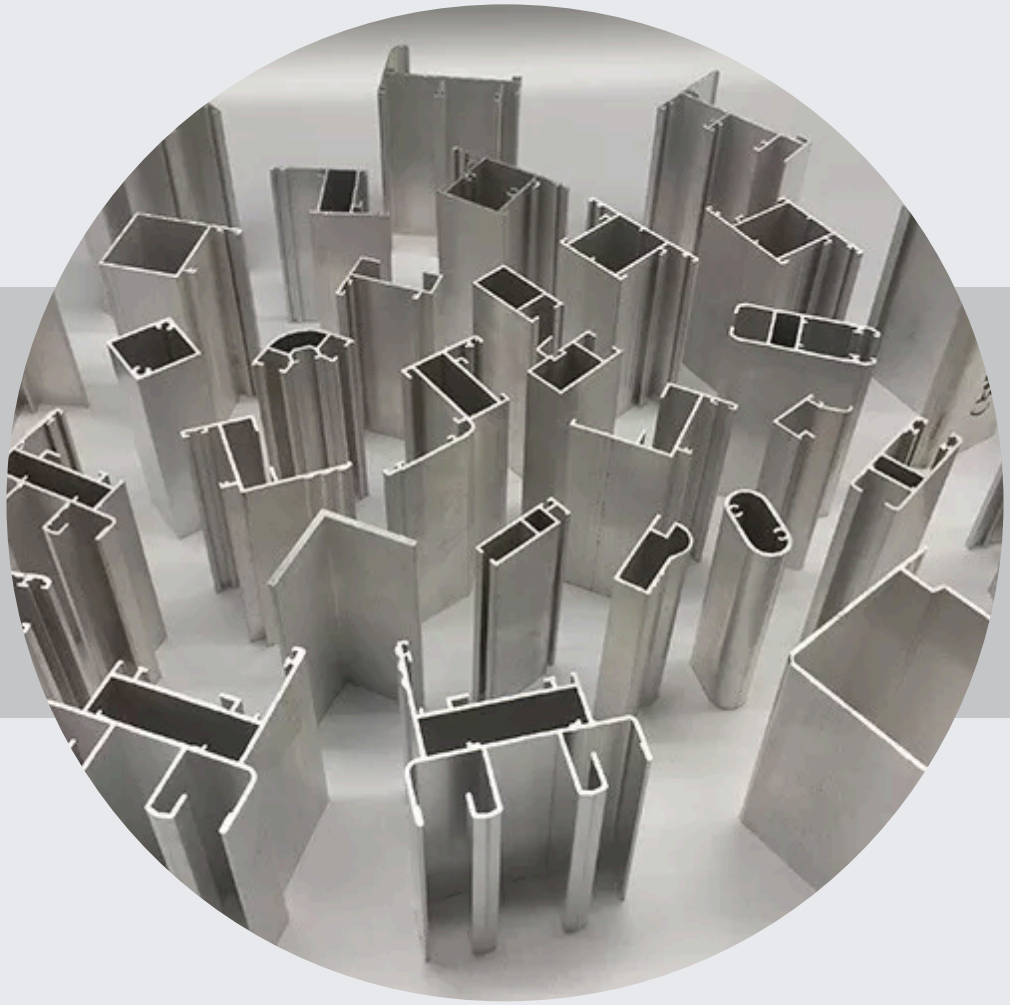

GENERAL CATALOGUE

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STANDARD SECTION 238

Technical Specifications

Materials

Aluminium Profiles:

All aluminium profiles are made of EN AW 6063 alloy in accordance with EN 755-1 or EN 12020-1, condition T5, T6. The alloy is resistant to corrosion and permits the production of high precision profiles according to EN 755-9.

Gaskets:

All rubber gaskets profiles are produced from ethylene-propylene rubber (EPDM) are used to seal infill units, window middle part in a hardness that suit its applications, ensuring condensate removal and frame-sash connection.

Accessories:

All systems are designed to use most of standard hardware. The hardware should be selected according to the minimum requirements mentioned in the system catalog.

Fixing elements:

All the connectors and fasteners used for profiles, accessories and hardware connection should be made from galvanized steel of stainless steel.

Surface treatment:

All exposed surfaces of the aluminium profiles is treated either by anodizing treatment (QUALANOD certified anodizing) or by electrostatic powder coating to meet international standards (QUALICOAT certified powder coating).

Technical Features

- In all systems there are varieties available in types and dimensions.
- Tolerances in weights and dimensions are according to standard EN 755-9, EN 12020-2 or ANSI H35.2-5.
- The profiles provide a large range of infill types and measures, due to the availability of different profile types and a wide range of gaskets sizes.
- Glazing gaskets inside and outside of E.P.D.M. all-around, gasket profiles visually are in the same level inside and outside to enhance the gasket visibility.
- General compatibility of profiles, accessories and gaskets to hence fewer system accessories and reduced warehouse inventory.
- Charts are available for each system and its profiles indicate allowable panel /sash sizes and the right profile regarding the effective moment of inertia, wind load and window's type to guarantee resistance avoiding any deformation greater than allowable deflection 1/200 of window span according to European Standard hEN 14351-1 under load 500 Pascal up to 1000 Pascal, and up to 2000 Pascal for curtain wall according to EN 13830, charts are available also if requested with deflection (1/175 max 19mm.) of window/façade span according to American Standard) AAMA/WDMA/CSA 101/I.S.2.
- Water resistance is confirmed to International standards, water tightness performance varies according to window type and system design with no water penetration under pressure up to 600 Pascal for sliding types, and not less than 900 Pascal for hinged window types and façade types.
- Air permeability performance varies according to window type and system design, air permeability at pressure 100 Pascal is not greater than 2.25 cubic meter per hour per meter length of opening joint for sliding systems, and not greater than 0.75 cubic meter per hour of opening joint for hinged window types and not greater than 1.5 cubic meter per hour for each square meter of façade types.

Powder Coating

ALWAN is one of the largest facilities in Egypt, in the field of electrostatic application of pure-polyester powder coatings as surface treatment, specifically designed to meet stringent requirements of the construction industry for architectural and industrial aluminum profiles.

We guarantee complete customer satisfaction on all our delivered products. Every production line has a fully equipped laboratory in order to meet all international quality specifications and standards as set by the QUALICOAT organization. The certifications of QUALICOAT , Quality Management ISO 9001 and Environmental Management ISO 14001, provide complete quality assurance. We ensure a full control over all the critical parameters concerning chemical pretreatment and the use of enhanced chemical pretreatment process, with high etching degree, in accordance to QUALICOAT specifications, as well as a full control on the painting processes and polymerization during the whole surface treatment procedure. Therefore, through a unique blending system, stringent quality assurance and compliance to measures, consistent quality during the production process is guaranteed.

The application of the above-mentioned steps will assist along the line with the overall excellent properties and the longevity of the color, providing an attractive finish to the projects and building components by ensuring gloss retention, color stability and corrosion protection.

Available Colors

In regards to the colors, they are available in RAL Gloss & RAL matt. The gloss affects how the eye perceives color so some slight variations in the finish may occur. In addition to that, the coating provides a wide range of custom-made colors that gives a variety of effects, including metallic effects.

Most of the colors are available in standard durable and some are available in super durable, which complies with advanced levels of weather resistance, gloss and color retention, and corrosion resistance, when compared to the standard durable specification.

Color customization to our standard products may be available on a request basis, with unlimited options of powder coating. In this respect, Non-standard designs and applications can be reviewed to determine the feasibility on a project-specific basis.

Warranty

The warranty is subject to terms and conditions based on the geographical location & when used on an architectural aluminum substrate.

Standard Durable Class 1: Up to 10 years

Super Durable Class 2: Up to 25 years

Notes:

• As the products are very often used under conditions beyond supplier's control, we cannot guarantee anything but the quality of the product itself.

• It is expected that any fading and/or chalking and/or change in gloss retention, either uniform or non-uniform that a color will experience in the field will result in the falling within acceptable range as specified in the Qualicoat specification standards.

*QUALICOAT is a quality label organization committed to maintaining and promoting the quality of lacquering, painting and coating on aluminum and its alloys, for architectural applications.

CERTIFICATE

for a **COATING APPLICATOR**

QUALICOAT

hereby authorises

to use the quality label in conformity with the
QUALICOAT 2025 Specifications, applicable from 1 January 2025

Licence No.:	**1609**
Date of Granting:	**06.05.2021**
Valid until:	**31.12.2025**

Zurich, 1 January 2025

QUALICOAT

Ivo Vermeeren
President

Coby Armar
Secretary General

QUALICOAT | Tödistrasse 48, 8002 Zurich, Switzerland | **www.qualicoat.net**

INTERCERT

CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that Quality Management System of

Has been successfully assessed as per the requirements of

ISO 9001:2015

For the scope of

Trading, Treatment and Painting of Aluminum Profile

Initial Certification Date:	07-06-2021
Certificate Issue Date:	07-06-2021
Surveillance Validity Date:	06-06-2022
Recertification Date:	06-06-2024

Registration Number: IC-QM-2106051

Issued on behalf of InterCert
Head - Certifications

The validity of this certificate can be verified at **www.intercert.com** or through email at **info@intercert.com**. This certificate is the property of INTERCERT and must be returned on request. Accreditation details are available with IAS, (International Accreditation Services) Inc. USA at **www.iasonline.org**

INTERCERT

CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Environmental Management System of

Has been successfully assessed as per the requirements of

ISO 14001:2015

For the scope of

Trading, Treatment and Painting of Aluminum Profile

Initial Certification Date:	07-06-2021
Certificate Issue Date:	07-06-2021
Surveillance Validity Date:	06-06-2022
Recertification Date:	06-06-2024

Registration Number: IC-EM-2106052

Issued on behalf of InterCert
Head - Certifications

The validity of this certificate can be verified at **www.intercert.com** or through email at **info@intercert.com**. This certificate is the property of INTERCERT and must be returned on request. Accreditation details are available with IAS, (International Accreditation Services) Inc. USA at **www.iasonline.org**

INTERCERT

CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Occupational Health & Safety Management System of

Has been successfully assessed as per the requirements of

ISO 45001:2018

For the scope of

Trading, Treatment and Painting of Aluminum Profile

Initial Certification Date:	07-06-2021
Certificate Issue Date:	07-06-2021
Surveillance Validity Date:	06-06-2022
Recertification Date:	06-06-2024

Registration Number: IC-OS-2106053

Issued on behalf of InterCert
Head - Certifications

The validity of this certificate can be verified at **www.intercert.com** or through email at **info@intercert.com**. This certificate is



Interpon.
POWDER COATINGS

AkzoNobel

Interpon D Approved Applicator

Series D1000

Has fulfilled AkzoNobel's tests and inspection regarding the pre-treatment, application, quality management standards and procedures, and complies with the requirements of the Architectural Range Approved Applicator schedule.

This certificate is effective from
12th October 2022 to 11th October 2023

Approved for Aluminium Alloys: AA6060

Approved for Pre-treatment Type: Chrome

AKZO NOBEL
Powder Coatings SAE
Industrial Zone No.4
6th Of October City, Egypt
Tel: +202 8331415 - 8335028
Fax: +202 39330368

Wael Mahmoud
Sales and Marketing Manager
North Africa & Levant

12/10/2022

AkzoNobel Industrial Paints



Interpon.
POWDER COATINGS

AkzoNobel

Interpon D Approved Applicator

Series D2000

Has fulfilled AkzoNobel's tests and inspection regarding the pre-treatment, application, quality management standards and procedures, and complies with the requirements of the Architectural Range Approved Applicator schedule.

This certificate is effective from
12th October 2022 to 11th October 2023

Approved for Aluminium Alloys: AA6060

Approved for Pre-treatment Type: Chrome

AKZO NOBEL
Powder Coatings SAE
Industrial Zone No.4
6th Of October City, Egypt
Tel: +202 8331415 - 8335028
Fax: +202 39330368

Wael Mahmoud
Sales and Marketing Manager
North Africa & Levant

12/10/2022

AkzoNobel Industrial Paints



JOTUN

Certificate of Approval

is certified as an Approved Applicator to coat

Jotun SuperDurable

a product from Jotun Powder Coatings

This Company fulfils the requirements set by Jotun Powder Coatings for pre-treatment and application of powder coatings. These include having the necessary equipment, process controls and technical knowledge to comply with Jotun Powder Coatings' standards.

December 31, 2025
(Certificate valid until above date)

Authorised Signatory
Jotun Powder Coatings UAE (LLC)



JOTUN

Certificate of Approval

is certified as an Approved Applicator to coat

Jotun Durasol

a product from Jotun Powder Coatings

This Company fulfils the requirements set by Jotun Powder Coatings for pre-treatment and application of powder coatings. These include having the necessary equipment, process controls and technical knowledge to comply with Jotun Powder Coatings' standards.

December 31, 2025
(Certificate valid until above date)

Authorised Signatory
Jotun Powder Coatings UAE (LLC)

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
10401100	Frame Profile	0.667	254	5.57	3.40	63
10401130	Frame Profile	0.875	369	7.88	9.42	63
10401131	Frame Profile	0.918	369	10.62	9.56	63
10401132	Frame Profile	0.937	381	10.44	11.45	63
10401150	Frame Profile	0.834	408	18.89	7.87	64
10401152	Frame Profile	1.055	442	12.75	25.48	64
10401153	Frame Profile	1.034	457	12.29	24.96	64
10401200	Frame Profile	0.813	287	7.59	9.17	64
10401420	Frame Profile	0.953	373	9.83	7.33	65
10402062	Frame Profile	0.940	355	11.20	6.06	65
10404010	Leaf Profile	0.832	344	7.34	6.75	65
10404020	Leaf Profile	0.978	377	9.31	15.29	65
10404143	Leaf Profile	0.813	340	6.46	7.09	66
10404153	Leaf Profile	0.739	327	6.66	6.64	66
10404210	Leaf Profile	0.832	344	7.34	6.75	66
10404220	Leaf Profile	0.978	377	8.74	15.28	66
10405120	Transom Profile	1.030	377	8.55	15.83	66
10405130	Transom Profile	1.493	501	15.19	101.08	67
10405330	Bottom rail	1.647	540	17.46	121.74	67
10406170	Glass Beading Profile	0.230	153	0.62	0.55	68
10406230	Glass Beading Profile	0.245	161	0.83	0.64	68
10409430	Insert Profile	0.494	265	3.71	2.02	68
10409610	Insert Profile	0.875	319	7.19	6.80	68
10411130	Frame Profile	0.777	330	7.06	8.35	56
10411150	Frame Profile	0.874	392	8.07	19.37	56
10411153	Frame Profile	0.935	428	11.13	23.47	56
10411200	Frame Profile	0.708	273	6.12	6.17	57
10411250	Frame Profile	0.948	412	9.07	26.24	56
10411421	Frame Profile	0.909	365	9.30	7.21	57
10412051	Frame Profile	0.819	307	9.63	3.83	57
10412061	Frame Profile	0.875	323	12.95	3.97	57
10412071	Frame Profile	0.939	343	18.62	4.14	57
10414110	Leaf Profile	0.720	320	5.51	6.34	58
10414119	Leaf Profile	0.801	364	9.12	6.98	58
10414120	Leaf Profile	0.771	340	7.11	9.18	58
10414143	Leaf Profile	0.830	323	6.56	7.56	58
10414153	Leaf Profile	0.797	324	6.73	6.76	59
10414210	Leaf Profile	0.706	320	5.72	5.36	59
10414220	Leaf Profile	0.771	340	6.66	9.18	59
10415120	Transom Profile	0.905	343	7.36	13.54	59
10415130	Transom Profile	1.360	471	13.67	92.43	60
10415330	Bottom Profile	1.482	528	15.25	111.20	60
10416120	Glass Beading Profile	0.263	172	0.68	0.54	60
10416160	Glass Beading Profile	0.204	138	0.29	0.46	60

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
10419610	Insert Profile	0.820	332	6.61	5.00	59
10451100	Frame Profile	0.764	264	7.75	3.66	25
10451110	Frame Profile	0.792	280	7.58	3.76	25
10451130	Frame Profile	0.966	370	10.50	9.20	25
10451131	Frame Profile	1.017	384	14.25	9.26	25
10451132	Frame Profile	1.040	390	13.93	11.91	26
10451138	Frame Profile	1.015	374	13.09	10.98	26
10451150	Frame Profile	1.099	430	12.49	21.80	26
10451152	Frame Profile	1.158	440	16.78	26.17	26
10451153	Frame Profile	1.196	467	18.45	29.01	27
10451157	Frame Profile	1.100	436	12.41	21.51	27
10451170	Frame Profile	1.172	462	13.40	34.86	27
10451200	Frame Profile	1.042	318	11.63	13.80	35
10451230	Frame Profile	1.220	410	14.50	23.86	35
10451420	Frame Profile	1.064	382	12.78	8.07	28
10451520	Frame Profile	1.320	422	18.10	23.07	28
10451810	Frame Profile	0.749	257	3.66	7.42	28
10451850	Frame Profile	1.097	433	21.82	10.46	27
10452062	Frame Profile	0.995	357	12.24	6.13	28
10452082	Frame Profile	1.345	448	32.92	7.18	29
10452102	Frame Profile	1.539	492	60.09	8.06	29
10452122	Frame Profile	1.612	509	87.32	8.26	30
10452152	Frame Profile	2.100	609	171.52	9.42	30
10452672	Frame Profile	1.523	398	26.75	7.06	31
10452682	Frame Profile	1.592	418	36.12	7.39	31
10453230	Frame Profile	1.155	369	13.86	21.70	32
10453238	Frame Profile	1.192	373	16.18	24.23	32
10453250	Frame Profile	1.226	416	15.05	37.85	32
10453258	Frame Profile	1.262	418	18.22	41.38	32
10453611	Frame Profile	1.428	464	27.88	11.34	33
10453616	Frame Profile	1.428	464	26.12	11.34	33
10453619	Frame Profile	1.835	525	63.12	16.94	33
10453623	Frame Profile	1.839	482	65.31	13.56	34
10453692	Frame Profile	1.792	504	65.31	17.54	34
10453700	Frame Profile	1.420	377	20.04	22.55	35
10453720	Frame Profile	1.478	414	19.19	24.76	35
10454040	Leaf Profile	1.080	345	10.75	9.65	36
10454100	Leaf Profile	0.929	330	12.51	6.02	36
10454112	Leaf Profile	0.986	357	12.94	7.52	36
10454119	Leaf Profile	0.996	362	13.20	7.83	36
10454121	Leaf Profile	1.297	401	16.72	16.91	37
10454122	Leaf Profile	1.223	405	17.14	17.27	37
10454129	Leaf Profile	1.149	399	15.92	14.89	37
10454143	Leaf Profile	1.177	364	14.05	11.12	37

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
10454147	Leaf Profile	1.187	374	14.34	11.66	38
10454153	Leaf Profile	1.126	364	14.51	9.78	38
10454157	Leaf Profile	1.144	373	15.26	10.46	38
10454163	Leaf Profile	1.395	384	19.18	16.59	38
10454181	Leaf Profile	1.253	378	16.67	16.09	39
10454182	Leaf Profile	1.167	378	15.98	16.07	39
10454220	Leaf Profile	1.064	363	12.21	17.54	39
10454240	Leaf Profile	1.129	351	11.30	11.77	39
10454250	Leaf Profile	1.090	351	11.67	10.72	39
10454320	Leaf Profile	1.438	451	19.38	29.53	40
10454370	Leaf Profile	0.918	336	9.15	6.72	40
10454610	Leaf Profile	1.080	329	12.97	17.34	40
10454620	Leaf Profile	1.080	329	12.47	17.34	40
10454652	Leaf Profile	1.210	367	18.20	21.18	41
10454754	Leaf Profile	1.638	434	23.87	42.27	41
10454764	Leaf Profile	1.639	434	23.00	42.27	41
10454790	Leaf Profile	1.778	413	23.42	38.67	41
10454793	Leaf Profile	1.754	416	22.13	36.66	42
10454794	Leaf Profile	1.764	418	22.47	37.59	42
10454810	Leaf Profile	1.086	323	12.92	16.08	42
10454820	Leaf Profile	1.491	359	17.29	33.51	42
10455010	Transom Profile	0.926	354	6.81	8.90	43
10455020	Transom Profile	1.144	373	19.14	11.54	43
10455120	Transom Profile	1.242	393	12.03	19.30	43
10455130	Transom Profile	1.890	512	21.97	123.61	44
10455140	Transom Profile	2.163	572	27.62	222.27	44
10455170	Transom Profile	1.204	355	9.29	17.71	45
10455190	Transom Profile	1.204	355	14.79	10.39	45
10455330	Bottom Rail Profile	1.987	549	143.19	24.28	46
10455340	Bottom Rail Profile	2.268	609	250.72	29.89	46
10455520	Transom Profile	1.768	469	47.79	29.84	43
10456110	Glass Beading Profile	0.289	173	1.02	0.68	47
10456130	Glass Beading Profile	0.270	163	0.75	0.65	47
10456140	Glass Beading Profile	0.262	159	0.64	0.62	47
10456142	Glass Beading Profile	0.246	148	0.55	0.56	47
10456145	Glass Beading Profile	0.240	145	0.44	0.56	47
10456160	Glass Beading Profile	0.251	152	0.40	0.59	47
10456180	Glass Beading Profile	0.211	138	0.28	0.51	47
10456182	Glass Beading Profile	0.206	126	0.24	0.42	47
10456290	Glass Beading Profile	0.227	118	0.17	0.58	47
10456292	Glass Beading Profile	0.186	91	0.16	0.38	47
10457181	Frame Profile	1.515	502	44.88	12.04	31
10459010	Insert Profile	0.116	84	0.30	0.02	48
10459110	Insert Profile	0.540	242	4.78	1.01	48

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
10459120	Insert Profile	0.356	187	0.46	1.20	48
10459140	Insert Profile	0.629	239	5.20	1.04	48
10459210	Insert Profile	0.221	102	0.89	0.06	48
10459240	Insert Profile	1.031	283	10.85	4.97	48
10459410	Insert Profile	0.824	285	7.64	5.29	49
10459420	Insert Profile	0.807	282	7.52	5.23	49
10459430	Insert Profile	0.540	278	4.97	2.03	48
10459440	Insert Profile	0.541	260	3.68	0.58	50
10459510	Insert Profile	1.045	345	11.99	17.10	49
10459520	Insert Profile	1.242	387	14.74	34.62	49
10459521	Insert Profile	1.199	379	14.69	34.63	49
10459570	Insert Profile	0.359	177	2.18	0.10	50
10459610	Insert Profile	0.853	310	8.32	5.14	50
10459620	Insert Profile	0.670	199	5.09	2.24	50
10459630	Insert Profile	0.902	268	7.06	3.80	50
10459810	Insert Profile	0.591	174	3.60	0.50	50
10459910	Control Rod	0.146	48	0.19	0.01	50
10459920	Control Rod	0.113	41	0.09	0.00	50
10611100	Frame Profile	1.103	345	18.37	6.20	5
10611110	Frame Profile	1.031	341	18.36	5.75	5
10611130	Frame Profile	1.245	426	23.65	12.10	5
10611138	Frame Profile	1.315	449	29.93	13.80	5
10611150	Frame Profile	1.387	490	27.49	25.59	6
10611152	Frame Profile	1.451	518	34.46	30.88	6
10611153	Frame Profile	1.474	534	36.80	33.80	6
10611158	Frame Profile	1.431	506	35.25	28.58	6
10611200	Frame Profile	1.291	407	25.74	21.04	7
10611210	Frame Profile	1.270	404	25.76	20.57	7
10611300	Frame Profile	1.342	414	28.27	32.36	7
10611320	Frame Profile	1.459	464	30.33	39.34	7
10611810	Frame Profile	1.122	362	18.02	6.25	8
10612082	Frame Profile	1.437	459	36.25	9.05	8
10612088	Frame Profile	1.577	521	37.87	21.24	10
10612103	Frame Profile	1.719	434	71.20	17.15	8
10613000	Frame Profile	1.248	409	21.17	16.82	9
10613010	Frame Profile	1.290	431	21.64	17.35	9
10613030	Frame Profile	1.403	500	27.93	25.00	9
10613038	Frame Profile	1.458	513	34.61	27.20	9
10613050	Frame Profile	1.510	549	31.90	40.83	10
10613052	Frame Profile	1.593	581	40.00	47.38	10
10614122	Leaf Profile	1.585	459	37.46	23.84	11
10614140	Leaf Profile	1.549	408	30.78	14.22	11
10614150	Leaf Profile	1.474	421	30.37	12.15	11
10614220	Leaf Profile	1.454	468	28.75	27.64	11

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
10614410	Leaf Profile	1.108	343	17.96	8.56	12
10614430	Leaf Profile	1.211	343	17.41	7.81	12
10614460	Leaf Profile	1.356	360	22.36	9.95	12
10614480	Leaf Profile	1.269	359	21.13	8.53	12
10614517	Leaf Profile	1.013	316	6.73	8.94	13
10614527	Leaf Profile	0.952	308	6.72	8.05	13
10614567	Leaf Profile	1.049	334	7.85	10.04	13
10614587	Leaf Profile	1.154	362	9.60	19.61	13
10614597	Leaf Profile	1.071	381	9.51	17.10	13
10614759	Leaf Profile	2.258	459	32.72	66.66	14
10614769	Leaf Profile	2.258	459	31.60	66.66	14
10614959	Leaf Profile	1.715	414	24.99	32.61	14
10614969	Leaf Profile	1.715	414	23.70	32.61	14
10615020	Transom Profile	1.372	469	26.23	26.58	15
10615110	Transom Profile	1.264	426	21.97	10.73	15
10615120	Transom Profile	1.515	469	28.59	27.88	15
10615130	Transom Profile	1.773	529	36.76	74.90	15
10615140	Transom Profile	2.204	627	49.97	217.19	16
10615340	Transom Profile	2.295	650	54.93	255.60	16
10615710	Transom Profile	1.353	479	22.62	19.29	17
10615720	Transom Profile	1.600	518	29.32	36.97	17
10615760	Transom Profile	1.623	553	27.87	41.08	18
10615910	Transom Profile	2.025	558	67.31	31.03	18
10616140	Glass Beading Profile	0.402	235	2.58	1.24	19
10616160	Glass Beading Profile	0.370	221	2.04	1.18	19
10616170	Glass Beading Profile	0.337	204	1.17	1.08	19
10616180	Glass Beading Profile	0.324	197	0.93	1.04	19
10616190	Glass Beading Profile	0.311	189	0.55	0.97	19
10616192	Glass Beading Profile	0.296	181	0.42	0.90	19
10616193	Glass Beading Profile	0.268	164	0.32	0.77	19
10616195	Glass Beading Profile	0.211	102	0.21	0.63	19
10616500	Glass Beading Profile	0.142	71	0.07	0.15	19
10619110	Insert Profile	0.769	349	13.05	2.16	20
10619120	Insert Profile	0.329	173	0.42	0.79	20
10619211	Insert Profile	0.773	256	8.47	2.75	20
10619253	Insert Profile	0.751	262	2.44	8.04	20
10619352	Transom Profile	1.112	346	7.62	19.50	20
10619410	Insert Profile	0.518	159	3.63	0.97	20
10619510	Insert Profile	0.703	323	10.02	4.08	20
10619530	Insert Profile	1.200	377	23.46	11.85	20
10619610	Insert Profile	1.345	399	23.12	9.97	21
10619620	Insert Profile	0.707	246	3.63	2.68	21
10619670	Insert Profile	1.650	524	28.38	32.92	21
10619702	Transom Profile	1.595	438	25.51	48.84	22

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
10619810	Glass Beading Profile	0.439	246	0.85	2.99	21
10619820	Insert Profile	0.399	135	0.81	1.10	21
10619830	Insert Profile	0.161	71	0.08	0.11	21
20551310	Frame Profile	0.816	352	10.73	3.74	141
20551330	Frame Profile	0.936	427	13.89	9.04	141
20551336	Frame Profile	0.926	426	13.70	8.88	141
20551356	Frame Profile	1.039	568	27.02	22.46	141
20551410	Frame Profile	0.971	427	19.60	4.23	142
20551436	Frame Profile	1.088	502	24.01	9.83	142
20551450	Frame Profile	1.199	569	27.09	22.64	142
20551456	Frame Profile	1.194	568	27.02	22.46	142
20551900	Frame Profile	1.607	634	93.76	7.08	144
20552410	Frame Profile	0.978	436	19.71	3.73	143
20552420	Frame Profile	1.038	460	19.85	3.95	143
20552430	Frame Profile	1.114	526	24.62	9.52	143
20552450	Frame Profile	1.246	574	27.92	21.98	143
20554210	Leaf Profile	0.608	313	1.93	6.78	144
20554216	Leaf Profile	0.600	307	1.87	6.65	144
20554416	Leaf Profile	0.745	342	4.01	6.99	144
20555210	Transom Profile	0.628	238	1.17	6.90	144
20559510	Insert Profile	0.254	151	0.58	0.97	144
20559610	Insert Profile	0.232	88	0.23	0.46	144
20601020	Frame Profile	1.037	330	10.44	7.12	127
20601130	Frame Profile	1.320	484	28.01	14.78	127
20601150	Frame Profile	1.453	528	31.11	31.70	127
20601320	Frame Profile	1.229	412	18.24	8.16	127
20601330	Frame Profile	1.272	455	20.03	15.50	128
20601350	Frame Profile	1.391	519	21.75	31.24	128
20601420	Frame Profile	1.469	501	35.48	9.09	128
20601430	Frame Profile	1.550	590	41.15	17.19	129
20601432	Frame Profile	1.650	617	46.59	20.64	129
20601450	Frame Profile	1.663	609	43.93	33.94	128
20601452	Frame Profile	1.750	629	51.41	41.11	129
20601553	Frame Profile	1.760	719	61.06	39.03	129
20601820	Frame Profile	1.725	580	65.74	13.13	130
20601920	Frame Profile	2.315	772	170.87	13.81	130
20601930	Frame Profile	2.457	849	190.51	22.33	130
20602120	Frame Profile	1.279	444	24.48	7.38	131
20602320	Frame Profile	1.173	450	17.47	7.02	131
20602352	Frame Profile	1.498	610	26.66	36.27	132
20602400	Frame Profile	1.419	542	36.27	8.13	132
20602403	Frame Profile	1.404	508	36.75	8.52	132
20602410	Frame Profile	1.394	524	35.68	7.79	133
20602420	Frame Profile	1.422	540	34.43	8.05	133

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
20602432	Frame Profile	1.623	653	45.80	19.41	134
20602450	Frame Profile	1.645	645	44.00	32.83	133
20602452	Frame Profile	1.725	666	51.31	39.88	133
20602453	Frame Profile	1.718	686	51.26	38.85	132
20602520	Frame Profile	1.570	580	46.96	9.30	134
20602820	Frame Profile	1.683	620	53.33	9.51	134
20602920	Frame Profile	2.320	810	168.42	12.41	131
20604110	Leaf Profile	0.942	409	4.47	12.66	135
20604113	Leaf Profile	0.965	402	4.37	12.60	135
20604220	Leaf Profile	0.883	371	4.36	10.68	135
20604310	Leaf Profile	1.169	460	10.62	14.58	136
20604420	Leaf Profile	1.107	417	10.41	13.11	136
20604510	Leaf Profile	1.060	430	5.18	20.05	135
20604613	Leaf Profile	1.048	423	5.07	19.93	135
20604620	Leaf Profile	1.000	387	5.10	17.36	135
20605110	Transom Profile	0.813	297	1.96	10.73	136
20605220	Transom Profile	0.861	274	4.11	9.78	136
20609210	Insert Profile	0.102	47	0.02	0.02	137
20609220	Insert Profile	0.088	45	0.01	0.02	137
20609510	Insert Profile	0.316	173	0.96	1.55	137
20609520	Insert Profile	0.358	191	1.01	2.38	137
20609610	Insert Profile	0.400	150	1.24	0.66	137
20609620	Insert Profile	0.252	61	0.20	0.31	137
20609710	Insert Profile	0.531	139	1.10	1.64	137
20609910	Control Rod	0.164	92	0.21	0.08	137
20702110	Frame profile	0.957	387	21.91	3.72	120
20702308	Frame profile	0.962	382	19.08	3.85	120
20702330	Frame profile	1.104	461	22.85	8.96	120
20702350	Frame profile	1.210	520	25.42	20.34	120
20702408	Frame profile	1.133	461	34.47	4.46	121
20702418	Frame profile	1.174	479	35.24	4.58	121
20702450	Frame profile	1.369	585	45.02	21.87	122
20702710	Frame profile	1.748	658	116.71	6.50	122
20704116	Leaf profile	0.896	429	4.72	15.34	123
20704210	Leaf profile	0.905	435	4.98	16.60	123
20704216	Leaf profile	0.853	405	4.62	14.45	123
20704220	Leaf profile	0.868	408	4.91	14.79	123
20704226	Leaf profile	0.856	378	4.50	12.71	123
20704410	Leaf Profile	1.168	487	12.19	18.52	124
20704416	Leaf profile	1.115	457	11.77	15.96	124
20704420	Leaf Profile	1.131	459	12.06	17.05	124
20704426	Leaf profile	1.081	429	11.56	14.56	124
20705210	Transom Profile	0.714	271	2.29	8.48	123
20709510	Insert profile	0.327	194	1.12	1.90	123

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
20802220	Frame Profile	1.291	527	5.27	27.56	115
20802420	Frame Profile	1.709	519	14.19	43.63	115
20802620	Frame Profile	1.864	742	7.41	89.74	115
20803220	Frame Profile	0.888	421	1.33	25.07	116
20803420	Frame Profile	0.775	372	0.97	23.47	116
20803620	Leaf Profile	1.020	464	1.08	67.85	117
20804110	Leaf Profile	0.859	324	5.58	10.86	117
20804220	Leaf Profile	0.797	293	5.42	8.96	117
20804310	Leaf Profile	0.851	259	5.99	6.24	117
20804420	Leaf Profile	0.791	230	6.00	5.04	117
20804510	Leaf Profile	0.778	375	8.25	3.77	117
20804620	Leaf Profile	0.713	346	6.69	3.56	117
20805210	Transom Profile	1.013	317	18.49	4.48	117
20805220	Transom Profile	0.877	260	12.73	4.06	117
20809240	Insert Profile	0.156	82	0.00	0.00	116
20809610	Insert Profile	0.297	127	0.67	0.26	116
20842337	Frame Profile	1.779	641	50.79	19.82	105
20842407	Frame Profile	1.892	654	67.79	14.41	105
20842420	Frame Profile	1.931	678	68.14	14.71	106
20842428	Frame Profile	1.938	682	68.80	14.91	106
20842430	Frame Profile	1.993	719	75.60	21.41	107
20842437	Frame Profile	2.022	727	77.62	21.84	107
20842457	Frame Profile	2.157	798	86.02	39.47	108
20842520	Frame Profile	1.978	675	82.08	14.94	108
20842820	Frame Profile	2.283	785	133.05	17.30	109
20842928	Frame Profile	2.935	1011	291.66	22.59	109
20844117	Leaf Profile	1.115	445	6.97	21.00	110
20844118	Leaf Profile	1.131	447	7.21	21.79	110
20844130	Leaf Profile	1.073	423	7.13	19.23	110
20844217	Leaf Profile	1.091	432	6.86	20.45	110
20844220	Leaf Profile	1.060	412	7.10	18.77	110
20844227	Leaf Profile	1.066	420	6.99	18.94	110
20844228	Leaf Profile	1.073	421	7.05	19.20	111
20844417	Leaf Profile	1.485	530	21.03	22.64	111
20844427	Leaf Profile	1.437	486	20.85	19.88	111
20844610	Leaf Profile	1.033	437	6.56	15.65	112
20844630	Leaf Profile	0.920	392	6.27	12.84	112
20844660	Leaf Profile	0.690	252	4.00	4.02	112
20844680	Leaf Profile	0.607	207	3.71	2.95	112
20847020	Leaf Profile	0.613	199	4.67	1.06	112
20847330	Leaf Profile	1.268	285	37.00	3.95	112
20849100	Insert Profile	0.769	355	11.31	0.89	111
20849210	Insert Profile	0.165	0	0.00	0.00	111
20849517	Insert Profile	0.502	0	0.00	0.00	111

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
20849530	Insert Profile	0.449	225	2.41	0.00	112
20849570	Insert Profile	0.340	174	0.53	0.00	112
20849610	Insert Profile	0.386	191	0.94	0.56	111
20849820	Insert Profile	0.231	138	0.18	0.00	112
20849830	Insert Profile	0.319	197	1.50	0.00	112
21001020	Frame Profile	1.504	440	33.37	15.41	85
21001130	Frame Profile	1.667	562	55.42	23.47	85
21001320	Frame Profile	1.781	536	55.32	17.54	86
21001350	Frame Profile	2.025	642	63.39	43.89	87
21001352	Frame Profile	2.098	663	71.33	51.75	87
21001420	Frame Profile	2.014	620	81.82	19.15	86
21001450	Frame Profile	2.263	726	95.50	46.87	88
21001452	Frame Profile	2.279	747	105.80	55.25	88
21001520	Frame Profile	2.135	622	99.71	20.07	89
21001552	Frame Profile	2.456	757	132.82	55.03	89
21002020	Frame Profile	1.527	460	32.98	13.06	90
21002120	Frame Profile	1.883	543	55.86	15.67	90
21002150	Frame Profile	2.097	642	70.54	43.62	92
21002300	Frame Profile	1.646	525	52.15	13.82	90
21002320	Frame Profile	1.772	559	54.84	15.17	91
21002352	Frame Profile	2.041	686	71.13	48.30	93
21002400	Frame Profile	1.939	608	80.98	16.12	91
21002420	Frame Profile	2.006	642	81.08	16.93	91
21002432	Frame Profile	2.155	719	96.85	29.85	92
21002450	Frame Profile	2.197	749	95.51	44.19	93
21002452	Frame Profile	2.271	769	105.35	52.05	94
21002453	Frame Profile	2.241	782	102.61	51.12	94
21002470	Frame Profile	2.297	780	100.32	65.78	95
21002520	Frame Profile	2.147	675	100.45	18.14	95
21002720	Frame Profile	3.052	859	320.19	29.70	96
21002820	Frame Profile	2.419	745	155.84	20.18	96
21004110	Leaf Profile	1.366	517	11.17	31.90	97
21004113	Leaf Profile	1.339	502	10.81	29.70	97
21004120	Leaf Profile	1.280	471	10.80	27.12	97
21004141	Leaf Profile	1.253	449	9.98	25.34	98
21004214	Leaf Profile	1.346	512	10.49	30.48	97
21004220	Leaf Profile	1.279	465	10.87	26.82	97
21004224	Leaf Profile	1.265	467	10.36	26.22	97
21004414	Leaf Profile	1.694	578	26.51	32.35	98
21004424	Leaf Profile	1.613	533	26.19	28.71	98
21004518	Leaf Profile	1.435	520	11.12	31.78	100
21004528	Leaf Profile	1.334	470	10.88	26.80	100
21004630	Leaf Profile	1.336	457	10.94	26.30	100
21004718	Leaf Profile	1.789	586	27.48	33.58	100

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
21004818	Leaf Profile	1.760	575	27.15	32.75	101
21004828	Leaf Profile	1.689	536	26.95	29.54	101
21005110	Transom Profile	1.199	365	4.84	29.41	98
21005140	Transom Profile	1.069	318	6.82	21.25	98
21006120	Glass Beading Profile	0.205	107	0.00	0.00	99
21006180	Glass Beading Profile	0.149	74	0.00	0.00	99
21009210	Insert Profile	0.140	0	0.00	0.00	99
21009220	Insert Profile	0.169	0	0.00	0.00	101
21009230	Insert Profile	0.092	65	0.07	0.03	99
21009510	Sliding Insert Profile	0.654	306	4.82	5.72	99
21009514	Sliding Insert Profile	0.584	274	3.30	4.56	99
21009518	Sliding Insert Profile	0.594	280	3.33	4.69	101
21009560	Sliding Insert Profile	1.352	541	19.54	65.33	99
21009610	Sliding Insert Profile	0.572	159	2.10	1.74	99
21009620	Sliding Insert Profile	0.522	155	1.69	1.50	101
21009910	Control Rod Profile	0.292	146	0.00	0.00	99
21202010	Frame Profile	2.098	526	73.38	16.51	71
21202110	Frame Profile	2.562	598	114.42	19.43	71
21202200	Frame Profile	2.480	610	136.19	18.64	72
21202210	Frame Profile	2.540	640	140.54	19.26	72
21202300	Frame Profile	2.272	593	95.21	17.98	73
21202410	Frame Profile	2.674	713	159.87	20.39	73
21202520	Frame Profile	2.730	726	171.62	21.35	74
21202620	Frame Profile	3.192	770	263.75	24.32	74
21204110	Leaf Profile	1.615	519	15.48	33.07	75
21204120	Leaf Profile	1.550	480	15.34	28.75	75
21204130	Leaf Profile	1.520	475	15.31	28.25	75
21204230	Leaf Profile	1.504	464	15.21	27.49	75
21204310	Leaf Profile	2.443	622	79.26	36.40	77
21204330	Leaf Profile	2.347	577	77.38	31.88	77
21204510	Leaf Profile	1.378	489	13.15	24.53	78
21204520	Leaf Profile	1.260	436	12.90	20.71	78
21204530	Leaf Profile	1.236	409	12.56	19.26	78
21204540	Leaf Profile	1.289	391	11.94	20.95	78
21204570	Leaf Profile	0.978	296	9.00	6.86	78
21204580	Leaf Profile	0.954	272	8.81	6.31	78
21204721	Leaf Profile	1.485	484	21.94	20.41	79
21206240	Leaf Profile	0.188	104	0.15	0.30	79
21207020	Leaf Profile	0.805	233	9.60	1.57	79
21207120	Leaf Profile	1.000	252	15.85	2.33	79
21207320	Leaf Profile	1.452	320	54.82	4.56	79
21208304	Leaf Profile	1.759	426	50.98	11.70	80
21208404	Leaf Profile	1.246	354	31.64	4.29	80
21208414	Leaf Profile	1.848	426	69.66	17.93	80

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
21209210	Insert Profile	0.196	84	0.17	0.15	76
21209220	Insert Profile	0.150	79	0.16	0.10	76
21209240	Insert Profile	0.189	94	0.18	0.09	76
21209250	Insert Profile	0.077	40	0.01	0.02	76
21209310	Insert Profile	0.456	164	1.22	1.18	81
21209320	Insert Profile	0.203	98	0.15	0.68	81
21209410	Insert Profile	0.599	256	5.82	2.97	81
21209510	Insert Profile	0.560	239	0.26	5.98	76
21209520	Insert Profile	0.240	132	2.26	0.03	76
21209530	Insert Profile	0.664	337	5.20	8.59	76
21209570	Insert Profile	0.500	221	4.71	1.20	80
21209580	Insert Profile	0.278	129	0.18	0.71	80
21209610	Insert Profile	0.562	229	2.66	1.08	76
21209820	Insert Profile	0.247	153	1.93	0.26	80
21209830	Insert Profile	0.309	190	1.85	0.45	80
21209950	Insert Profile	0.364	91	0.47	0.06	81
21223300	Frame Profile	2.736	757	220.78	22.30	81
21223500	Frame Profile	3.097	797	302.50	32.95	81
30521106	Mullion Profile	1.799	432	34.70	20.46	161
30521108	Mullion Profile	2.204	491	81.13	28.14	161
30521111	Mullion Profile	2.808	541	182.52	38.52	161
30521113	Mullion Profile	3.620	591	372.49	49.16	162
30521116	Mullion Profile	3.969	641	564.74	56.53	162
30521118	Mullion Profile	4.438	689	839.38	68.31	163
30521121	Mullion Profile	4.966	739	1159.28	76.40	163
30521122	Mullion Profile	4.770	746	1110.73	82.42	164
30521124	Mullion Profile	5.262	796	1522.27	91.67	164
30521205	Mullion Profile	2.027	445	35.53	20.90	165
30521208	Mullion Profile	2.333	511	99.68	28.26	165
30521211	Mullion Profile	2.936	560	213.07	38.65	165
30521213	Mullion Profile	3.750	611	421.35	49.29	166
30521216	Mullion Profile	4.098	661	627.80	56.66	166
30521218	Mullion Profile	4.694	709	918.09	68.43	167
30521264	Mullion Profile	4.115	637	506.50	54.40	167
30521401	Transom Profile	0.896	307	1.49	6.59	168
30521404	Transom Profile	1.486	374	16.32	16.54	168
30521406	Transom Profile	1.571	403	30.44	18.98	168
30521408	Transom Profile	1.889	452	73.72	25.70	168
30521409	Transom Profile	1.982	471	94.81	27.85	169
30521411	Transom Profile	2.126	501	136.13	31.37	169
30521412	Transom Profile	2.225	521	166.29	33.53	170
30521413	Transom Profile	2.676	550	241.13	42.48	170
30521414	Transom Profile	2.472	572	265.42	39.31	171
30521415	Transom Profile	2.879	574	309.29	46.82	171

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
30521461	Transom Profile	2.035	496	121.02	29.74	172
30521504	Mullion Profile	1.686	399	24.58	16.68	172
30521506	Mullion Profile	1.749	423	41.49	19.11	172
30521508	Transom Profile	2.168	472	92.06	25.83	173
30521606	Transom Profile	1.350	350	29.50	16.60	173
30522206	Mullion Profile	3.024	562	163.83	24.20	174
30522208	Mullion Profile	3.347	612	275.61	31.31	174
30522413	Transom Profile	2.329	571	178.75	23.45	175
30523005	Mullion Profile	0.759	256	7.17	2.79	175
30523013	Mullion Profile	1.846	507	120.76	7.70	176
30523105	Mullion Profile	1.157	355	14.34	4.61	175
30523113	Mullion Profile	2.242	607	181.79	9.30	176
30523604	Mullion Profile	1.673	451	30.56	14.01	177
30523606	Mullion Profile	1.805	585	62.89	11.51	177
30523646	Mullion Profile	1.728	540	64.13	23.52	178
30523656	Mullion Profile	2.563	653	124.00	28.32	178
30524021	Expansion Profile	4.055	508	560.12	50.98	179
30524105	Expansion Profile	0.919	217	4.37	8.92	179
30524108	Expansion Profile	1.451	286	30.27	16.74	179
30524111	Expansion Profile	1.737	333	66.86	21.20	179
30524113	Expansion Profile	2.078	380	121.60	25.22	180
30524116	Expansion Profile	2.396	429	207.57	29.95	180
30524118	Expansion Profile	2.962	477	347.29	37.29	181
30524121	Expansion Profile	2.968	530	438.20	40.81	181
30524122	Expansion Profile	3.386	554	596.19	44.94	182
30524124	Expansion Profile	3.380	602	703.77	48.43	182
30524708	Expansion Profile	1.009	226	12.65	1.20	180
30525001	Pressure Plate	0.193	122	0.19	0.29	183
30525011	Pressure Plate	0.601	210	0.25	5.35	183
30525020	Cover Profile	0.477	112	0.02	3.16	183
30525021	Cover Profile	0.460	146	0.06	3.85	183
30525061	Pressure Plate	1.100	339	11.95	14.12	183
30525072	Pressure Plate	0.444	162	0.33	1.93	183
30525111	Cover Profile	1.150	421	3.90	25.97	183
30525131	Pressure Plate	1.176	434	1.98	52.21	183
30525201	Cover Profile	0.128	78	0.01	0.29	183
30525251	Cover Profile	0.394	199	0.25	5.17	184
30525253	Cover Profile	0.747	254	2.69	10.09	184
30525254	Cover Profile	0.820	274	5.75	11.89	184
30525261	Cover Profile	0.433	216	0.36	5.55	184
30525271	Cover Profile	0.254	127	0.14	1.34	184
30525352	Cover Profile	0.696	234	1.20	8.49	184
30525353	Cover Profile	0.780	254	3.18	10.40	184
30525363	Cover Profile	0.721	240	2.48	8.48	185

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
30525365	Cover Profile	0.815	274	7.81	11.29	185
30525366	Cover Profile	0.900	301	15.16	14.32	185
30525510	Cover Profile	1.441	374	46.56	15.57	185
30525511	Cover Profile	0.439	166	0.35	2.06	183
30525520	Cover Profile	2.150	542	247.00	25.81	186
30525914	Insert Profile	1.750	588	155.37	32.32	186
30526000	Glass Frame Profile	0.116	60	0.05	0.06	187
30526001	Frame Profile	0.251	113	0.22	0.31	187
30526002	Frame Profile	0.300	132	0.00	0.00	187
30526004	Frame Profile	0.485	168	0.00	0.00	187
30526012	Frame Profile	0.377	124	0.00	0.00	187
30526013	Frame Profile	0.421	132	0.00	0.00	187
30526023	Frame Profile	0.563	181	0.00	0.00	187
30526026	Frame Profile	0.663	250	2.74	4.00	187
30526042	Frame Profile	0.767	236	0.00	0.00	187
30526101	Frame Profile	0.535	228	0.00	0.00	187
30526111	Frame Profile	0.656	228	0.00	0.00	187
30526120	Insert Profile	1.003	307	24.43	4.42	188
30526121	Insert Profile	1.113	371	30.87	8.22	188
30526122	Insert Profile	0.826	324	16.58	4.37	188
30526126	Insert Profile	1.206	400	45.46	6.83	188
30526215	Leaf Profile	1.128	309	22.02	6.86	189
30526255	Leaf Profile	1.259	374	0.00	0.00	189
30526265	Leaf Profile	1.162	374	10.72	22.48	189
30526266	Leaf Profile	1.050	308	19.09	6.18	189
30526267	Leaf Profile	1.149	372	22.23	10.54	190
30526286	Leaf Profile	1.222	355	28.37	10.35	190
30526295	Frame Profile	1.537	349	14.10	16.12	191
30526298	Leaf Profile	1.745	373	22.37	34.65	191
30526313	Leaf Profile	1.025	282	11.55	6.31	190
30526333	Leaf Profile	1.186	343	19.20	9.43	190
30526346	Leaf Profile	1.459	410	47.25	10.79	191
30527123	Mullion Profile	2.602	537	89.60	47.69	192
30527133	Mullion Profile	2.529	552	100.68	56.33	192
30528013	Mullion Profile	1.763	488	123.00	3.55	193
30528208	Mullion Profile	2.103	565	105.35	15.95	194
30528213	Mullion Profile	2.696	679	240.50	13.14	193
30529164	Ending Profile	0.545	177	0.00	0.00	195
30529231	Ending Profile	1.303	576	0.70	111.77	194
30529232	Insert Profile	1.361	583	0.00	0.00	194
30529465	Insert Profile	0.489	210	0.00	0.00	195
30529466	Insert Profile	0.547	235	3.34	2.44	195
30529467	Insert Profile	0.587	241	6.10	1.60	195
30529495	Insert Profile	0.204	126	0.00	0.00	195

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
30529496	Insert Profile	0.594	286	0.00	0.00	195
30529510	Corner Profile	0.899	256	8.03	2.23	195
30529611	Spacer	0.189	85	0.12	0.09	195
30529612	Spacer	0.208	80	0.20	0.10	195
30529613	Spacer	0.312	114	0.71	0.44	195
30529623	Spacer	0.149	75	0.00	0.00	195
30529711	Insert Profile	0.339	164	0.00	0.00	195
30621206	Mullion Profile	2.741	505	75.90	36.82	147
30621207	Mullion Profile	2.981	535	122.79	43.03	147
30621209	Mullion Profile	3.221	565	186.11	49.24	148
30621210	Mullion Profile	3.540	595	278.64	56.27	148
30621212	Mullion Profile	3.910	635	430.69	65.10	149
30621215	Mullion Profile	4.253	695	682.70	75.91	149
30621504	Mullion Profile	2.103	446	36.80	25.43	150
30621506	Mullion Profile	2.252	476	60.29	30.32	150
30621507	Mullion Profile	2.435	506	94.66	36.28	150
30621509	Mullion Profile	2.592	536	136.91	41.17	150
30624006	Expansion Profile	1.469	249	11.30	19.66	151
30624007	Expansion Profile	2.017	276	29.71	29.63	151
30624009	Expansion Profile	2.357	304	56.47	37.00	151
30624010	Expansion Profile	2.570	331	88.92	42.35	151
30624012	Expansion Profile	2.965	373	146.78	50.70	152
30624015	Expansion Profile	3.431	433	268.27	60.96	152
30624612	Expansion Profile	0.227	98	0.00	0.00	156
30625011	Pressure Plate	0.719	229	0.00	0.00	153
30625121	Cover Profile	1.196	354	0.00	0.00	153
30625251	Leaf Profile	0.436	216	0.00	0.00	153
30625272	Leaf Profile	0.296	127	0.00	0.00	153
30625426	Leaf Profile	0.487	194	0.00	0.00	153
30626417	Leaf Profile	1.040	308	15.45	4.90	154
30626419	Leaf Profile	1.204	357	27.29	6.20	154
30626427	Leaf Profile	1.064	323	13.80	5.29	154
30626429	Leaf Profile	1.238	368	25.26	6.94	154
30626436	Leaf Profile	1.102	316	15.95	5.85	155
30626437	Leaf Profile	1.210	358	24.39	6.87	155
30626447	Leaf Profile	1.185	339	22.72	6.70	155
30626488	Leaf Profile	1.320	413	28.80	6.51	155
30629169	Ending Profile	1.088	336	0.00	0.00	156
30629246	Ending Profile	1.269	582	0.00	0.00	157
30629700	Control Rod	0.194	51	0.01	0.25	156
30629703	Control Rod	0.305	72	0.03	0.52	156
30629816	Insert Profile	1.617	627	0.00	0.00	157
30629826	Insert Profile	0.943	252	0.00	0.00	156
30881123	Mullion Profile	7.250	914	1961.55	302.44	195

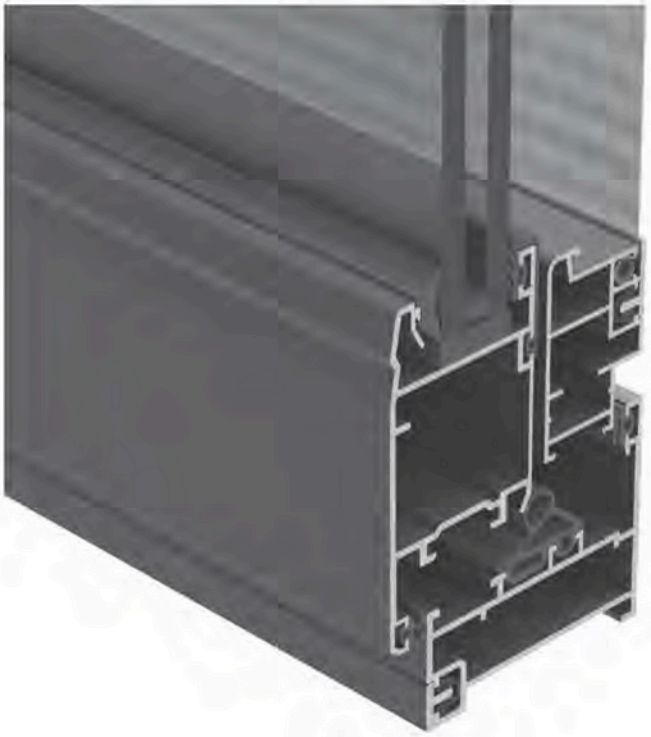
Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
50204210	Fly Screen Leaf Profile	0.313	185	0.29	1.51	199
50251060	Frame Profile	0.319	121	0.00	0.00	199
50251110	Frame Profile	0.351	149	0.00	0.00	199
50252060	Fly Screen Frame Profile	0.938	285	15.62	5.16	199
50252110	Fly Screen Frame Profile	0.590	203	3.52	3.28	199
50254100	Fly Screen Leaf Profile	0.419	233	2.47	0.85	199
50254110	Fly Screen Leaf Profile	0.467	274	0.91	3.68	199
50254140	Fly Screen Leaf Profile	0.567	268	4.96	1.17	199
50254210	Fly Screen Leaf Profile	0.535	272	4.25	1.05	200
50254230	Fly Screen Leaf Profile	0.728	328	12.53	1.18	200
50254231	Fly Screen Leaf Profile	0.728	270	1.18	12.54	200
50254240	Fly Screen Leaf Profile	0.594	265	5.15	1.23	200
50254810	Fly Screen Leaf Profile	0.165	79	0.15	0.21	200
50254830	Fly Screen Leaf Profile	0.307	145	0.69	0.40	200
50254832	Fly Screen Leaf Profile	0.420	158	0.81	1.09	200
50274240	Fly Screen Leaf Profile	0.760	343	2.09	11.75	201
50274241	Fly Screen Leaf Profile	0.752	368	1.94	11.77	201
50274270	Fly Screen Leaf Profile	0.760	343	2.09	11.75	201
50274271	Fly Screen Leaf Profile	0.752	368	1.94	11.77	201
50277420	Fly Screen Leaf Profile	0.788	331	3.61	7.60	201
50277421	Fly Screen Leaf Profile	0.373	151	1.29	0.75	201
50277440	Fly Screen Leaf Profile	0.676	333	2.54	6.34	201
50277541	Fly Screen Leaf Profile	0.478	207	1.73	1.35	201
50279410	Insert Profile	0.297	123	1.24	0.10	201
50281210	Fly Screen Frame Profile	0.634	248	7.89	3.09	202
50284310	Fly Screen Leaf Profile	0.477	165	1.02	2.11	202
50284311	Fly Screen Leaf Profile	0.514	179	1.40	2.23	202
50284460	Fly Screen Leaf Profile	0.630	195	2.08	4.65	202
50284461	Fly Screen Leaf Profile	0.618	200	1.91	4.00	202
50289210	Fly Screen Leaf Profile	0.615	230	4.89	1.62	202
50289610	Insert Profile	0.302	186	1.06	0.41	202
50289620	Insert Profile	0.672	250	3.13	10.51	202
59005020	Fly Screen Transom Profile	0.375	107	3.13	0.07	202
59005410	Fly Screen Transom Profile	0.610	198	5.99	5.70	202
59009100	Additional Profile	0.100	53	0.01	0.08	202
80011500	Additional Profile	0.421	180	0.04	6.13	215
80451150	Frame Profile	1.215	418	13.70	24.91	51
80451152	Frame Profile	1.353	433	19.42	28.82	51
80451420	Frame Profile	1.123	346	12.83	8.35	51
80451520	Frame Profile	1.311	387	17.78	23.42	51
80452072	Frame Profile	1.506	417	30.01	8.51	52
80452101	Frame Profile	1.839	444	68.70	7.67	52
80454010	Leaf Profile	1.156	328	12.41	8.00	53
80454112	Leaf Profile	1.046	321	13.15	7.87	53

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
80454121	Leaf Profile	1.601	397	20.88	20.13	53
80454122	Leaf Profile	1.280	354	17.10	18.13	53
80454280	Leaf Profile	1.336	356	12.21	17.54	53
80615760	Transom Profile	1.742	555	30.55	43.86	22
90011100	Gasket Cover	0.092	42	0.01	0.01	211
90011300	Gasket Cover	0.240	116	1.66	0.03	211
90011302	Gasket Cover	0.308	154	2.05	0.24	211
90011303	Gasket Cover	0.285	156	1.95	0.17	211
90011304	Gasket Cover	0.259	131	1.81	0.05	211
90011305	Gasket Cover	0.275	139	1.76	0.05	211
90011308	Gasket Cover	0.291	140	1.89	0.27	211
90011500	Gasket Cover	0.348	183	6.10	0.03	212
90011502	Gasket Cover	0.424	204	6.64	0.38	212
90011503	Gasket Cover	0.402	219	7.49	0.32	212
90011504	Gasket Cover	0.370	191	6.73	0.07	212
90011505	Gasket Cover	0.383	194	6.40	0.07	212
90011507	Gasket Cover	0.383	186	6.30	0.04	212
90011700	Gasket Cover	0.418	215	11.29	0.04	212
90011702	Gasket Cover	0.473	233	11.31	0.43	212
90021100	Gasket Cover	0.543	245	0.05	22.75	211
90021200	Gasket Cover	0.181	81	0.01	0.11	211
90021220	Gasket Cover	0.272	121	1.93	0.04	211
90021700	Gasket Cover	0.378	182	8.99	0.05	211
90029200	Additional Profile	0.070	38	0.02	0.00	211
90031110	Additional Profile	0.192	90	0.05	0.56	213
90031230	Additional Profile	0.317	155	2.18	0.59	213
90031231	Additional Profile	0.396	191	3.08	0.47	213
90031550	Additional Profile	0.502	247	5.29	5.66	213
90031551	Cover Profile	0.663	246	6.45	6.54	213
90041530	Additional Profile	0.578	243	3.13	8.93	213
90051100	Additional Profile	0.767	270	11.85	1.06	213
90051101	Additional Profile	0.588	296	0.14	0.00	213
90051240	Additional Profile	0.409	198	3.15	0.65	213
90051400	Additional Profile	0.216	114	0.97	0.14	213
90051402	Additional Profile	0.701	268	12.18	2.90	214
90051403	Additional Profile	0.845	355	15.01	8.98	214
90059336	Additional Profile	0.626	246	8.51	1.58	214
90085100	Connection Profile	2.345	413	120.10	30.67	214
90085140	Connection Profile	2.389	497	174.20	55.31	215
90085312	Connection Profile	1.638	362	95.63	13.41	215
90085525	Connection Profile	0.483	197	1.18	5.48	214
90093011	Connection Profile	0.107	61	0.11	0.02	214
C4209	Slat Profile	3.528	699	422.93	52.82	219
C4211	Slat Profile	0.583	234	0.78	5.42	219

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
C4216	Slat Profile	1.418	307	32.63	9.73	219
C4218	Slat Profile	2.133	390	93.60	30.81	220
C4219	Slat Profile	2.785	440	200.28	42.34	220
C4221	Frame Profile	0.985	289	20.95	3.23	220
C4226	Frame Profile	1.335	320	20.15	17.15	220
C4231	Additional Pieces	0.143	107	0.83	0.01	221
C4232	Cover Profile	0.142	101	0.00	0.00	221
C4241	Slat Profile	0.772	207	1.19	25.08	221
C4243	Slat Profile	1.269	312	4.40	82.46	221
C4245	Slat Profile	1.924	415	10.89	237.71	221
C4246	Slat Profile	0.799	217	1.91	26.98	222
C4247	Slat Profile	0.960	237	2.39	39.21	222
C4248	Slat Profile	1.307	325	7.27	94.78	222
C4249	Slat Profile	1.431	357	8.50	126.04	222
C4260	Slat Profile	0.638	257	8.07	12.39	223
C4262	Slat Profile	0.699	303	13.72	23.91	223
C4264	Slat Profile	0.974	397	30.35	67.28	223
C4266	Slat Profile	1.365	424	4.36	92.47	227
C4267	Slat Profile	1.789	429	9.91	228.58	225
C4269	Slat Profile	2.642	618	16.07	420.51	225
C4273	Slat Profile	0.808	295	9.60	25.13	224
C4274	Slat Profile	0.872	332	13.06	35.06	224
C4278	Slat Profile	0.882	279	15.31	11.84	226
C4279	Slat Profile	1.034	364	15.60	21.91	226
C4290	Slat Profile	1.636	393	7.48	85.78	226
C4291	Slat Profile	1.411	267	0.07	73.48	227
C4292	Slat Profile	1.919	393	12.69	69.27	226
C4295	Slat Profile	0.869	449	3.22	71.10	227
C4296	Slat Profile	0.567	281	0.00	0.00	227
C4297	Slat Profile	1.003	362	2.07	60.86	227
C5003	Spacer	0.290	117	0.40	1.92	205
C5007	Frame Profile	0.832	318	11.49	10.70	205
C5011	Frame Profile	0.794	364	20.08	3.11	205
C5012	Frame Profile	1.119	504	38.19	4.94	205
C5025	Leaf Profile	0.955	423	9.81	15.68	205
C5042	Leaf Profile	1.341	531	12.55	30.54	205
C5051	Transom Profile	0.619	275	6.81	1.65	205
C5052	Transom Profile	0.529	229	5.39	3.20	206
C5057	Transom Profile	0.401	160	1.47	2.24	206
C5058	Transom Profile	0.395	182	3.04	0.34	206
C5059	Transom Profile	0.384	181	0.81	2.15	206
C5061	Slat Profile	0.292	111	0.00	0.00	206
C5062	Slat Profile	0.354	111	0.00	0.00	206
C5064	Slat Profile	0.431	137	2.93	2.93	206

Profile No.	Description	Weight / Metre	Surface Area	Ix-Value	Iy-Value	Page
		in kg	in mm	in cm4	in cm4	
C5067	Slat Profile	0.246	85	0.82	0.34	206
C5068	Slat Profile	0.517	189	3.18	5.30	206
C5069	Slat Profile	0.810	137	4.20	3.67	206
C5071	Slat Profile	0.423	217	0.00	0.00	207
C5074	Slat Profile	0.322	222	3.19	1.15	207
C5082	Slat Profile	0.630	271	0.00	0.00	207
C5087	Slat Profile	0.459	174	0.00	0.00	207
C5091	Frame Profile	0.880	360	6.76	8.02	207
C5096	Frame Profile	0.788	318	2.52	12.88	207
EX1804	Mullion Profile	1.486	484	32.35	5.58	235
EX1808	Mullion Profile	1.216	328	7.09	7.09	235
EX1810	Transom Profile	1.235	293	44.36	2.18	235
EX1817	Transom Profile	1.736	466	211.76	1.77	235
EX1840	Transom Profile	0.562	171	3.11	1.06	235
EX1842	Transom Profile	0.626	218	3.50	1.79	235
EX1850	Transom Profile	0.692	191	6.02	1.33	236
EX1873	Transom Profile	1.015	262	17.88	1.70	236
EX1875	Transom Profile	1.056	352	19.73	1.58	236
EX1880	Transom Profile	1.112	306	23.45	1.91	236
EX1891	Transom Profile	0.414	120	1.55	1.09	236
EX1896	Mullion Profile	1.283	382	14.93	19.26	236
RM8803	Frame Profile	0.988	425	0.68	50.00	231
RM8805	Frame Profile	1.088	457	2.00	48.94	231
RM8815	Frame Profile	1.408	566	14.52	63.47	231
RM8844	Slat Profile	0.482	241	1.30	5.73	231
RM8846	Slat Profile	0.517	284	1.53	11.35	231
RM8848	Slat Profile	0.660	329	1.68	28.65	232
RM8854	Transom Profile	0.997	282	17.44	42.30	232
RM8858	Ending Profile	0.614	282	0.40	16.06	232
RM8898	Ending Profile	0.615	306	3.24	16.07	232

PROFILES



ROCK 60

Hinged System

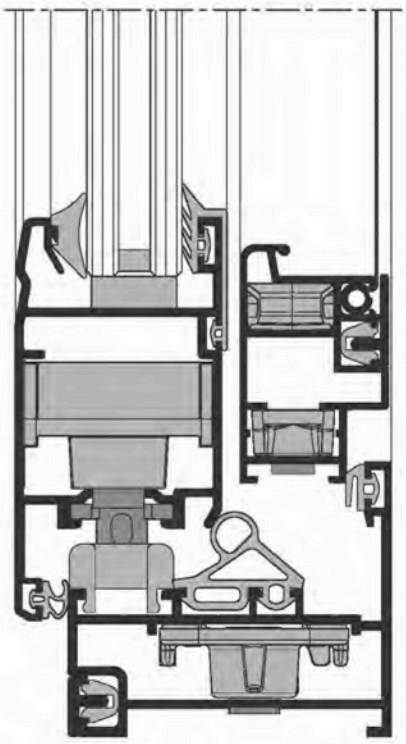
- Available in 3 different various designs, classic, concealed and in-frame fly screen innovation.
- Concealed opening frame that makes fixed and openable panels have the same outside appearance (optional).
- One frame can hold glass sash with integrated openable fly screen sash, both can be fully inward opened.
- Can be provided with triple glazing and with double glazing without losing its integrated fly screen capabilities.
- Used for doors and windows with large openings to obtain a wide view.

Technical Characteristics

Frame	Depth	61 mm. to 104 mm.
	Height	52 mm. to 130 mm.
Sash	Depth	39 mm. to 71 mm.
	Height	57 mm. to 113 mm.
Max Glass Thickness	Up to 36 mm.	
Max Sash Weight	Up to 160 kg.	
Sealing Type	EPDM gasket with central gasket	

Complies with European norm hEN 1435-1

Air Permeability	(Class 4) up to 600 pa.
Water Tightness	(Class E900) up to 900 pa.
Resistance to wind load	(Class C4) up to 1600 pa.



ECO CERTIFICAZIONI

EUROPEAN CERTIFYING ORGANIZATION S.P.A.
NOTIFIED TESTING LABORATORY N. 0714
FOR REGULATION (EU) No 305/2011

CLASSIFICATION ASSESSMENT
N. 0714-CPR-1312 DATED FEBRUARY, 12 2016

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, that replaces Council Directive 89/106/EEC and lays down conditions for the placing or making available on the market of construction products by establishing harmonised rules on how to express their performance in relation to their essential characteristics and taking account of the horizontal legal framework for the marketing of products in the internal market, established by Regulation (EC) No. 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products, as well as by Decision No. 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products,
and in compliance with hEN 14351-1:2006 – A1:2010 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics, which is currently in force,
European Certifying Organization S.p.A., notified laboratory NB 0714, carried out the following:

type-testing

for the determination of the essential characteristics

Air Permeability – Water tightness – Resistance to Wind Load

on the below mentioned external pedestrian doorset without resistance to fire and/or smoke leakage characteristics
In compliance with EN 12207:1999, EN 12208:1999, EN 12210:1999 – Classification,
EN 1026:2000, EN 1027:2000, EN 12211:2000 – Tests and calculations
System of assessment and verification of constancy of performance 3

The specimen, as provided by the Manufacturer, was identified as follows:

DESCRIPTION OF THE PRODUCT

Type:	Hinged Window, Single Leaf (open in).
Model:	ROCK 60 – Hinged System **Width**= 800 mm, **Height** = 1,200 mm, Thickness = 70 mm
Fabrication number:	-
Date of fabrication:	2016

Taking into account the documentation submitted by the Manufacturer and on the basis of the results of the type-testing carried out, as described in the laboratory report ECO CP0025/7, dated February 10, 2016, in accordance with Annex ZA of hEN 14351-1:2006 – A1:2010 and with the EN 12207:1999, EN 12208:1999 and EN 12210:1999 classification, to the specimen, as previously identified,

THE FOLLOWING CLASSIFICATION IS AWARDED

AIR PERMEABILITY:	CLASS 4
WATERTIGHTNESS:	CLASS E900
RESISTANCE TO WIND LOAD:	CLASS C4

The results refer only to the specimen that has been provided by the Manufacturer and submitted to type-testing listed above.
This classification assessment consists of 1 page and its reproduction is permitted in full only.

Faenza, February 12, 2016

Resp. Tecnico ECO S.p.A.
Ing. Gianluca Cardoni

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Tel. +39 0546 624911 • Fax +39 0546 624922
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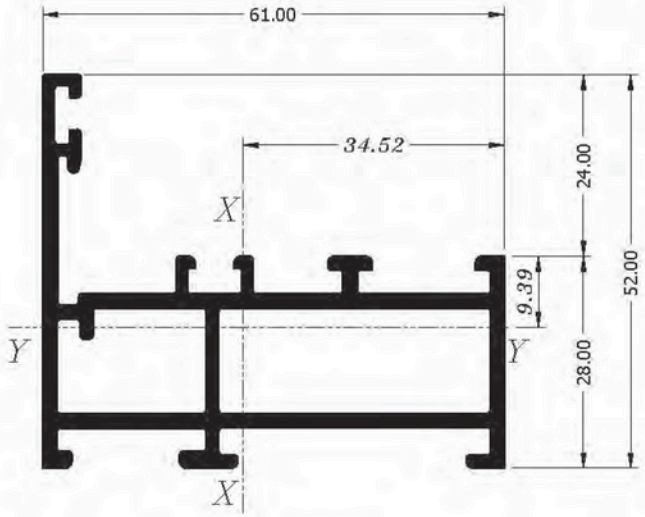
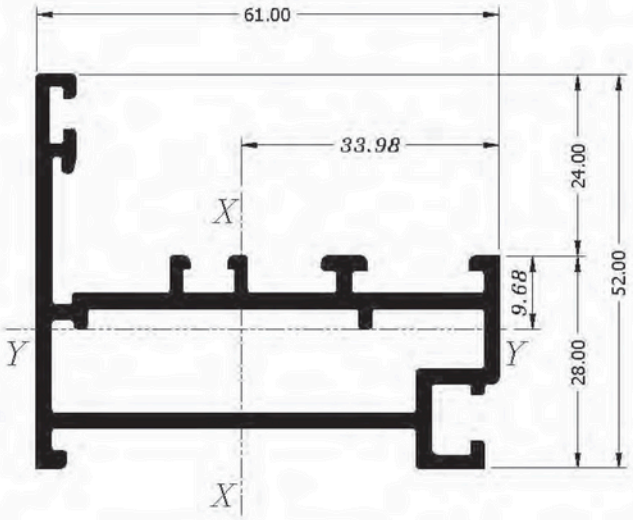


1 061 1100

1.103 Kg./ml.



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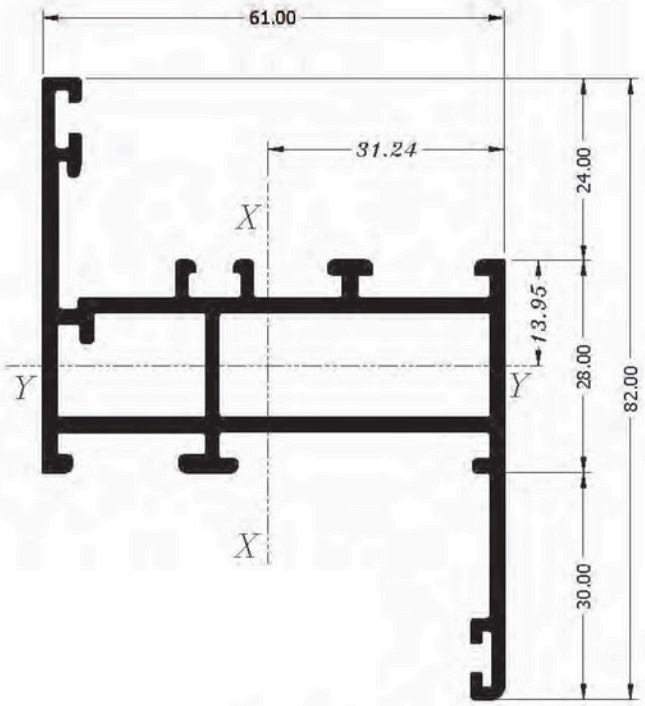

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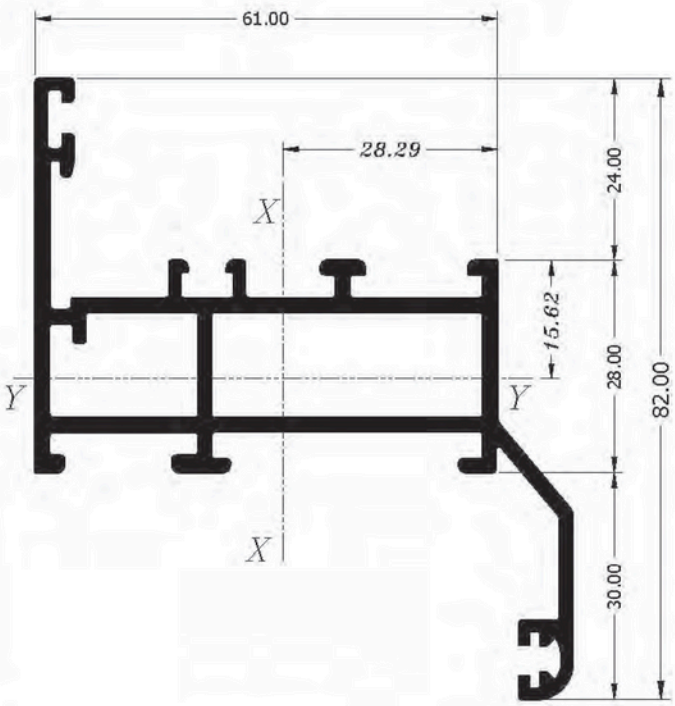

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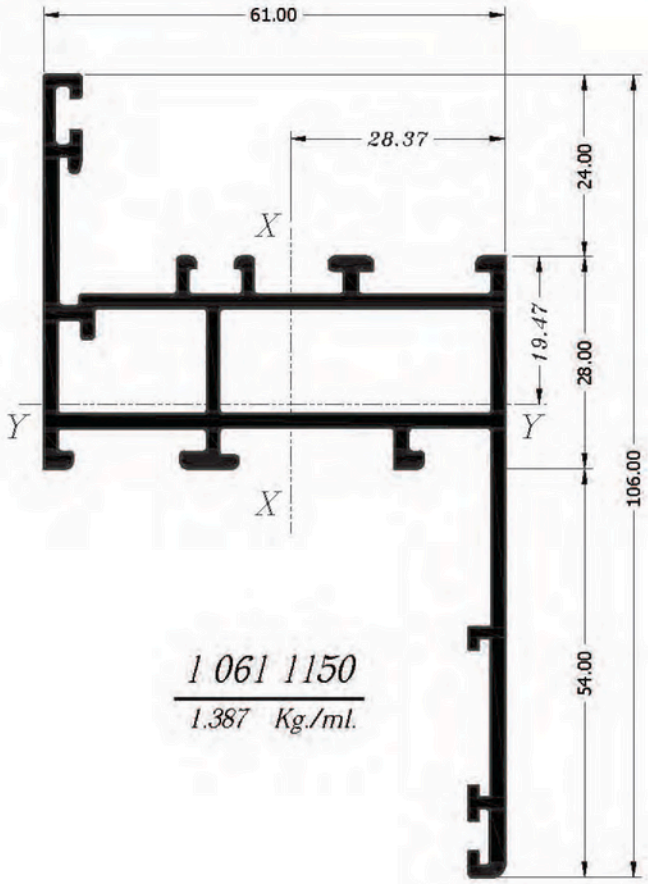

1 061 1150

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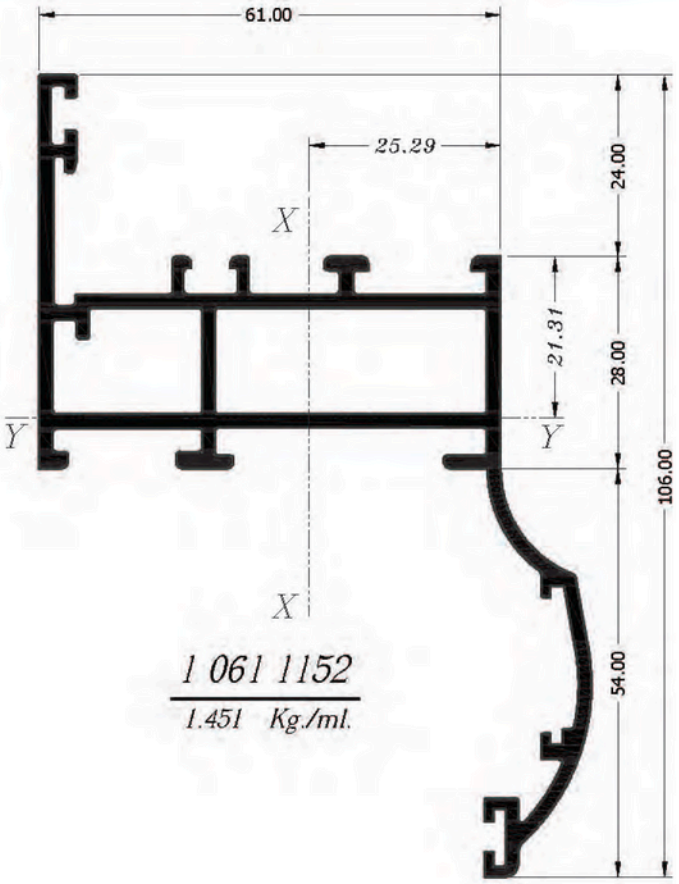

1 061 1152

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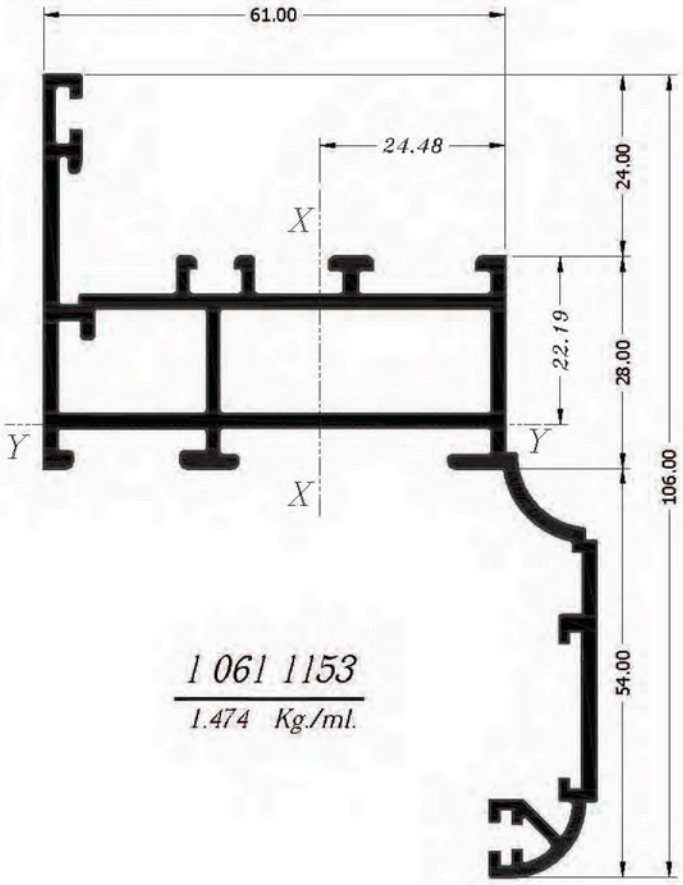
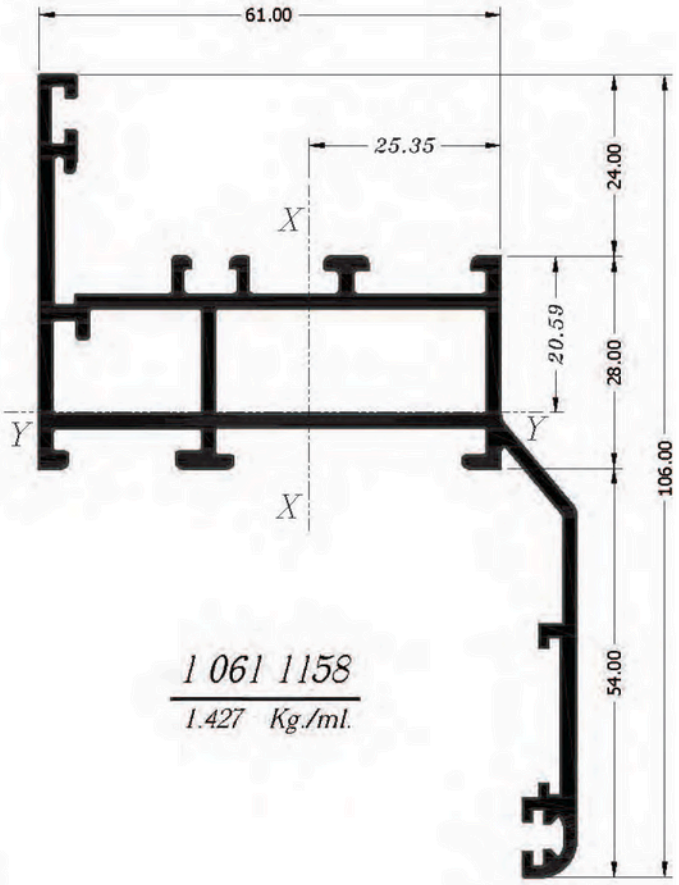


1 061 1153

1.474 Kg./ml.



1 061 1158

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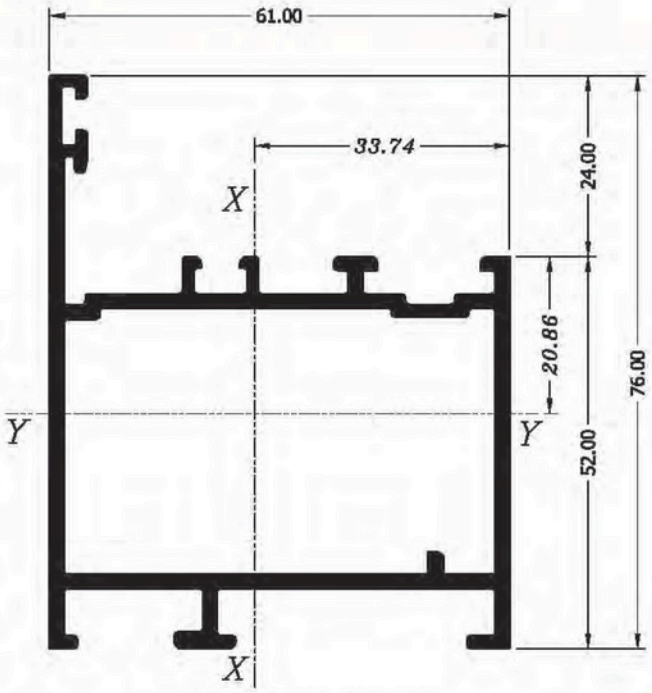

1 061 1200

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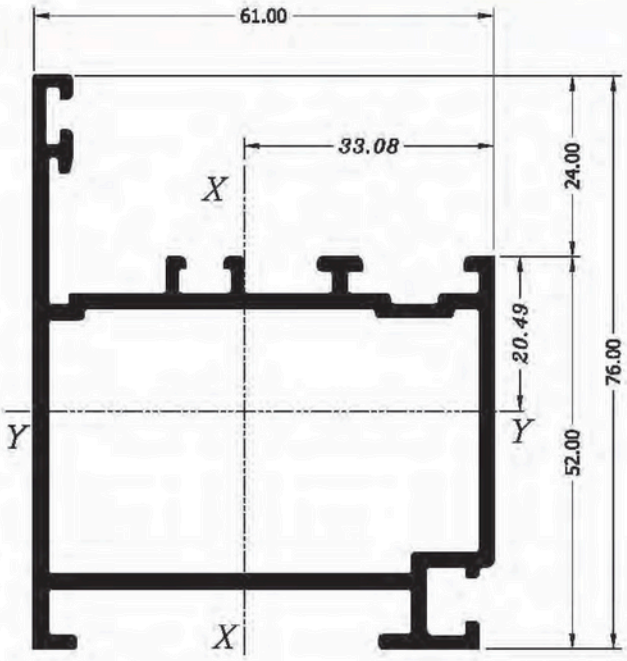

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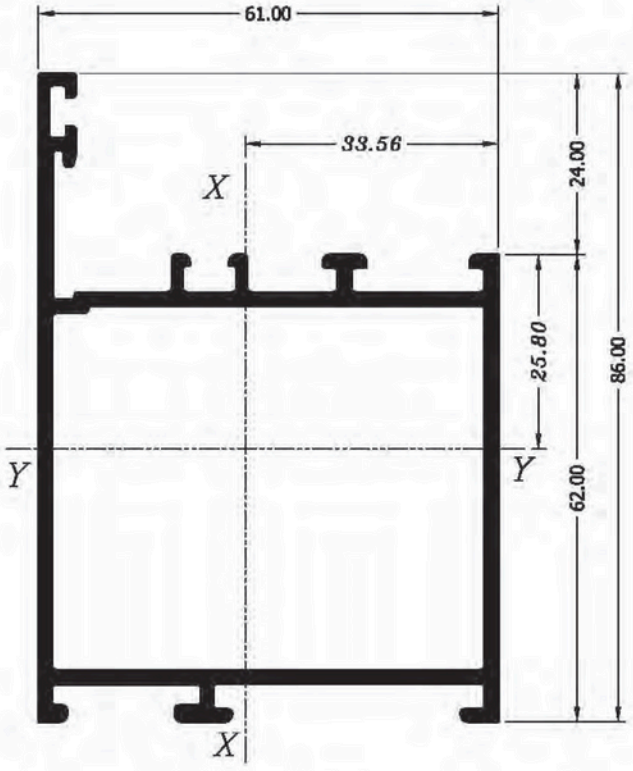

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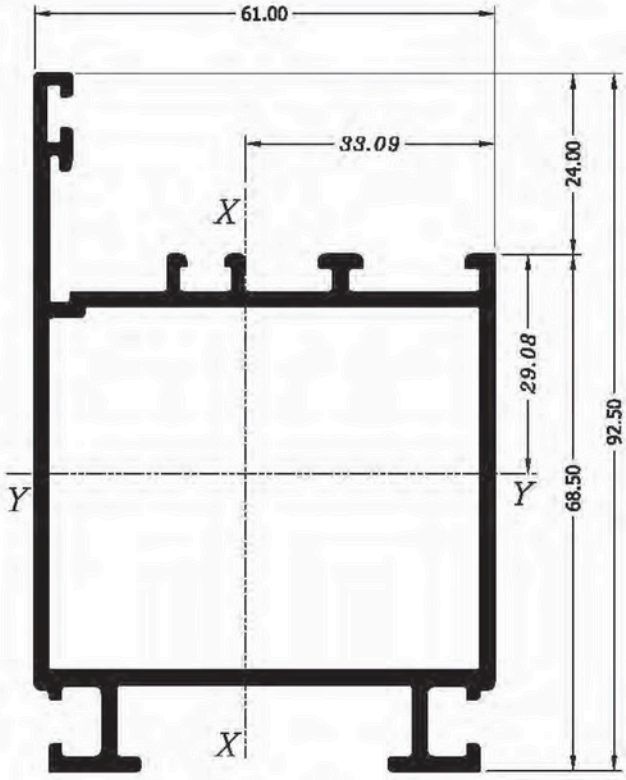

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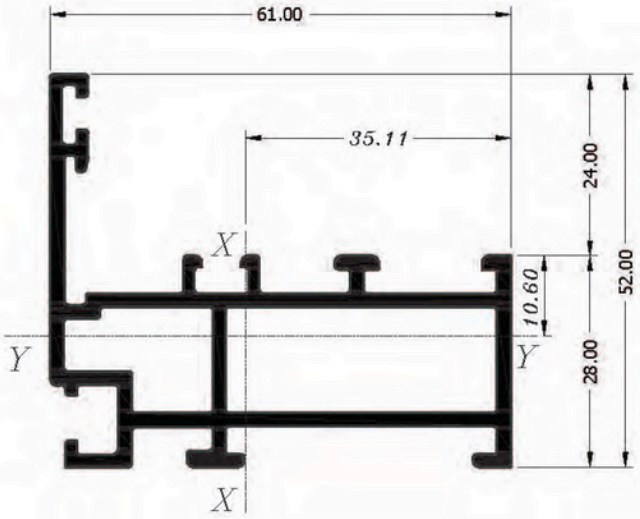
1.459 Kg./ml.

Profile No.	1 061 1300
Profile Old No.	RC 6115

1 061 1810

1.122 Kg./ml.



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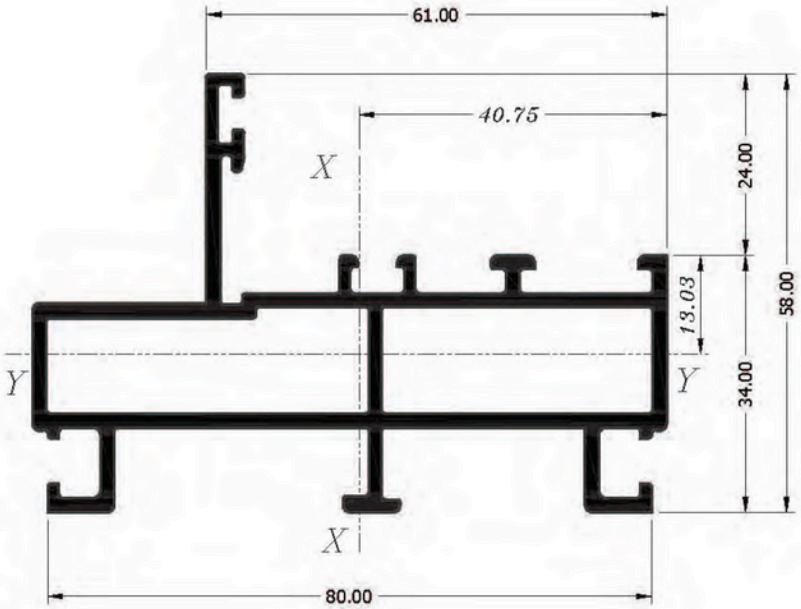
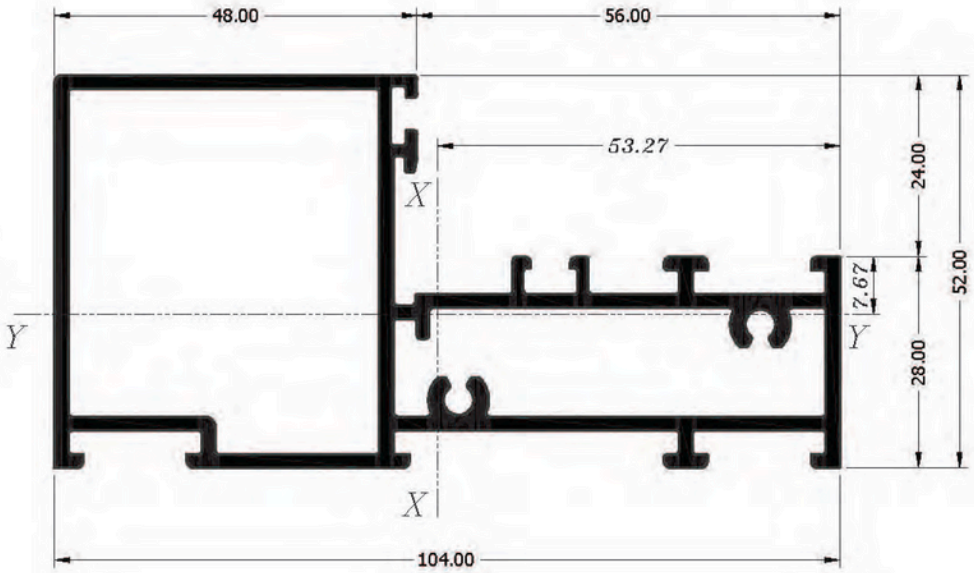
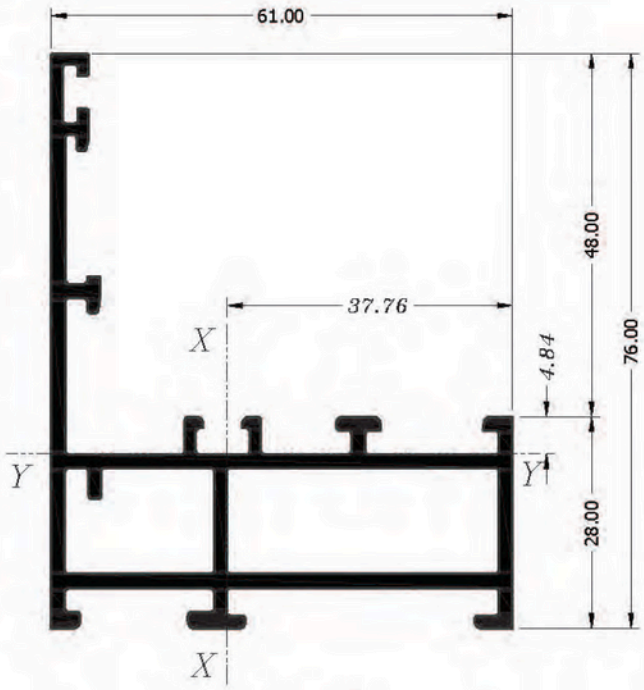


1 061 2103

1.719 Kg./ml.





1 061 3000

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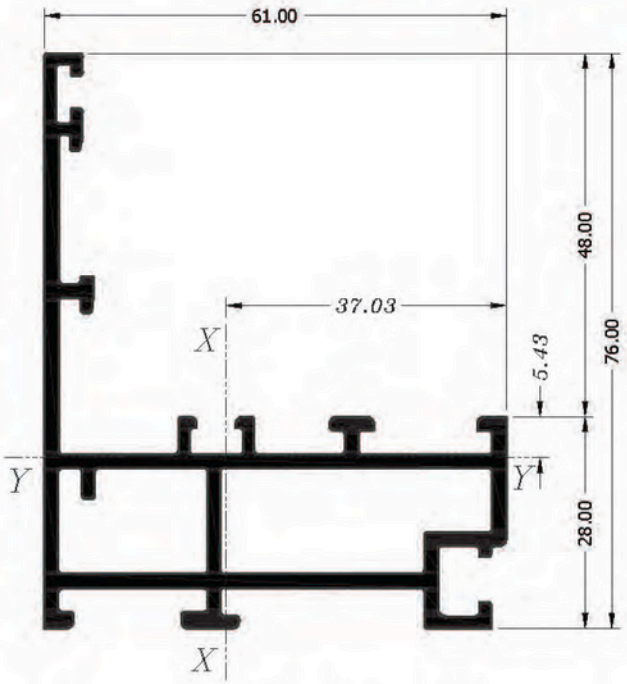
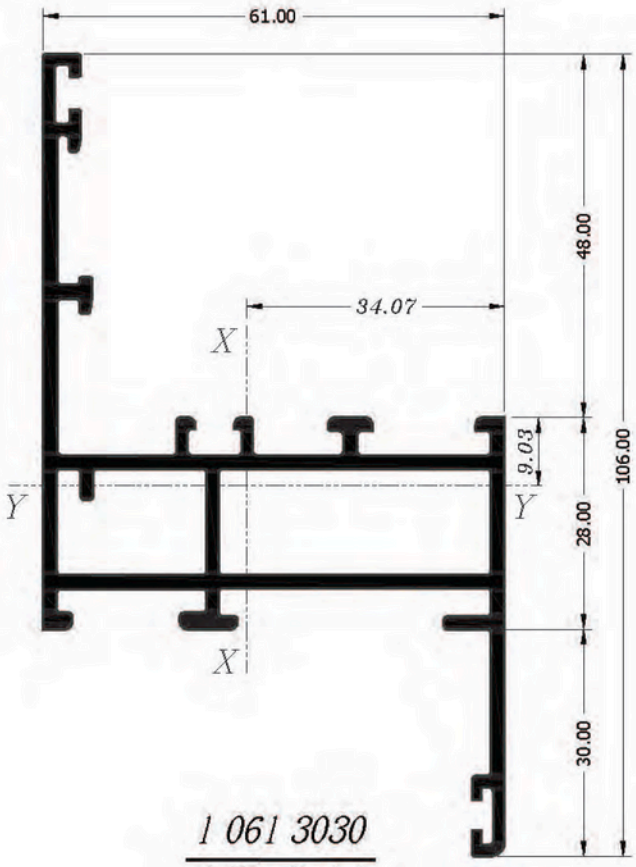


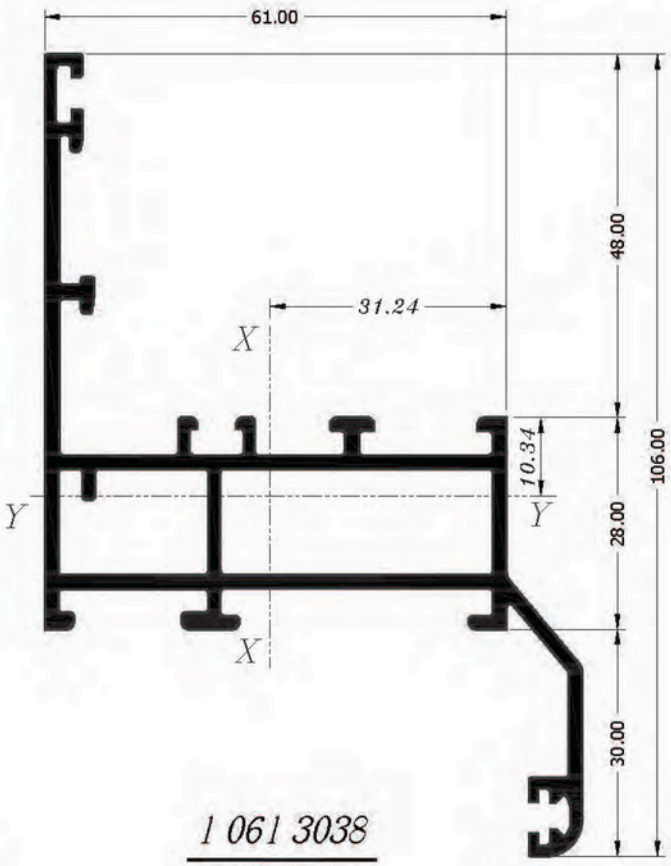
1 061 3010

1.290 Kg./ml.



1 061 3030

1.403 Kg./ml.



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1.458 Kg./ml.

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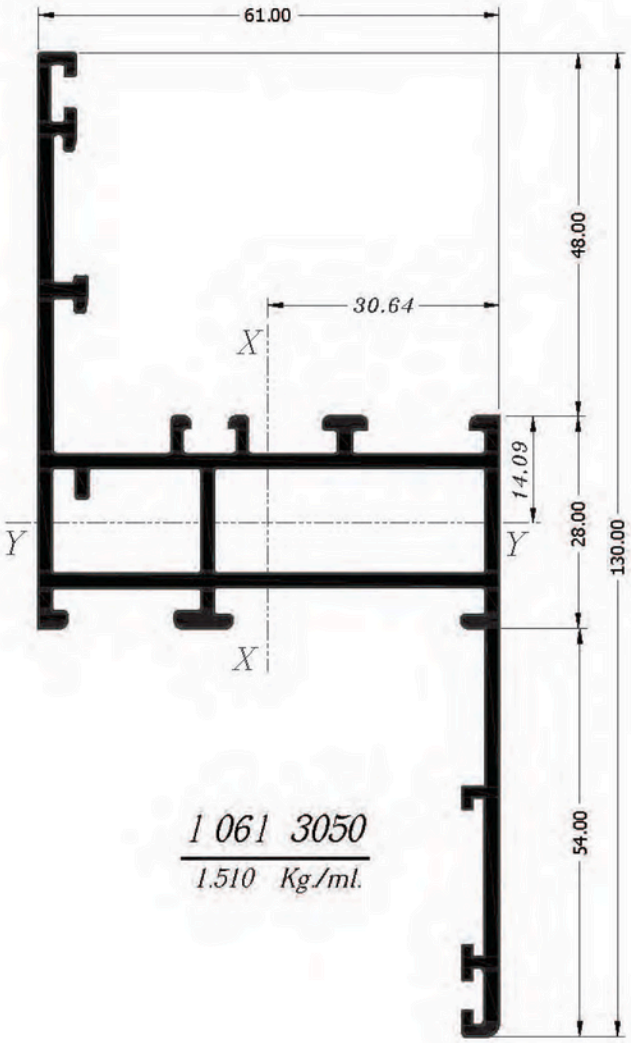
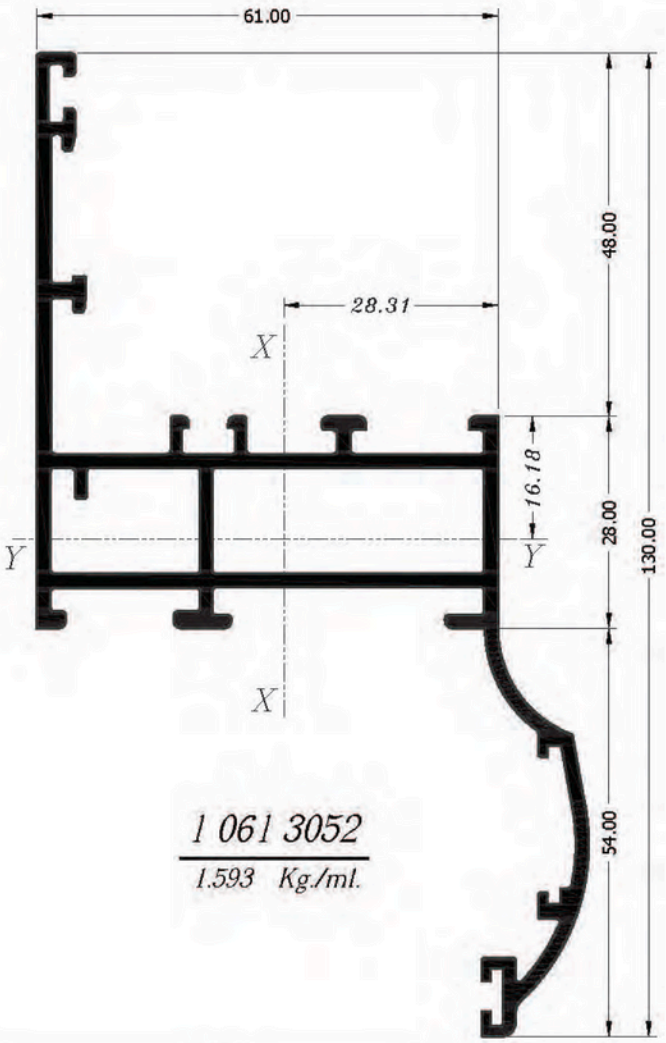
Profile Old No.	RC 6101.8



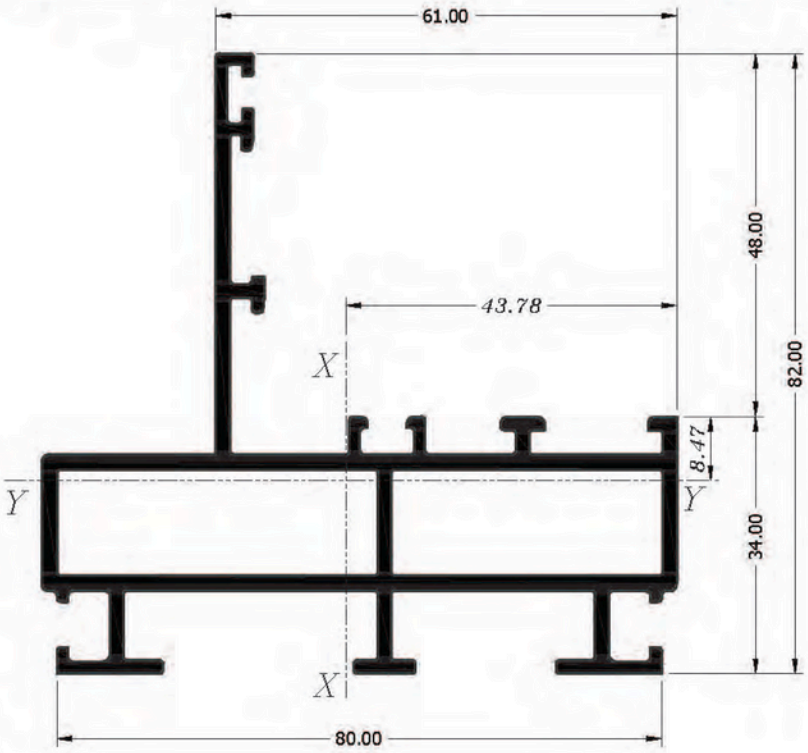
1 061 3050

1.510 Kg./ml.



1 061 3052

1.593 Kg./ml.



1 061 2088

1.571 Kg./ml.

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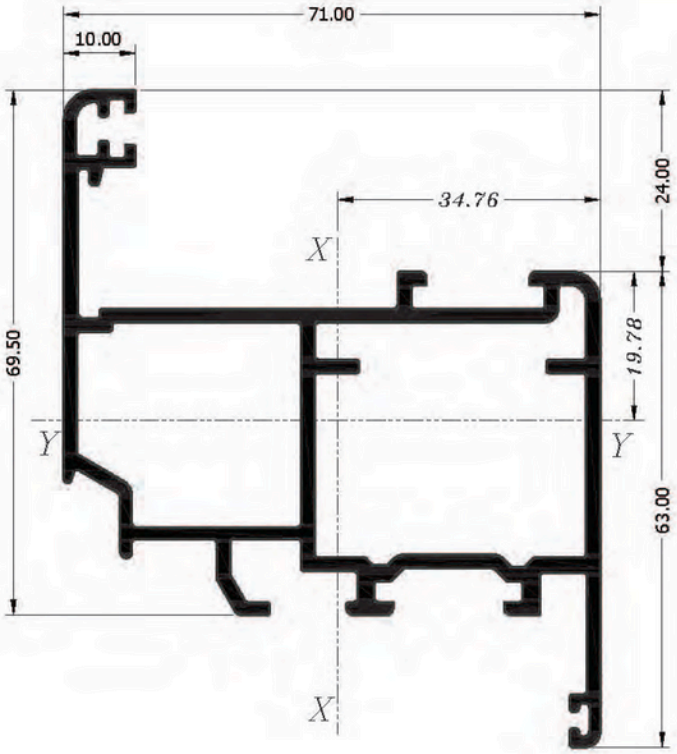
Profile Old No.	RC 6102



1 061 4122

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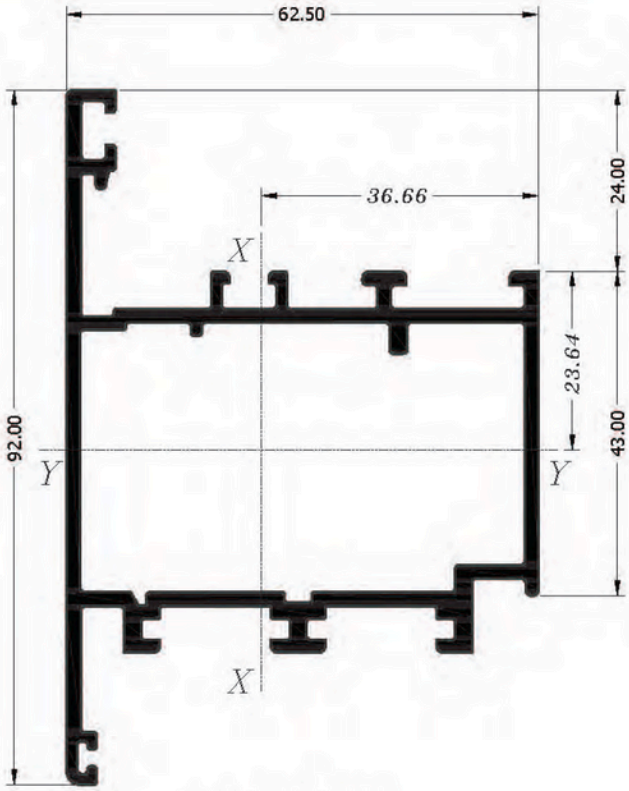
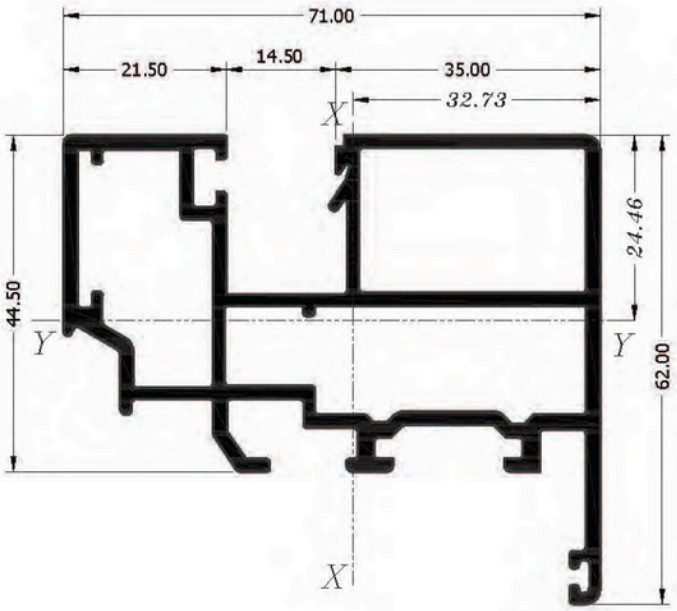


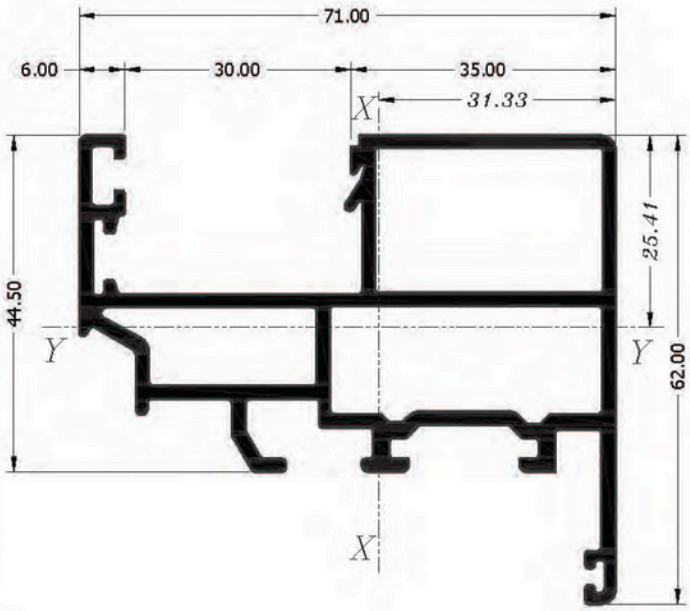
1 061 4220

1.454 Kg./ml.



1 061 4140

1.549 Kg./ml.



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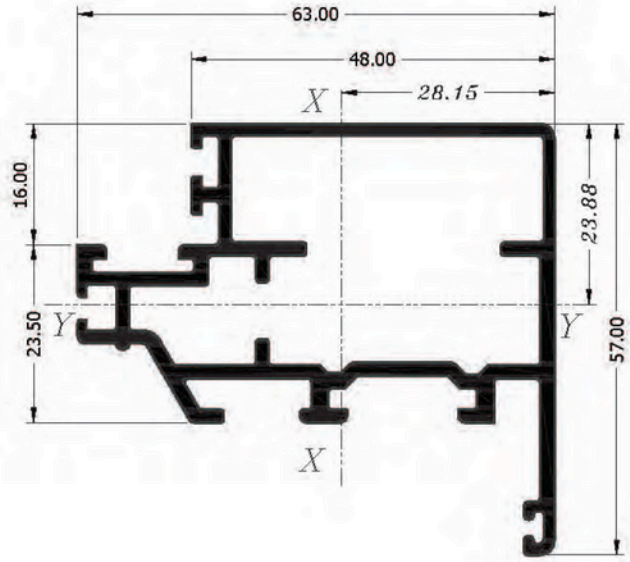

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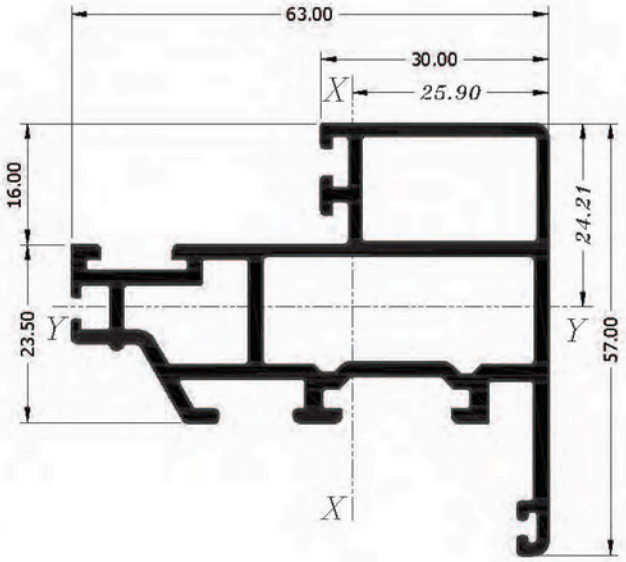
1.108 Kg./ml.



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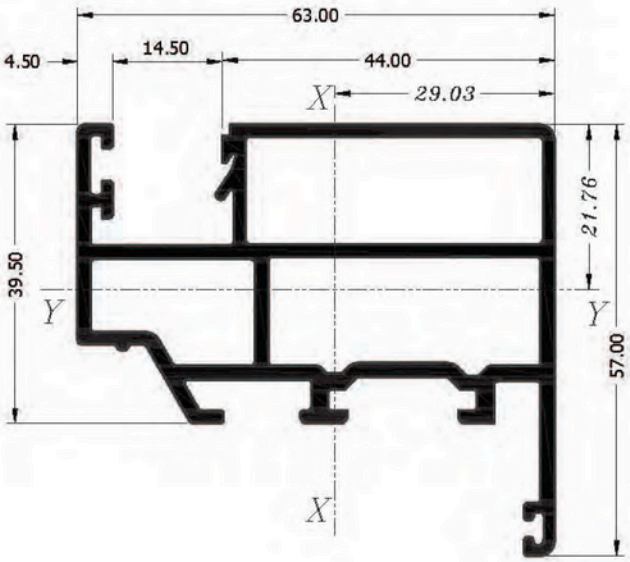

1 061 4460

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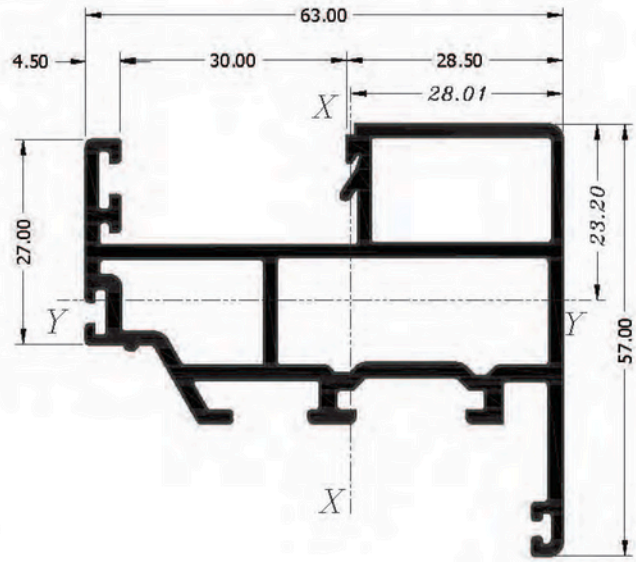
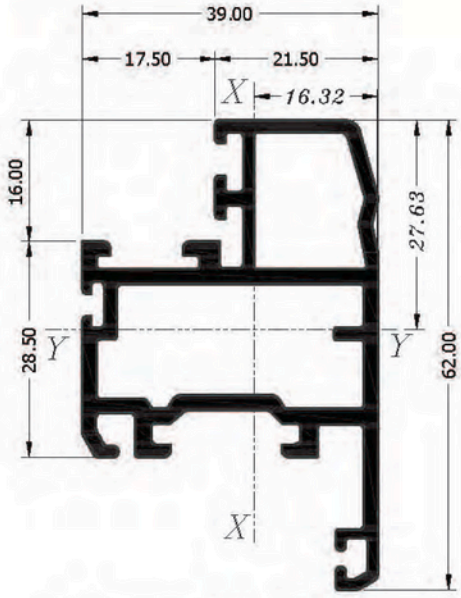


1 061 4480

1.269 Kg./ml.

Profile No.	*1 061 4430*
Profile Old No.	*RC 6142*



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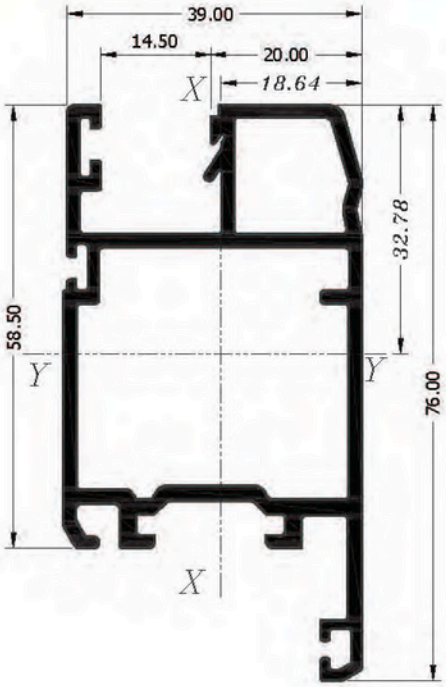
1.013 Kg./ml.



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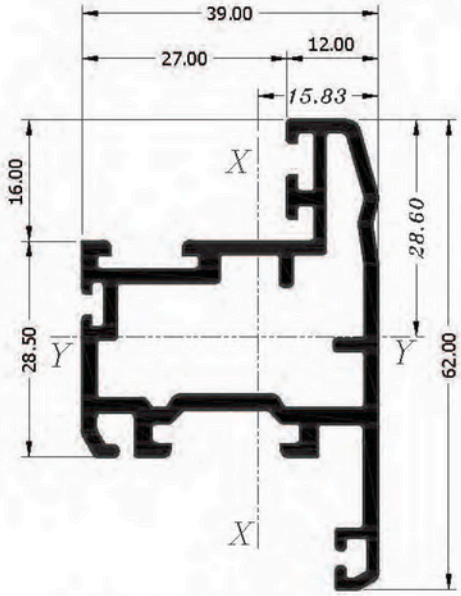

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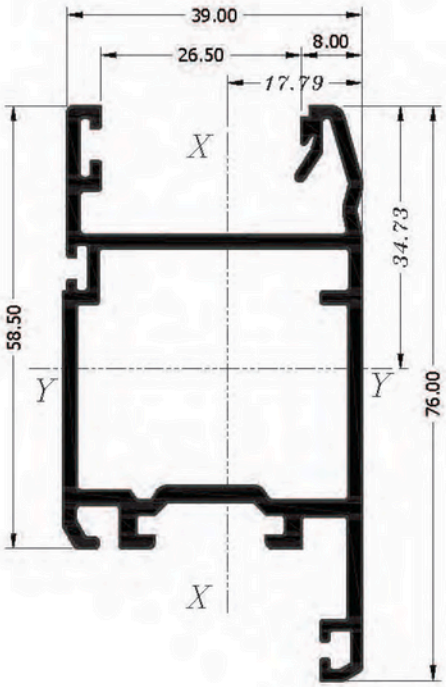

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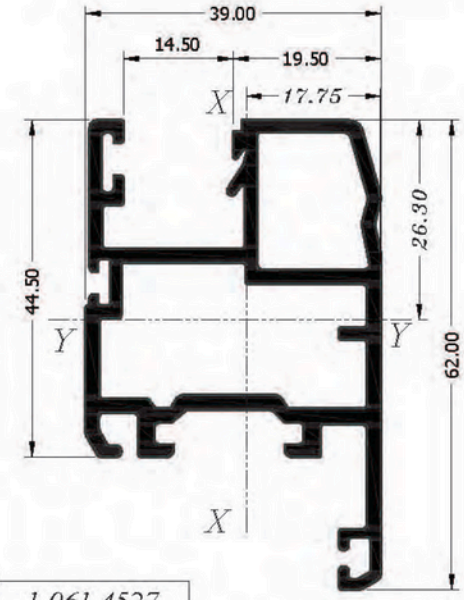

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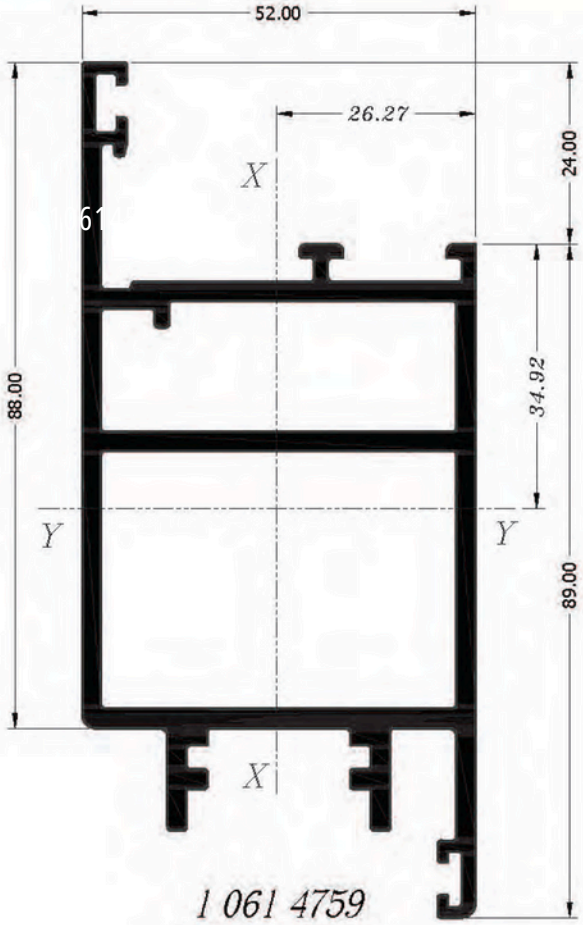

1 061 4759

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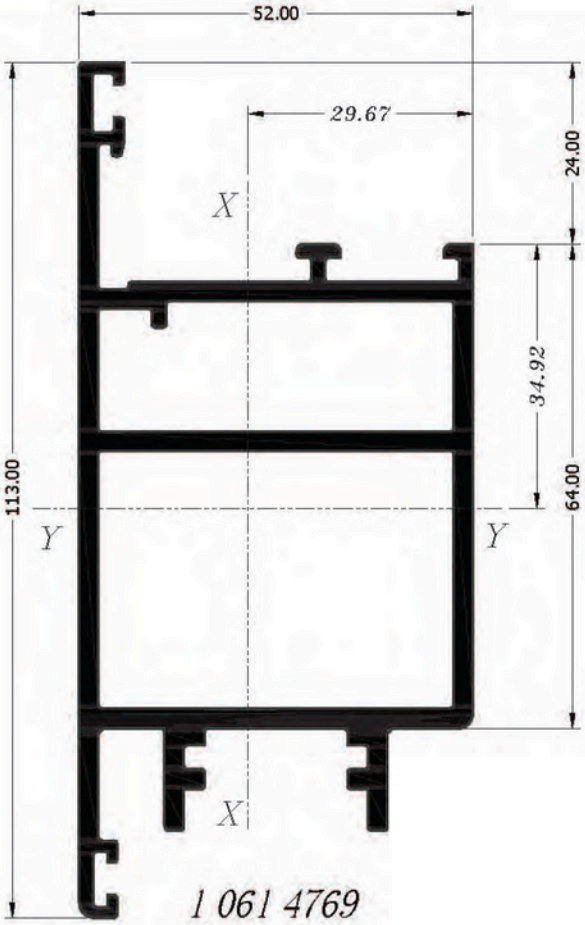
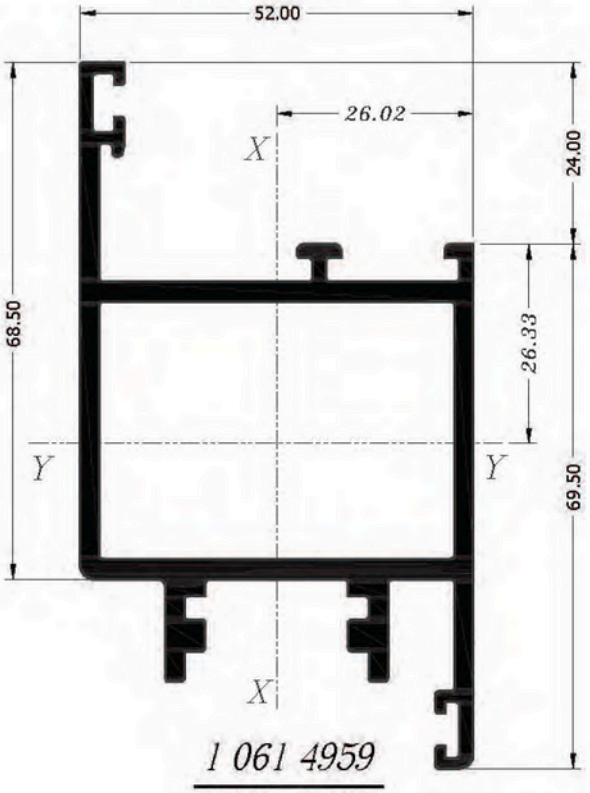


1 061 4769

2.258 Kg./ml.



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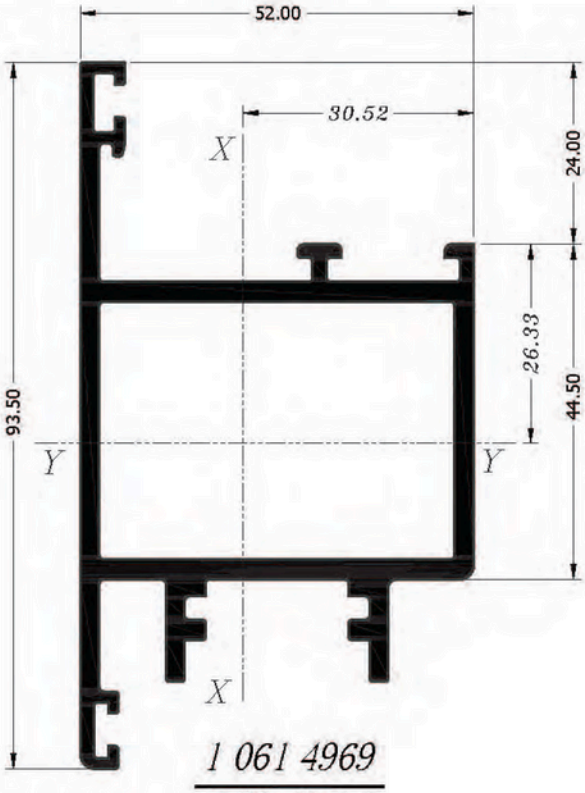

1 061 4969

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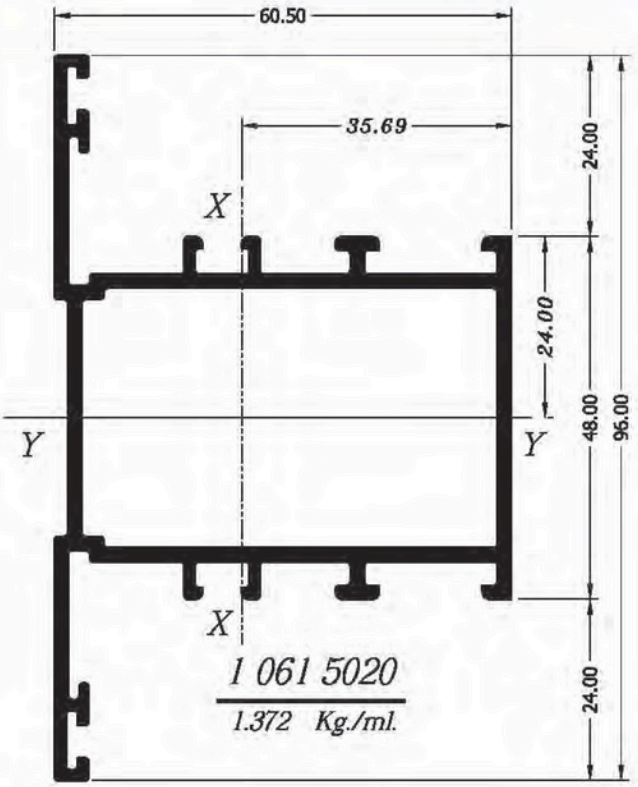

1 061 5020

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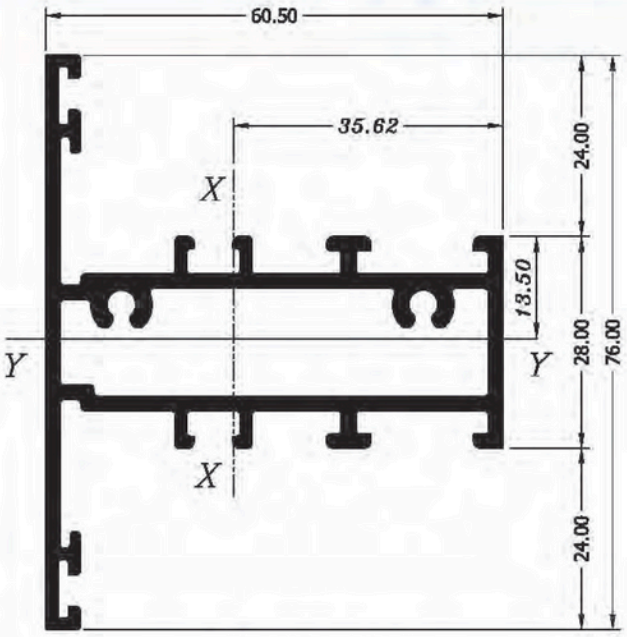

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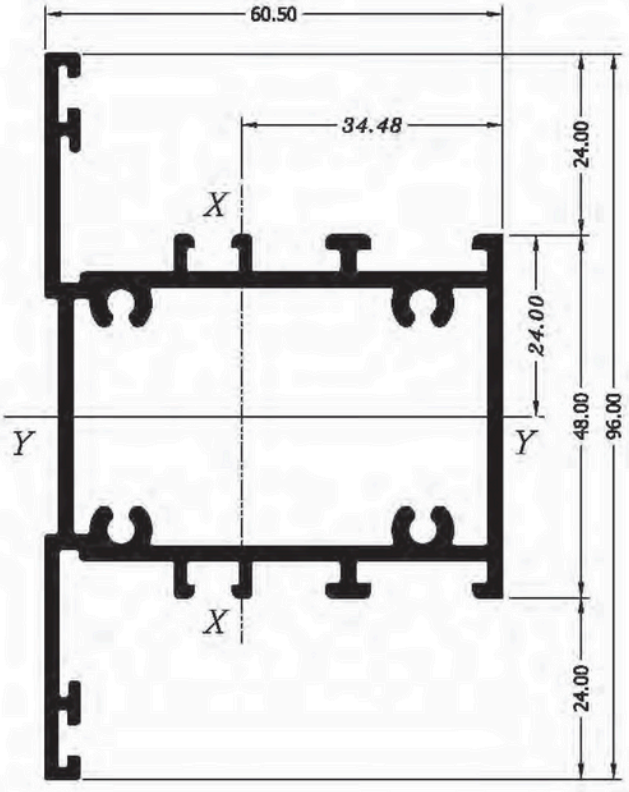
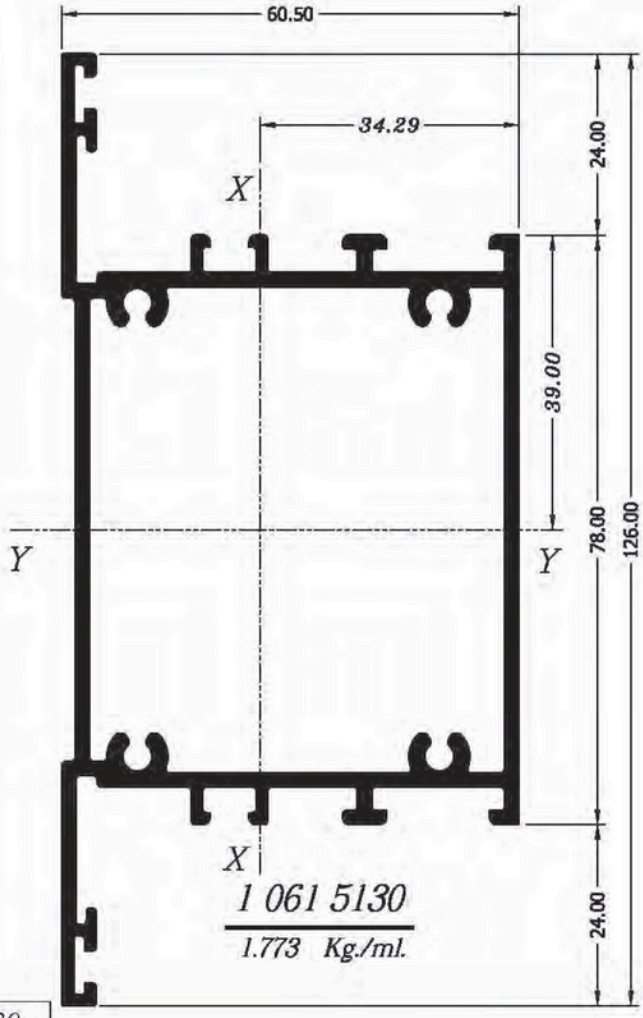


1 061 5120

1.515 Kg./ml.



1 061 5130

1.773 Kg./ml.

Profile No.	1 061 5110	1 061 5120	1 061 5130
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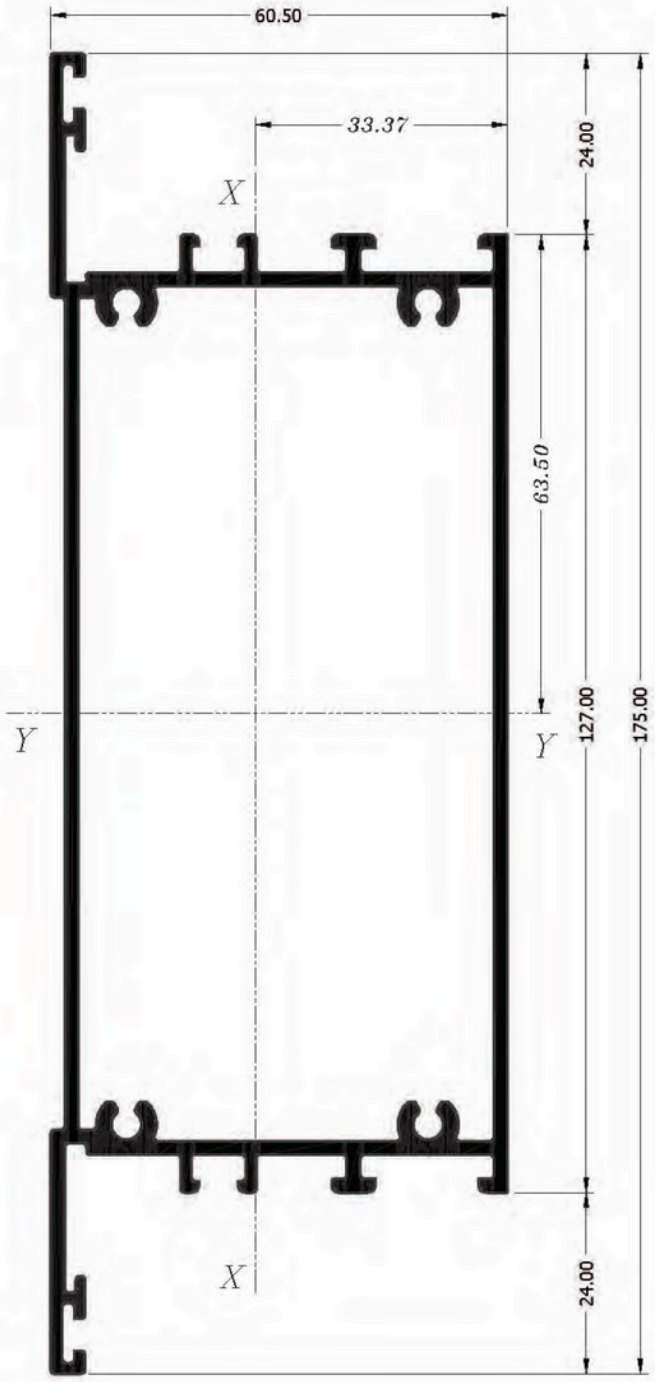
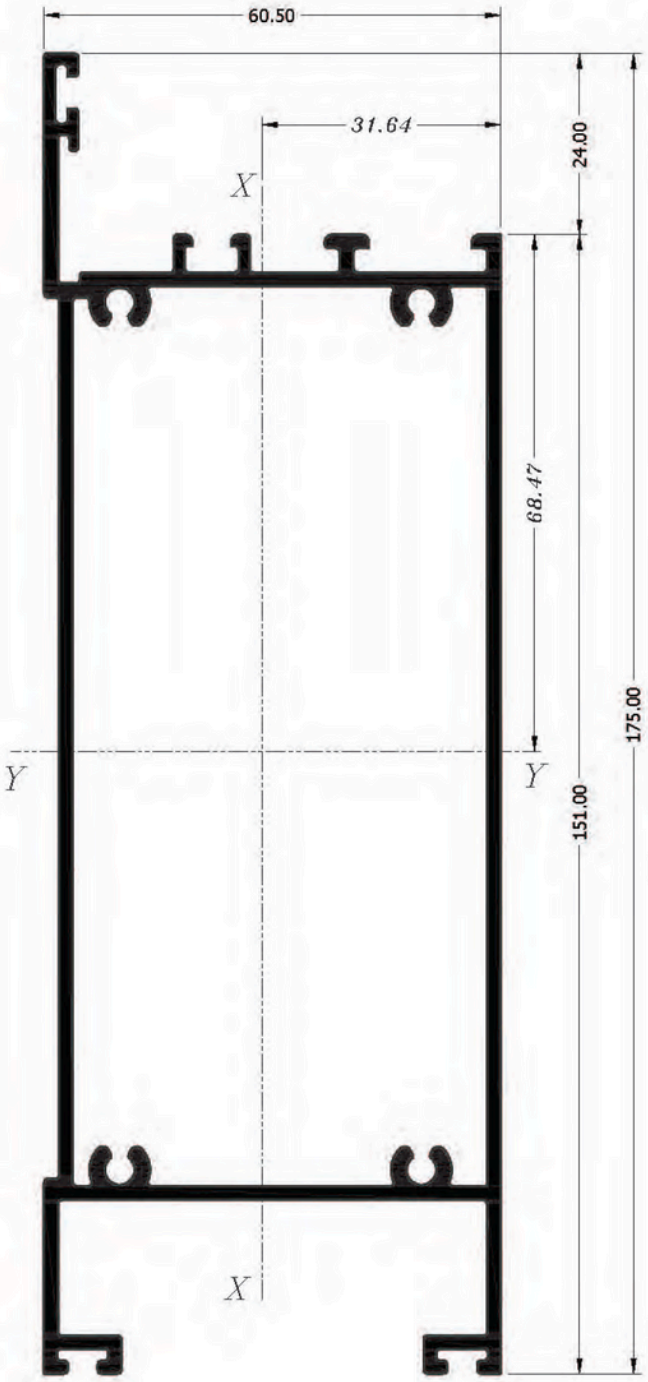


1 061 5140

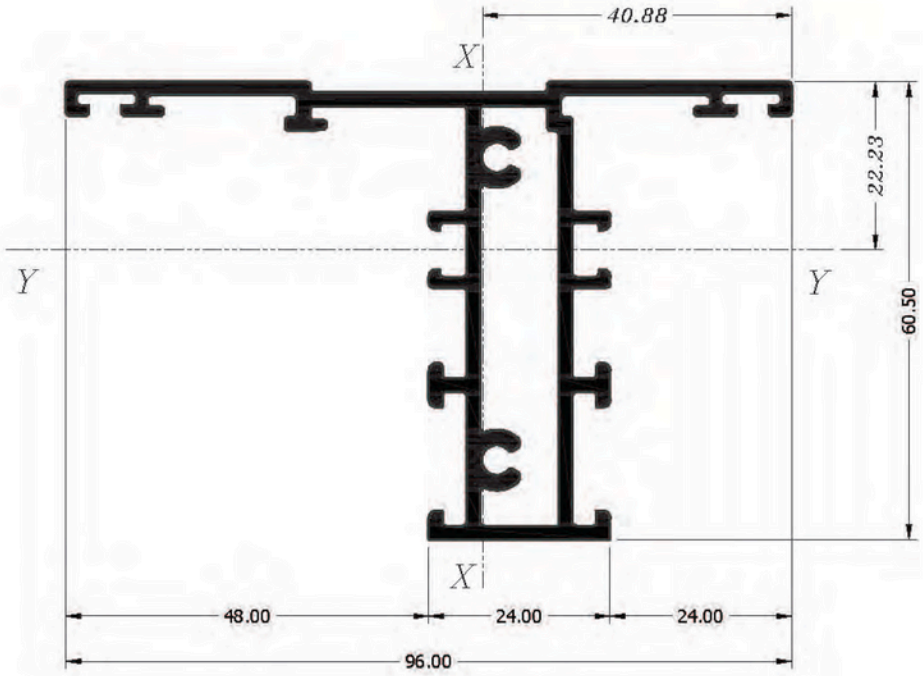
2.204 Kg./ml.



1 061 5340

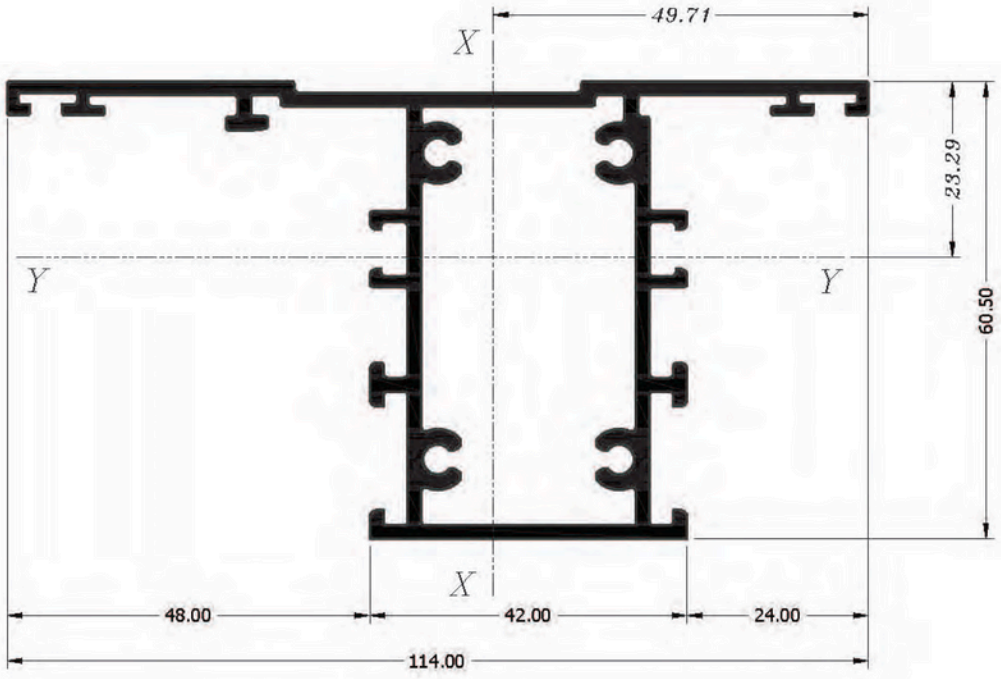
2.295 Kg./ml.

Profile No.	1 061 5340
Profile Old No.	RC 6158



1 061 5710

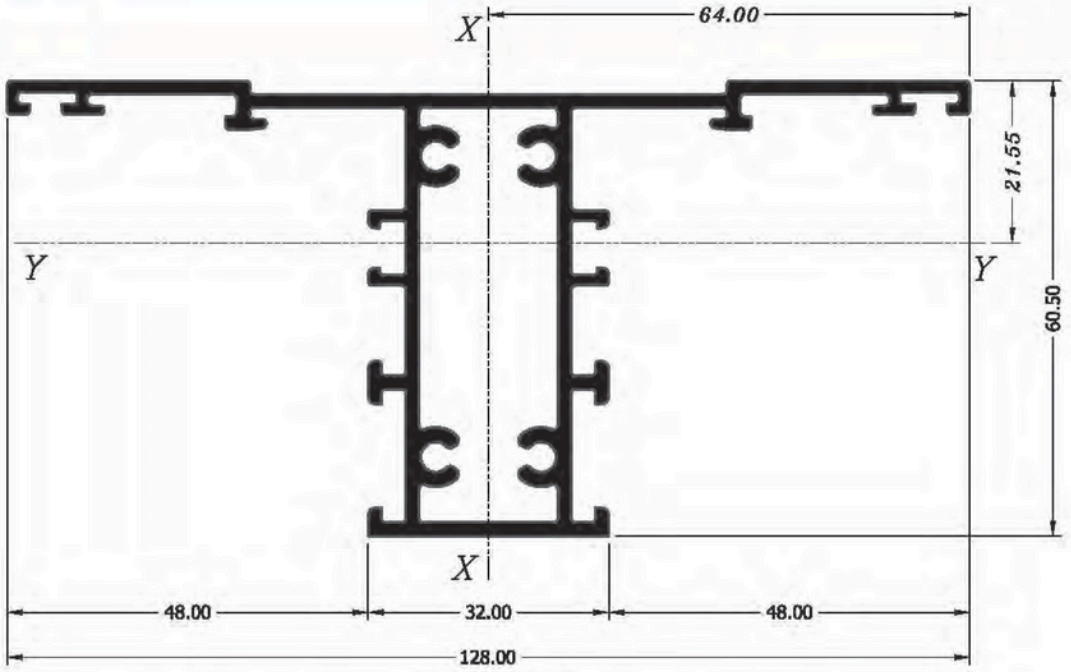
1.353 Kg./ml.



1 061 5720

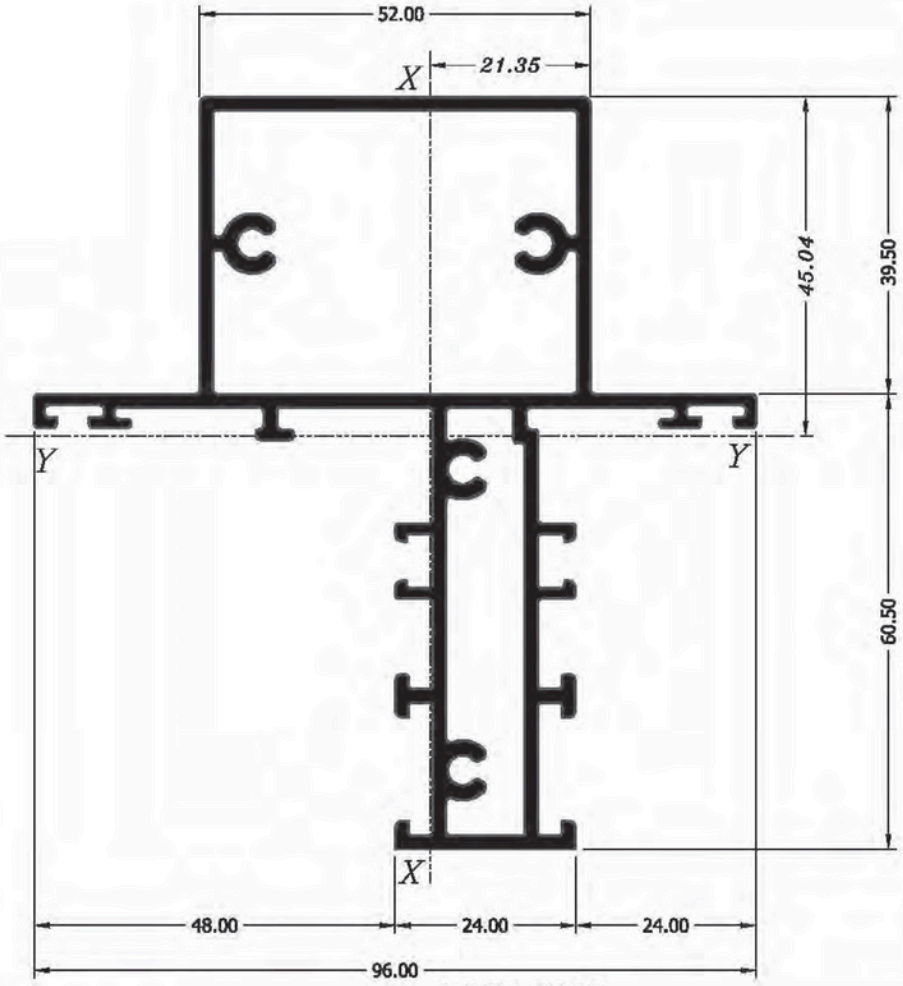
1.600 Kg./ml.

Profile No.	1 061 5710
Profile Old No.	RC 6181



1 061 5760

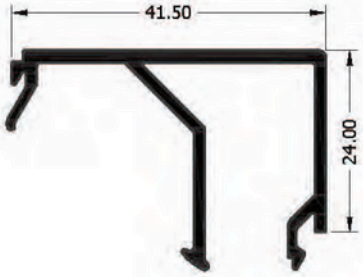
1.623 Kg./ml.



1 061 5910

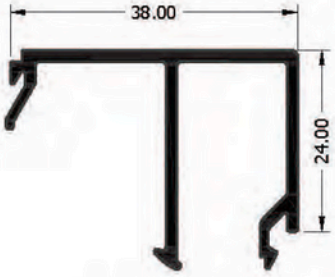
2.025 Kg./ml.

Profile No.	1 061 5910
Profile Old No.	RC 6181.1



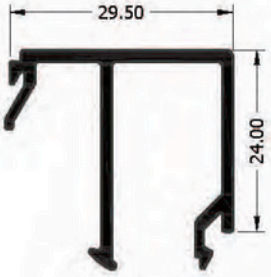
1 061 6140

0.402 Kg./ml.



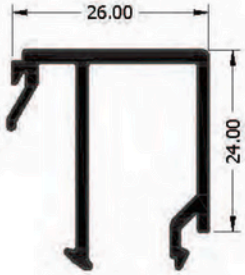
1 061 6160

0.370 Kg./ml.



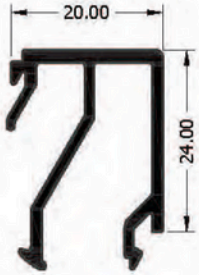
1 061 6170

0.337 Kg./ml.



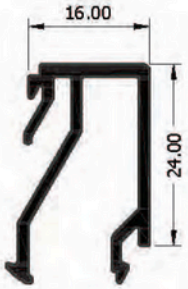
1 061 6180

0.324 Kg./ml.



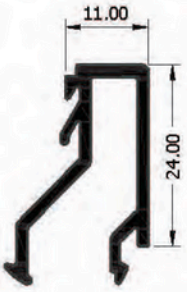
1 061 6190

0.311 Kg./ml.



1 061 6192

0.296 Kg./ml.



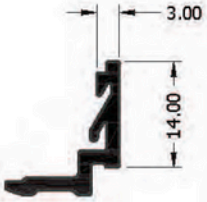
1 061 6193

0.268 Kg./ml.



1 061 6195

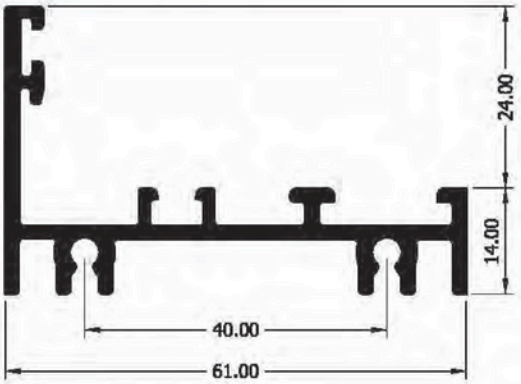
0.211 Kg./ml.



1 061 6500

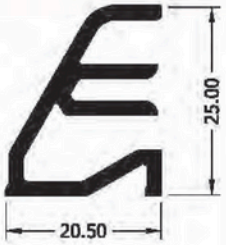
0.142 Kg./ml.

Profile No.	1 061 6140	1 061 6180	1 061 6190	1 061 6500
Profile Old No.	RC 6161	RC 6166	RC 6167	RC 6169



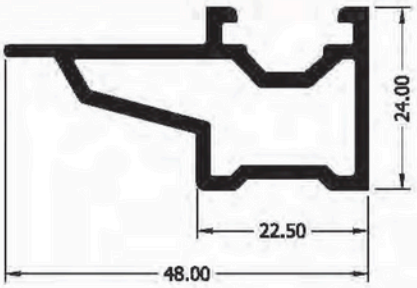
1 061 9110

0.748 Kg./ml.



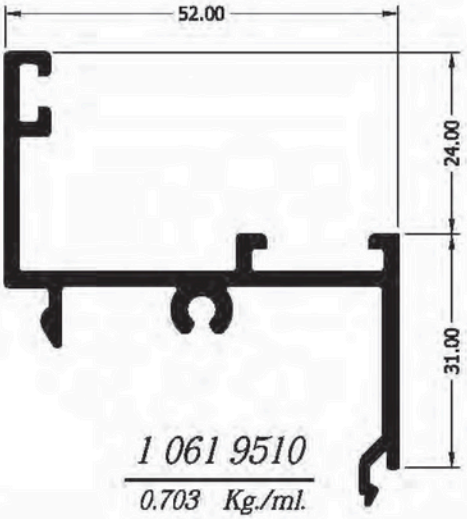
1 061 9120

0.329 Kg./ml.



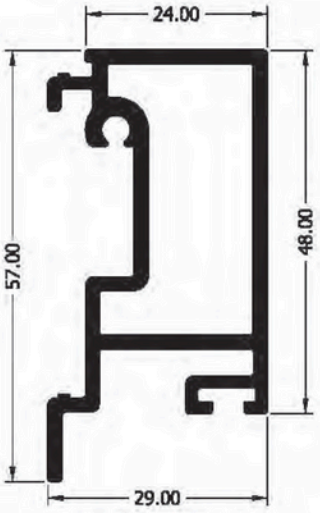
1 061 9410

0.518 Kg./ml.



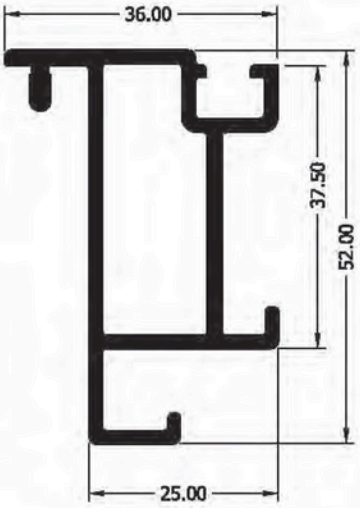
1 061 9510

0.703 Kg./ml.



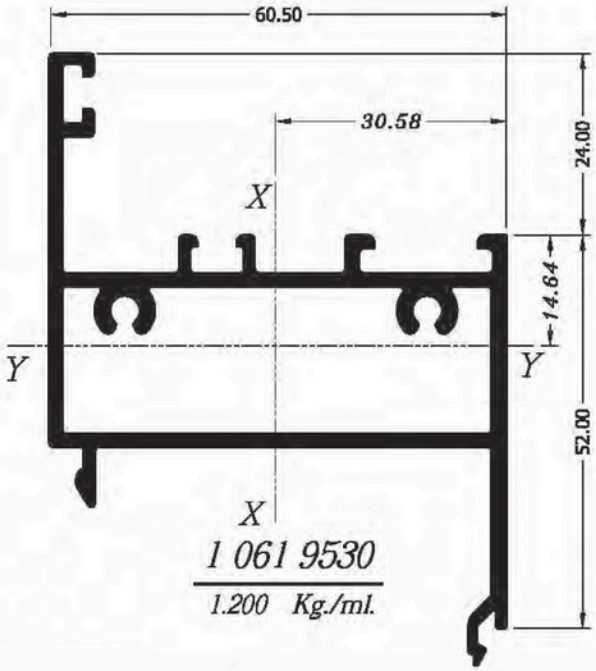
1 061 9211

0.773 Kg./ml.



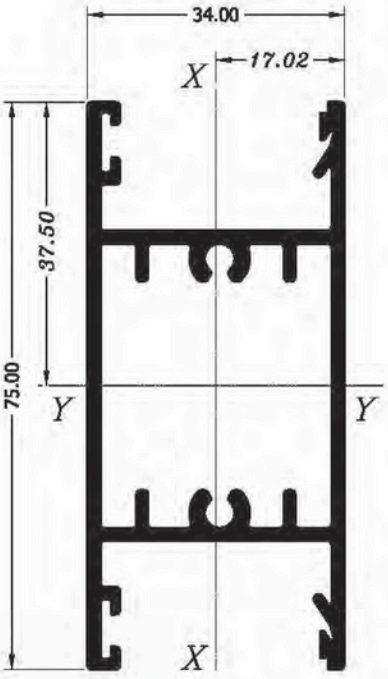
1 061 9253

0.751 Kg./ml.



1 061 9530

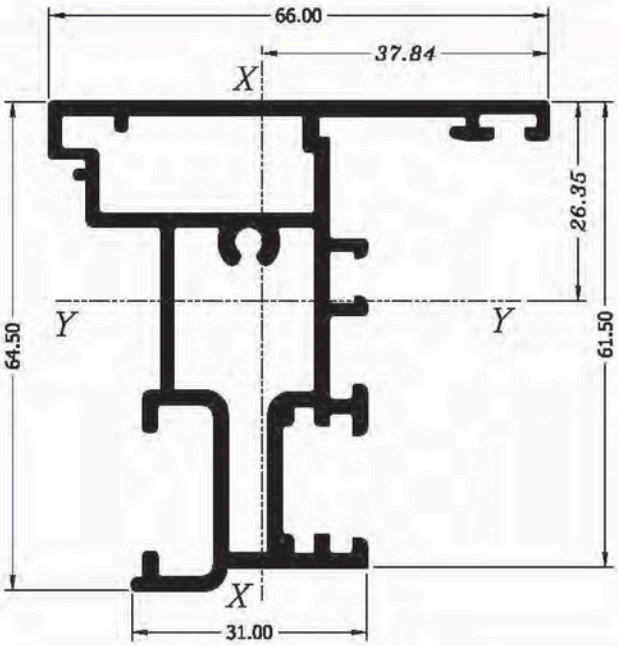
1.200 Kg./ml.



1 061 9352

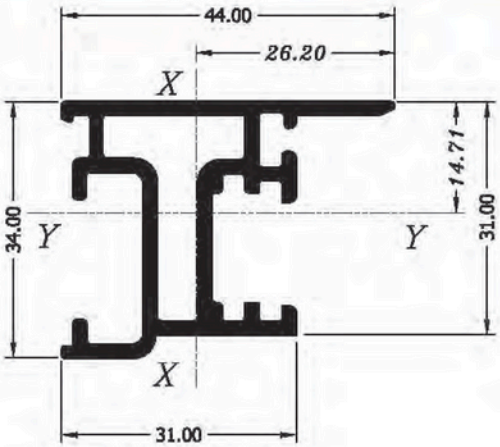
1.112 Kg./ml.

Profile No.	1 061 9410
Profile Old No.	RC 6146



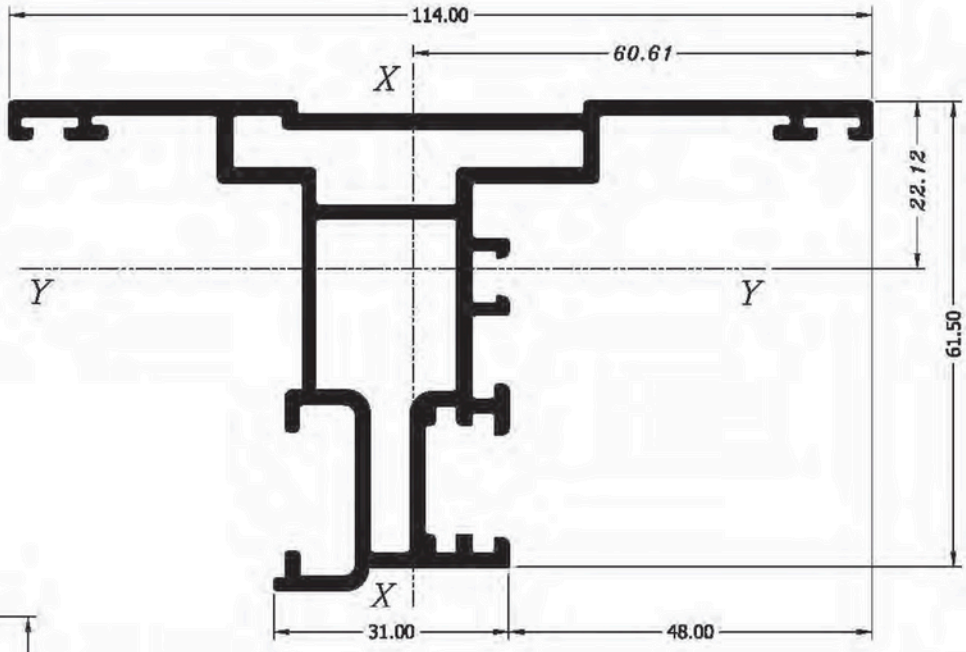
1 061 9610

1.345 Kg./ml.



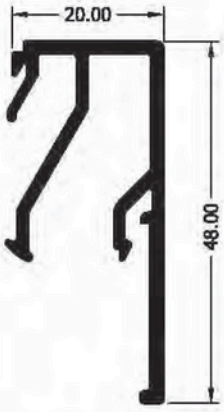
1 061 9620

0.707 Kg./ml.



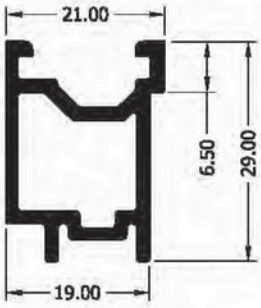
1 061 9670

1.650 Kg./ml.



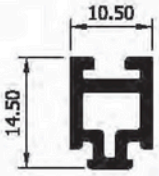
1 061 9810

0.439 Kg./ml.



1 061 9820

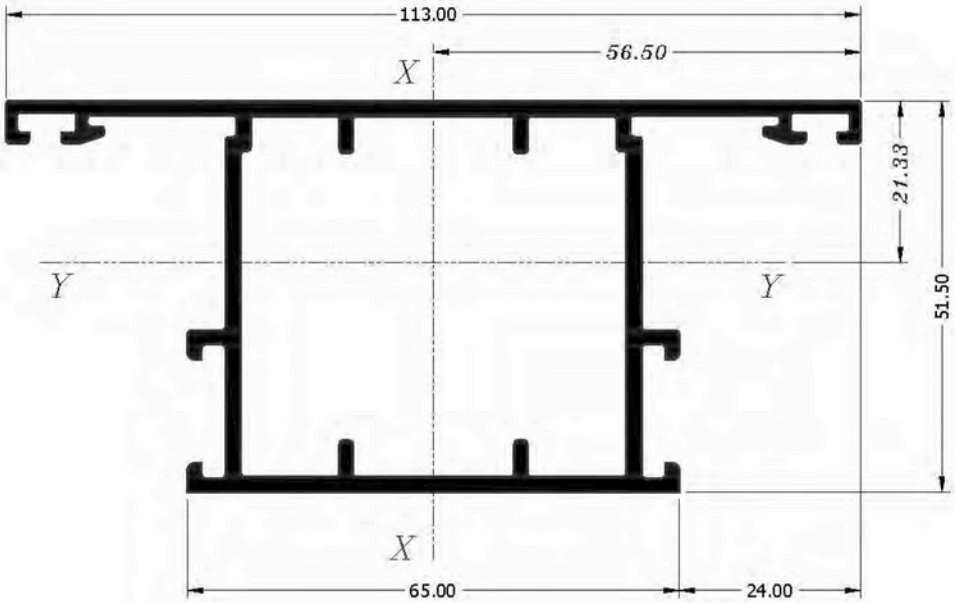
0.399 Kg./ml.



1 061 9830

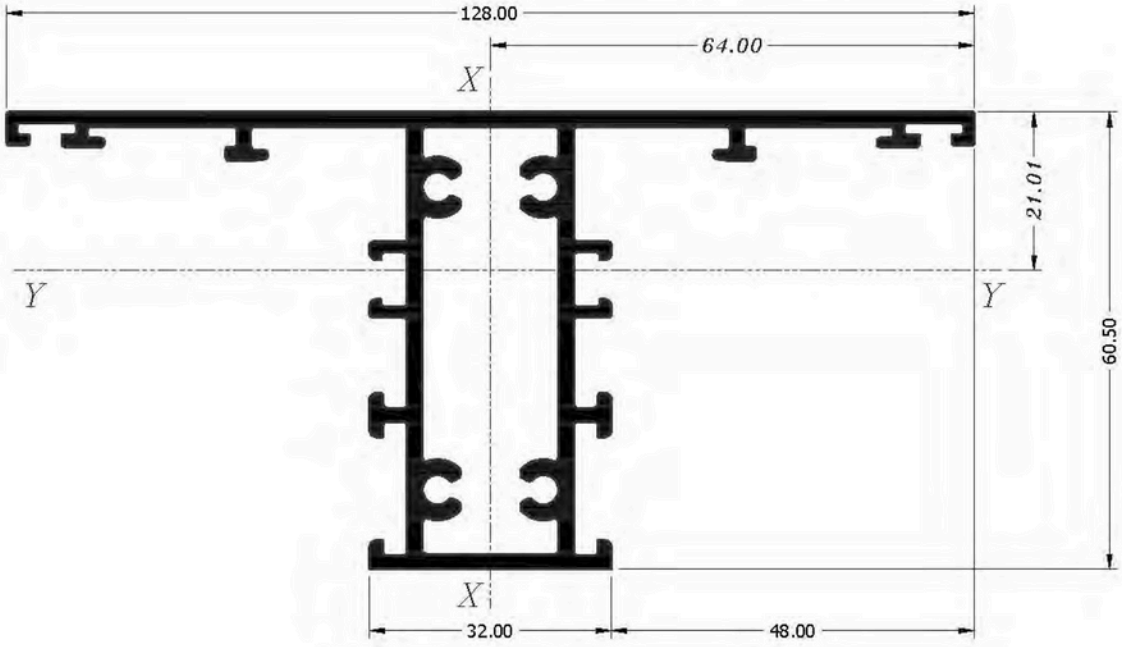
0.161 Kg./ml.

Profile No.	1 061 9610	1 061 9620	1 061 9810	1 061 9820
Profile Old No.	RC 6172	RC 6173	RC 6186	RC 6182



1 061 9702

1.595 Kg./ml.



8 061 5760

1.742 Kg./ml.

This profile is
specially produced for rolling machines

SONATA 45

Hinged System



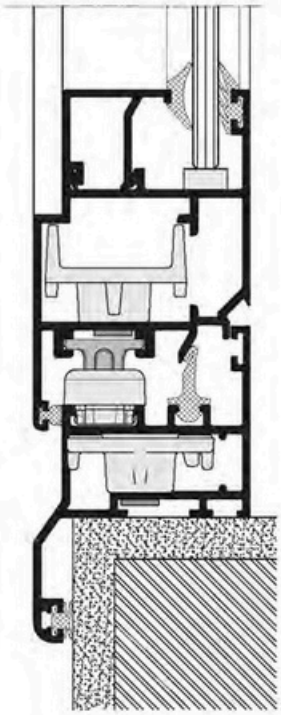
- Wide variety of frames and sashes in design and aesthetic shapes that match the architectural trends while offering a full range of accessories for various types of openings.
- Offers a solution for every standard application for inward and outward opening windows and flush doors.
- Offers integrated inward or outward hinged doors solution with facade systems adding an aesthetic value to the glass facades.
- Used for doors and windows with medium to large openings.

Technical Characteristics

Frame	Depth	45 mm. to 154 mm.
	Height	46 mm. to 116 mm.
Sash	Depth	46 mm. to 52 mm.
	Height	64 mm. to 100 mm.
Max Glass Thickness	Up to 44 mm.	
Max Sash Weight	Up to 160 kg.	
Sealing Type	EPDM gasket with central gasket	

Complies with European norm hEN 1435-1

Air Permeability	(Class 4) up to 600 pa.
Water Tightness	(Class E900) up to 900 pa.
Resistance to wind load	(Class C4) up to 1600 pa.



EUROPEAN CERTIFYING ORGANIZATION S.P.A.
NOTIFIED TESTING LABORATORY N. 0714
FOR REGULATION (EU) No 305/2011

CLASSIFICATION ASSESSMENT
N. 0714-CPR-1288 DATED AUGUST, 05 2015

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, that replaces Council Directive 89/106/EEC and lays down conditions for the placing or making available on the market of construction products by establishing harmonised rules on how to express their performance in relation to their essential characteristics and taking account of the horizontal legal framework for the marketing of products in the internal market, established by Regulation (EC) No. 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products, as well as by Decision No. 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products,
and in compliance with hEN 14351-1:2006 – A1:2010 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics, which is currently in force,
European Certifying Organization S.p.A., notified laboratory NB 0714, carried out the following:

type-testing

for the determination of the essential characteristics

Air Permeability – Water tightness – Resistance to Wind Load

on the below mentioned external pedestrian doorset without resistance to fire and/or smoke leakage characteristics
In compliance with EN 12207:1999, EN 12208:1999, EN 12210:1999 – Classification,
EN 1026:2000, EN 1027:2000, EN 12211:2000 – Tests and calculations
System of assessment and verification of constancy of performance 3

The specimen, as provided by the Manufacturer, was identified as follows:

DESCRIPTION OF THE PRODUCT

Type:	Single hinged window, inward opening.
Model:	SONATA 45 Width= 800 mm, Height = 1,200 mm, Thickness = 53 mm
Fabrication number:	-
Date of fabrication:	2015

Taking into account the documentation submitted by the Manufacturer and on the basis of the results of the type-testing carried out, as described in the laboratory report ECO CP0025/1, dated August, 05 2015, in accordance with Annex ZA of hEN 14351-1:2006 – A1:2010 and with the EN 12207:1999, EN 12208:1999 and EN 12210:1999 classification, to the specimen, as previously identified.

THE FOLLOWING CLASSIFICATION IS AWARDED

AIR PERMEABILITY:	**CLASS 4**
WATERTIGHTNESS:	**CLASS E900**
RESISTANCE TO WIND LOAD:	**CLASS C4**

The results refer only to the specimen that has been provided by the Manufacturer and submitted to type-testing listed above.
This classification assessment consists of 1 page and its reproduction is permitted in full only.

Faenza, August, 05, 2015

The undersigned ECO Certificazioni S.p.A.

Eng. Gianluca Campanella

ECO CERTIFICAZIONI S.p.A. - ITALY - Via Mengolina, 33 - FAENZA (RA) - www.eco-cert.it

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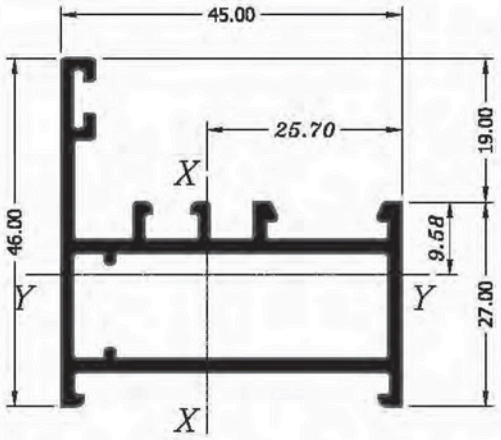
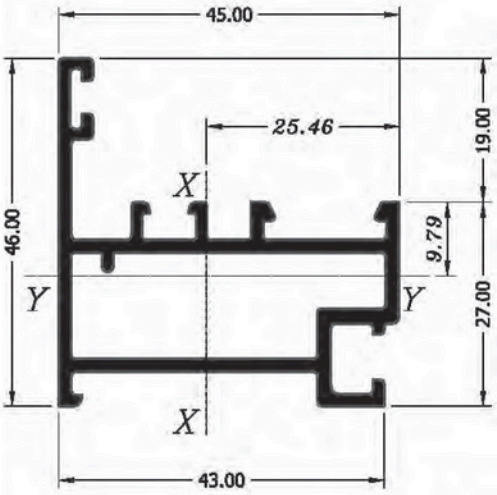
48018 Faenza (RA) - ITALY
Tel. +39 0546 624911 - Fax +39 0546 624922
E-mail: info@eco-cert.it - www.ecocertificazioni.eu



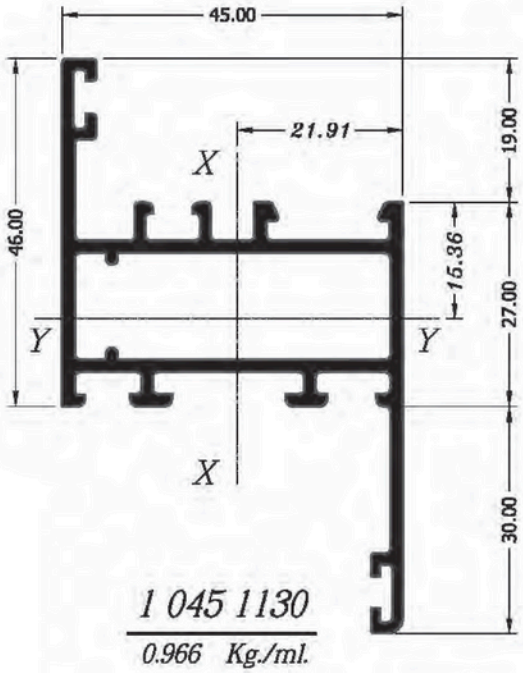
1 045 1100

0.764 Kg./ml.



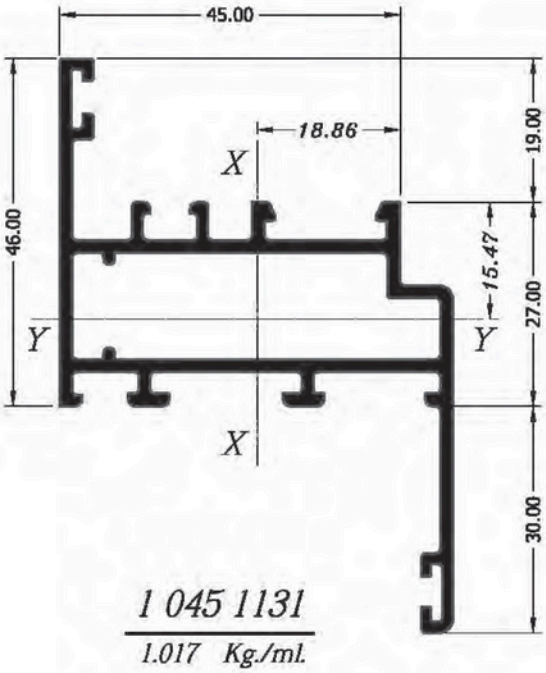
1 045 1110

0.792 Kg./ml.



1 045 1130

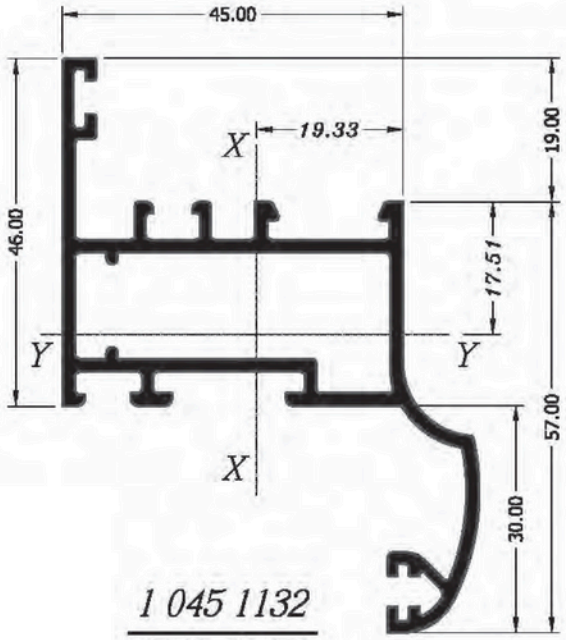
0.966 Kg./ml.



1 045 1131

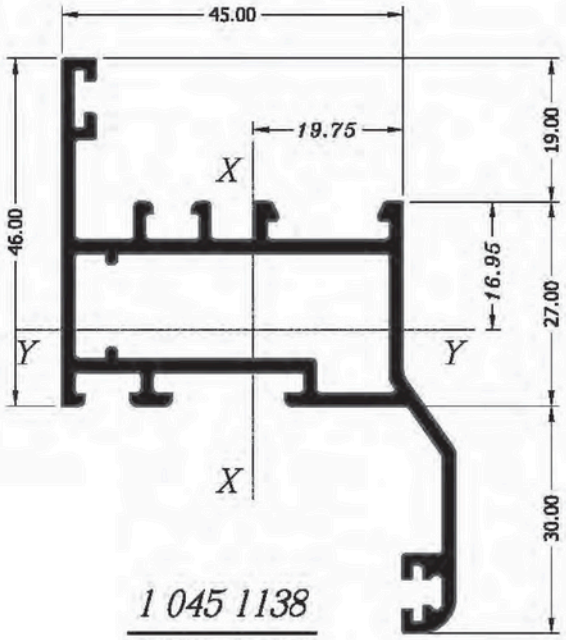
1.017 Kg./ml.

Profile No.	1 045 1100	1 045 1130	1 045 1131
Profile Old No.	SH 4510	SH 4511	SH 4513



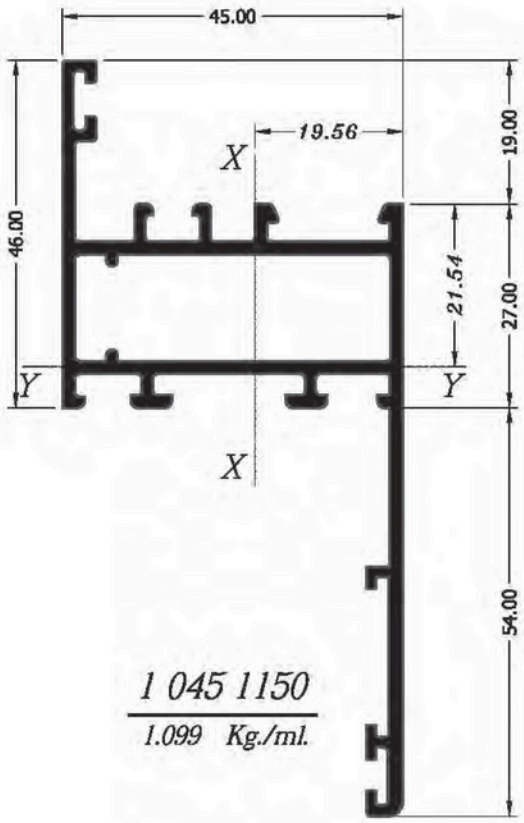
1 045 1132

1.040 Kg./ml.



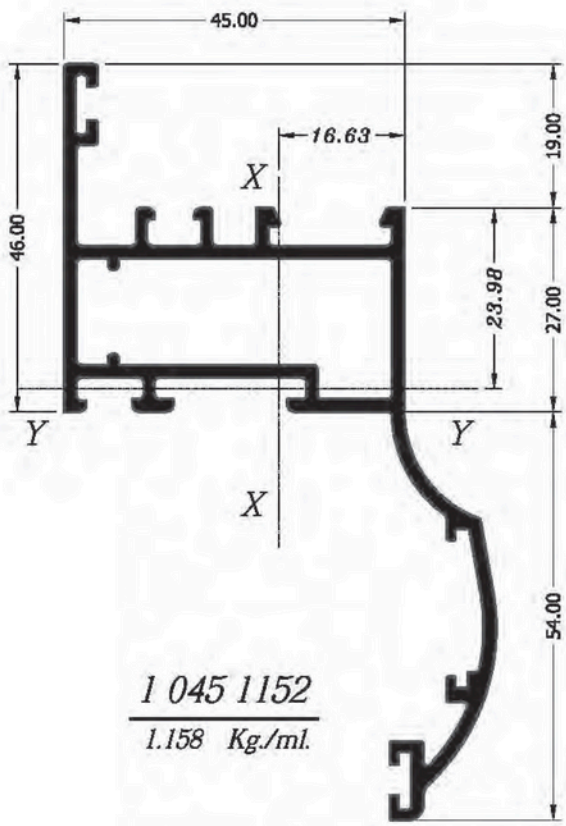
1 045 1138

1.015 Kg./ml.



1 045 1150

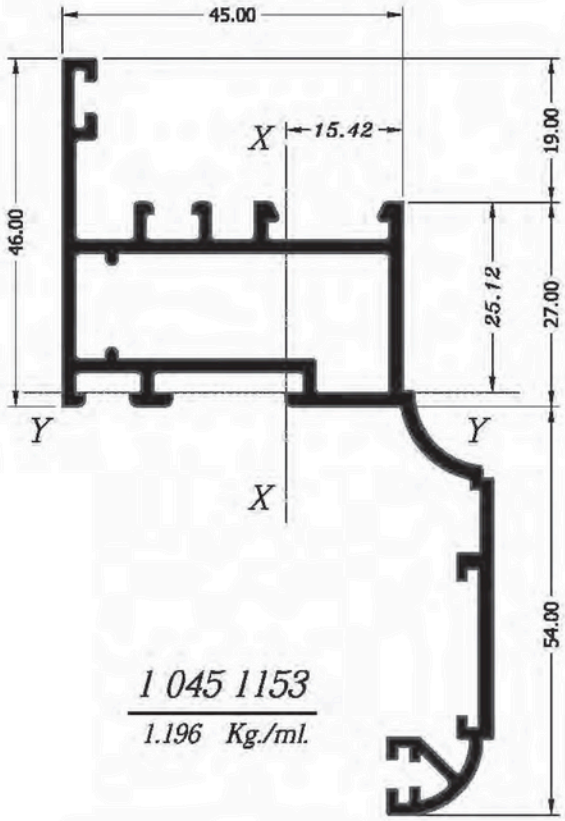
1.099 Kg./ml.



1 045 1152

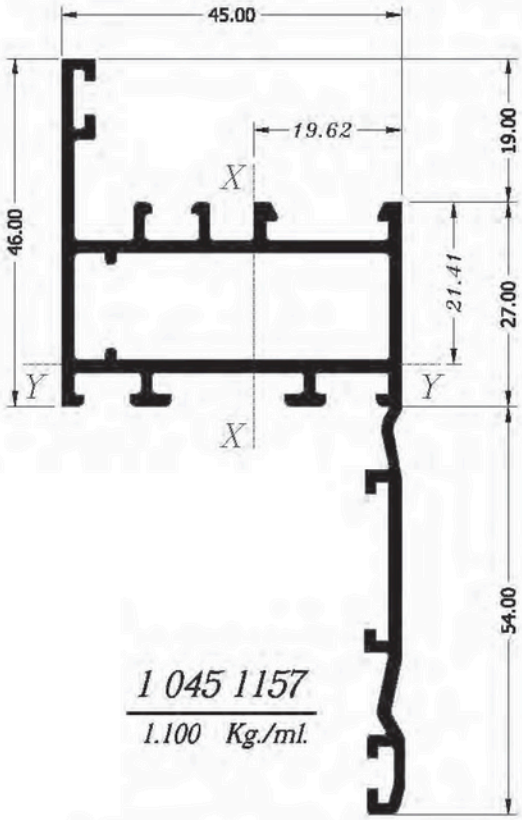
1.158 Kg./ml.

Profile No.	1 045 1132	1 045 1138	1 045 1150	1 045 1152
Profile Old No.	SH 4511.2	SH 4511.3	SH 4512	SH 4512.2



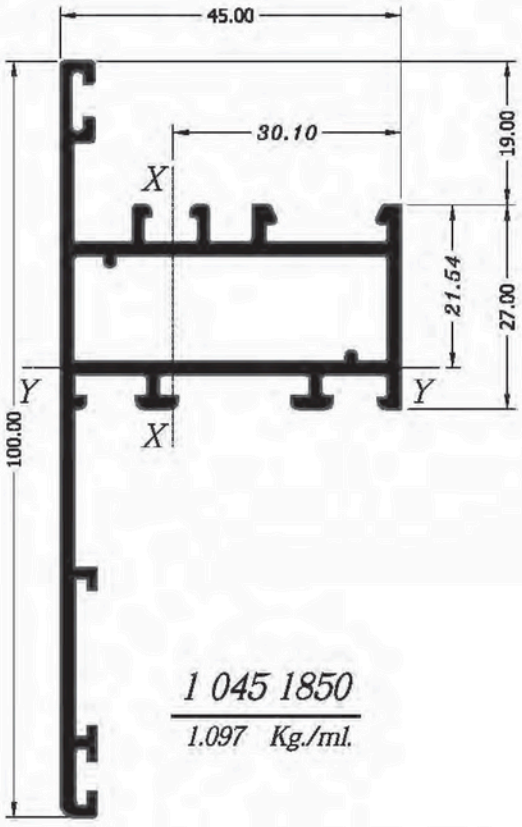
1 045 1153

1.196 Kg./ml.



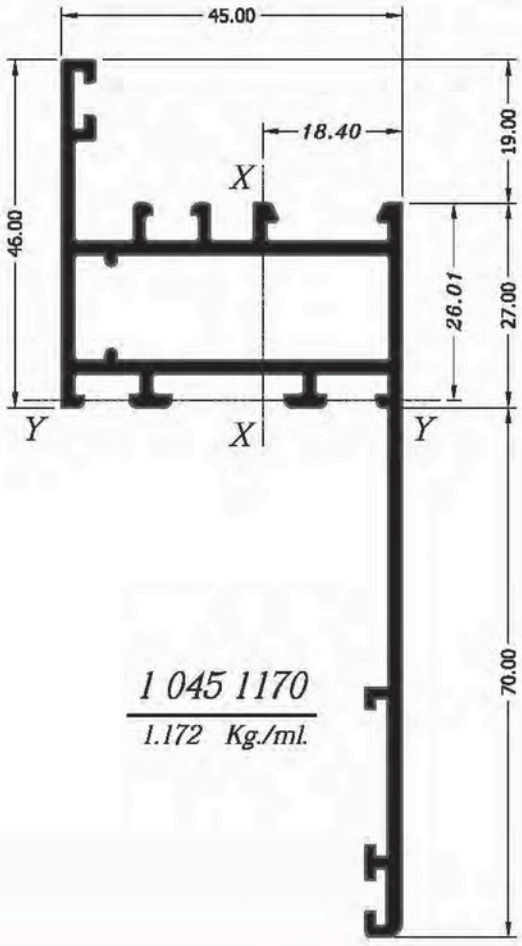
1 045 1157

1.100 Kg./ml.



1 045 1850

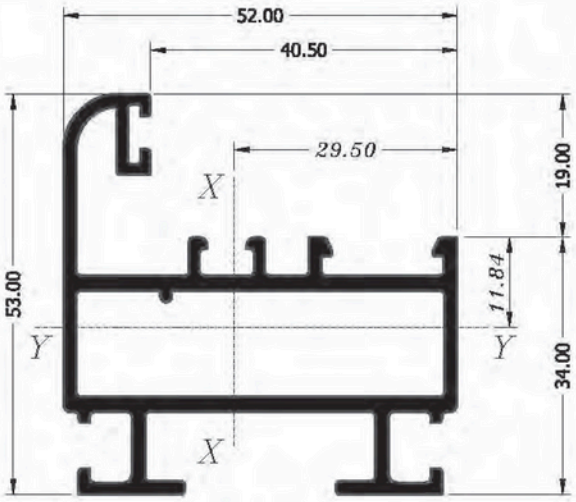
1.097 Kg./ml.



1 045 1170

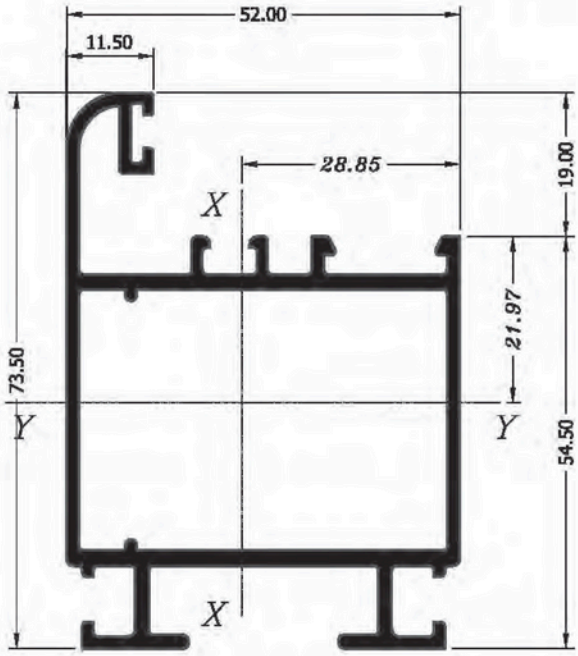
1.172 Kg./ml.

Profile No.	1 045 1153
Profile Old No.	SH 4512.3



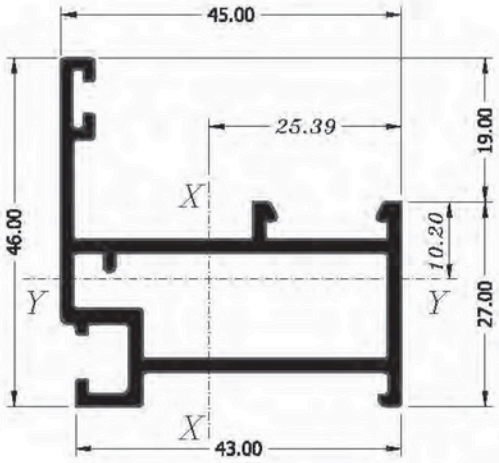
1 045 1420

1.064 Kg./ml.



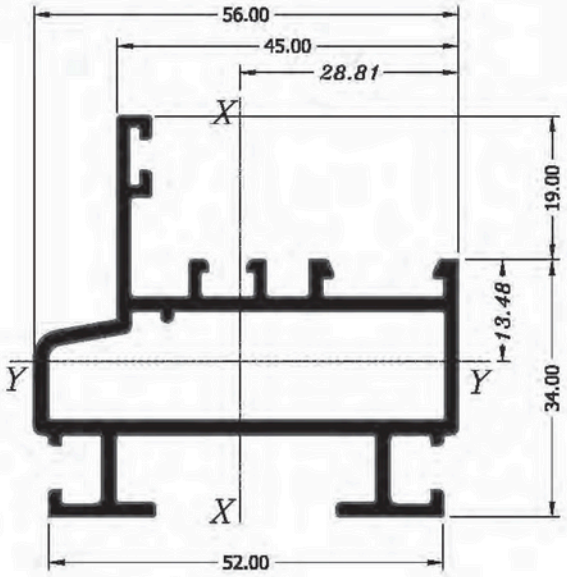
1 045 1520

1.320 Kg./ml.



1 045 1810

0.791 Kg./ml.



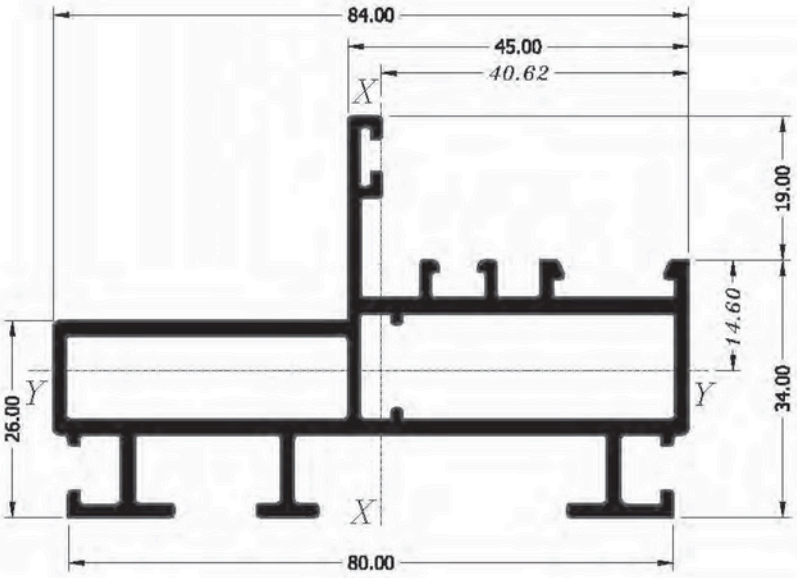
1 045 2062

0.995 Kg./ml.

Profile No.	1 045 1420	1 045 1520
Profile Old No.	SH 4514	SH 4518

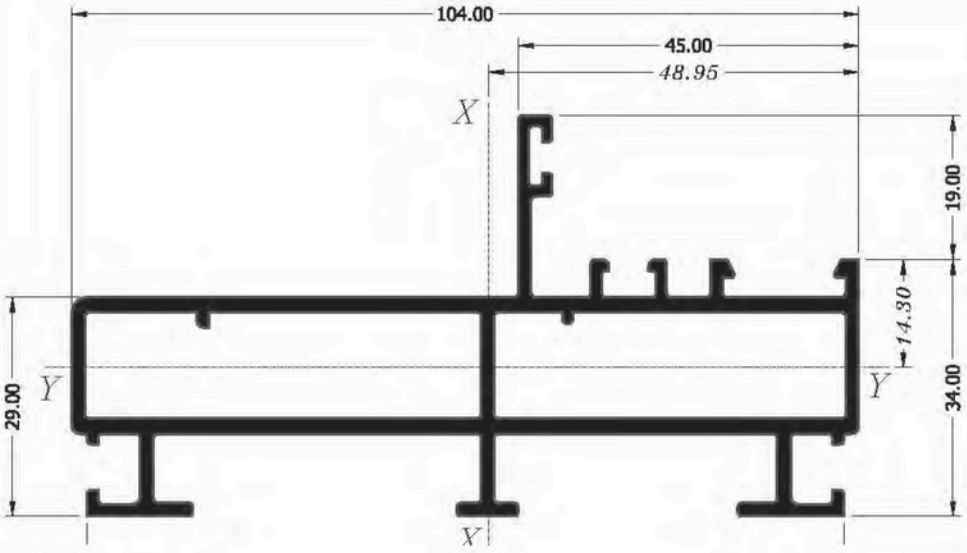
1 045 2082

1.345 Kg./ml.

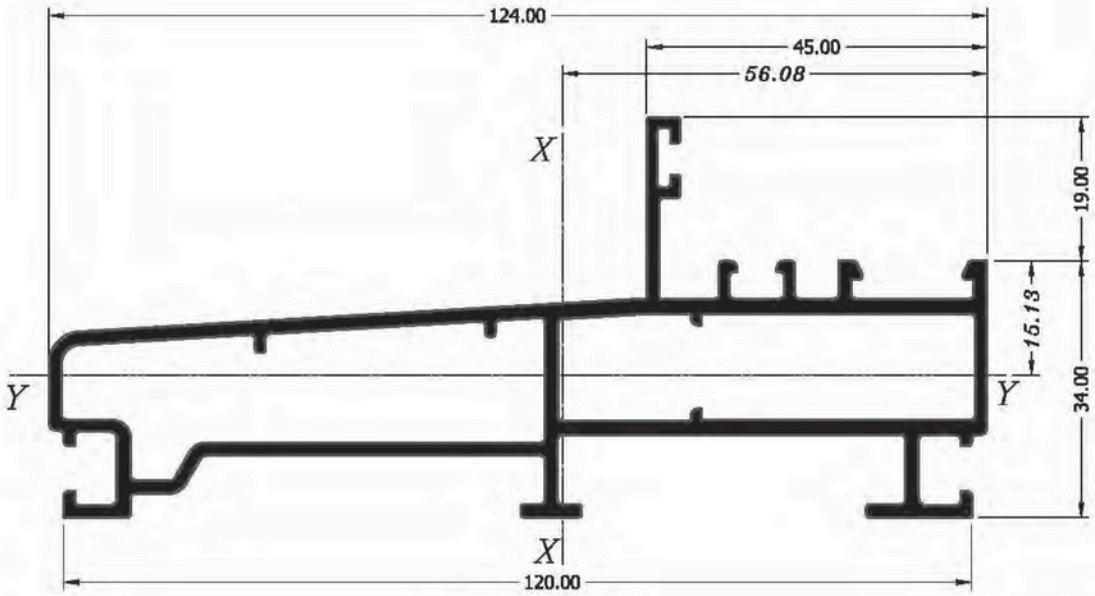


1 045 2102

1.539 Kg./ml.

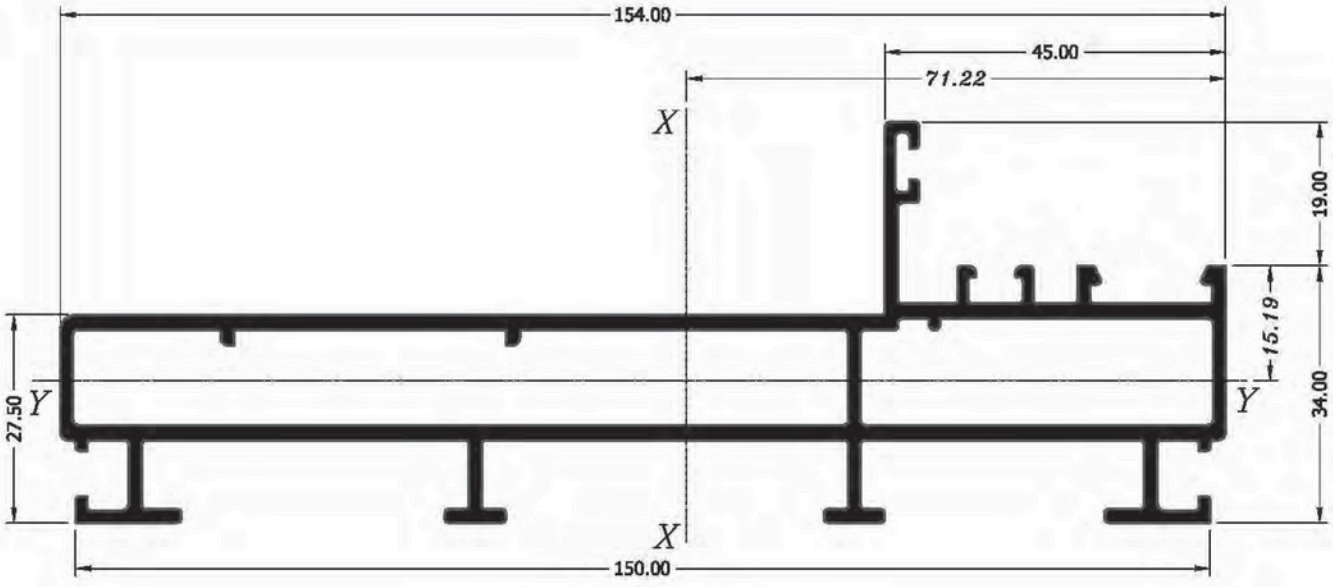


Profile No.	1 045 2082	1 045 2102
Profile Old No.	SH 8045	SH 8096



1 045 2122

1.612 Kg./ml.



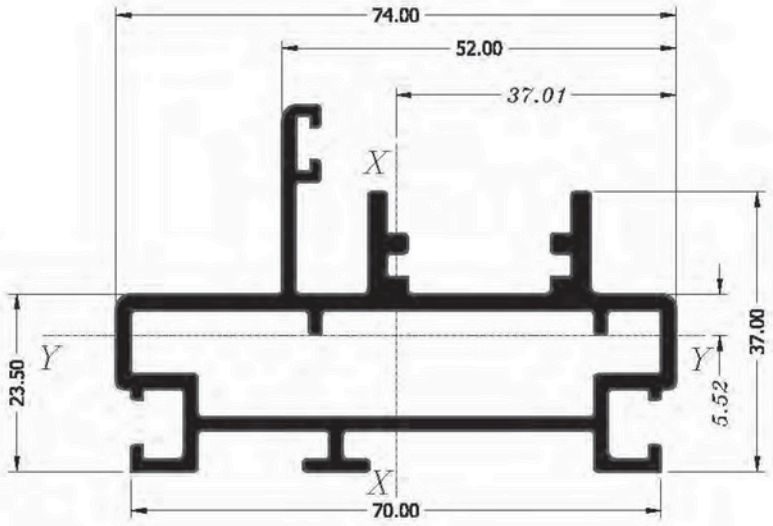
1 045 2152

2.100 Kg./ml.

Profile No.	1 045 2122
Profile Old No.	SH 8093

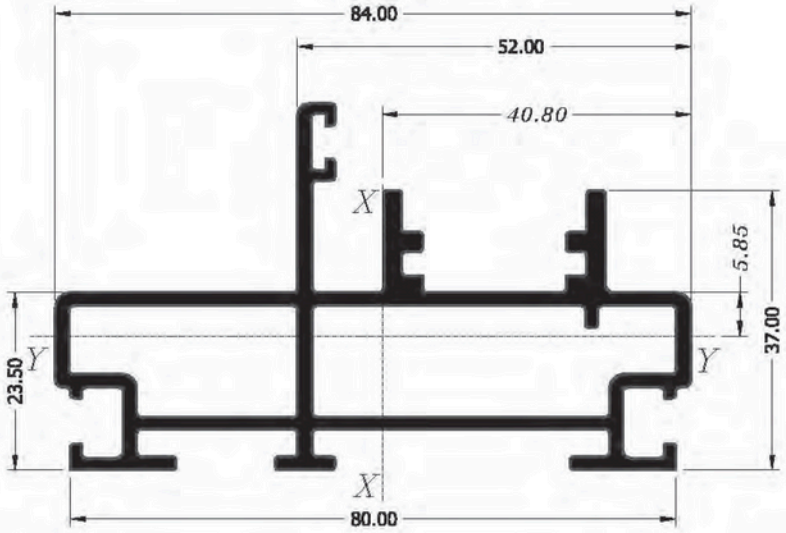
1 045 2672

1.523 Kg./ml.



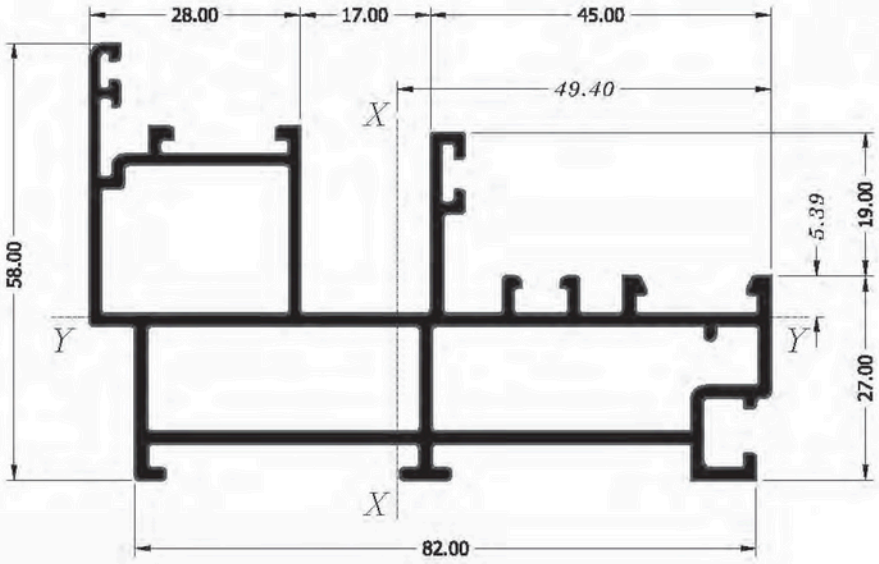
1 045 2682

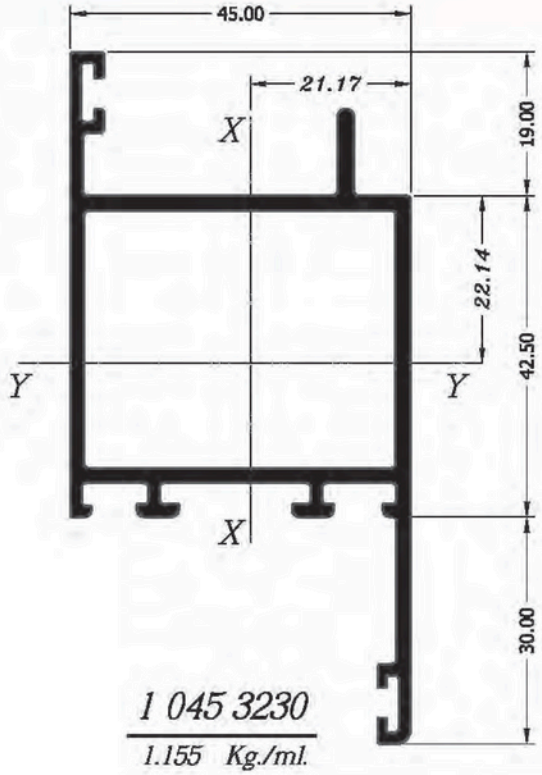
1.592 Kg./ml.



1 045 7181

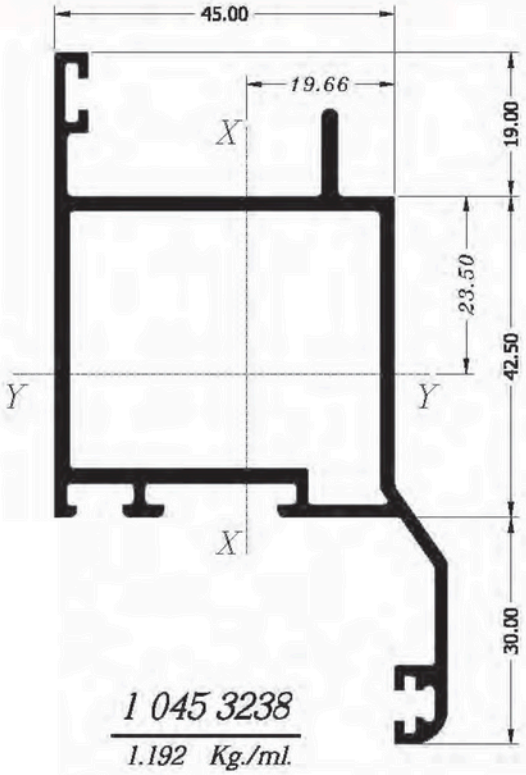
1.515 Kg./ml.





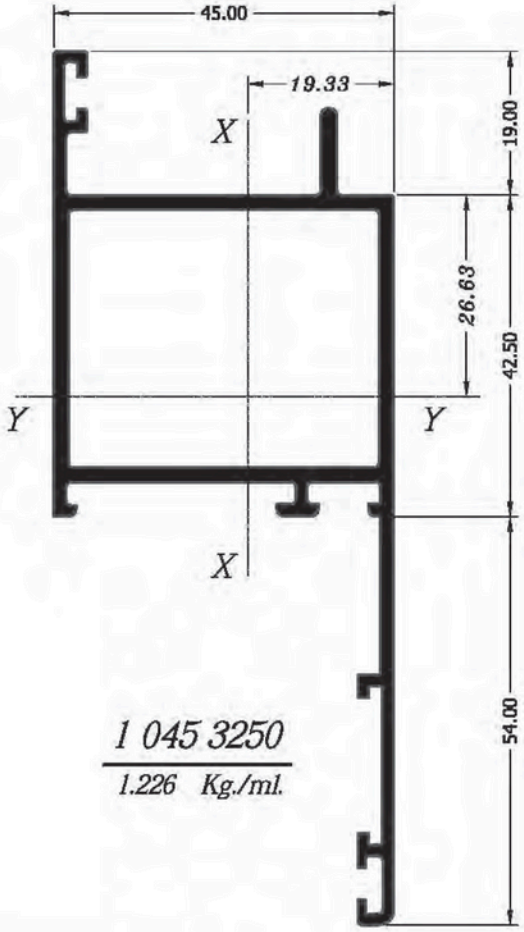
1 045 3230

1.155 Kg./ml.



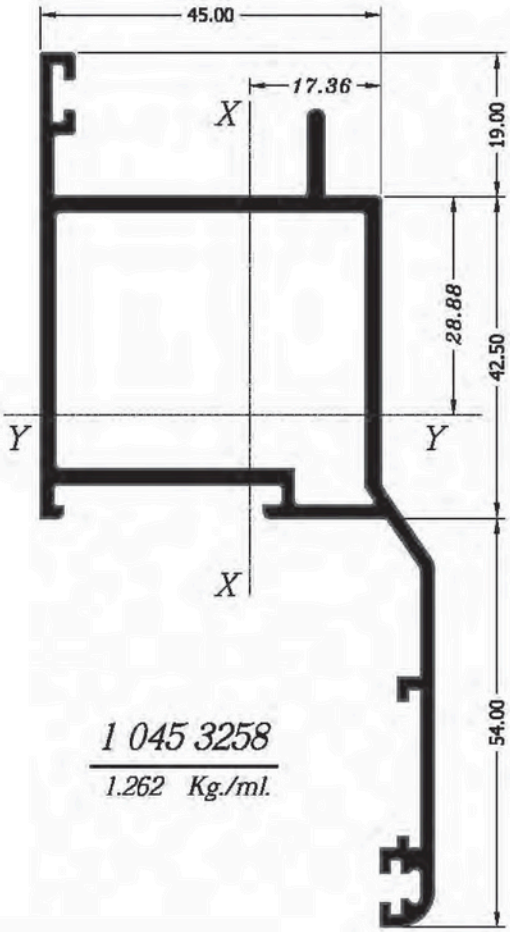
1 045 3238

1.192 Kg./ml.



1 045 3250

1.226 Kg./ml.



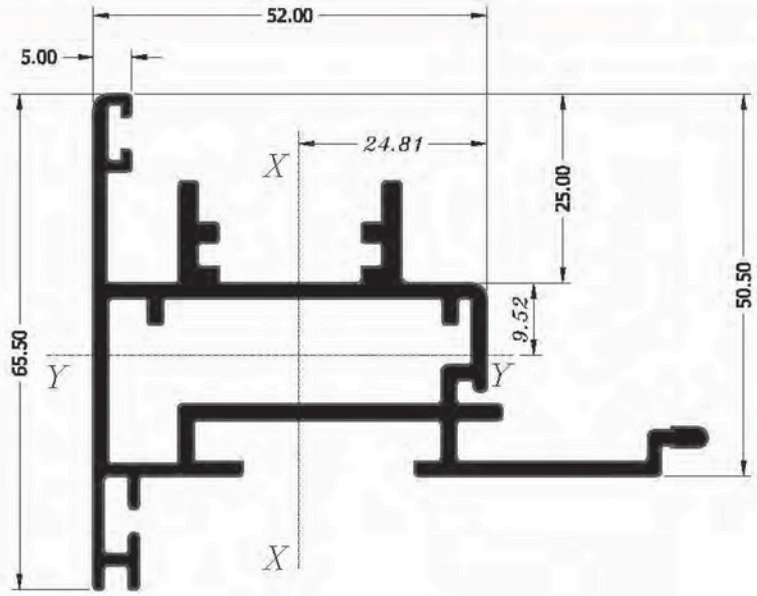
1 045 3258

1.262 Kg./ml.

Profile No.	1 045 3230	1 045 3250
Profile Old No.	SH 4531	SH 4532

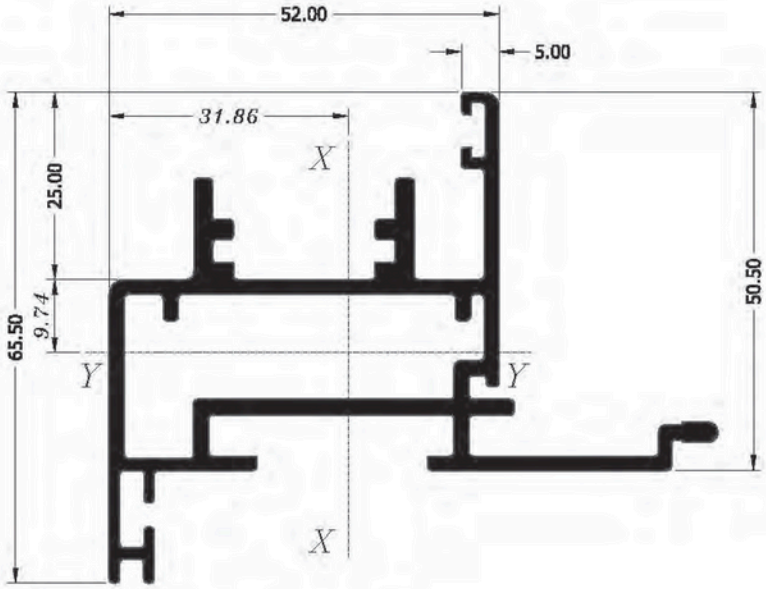
1 045 3611

1.428 Kg./ml.



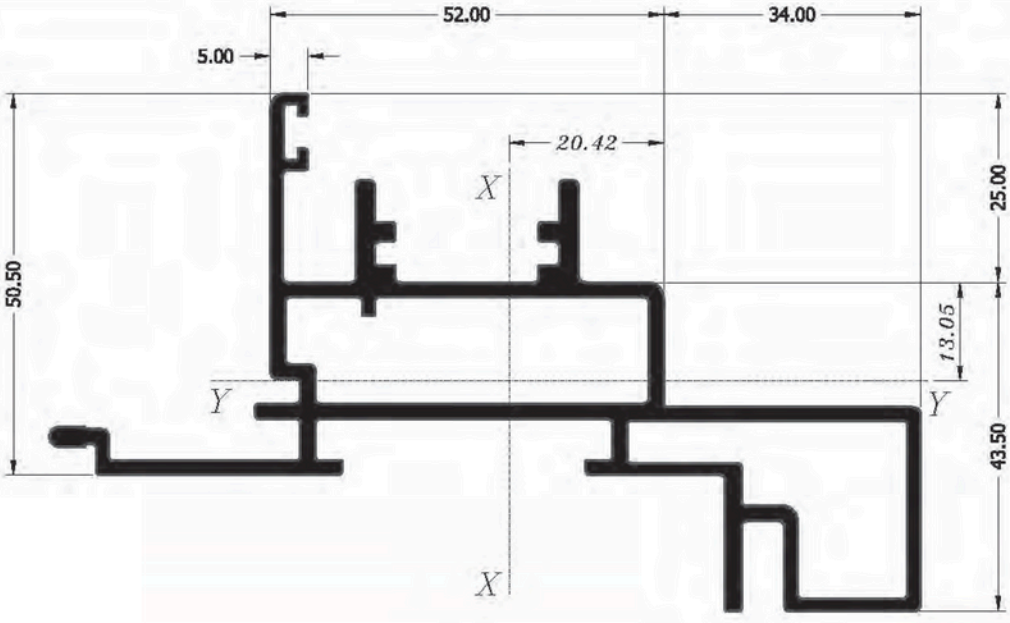
1 045 3616

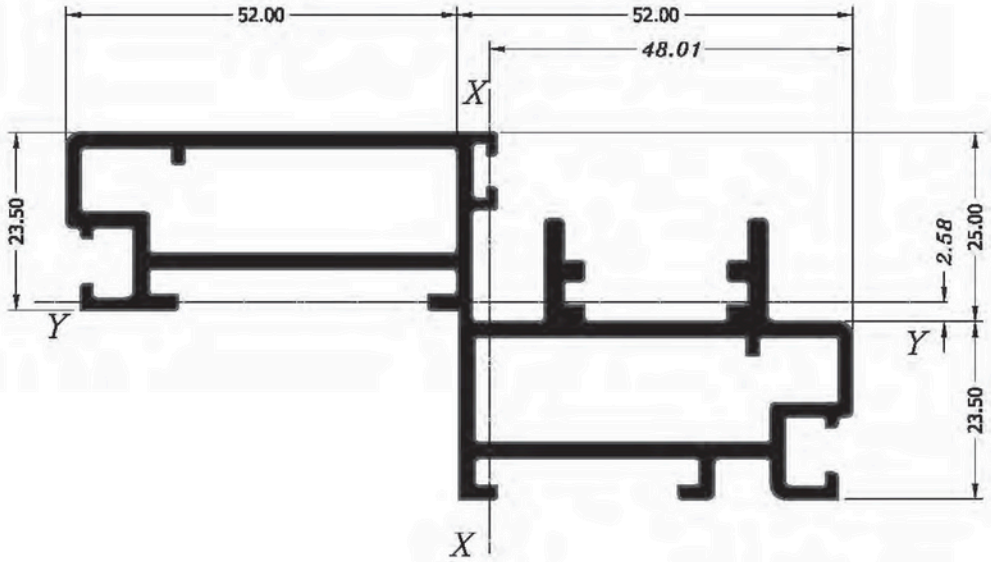
1.428 Kg./ml.



1 045 3619

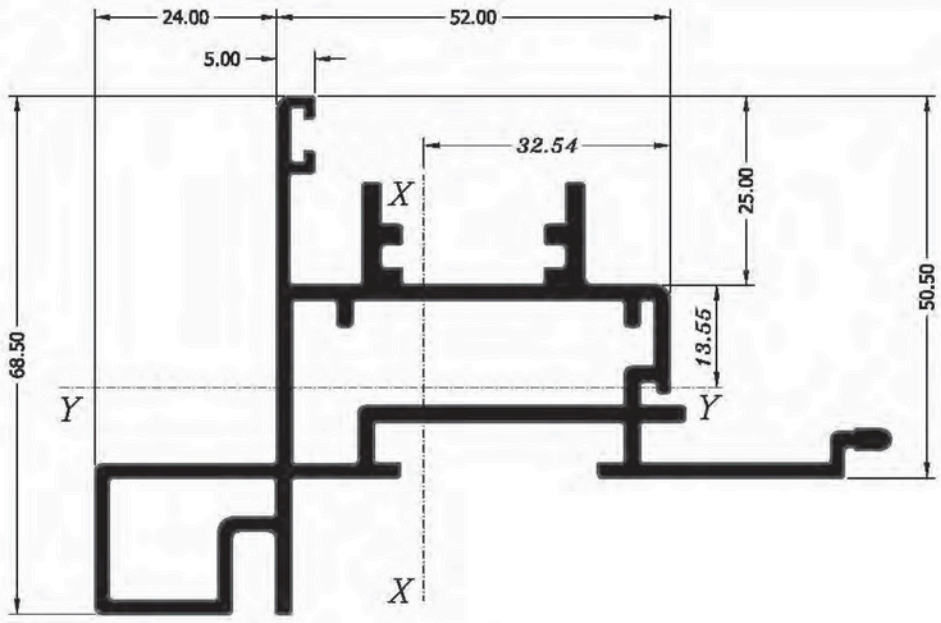
1.835 Kg./ml.





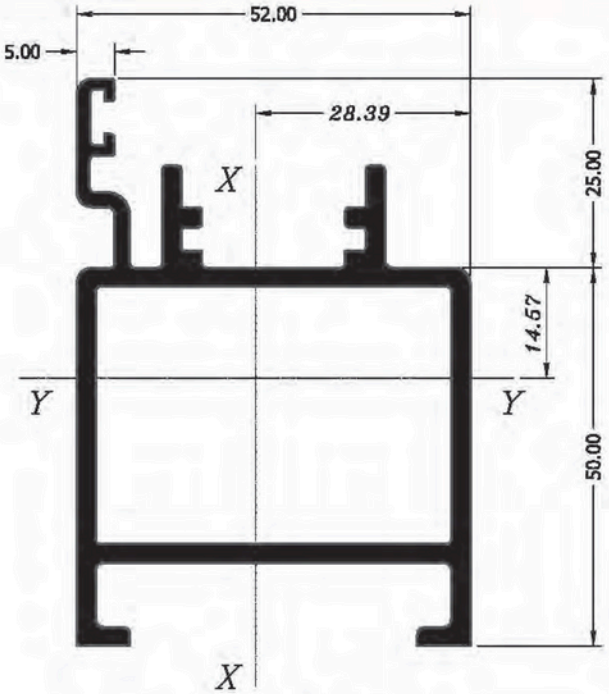
1 045 3623

1.839 Kg./ml.



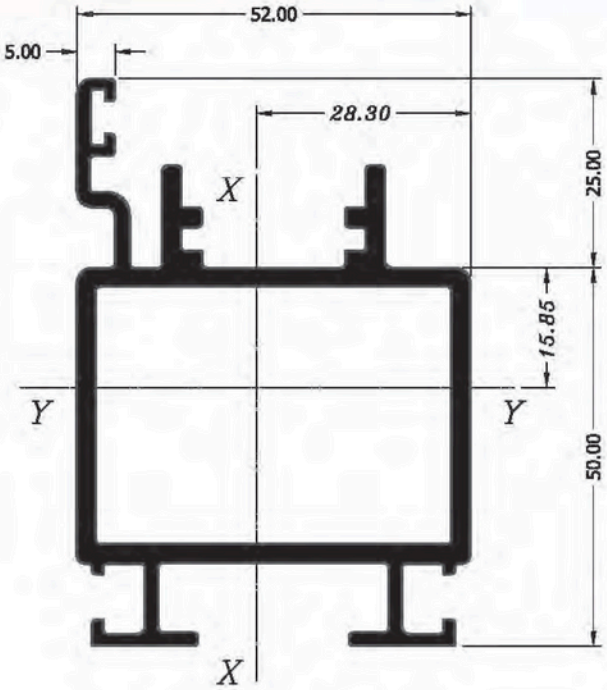
1 045 3692

1.792 Kg./ml.



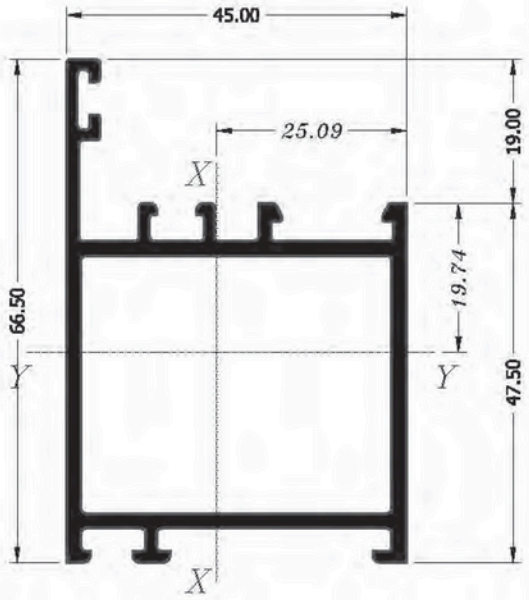
1 045 3700

1.420 Kg./ml.



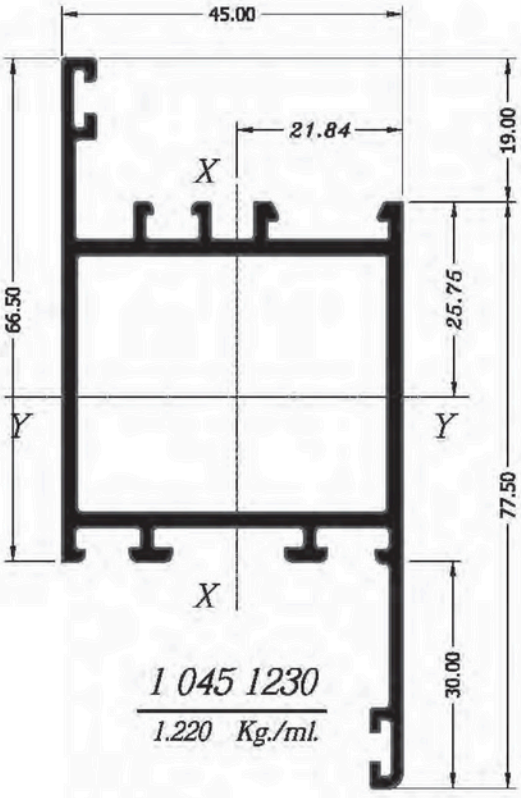
1 045 3720

1.478 Kg./ml.



1 045 1200

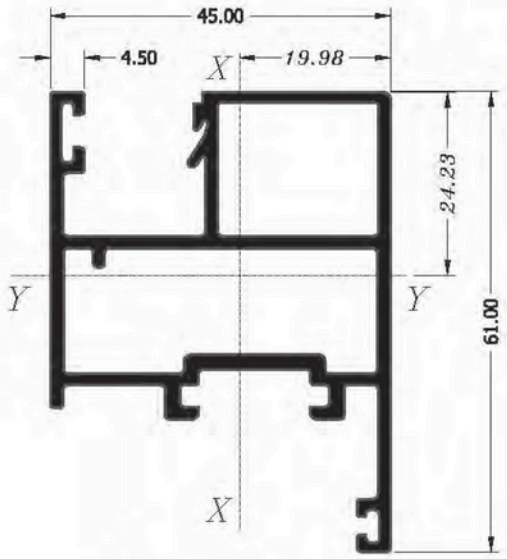
1.042 Kg./ml.



1 045 1230

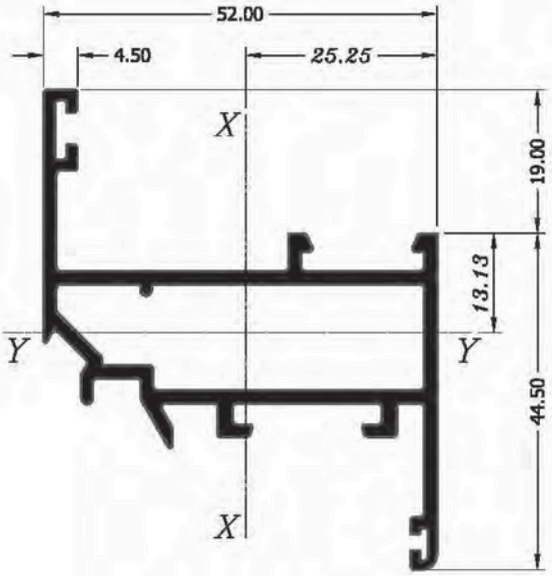
1.220 Kg./ml.

Profile No.	1 045 1200	1 045 1230	1 045 3700	1 045 3720
Profile Old No.	SH 4515	SH 4516	SH 4517	SH 4519



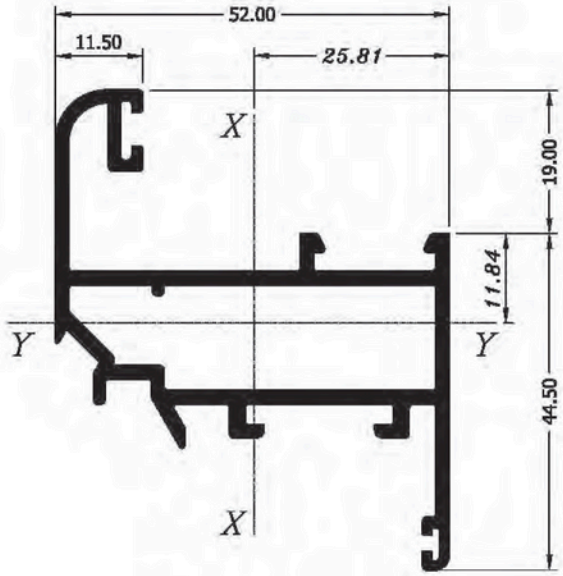
1 045 4040

1.080 Kg./ml.



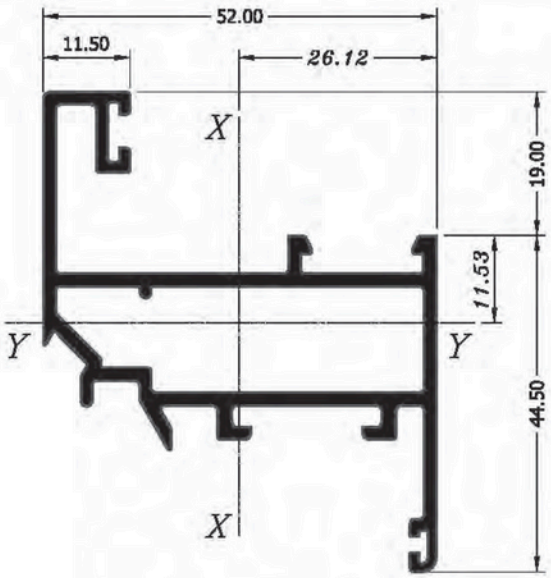
1 045 4100

0.929 Kg./ml.



1 045 4112

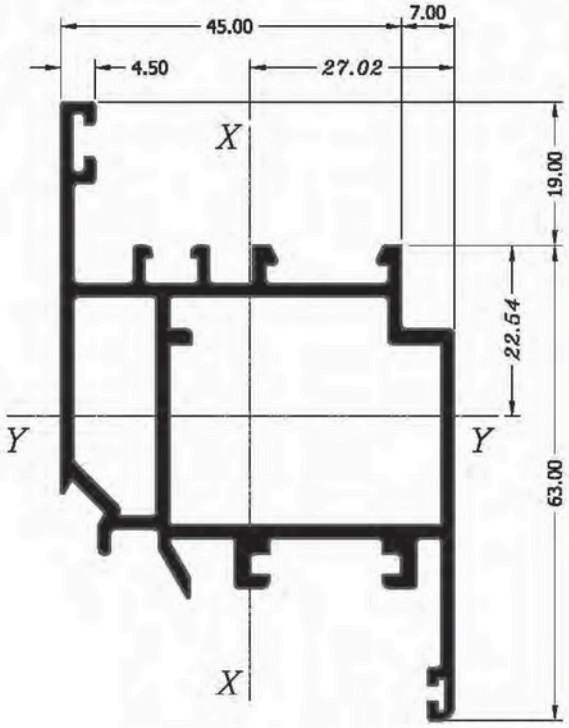
0.986 Kg./ml.



1 045 4119

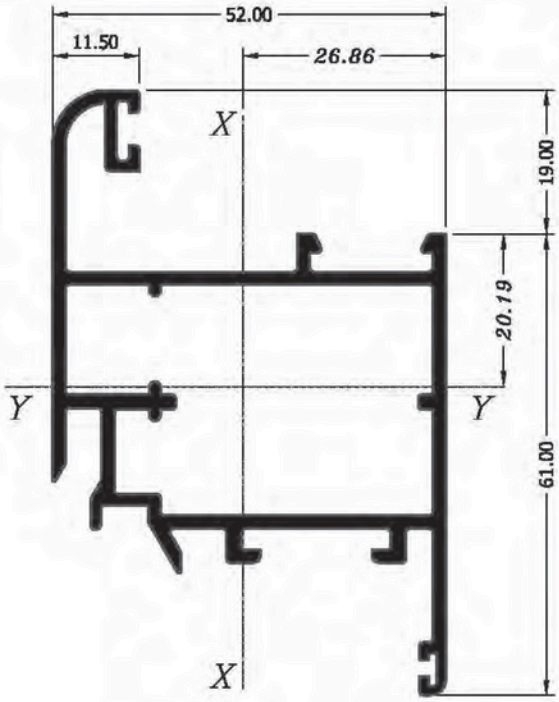
0.996 Kg./ml.

Profile No.	1 045 4100	1 045 4112
Profile Old No.	SH 4521	SH 4522



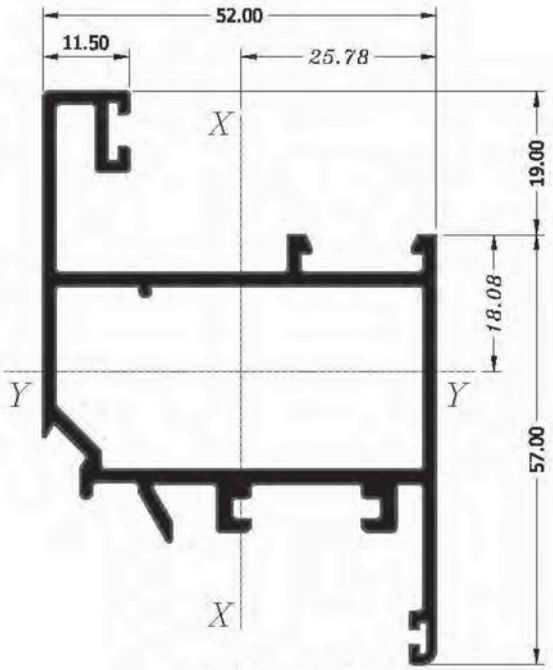
1 045 4121

1.297 Kg./ml.



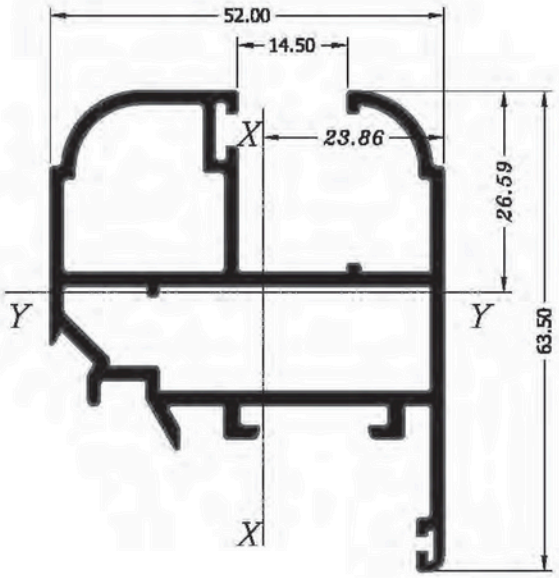
1 045 4122

1.223 Kg./ml.



1 045 4129

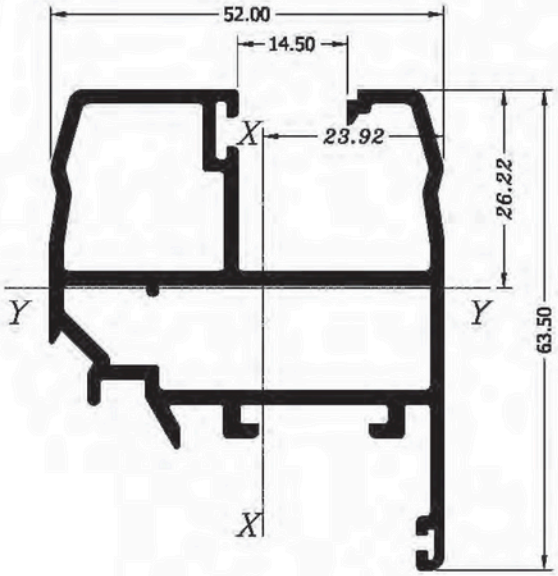
1.149 Kg./ml.



1 045 4143

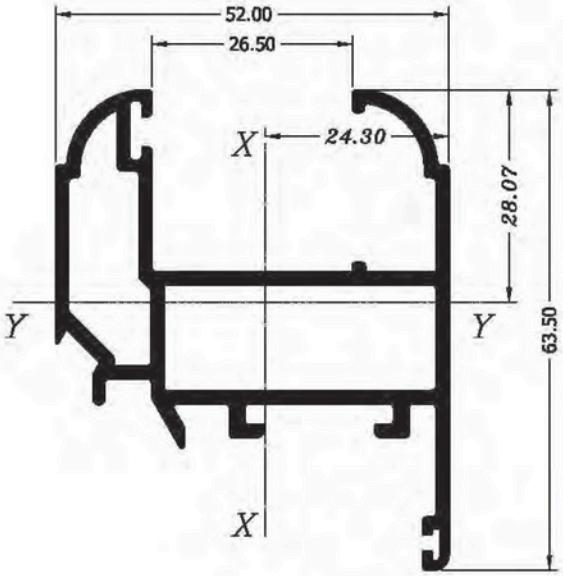
1.177 Kg./ml.

Profile No.	1 045 4121	1 045 4122	1 045 4143
Profile Old No.	SH 4549	SH 4527	SH 4524



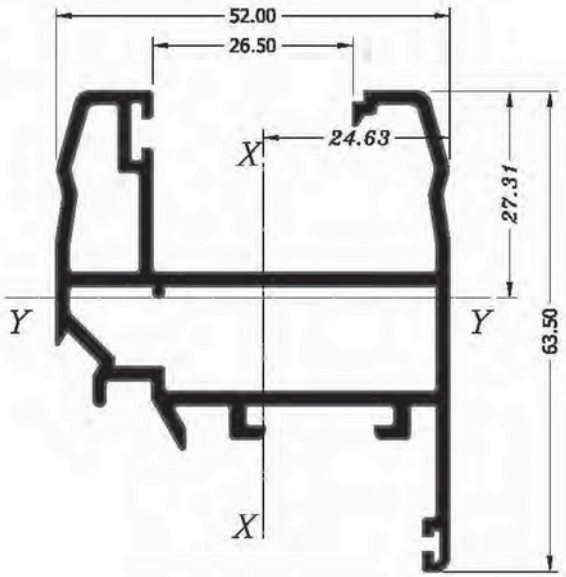
1 045 4147

1.187 Kg./ml.



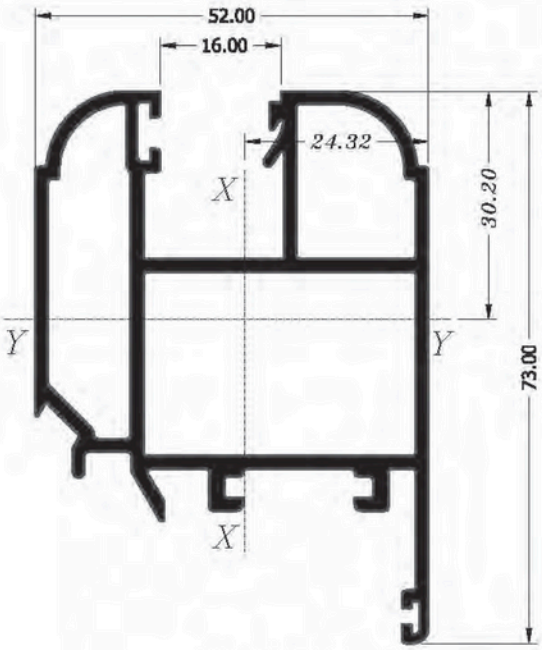
1 045 4153

1.126 Kg./ml.



1 045 4157

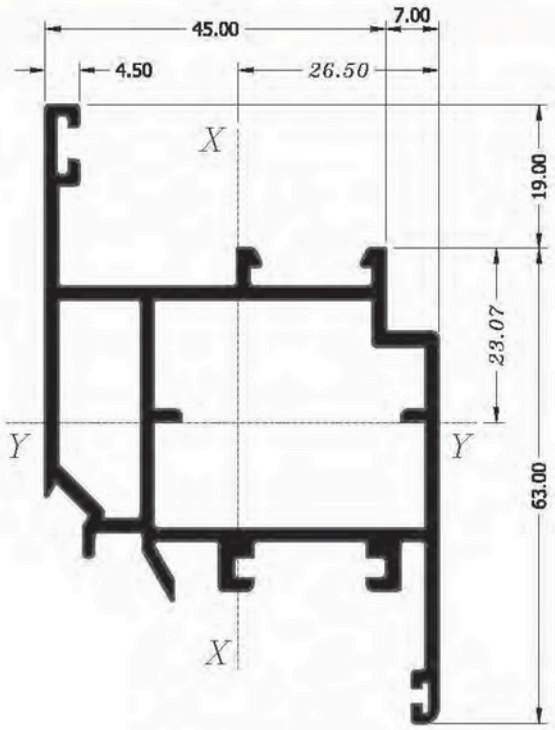
1.144 Kg./ml.



1 045 4163

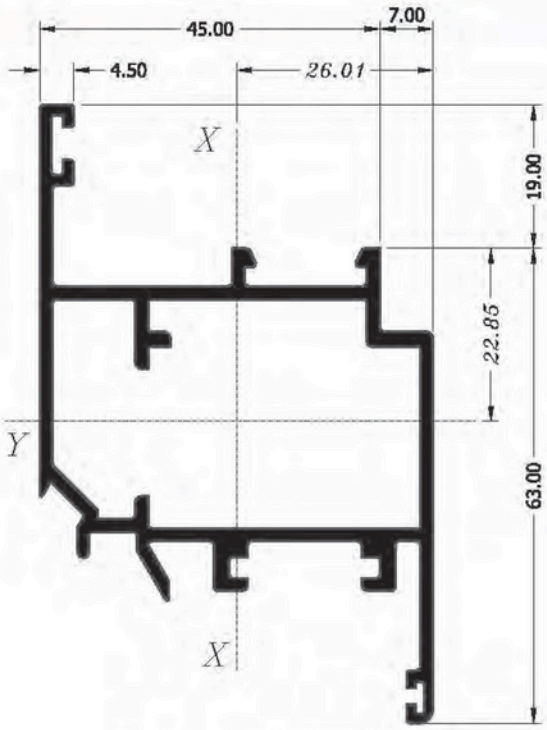
1.395 Kg./ml.

Profile No.	1 045 4153
Profile Old No.	SH 4525



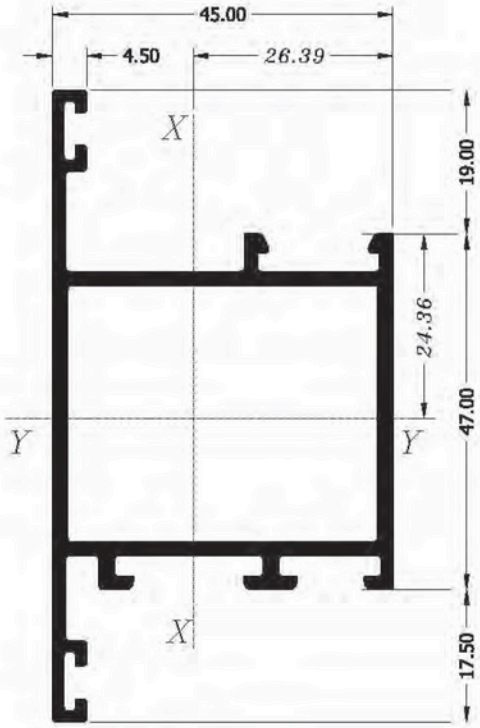
1 045 4181

1.253 Kg./ml.



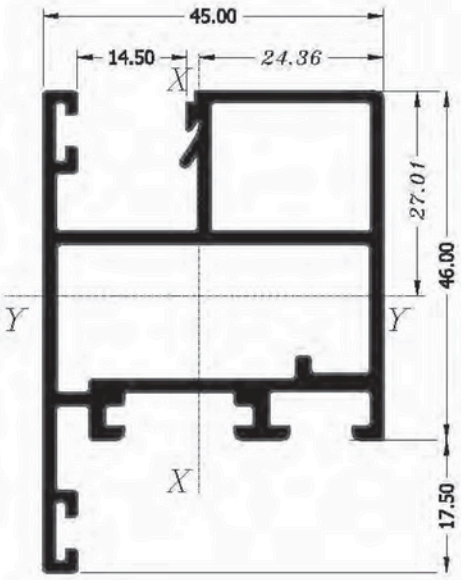
1 045 4182

1.167 Kg./ml.



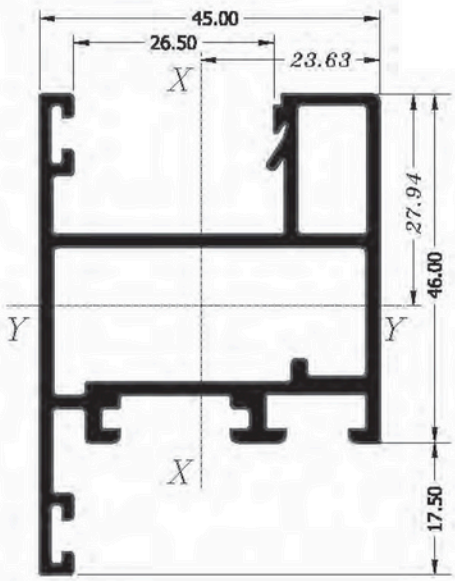
1 045 4220

1.064 Kg./ml.



1 045 4240

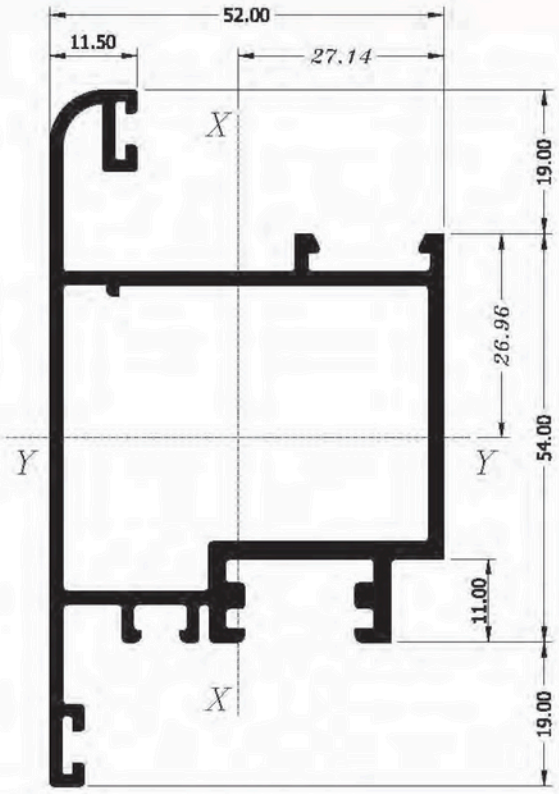
1.129 Kg./ml.



1 045 4250

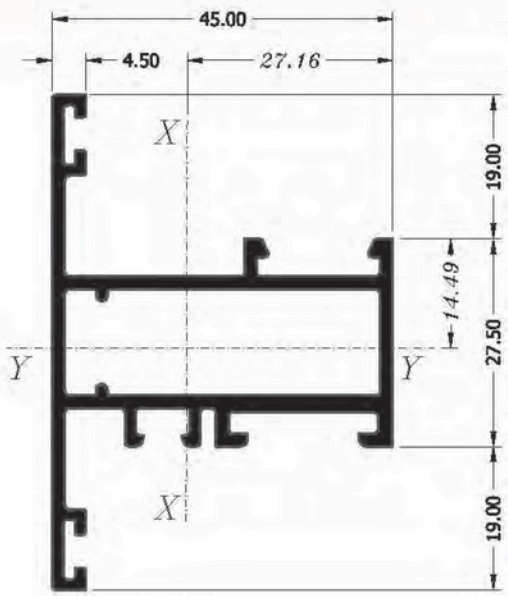
1.090 Kg./ml.

Profile No.	1 045 4220
Profile Old No.	SH 4529



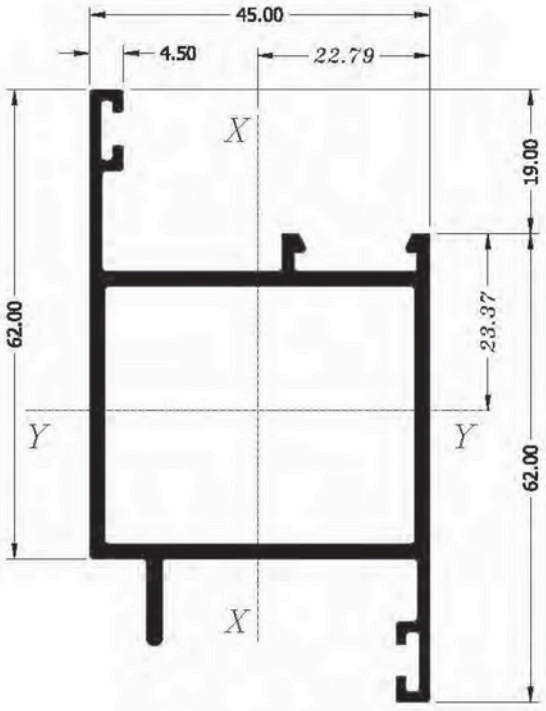
1 045 4320

1.438 Kg./ml.



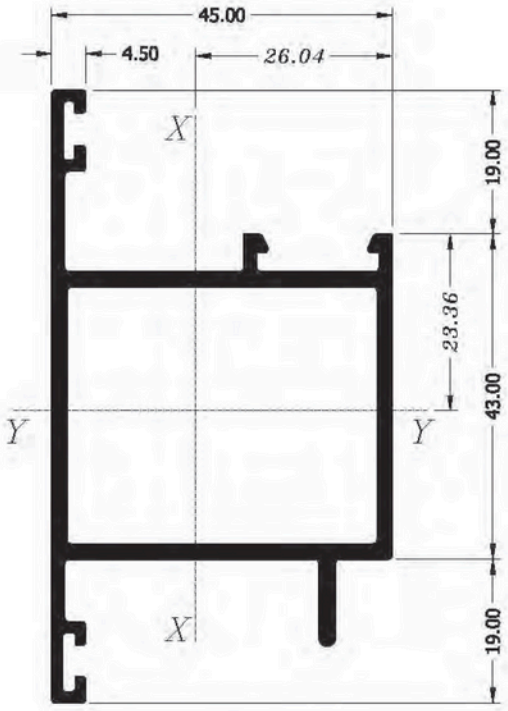
1 045 4370

0.918 Kg./ml.



1 045 4610

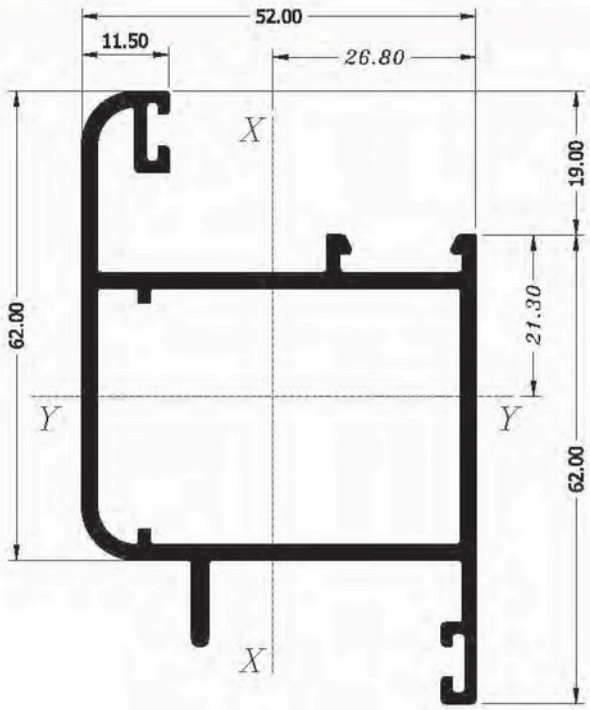
1.080 Kg./ml.



1 045 4620

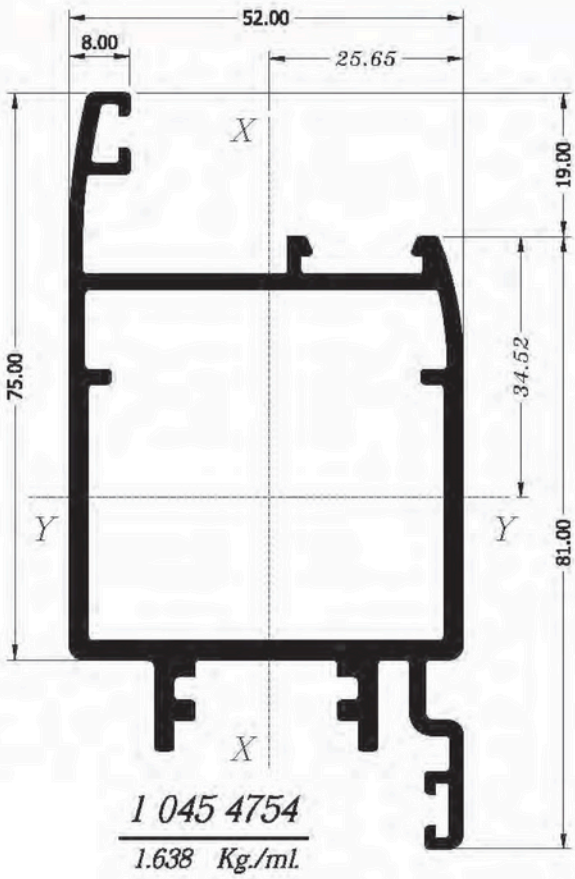
1.080 Kg./ml.

Profile No.	1 045 4320	1 045 4610	1 045 4620	1 045 4652
Profile Old No.	SH 4547	SH 4536	SH 4535	SH 4537



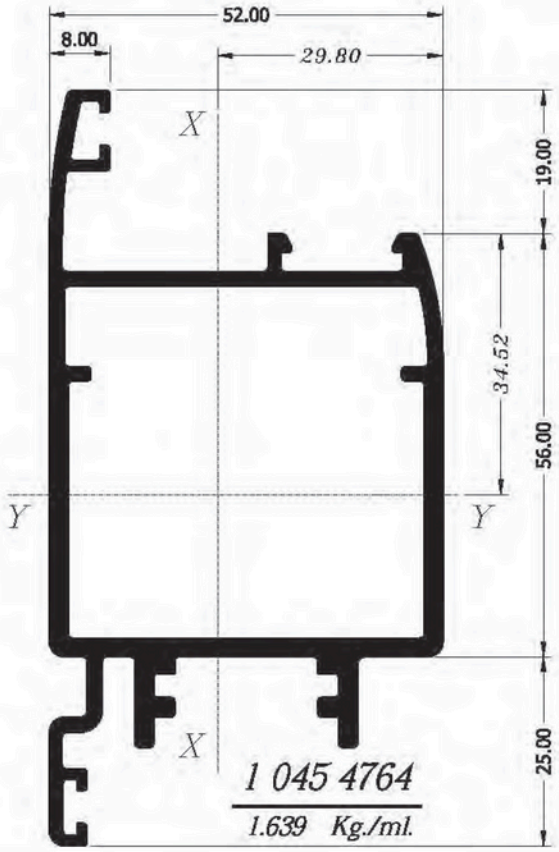
1 045 4652

1.210 Kg./ml.



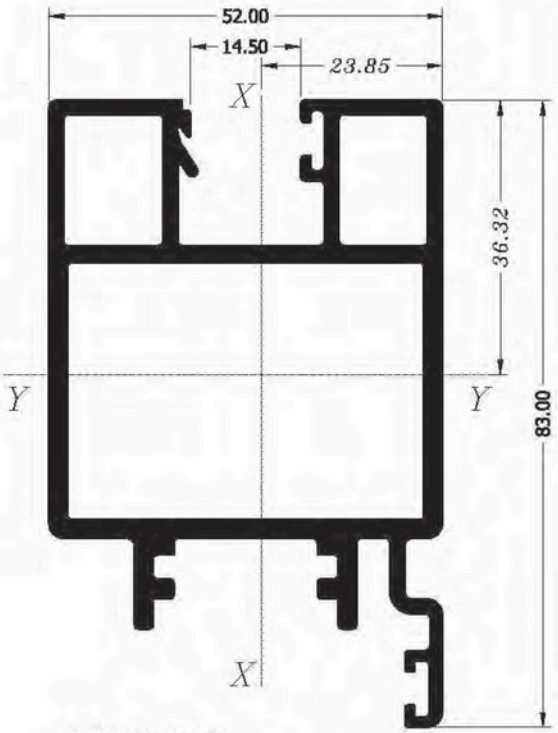
1 045 4754

1.638 Kg./ml.



1 045 4764

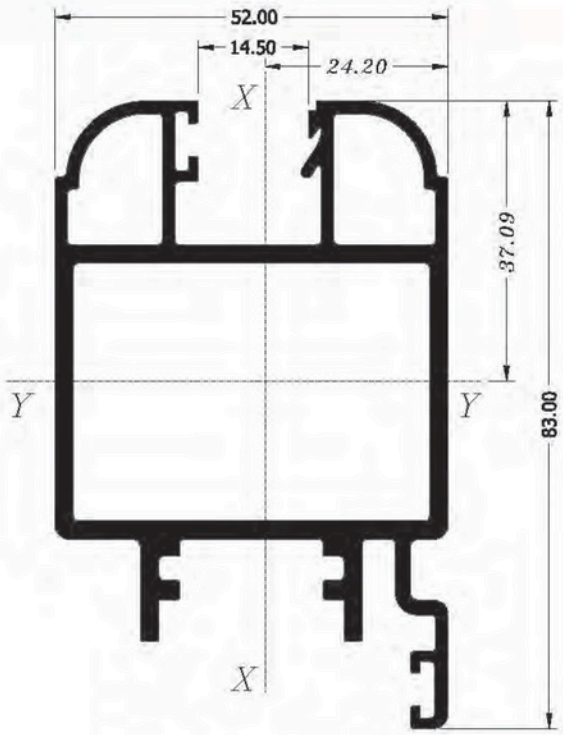
1.639 Kg./ml.



1 045 4790

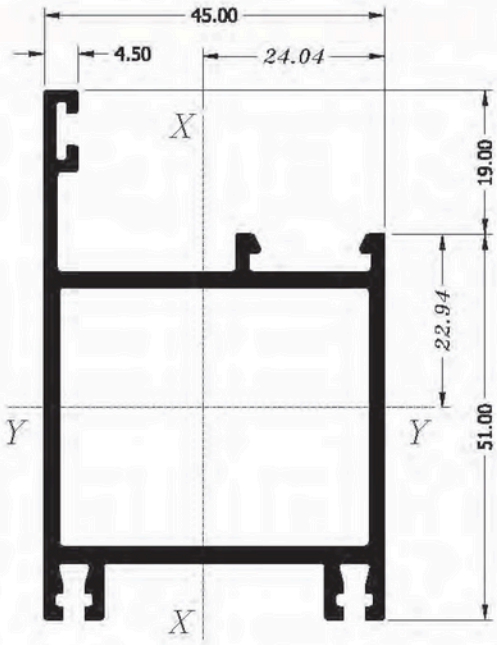
1.778 Kg./ml.

Profile No.	1 045 4754	1 045 4764
Profile Old No.	SH 4538	SH 4534



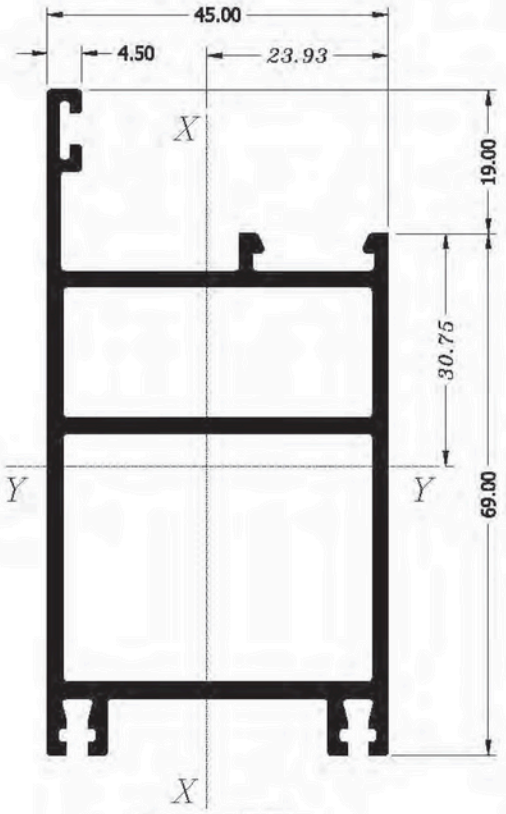
1 045 4793

1.754 Kg./ml.



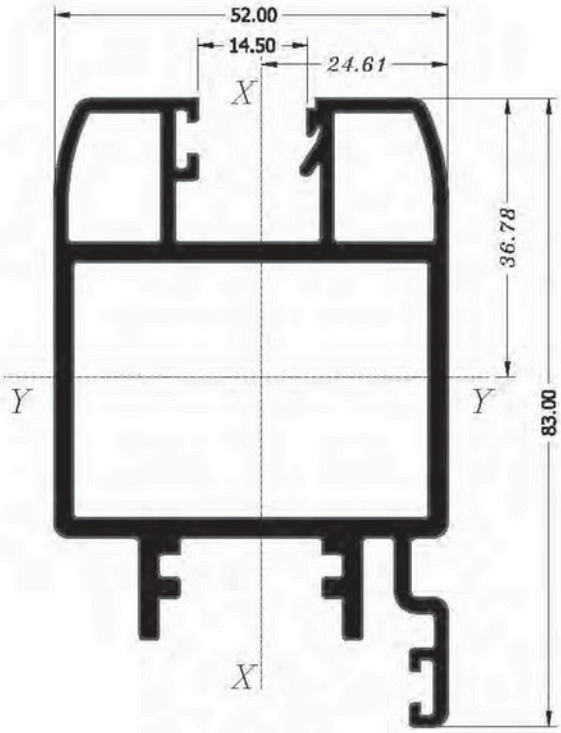
1 045 4810

1.086 Kg./ml.



1 045 4820

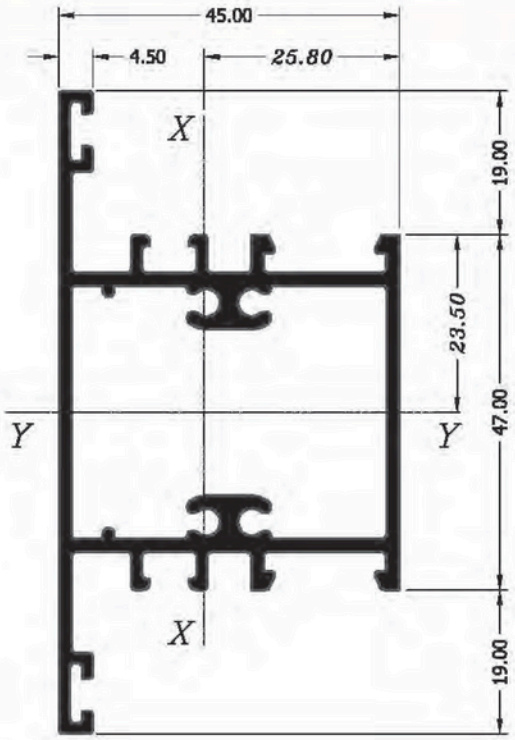
1.491 Kg./ml.



1 045 4794

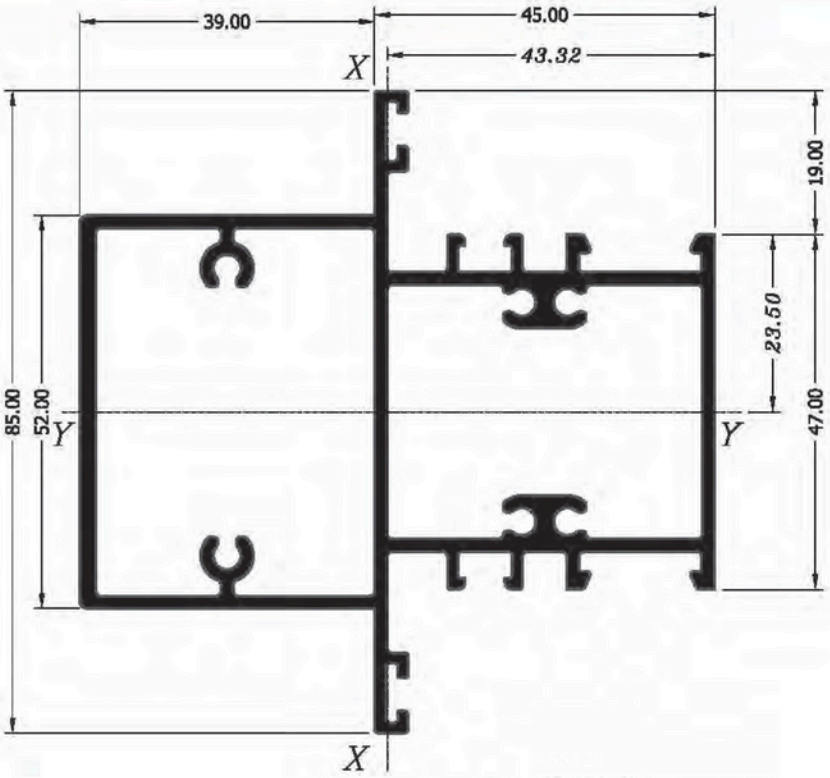
1.764 Kg./ml.

Profile No.	1 045 4810
Profile Old No.	SH 4539



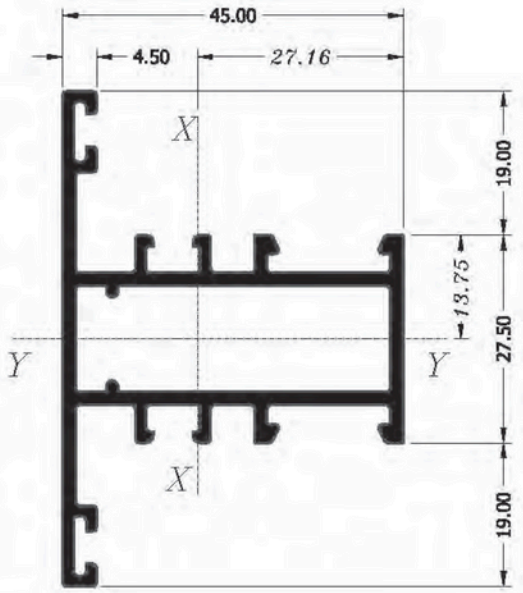
1 045 5120

1.242 Kg./ml.



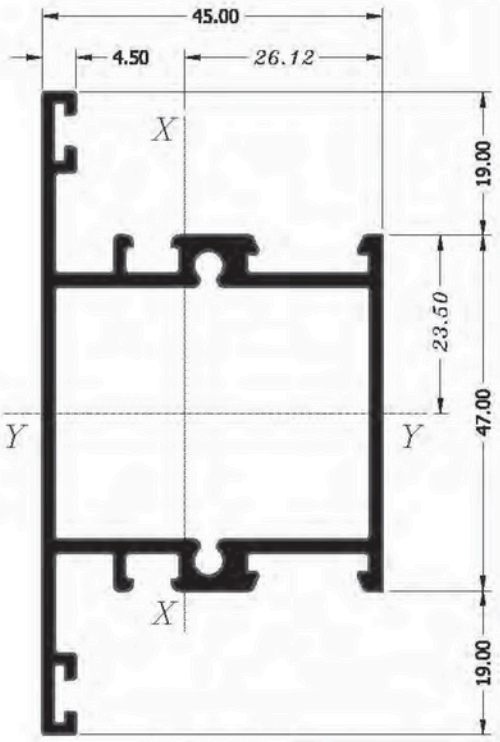
1 045 5520

1.768 Kg./ml.



1 045 5010

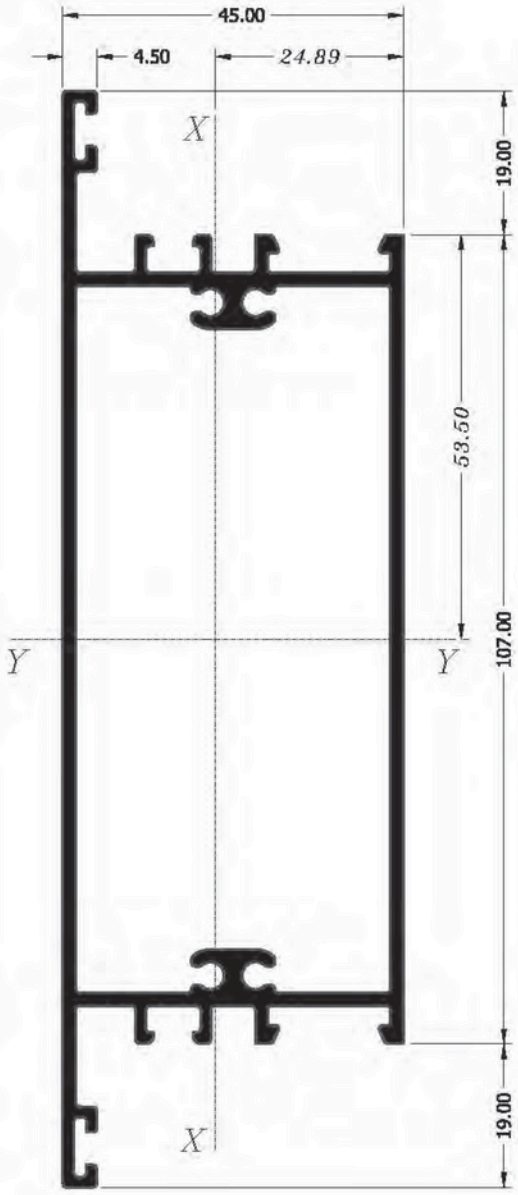
0.926 Kg./ml.



1 045 5020

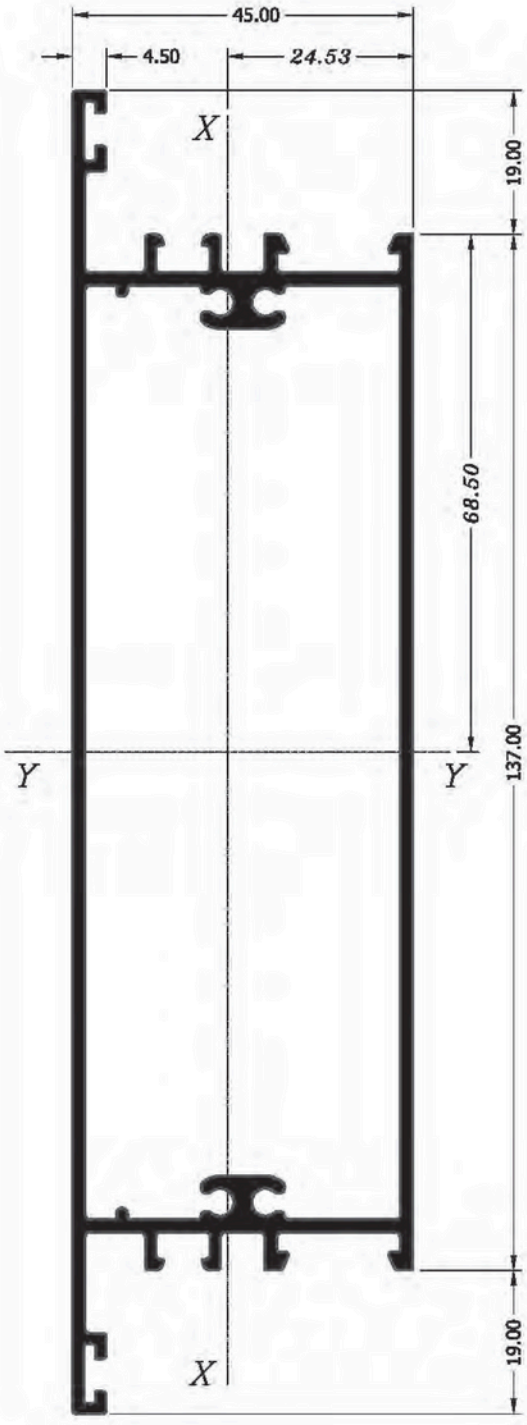
1.144 Kg./ml.

Profile No.	1 045 5010	1 045 5120
Profile Old No.	SH 4551	SH 4552



1 045 5130

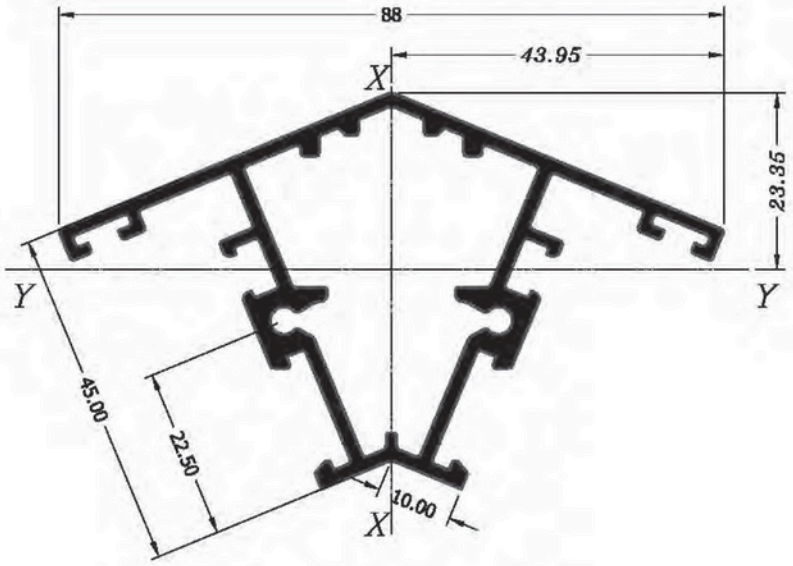
1.890 Kg./ml.



1 045 5140

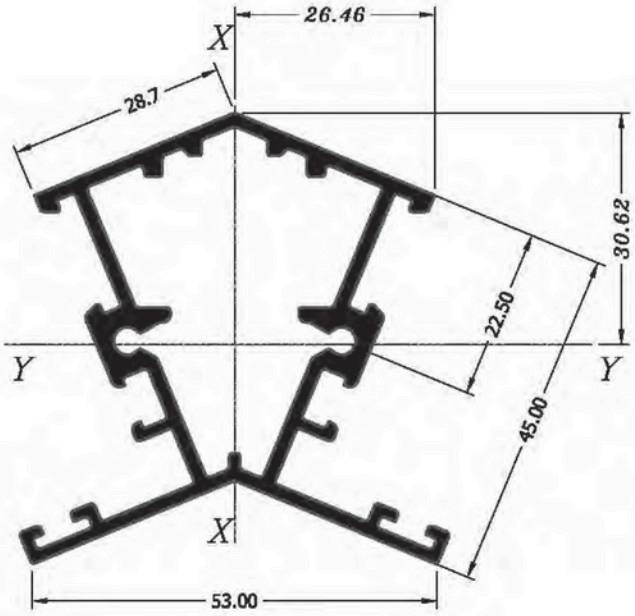
2.163 Kg./ml.

Profile No.	1 045 5130	1 045 5140
Profile Old No.	SH 4553	SH 4554



1 045 5170

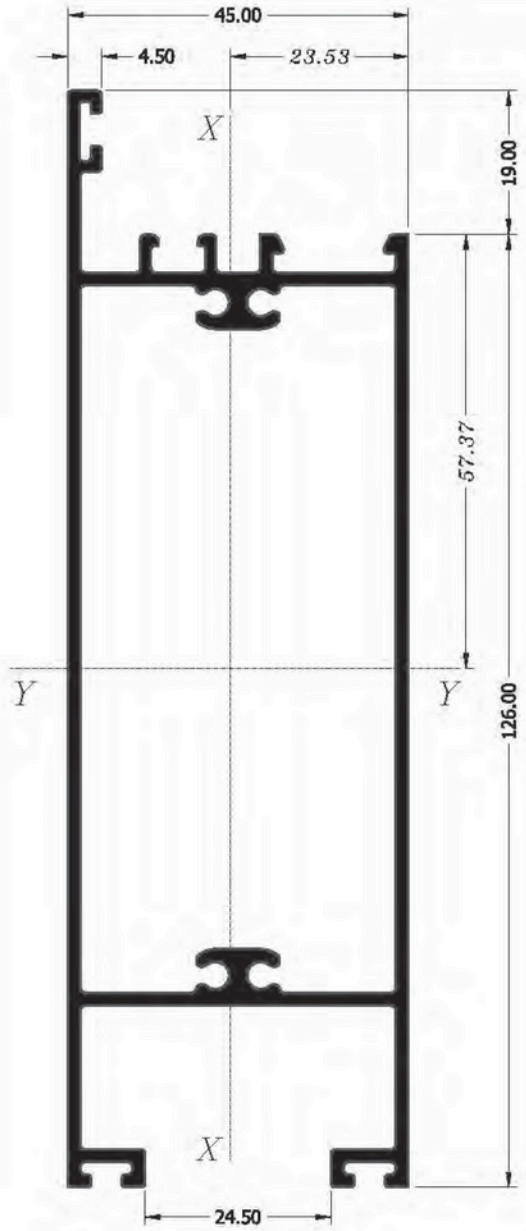
1.204 Kg./ml.



1 045 5190

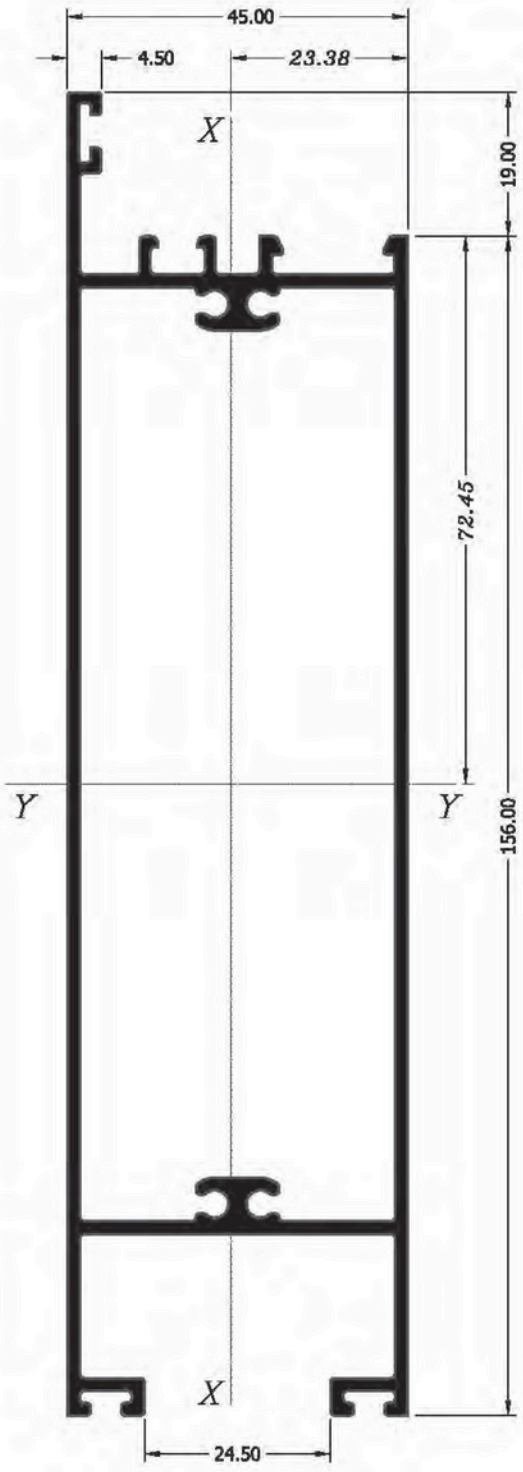
1.204 Kg./ml.

Profile No.	1 045 5170	1 045 5190
Profile Old No.	SH 4585	SH 4586



1 045 5330

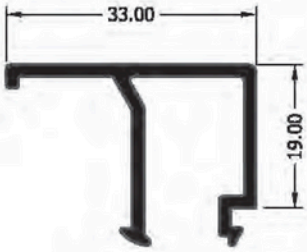
1.987 Kg./ml.



1 045 5340

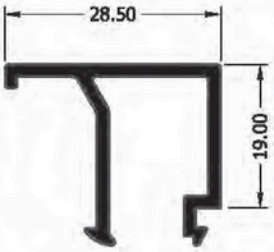
2.260 Kg./ml.

Profile No.	1 045 5330	1 045 5340
Profile Old No.	SH 4558	SH 4559



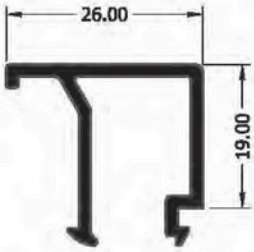
1 045 6110

0.289 Kg./ml.



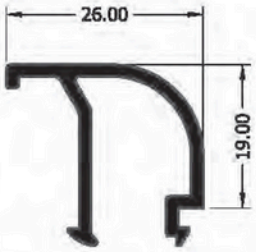
1 045 6130

0.270 Kg./ml.



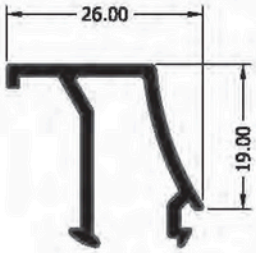
1 045 6140

0.262 Kg./ml.



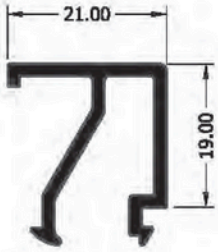
1 045 6142

0.246 Kg./ml.



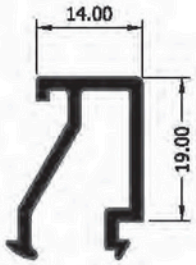
1 045 6145

0.240 Kg./ml.



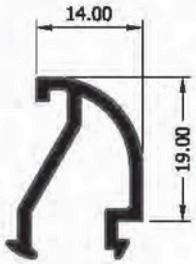
1 045 6160

0.251 Kg./ml.



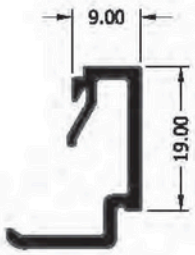
1 045 6180

0.211 Kg./ml.



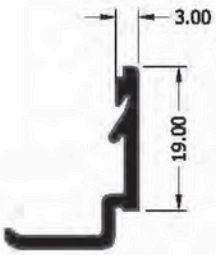
1 045 6182

0.206 Kg./ml.



1 045 6290

0.227 Kg./ml.

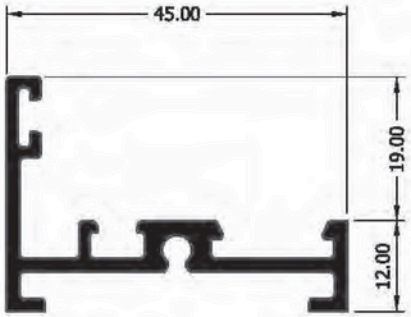


1 045 6292

0.186 Kg./ml.

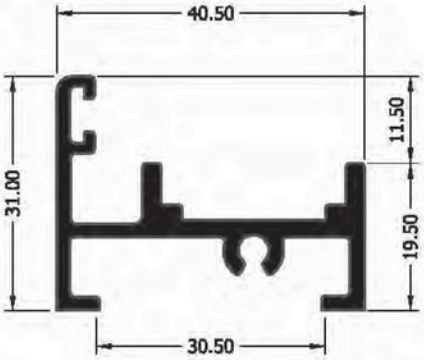
Profile No.	1 045 6110	1 045 6130	1 045 6140	1 045 6142	1 045 6145	1 045 6160
Profile Old No.	SH 4563	SH 4560	SH 4561	SH 4562	SH 4565	SH 4568

Profile No.	1 045 6180	1 045 6182	1 045 6290
Profile Old No.	SH 4566	SH 4567	SH 4569



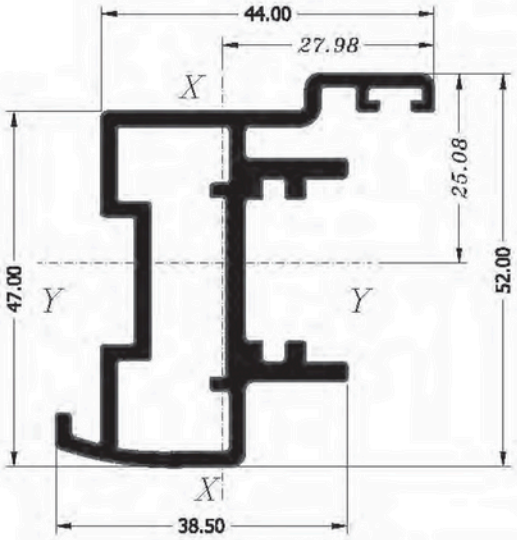
1 045 9110

0.540 Kg./ml.



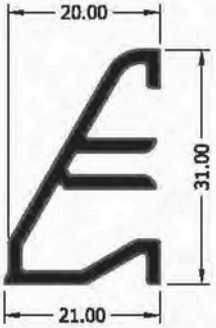
1 045 9140

0.629 Kg./ml.



1 045 9240

1.031 Kg./ml.



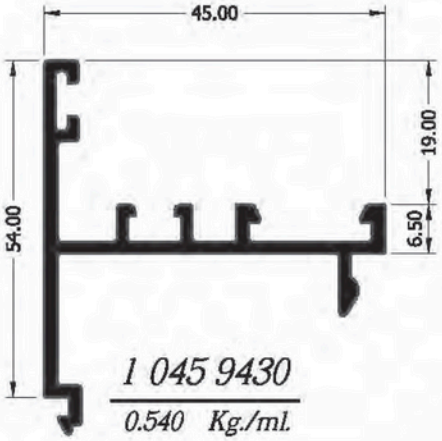
1 045 9120

0.356 Kg./ml.



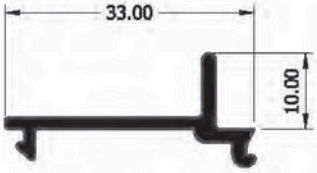
1 045 9010

0.116 Kg./ml.



1 045 9430

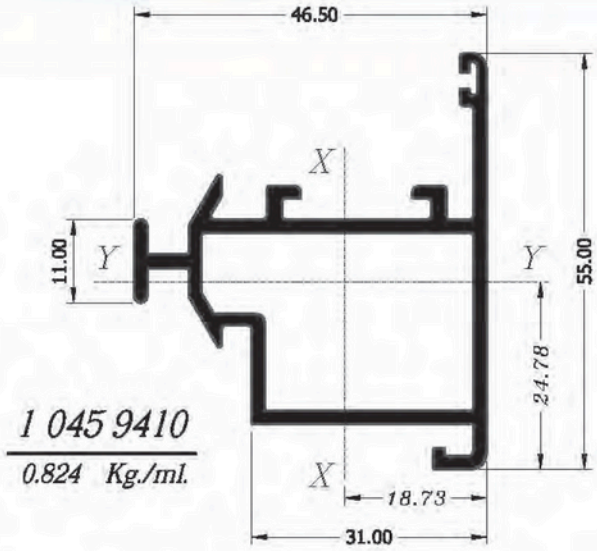
0.540 Kg./ml.



1 045 9210

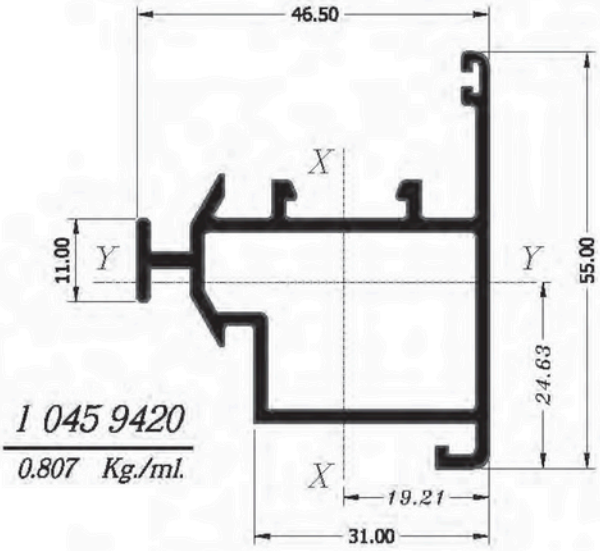
0.221 Kg./ml.

Profile No.	1 045 9110	1 045 9120	1 045 9210	1 045 9240	1 045 9430
Profile Old No.	SH 4574	SH 4577	SH 4579	SH 4589	SH 4583



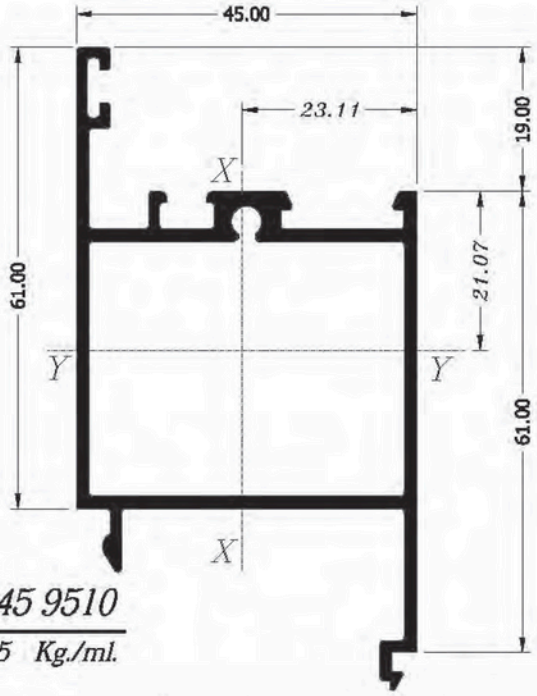
1 045 9410

0.824 Kg./ml.



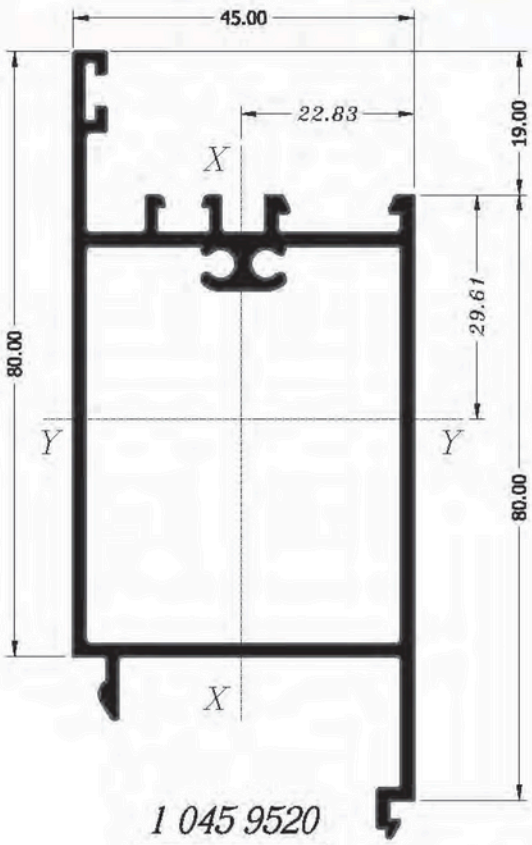
1 045 9420

0.807 Kg./ml.



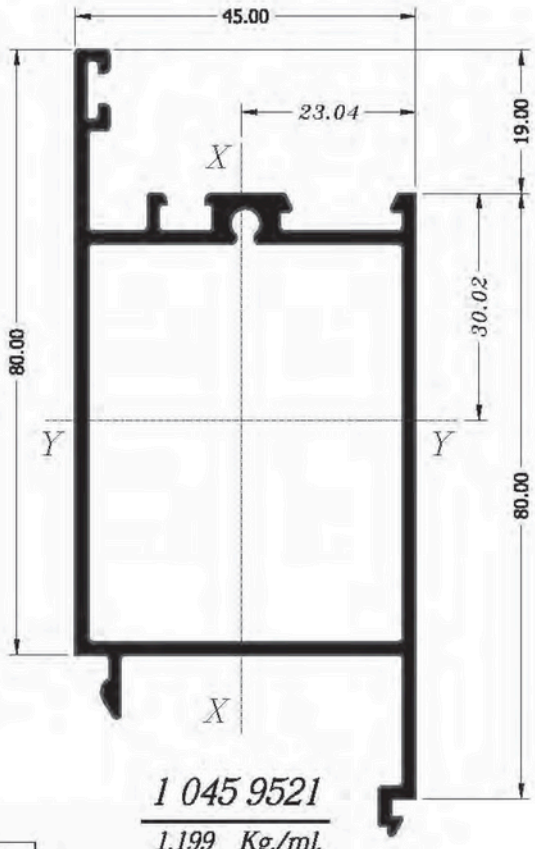
1 045 9510

1.045 Kg./ml.



1 045 9520

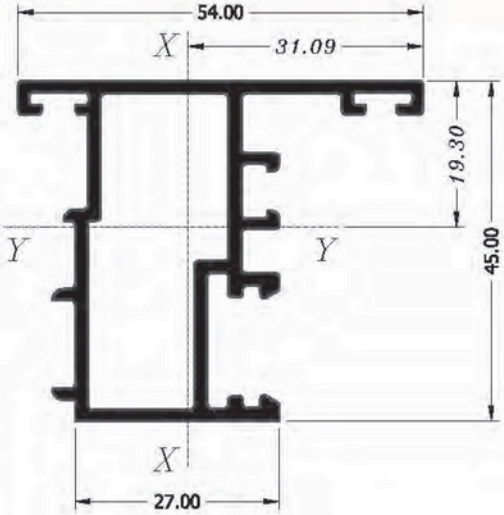
1.242 Kg./ml.



1 045 9521

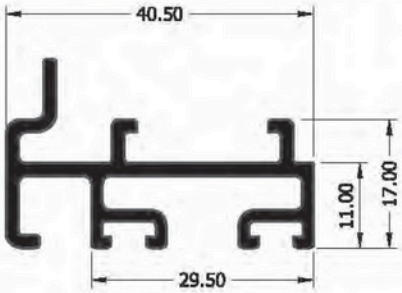
1.199 Kg./ml.

Profile No.	1 045 9410	1 045 9420	1 045 9520
Profile Old No.	SH 4544	SH 4545	SH 4573



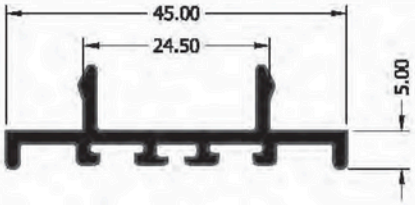
1 045 9610

0.853 Kg./ml.



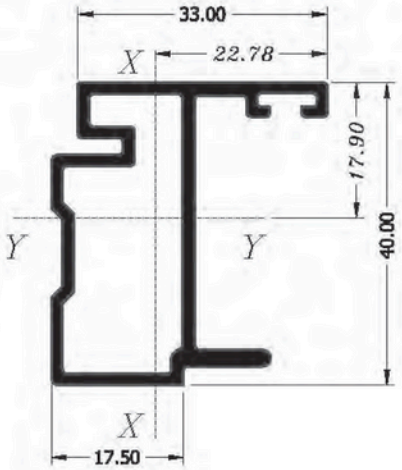
1 045 9440

0.541 Kg./ml.



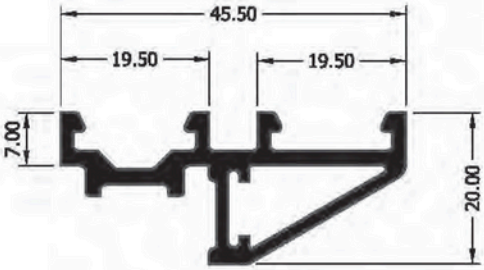
1 045 9570

0.359 Kg./ml.



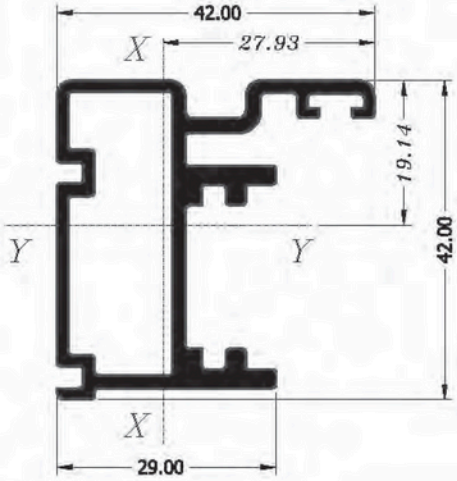
1 045 9620

0.670 Kg./ml.



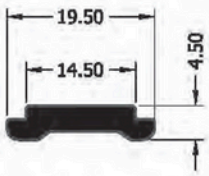
1 045 9810

0.591 Kg./ml.



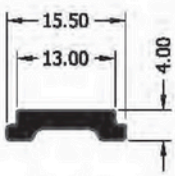
1 045 9630

0.902 Kg./ml.



1 045 9910

0.146 Kg./ml.

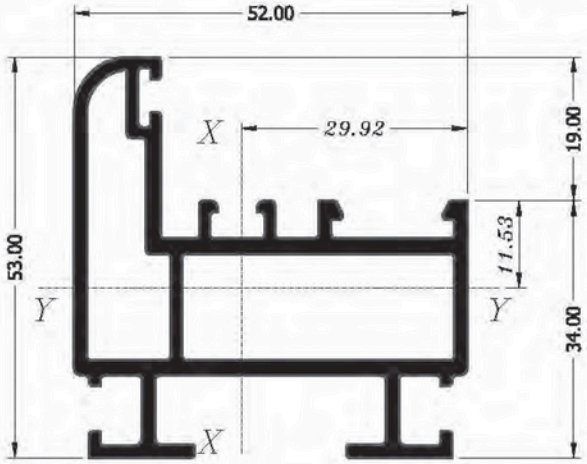


1 045 9920

0.113 Kg./ml.

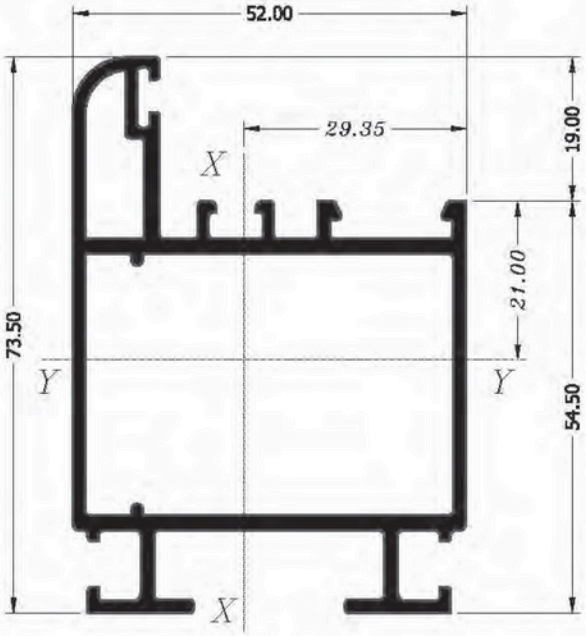
Profile No.	1 045 9570	1 045 9610	1 045 9620	1 045 9630	1 045 9810	1 045 9910
Profile Old No.	SH 4581	SH 4572	SH 4578	SH 4588	SH 4582	SH 4571

These profiles are specially produced for rolling machines



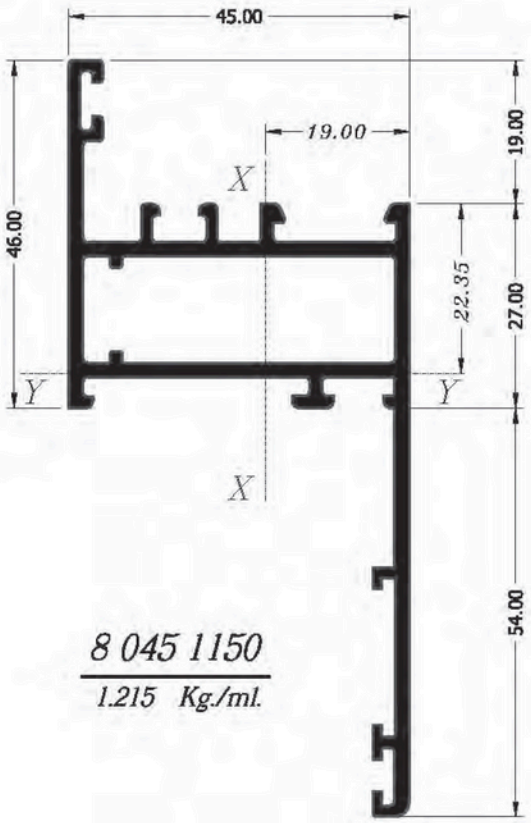
8 045 1420

1.123 Kg./ml.



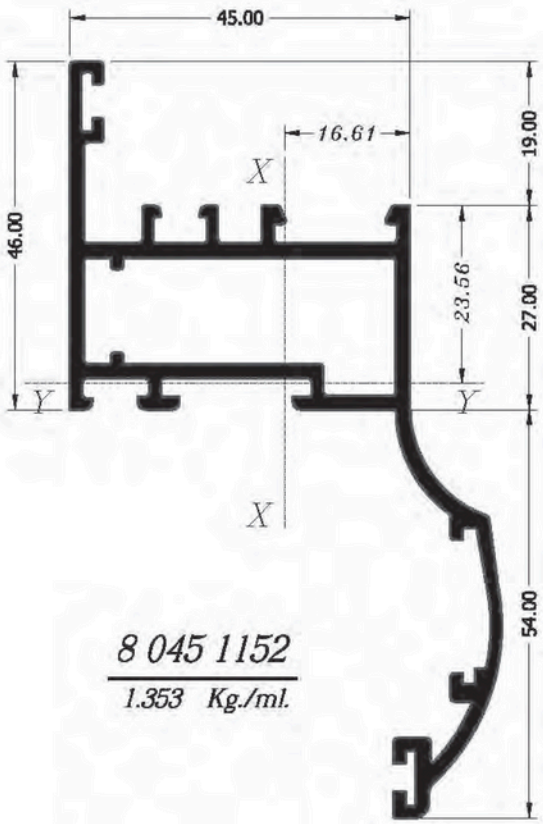
8 045 1520

1.311 Kg./ml.



8 045 1150

1.215 Kg./ml.

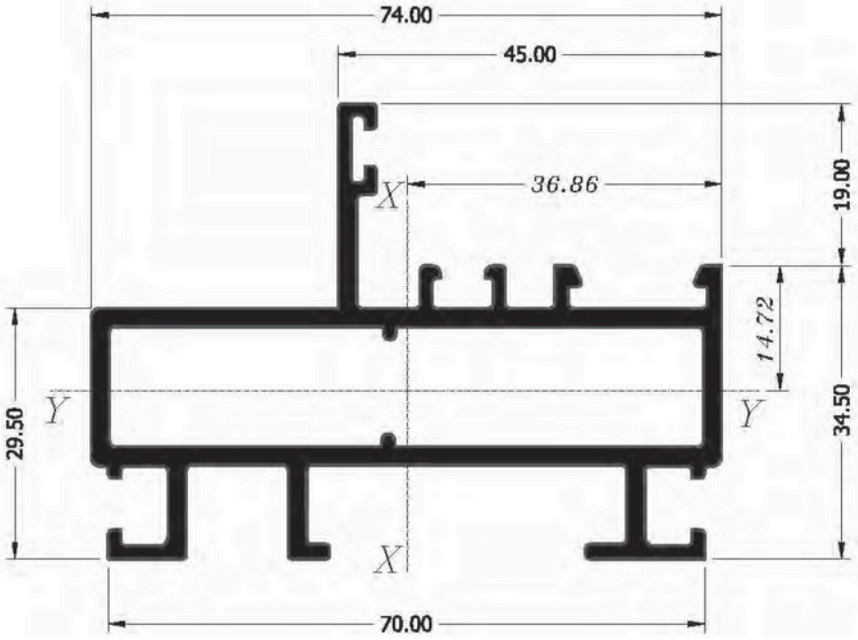


8 045 1152

1.353 Kg./ml.

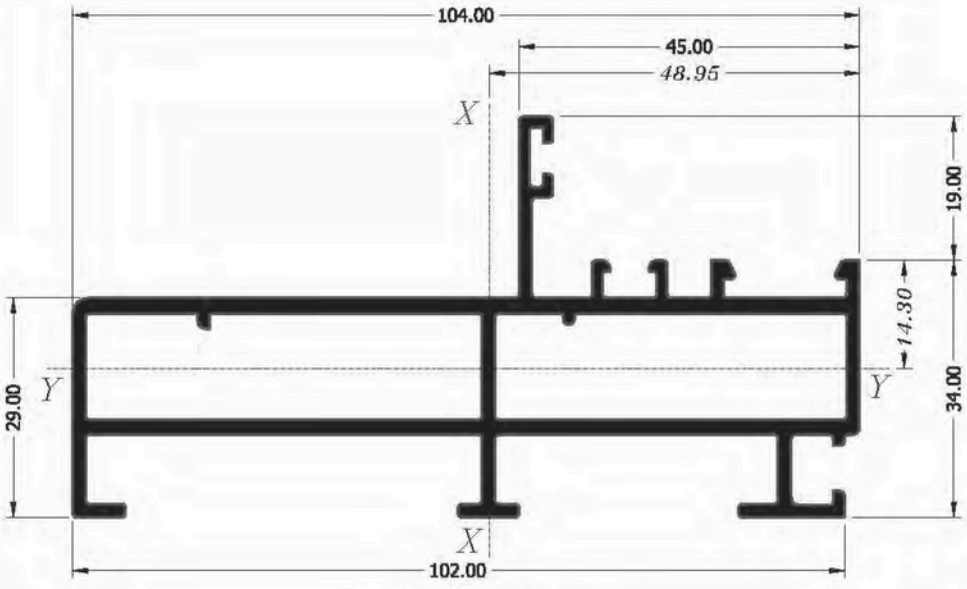
Profile No.	8 045 1150	8 045 1152	8 045 1420	8 045 1520
Profile Old No.	SH 4512.1	SH 4512.2-1	SH 4514.1	SH 4518.1

These profiles are specially produced for rolling machines



8 045 2072

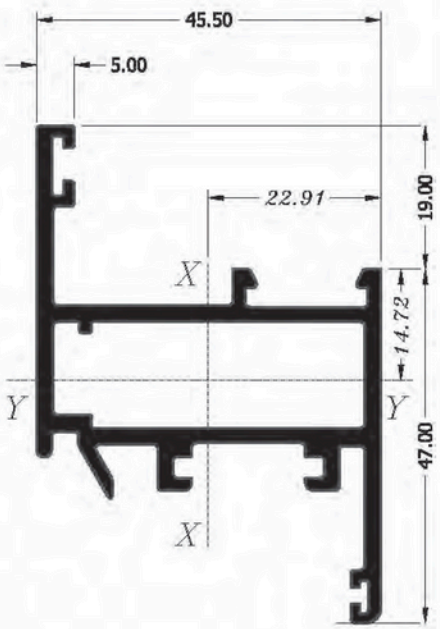
1.506 Kg./ml.



8 045 2101

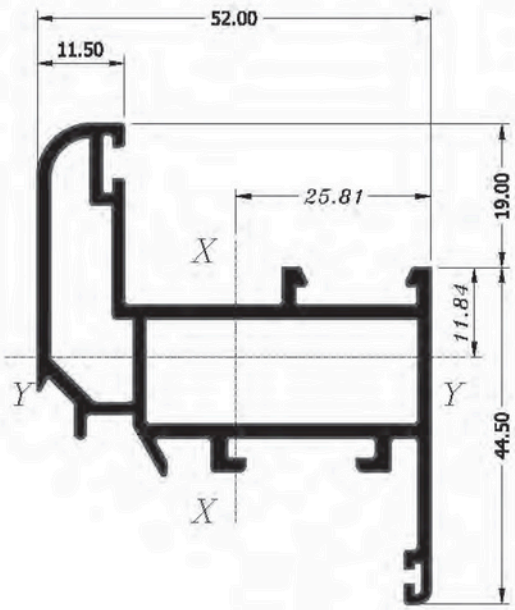
1.833 Kg./ml.

These profiles are specially produced for rolling machines



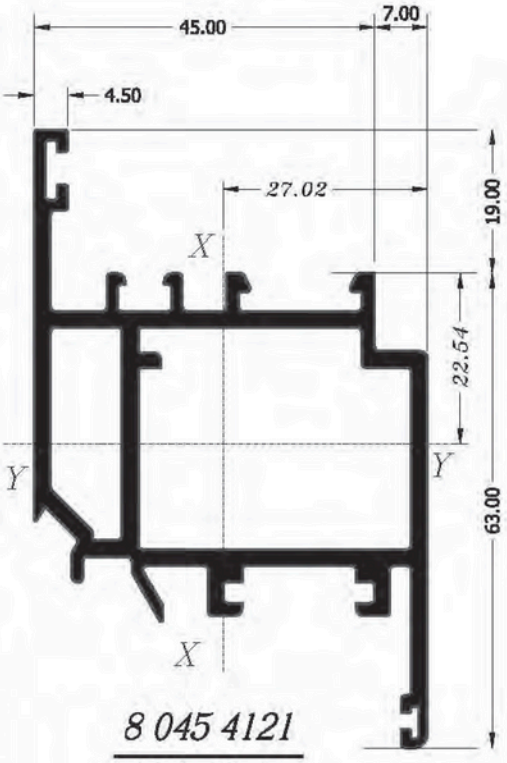
8 045 4010

1.156 Kg./ml.



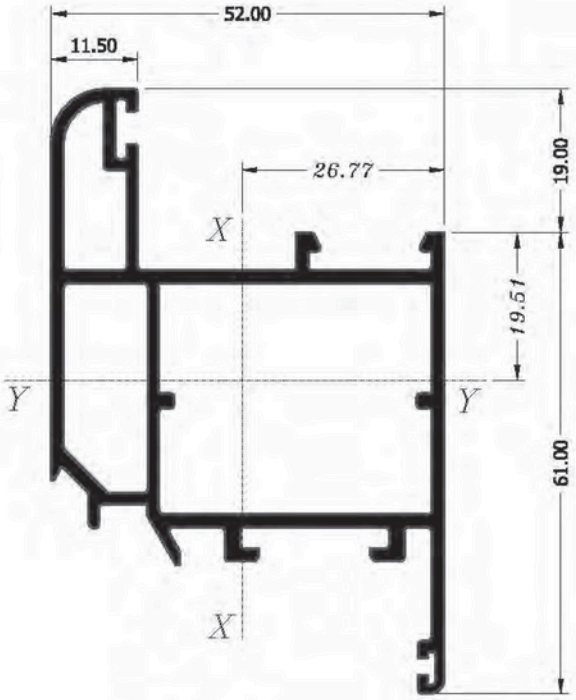
8 045 4112

1.046 Kg./ml.



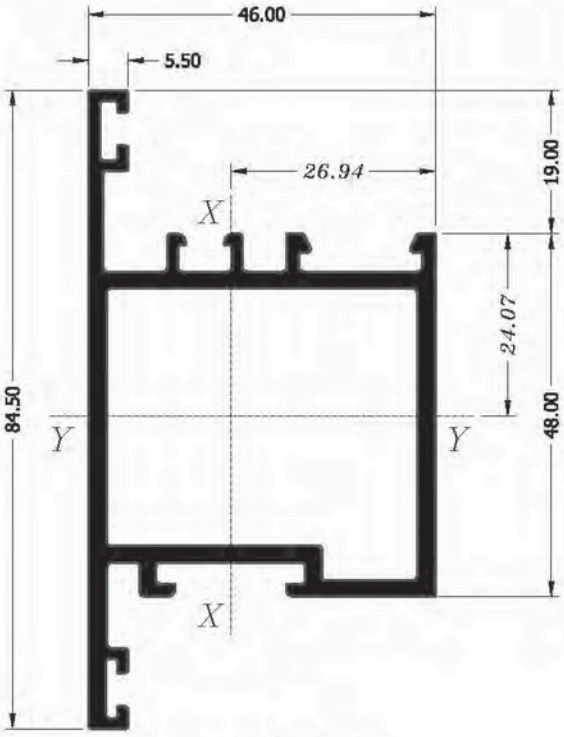
8 045 4121

1.601 Kg./ml.



8 045 4122

1.280 Kg./ml.



8 045 4280

1.336 Kg./ml.

Profile No.	8 045 4010	8 045 4112	8 045 4121	8 045 4122
Profile Old No.	SH 4548	SH 4523	SH 4549.1	SH 4528



VOLTA 40

Hinged System

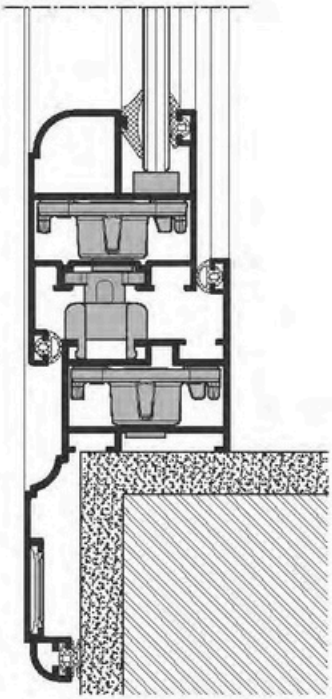
- Ideal solution for small to medium openings for economic residential buildings.
- The system is available in inward and outward opening windows and doors.
- Same profile can be used as frame or sash (optional).
- Offers an extensive range of profiles for the construction of elegant and moderately priced aluminium frames in functional style.
- Allows the fabrication, production and easy assembly of windows and doors in less time.

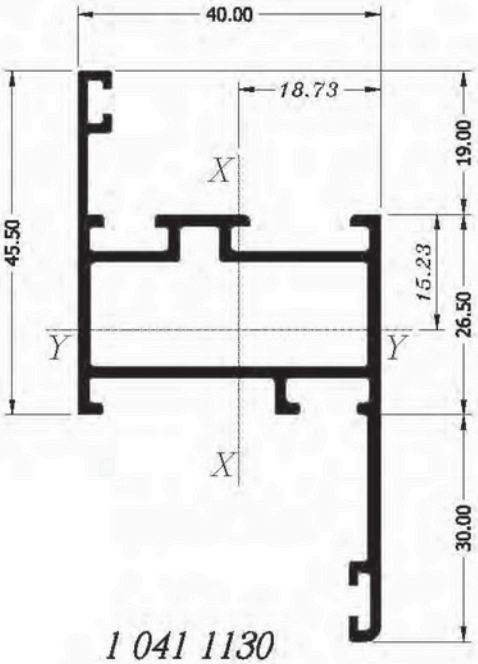
Technical Characteristics

Frame	Depth	40 mm. to 64 mm.
	Height	46 mm. to 110 mm.
Sash	Depth	40 mm. to 48 mm
	Height	65 mm. to 75 mm.
Max Glass Thickness	Up to 18 mm.	
Max Sash Weight	Up to 90 kg.	
Sealing Type	EPDM gasket	

Complies with European norm hEN 1435-1

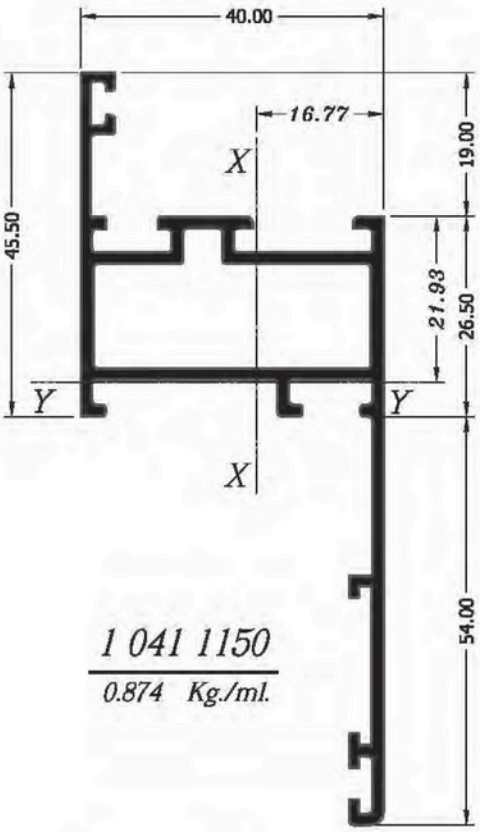
Air Permeability	(Class 4) up to 600 pa.
Water Tightness	(Class E1050) up to 1050 pa.
Resistance to wind load	(Class C4) up to 1600 pa.





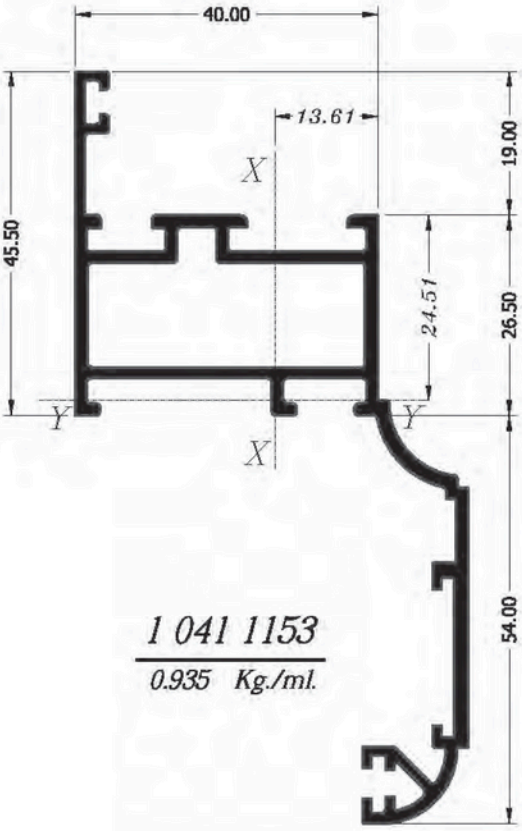
1 041 1130

0.777 Kg./ml.



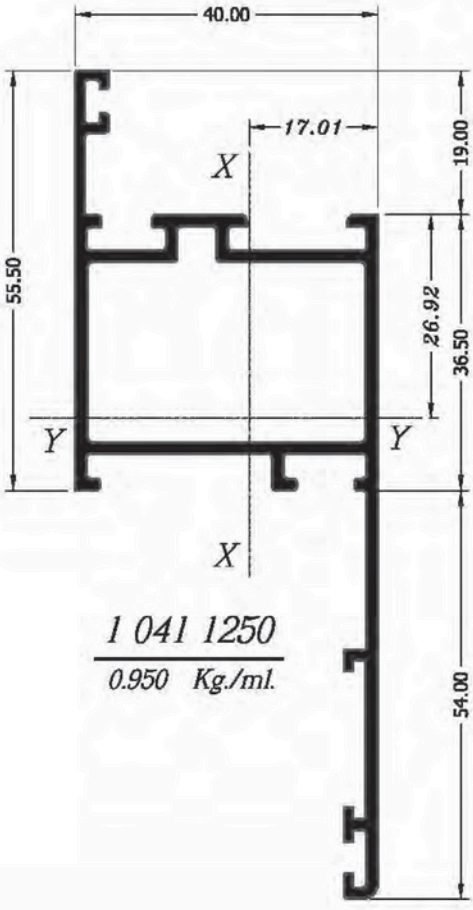
1 041 1150

0.874 Kg./ml.



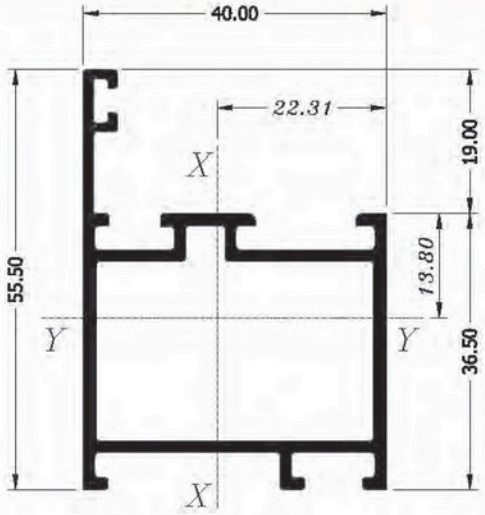
1 041 1153

0.935 Kg./ml.



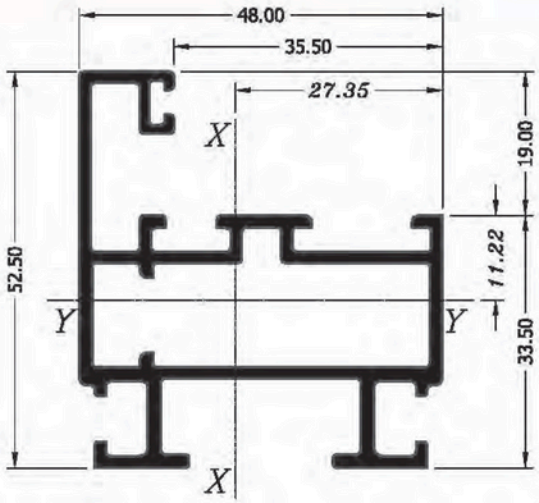
1 041 1250

0.950 Kg./ml.



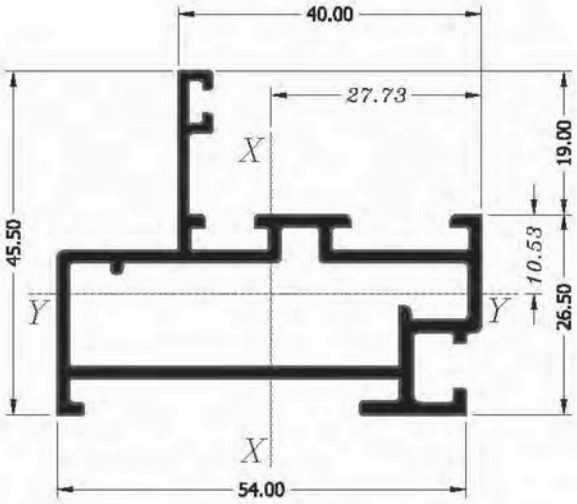
1 041 1200

0.708 Kg./ml.



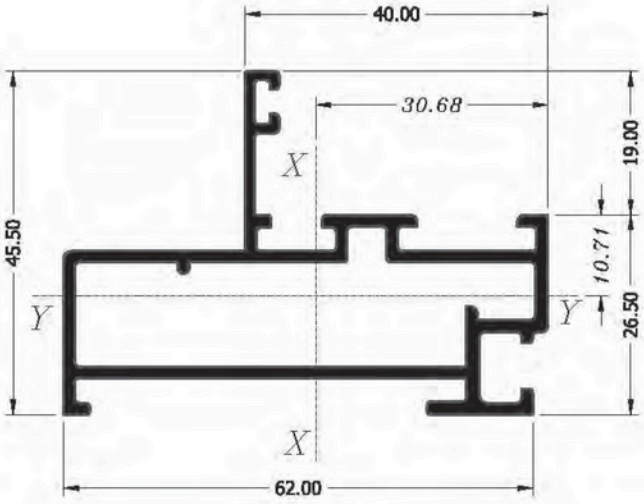
1 041 1421

0.906 Kg./ml.



1 041 2051

0.819 Kg./ml.

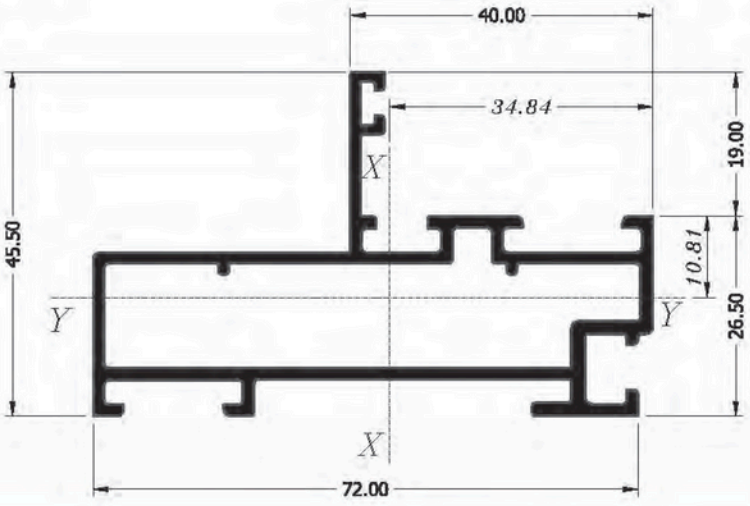


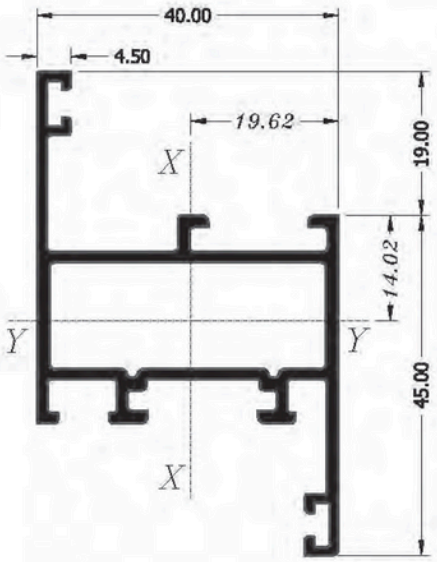
1 041 2061

0.875 Kg./ml.

1 041 2071

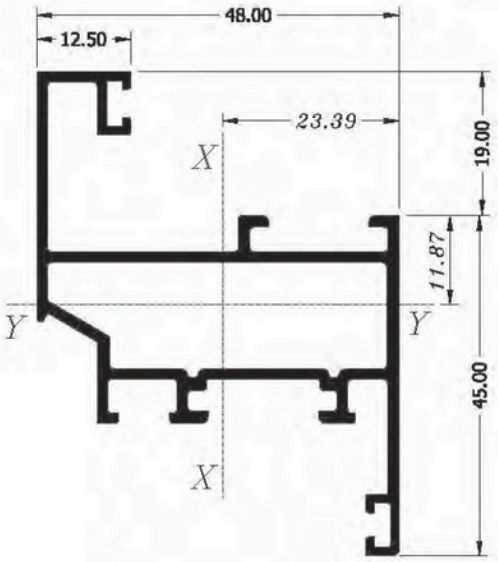
0.939 Kg./ml.





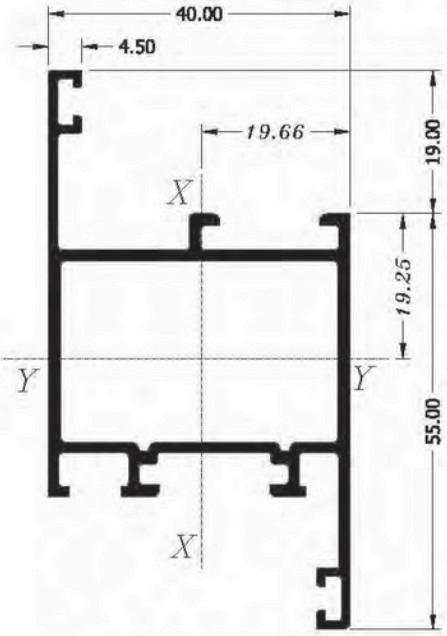
1 041 4110

0.720 Kg./ml.



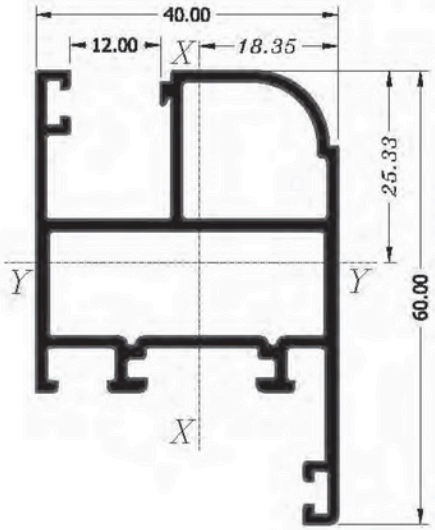
1 041 4119

0.801 Kg./ml.



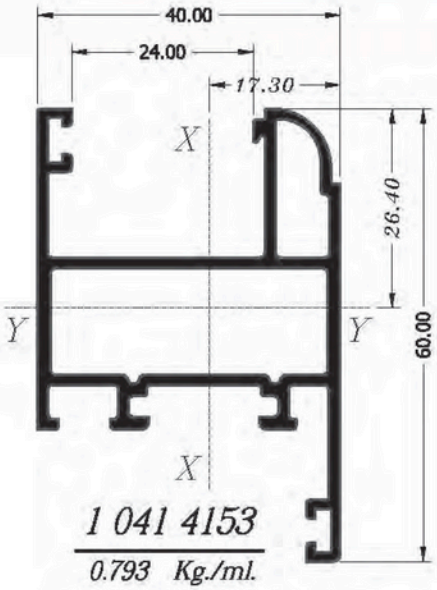
1 041 4120

0.771 Kg./ml.



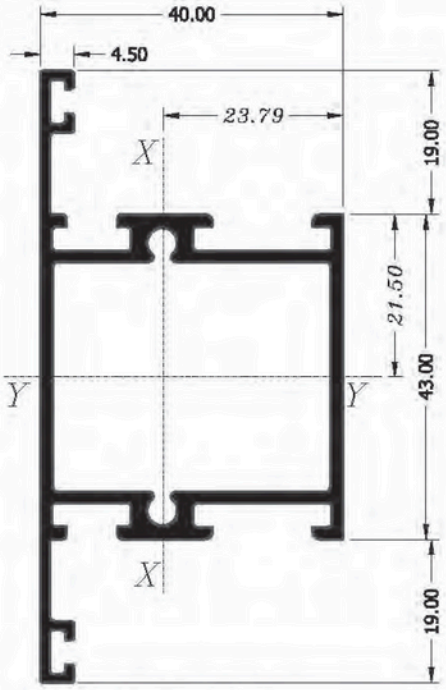
1 041 4143

0.830 Kg./ml.



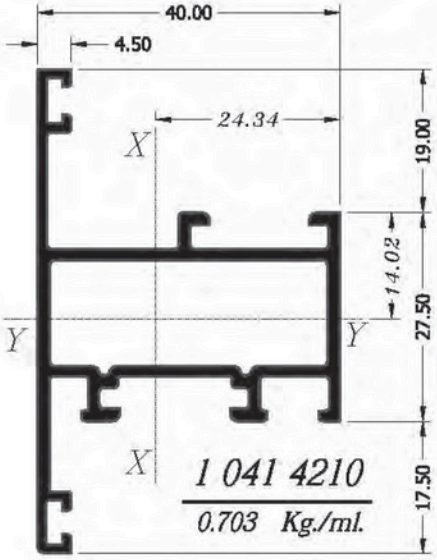
1 041 4153

0.793 Kg./ml.



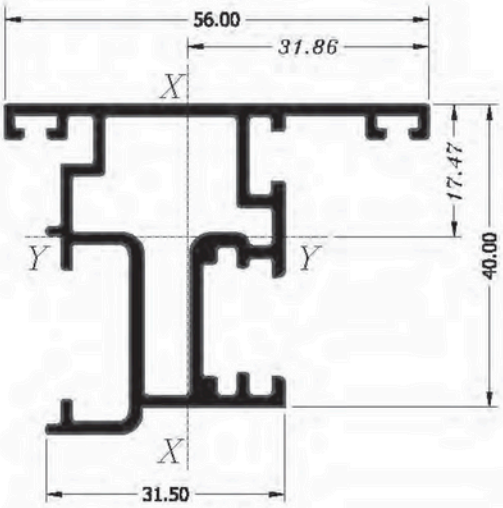
1 041 5120

0.905 Kg./ml.



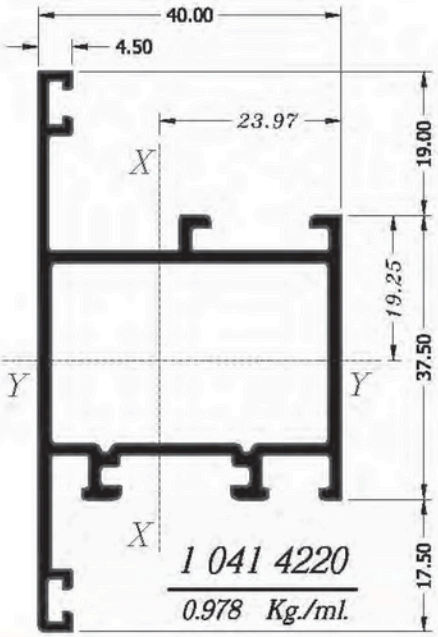
1 041 4210

0.703 Kg./ml.



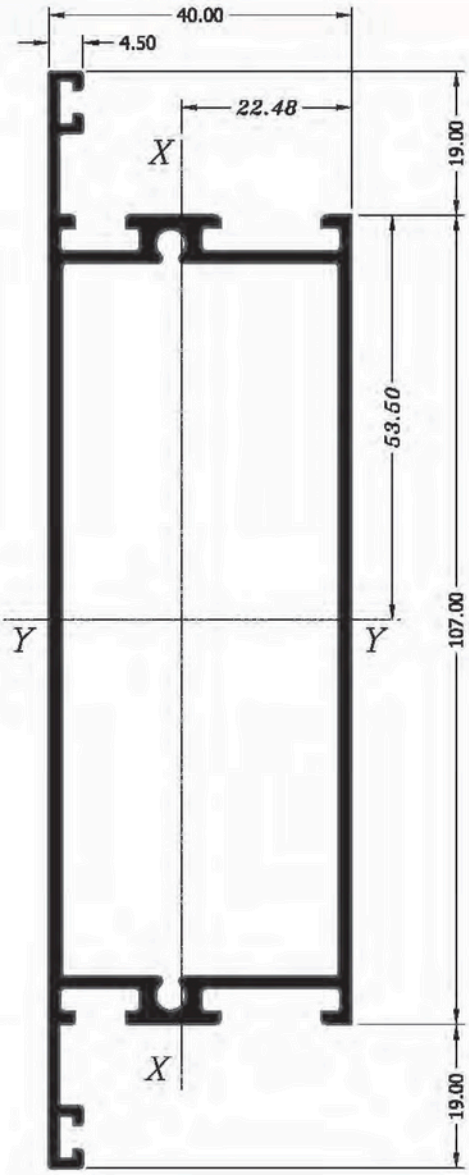
1 041 9610

0.817 Kg./ml.



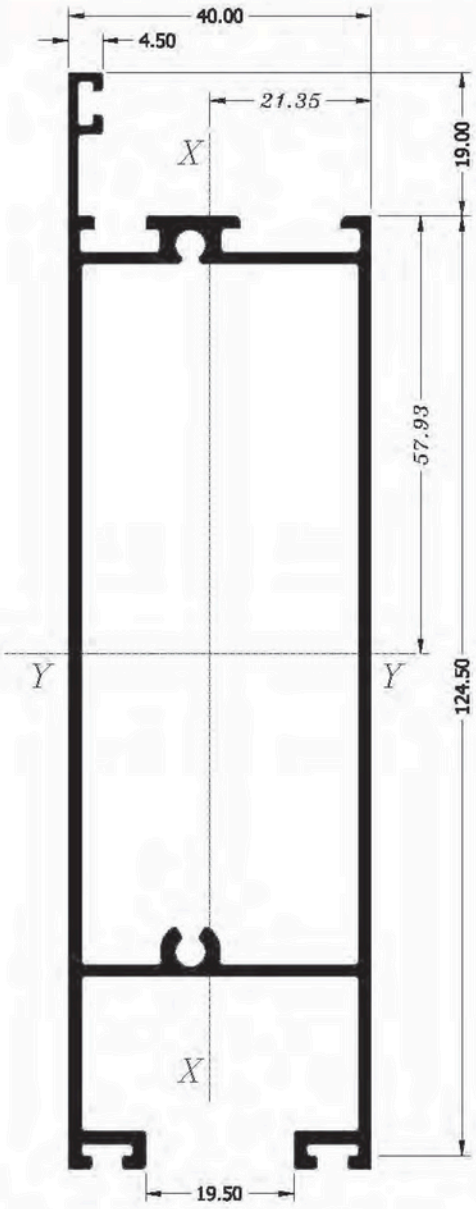
1 041 4220

0.978 Kg./ml.



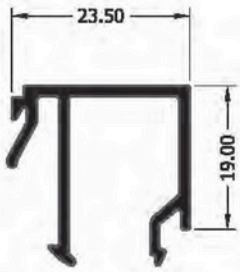
1 041 5130

1.360 Kg./ml.



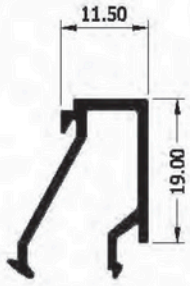
1 041 5330

1.482 Kg./ml.



1 041 6120

0.263 Kg./ml.

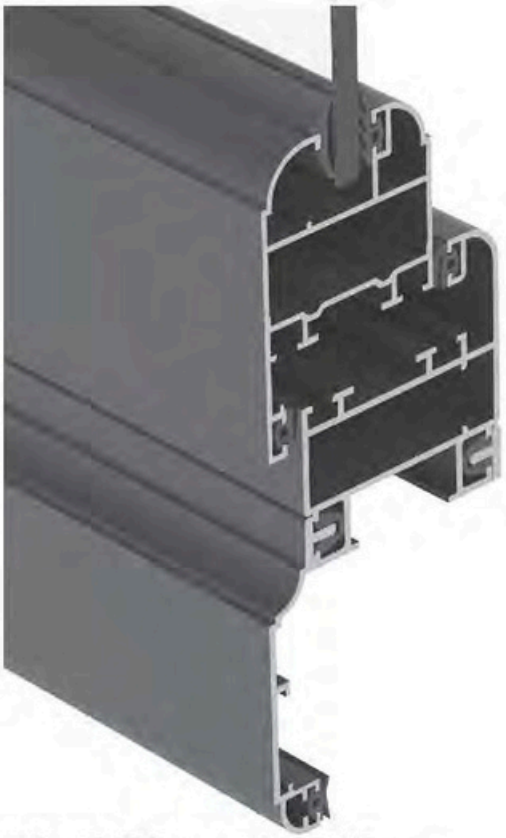


1 041 6160

0.204 Kg./ml.

SAMBA 40

Hinged System



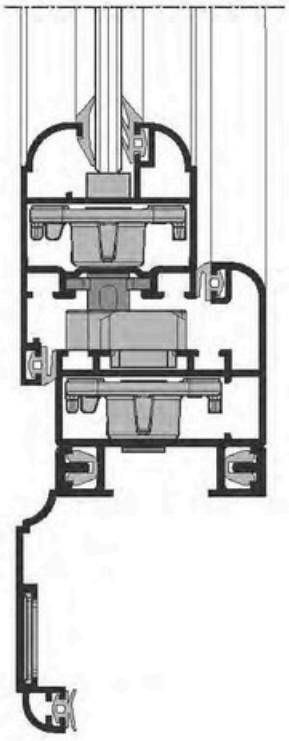
- Allows the fabrication, production and easy assembly of windows and doors in less time.
- Offers an extensive range of profiles for the construction of elegant and moderately priced aluminium frames in functional style.
- The system is available in inward and outward opening windows and doors.
- Same profile can be used as frame or sash (optional).
- Ideal solution for small to medium openings for economic residential buildings.

Technical Characteristics

Frame	Depth	40 mm. to 56 mm.
	Height	47 mm. to 101 mm.
Sash	Depth	40 mm.
	Height	67 mm. to 83 mm.
Max Glass Thickness	Up to 18 mm.	
Max Sash Weight	Up to 90 kg.	
Sealing Type	EPDM gasket	

Complies with European norm hEN 1435-1

Air Permeability	(Class 4) up to 600 pa.
Water Tightness	(Class E1050) up to 1050 pa.
Resistance to wind load	(Class C4) up to 1600 pa.



EUROPEAN CERTIFYING ORGANIZATION S.P.A.
NOTIFIED TESTING LABORATORY N. 0714
FOR REGULATION (EU) No 305/2011

CLASSIFICATION ASSESSMENT
N. 0714-CPR-1311 DATED FEBRUARY, 12 2016

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, that replaces Council Directive 89/106/EEC and lays down conditions for the placing or making available on the market of construction products by establishing harmonised rules on how to express their performance in relation to their essential characteristics and taking account of the horizontal legal framework for the marketing of products in the internal market, established by Regulation (EC) No. 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products, as well as by Decision No. 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products,
and in compliance with hEN 14351-1:2006 – A1:2010 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics, which is currently in force,
European Certifying Organization S.p.A., notified laboratory NB 0714, carried out the following:

type-testing

for the determination of the essential characteristics

Air Permeability – Water tightness – Resistance to Wind Load

on the below mentioned external pedestrian doorset without resistance to fire and/or smoke leakage characteristics
In compliance with EN 12207:1999, EN 12208:1999, EN 12210:1999 – Classification,
EN 1026:2000, EN 1027:2000, EN 12211:2000 – Tests and calculations
System of assessment and verification of constancy of performance 3

The specimen, as provided by the Manufacturer, was identified as follows:

DESCRIPTION OF THE PRODUCT

Type:	Hinged Window, Single Leaf (open in).
Model:	SAMBA 40 – Hinged System **Width**= 800 mm, **Height** = 1,200 mm, Thickness = 40 mm
Fabrication number:	-
Date of fabrication:	2016

Taking into account the documentation submitted by the Manufacturer and on the basis of the results of the type-testing carried out, as described in the laboratory report ECO CP0025/6, dated February 09, 2016, in accordance with Annex ZA of hEN 14351-1:2006 – A1:2010 and with the EN 12207:1999, EN 12208:1999 and EN 12210:1999 classification, to the specimen, as previously identified,

THE FOLLOWING CLASSIFICATION IS AWARDED

AIR PERMEABILITY:	CLASS 4
WATERTIGHTNESS:	CLASS E1050
RESISTANCE TO WIND LOAD:	CLASS C4

The results refer only to the specimen that has been provided by the Manufacturer and submitted to type-testing listed above.
This classification assessment consists of 1 page and its reproduction is permitted in full only.

Faenza, February 12, 2016

Resp. Tecnico ECO S.p.A.
Ing. Gianluca Campodonico

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Tel. +39 0546 624911 • Fax +39 0546 624922
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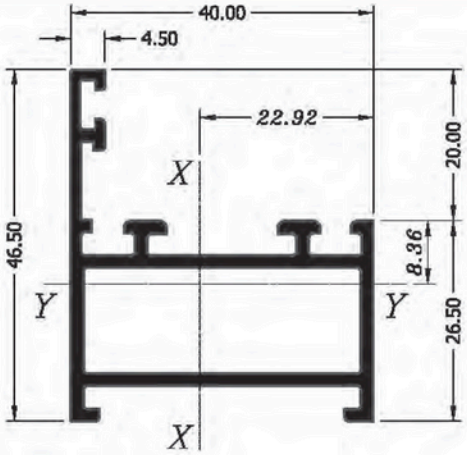
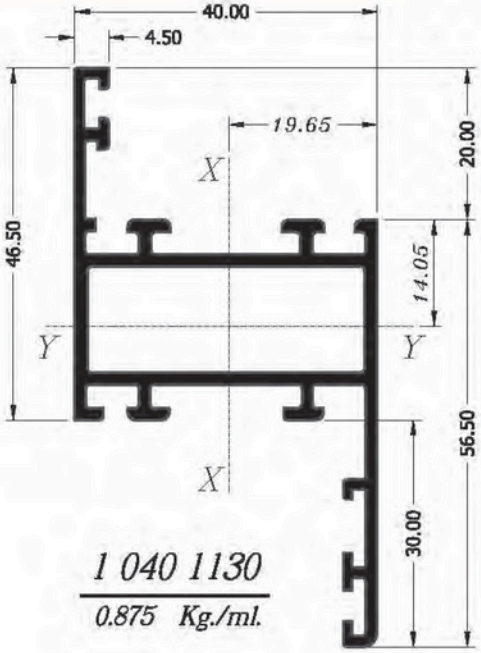


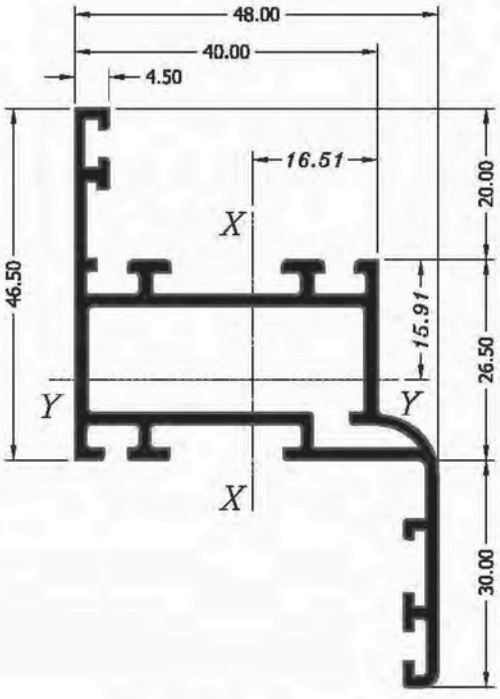
1 040 1100

0.667 Kg./ml.



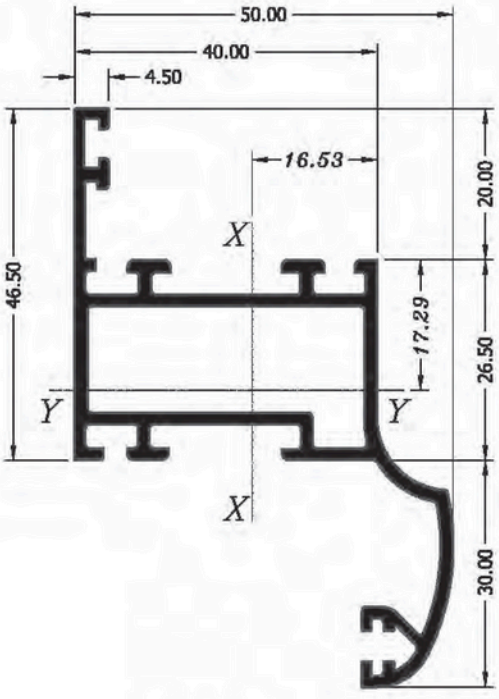
1 040 1130

0.875 Kg./ml.



1 040 1131

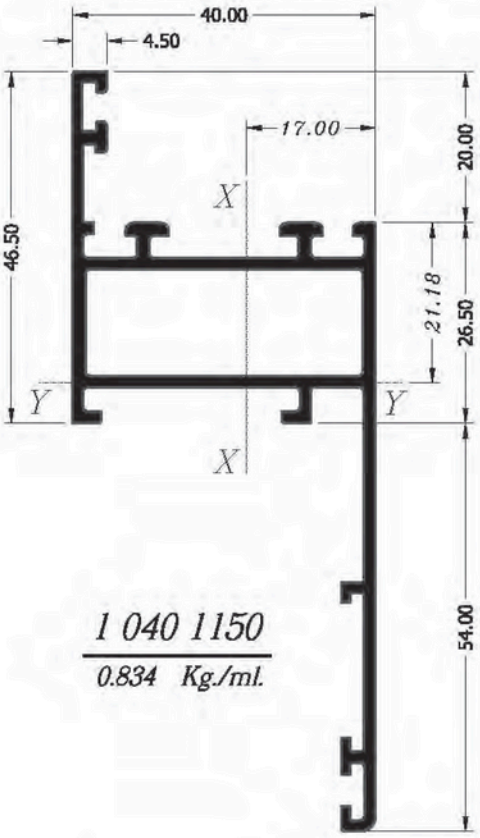
0.918 Kg./ml.



1 040 1132

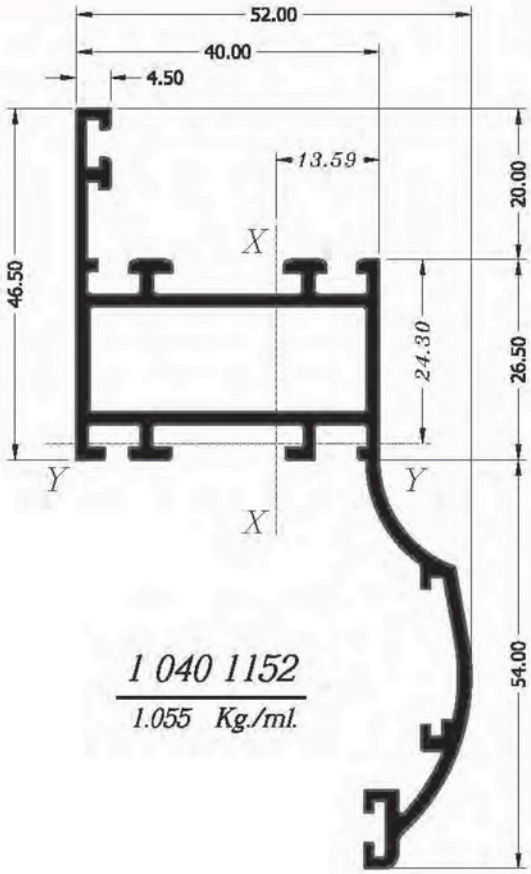
0.937 Kg./ml.

Profile No.	1 040 1100	1 040 1130	1 040 1131	1 040 1132
Profile Old No.	SB 4010	SB 4011	SB 4013	SB 4011.2



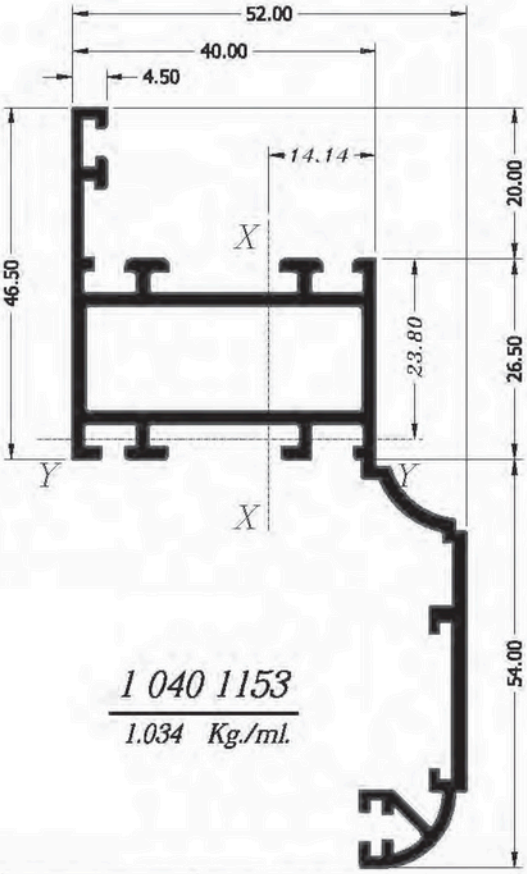
1 040 1150

0.834 Kg./ml.



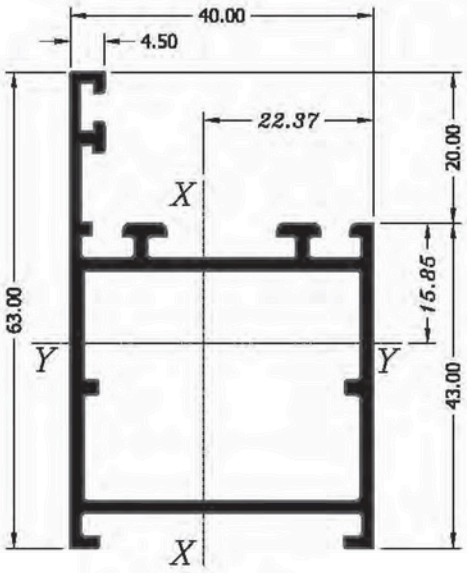
1 040 1152

1.055 Kg./ml.



1 040 1153

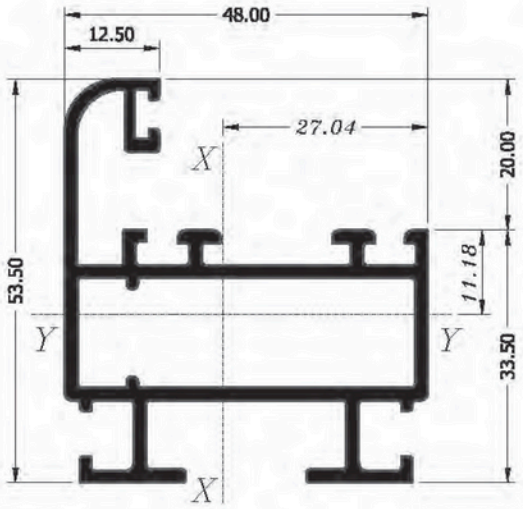
1.034 Kg./ml.



1 040 1200

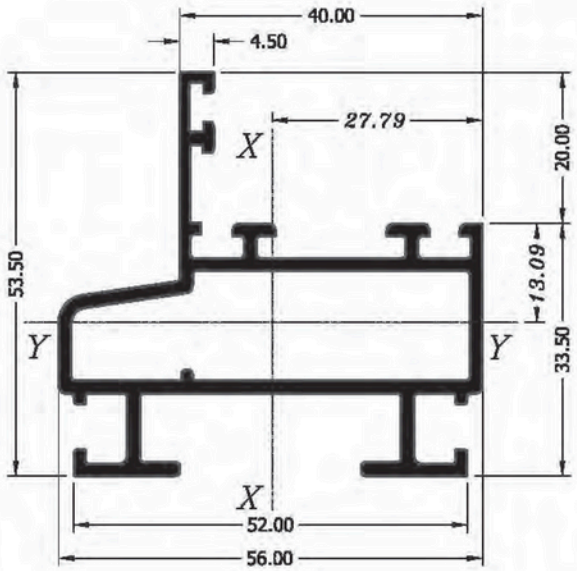
0.813 Kg./ml.

Profile No.	1 040 1150	1 040 1200
Profile Old No.	SB 4012	SB 4015



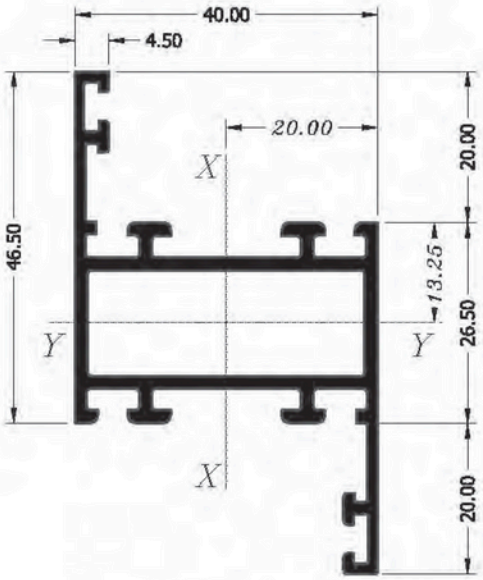
1 040 1420

0.953 Kg./ml.



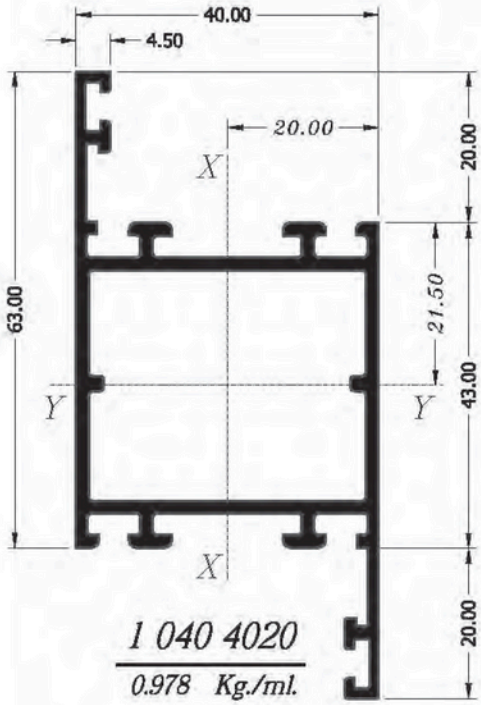
1 040 2062

0.940 Kg./ml.



1 040 4010

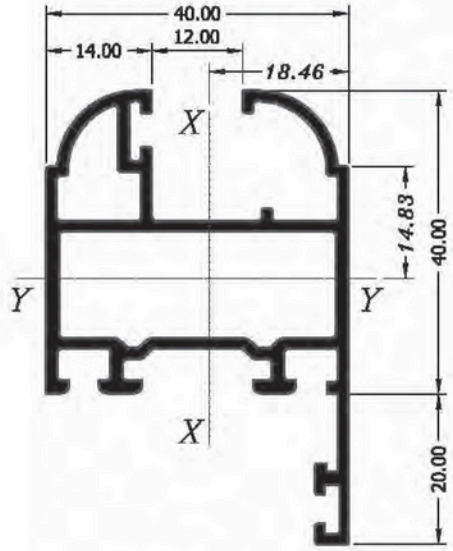
0.832 Kg./ml.



1 040 4020

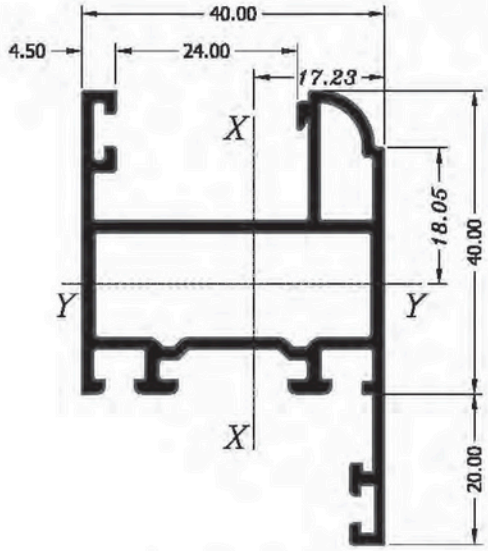
0.978 Kg./ml.

Profile No.	1 040 1420	1 040 2062	1 040 4010	1 040 4020
Profile Old No.	SB 4014	TG 6045	SB 4021	SB 4025



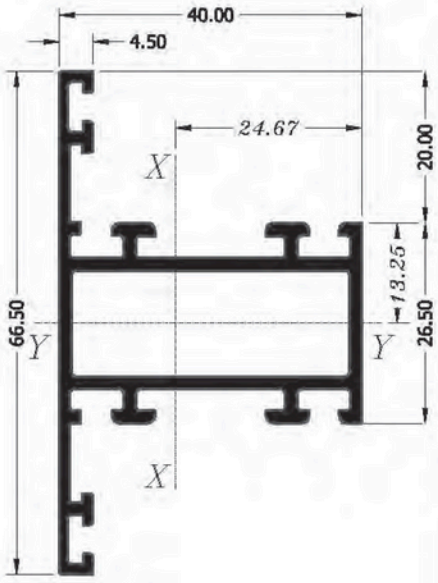
1 040 4143

0.813 Kg./ml.



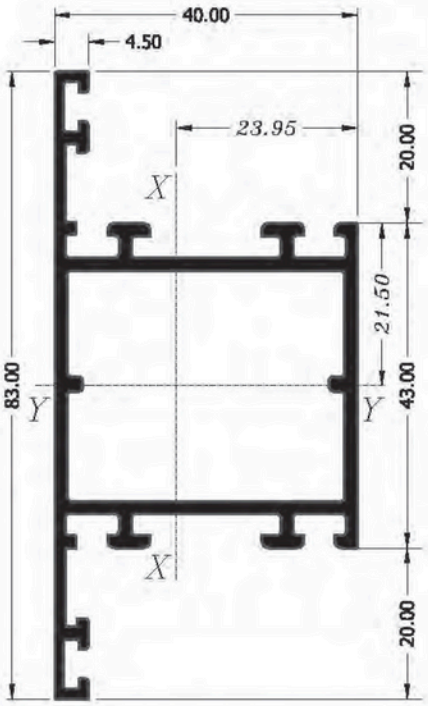
1 040 4153

0.739 Kg./ml.



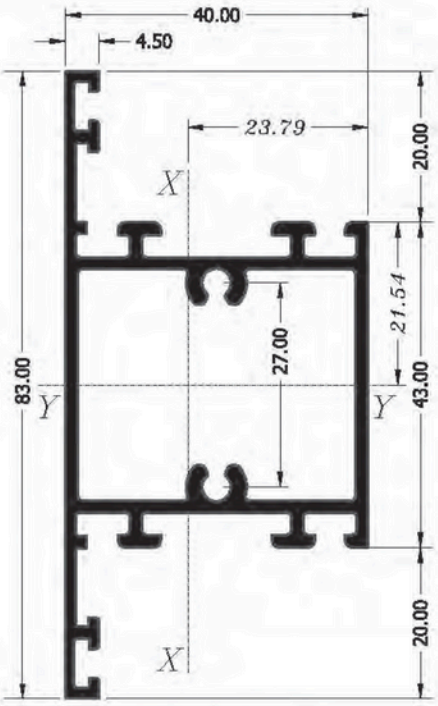
1 040 4210

0.832 Kg./ml.



1 040 4220

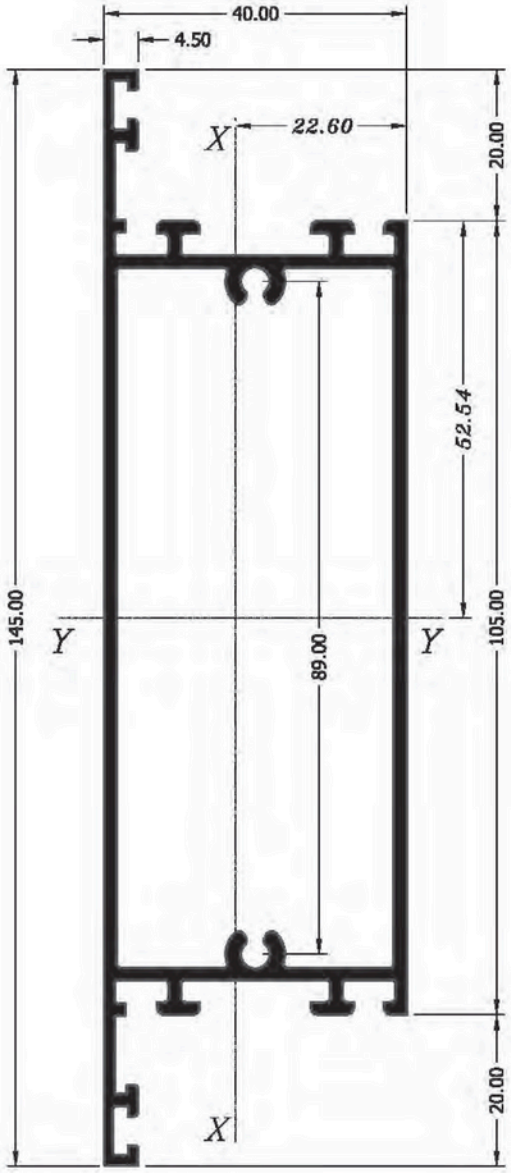
0.978 Kg./ml.



1 040 5120

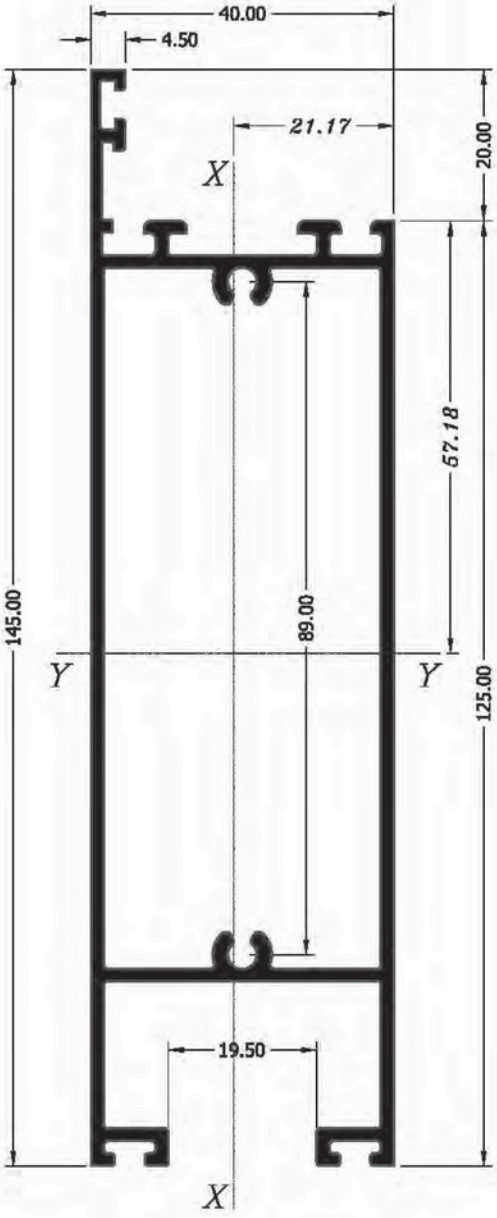
1.030 Kg./ml.

Profile No.	1 040 4143	1 040 4210	1 040 4220	1 040 5120
Profile Old No.	SB 4024	SB 4051	SB 4055	SB 4052



1 040 5130

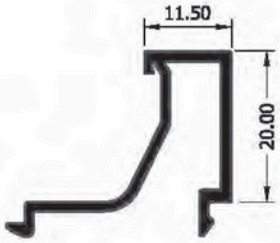
1.493 Kg./ml.



1 040 5330

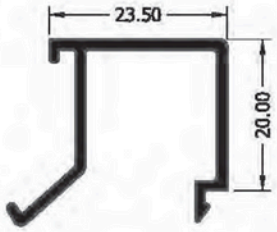
1.647 Kg./ml.

Profile No.	1 040 5130	1 040 5330
Profile Old No.	SB 4053	SB 4058



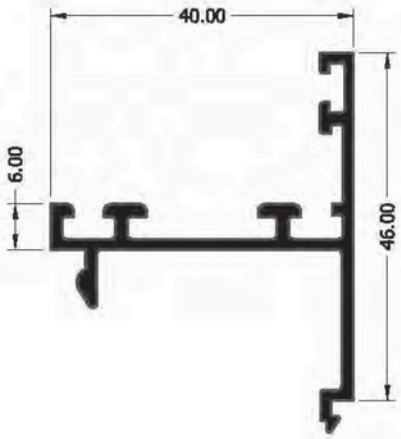
1 040 6170

0.230 Kg./ml.



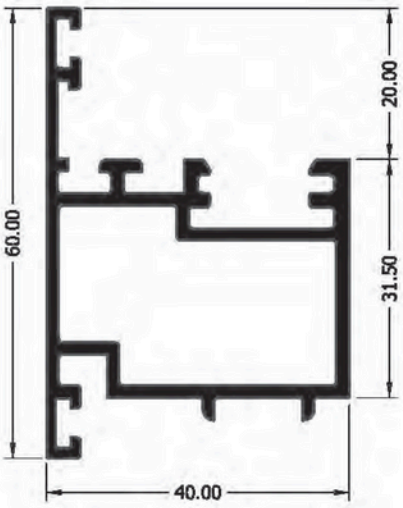
1 040 6230

0.245 Kg./ml.



1 040 9430

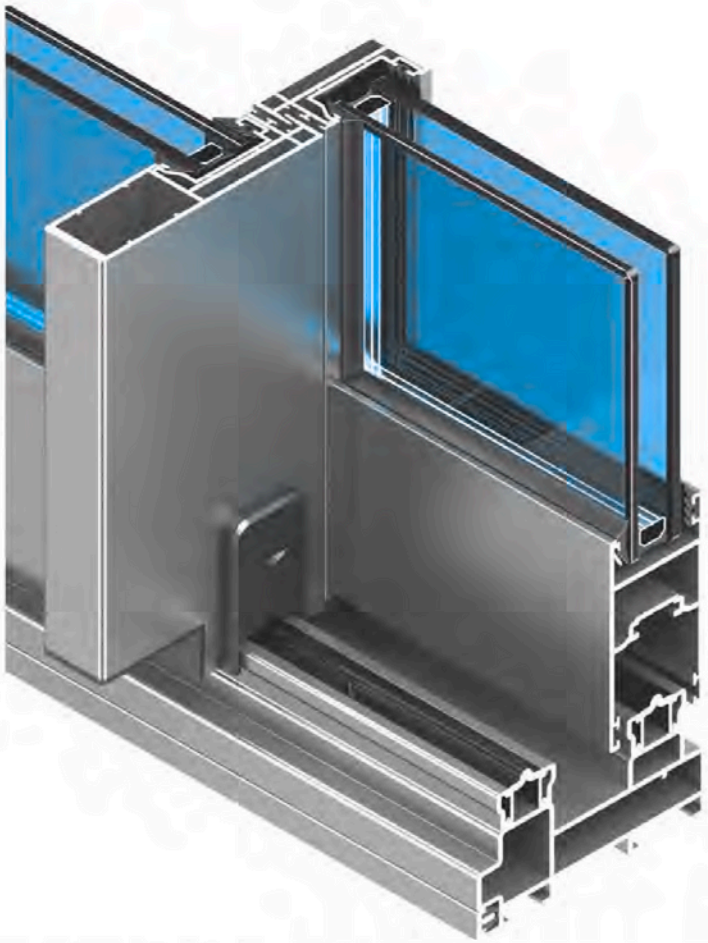
0.494 Kg./ml.



1 040 9610

0.875 Kg./ml.

Profile No.	1 040 9430	1 040 6170	1 040 6230	1 040 9610
Profile Old No.	SB 4083	SB 4066	SB 4063	SB 4072



TENDU 120 - SLIM - PLUS

Sliding System

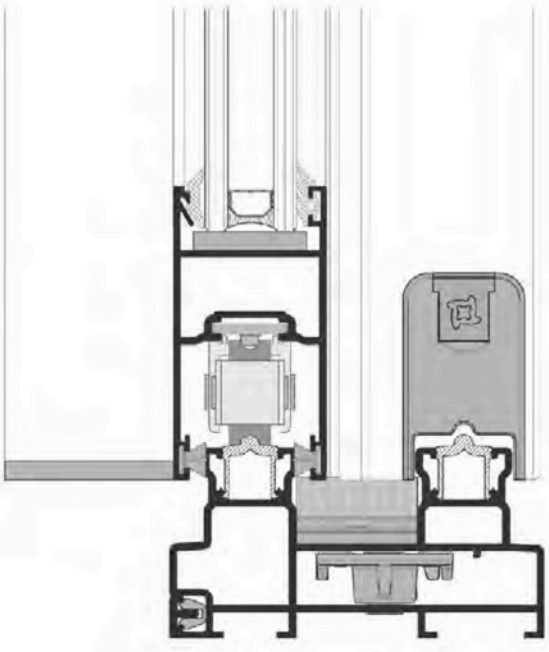
- Offers integrated sliding door solution with facade systems adding an aesthetic value to the glass facades (optional).
- Offers an extensive range of accessories including integrated lift & slide accessories.
- Obtains excellent technical performance and air permeability classifications, using gasket instead of pile weather-strip (optional).
- Used for doors and windows with heavy large sash to obtain a wide view.

Technical Characteristics

Frame	Depth	98 mm. to 134 mm.
	Height	52 mm.
Sash	Depth	40 mm.
	Height	86 mm.
Max Glass Thickness	Up to 27 mm.	
Max Sash Weight	Up to 250 kg.	
Sealing Type	Perimetrical, with two rows of high-denisty brushes EPDM gaskets for tilt and slide.	

Complies with European norm hEN 1435-1

Air Permeability	(Class 3) up to 600 pa.
Water Tightness	(Class 6A) up to 250 pa.
Resistance to wind load	(Class B3) up to 1200 pa.



EUROPEAN CERTIFYING ORGANIZATION S.P.A.
NOTIFIED TESTING LABORATORY N. 0714
FOR REGULATION (EU) No 305/2011

CLASSIFICATION ASSESSMENT
N. 0714-CPR-1290 DATED AUGUST, 05 2015

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, that replaces Council Directive 89/106/EEC and lays down conditions for the placing or making available on the market of construction products by establishing harmonised rules on how to express their performance in relation to their essential characteristics and taking account of the horizontal legal framework for the marketing of products in the internal market, established by Regulation (EC) No. 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products, as well as by Decision No. 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products,
and in compliance with hEN 14351-1:2006 - A1:2010 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics, which is currently in force,
European Certifying Organization S.p.A., notified laboratory NB 0714, carried out the following:

type-testing

for the determination of the essential characteristics

Air Permeability – Water tightness – Resistance to Wind Load

on the below mentioned external pedestrian doorset without resistance to fire and/or smoke leakage characteristics
In compliance with EN 12207:1999, EN 12208:1999, EN 12210:1999 – Classification,
EN 1026:2000, EN 1027:2000, EN 12211:2000 – Tests and calculations
System of assessment and verification of constancy of performance 3

The specimen, as provided by the Manufacturer, was identified as follows:

DESCRIPTION OF THE PRODUCT

Type:	Sliding French door, 2 sliding sashes.
Model:	TENDU 120
	Width= 2,200 mm, Height = 2,200 mm, Thickness = 108 mm
Fabrication number:	-
Date of fabrication:	2015

Taking into account the documentation submitted by the Manufacturer and on the basis of the results of the type-testing carried out, as described in the laboratory report ECO CP0025/3, dated August, 05 2015, in accordance with Annex ZA of hEN 14351-1:2006 - A1:2010 and with the EN 12207:1999, EN 12208:1999 and EN 12210:1999 classification, to the specimen, as previously identified,

THE FOLLOWING CLASSIFICATION IS AWARDED

AIR PERMEABILITY:	**CLASS 3**
WATERTIGHTNESS:	**CLASS 6A**
RESISTANCE TO WIND LOAD:	**CLASS B3**

The results refer only to the specimen that has been provided by the Manufacturer and submitted to type-testing listed above.
This classification assessment consists of 1 page and its reproduction is permitted in full only.

Faenza, August, 05, 2015

The undersigned ECO Certificazioni S.p.A. Scheme Manager CPR1
Eng. Gianluca Campione

ECO CERTIFICAZIONI S.p.A. - ITALY - Via Mengolina, 33 - FAENZA (RA) - www.eco-cert.it

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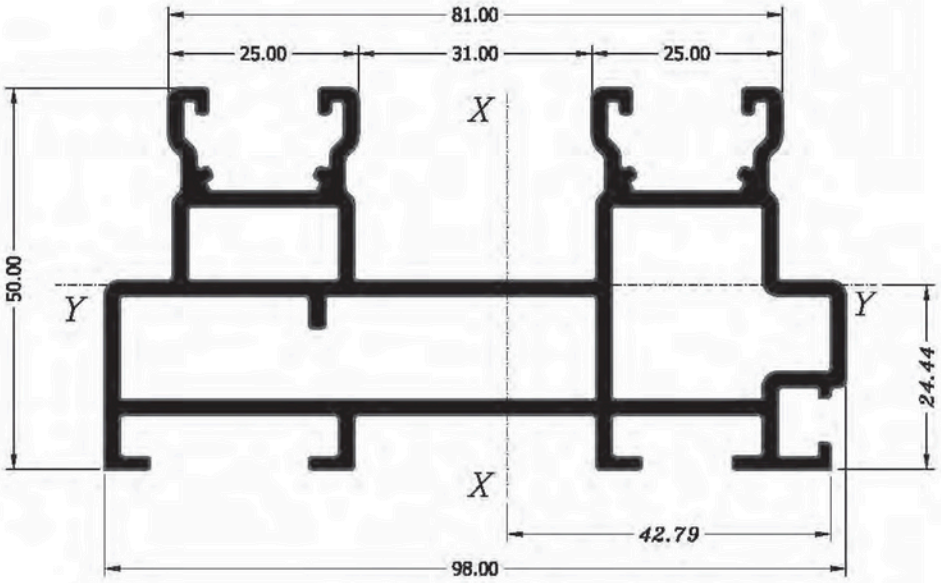
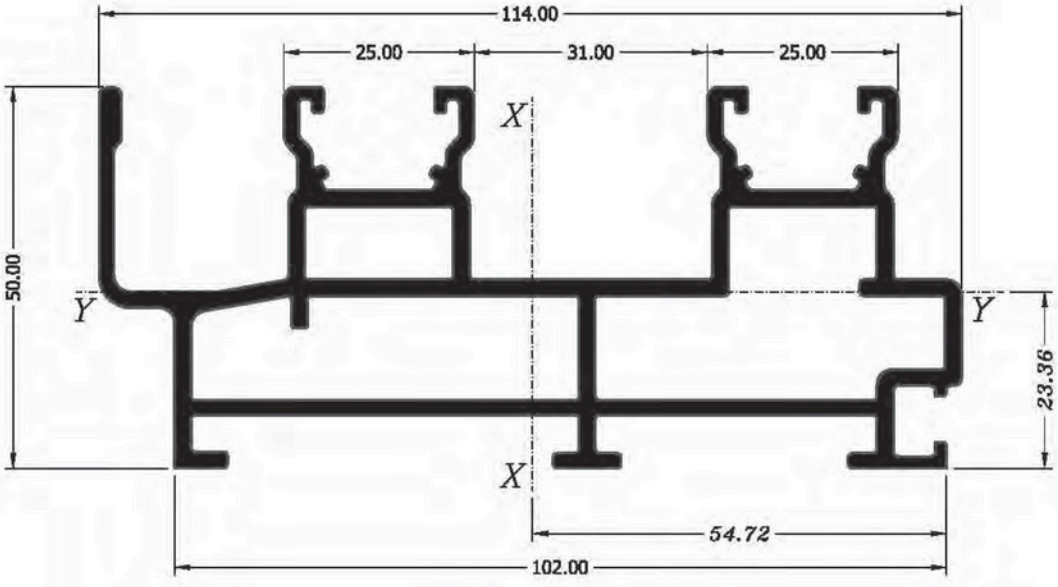
48018 Faenza (RA) - ITALY
Tel. +39 0546 624911 - Fax +39 0546 624922
E-mail: info@eco-cert.it - www.ecocertificazioni.eu



2 120 2010

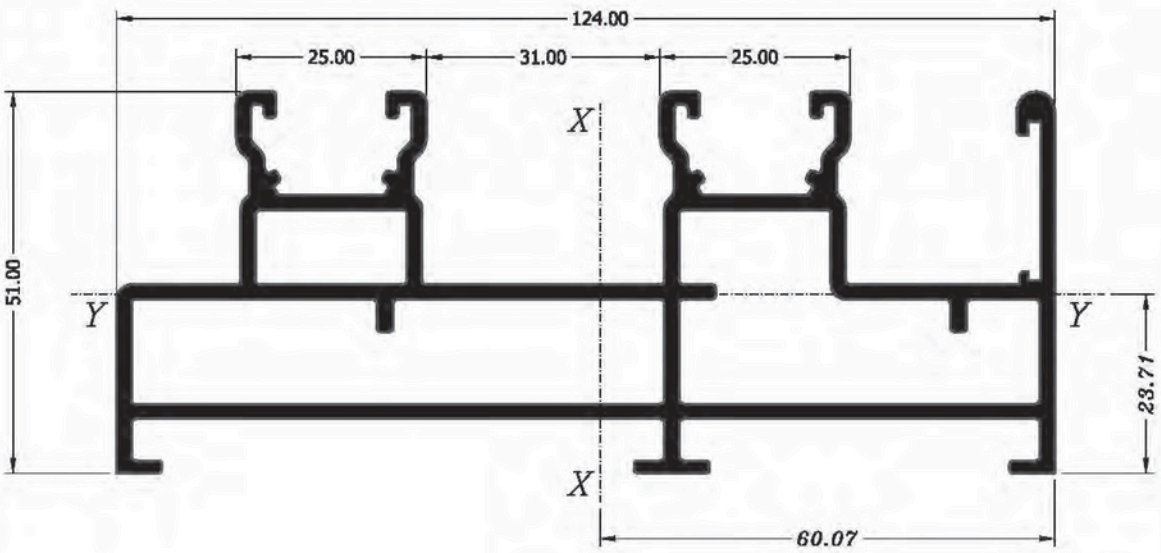
2.098 Kg./ml.



2 120 2110

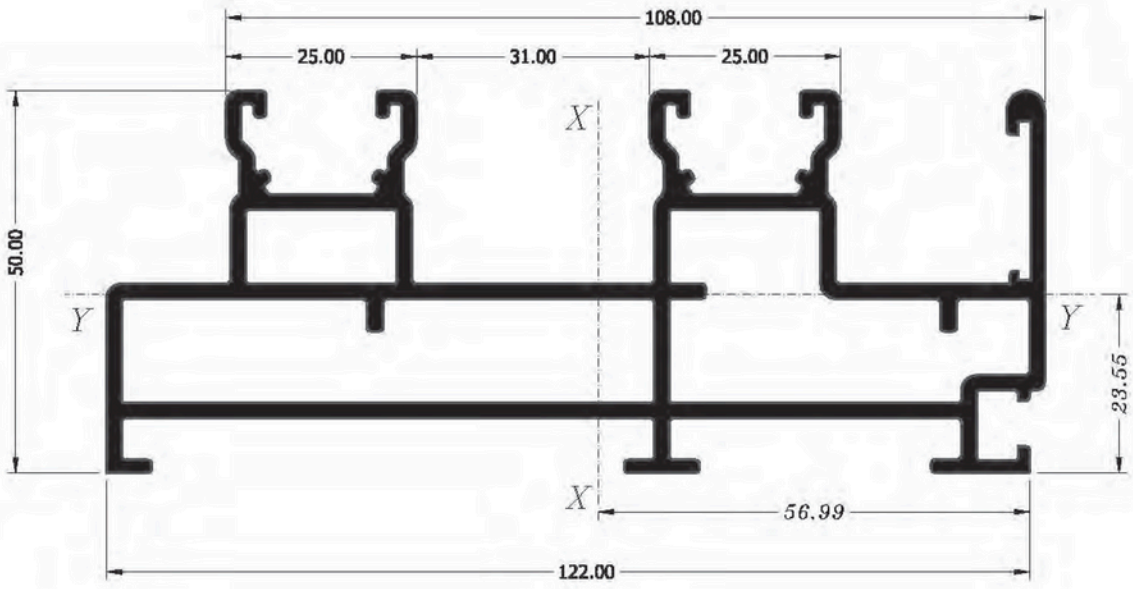
2.562 Kg./ml.

Profile No.	*2 120 2010*	*2 120 2110*
Profile Old No.	*TN 1220*	*Tn 1226*



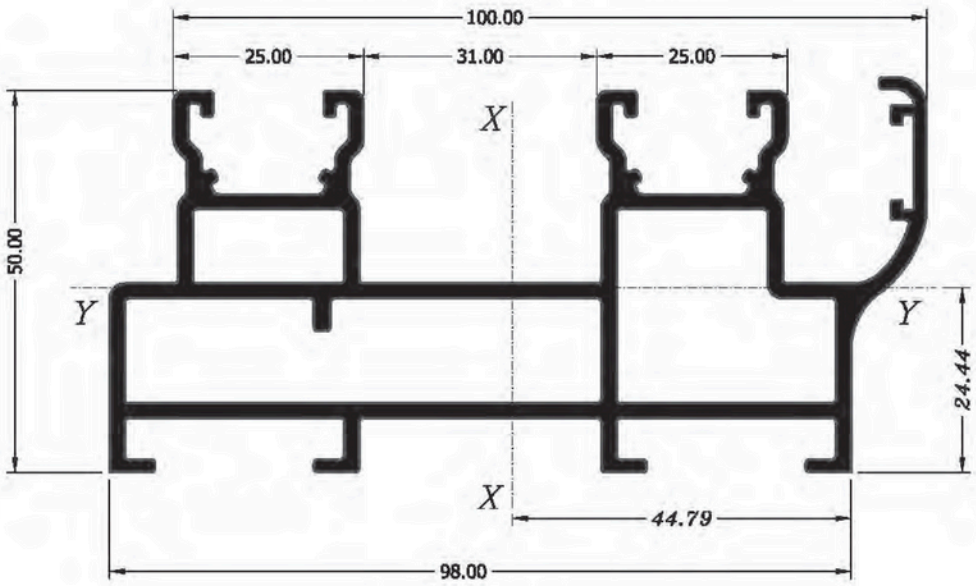
2 120 2200

2.480 Kg./ml.



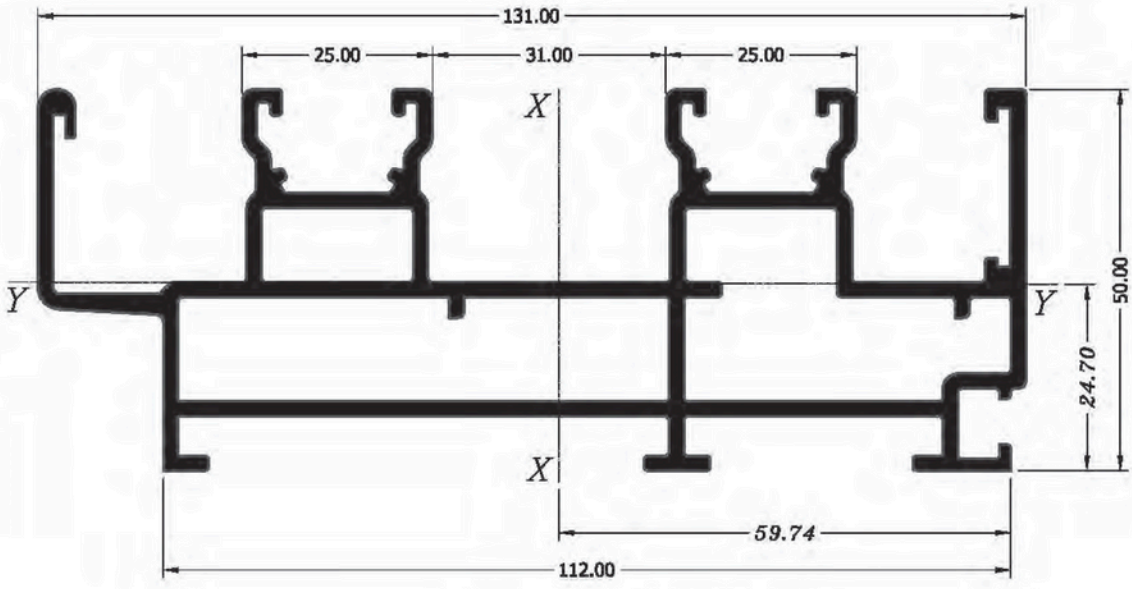
2 120 2210

2.540 Kg./ml.



2 120 2300

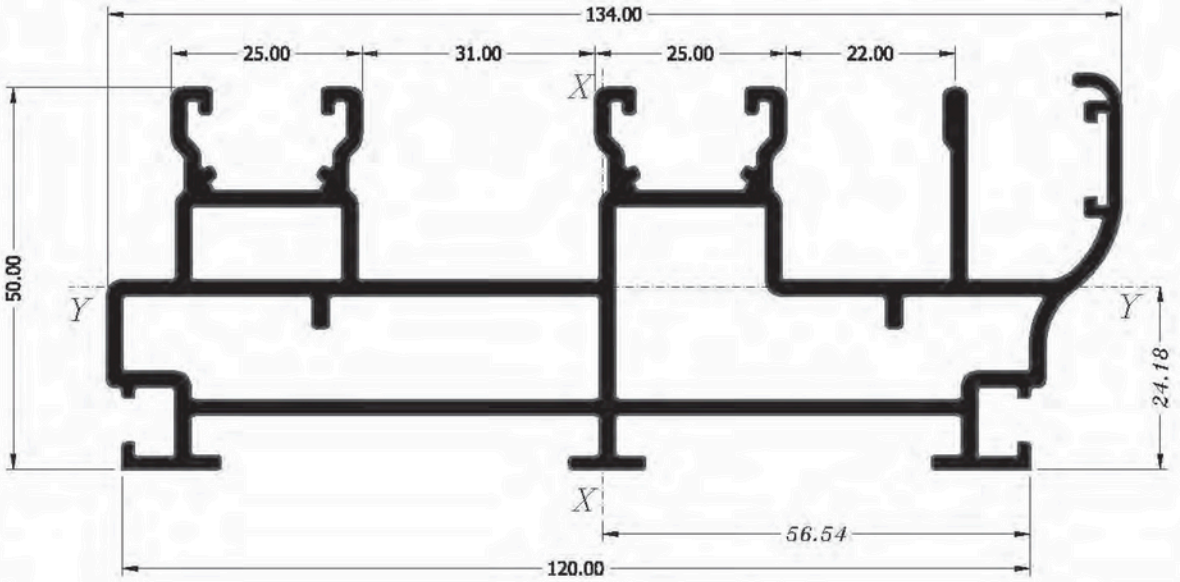
2.272 Kg./ml.



2 120 2410

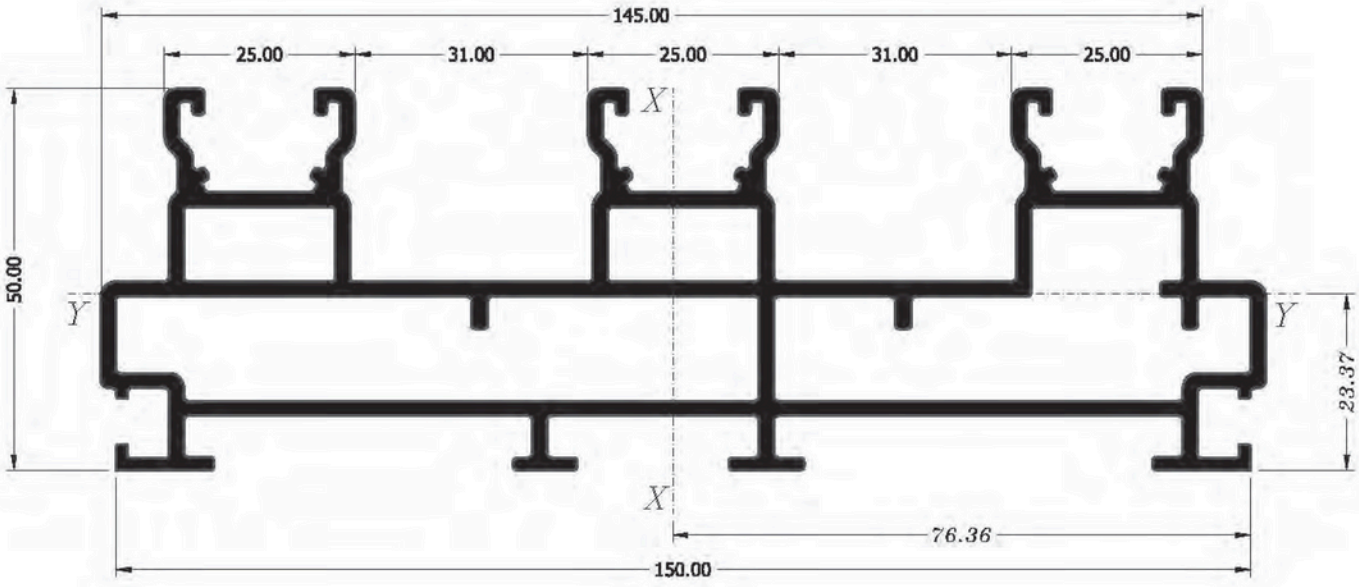
2.673 Kg./ml.

Profile No.	2 120 2300
Profile Old No.	TN 1230



2 120 2520

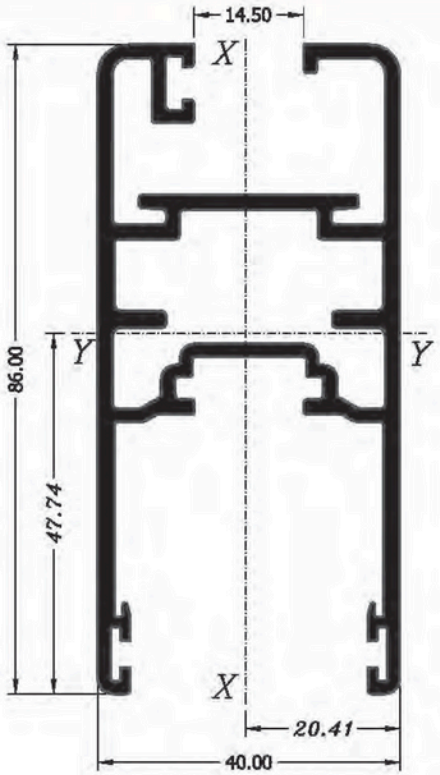
2.730 Kg./ml.



2 120 2620

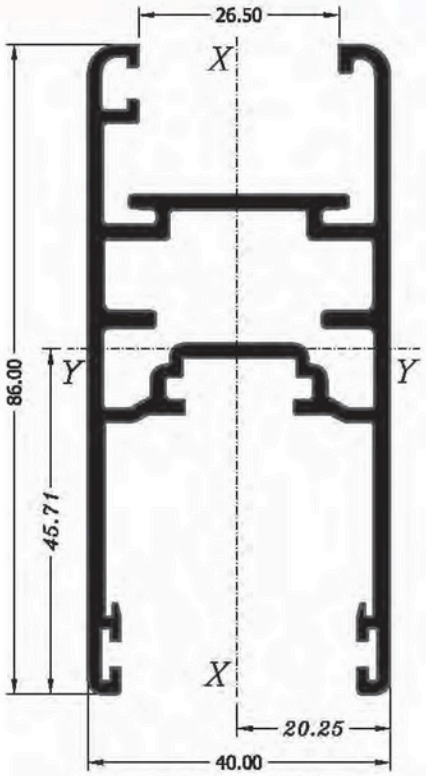
3.192 Kg./ml.

Profile No.	2 120 2520
Profile Old No.	TN 1229



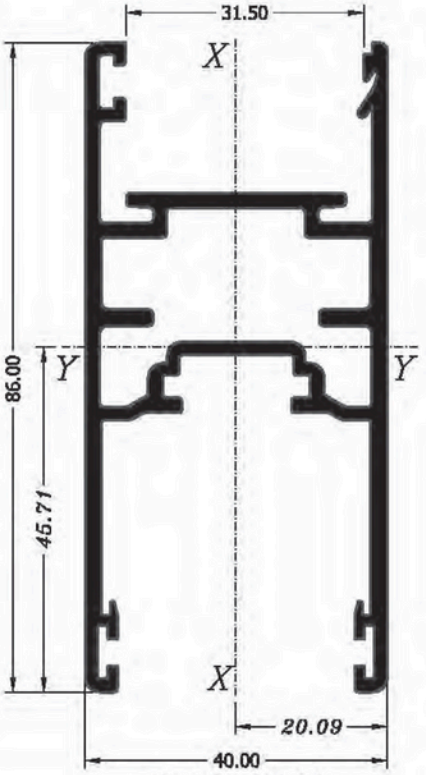
2 120 4110

1.615 Kg./ml.



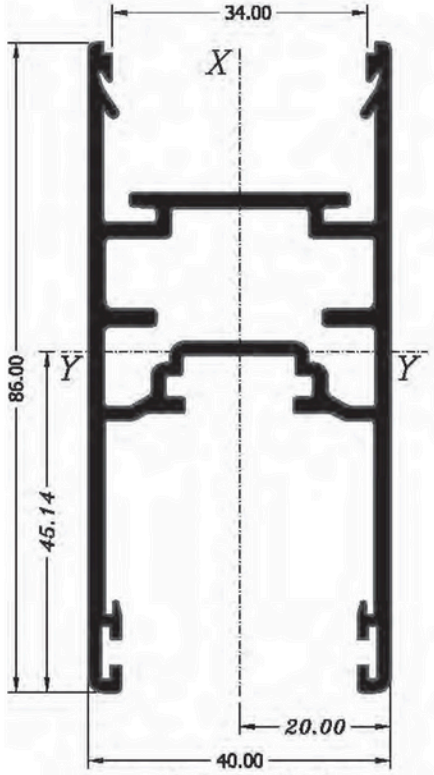
2 120 4120

1.550 Kg./ml.



2 120 4130

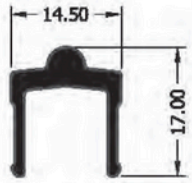
1.520 Kg./ml.



2 120 4230

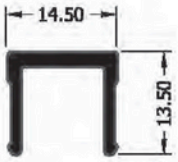
1.504 Kg./ml.

Profile No.	2 120 4110	2 120 4120
Profile Old No.	TN 1240	TN 1242



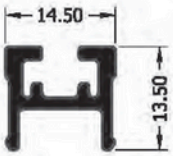
2 120 9210

0.196 Kg./ml.



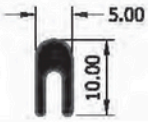
2 120 9220

0.150 Kg./ml.



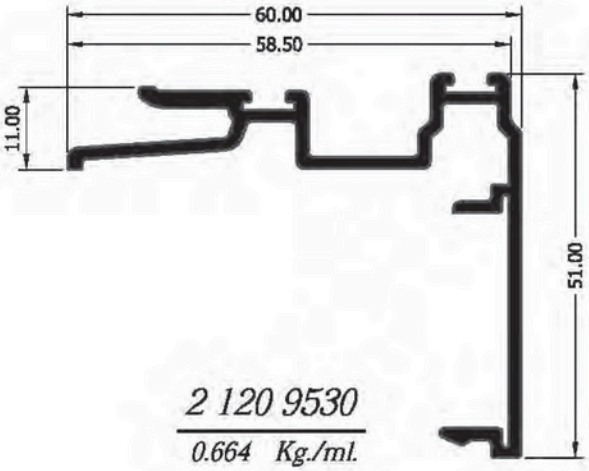
2 120 9240

0.189 Kg./ml.



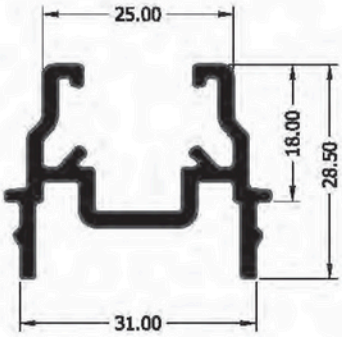
2 120 9250

0.077 Kg./ml.



2 120 9530

0.664 Kg./ml.



2 120 9610

0.562 Kg./ml.



2 120 9510

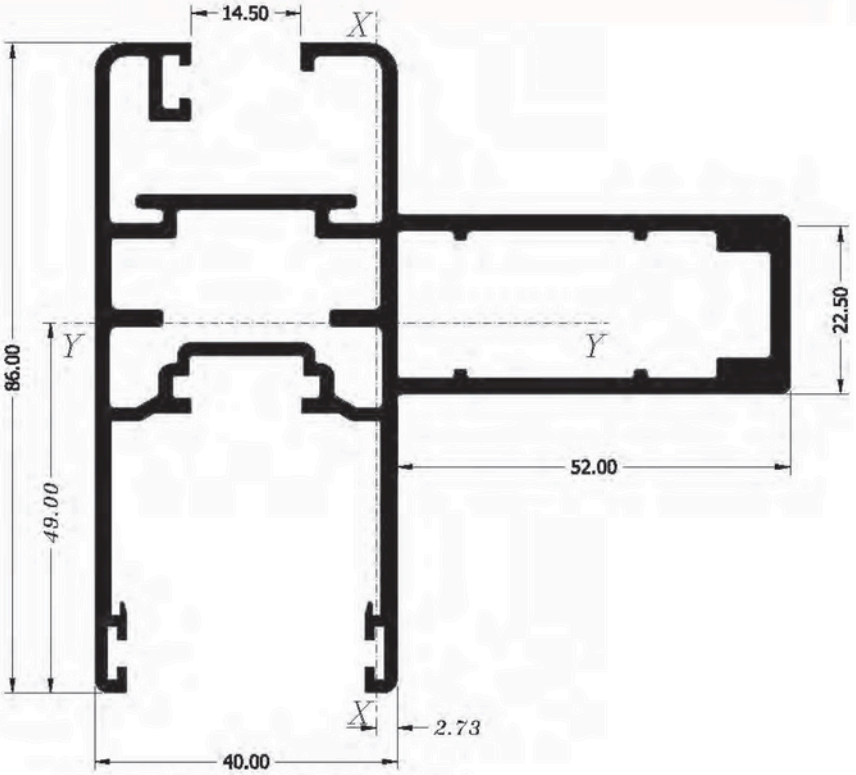
0.560 Kg./ml.



2 120 9520

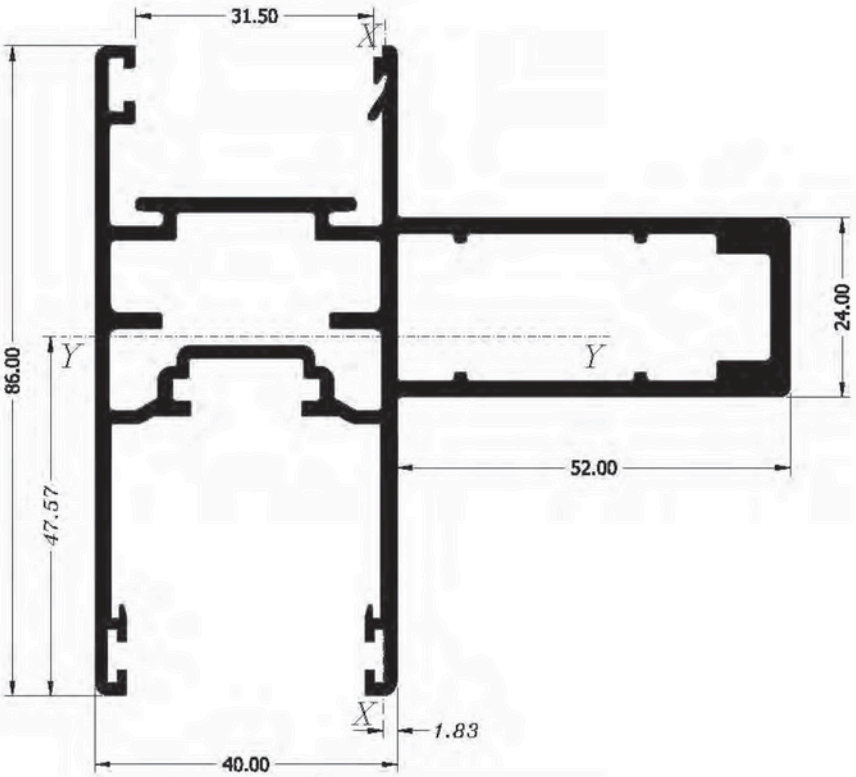
0.240 Kg./ml.

Profile No.	2 120 9210	2 120 9220	2 120 9510	2 120 9520	2 120 9530	2 120 9610
Profile Old No.	TN 1291	TN 1292	TN 1250	TN 1251	TN 1252	TN 1295



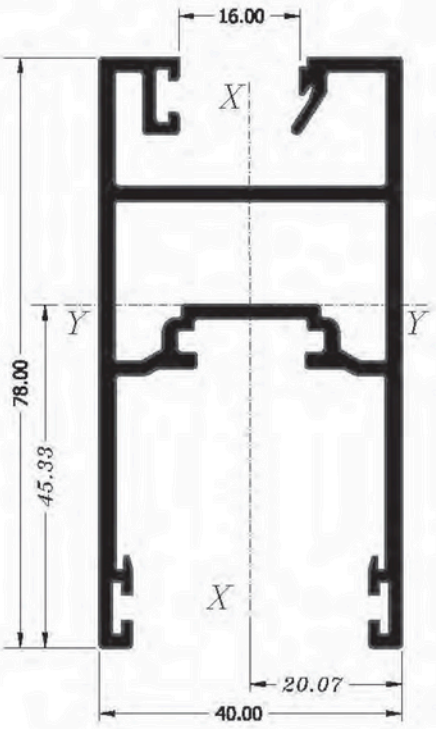
2 120 4310

2.443 Kg./ml.



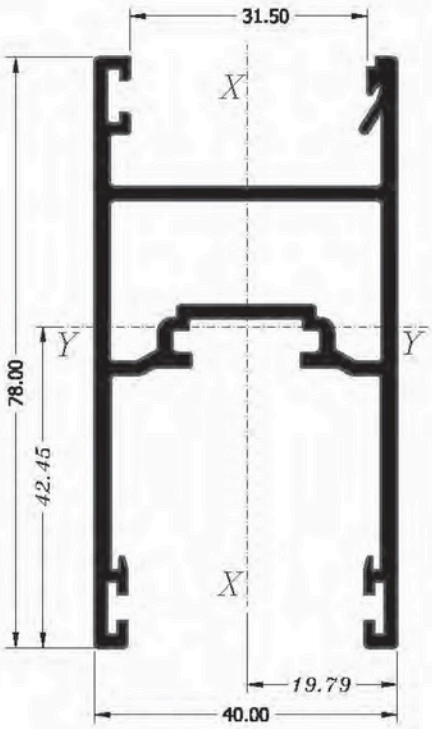
2 120 4330

2.347 Kg./ml.



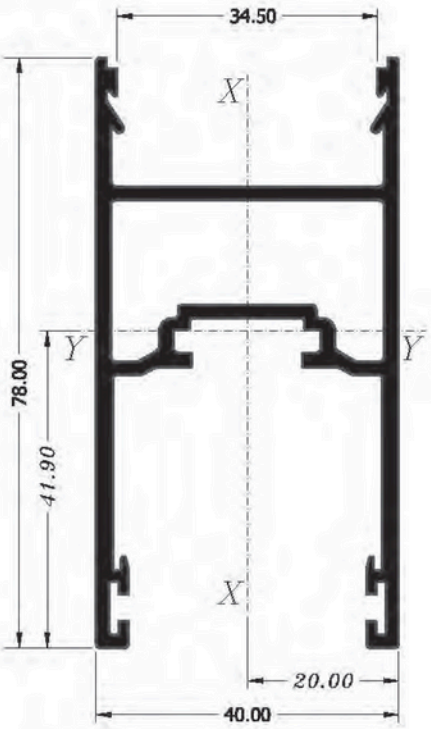
2 120 4510

1.378 Kg./ml.



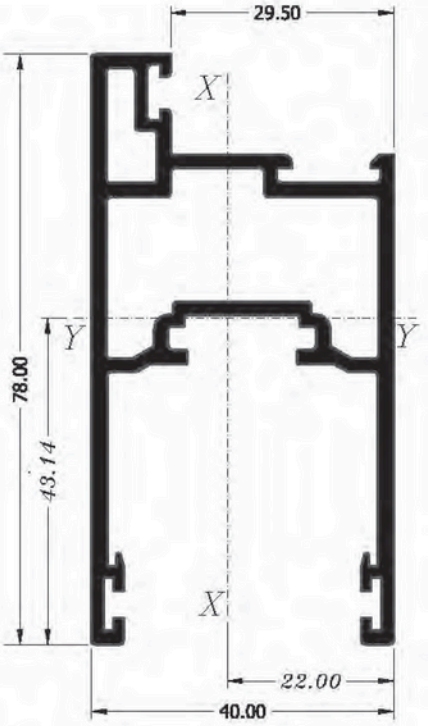
2 120 4520

1.260 Kg./ml.



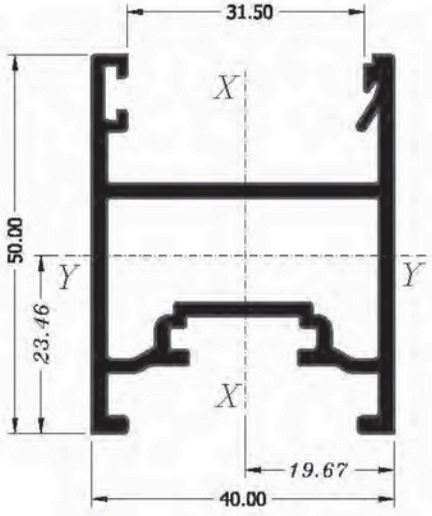
2 120 4530

1.236 Kg./ml.



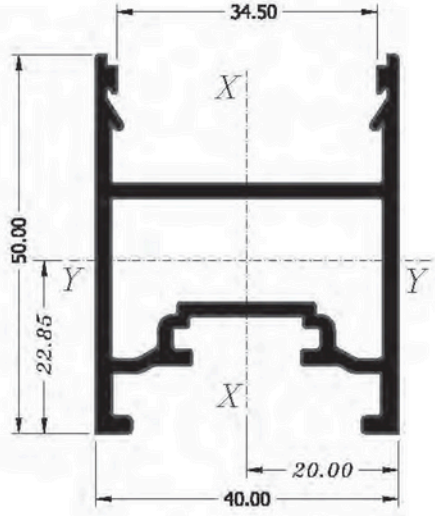
2 120 4540

1.289 Kg./ml.



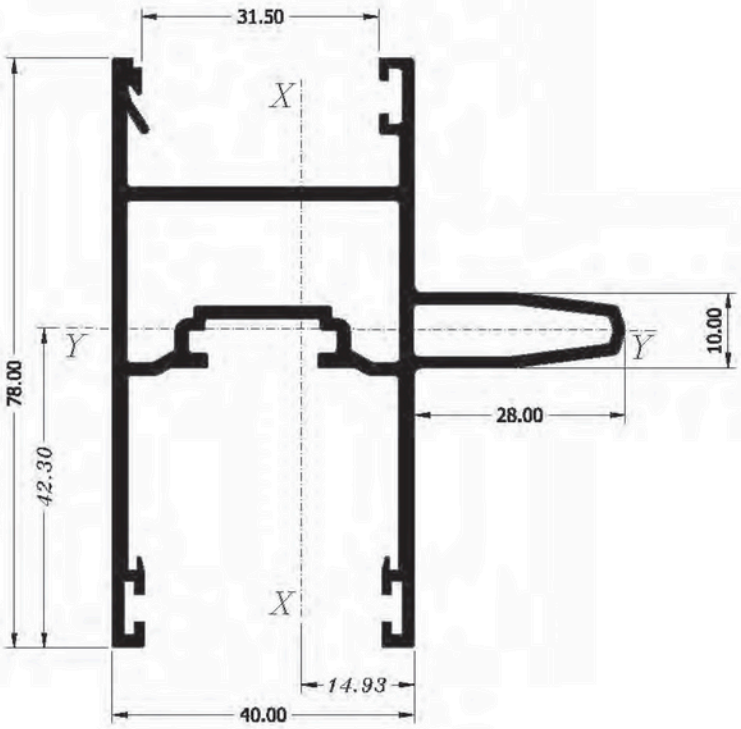
2 120 4570

0.978 Kg./ml.



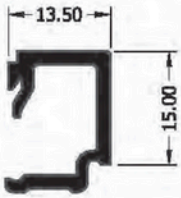
2 120 4580

0.954 Kg./ml.



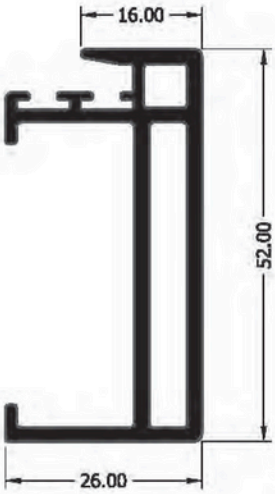
2 120 4721

1.485 Kg./ml.



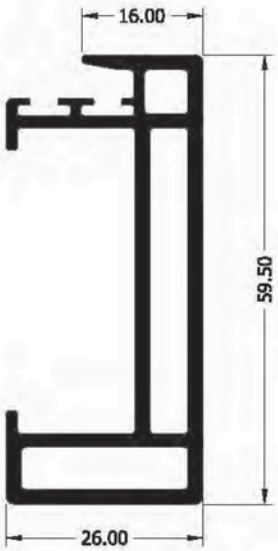
2 120 6240

0.188 Kg./ml.



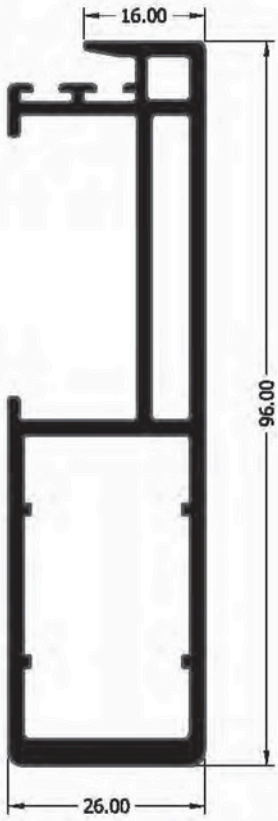
2 120 7020

0.805 Kg./ml.



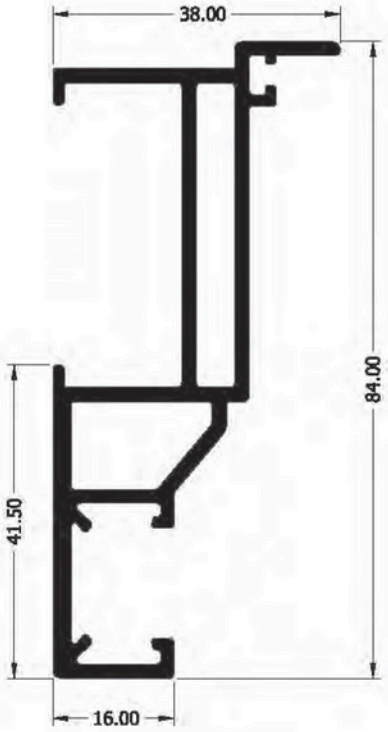
2 120 7120

1.000 Kg./ml.



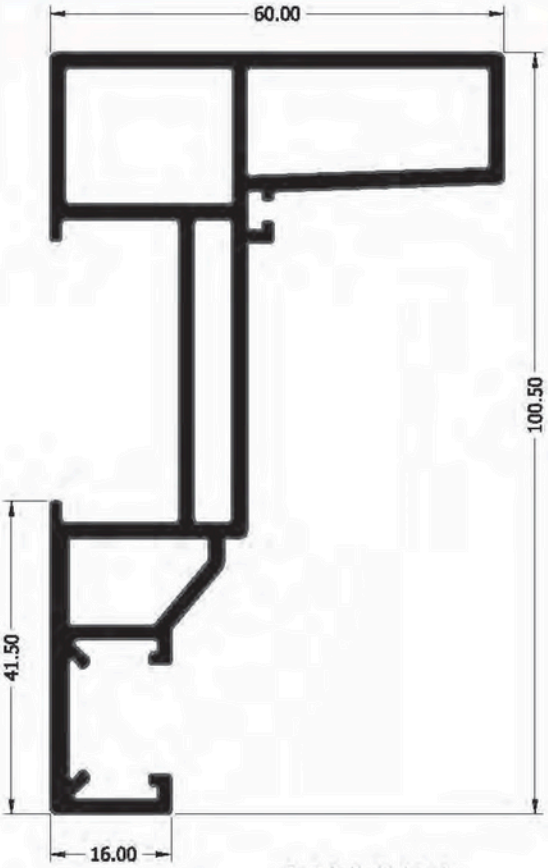
2 120 7320

1.452 Kg./ml.



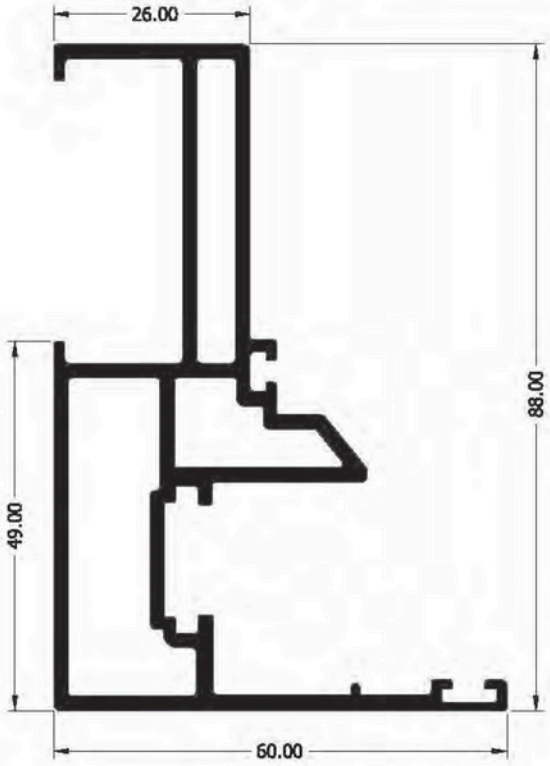
2 120 8404

1.246 Kg./ml.



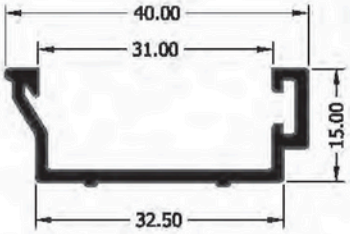
2 120 8414

1.848 Kg./ml.



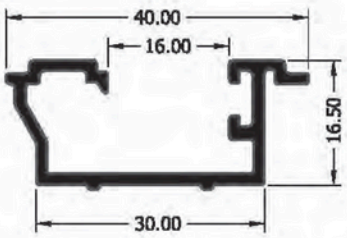
2 120 8304

1.759 Kg./ml.



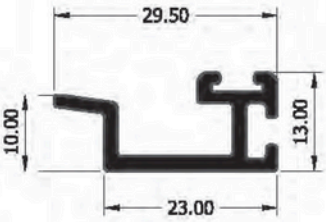
2 120 9820

0.247 Kg./ml.



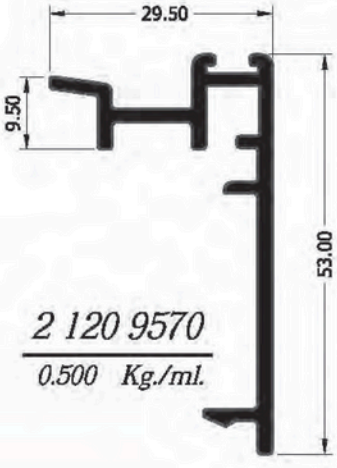
2 120 9830

0.309 Kg./ml.



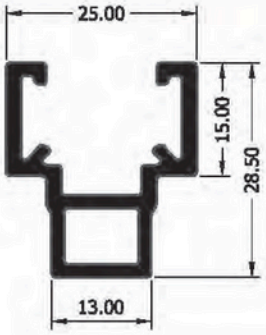
2 120 9580

0.278 Kg./ml.



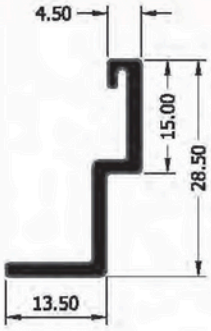
2 120 9570

0.500 Kg./ml.



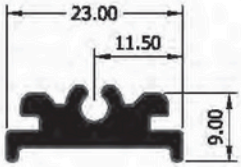
2 120 9310

0.455 Kg./ml.



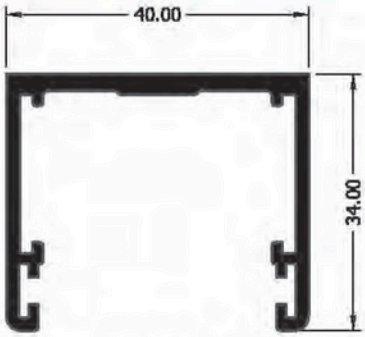
2 120 9320

0.203 Kg./ml.



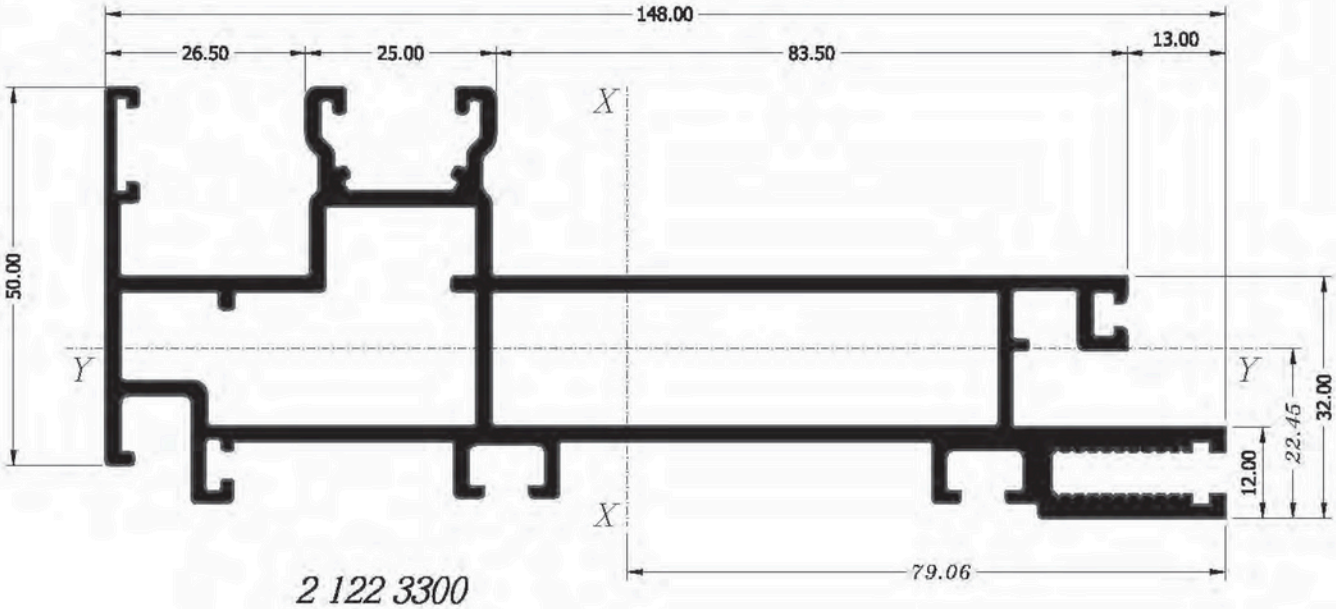
2 120 9950

0.316 Kg./ml.



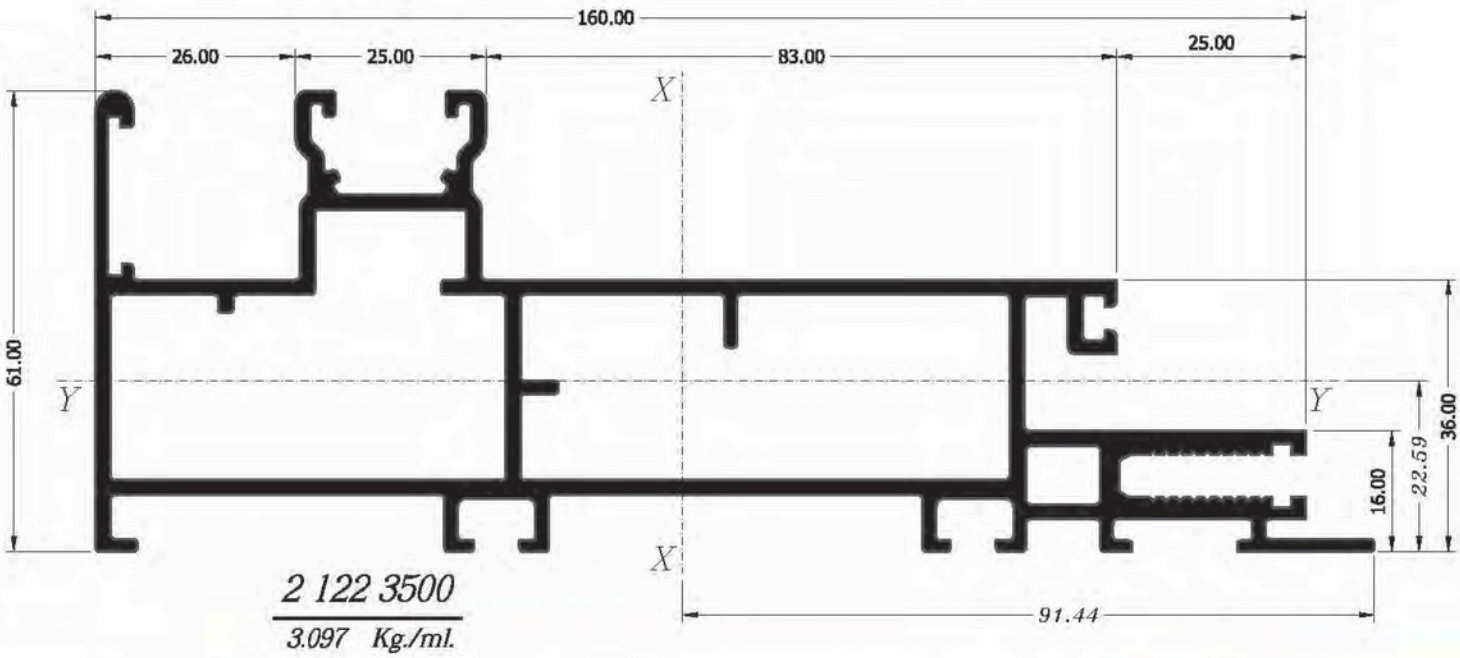
2 120 9410

0.599 Kg./ml.



2 122 3300

2.736 Kg./ml.



2 122 3500

3.097 Kg./ml.

JUMBO 100

Sliding System



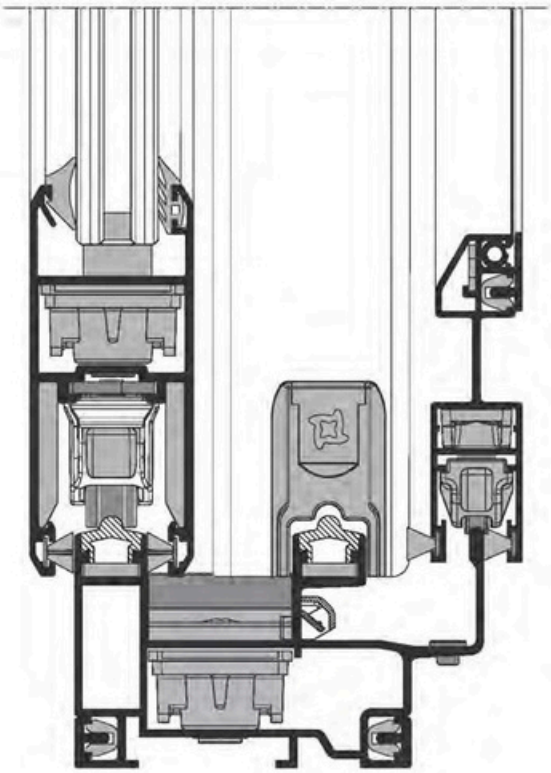
- Wide variety of frames and sashes in design and aesthetic shapes that match the architectural trends.
- Available in the double or triple track design, structures with up to six leaves.
- Used for doors and windows with large openings.
- Wide range of locking systems including multi locking points and anti-lift blocks.
- Most of the accessories can be adjusted and fixed with set screws.

Technical Characteristics

Frame	Depth	74 mm. to 134 mm.
	Height	53 mm. to 107 mm.
Sash	Depth	36 mm.
	Height	86 mm.
Max Glass Thickness	Up to 26 mm.	
Max Sash Weight	Up to 200 kg.	
Sealing Type	Perimetrical, with two rows of high-density brushes	

Complies with European norm hEN 1435-1

Air Permeability	(Class 3) up to 600 pa.
Water Tightness	(Class 8A) up to 450 pa.
Resistance to wind load	(Class B2) up to 800 pa.



EUROPEAN CERTIFYING ORGANIZATION S.P.A.
NOTIFIED TESTING LABORATORY N. 0714
FOR REGULATION (EU) No 305/2011

CLASSIFICATION ASSESSMENT
N. 0714-CPR-1289 DATED AUGUST, 05 2015

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, that replaces Council Directive 89/106/EEC and lays down conditions for the placing or making available on the market of construction products by establishing harmonised rules on how to express their performance in relation to their essential characteristics and taking account of the horizontal legal framework for the marketing of products in the internal market, established by Regulation (EC) No. 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products, as well as by Decision No. 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products,
and in compliance with hEN 14351-1:2006 – A1:2010 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics, which is currently in force,
European Certifying Organization S.p.A., notified laboratory NB 0714, carried out the following:

type-testing

for the determination of the essential characteristics

Air Permeability – Water tightness – Resistance to Wind Load

on the below mentioned external pedestrian doorset without resistance to fire and/or smoke leakage characteristics
In compliance with EN 12207:1999, EN 12208:1999, EN 12210:1999 – Classification,
EN 1026:2000, EN 1027:2000, EN 12211:2000 – Tests and calculations
System of assessment and verification of constancy of performance 3

The specimen, as provided by the Manufacturer, was identified as follows:

DESCRIPTION OF THE PRODUCT

Type:	Sliding French door, 2 sliding sashes.
Model:	JUMBO 100 Width= 2,200 mm, Height = 2,200 mm, Thickness = 94 mm
Fabrication number:	-
Date of fabrication:	2015

Taking into account the documentation submitted by the Manufacturer and on the basis of the results of the type-testing carried out, as described in the laboratory report ECO CP0025/2, dated August, 05 2015, in accordance with Annex ZA of hEN 14351-1:2006 – A1:2010 and with the EN 12207:1999, EN 12208:1999 and EN 12210:1999 classification, to the specimen, as previously identified,

THE FOLLOWING CLASSIFICATION IS AWARDED

AIR PERMEABILITY:	**CLASS 3**
WATERTIGHTNESS:	**CLASS 8A**
RESISTANCE TO WIND LOAD:	**CLASS B2**

The results refer only to the specimen that has been provided by the Manufacturer and submitted to type-testing listed above.
This classification assessment consists of 1 page and its reproduction is permitted in full only.

Faenza, August, 05, 2015

The undersigned ECO Certificazioni S.p.A. Settore Manager CPR
Eng. Gianluca Campedelli

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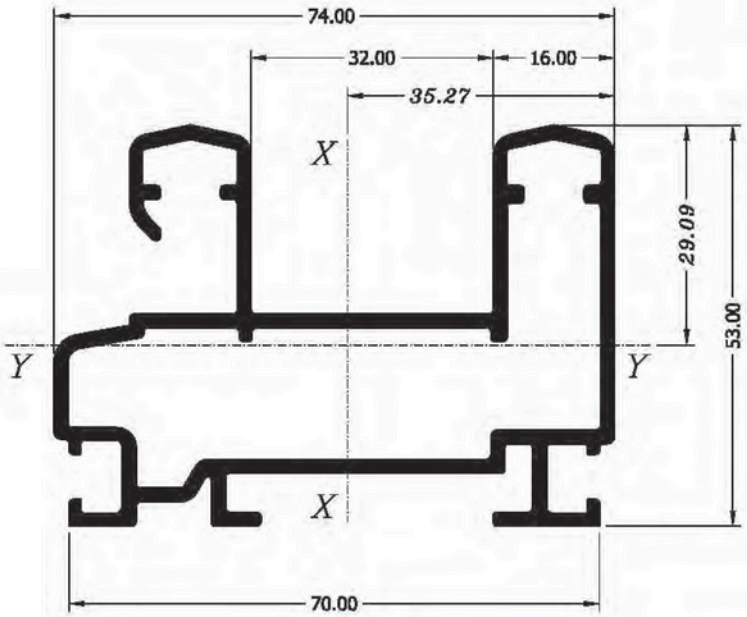
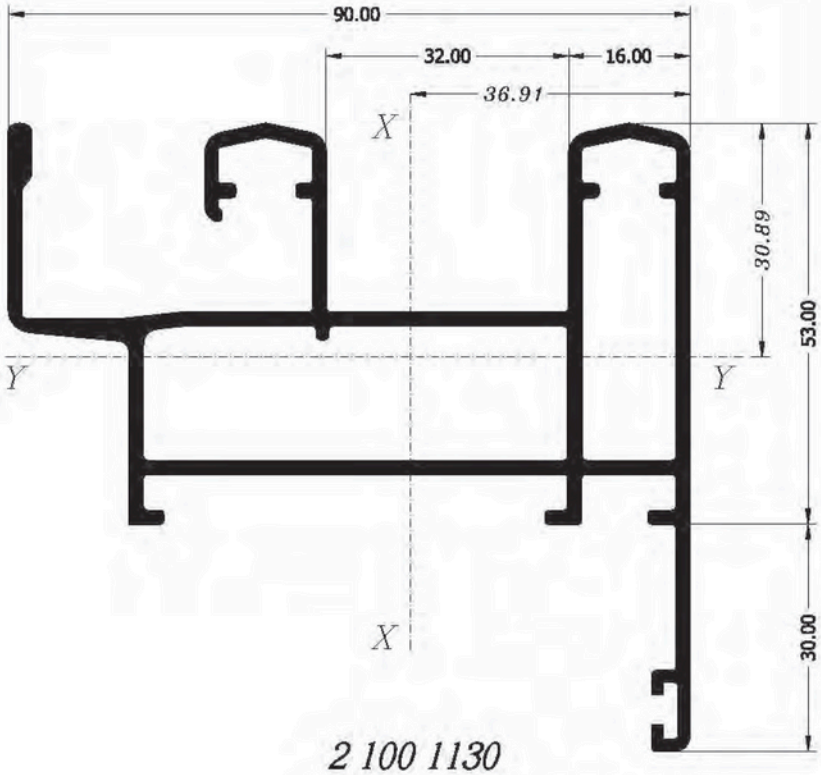
Tel. +39 0546 624911 - Fax +39 0546 624922
E-mail: info@eco-cert.it - www.ecocertificazioni.eu



2 100 1020

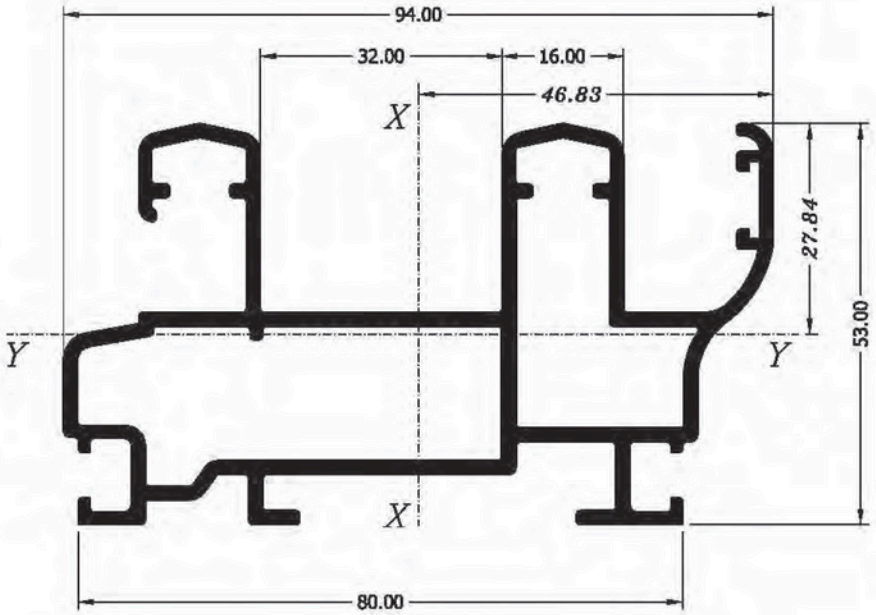
1.504 Kg./ml.



2 100 1130

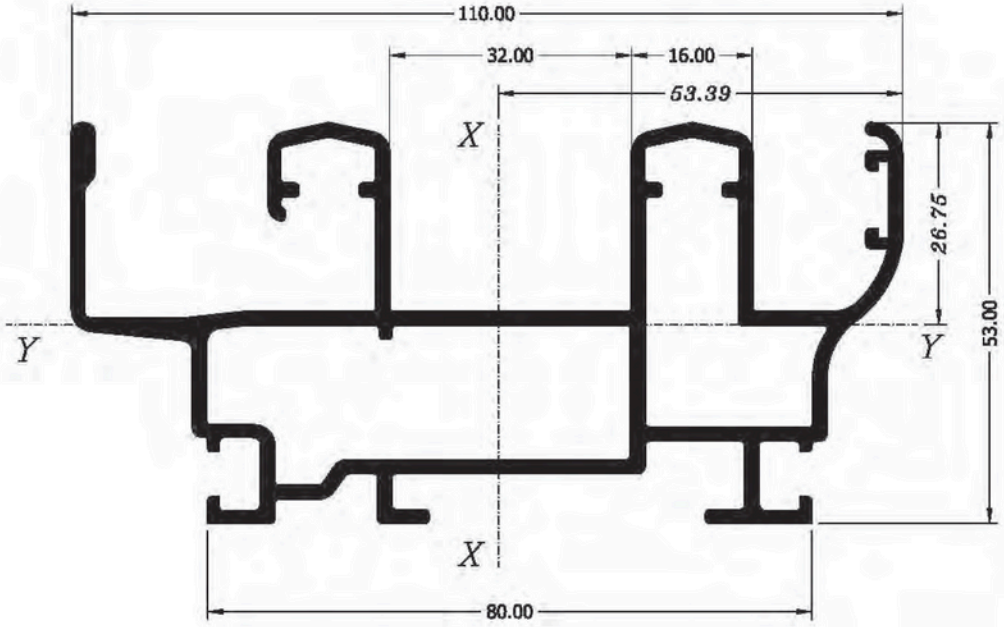
1.667 Kg./ml.

Profile No.	2 100 1020	2 100 1130
Profile Old No.	J 1027	J 1013



2 100 1320

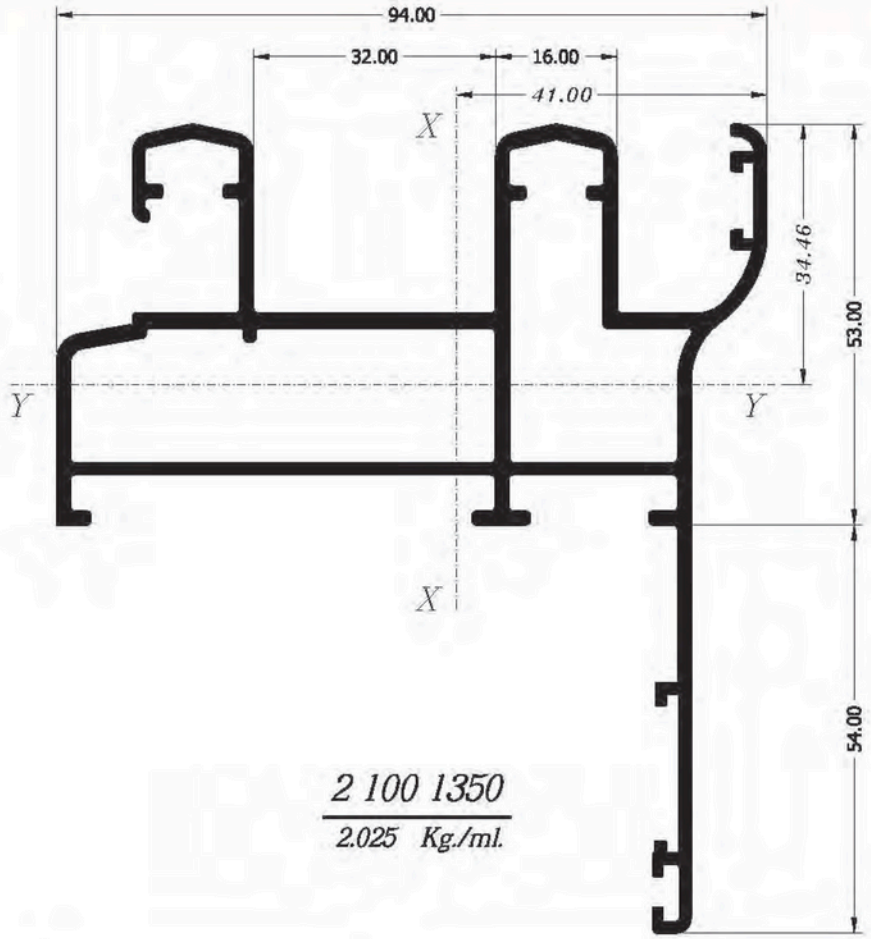
1.781 Kg./ml.



2 100 1420

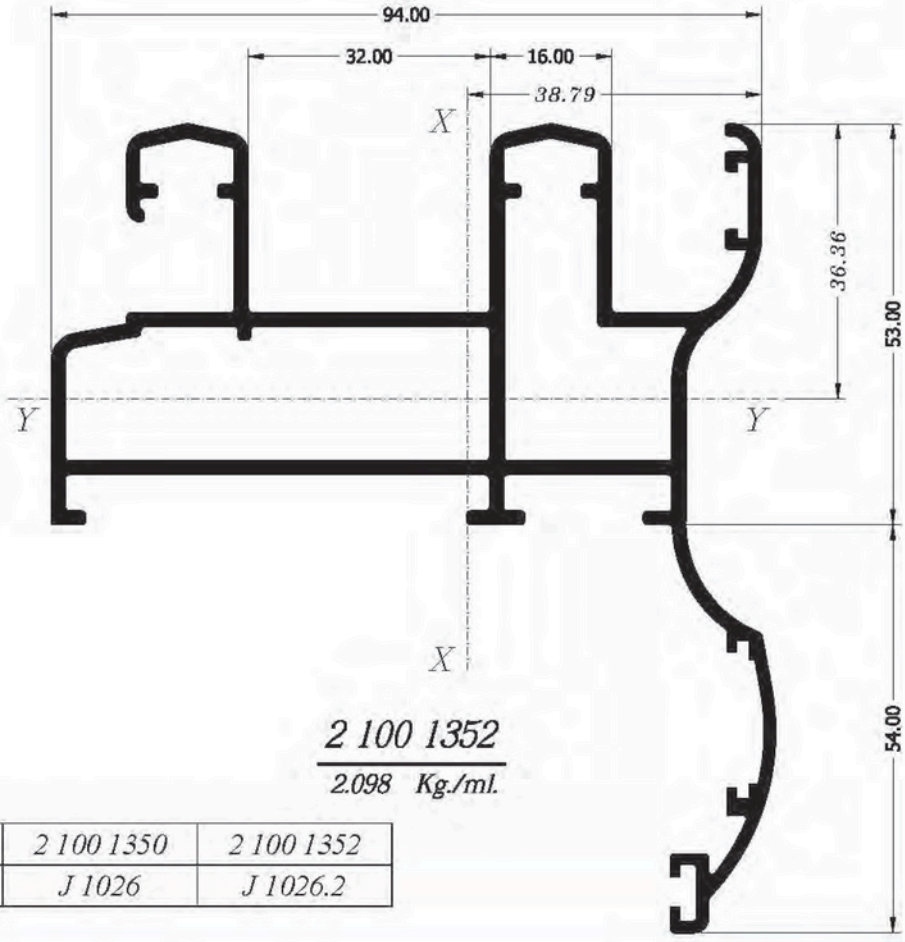
2.014 Kg./ml.

Profile No.	2 100 1320	2 100 1420
Profile Old No.	J 1028	J 1031



2 100 1350

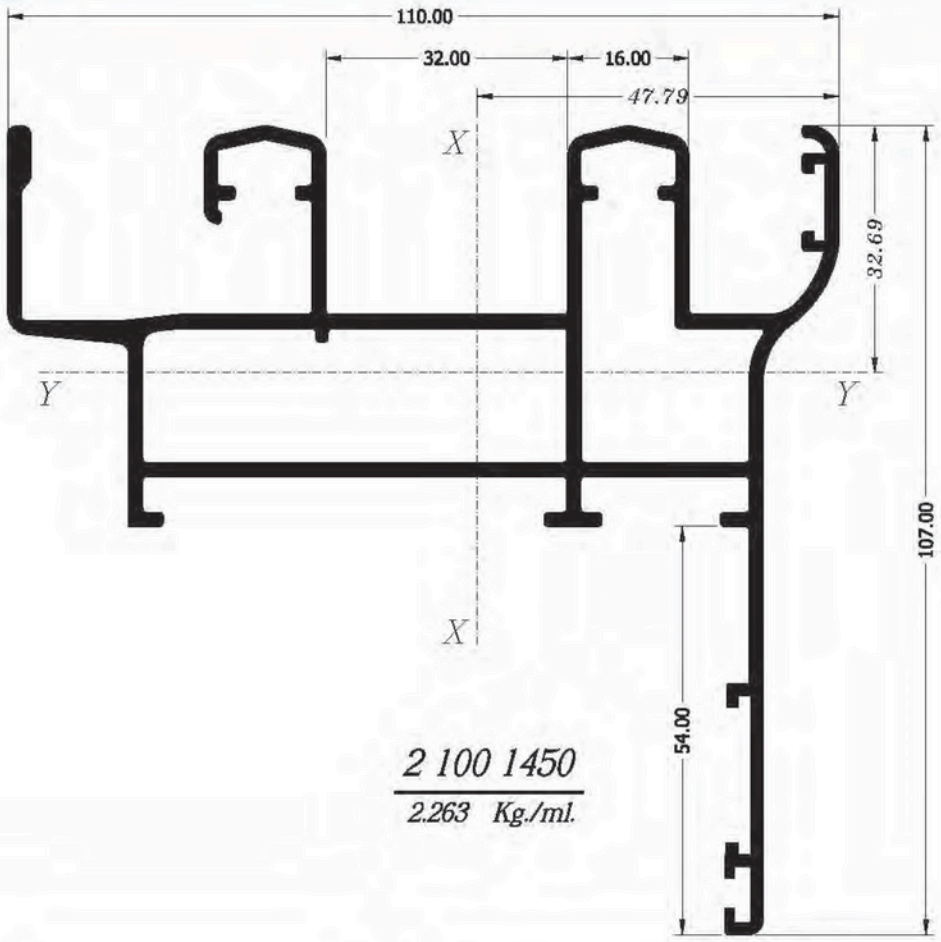
2.025 Kg./ml.



2 100 1352

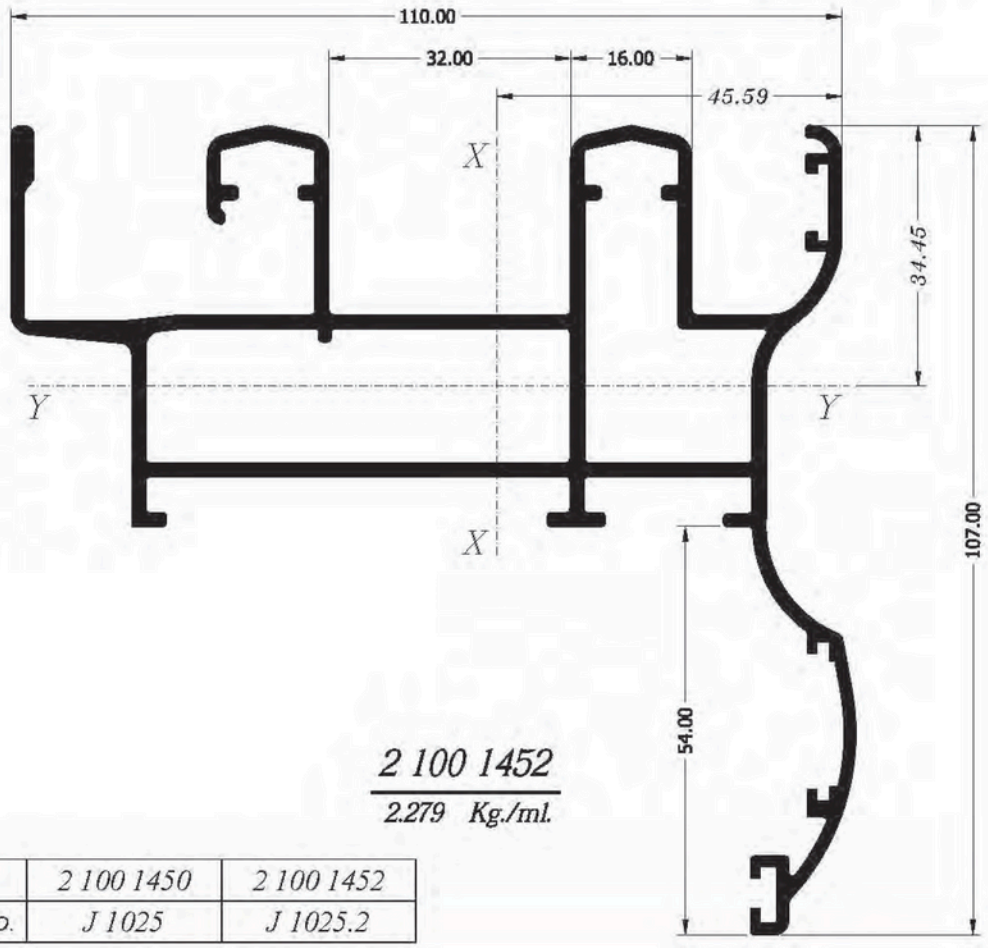
2.098 Kg./ml.

Profile No.	2 100 1350	2 100 1352
Profile Old No.	J 1026	J 1026.2



2 100 1450

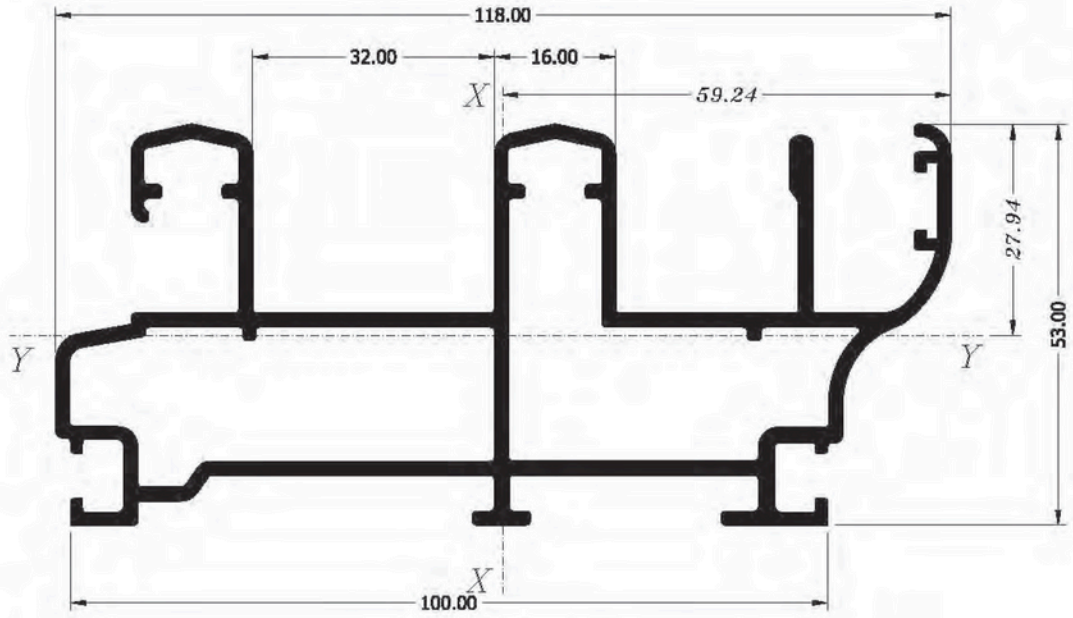
2.263 Kg./ml.



2 100 1452

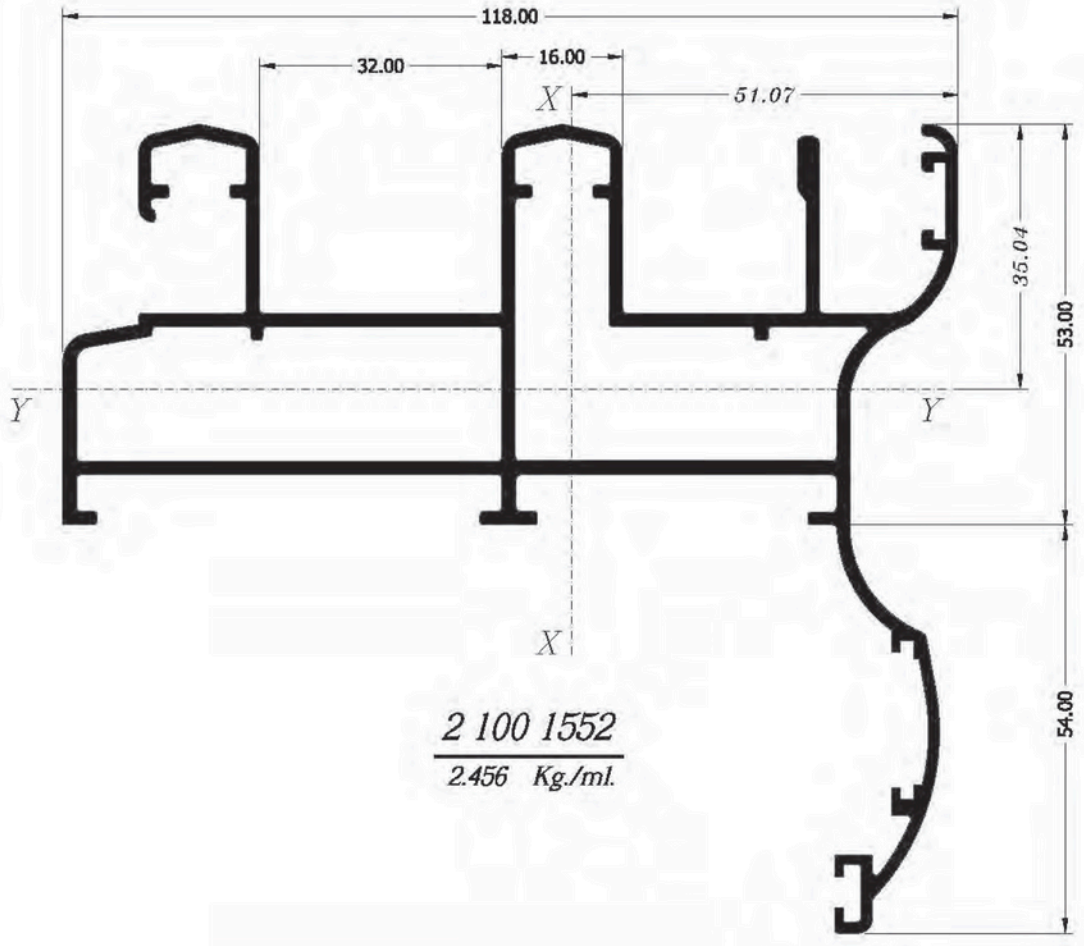
2.279 Kg./ml.

Profile No.	2 100 1450	2 100 1452
Profile Old No.	J 1025	J 1025.2



2 100 1520

2.135 Kg./ml.

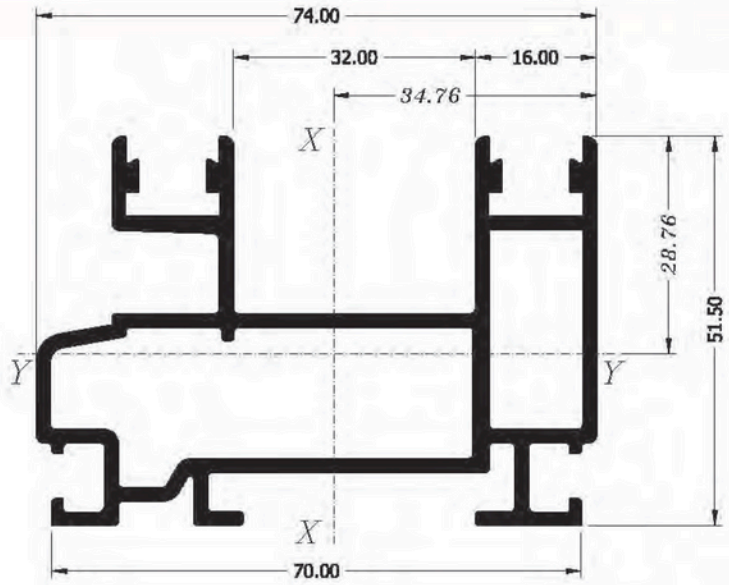


2 100 1552

2.456 Kg./ml.

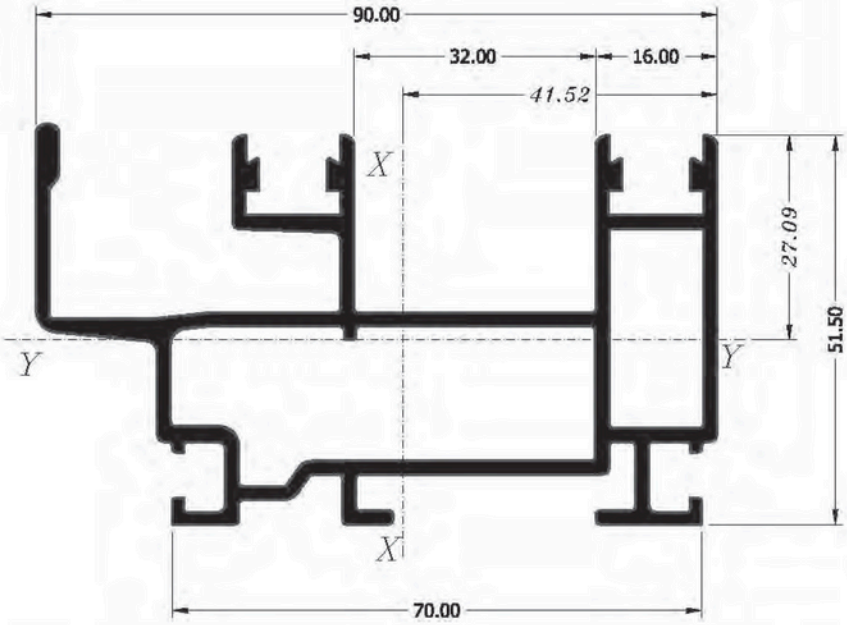
2 100 2020

1.527 Kg./ml.



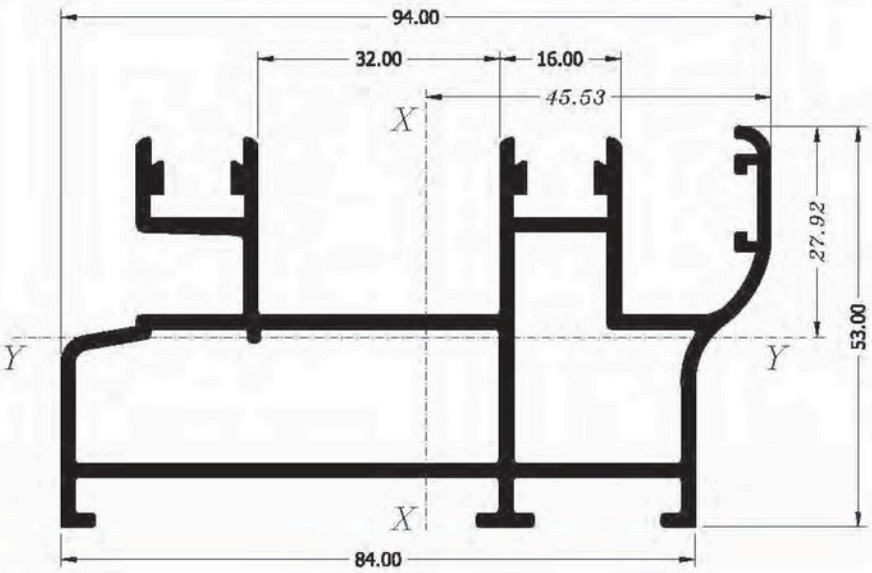
2 100 2120

1.883 Kg./ml.



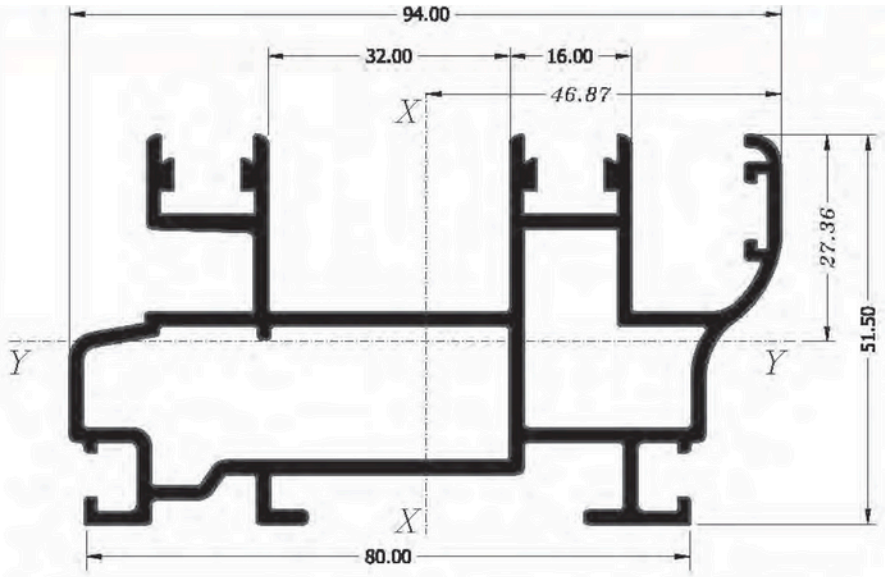
2 100 2300

1.646 Kg./ml.



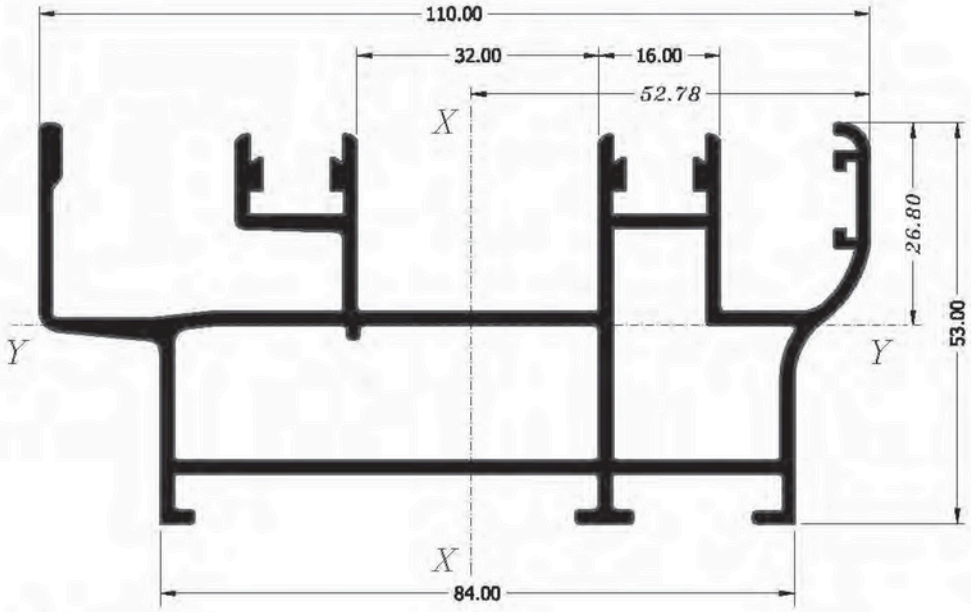
2 100 2320

1.772 Kg./ml.



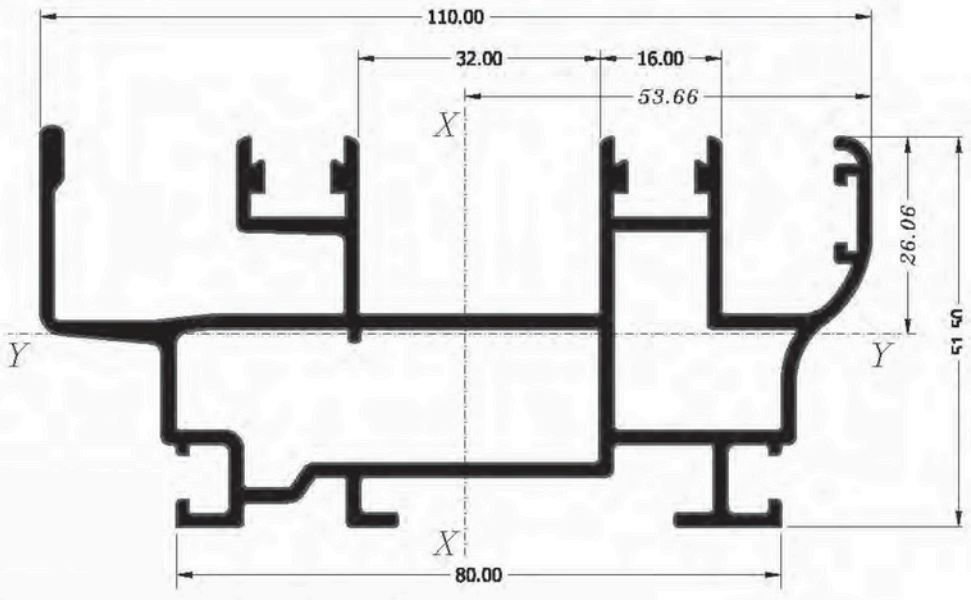
2 100 2400

1.939 Kg./ml.

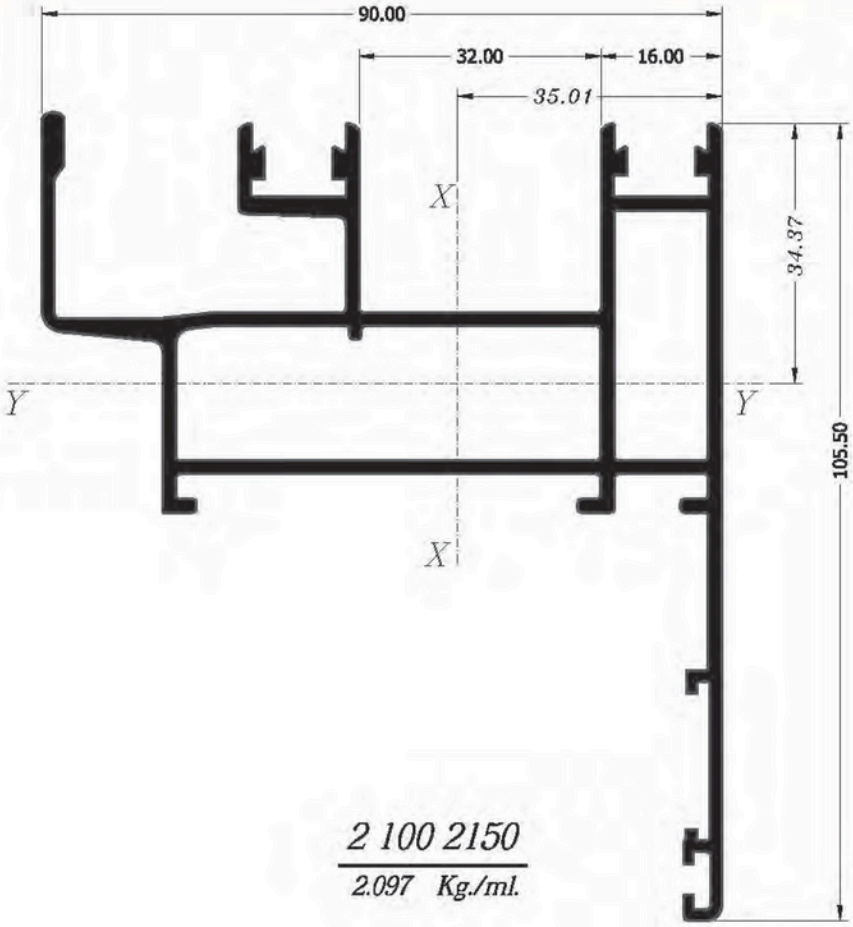


2 100 2420

2.006 Kg./ml.

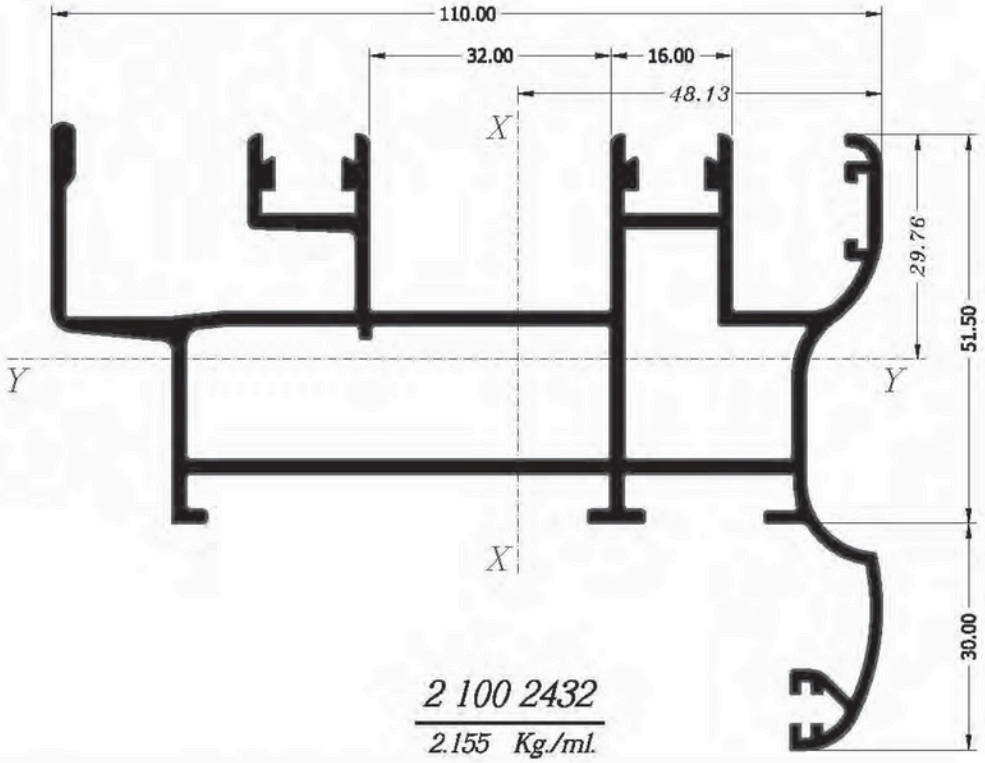


Profile No.	2 100 2320	2 100 2420
Profile Old No.	J 1038	J 1032



2 100 2150

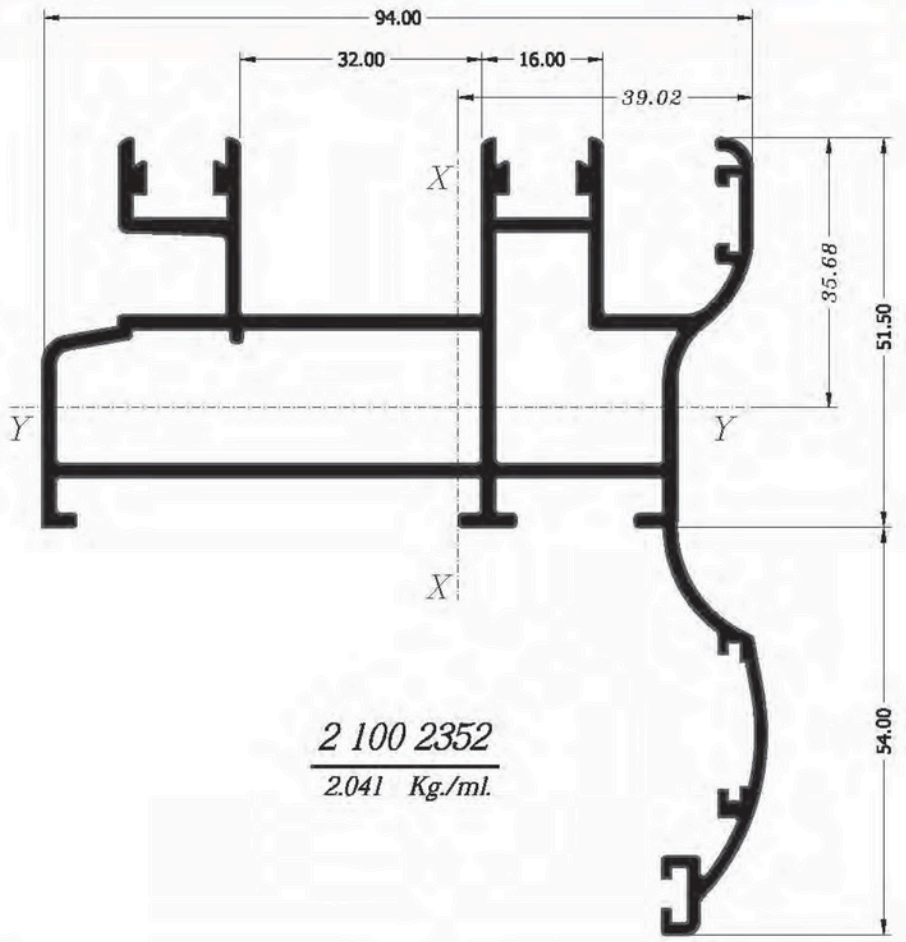
2.097 Kg./ml.



2 100 2432

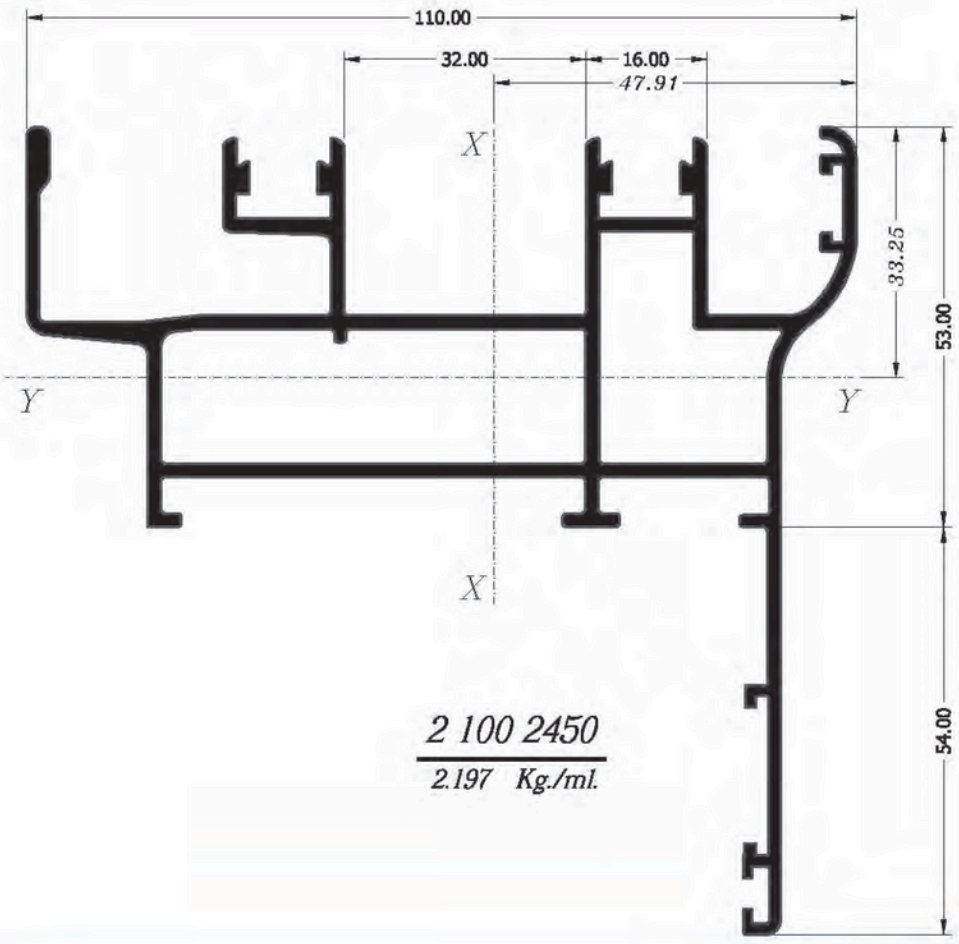
2.155 Kg./ml.

Profile No.	2 100 2352	2 100 2432
Profile Old No.	J 1037.2	J 1033.2



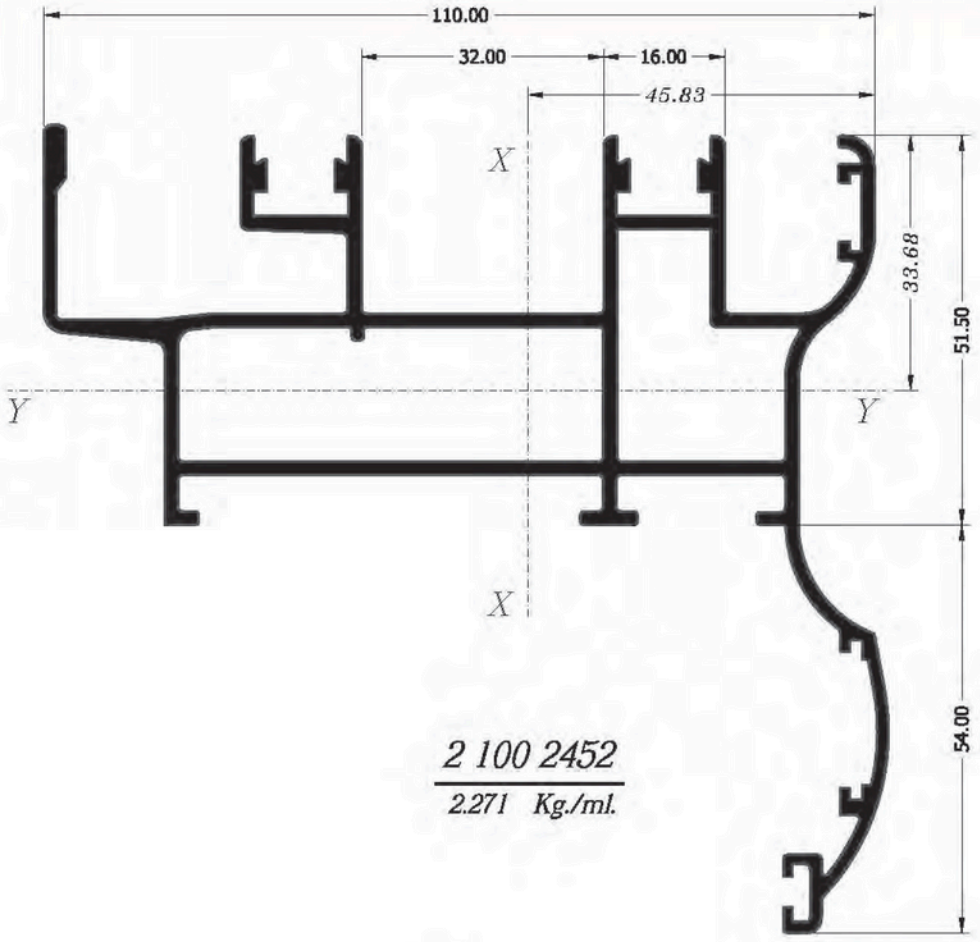
2 100 2352

2.041 Kg./ml.



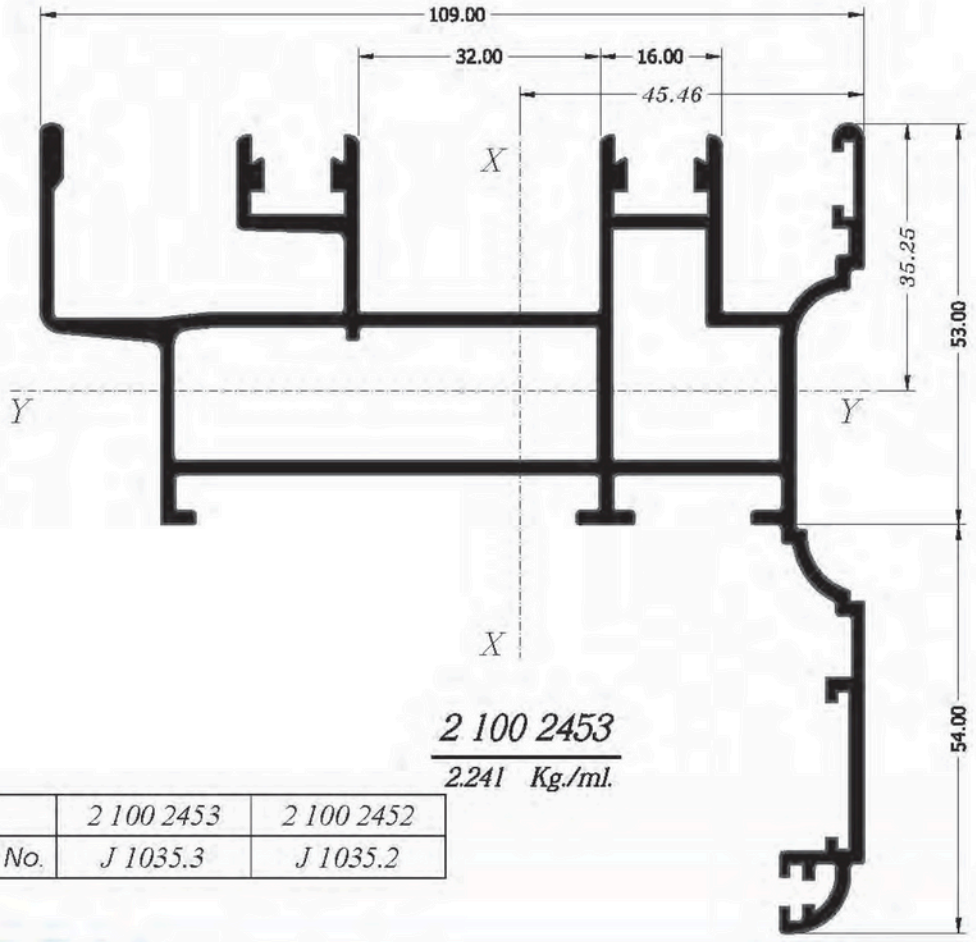
2 100 2450

2.197 Kg./ml.



2 100 2452

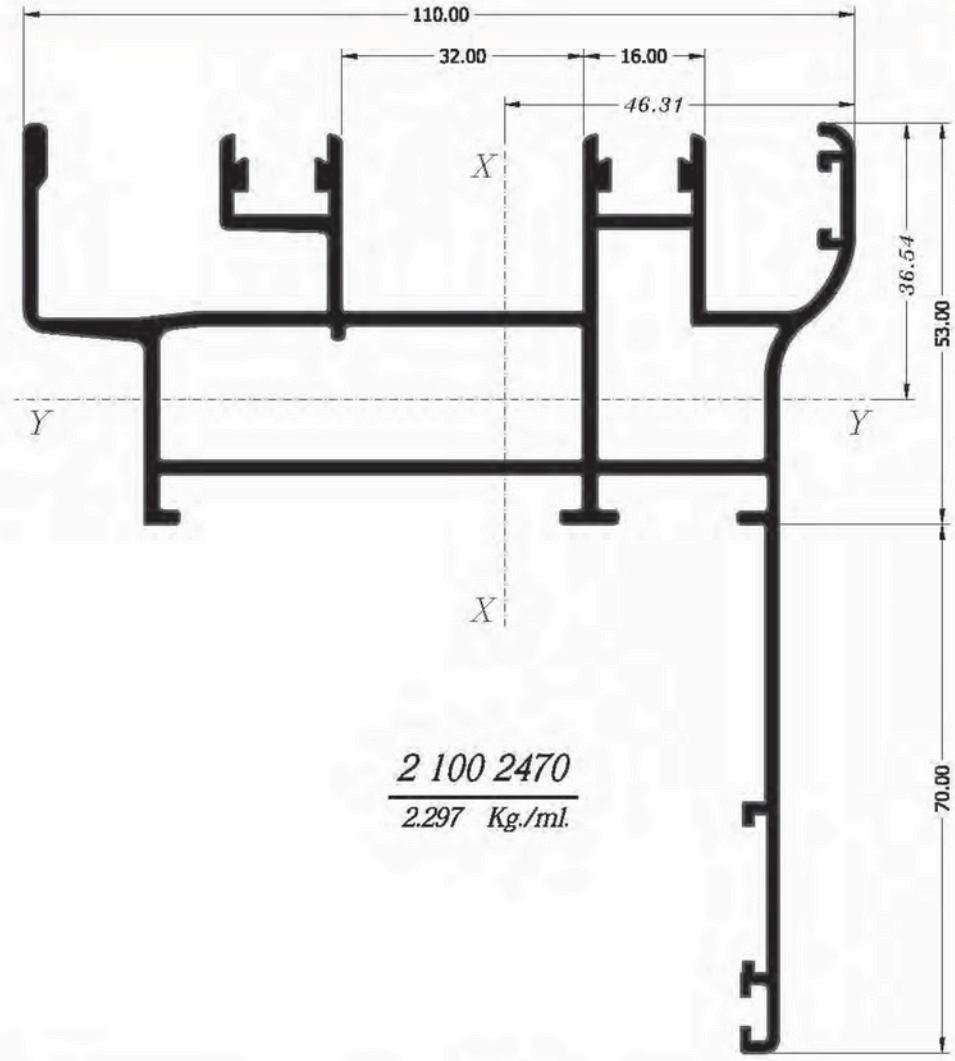
2.271 Kg./ml.



2 100 2453

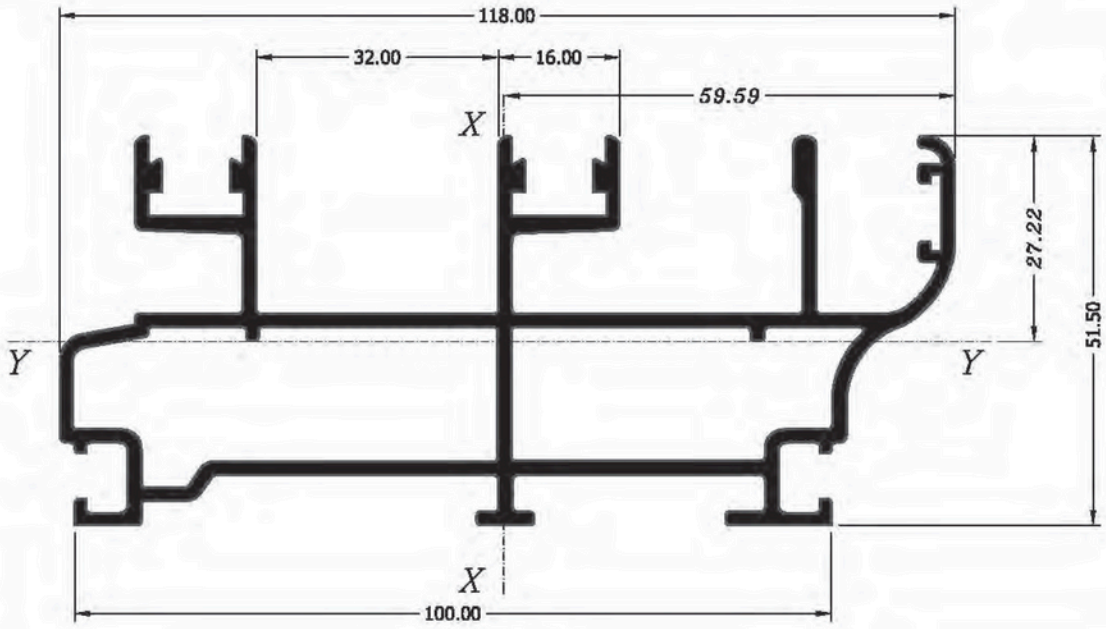
2.241 Kg./ml.

Profile No.	2 100 2453	2 100 2452
Profile Old No.	J 1035.3	J 1035.2



2 100 2470

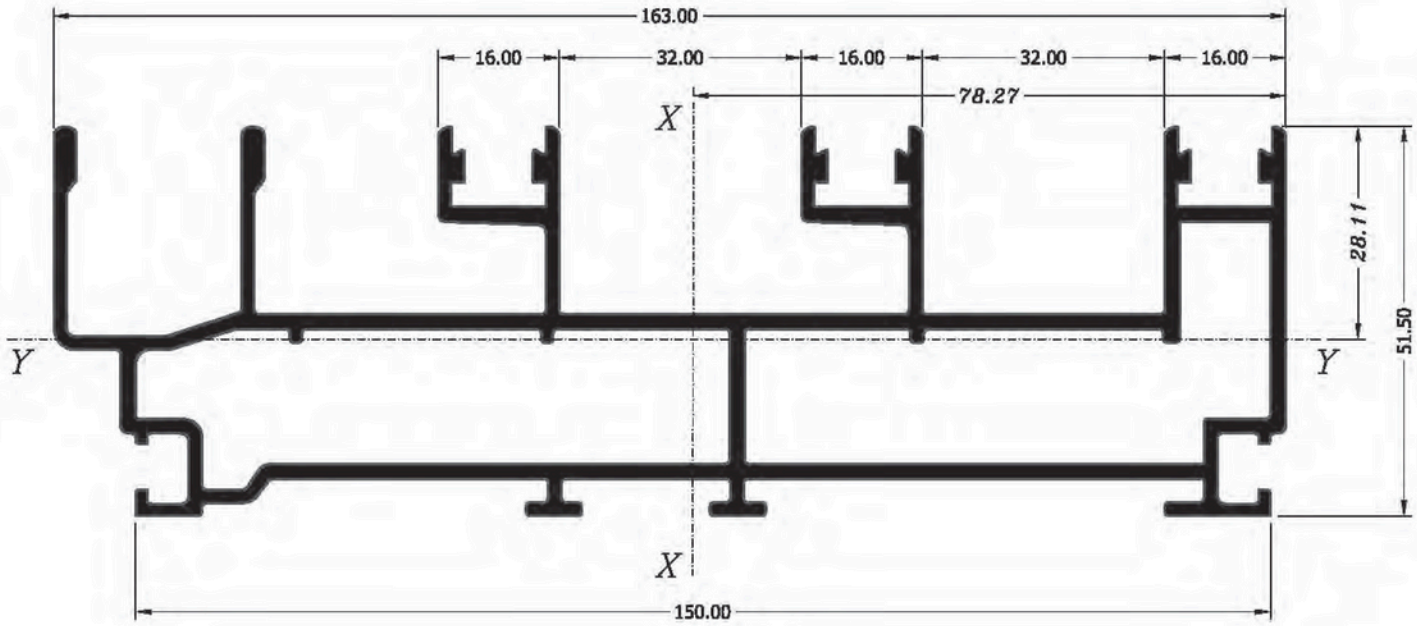
2.297 Kg./ml.



2 100 2520

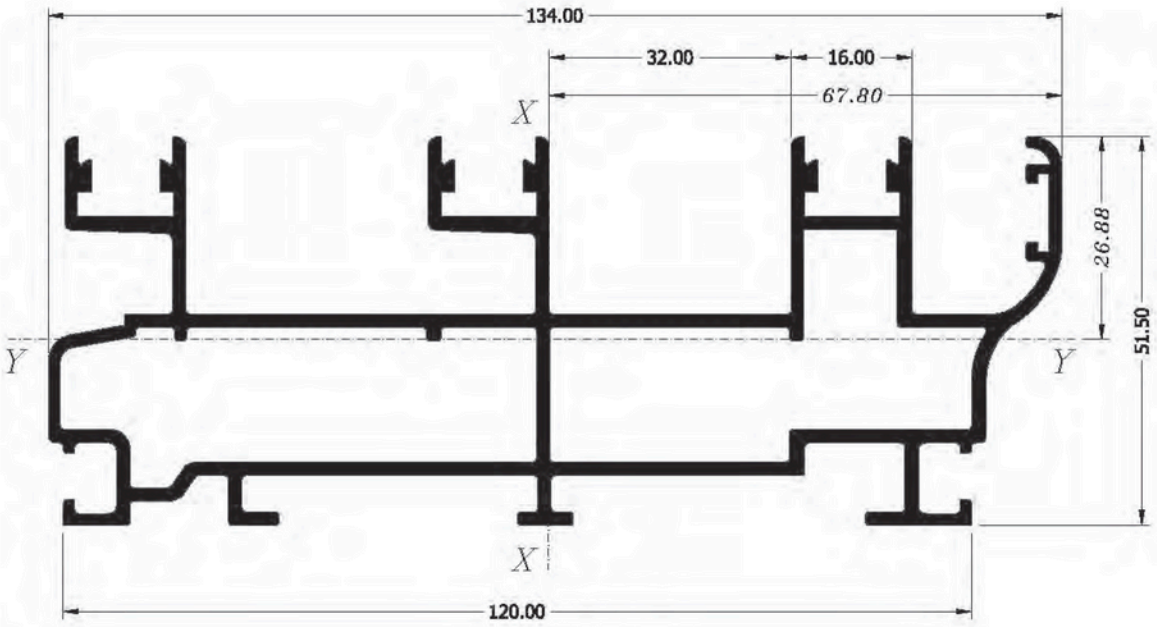
2.147 Kg./ml.

Profile No.	2 100 2520
Profile Old No.	J 1029



2 100 2720

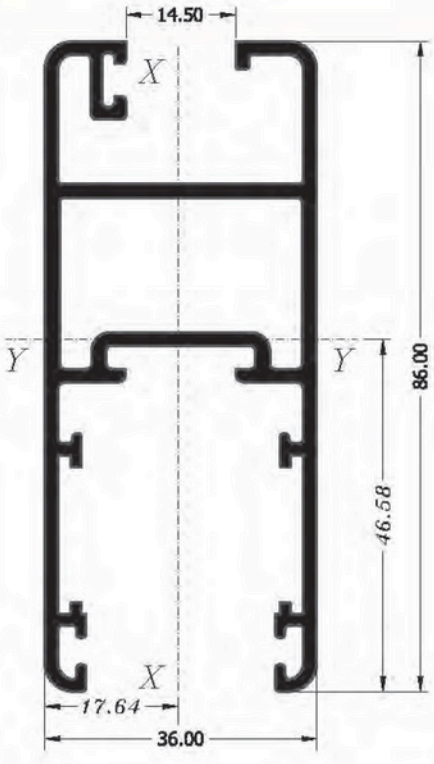
3.052 Kg./ml.



2 100 2820

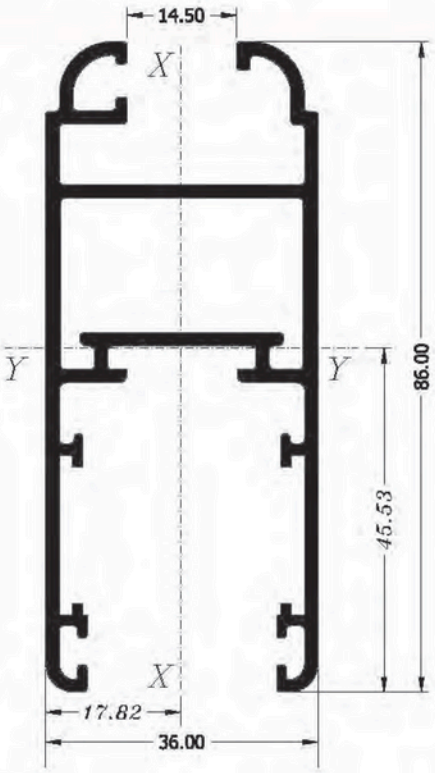
2.420 Kg./ml.

Profile No.	*2 100 2820*
Profile Old No.	*J 1039*



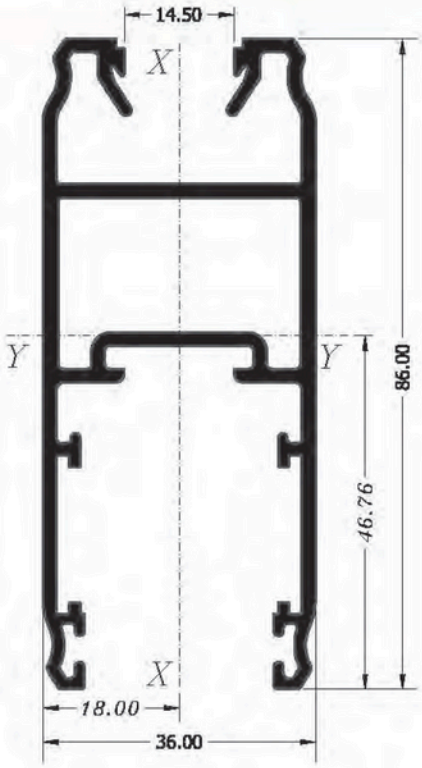
2 100 4110

1.366 Kg./ml.



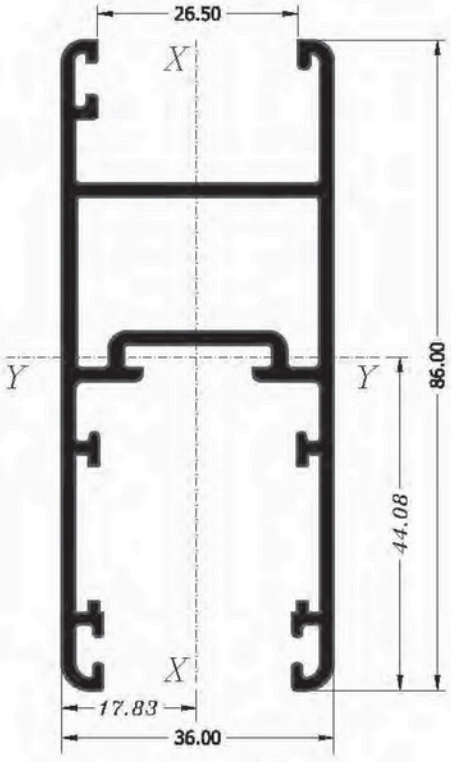
2 100 4113

1.339 Kg./ml.



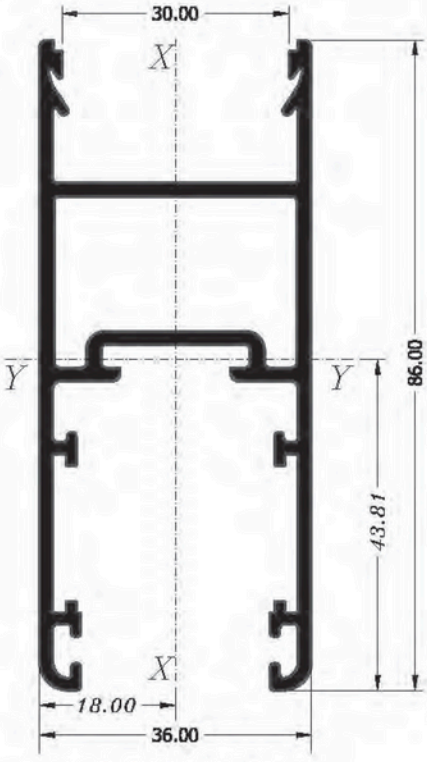
2 100 4214

1.346 Kg./ml.



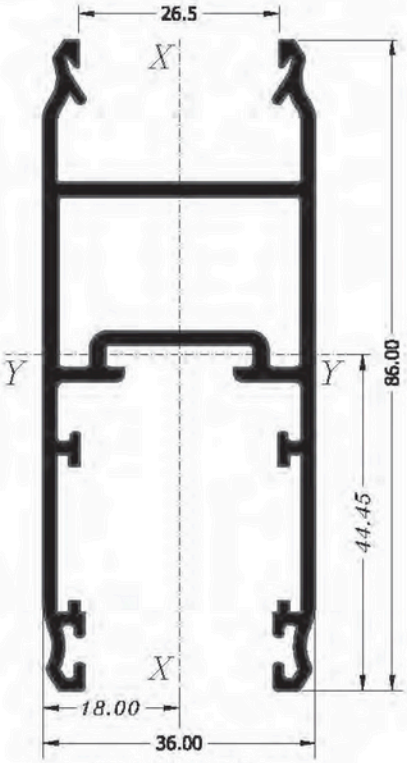
2 100 4120

1.280 Kg./ml.



2 100 4220

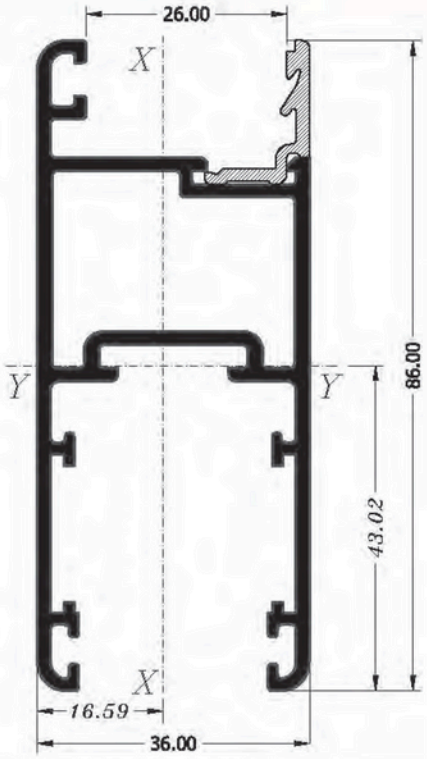
1.279 Kg./ml.



2 100 4224

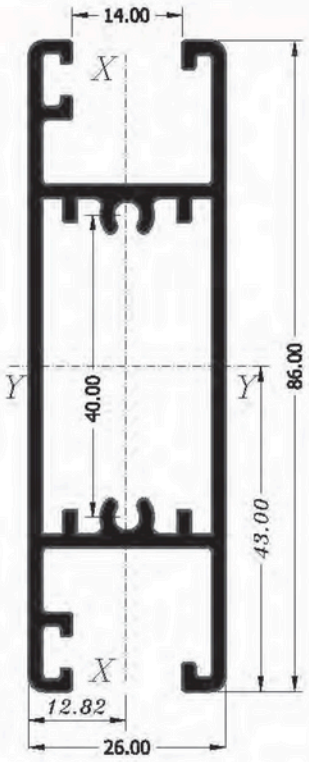
1.265 Kg./ml.

Profile No.	2 100 4110	2 100 4113	2 100 4120	2 100 4214	2 100 4220	2 100 4224
Profile Old No.	J 1040	J 1040.3	J 1042	J 1044	J 1043	J 1045



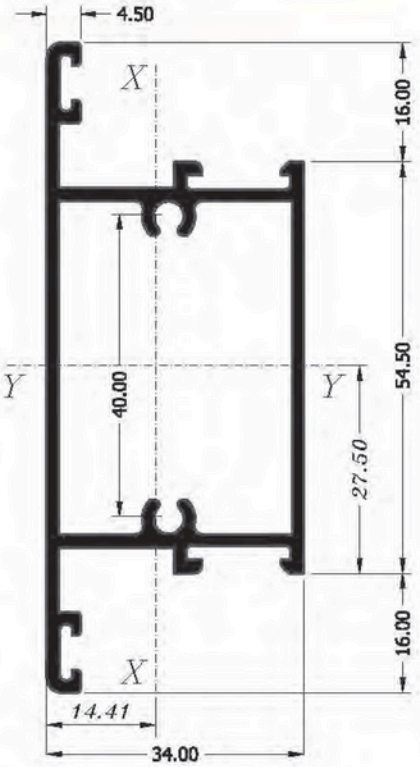
2 100 4141

1.253 Kg./ml.



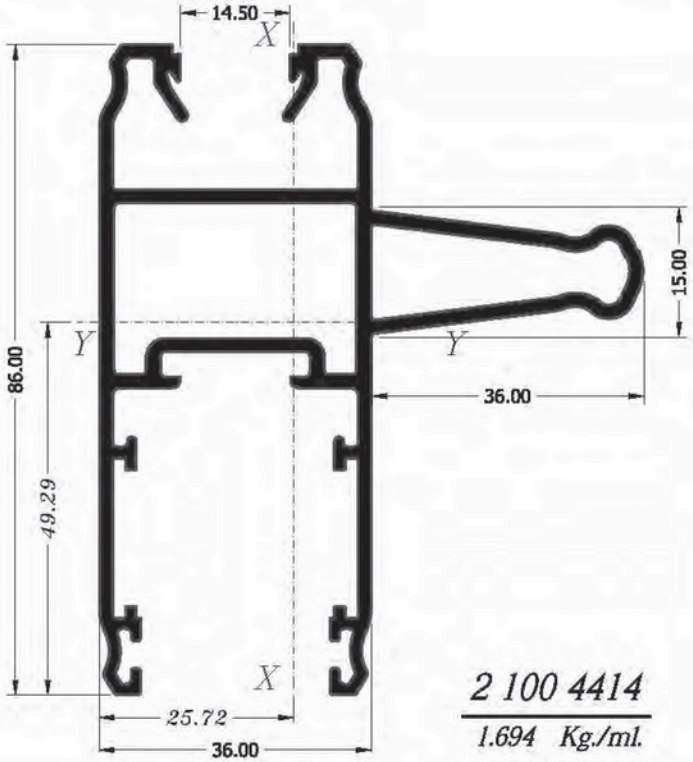
2 100 5110

1.199 Kg./ml.



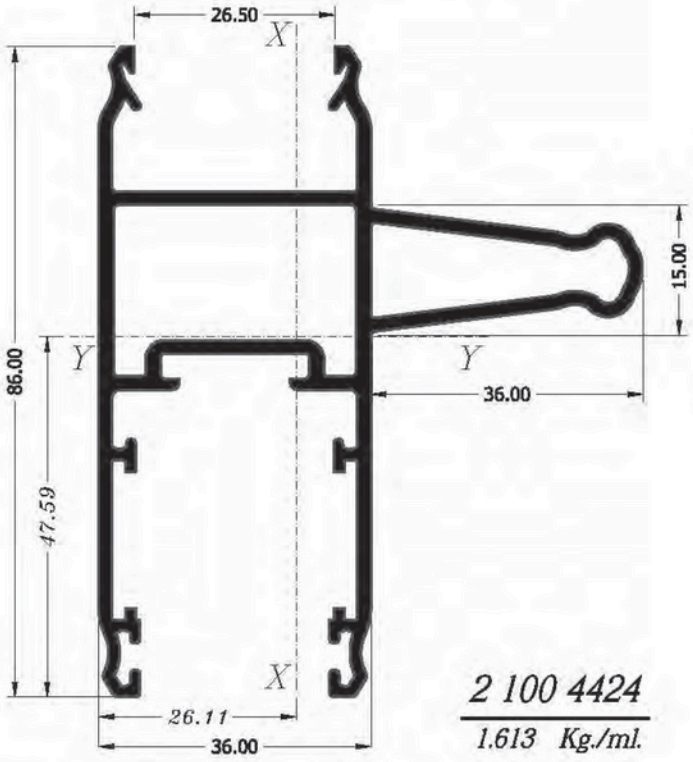
2 100 5140

1.069 Kg./ml.



2 100 4414

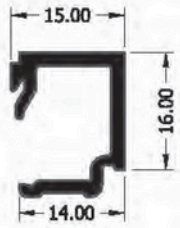
1.694 Kg./ml.



2 100 4424

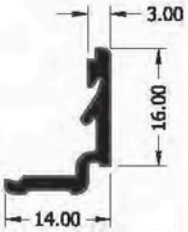
1.613 Kg./ml.

Profile No.	2 100 4141	2 100 4424	2 100 5140
Profile Old No.	J 1048	J 1045.1	J 1078



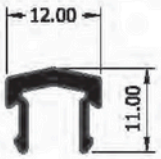
2 100 6120

0.205 Kg./ml.



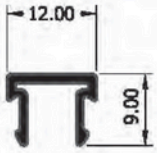
2 100 6180

0.149 Kg./ml.



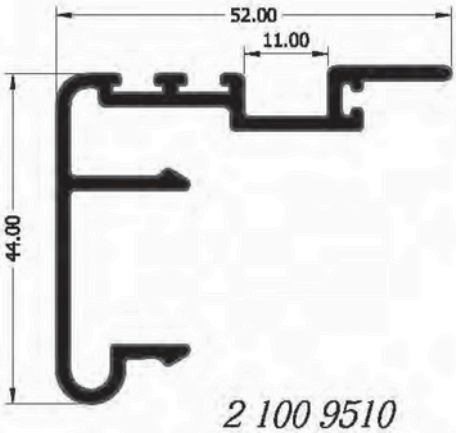
2 100 9210

0.140 Kg./ml.



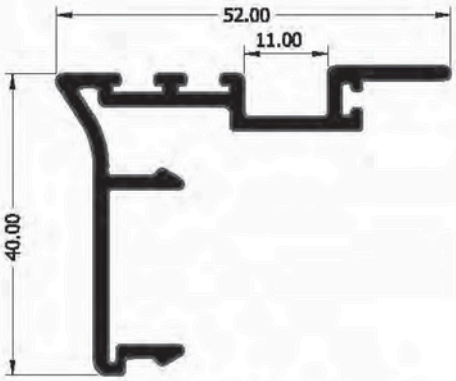
2 100 9230

0.092 Kg./ml.



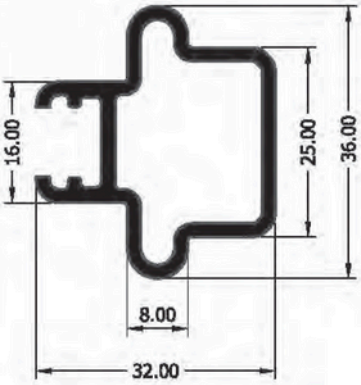
2 100 9510

0.654 Kg./ml.



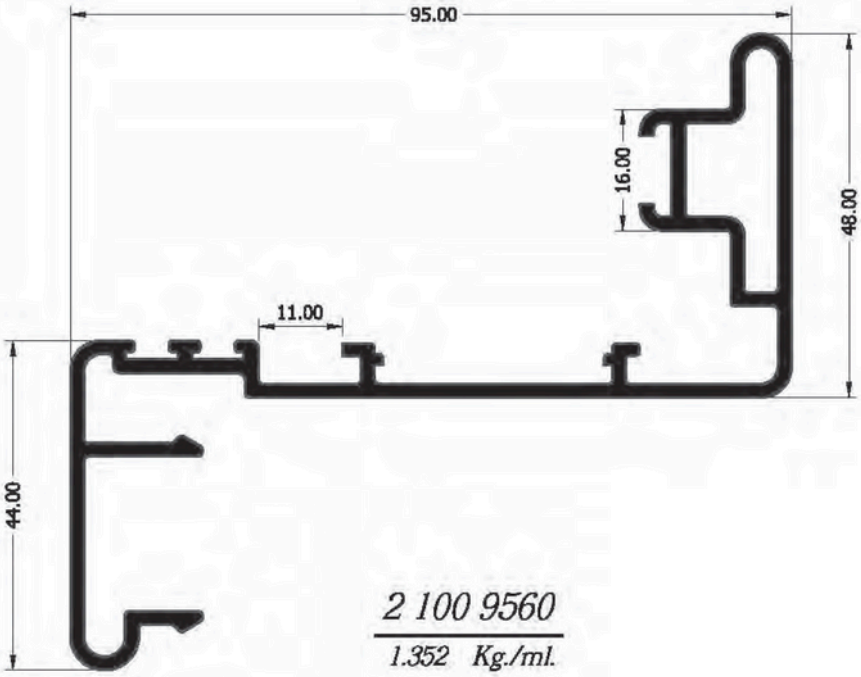
2 100 9514

0.584 Kg./ml.



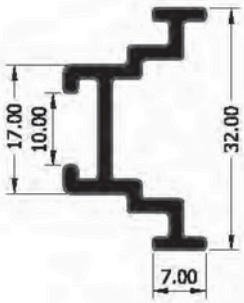
2 100 9610

0.572 Kg./ml.



2 100 9560

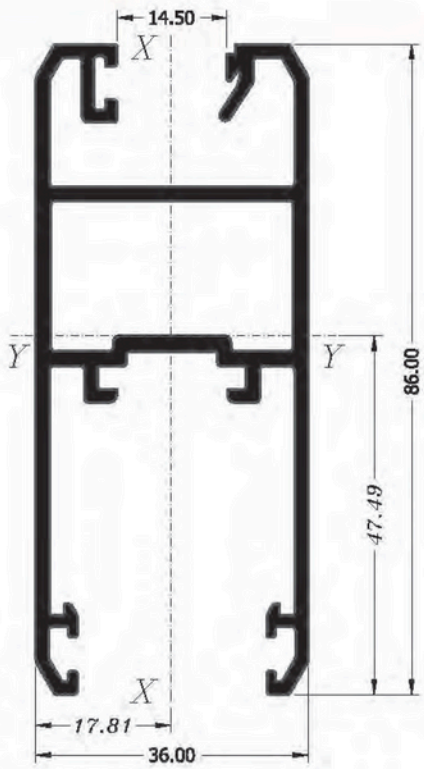
1.352 Kg./ml.



2 100 9910

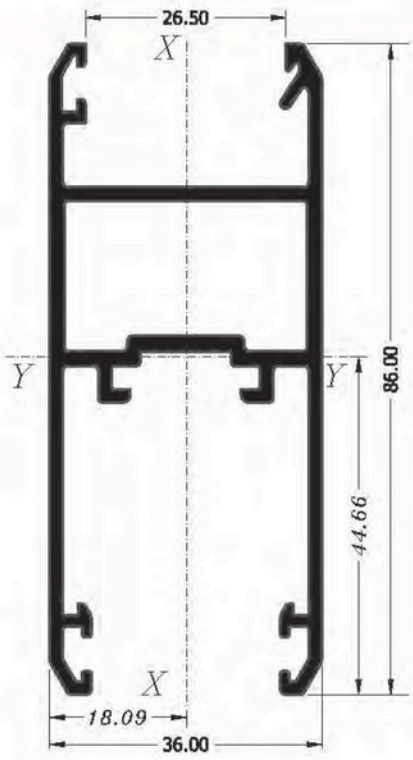
0.292 Kg./ml.

Profile No.	2 100 6120	2 100 6180	2 100 9210	2 100 9510	2 100 9514	2 100 9610	2 100 9910
Profile Old No.	J 1061	J 1062	J 1091	J 1050	J 1052	J 1095	J 1090



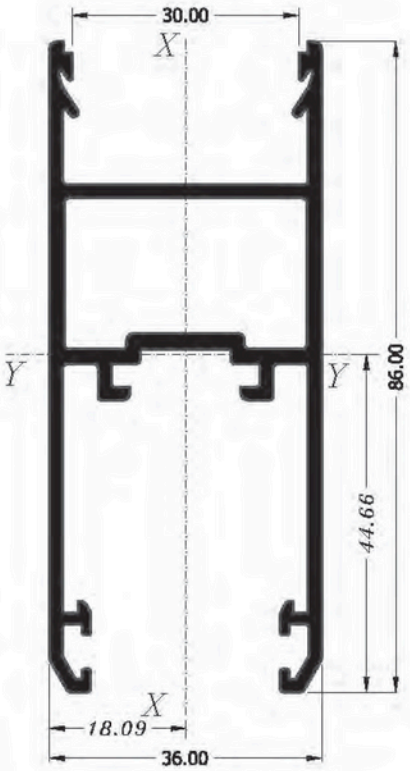
2 100 4518

1.435 Kg./ml.



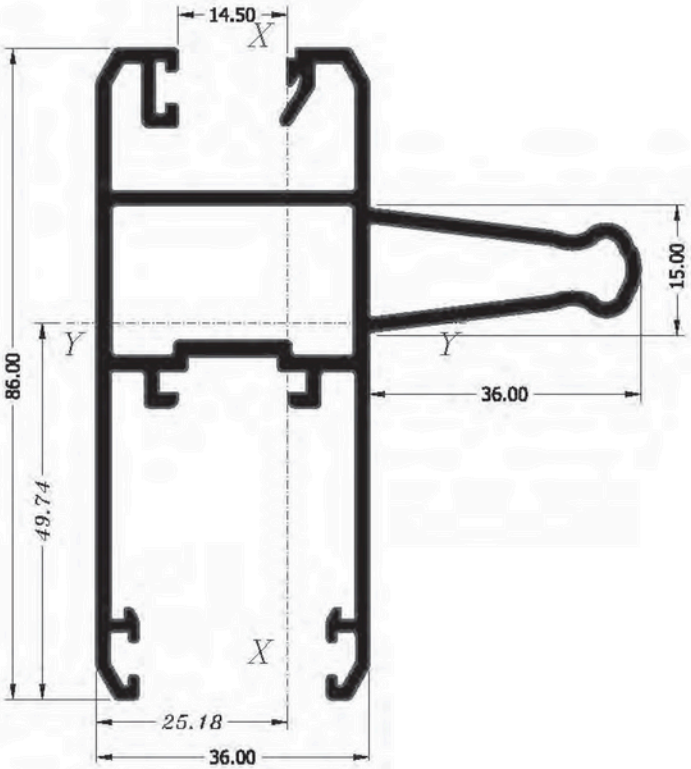
2 100 4528

1.334 Kg./ml.



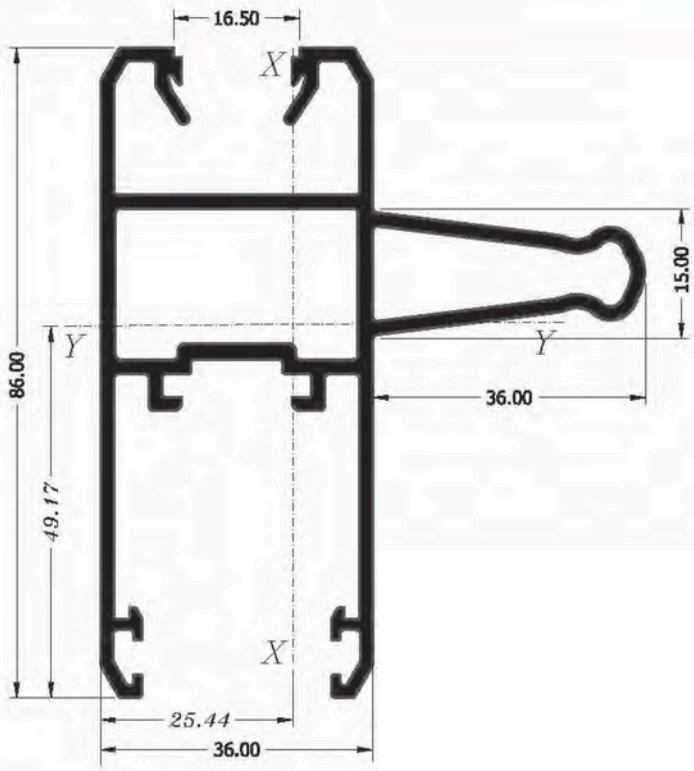
2 100 4630

1.336 Kg./ml.



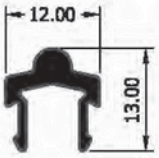
2 100 4718

1.789 Kg./ml.



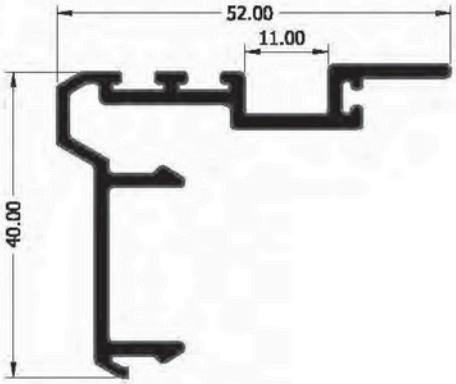
2 100 4818

1.760 Kg./ml.



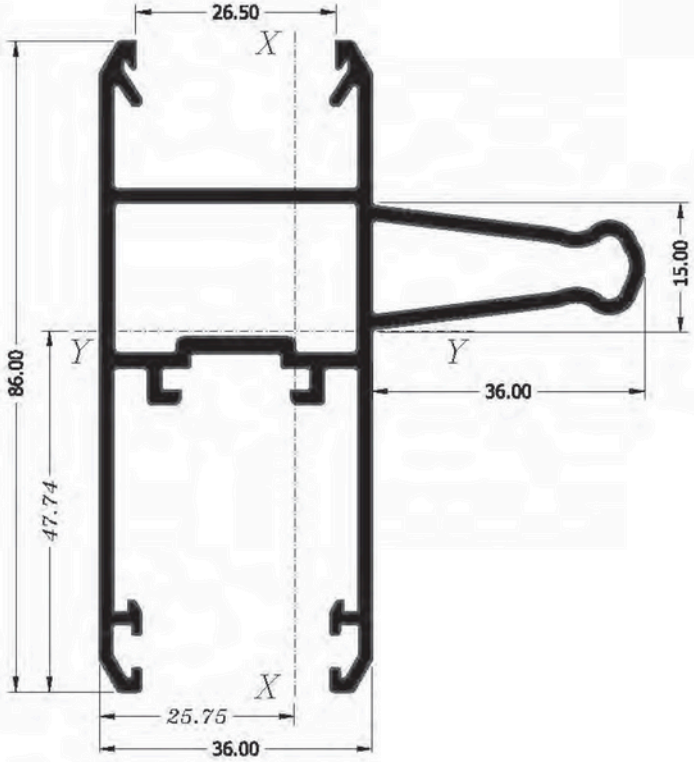
2 100 9220

0.169 Kg./ml.



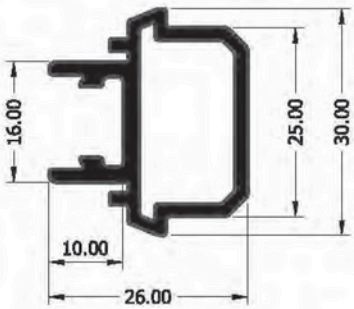
2 100 9518

0.594 Kg./ml.



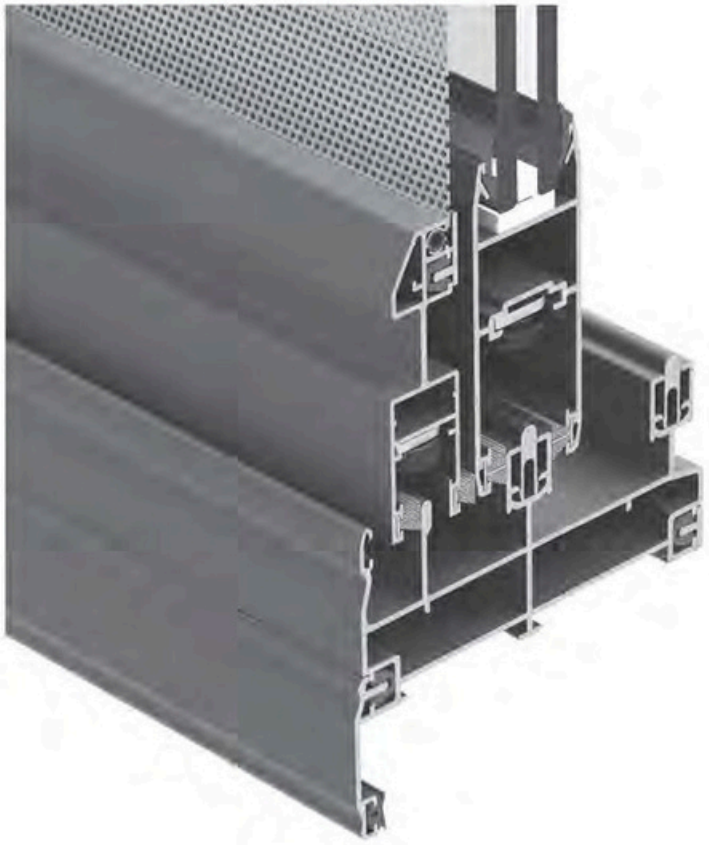
2 100 4828

1.689 Kg./ml.



2 100 9620

0.522 Kg./ml.



TEMPO 84 - SLIM

Sliding System

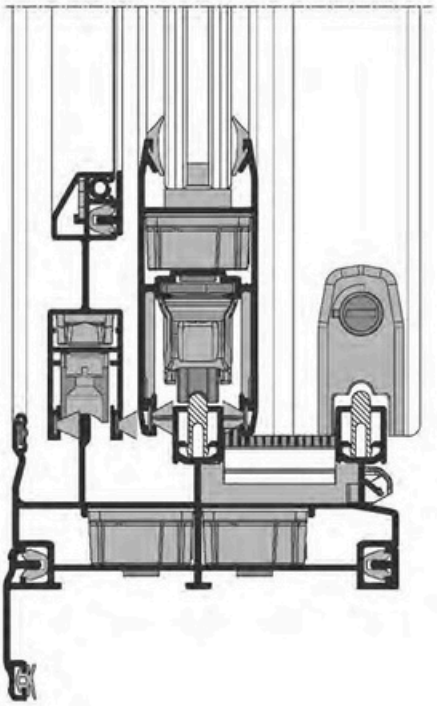
- Frame and sash are designed in soft-line modern look, suitable for modern buildings, renovation projects, residential and service buildings.
- Available in the double or triple track design, structures with up to six leaves.
- Low sill rail is available for patio doors and balconies.
- Aluminium or stainless-steel clip-on rails to simplify maintenance.
- Integrated fly screen sash, available inside or outside.

Technical Characteristics

Frame	Depth	76 mm. to 169 mm.
	Height	50 mm. to 102 mm.
Sash	Depth	32 mm.
	Height	80 mm.
Max Glass Thickness	Up to 24 mm.	
Max Sash Weight	Up to 200 kg.	
Sealing Type	Perimetrical, with two rows of high-density brushes	

Complies with European norm hEN 1435-1

Air Permeability	(Class 3) up to 600 pa.
Water Tightness	(Class 9A) up to 600 pa.
Resistance to wind load	(Class C4) up to 1600 pa.



EUROPEAN CERTIFYING ORGANIZATION S.P.A.
NOTIFIED TESTING LABORATORY N. 0714
FOR REGULATION (EU) No 305/2011

CLASSIFICATION ASSESSMENT N. 0714-CPR-1301 DATED NOVEMBER, 30 2015

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, that replaces Council Directive 89/106/EEC and lays down conditions for the placing or making available on the market of construction products by establishing harmonised rules on how to express their performance in relation to their essential characteristics and taking account of the horizontal legal framework for the marketing of products in the internal market, established by Regulation (EC) No. 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products, as well as by Decision No. 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products,
and in compliance with hEN 14351-1:2006 – A1:2010 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics, which is currently in force,
European Certifying Organization S.p.A., notified laboratory NB 0714, carried out the following:

type-testing

for the determination of the essential characteristics

Air Permeability – Water tightness – Resistance to Wind Load

on the below mentioned external pedestrian doorset without resistance to fire and/or smoke leakage characteristics
In compliance with EN 12207:1999, EN 12208:1999, EN 12210:1999 – Classification,
EN 1026:2000, EN 1027:2000, EN 12211:2000 – Tests and calculations
System of assessment and verification of constancy of performance 3

The specimen, as provided by the Manufacturer, was identified as follows:

DESCRIPTION OF THE PRODUCT

Type:	Sliding window, two sashes.
Model:	TEMPO 84 Width= 1,860 mm, Height = 1,460 mm, Thickness = 32 mm
Fabrication number:	-
Date of fabrication:	2015

Taking into account the documentation submitted by the Manufacturer and on the basis of the results of the type-testing carried out, as described in the laboratory report ECO CP0025/4, dated November 26, 2015, in accordance with Annex ZA of hEN 14351-1:2006 – A1:2010 and with the EN 12207:1999, EN 12208:1999 and EN 12210:1999 classification, to the specimen, as previously identified.

THE FOLLOWING CLASSIFICATION IS AWARDED

AIR PERMEABILITY:	**CLASS 3**
WATERTIGHTNESS:	**CLASS 9A**
RESISTANCE TO WIND LOAD:	**CLASS C4**

The results refer only to the specimen that has been provided by the Manufacturer and submitted to type-testing listed above.
This classification assessment consists of 1 page and its reproduction is permitted in full only.

Faenza, November 30, 2015

The undersigned ECO Certificazioni S.p.A. Scheme Manager CPR
Eng. Gianluca Campolesi

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Tel. +39 0546 624911 • Fax +39 0546 624922
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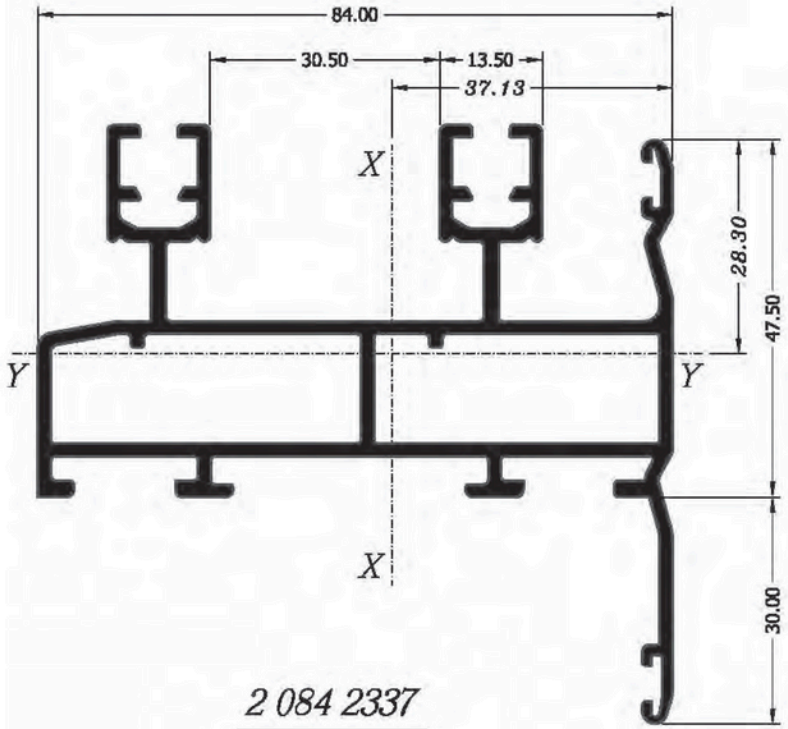
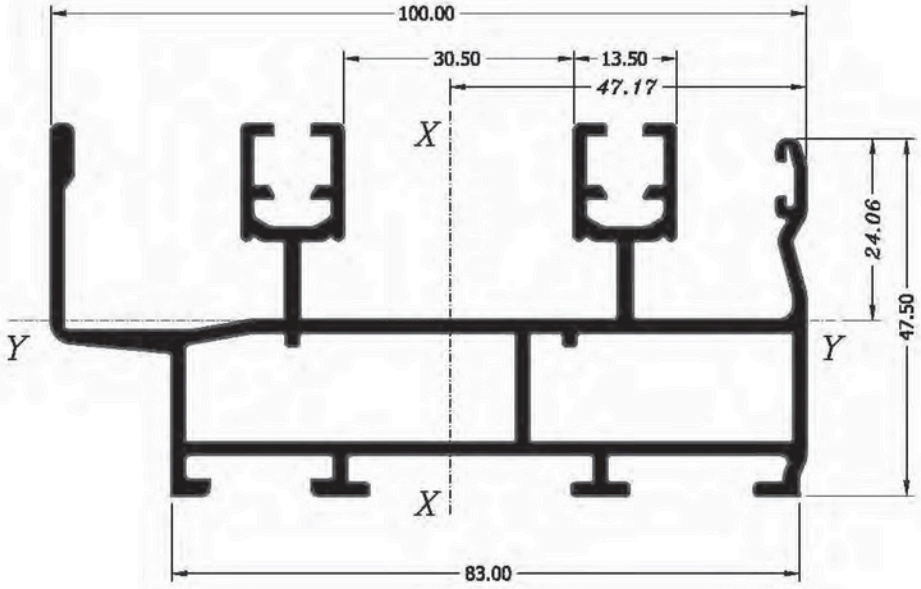


2 084 2337

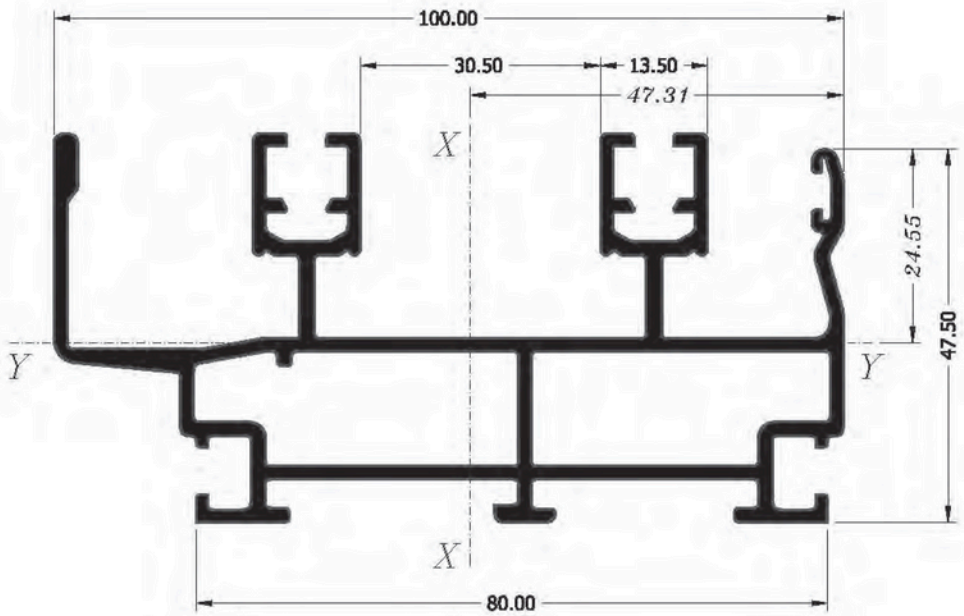
1.779 Kg./ml.



2 084 2407

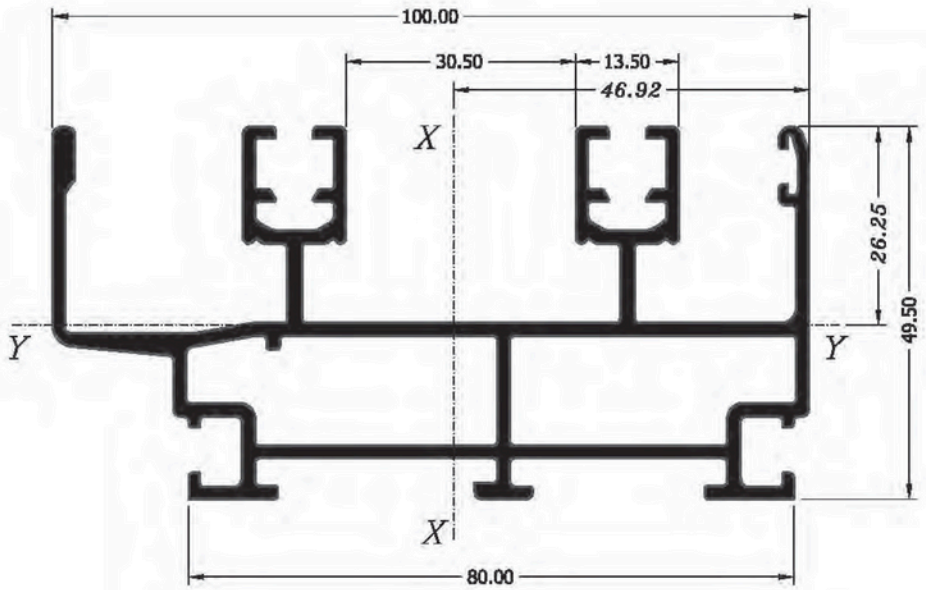
1.892 Kg./ml.

Profile No.	2 084 2337
Profile Old No.	T 8432.7



2 084 2420

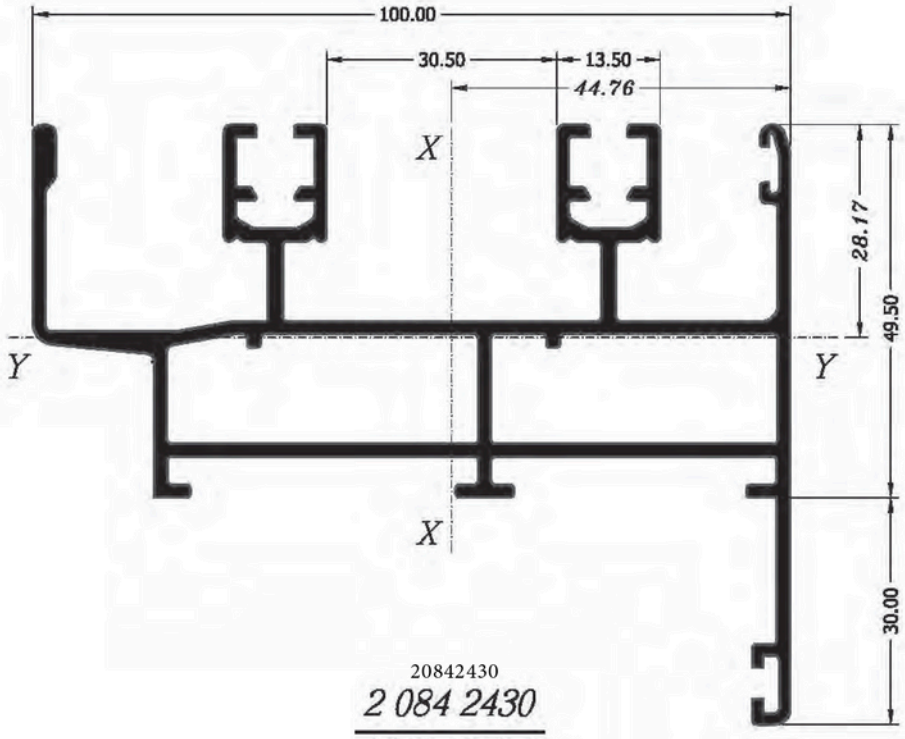
1.931 Kg./ml.



2 084 2428

1.938 Kg./ml.

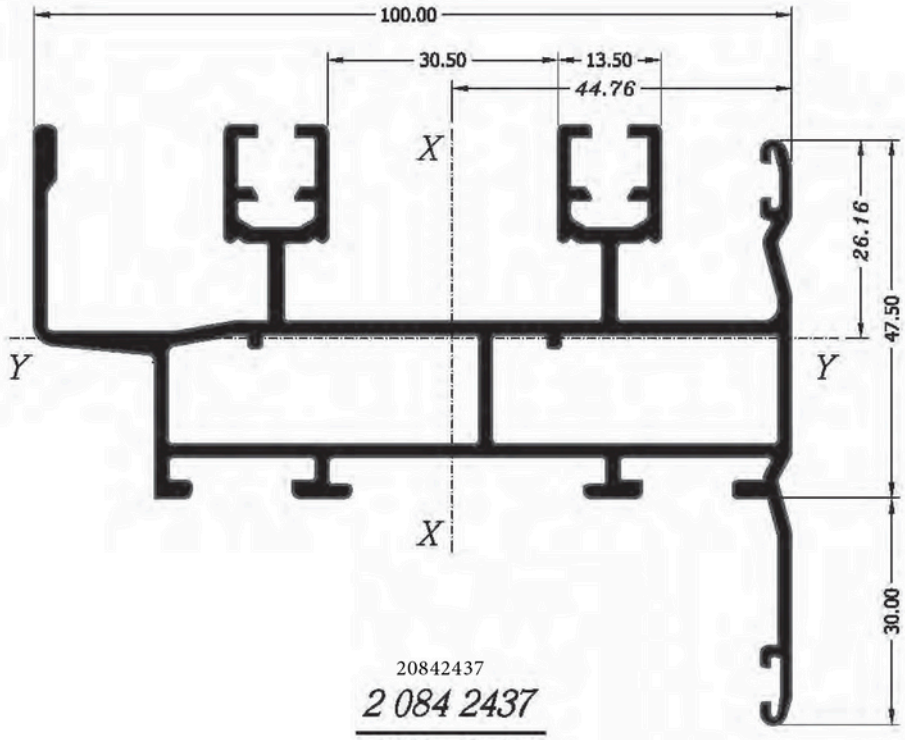
Profile No.	2 084 2420
Profile Old No.	T 8438



20842430

2 084 2430

1.993 Kg./ml.

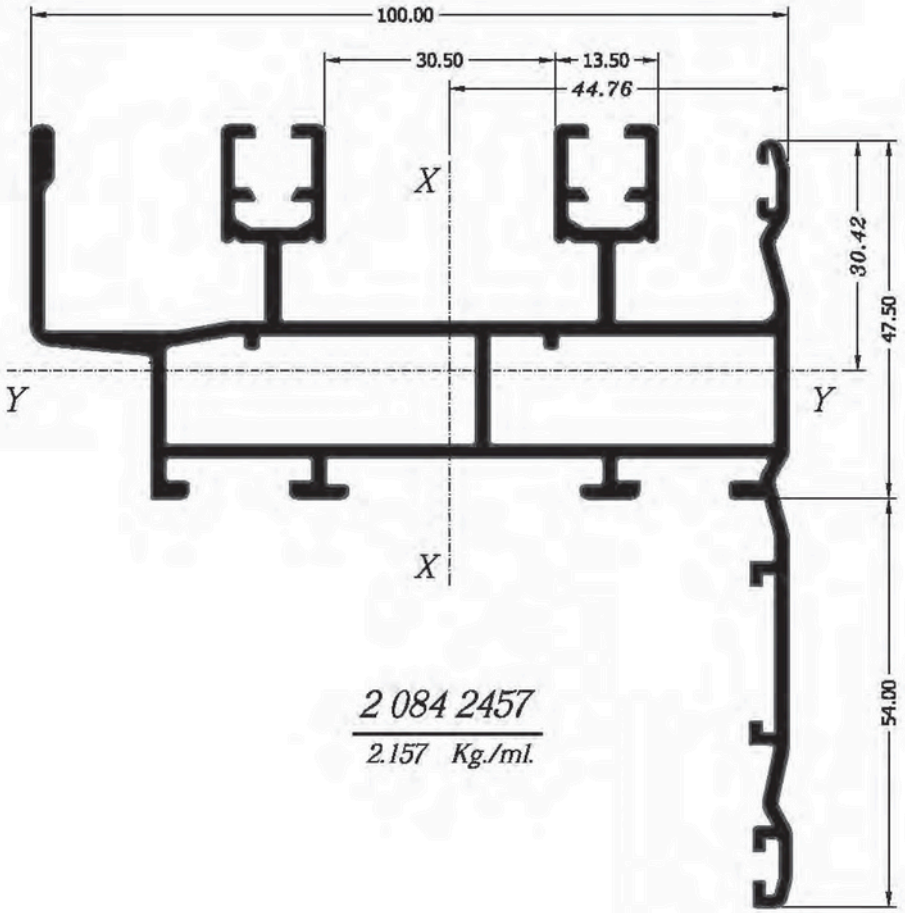


20842437

2 084 2437

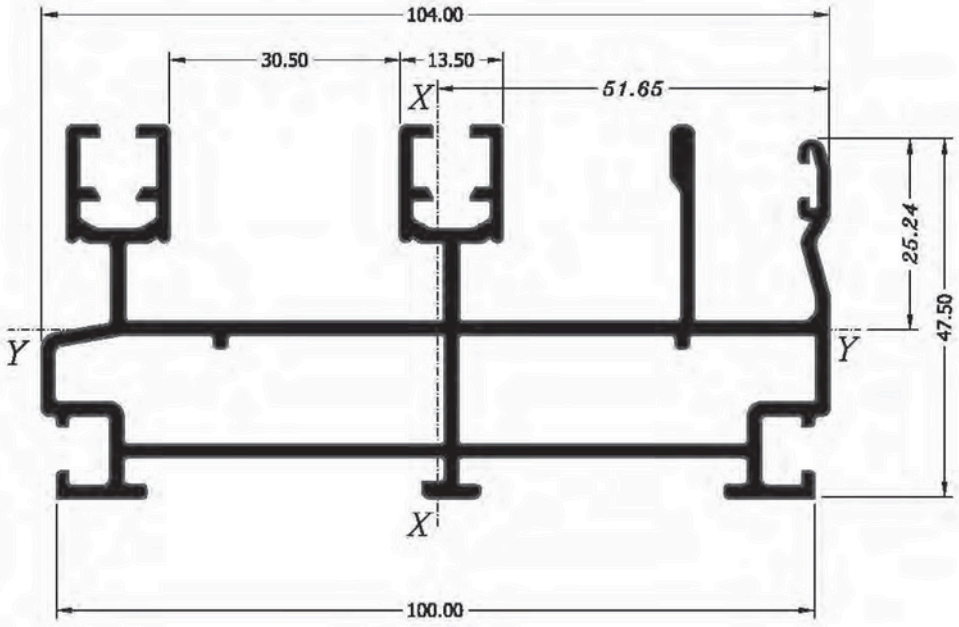
2.022 Kg./ml.

Profile No.	2 084 2437
Profile Old No.	T 8436.7



2 084 2457

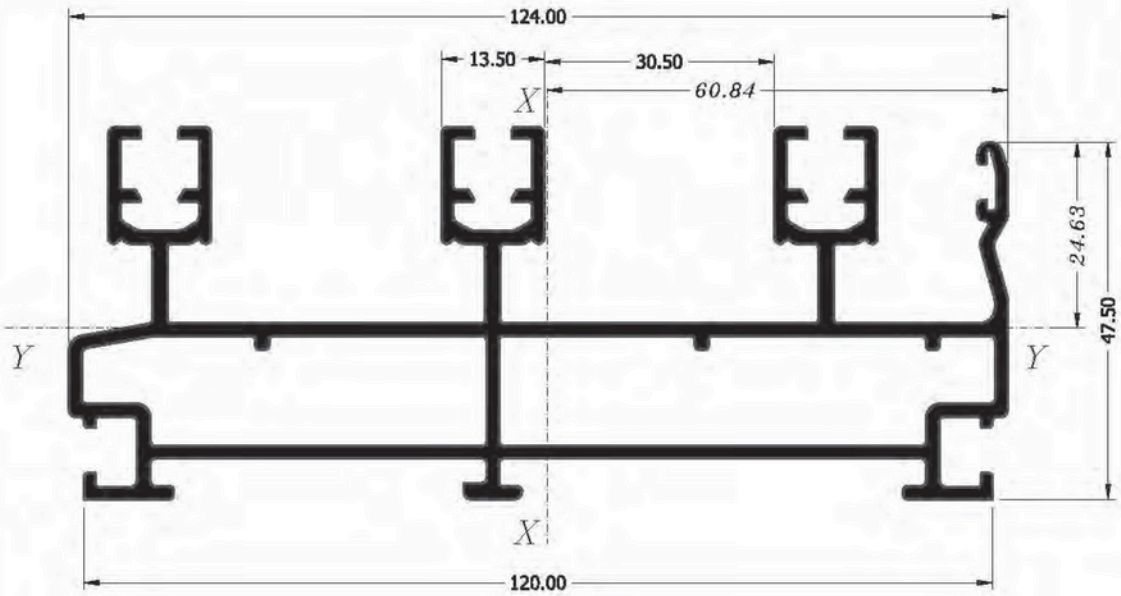
2.157 Kg./ml.



2 084 2520

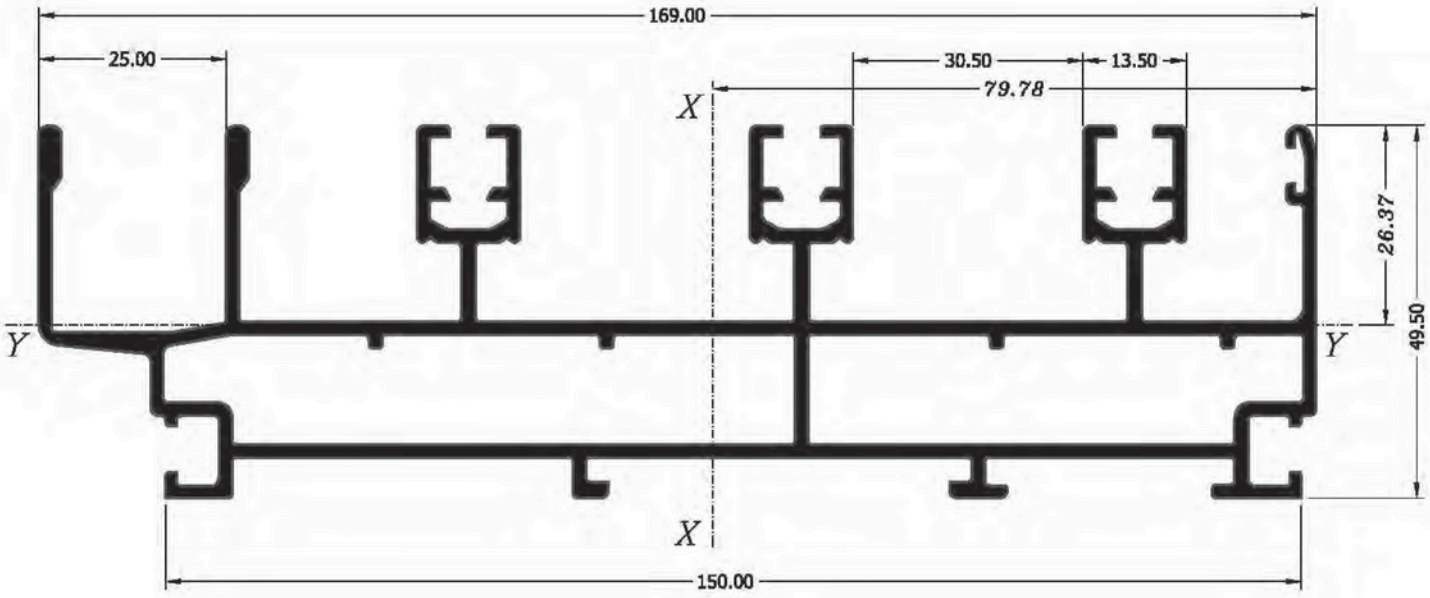
1.978 Kg./ml.

Profile No.	2 084 2457
Profile Old No.	T 8435.7



2 084 2820

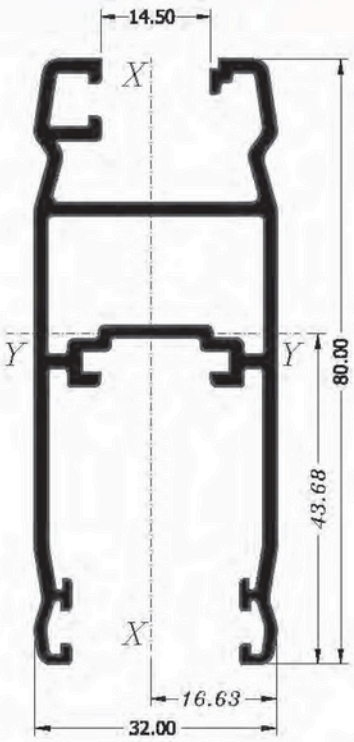
2.283 Kg./ml.



2 084 2928

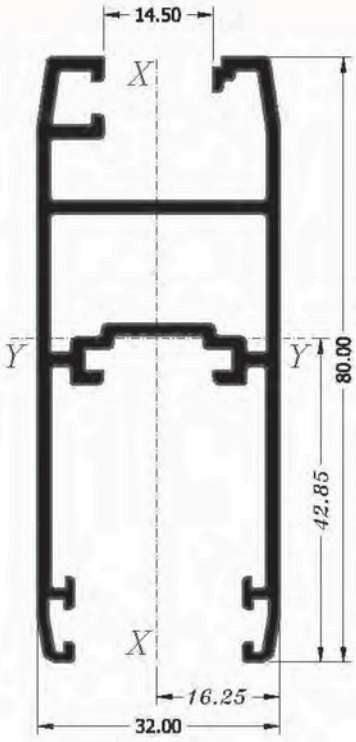
2.935 Kg./ml.

Profile No.	2 084 2820
Profile Old No.	T 8439



2 084 4117

1.115 Kg./ml.



2 084 4118

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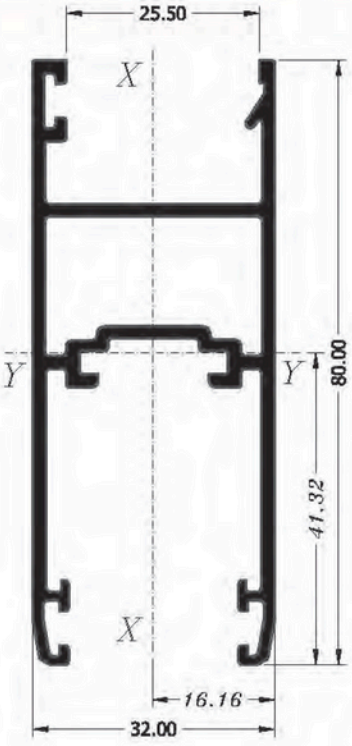
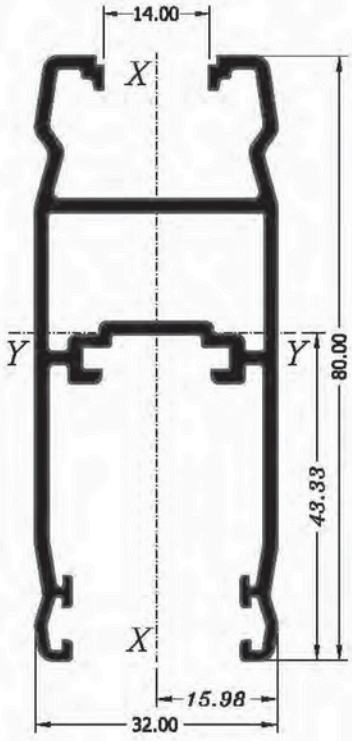


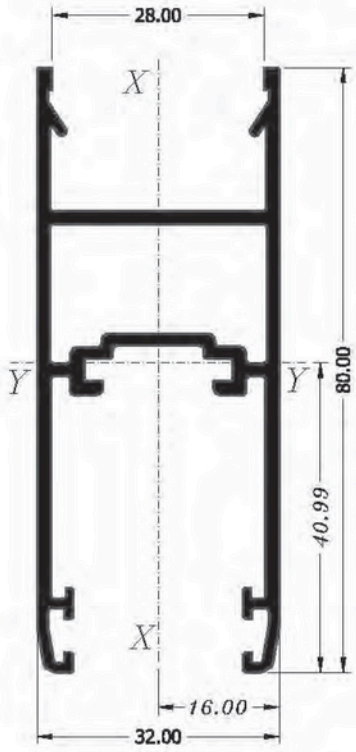
2 084 4130

1.073 Kg./ml.



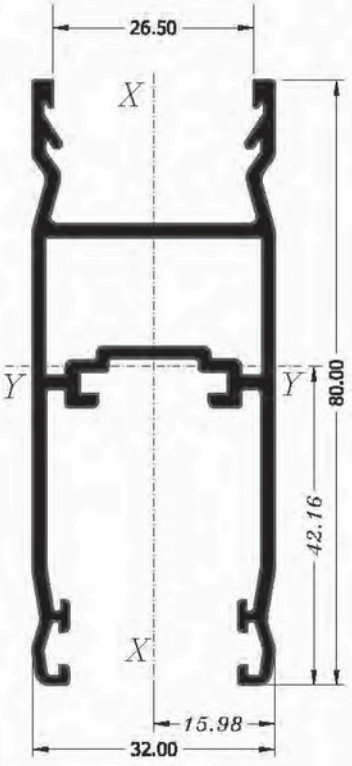
2 084 4217

1.091 Kg./ml.



2 084 4220

1.060 Kg./ml.



2 084 4227

1.066 Kg./ml.

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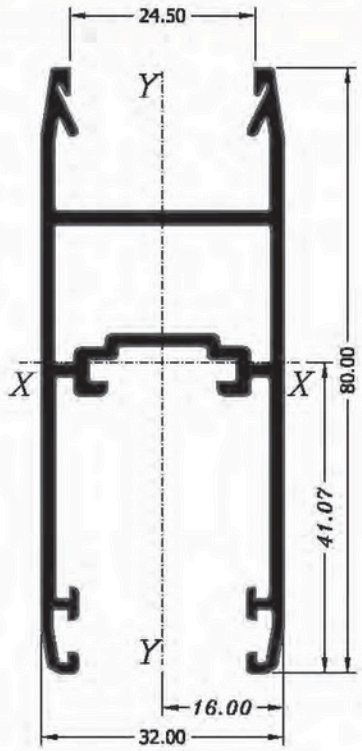

2 084 4228

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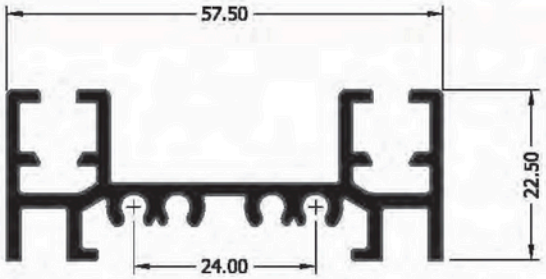

2 084 9100

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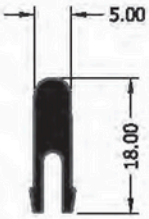
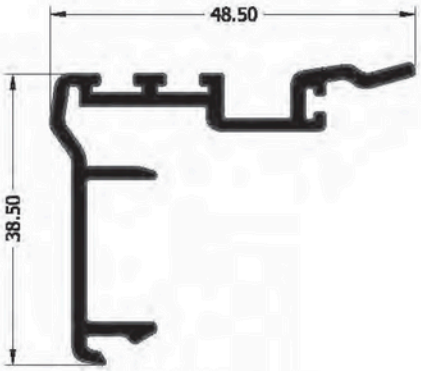


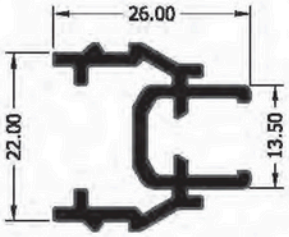
2 084 9210

0.165 Kg./ml.



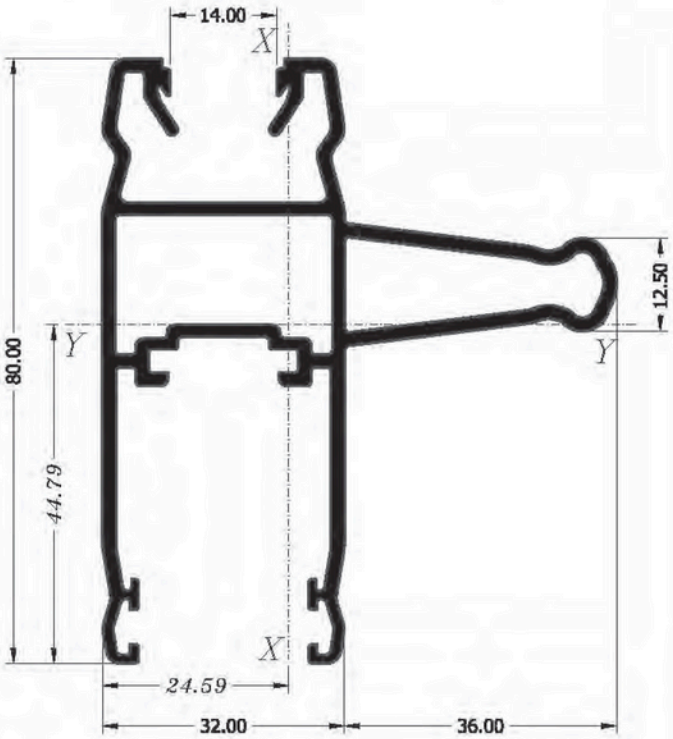
2 084 9517

0.502 Kg./ml.



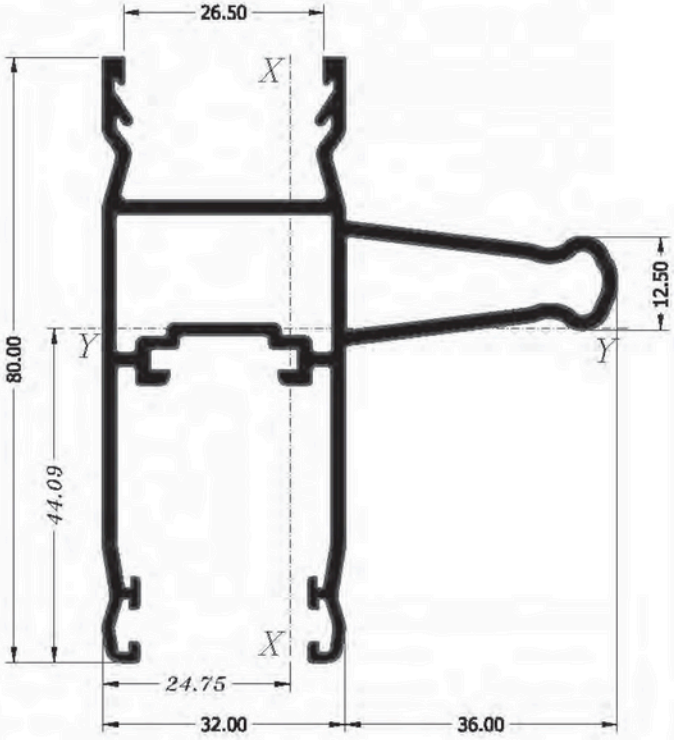
2 084 9610

0.386 Kg./ml.



2 084 4417

1.485 Kg./ml.



2 084 4427

1.437 Kg./ml.

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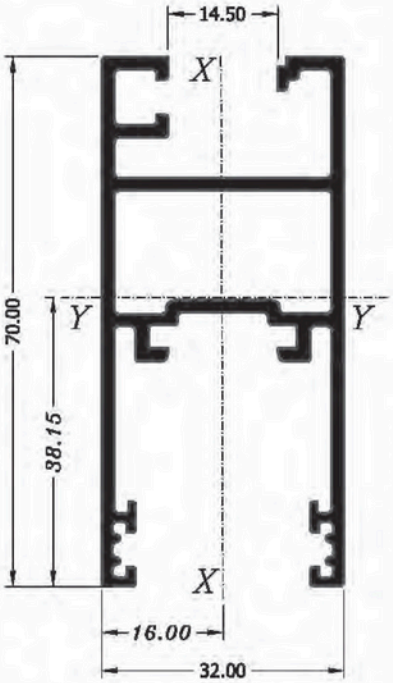
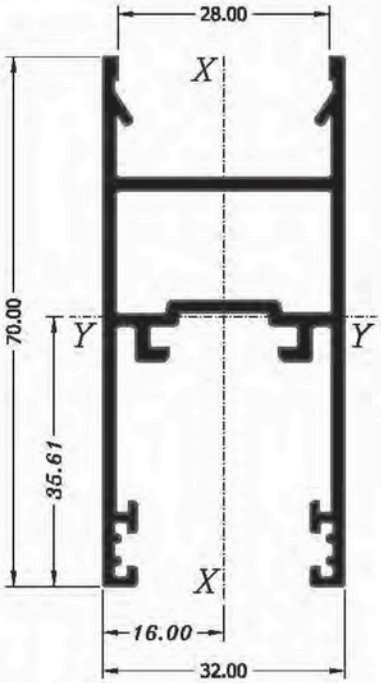
Profile Old No.	T 8480	T 8491	T 8450	T 8495



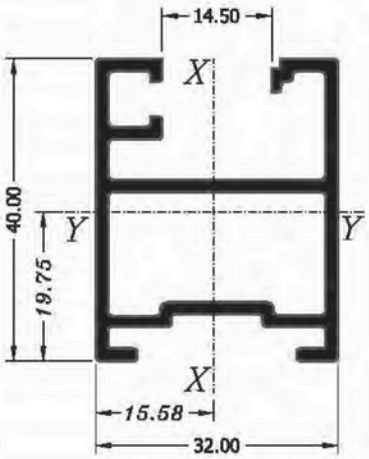
2 084 4610

1.033 Kg./ml.



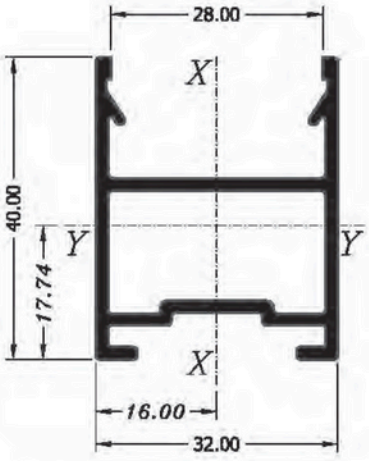
2 084 4630

0.952 Kg./ml.



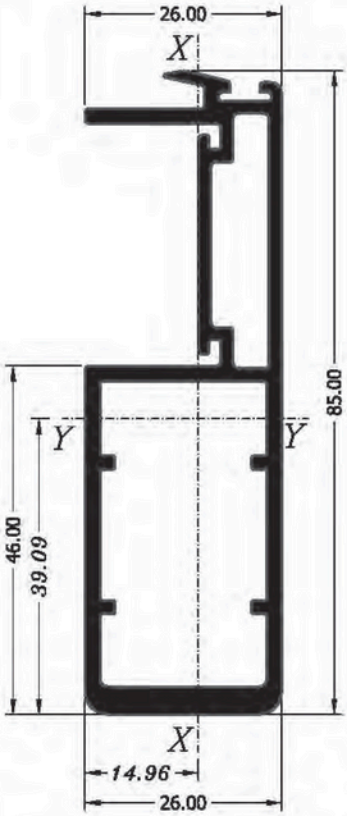
2 084 4660

0.690 Kg./ml.



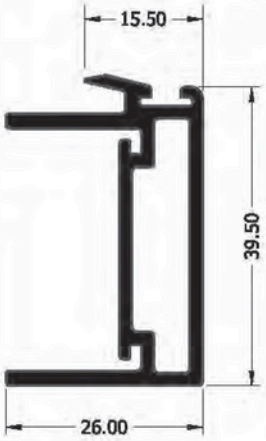
2 084 4680

0.607 Kg./ml.



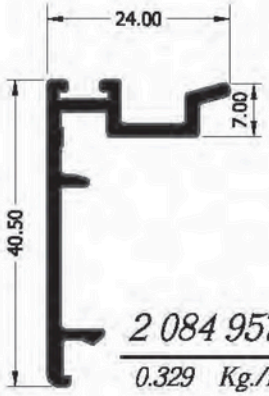
2 084 7330

1.259 Kg./ml.



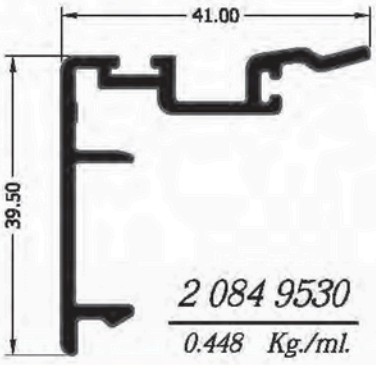
2 084 7020

0.606 Kg./ml.



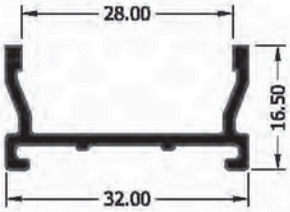
2 084 9570

0.329 Kg./ml.



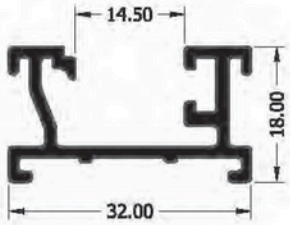
2 084 9530

0.448 Kg./ml.



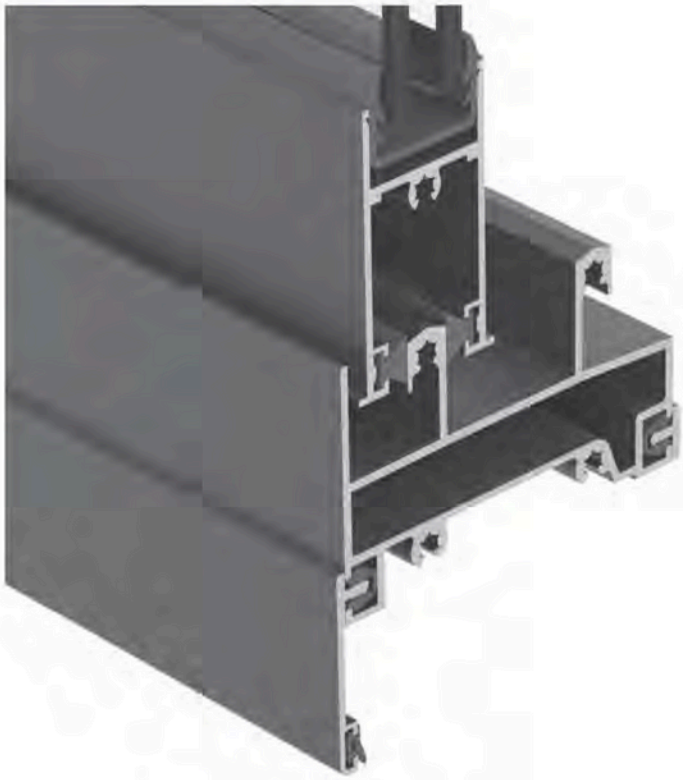
2 084 9820

0.231 Kg./ml.



2 084 9830

0.319 Kg./ml.



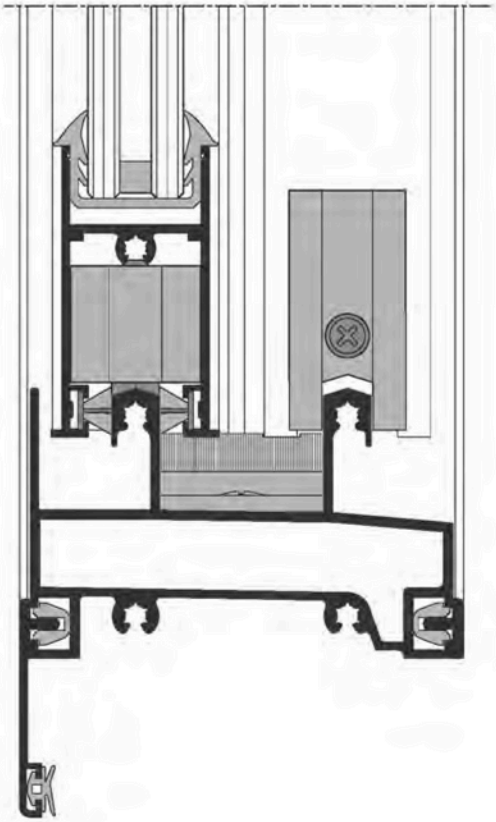
CLASSIC 80

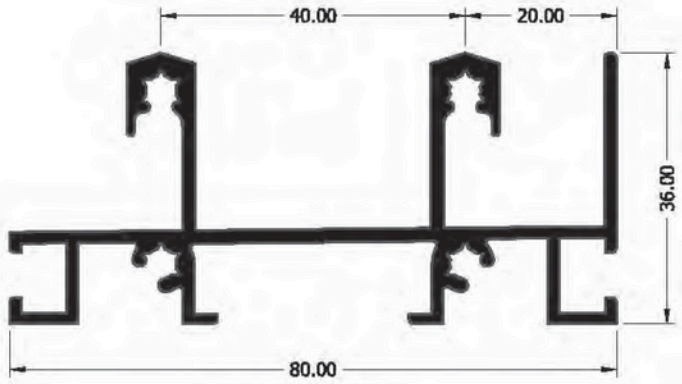
Sliding System

- Classic sliding window or sliding door with slim frame design.
- Used for doors and windows with moderate openings and economic residential buildings.
- Frames and sashes are cutting and assembled on 90 degrees while offering 45 degrees cutting trims.
- Allows the fabrication, production and easy assembly of windows and doors in less time.
- Available in the double or triple track design, structures with up to six leaves.

Technical Characteristics

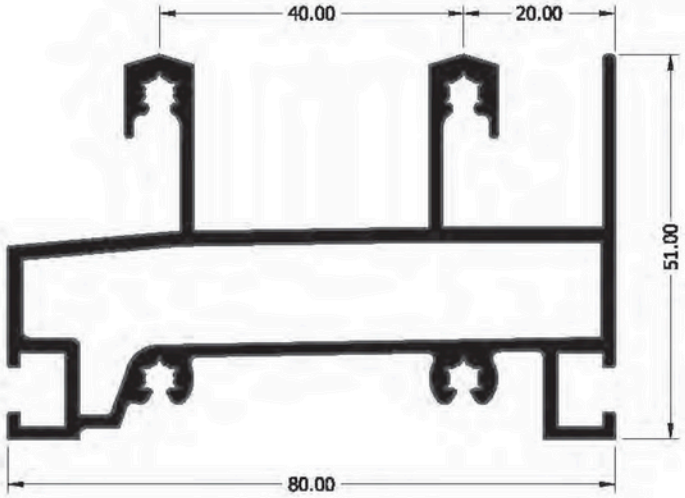
Frame	Depth	80 mm. to 124 mm.
	Height	26 mm. to 51 mm.
Sash	Depth	32 mm.
	Height	43 mm. to 61 mm.
Max Glass Thickness	Up to 21 mm.	
Max Sash Weight	Up to 80 kg.	
Sealing Type	With two rows of high-density brushes	





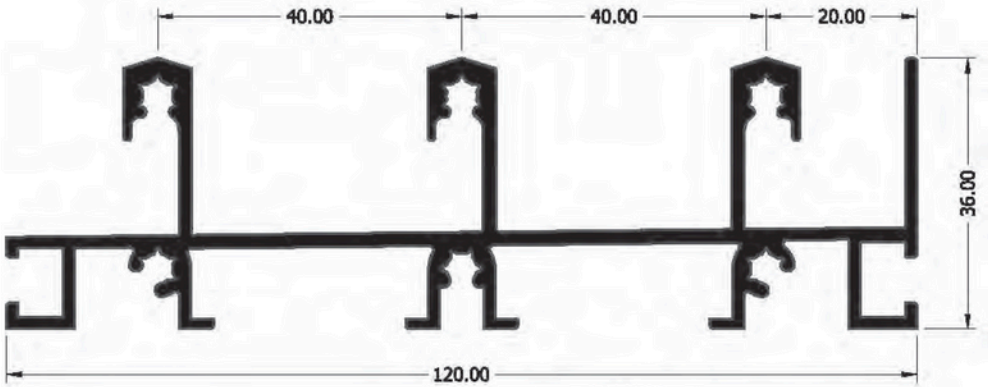
2 080 2220

1.291 Kg./ml.



2 080 2420

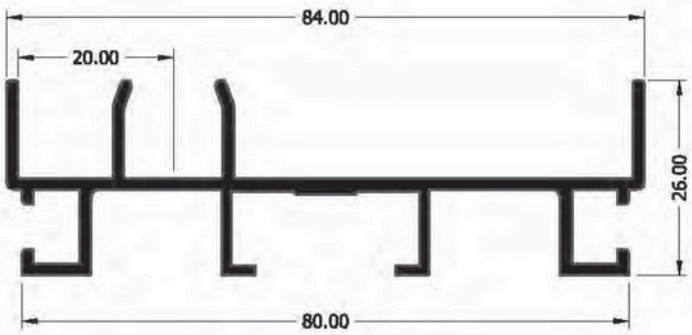
1.709 Kg./ml.



2 080 2620

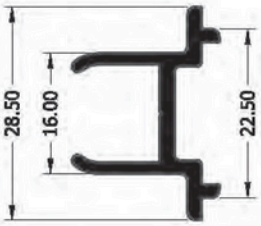
1.864 Kg./ml.

Profile No.	2 080 2220	2 080 2420	2 080 2620
Profile Old No.	SH 8020	SH 8022	SH 8023



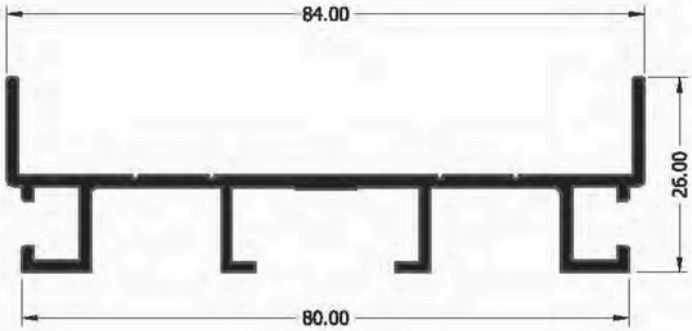
2 080 3220

0.888 Kg./ml.



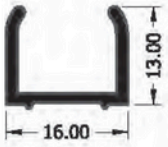
2 080 9610

0.297 Kg./ml.



2 080 3420

0.775 Kg./ml.



2 080 9240

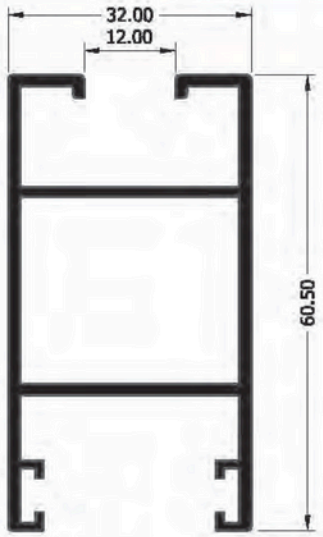
0.156 Kg./ml.



2 080 3620

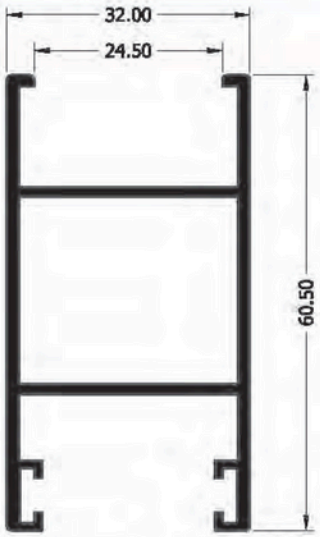
1.020 Kg./ml.

Profile No.	2 080 3220	2 080 3420	2 080 3620	2 080 9240	2 080 9610
Profile Old No.	SH 8030	SH 8032	SH 8033	SH 8036	SH 8088



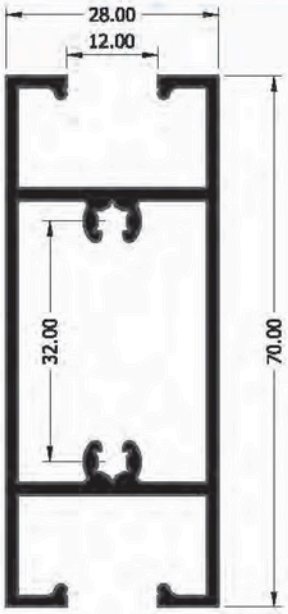
2 080 4110

0.859 Kg./ml.



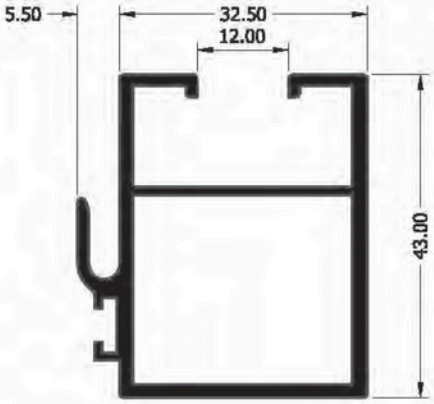
2 080 4220

0.797 Kg./ml.



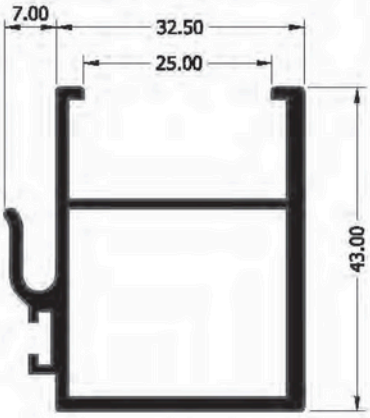
2 080 5210

1.013 Kg./ml.



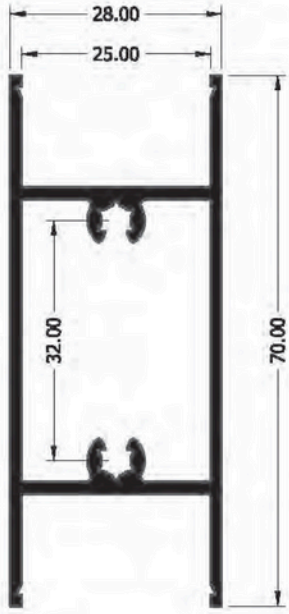
2 080 4310

0.851 Kg./ml.



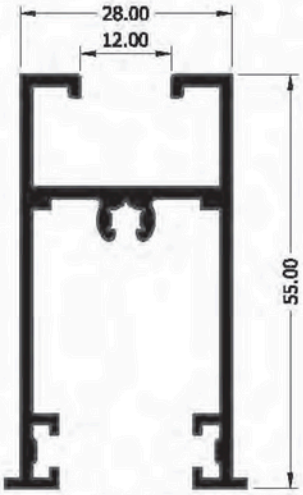
2 080 4420

0.791 Kg./ml.



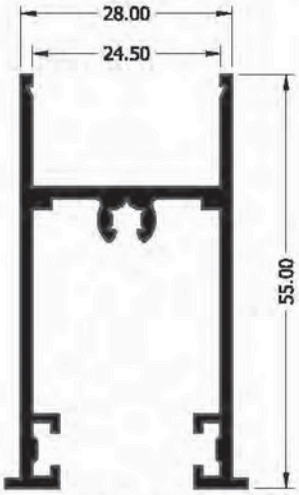
2 080 5220

0.877 Kg./ml.



2 080 4510

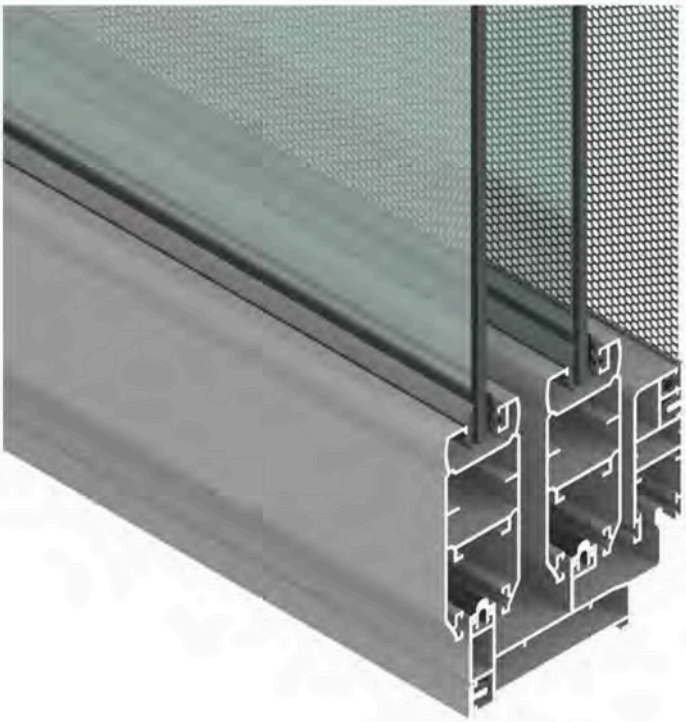
0.778 Kg./ml.



2 080 4620

0.713 Kg./ml.

Profile No.	2 080 4110	2 080 4220	2 080 4310	2 080 4420	2 080 4510	2 080 4620	2 080 5210	2 080 5220
Profile Old No.	SH 8040	SH 8042	SH 8050	SH 8052	SH 8060	SH 8062	SH 8070	SH 8072



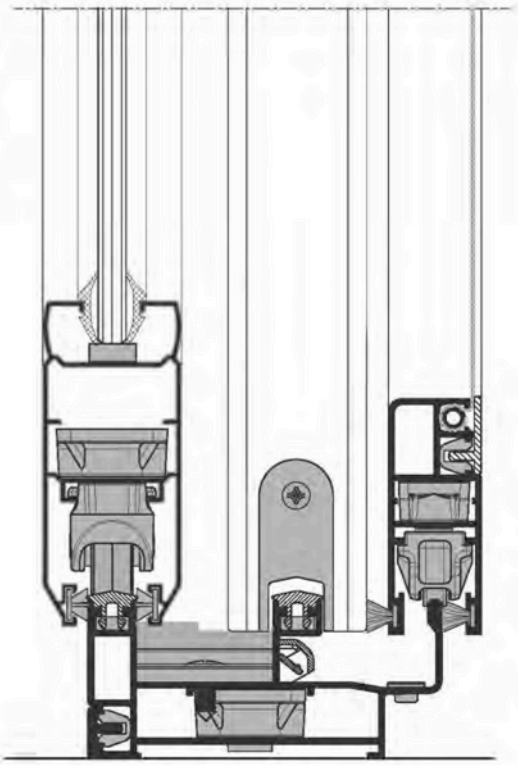
ALTO 70

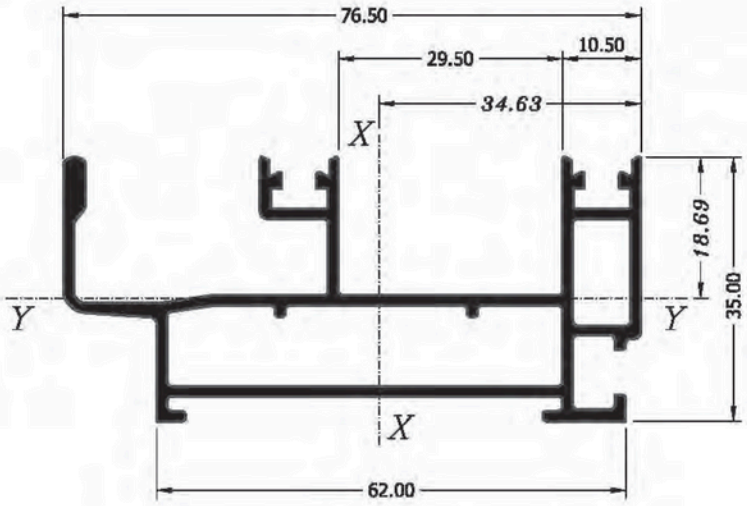
Sliding System

- Offers an extensive range of profiles for the construction of elegant and moderately priced aluminium frames for windows and doors.
- Ideal solution for small to medium doors for economic residential buildings.
- Most of the accessories can be adjusted and fixed with set screws.
- Offering a very competitive solution.

Technical Characteristics

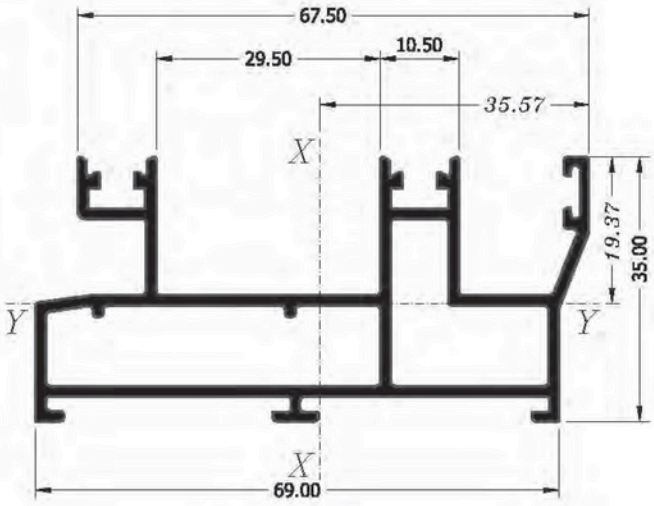
Frame	Depth	56 mm. to 74 mm.
	Height	37 mm. to 94 mm.
Sash	Depth	30 mm.
	Height	60 mm. to 72 mm.
Max Glass Thickness	Up to 18 mm.	
Max Sash Weight	Up to 100 kg.	
Sealing Type	Perimetrical, with two rows of high-density brushes	





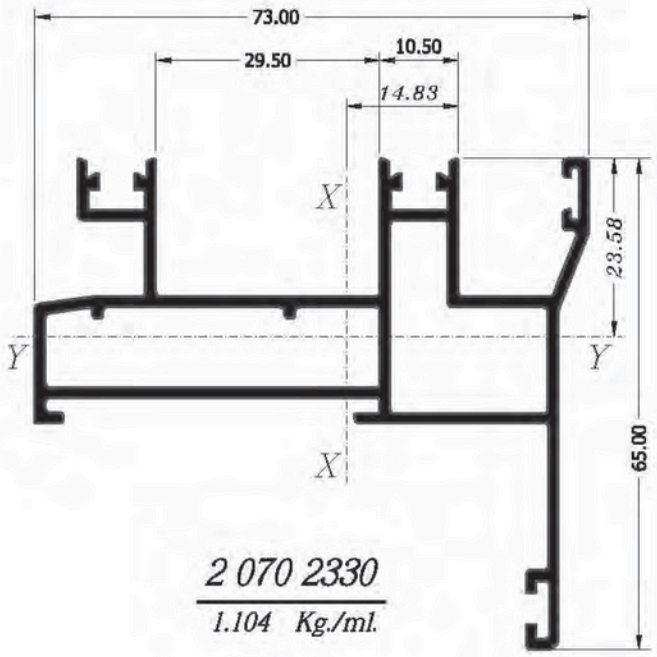
2 070 2110

0.957 Kg./ml.



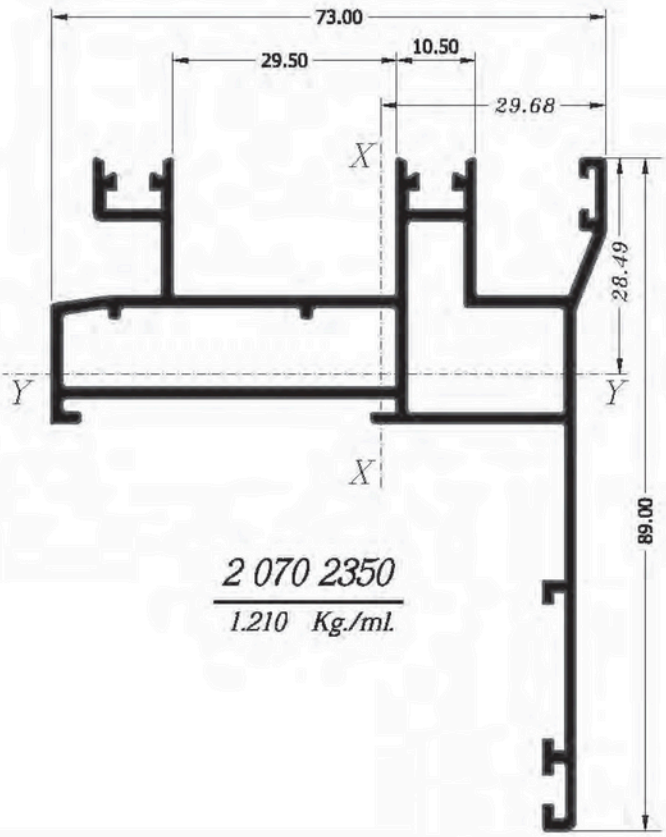
2 070 2308

0.962 Kg./ml.



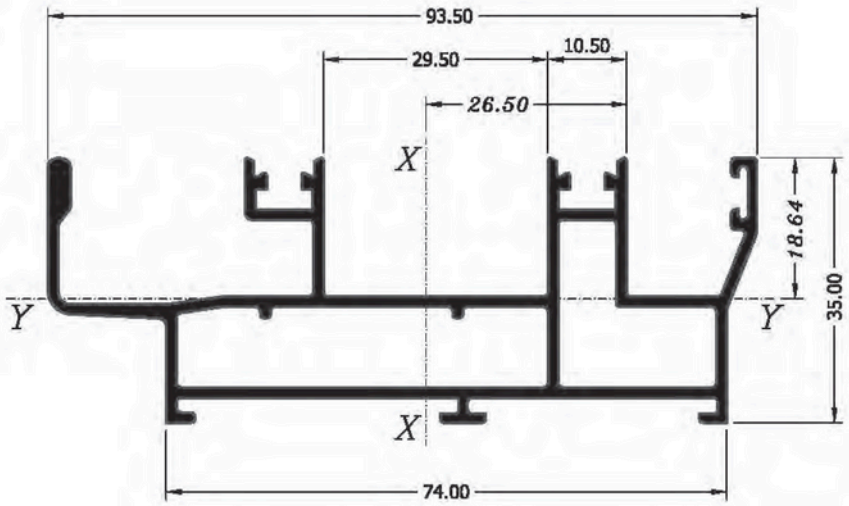
2 070 2330

1.104 Kg./ml.



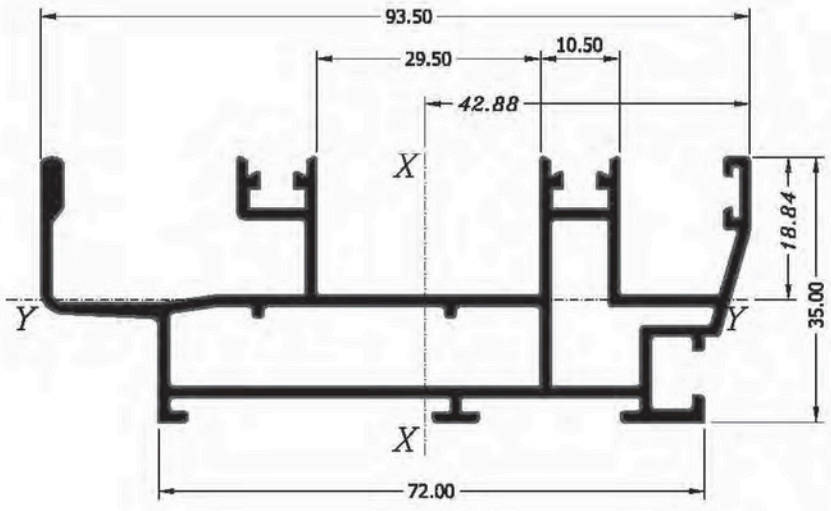
2 070 2350

1.210 Kg./ml.



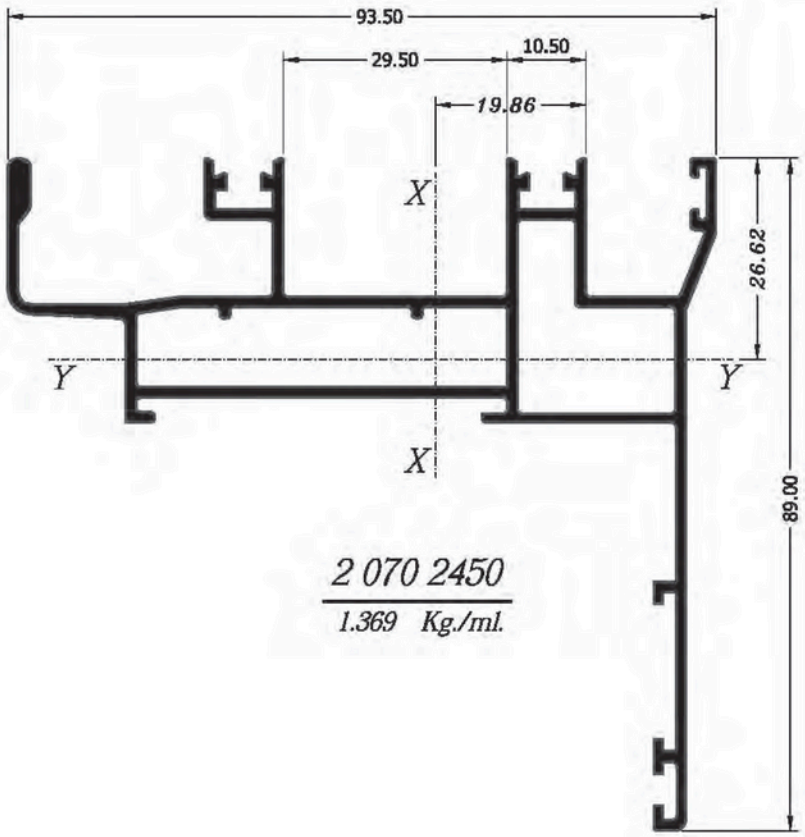
2 070 2408

1.133 Kg./ml.



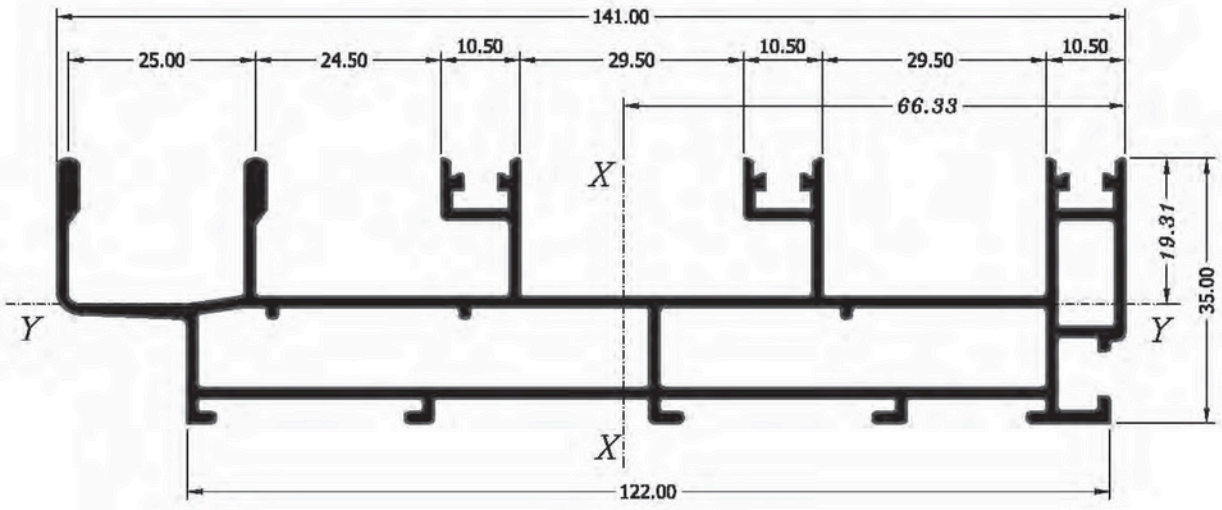
2 070 2418

1.174 Kg./ml.



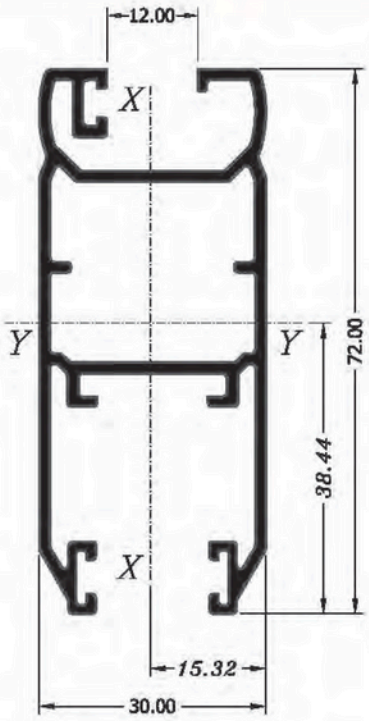
2 070 2450

1.369 Kg./ml.



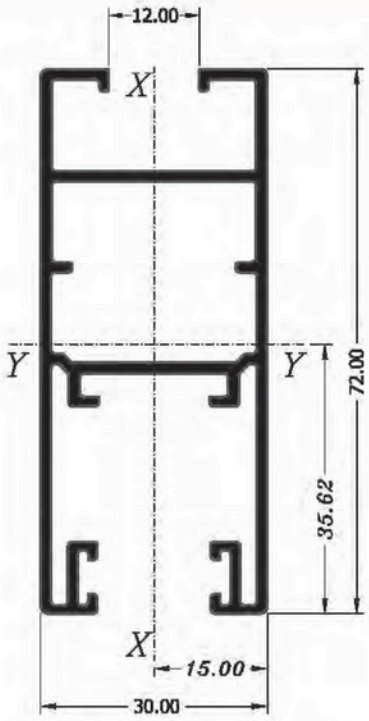
2 070 2710

1.748 Kg./ml.



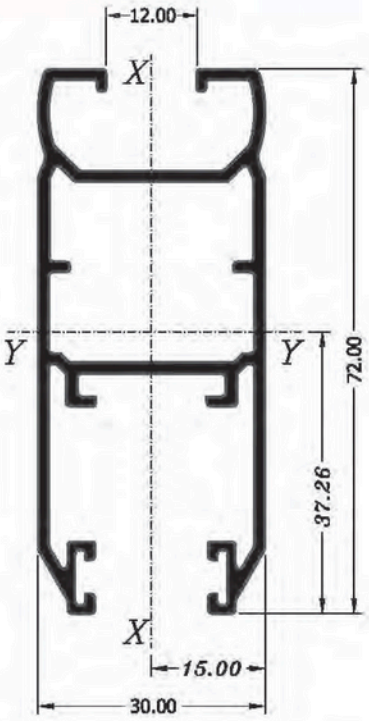
2 070 4116

0.896 Kg./ml.



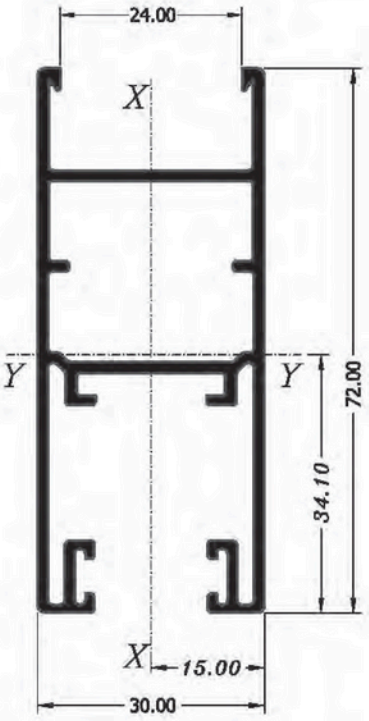
2 070 4210

0.905 Kg./ml.



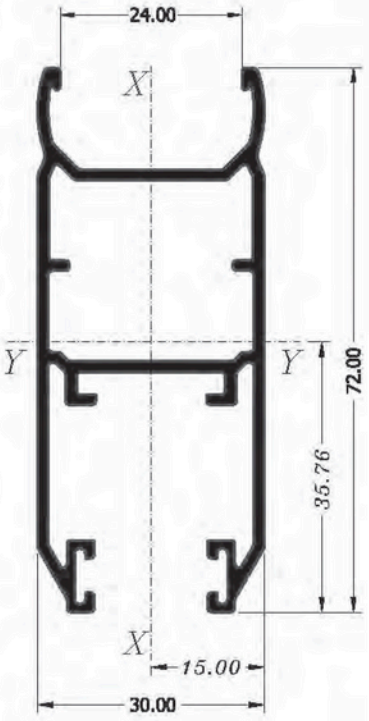
2 070 4216

0.853 Kg./ml.



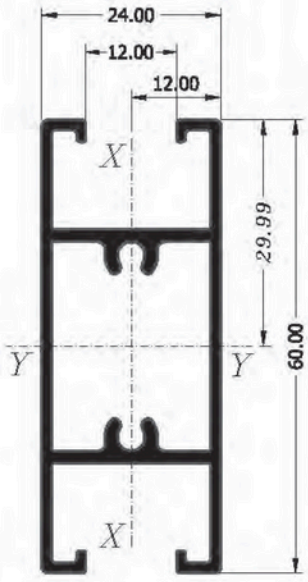
2 070 4220

0.868 Kg./ml.



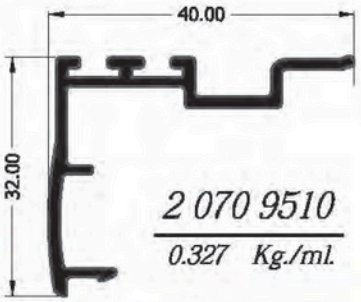
2 070 4226

0.856 Kg./ml.



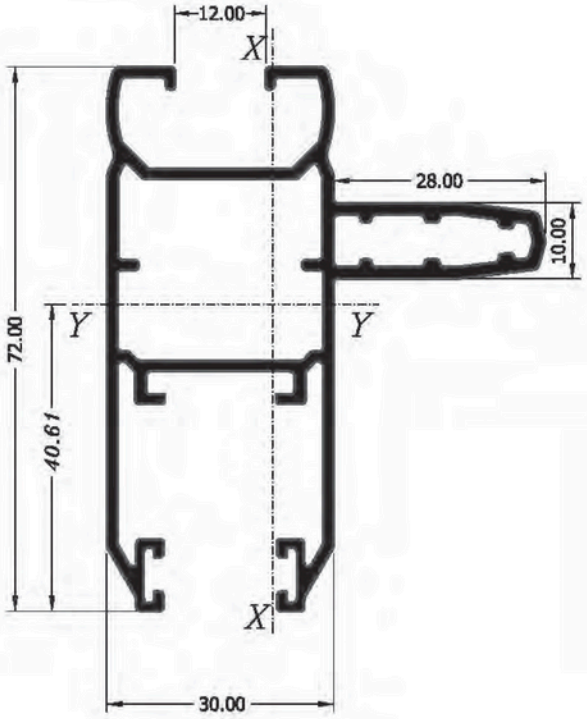
2 070 5210

0.714 Kg./ml.



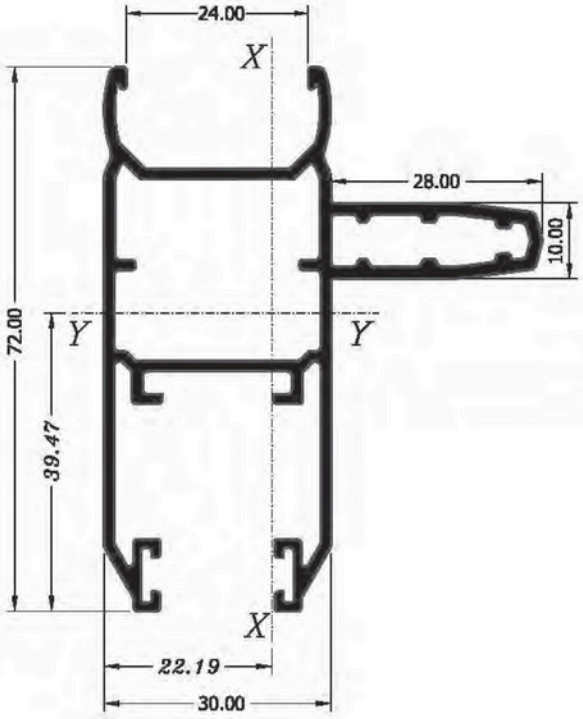
2 070 9510

0.327 Kg./ml.



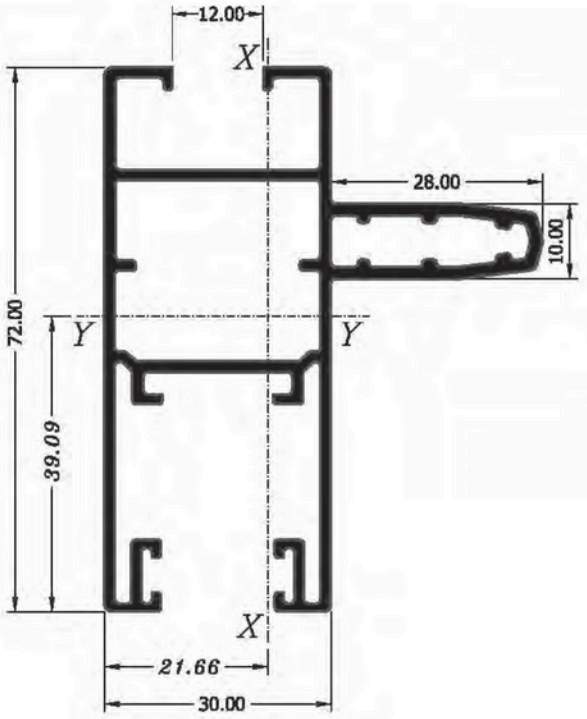
2 070 4416

1.115 Kg./ml.



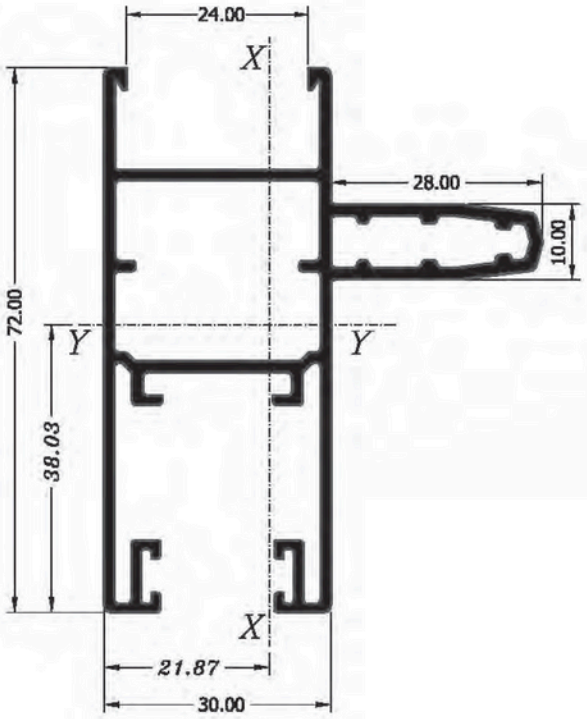
2 070 4426

1.081 Kg./ml.



2 070 4410

1.168 Kg./ml.



2 070 4420

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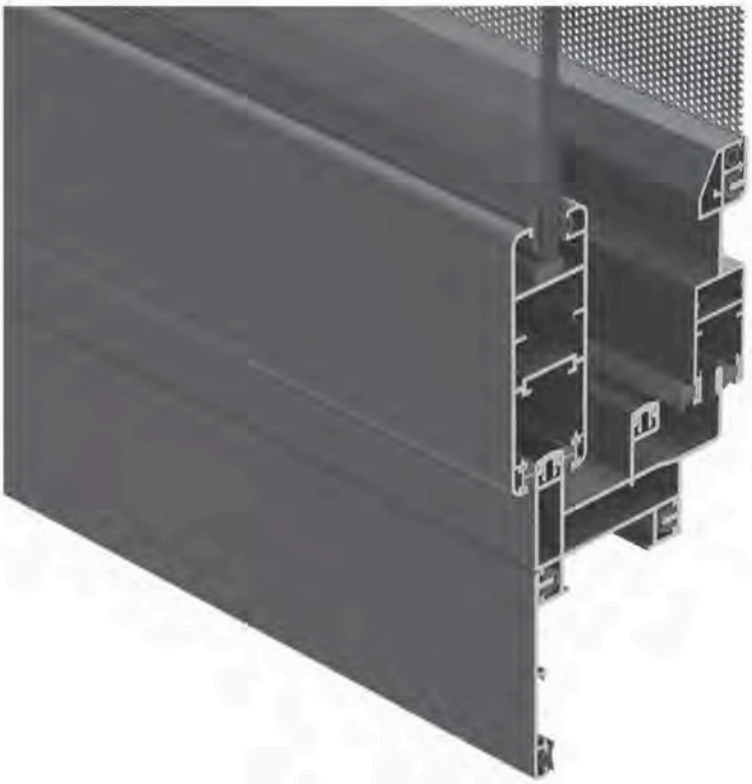


TANGO 60

Sliding System

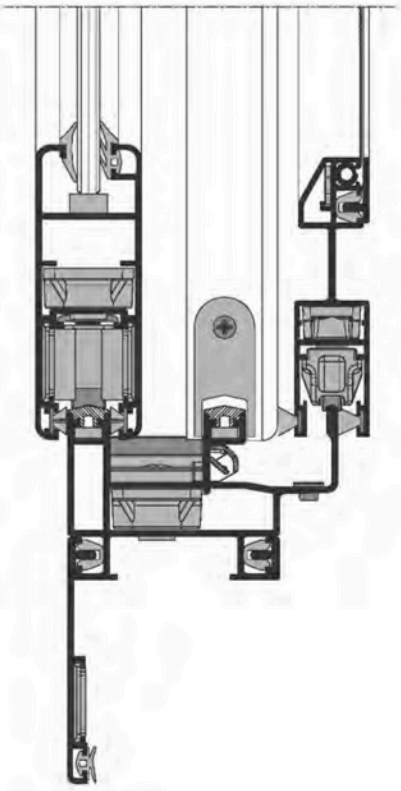
- Wide variety of sashes in shapes and dimensions that matches available frames with functional and soft line design.
- Wide range of locking systems and multi locking points and anti-lift blocks.
- Available in the double or triple track design, structures with up to six leaves.
- Integrated fly screen sash, available inside or outside.
- Most of the accessories can be adjusted and fixed with set screws.

Technical Characteristics

Frame	Depth	48 mm. to 147 mm.
	Height	46 mm. to 100 mm.
Sash	Depth	28 mm.
	Height	67 mm. to 78 mm.
Max Glass Thickness	Up to 20 mm.	
Max Sash Weight	Up to 120 kg.	
Sealing Type	Perimetrical, with two rows of high-density brushes	

Complies with European norm hEN 1435-1

Air Permeability	(Class 3) up to 600 pa.
Water Tightness	(Class 5A) up to 200 pa.
Resistance to wind load	(Class C4) up to 1600 pa.



EUROPEAN CERTIFYING ORGANIZATION S.P.A.
NOTIFIED TESTING LABORATORY N. 0714
FOR REGULATION (EU) No 305/2011

CLASSIFICATION ASSESSMENT
N. 0714-CPR-1302 DATED NOVEMBER, 30 2015

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, that replaces Council Directive 89/106/EEC and lays down conditions for the placing or making available on the market of construction products by establishing harmonised rules on how to express their performance in relation to their essential characteristics and taking account of the horizontal legal framework for the marketing of products in the internal market, established by Regulation (EC) No. 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products, as well as by Decision No. 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products,
and in compliance with hEN 14351-1:2006 – A1:2010 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics, which is currently in force,
European Certifying Organization S.p.A., notified laboratory NB 0714, carried out the following:

type-testing

for the determination of the essential characteristics

Air Permeability – Water tightness – Resistance to Wind Load

on the below mentioned external pedestrian doorset without resistance to fire and/or smoke leakage characteristics
in compliance with EN 12207:1999, EN 12208:1999, EN 12210:1999 – Classification,
EN 1026:2000, EN 1027:2000, EN 12211:2000 – Tests and calculations
System of assessment and verification of constancy of performance 3

The specimen, as provided by the Manufacturer, was identified as follows:

DESCRIPTION OF THE PRODUCT

Type:	Sliding window, two sashes.
Model:	TANGO 60 Width= 1,860 mm, Height = 1,460 mm, Thickness = 28 mm
Fabrication number:	-
Date of fabrication:	2015

Taking into account the documentation submitted by the Manufacturer and on the basis of the results of the type-testing carried out, as described in the laboratory report ECO CP0025/5, dated November 30, 2015, in accordance with Annex ZA of hEN 14351-1:2006 – A1:2010 and with the EN 12207:1999, EN 12208:1999 and EN 12210:1999 classification, to the specimen, as previously identified,

THE FOLLOWING CLASSIFICATION IS AWARDED

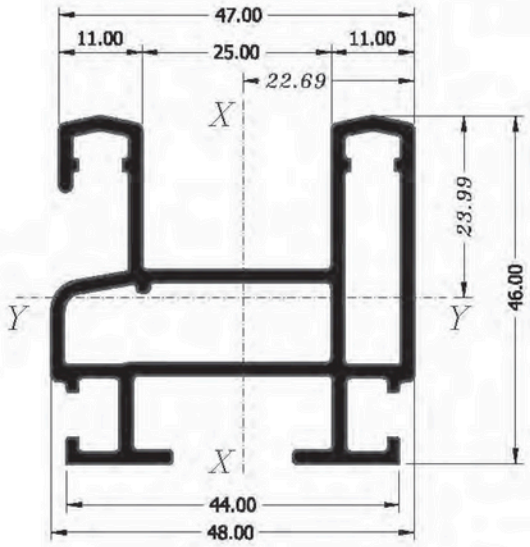
AIR PERMEABILITY:	**CLASS 3**
WATERTIGHTNESS:	**CLASS 5A**
RESISTANCE TO WIND LOAD:	**CLASS C4**

The results refer only to the specimen that has been provided by the Manufacturer and submitted to type-testing listed above.
This classification assessment consists of 1 page and its reproduction is permitted in full only.

Faenza, November 30, 2015

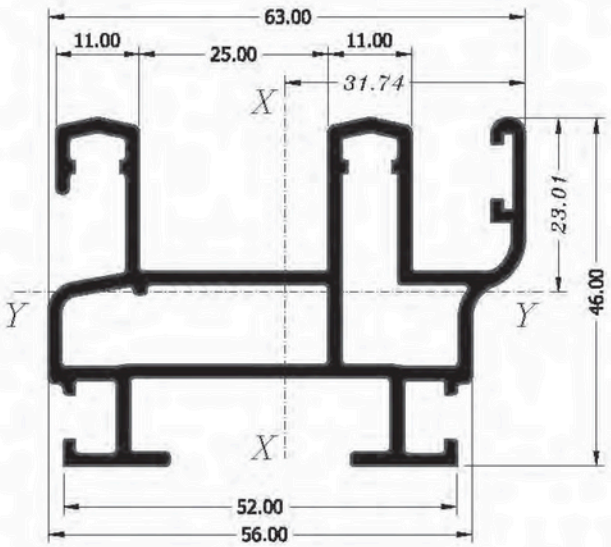
The undersigned ECO Certificazioni S.p.A. Scheme Manager CPR
Eng. Gianluca Campolmi

ECO CERTIFICAZIONI S.p.A. - ITALY
ECO Via Mengolina, 33 FAENZA (RA) www.eco-cert.it



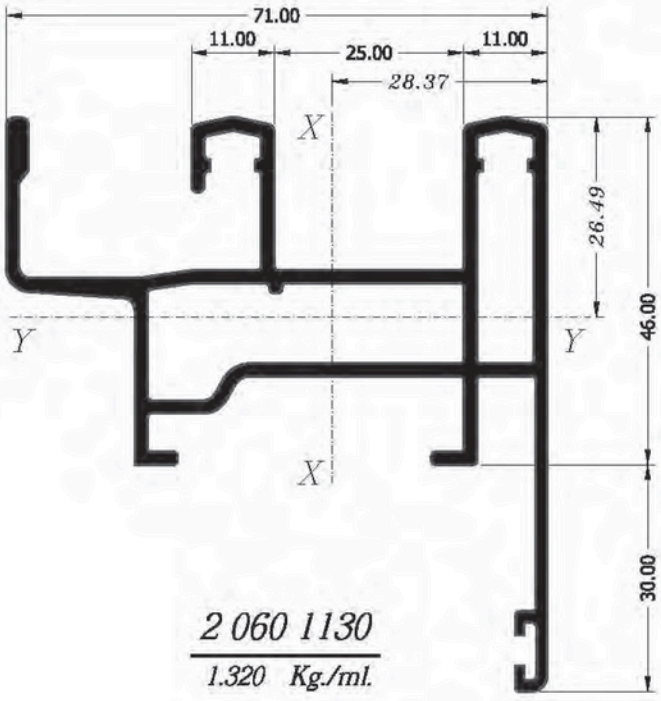
2 060 1020

1.037 Kg./ml.



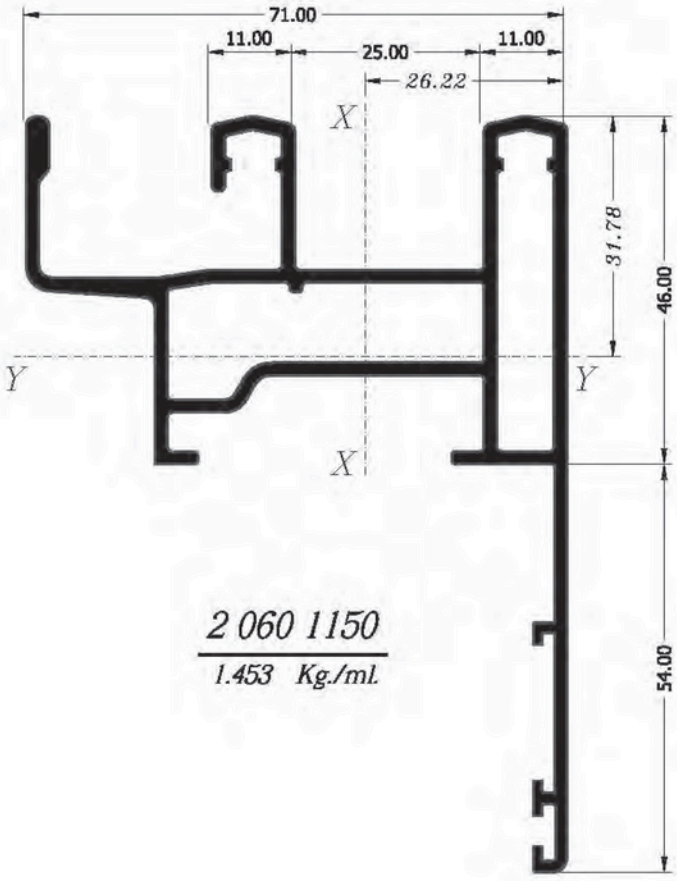
2 060 1320

1.229 Kg./ml.



2 060 1130

1.320 Kg./ml.



2 060 1150

1.453 Kg./ml.

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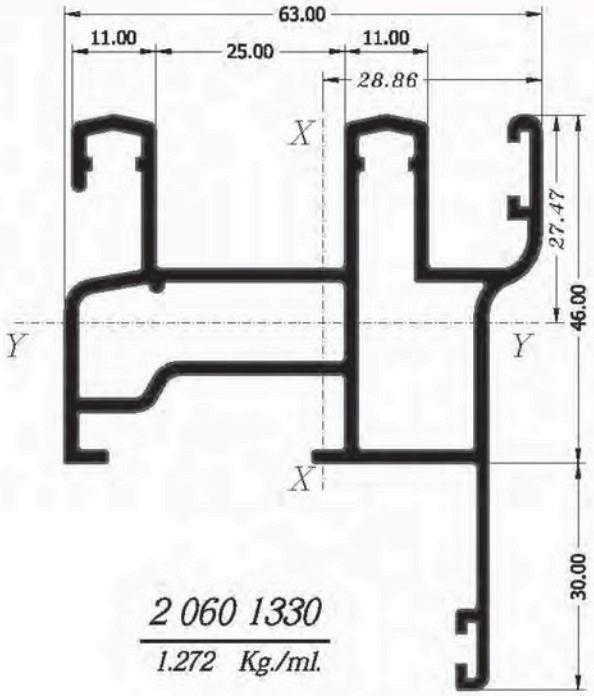
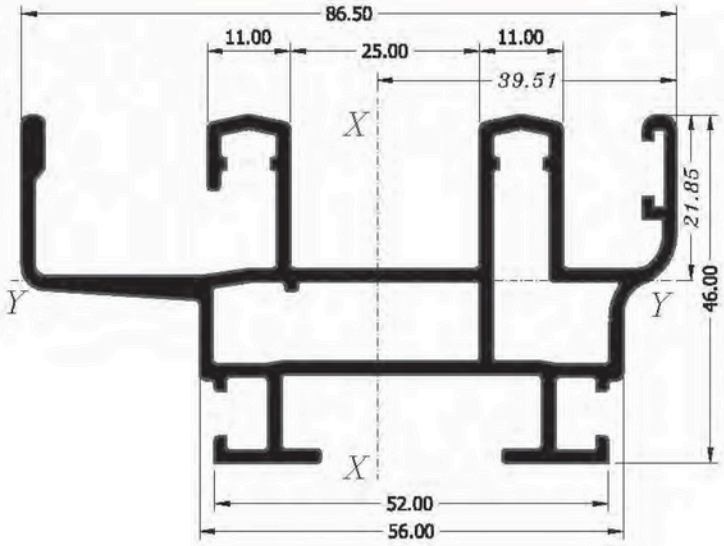


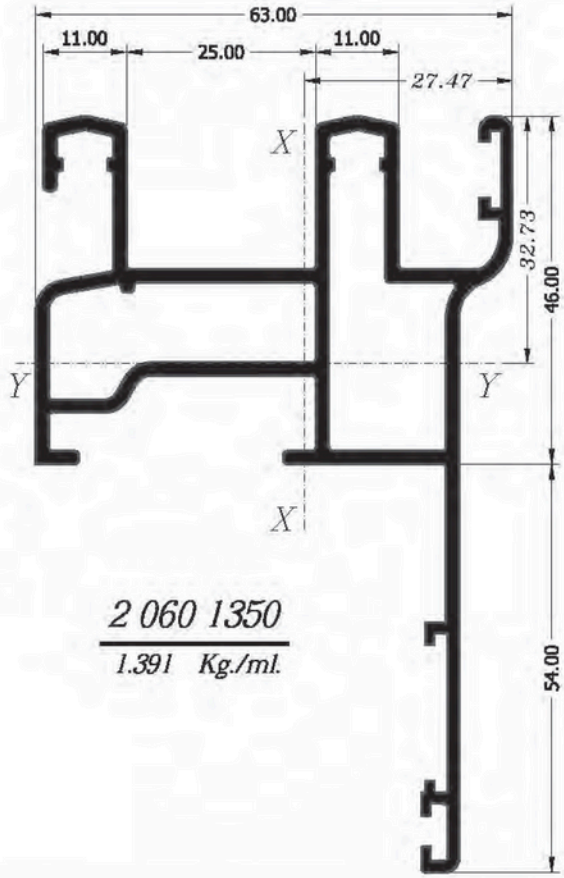
2 060 1330

1.272 Kg./ml.



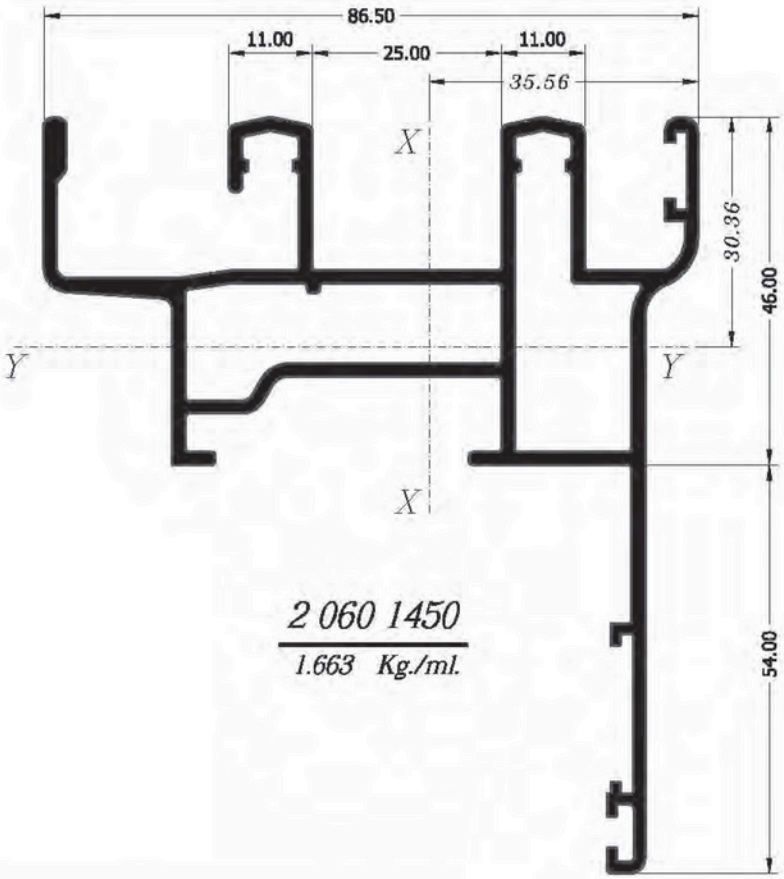
2 060 1420

1.469 Kg./ml.



2 060 1350

1.391 Kg./ml.



2 060 1450

1.663 Kg./ml.

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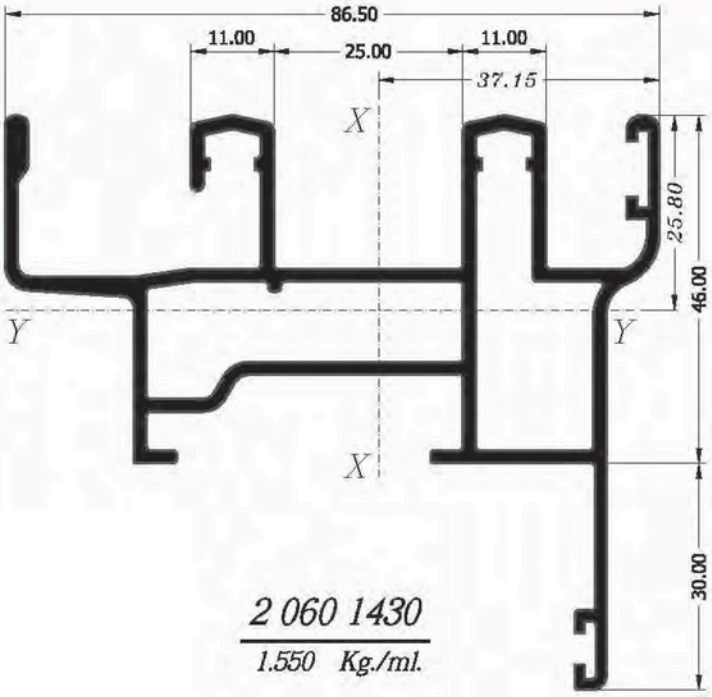
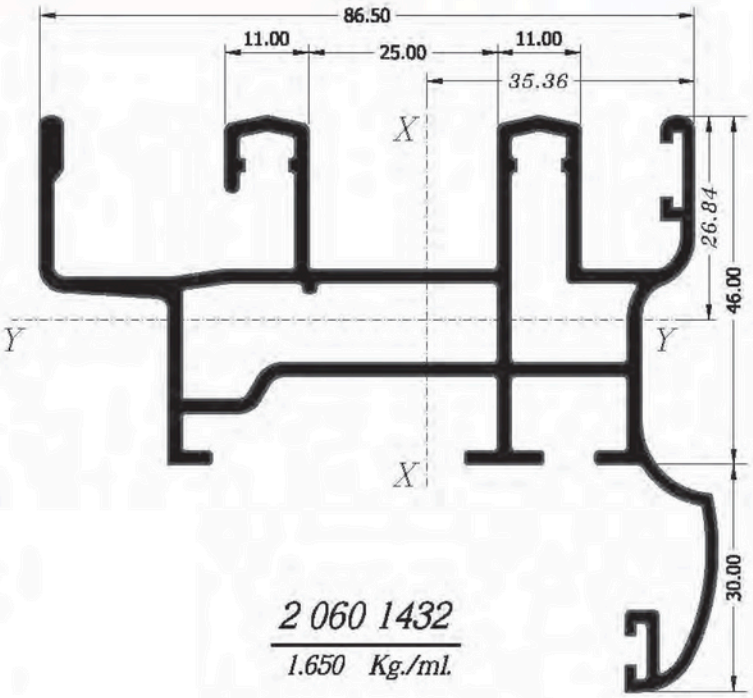
Profile Old No.	TG 6022	TG 6026	TG 6023	TG 6025



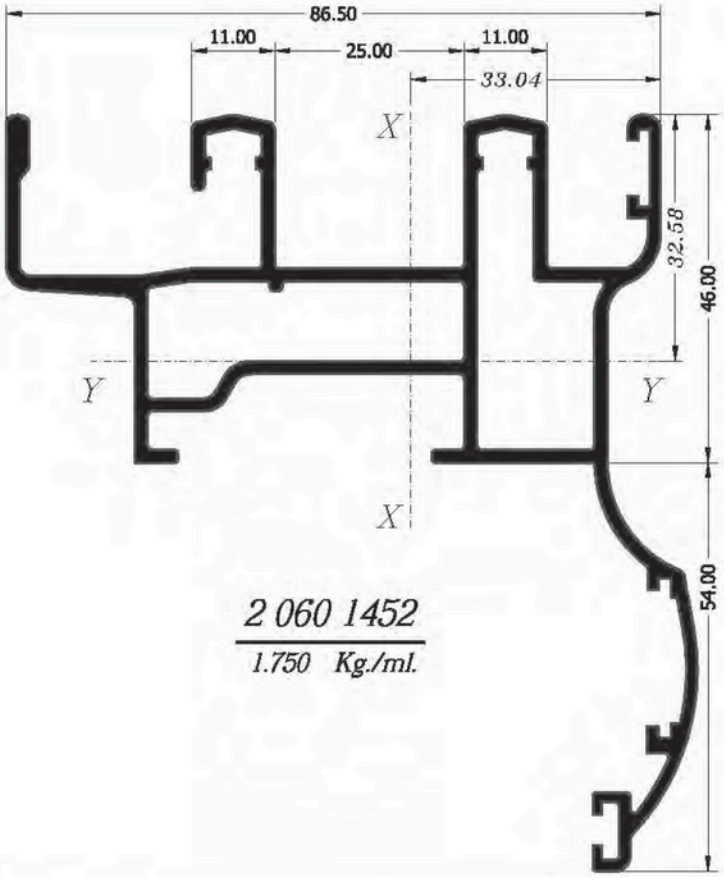
2 060 1430

1.550 Kg./ml.



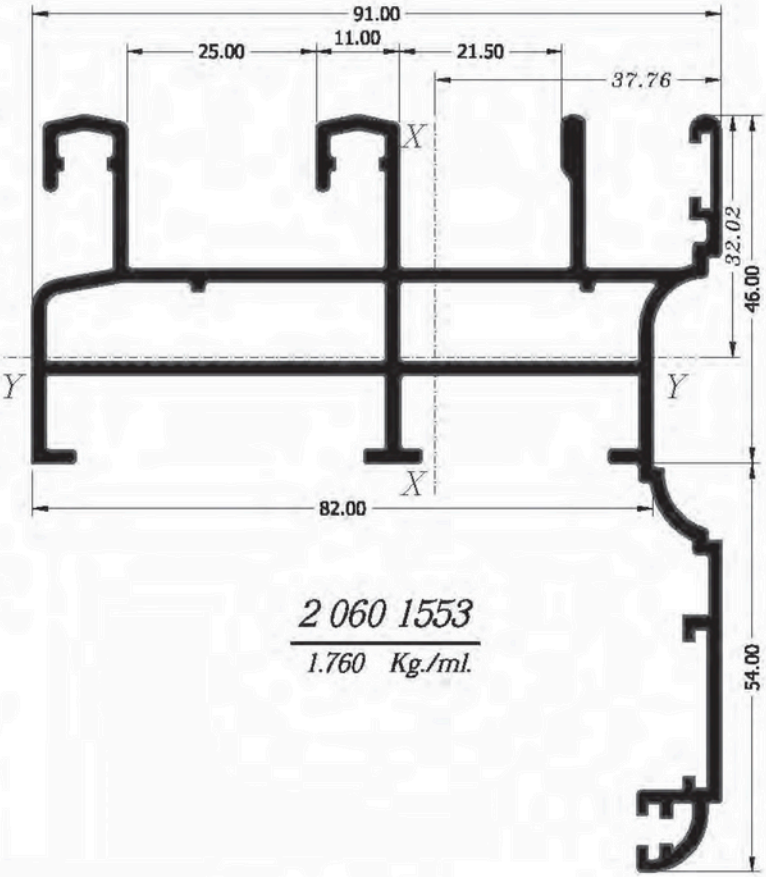
2 060 1432

1.650 Kg./ml.



2 060 1452

1.750 Kg./ml.



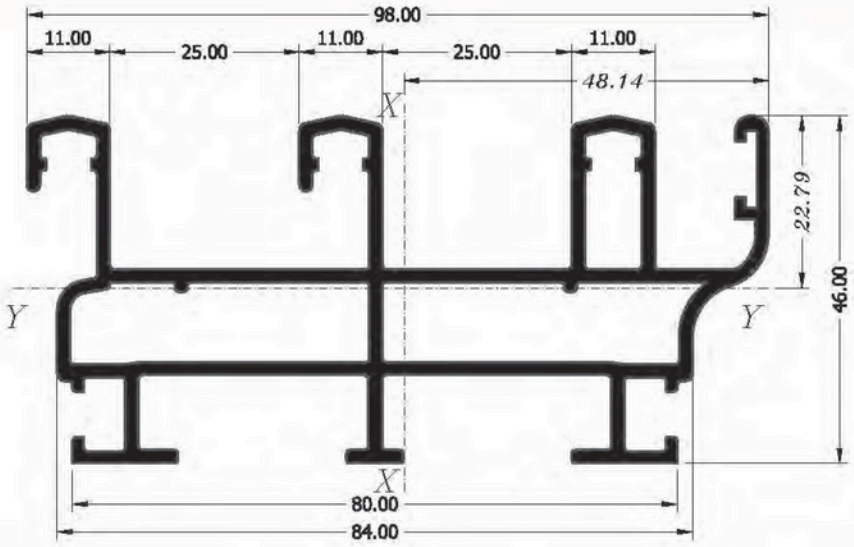
2 060 1553

1.760 Kg./ml.

Profile No.	2 060 1430	2 060 1432	2 060 1452	2 060 1553
Profile Old No.	TG 6024	TG 6020	TG 6025.2	TG 6019.3

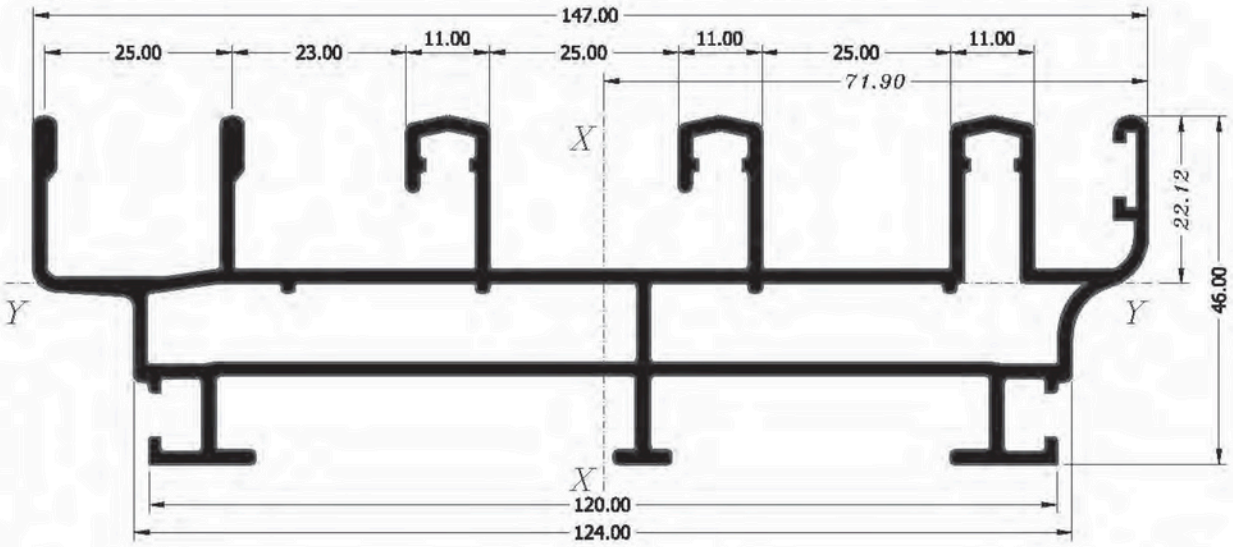
2 060 1820

1.725 Kg./ml.



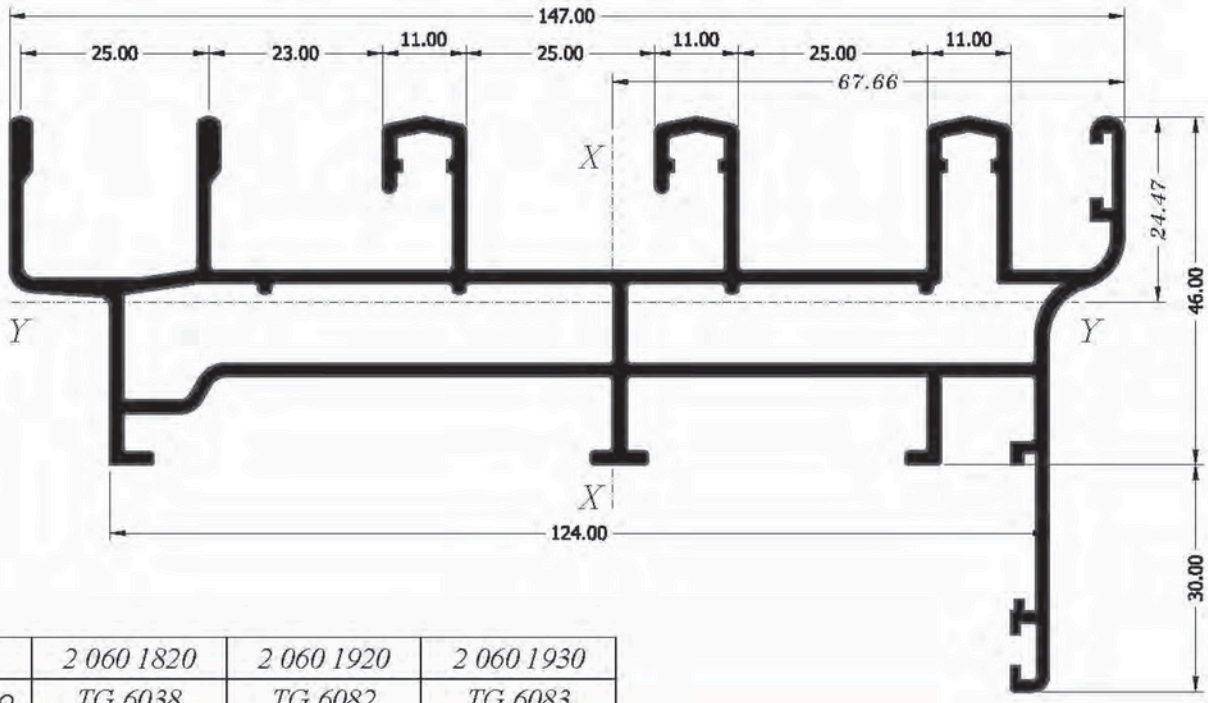
2 060 1920

2.315 Kg./ml.



2 060 1930

2.457 Kg./ml.



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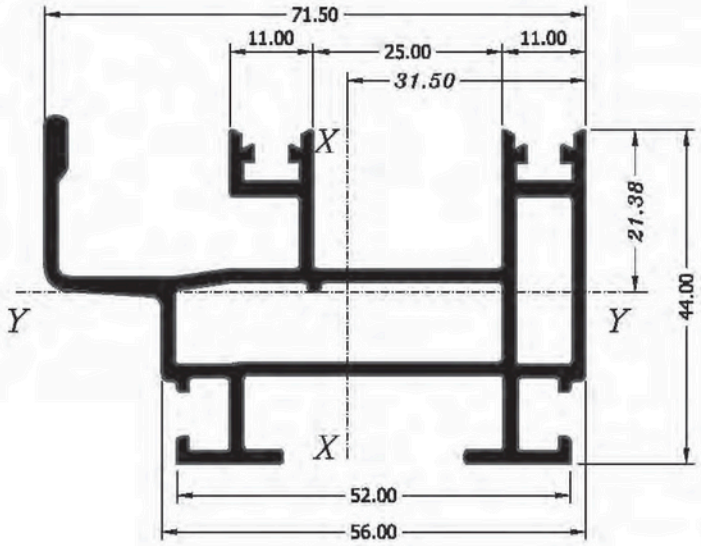
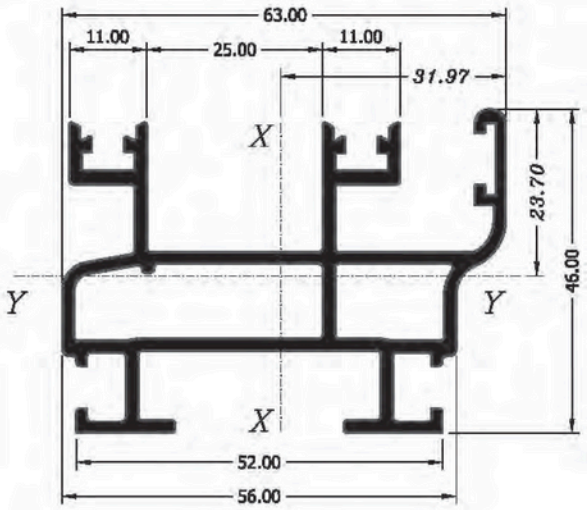
Profile Old No.	TG 6038	TG 6082	TG 6083



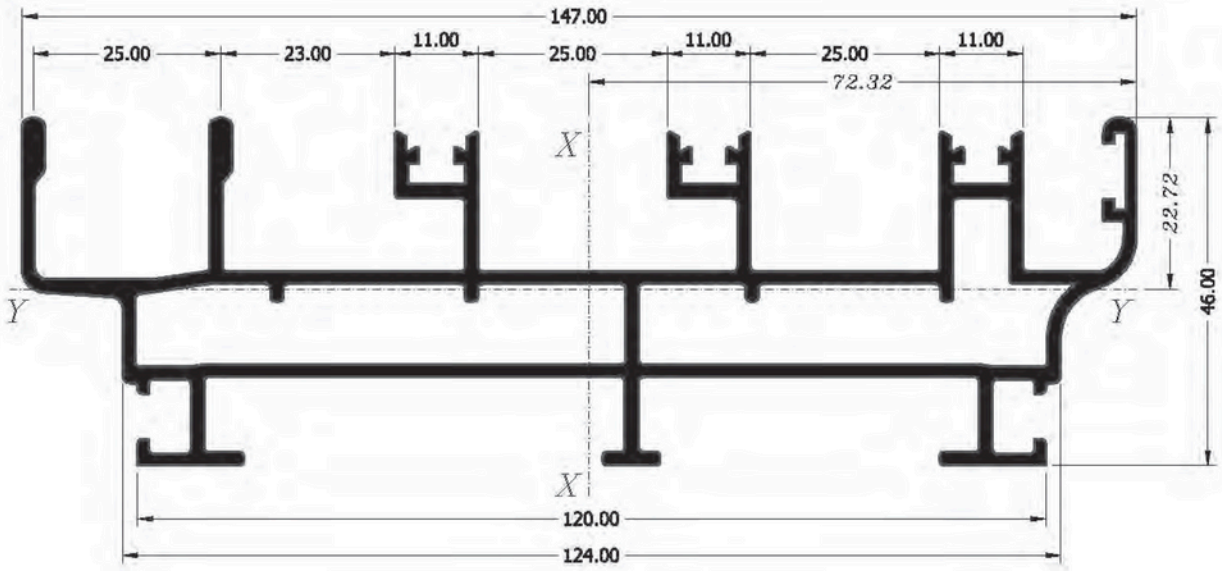
2 060 2120

1.279 Kg./ml.



2 060 2320

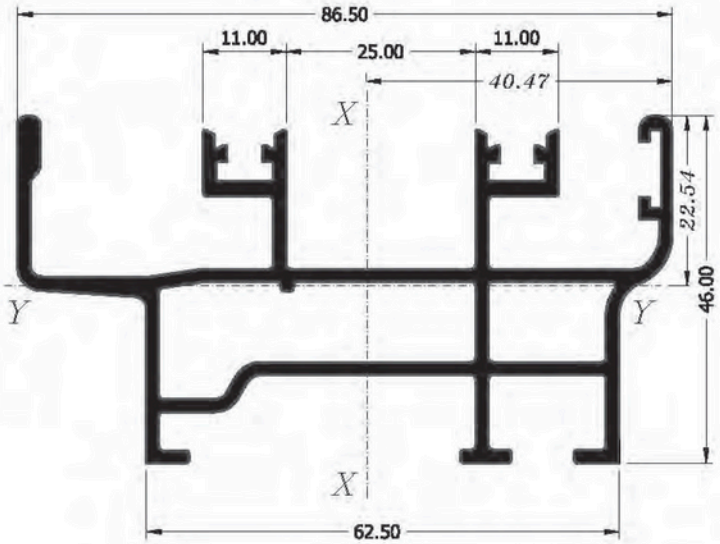
1.173 Kg./ml.



2 060 2920

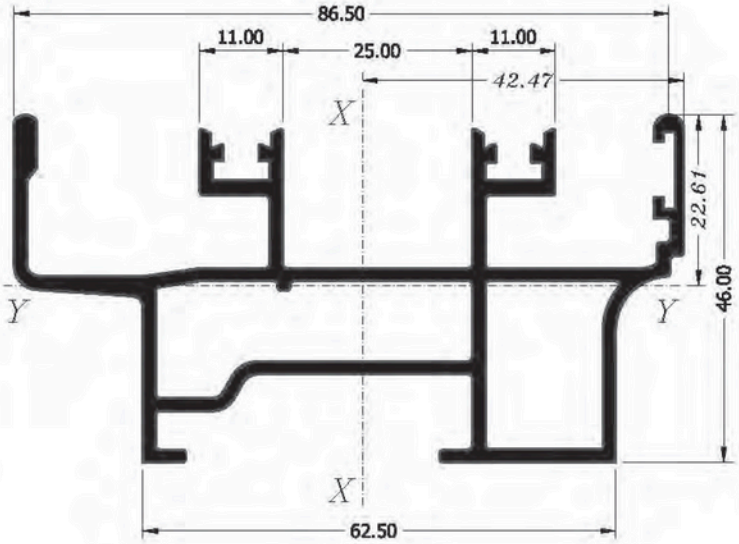
2.320 Kg./ml.

Profile No.	2 060 2320
Profile Old No.	TG 6031



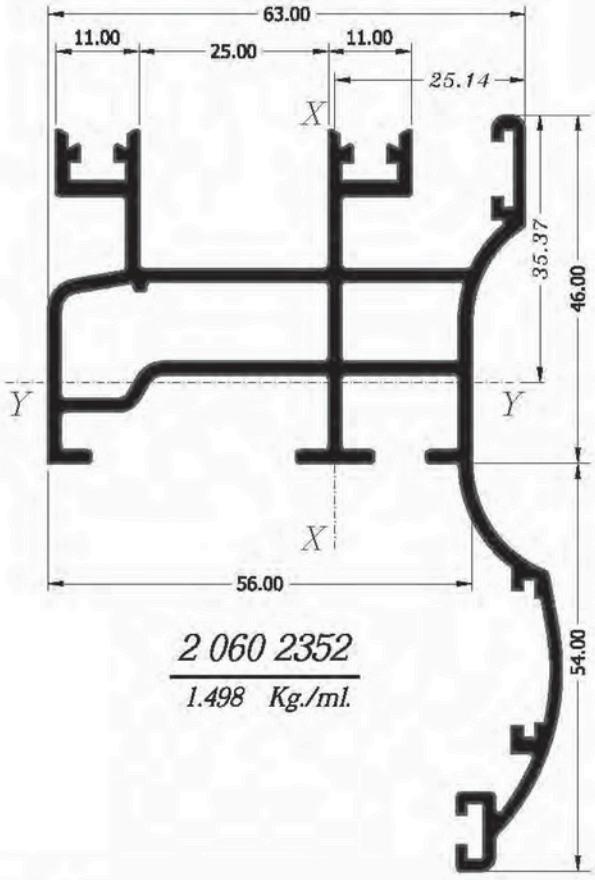
2 060 2400

1.419 Kg./ml.



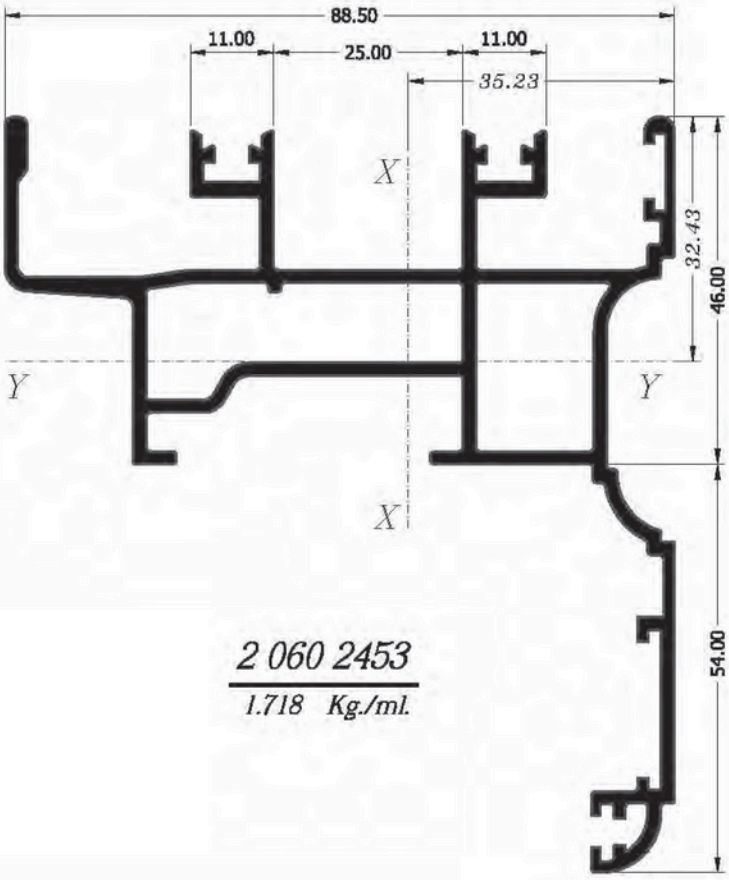
2 060 2403

1.404 Kg./ml.



2 060 2352

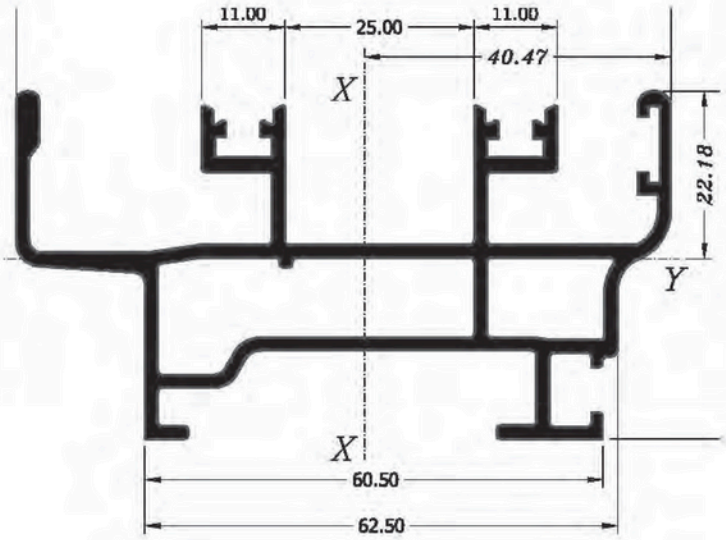
1.498 Kg./ml.



2 060 2453

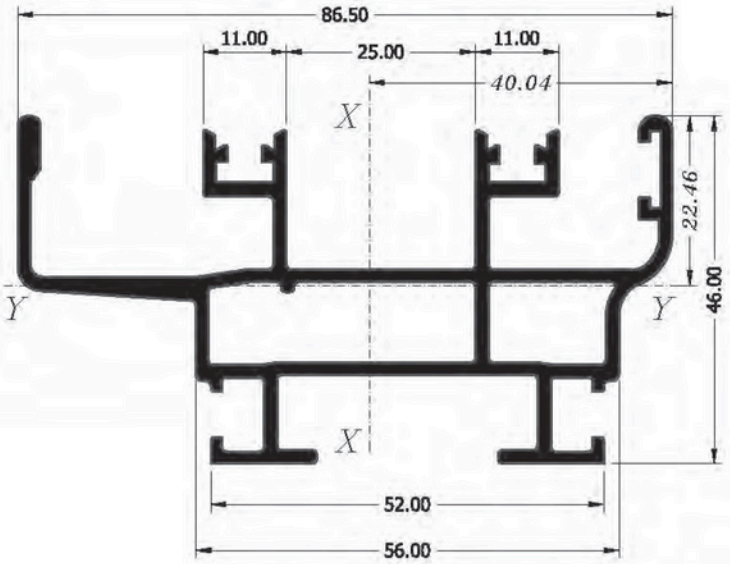
1.718 Kg./ml.

Profile No.	2 060 2352	2 060 2453
Profile Old No.	TG 6033.2	TG 6037.3



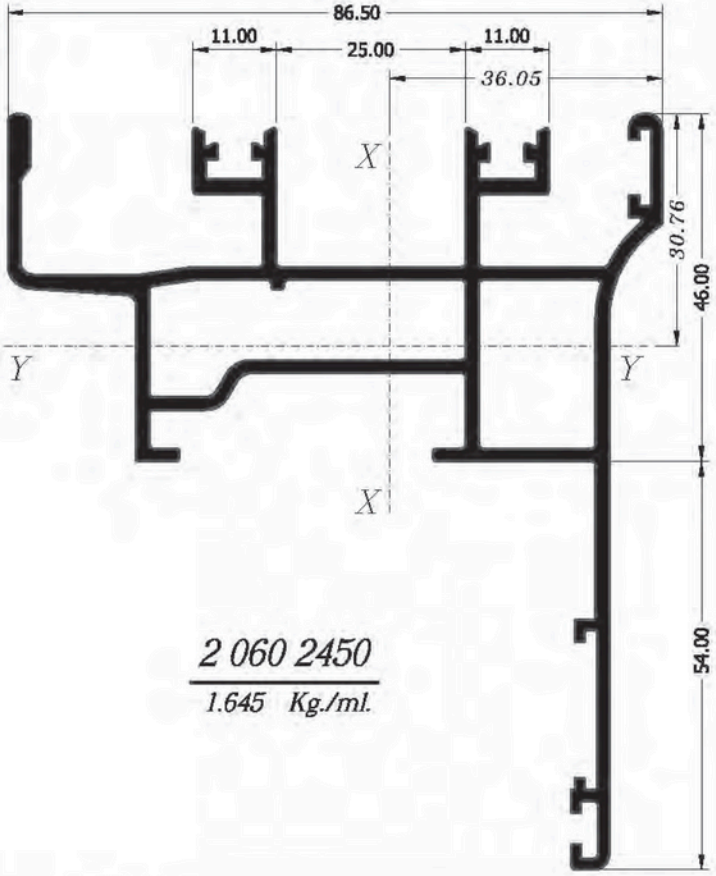
2 060 2410

1.394 Kg./ml.



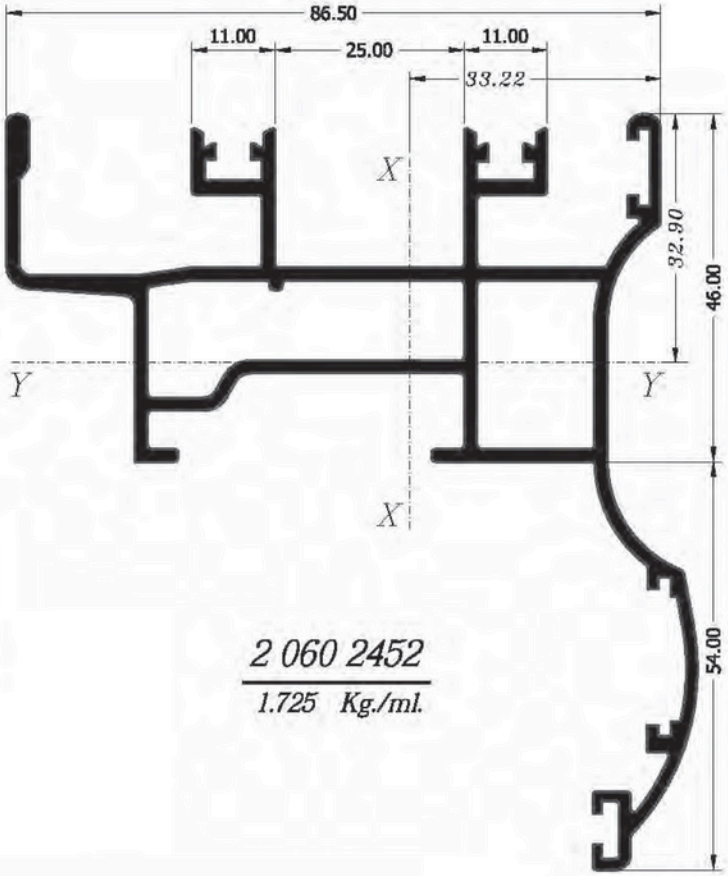
2 060 2420

1.422 Kg./ml.



2 060 2450

1.645 Kg./ml.



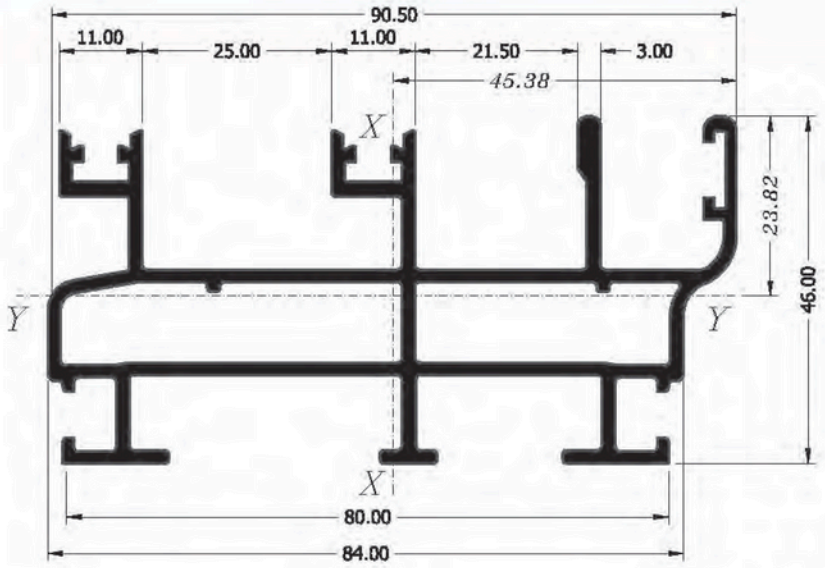
2 060 2452

1.725 Kg./ml.

Profile No.	2 060 2410	2 060 2420	2 060 2452
Profile Old No.	TG 6035	TG 6035.2	TG 6037.2

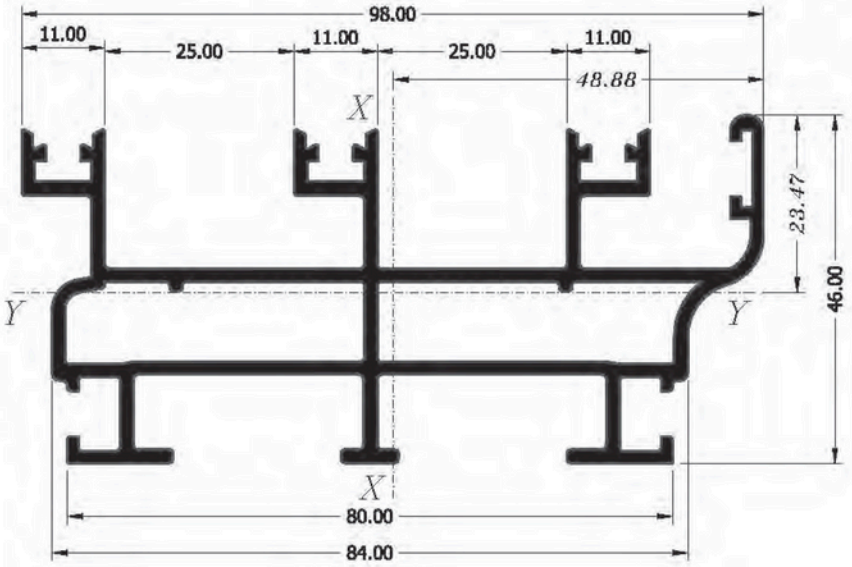
2 060 2520

1.570 Kg./ml.



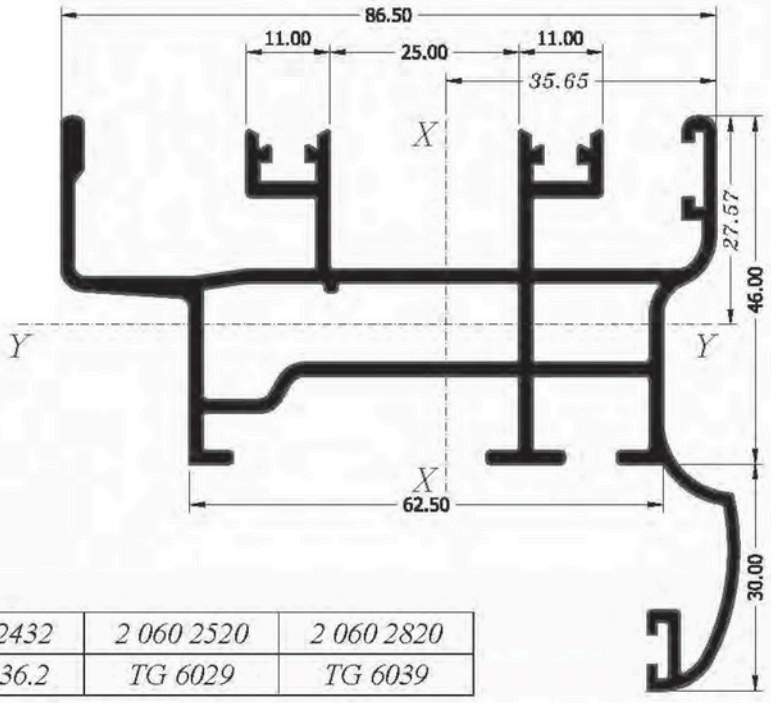
2 060 2820

1.683 Kg./ml.

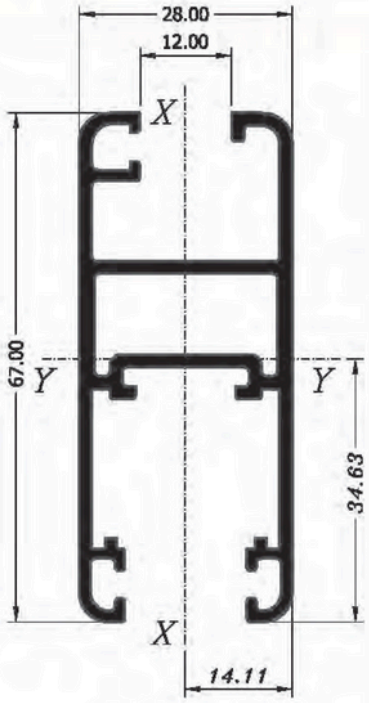


2 060 2432

1.623 Kg./ml.

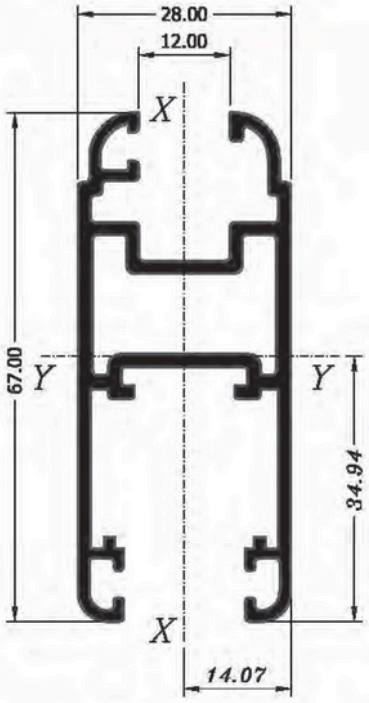


Profile No.	2 060 2432	2 060 2520	2 060 2820
Profile Old No.	TG 6036.2	TG 6029	TG 6039



2 060 4110

0.942 Kg./ml.



2 060 4113

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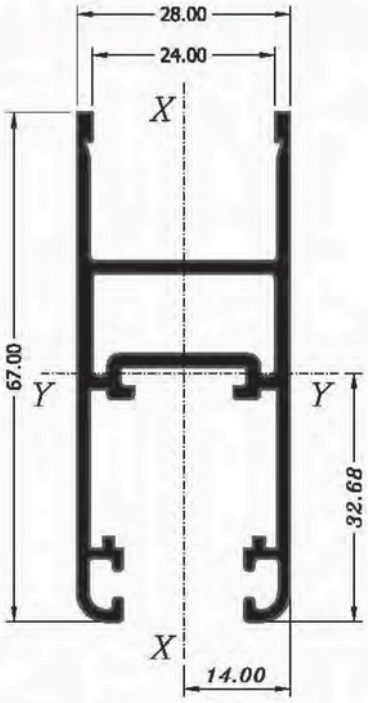

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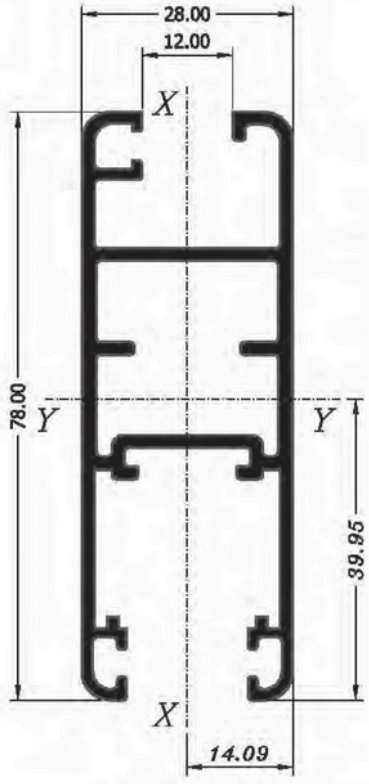
0.883 Kg./ml.



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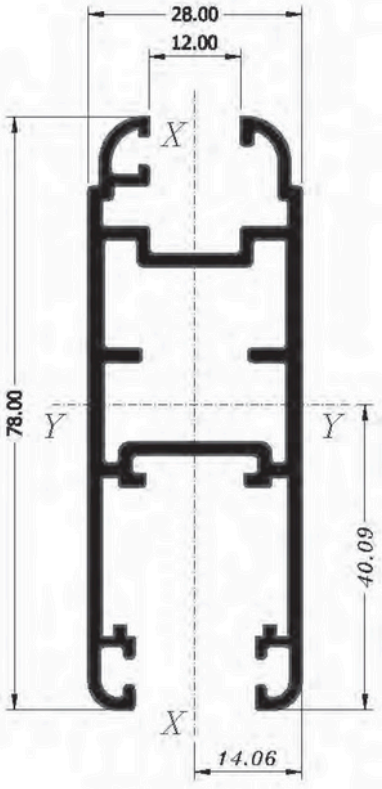
1.060 Kg./ml.



2 060 4613

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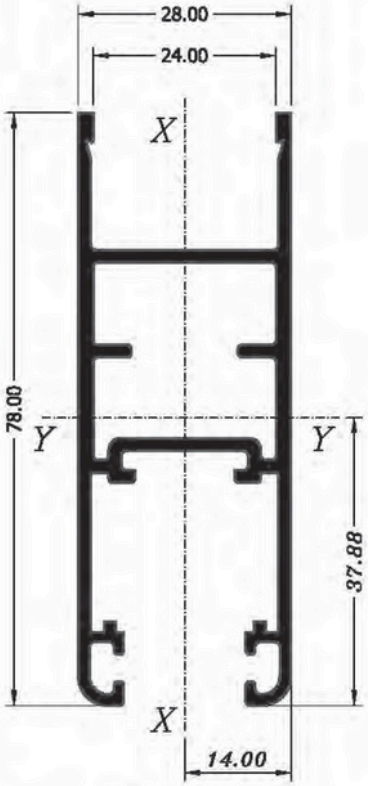
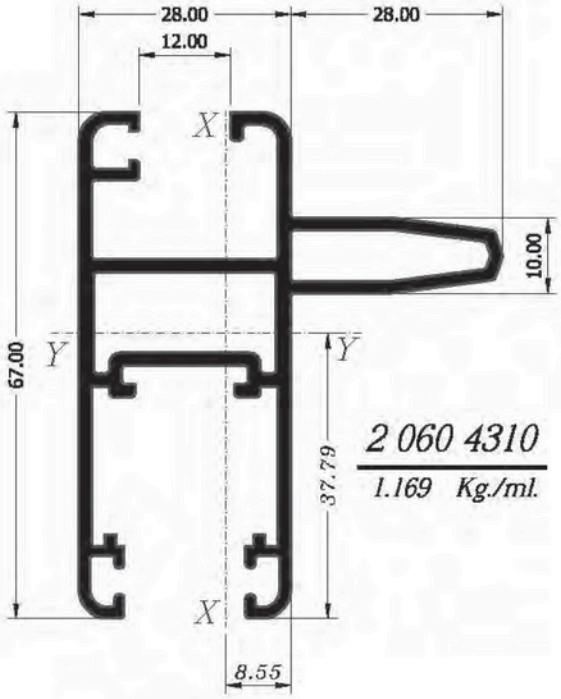


2 060 4620

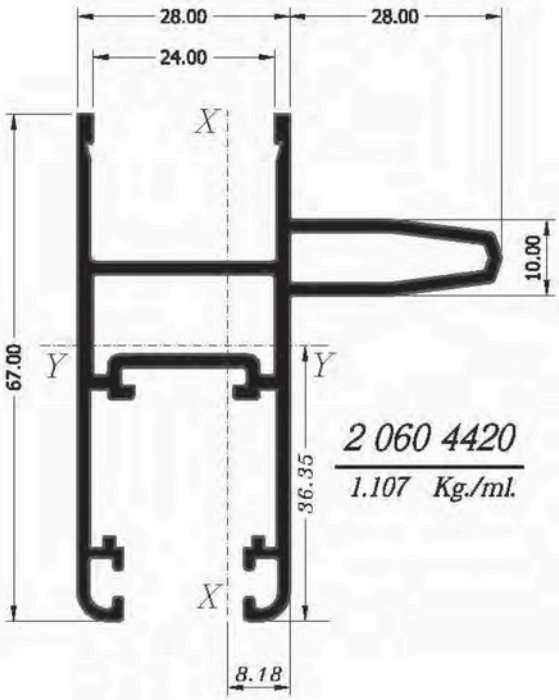
1.000 Kg./ml.

Profile No.	2 060 4110	2 060 4113	2 060 4220
Profile Old No.	TG 6040	TG 6040.3	TG 6042



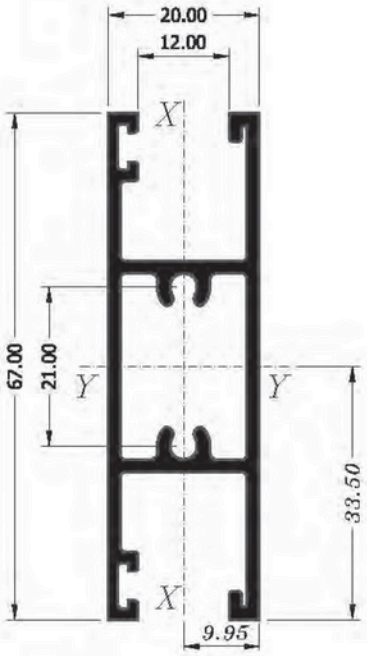
2 060 4310

1.169 Kg./ml.



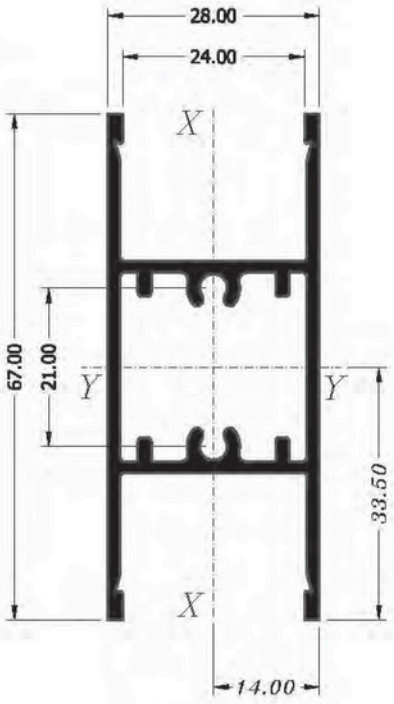
2 060 4420

1.107 Kg./ml.



2 060 5110

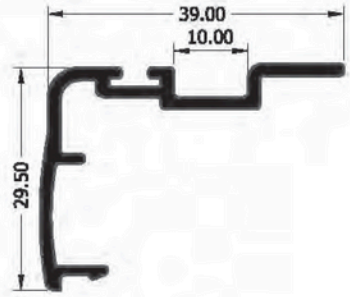
0.813 Kg./ml.



2 060 5220

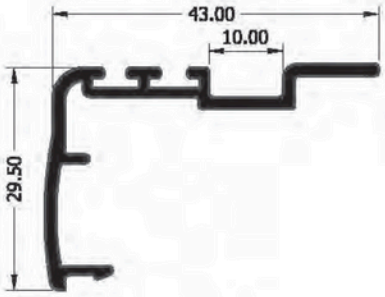
0.861 Kg./ml.

Profile No.	2 060 4310	2 060 4420	2 060 5110	2 060 5220
Profile Old No.	TG 6040.1	TG 6042.1	TG 6072	TG 6072



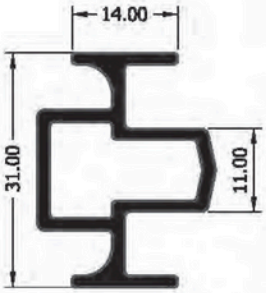
2 060 9510

0.316 Kg./ml.



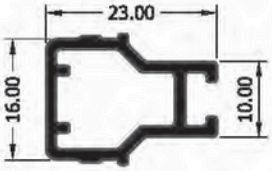
2 060 9520

0.358 Kg./ml.



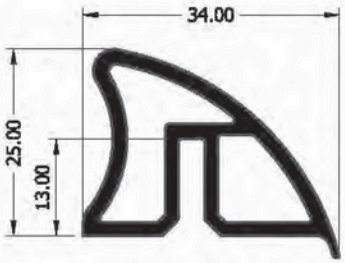
2 060 9610

0.400 Kg./ml.



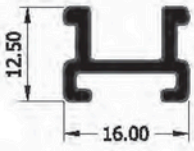
2 060 9620

0.252 Kg./ml.



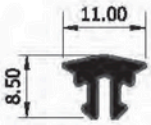
2 060 9710

0.531 Kg./ml.



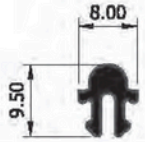
2 060 9910

0.164 Kg./ml.



2 060 9210

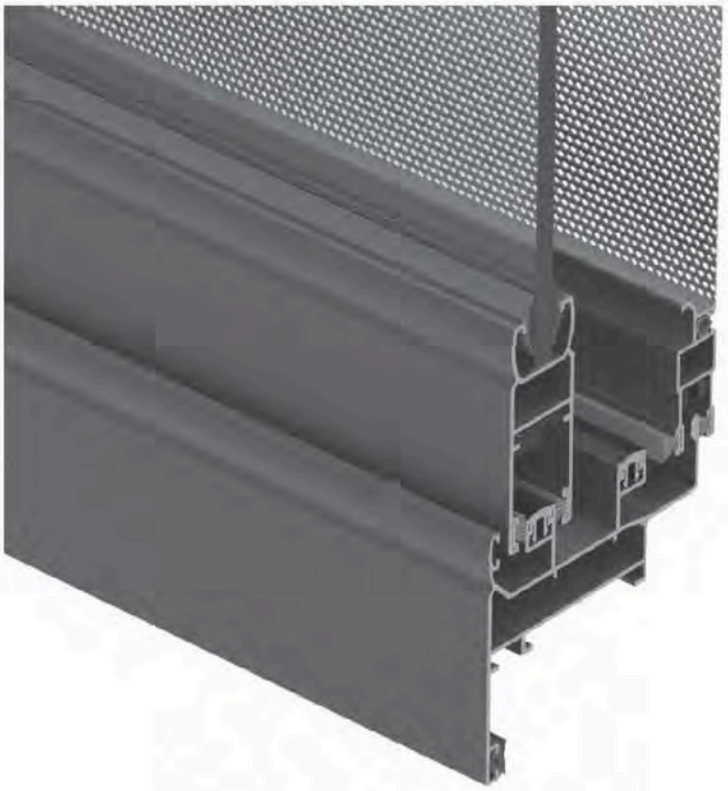
0.102 Kg./ml.



2 060 9220

0.088 Kg./ml.

Profile No.	2 060 9210	2 060 9510	2 060 9610	2 060 9710	2 060 9910
Profile Old No.	TG 6091	TG 6050	TG 6095	TG 6055	TG 6090



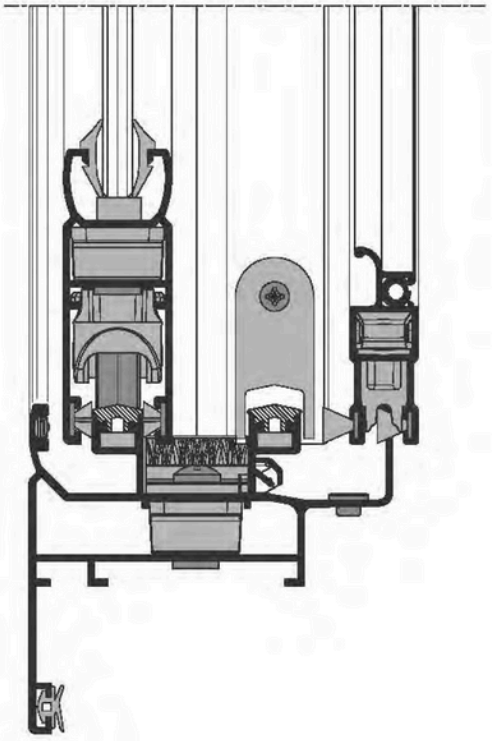
NANO 55

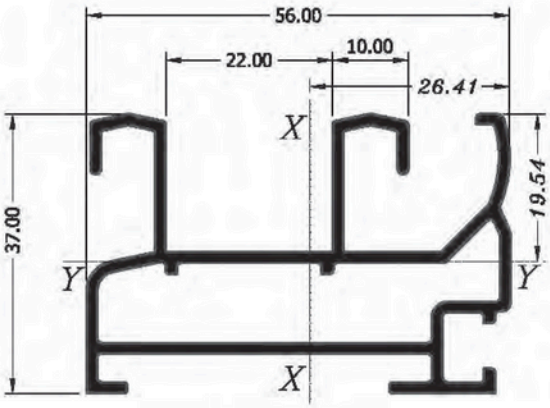
Sliding System

- Ideal solution for small to medium windows for economic residential buildings.
- Offers an extensive range of profiles for the construction of elegant and moderately priced aluminium frames in functional style.
- Offering a very competitive solution.
- Available in the double or triple track design, structures with up to six leaves.
- Most of the accessories can be adjusted and fixed with set screws.

Technical Characteristics

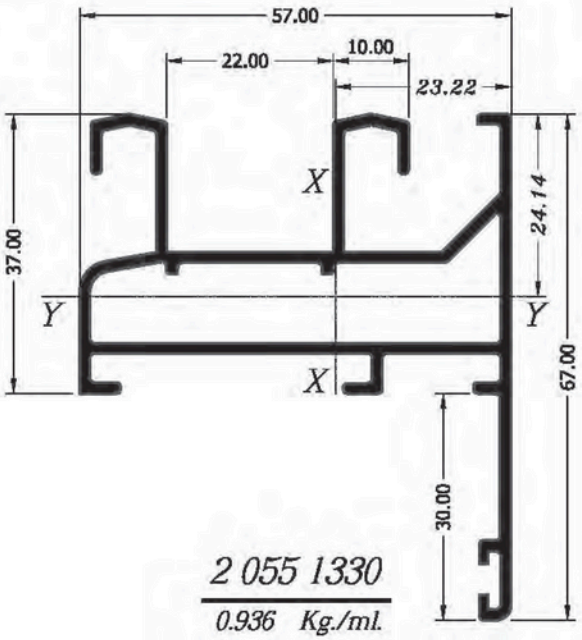
Frame	Depth	56 mm. to 125 mm.
	Height	37 mm. to 91 mm.
Sash	Depth	22 mm.
	Height	60 mm.
Max Glass Thickness	Up to 8 mm.	
Max Sash Weight	Up to 60 kg.	
Sealing Type	Perimetrical, with two rows of high-density brushes	





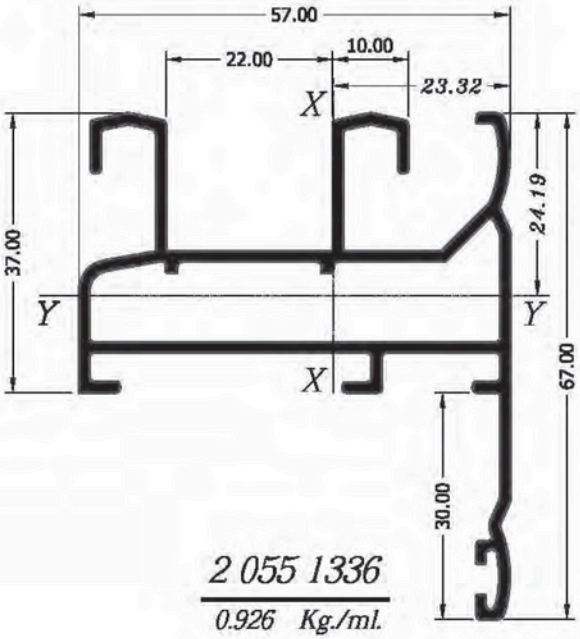
2 055 1310

0.816 Kg./ml.



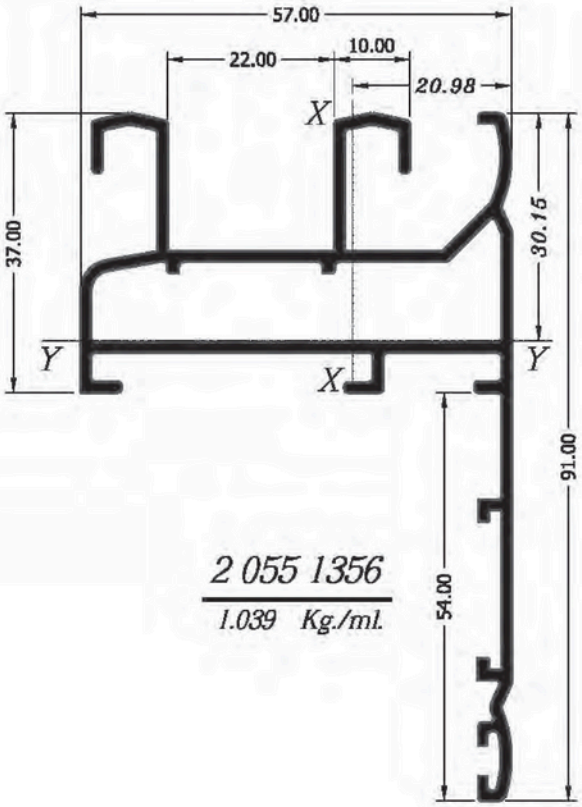
2 055 1330

0.936 Kg./ml.



2 055 1336

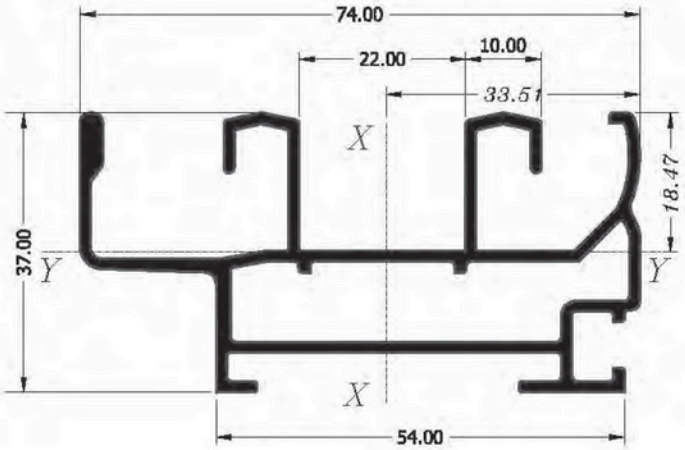
0.926 Kg./ml.



2 055 1356

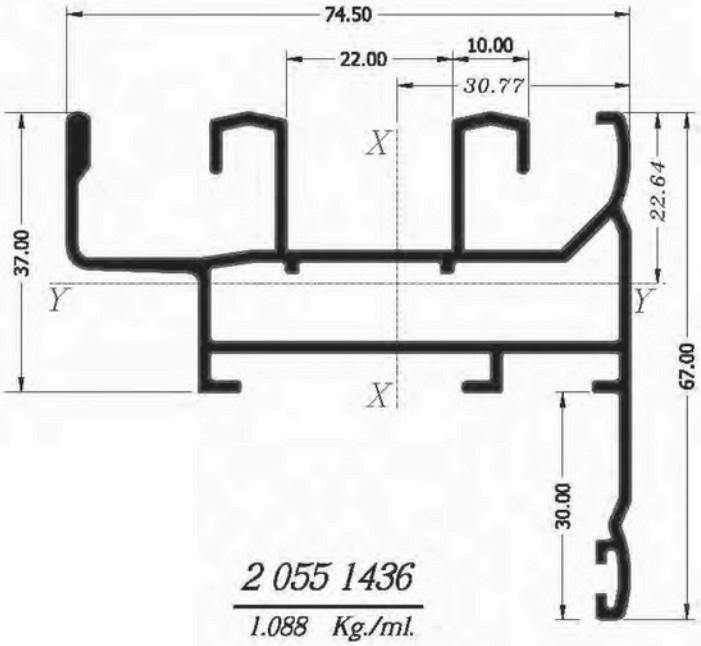
1.039 Kg./ml.

Profile No.	*2 055 1336*
Profile Old No.	*N 5522.6*



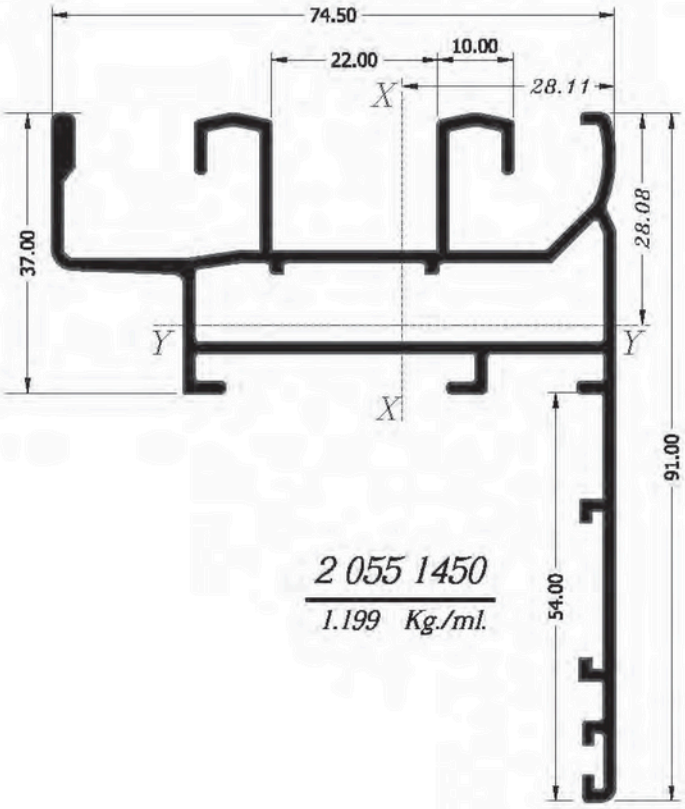
2 055 1410

0.971 Kg./ml.



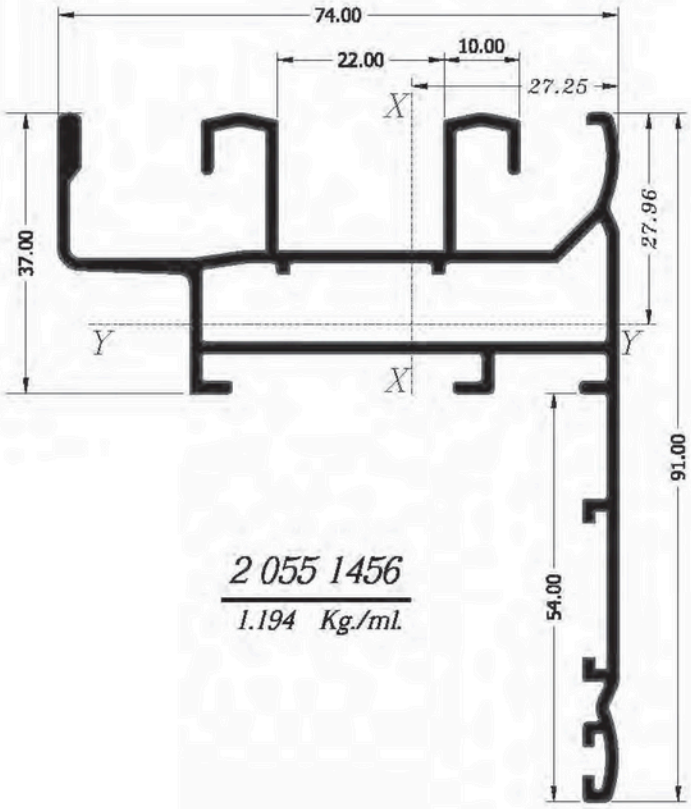
2 055 1436

1.088 Kg./ml.



2 055 1450

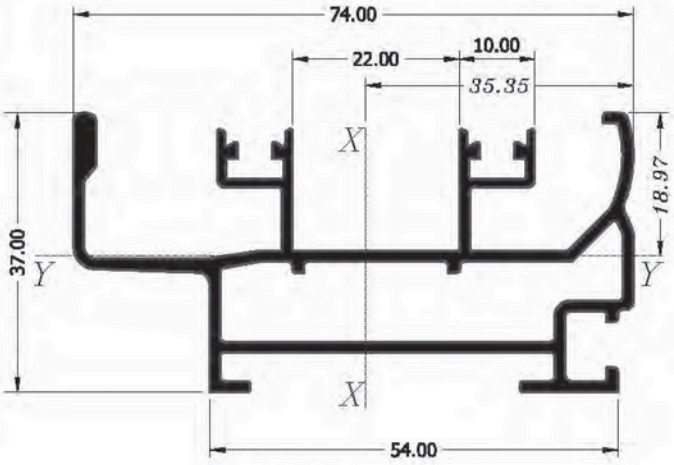
1.199 Kg./ml.



2 055 1456

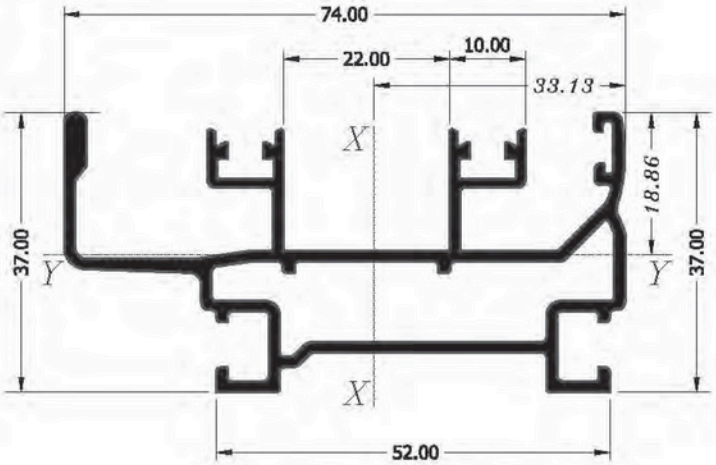
1.194 Kg./ml.

Profile No.	*2 055 1456*
Profile Old No.	*N 5526.6*



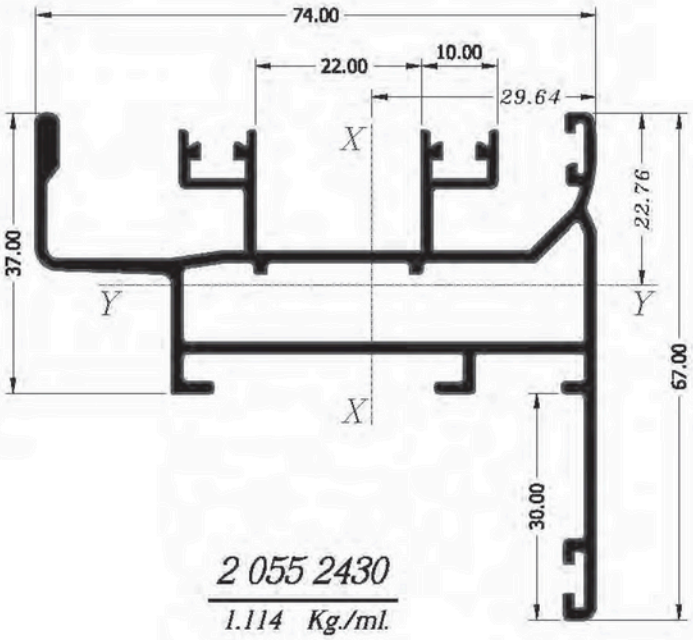
2 055 2410

0.978 Kg./ml.



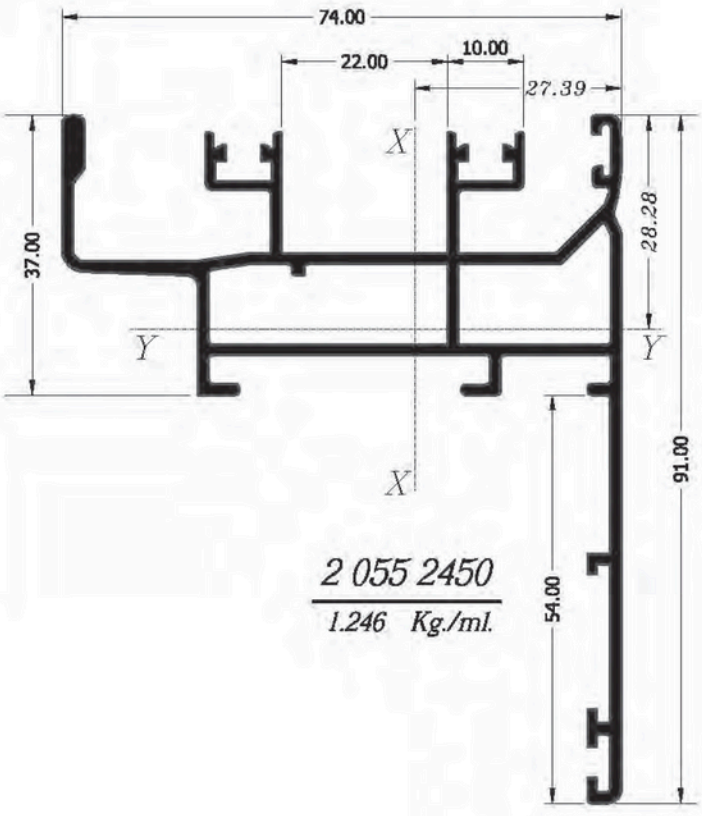
2 055 2420

1.038 Kg./ml.



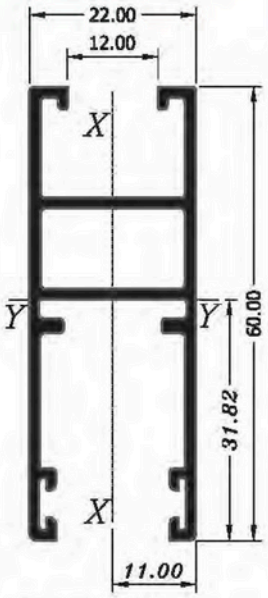
2 055 2430

1.114 Kg./ml.



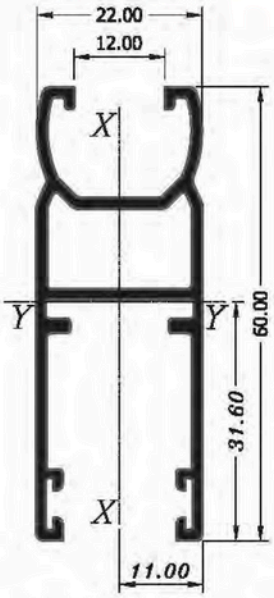
2 055 2450

1.246 Kg./ml.



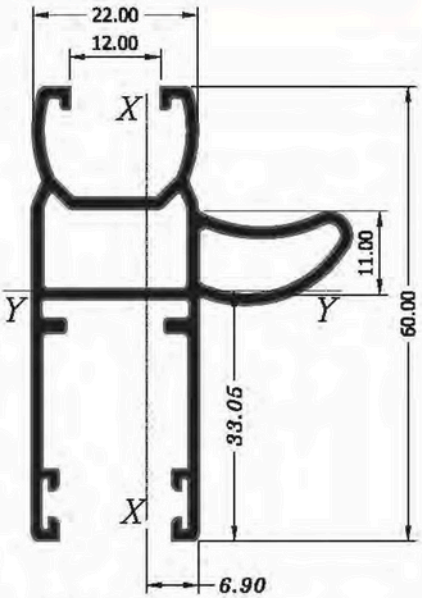
2 055 4210

0.608 Kg./ml.



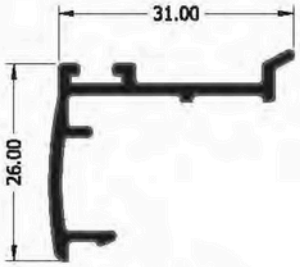
2 055 4216

0.600 Kg./ml.



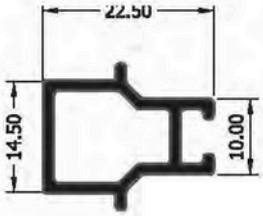
2 055 4416

0.745 Kg./ml.



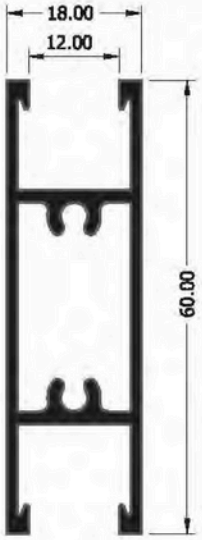
2 055 9510

0.254 Kg./ml.



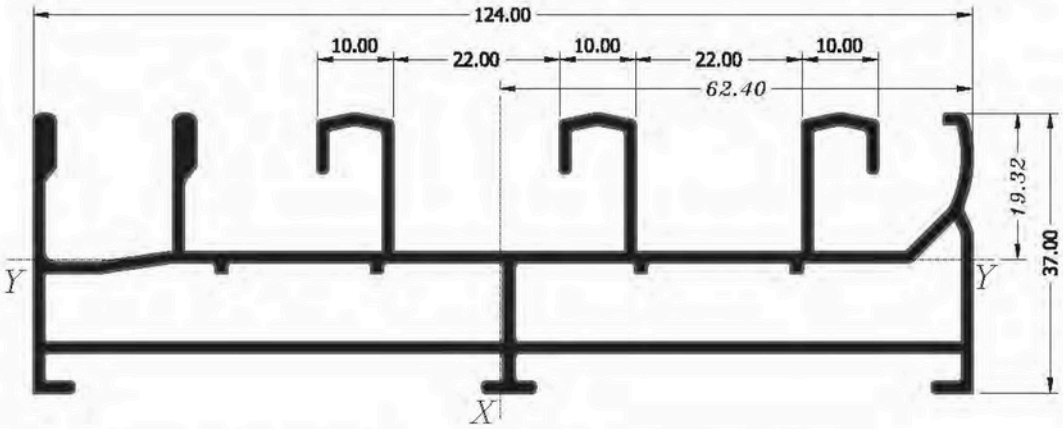
2 055 9610

0.232 Kg./ml.



2 055 5210

0.628 Kg./ml.



2 055 1900

1.607 Kg./ml.

Profile No.	2 055 4216	2 055 9510	2 055 9610
Profile Old No.	N 5540.6	N 5550	N 5595

PANORAMA 62

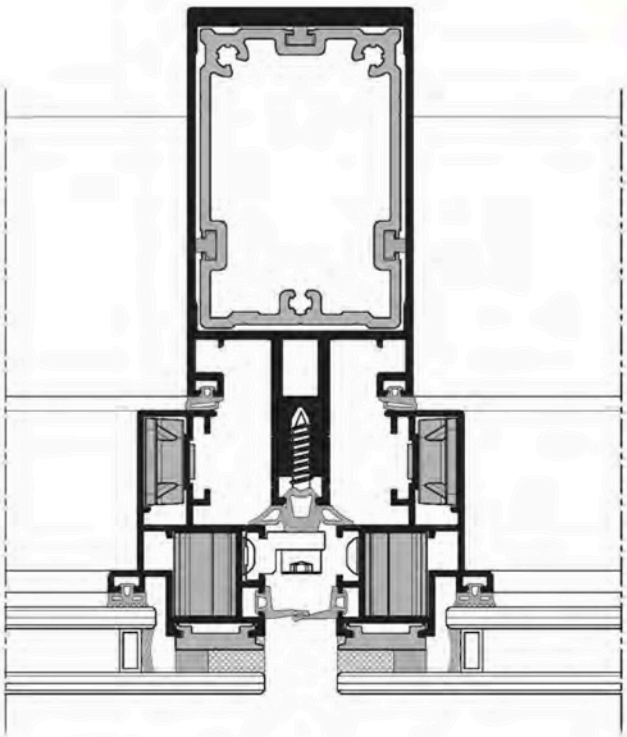
Curtain Wall System

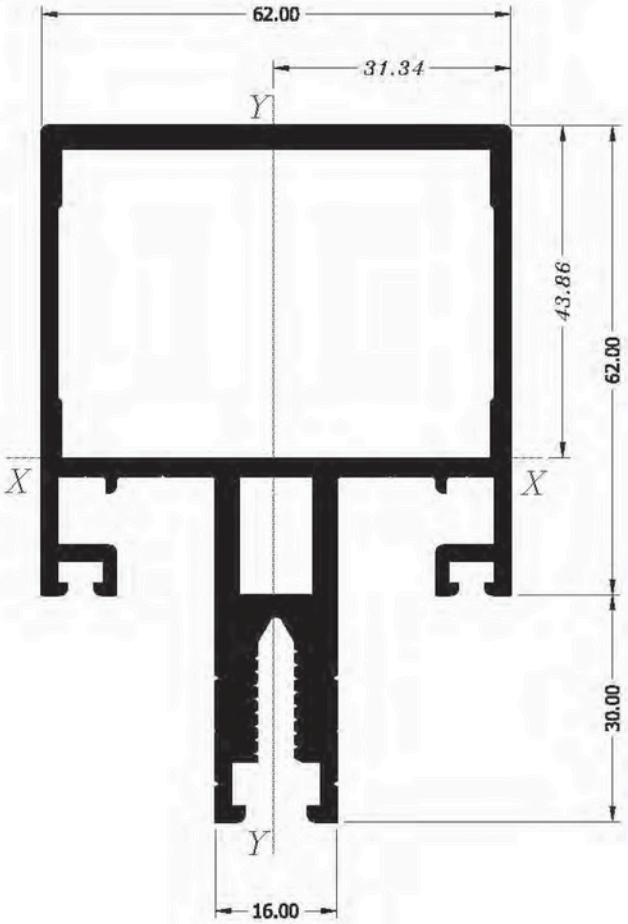


- Wide variety of profiles (mullions and transoms) with different dimensions and moment of inertia to fulfill the structural requirements.
- Available in 3 different glazing appearances, conventional curtain wall, full structural glazing and semi structural glazing (same appearance for fixed and opening panels internally & externally).
- Improved statical values due to inserted standard steel or aluminum profiles.
- unique transom connector for gapless.

Technical Characteristics

Mullion	Depth	62 mm.
	Height	92 mm. to 187 mm.
Transoms	Depth	62 mm.
	Height	77 mm. to 122 mm.
Max Sash Weight (top hung)	130 kg.	



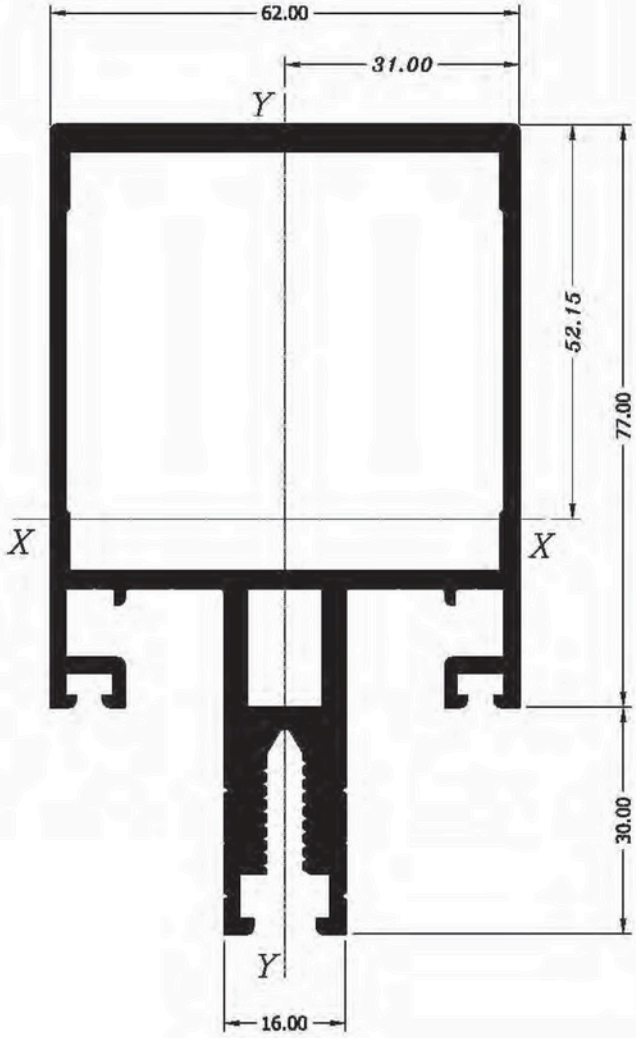


3 062 1206

2.741 Kg./ml.

I_x = 75.89 Cm^4

I_y = 36.81 Cm^4



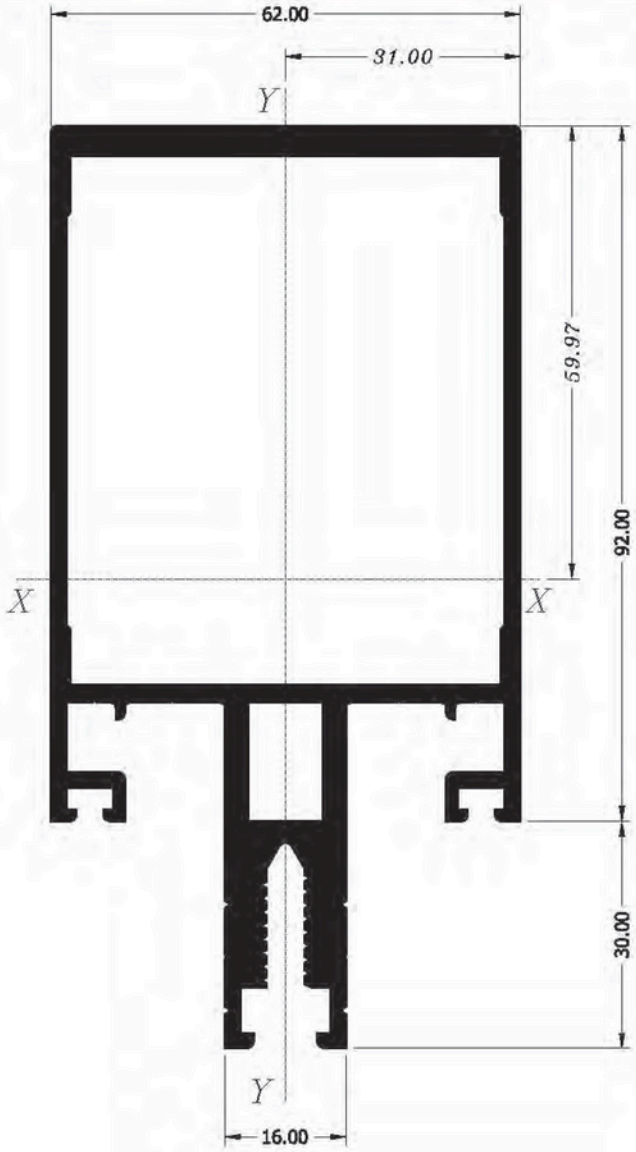
3 062 1207

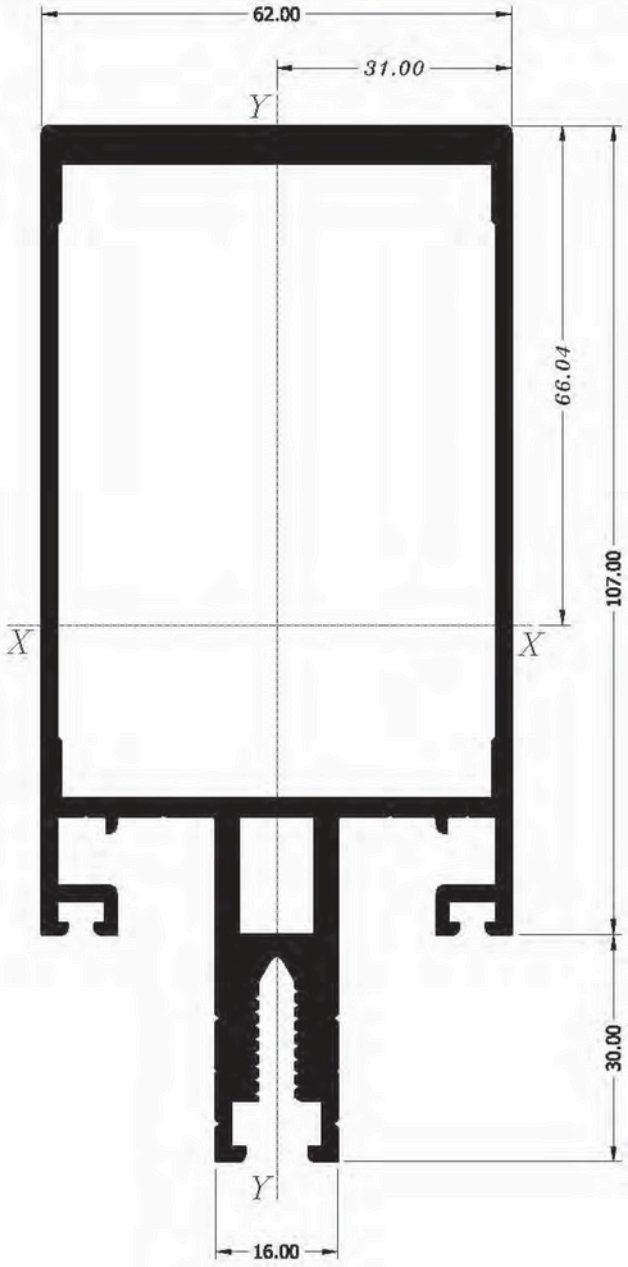
2.981 Kg./ml.

I_x = 122.79 Cm^4

I_y = 43.02 Cm^4

Profile No.	3 062 1206	3 062 1207
Profile Old No.	CW 6215	CW 6216





3 062 1209

3.221 Kg./ml.

$I_x = 186.11$ Cm^4

$I_y = 49.24$ Cm^4

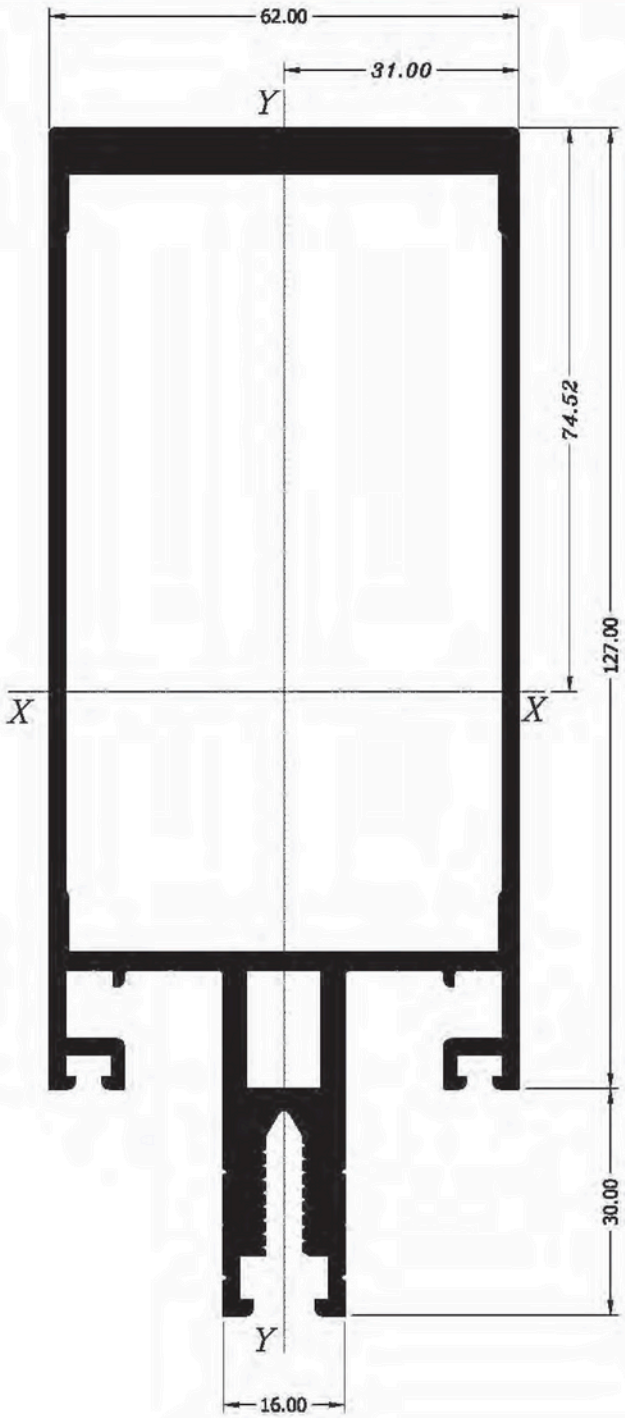
3 062 1210

3.540 Kg./ml.

$I_x = 278.60$ Cm^4

$I_y = 56.27$ Cm^4

Profile No.	3 062 1209	3 062 1210
Profile Old No.	CW 6217	CW 6218



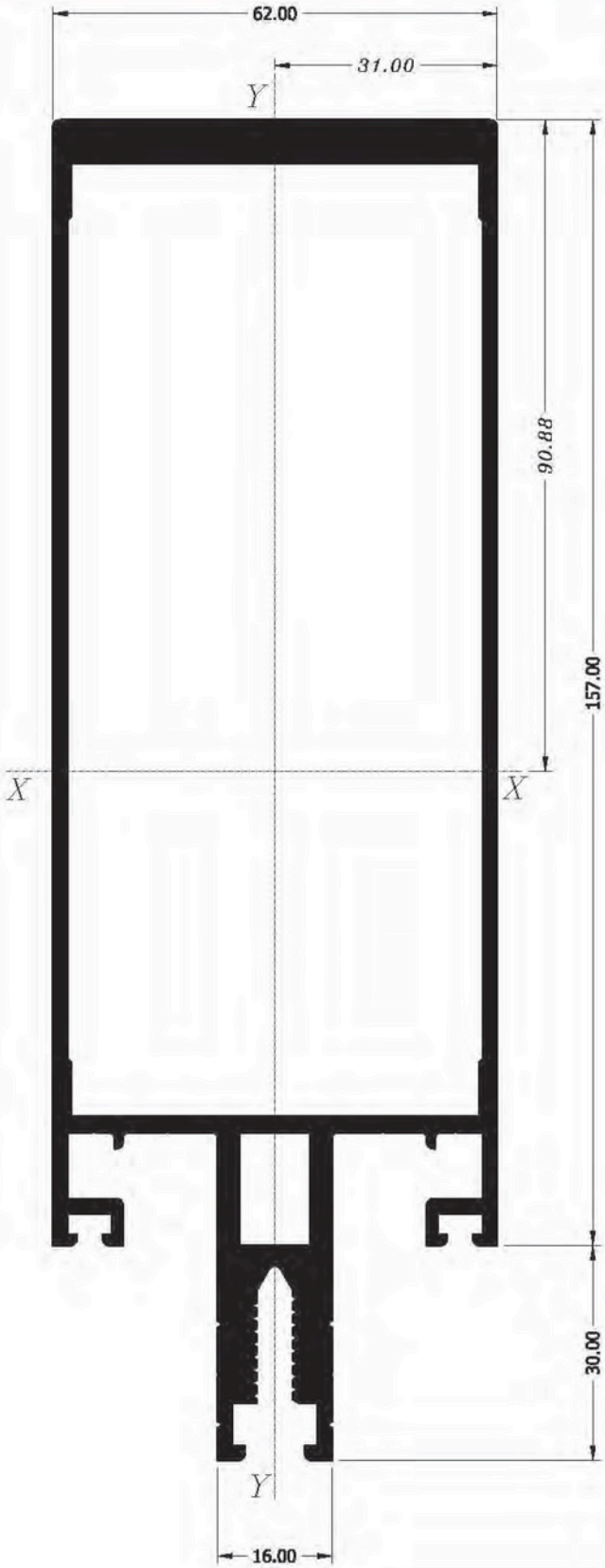
3 062 1212

3.910 Kg./ml.

$I_x = 430.69$ Cm^4

$I_y = 65.10$ Cm^4

Profile No.	3 062 1212
Profile Old No.	CW 6219

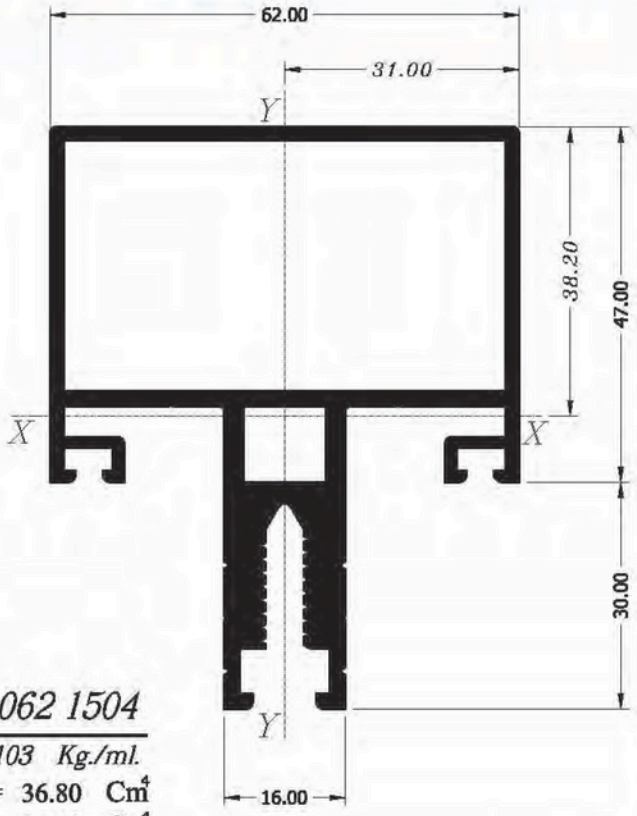


3 062 1215

4.253 Kg./ml.

$I_x = 682.70$ Cm^4

$I_y = 75.91$ Cm^4

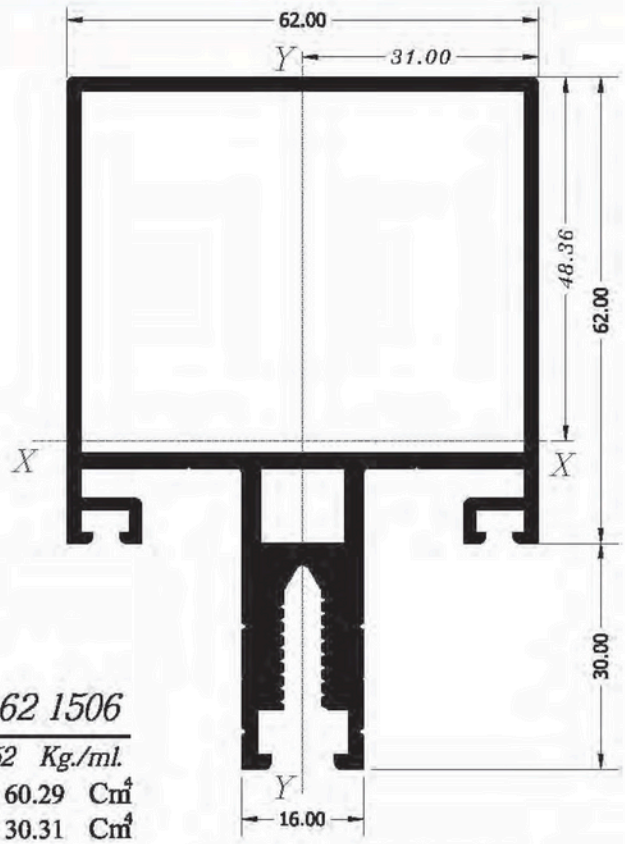


3 062 1504

2.103 Kg./ml.

I_x = 36.80 Cm^4

I_y = 25.42 Cm^4

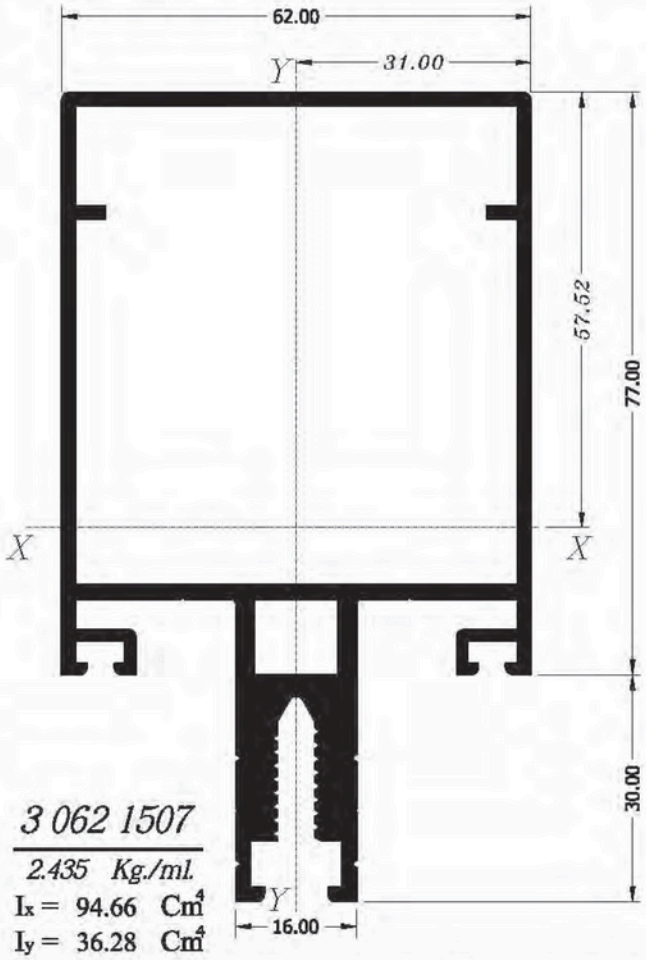


3 062 1506

2.252 Kg./ml.

I_x = 60.29 Cm^4

I_y = 30.31 Cm^4

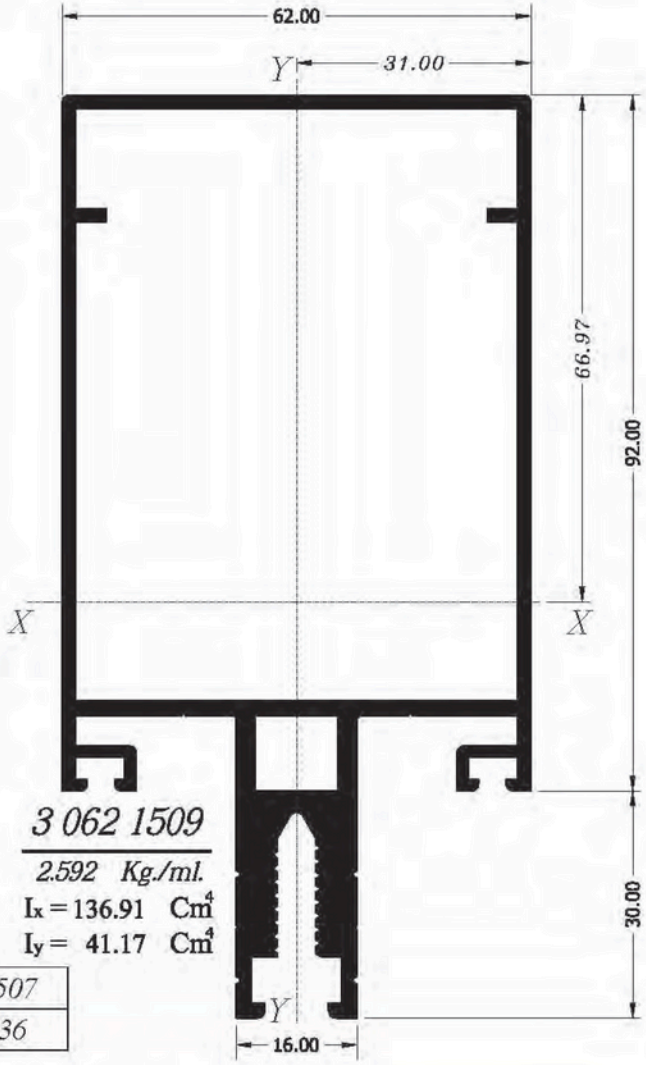


3 062 1507

2.435 Kg./ml.

I_x = 94.66 Cm^4

I_y = 36.28 Cm^4



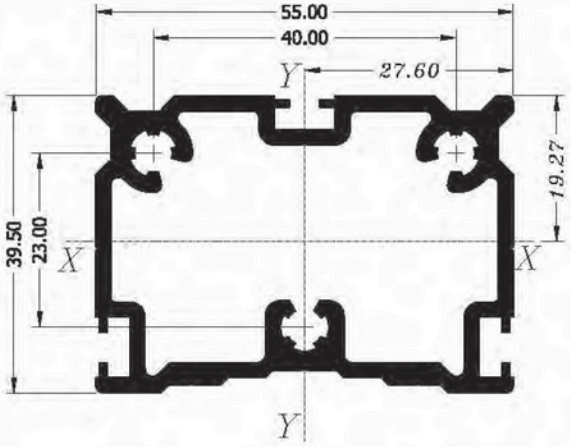
3 062 1509

2.592 Kg./ml.

I_x = 136.91 Cm^4

I_y = 41.17 Cm^4

Profile No.	3 062 1504	3 062 1506	3 062 1507
Profile Old No.	CW 6234	CW 6235	CW 6236

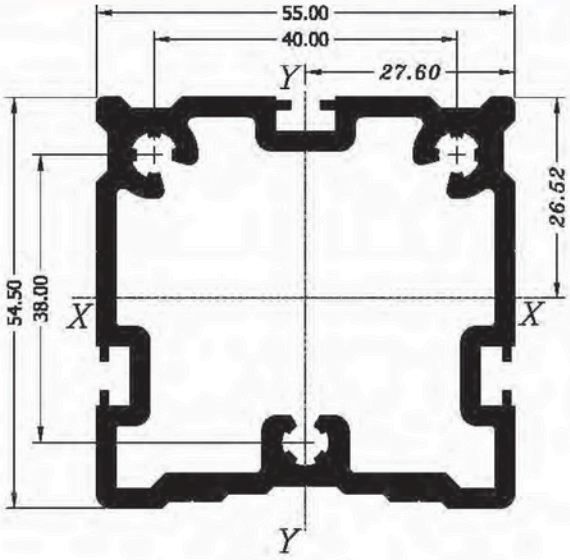


3 062 4006

1.469 Kg./ml.

I_x = 11.29 Cm^4

I_y = 19.66 Cm^4

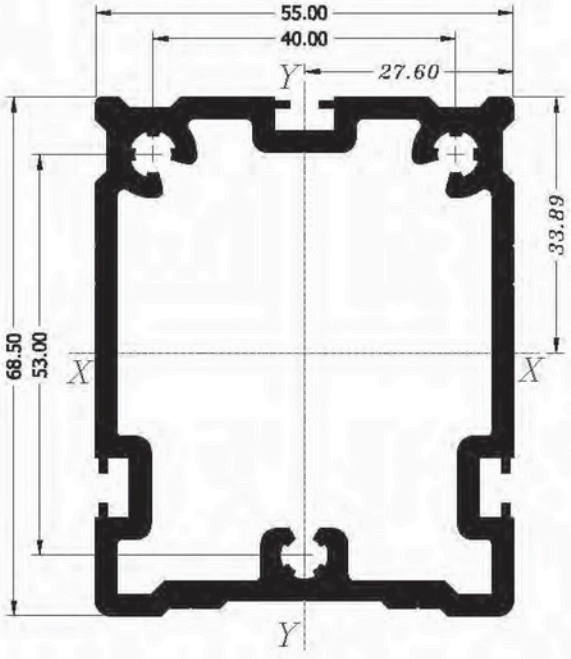


3 062 4007

2.017 Kg./ml.

I_x = 29.71 Cm^4

I_y = 29.63 Cm^4

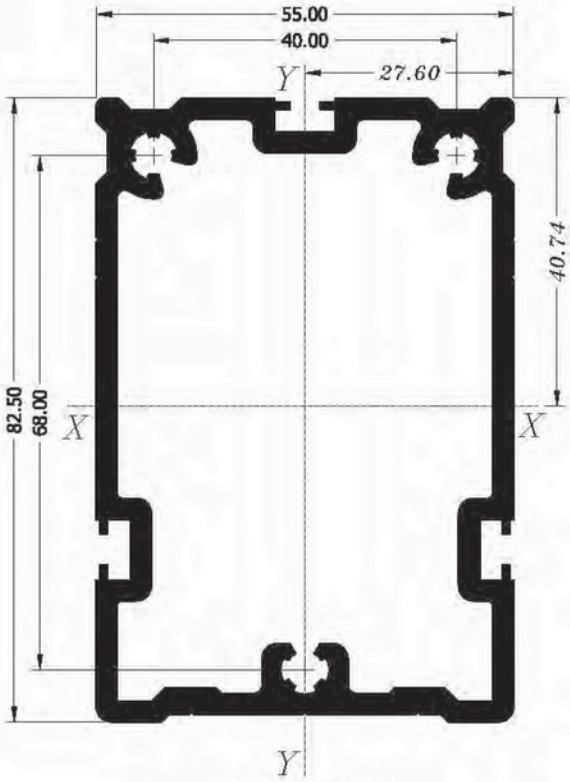


3 062 4009

2.357 Kg./ml.

I_x = 56.47 Cm^4

I_y = 36.99 Cm^4



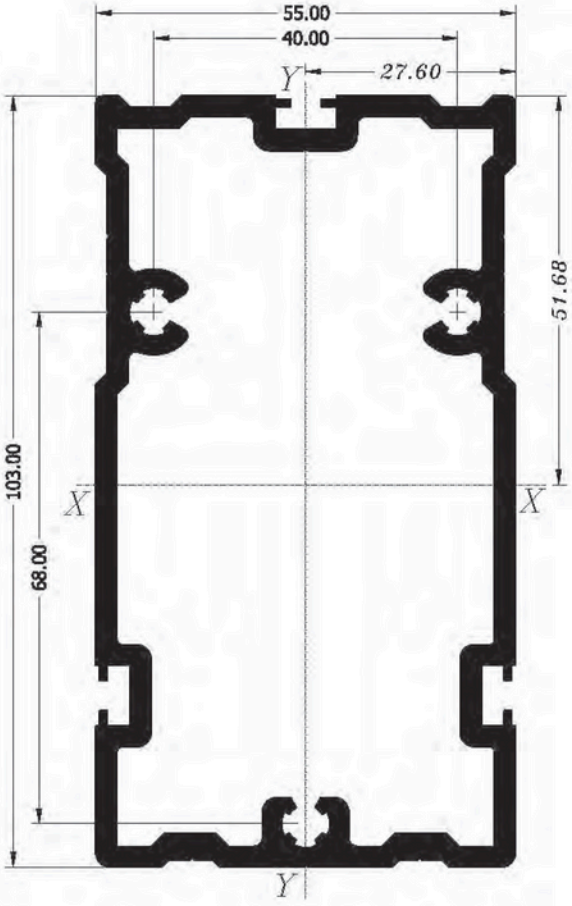
3 062 4010

2.570 Kg./ml.

I_x = 88.91 Cm^4

I_y = 42.35 Cm^4

Profile No.	3 062 4006	3 062 4007	3 062 4009	3 062 4010
Profile Old No.	CW 6285	CW 6286	CW 6287	CW 6288

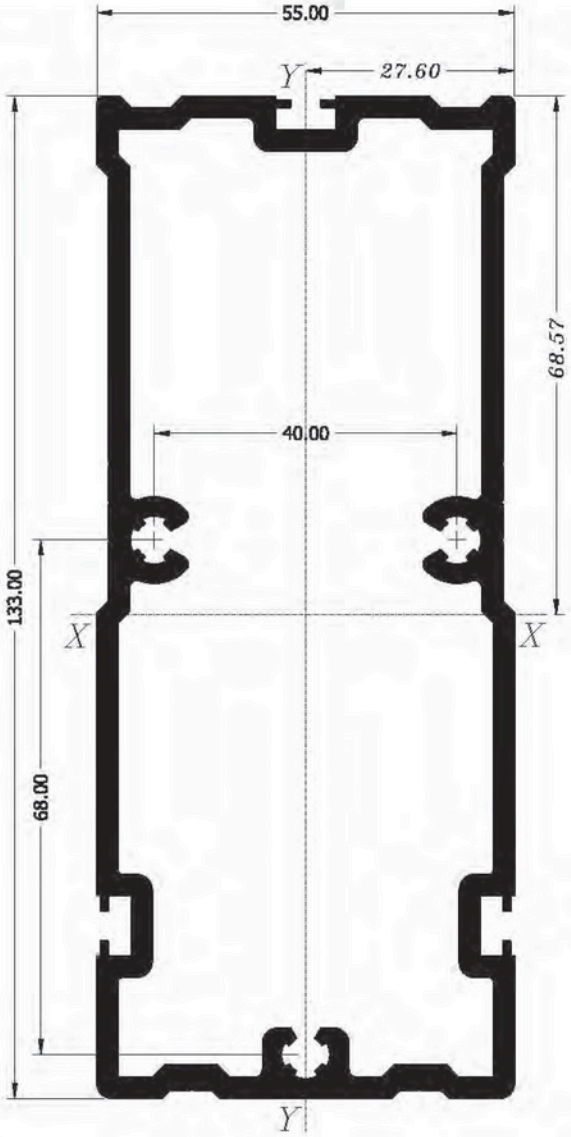


3 062 4012

2.965 Kg./ml.

$I_x = 146.78$ Cm^4

$I_y = 50.70$ Cm^4



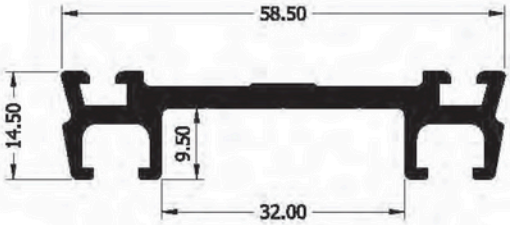
3 062 4015

3.431 Kg./ml.

$I_x = 268.26$ Cm^4

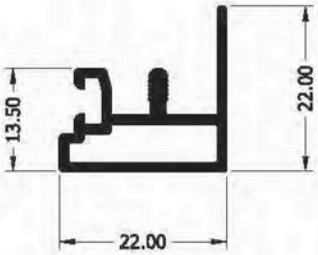
$I_y = 60.96$ Cm^4

Profile No.	*3 062 4012*
Profile Old No.	*CW 6289*



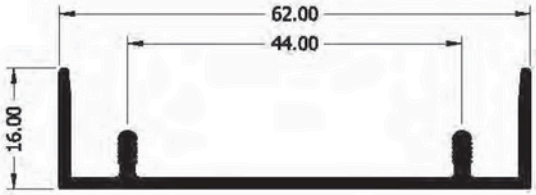
3 062 5011

0.719 Kg./ml.



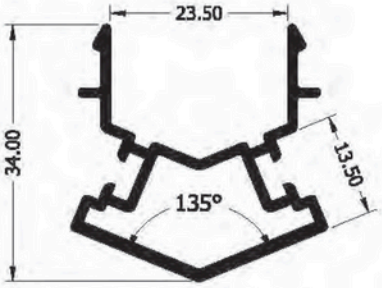
3 062 5272

0.296 Kg./ml.



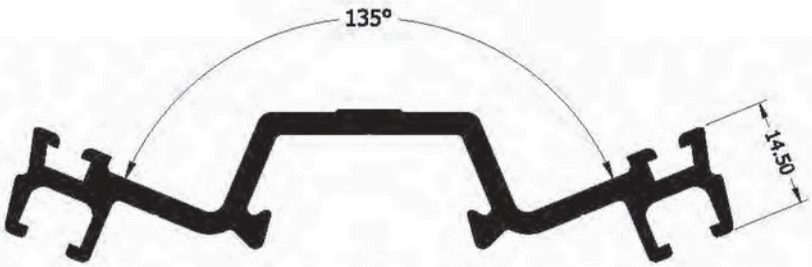
3 062 5251

0.436 Kg./ml.



3 062 5426

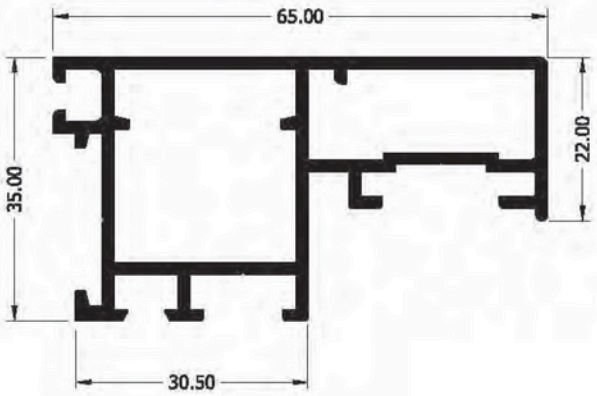
0.487 Kg./ml.



3 062 5121

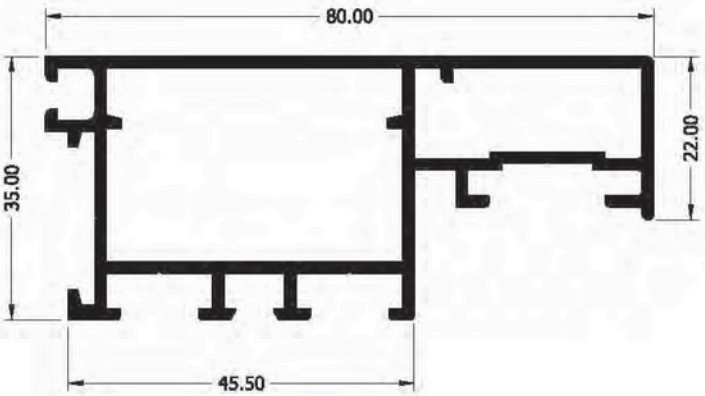
1.196 Kg./ml.

Profile No.	3 062 5011	3 062 5121	3 062 5272	3 062 5426
Profile Old No.	CW 6221	CW 6222	CW 6224	CW 6229



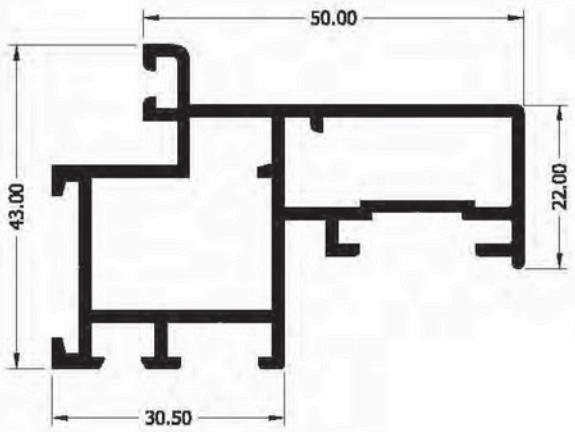
3 062 6417

1.040 Kg./ml.



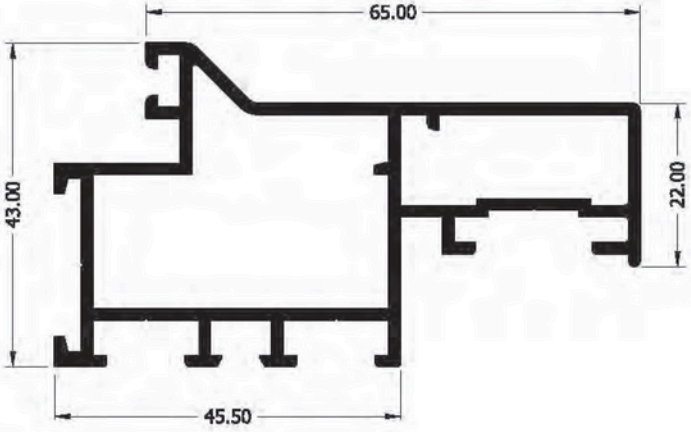
3 062 6419

1.204 Kg./ml.



3 062 6427

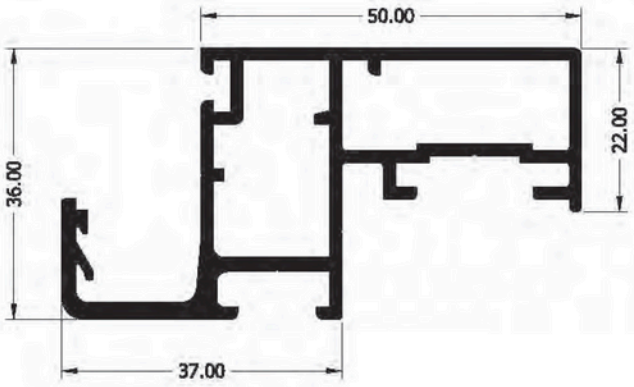
1.064 Kg./ml.



3 062 6429

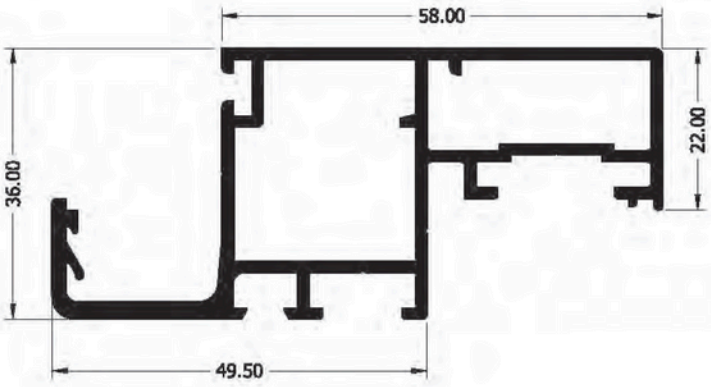
1.238 Kg./ml.

Profile No.	3 062 6417	3 062 6419	3 062 6427	3 062 6429
Profile Old No.	CW 6243	CW 6245	CW 6244	CW 6246



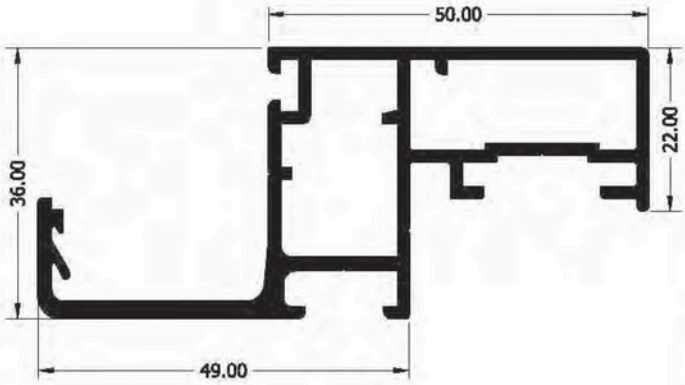
3 062 6436

1.102 Kg./ml.



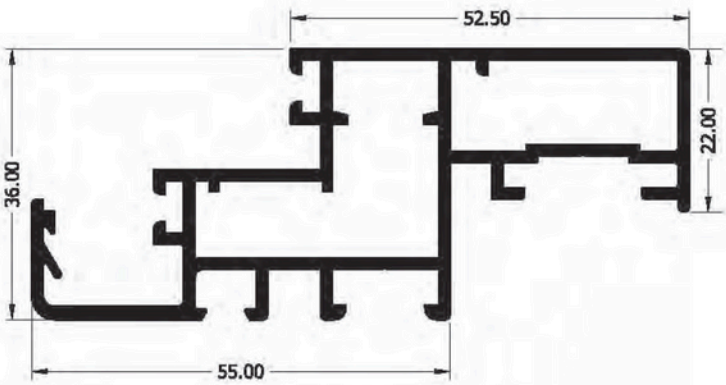
3 062 6437

1.210 Kg./ml.



3 062 6447

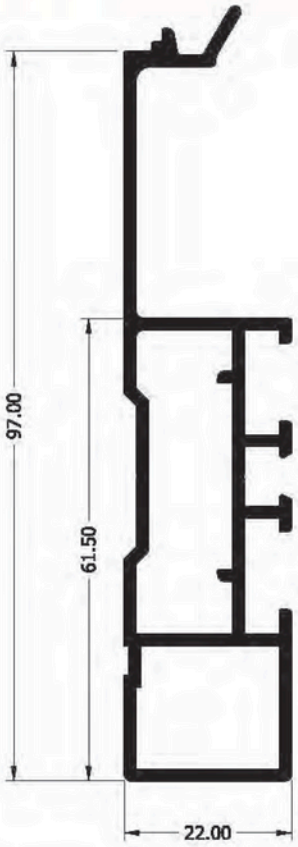
1.185 Kg./ml.



3 062 6488

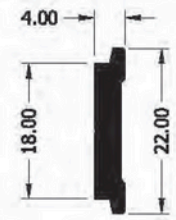
1.320 Kg./ml.

Profile No.	3 062 6436	3 062 6447	3 062 6488
Profile Old No.	CW 6253	CW 6254	CW 6256



3 062 9169

1.088 Kg./ml.



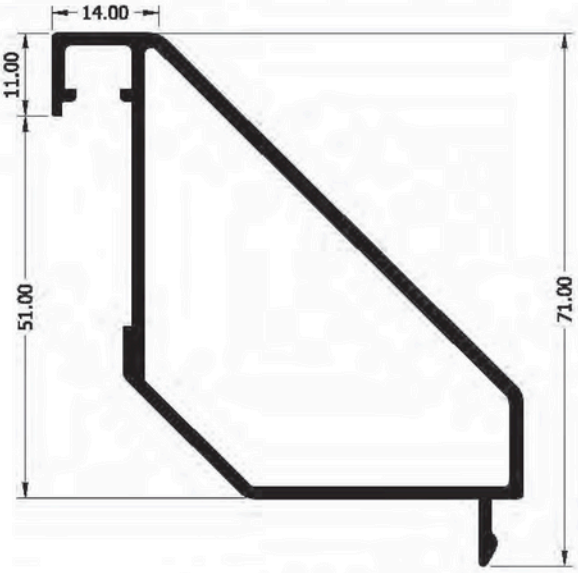
3 062 9700

0.194 Kg./ml.



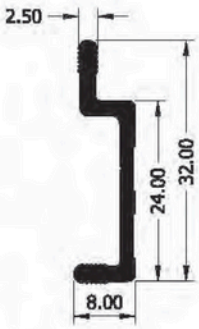
3 062 9703

0.305 Kg./ml.



3 062 9826

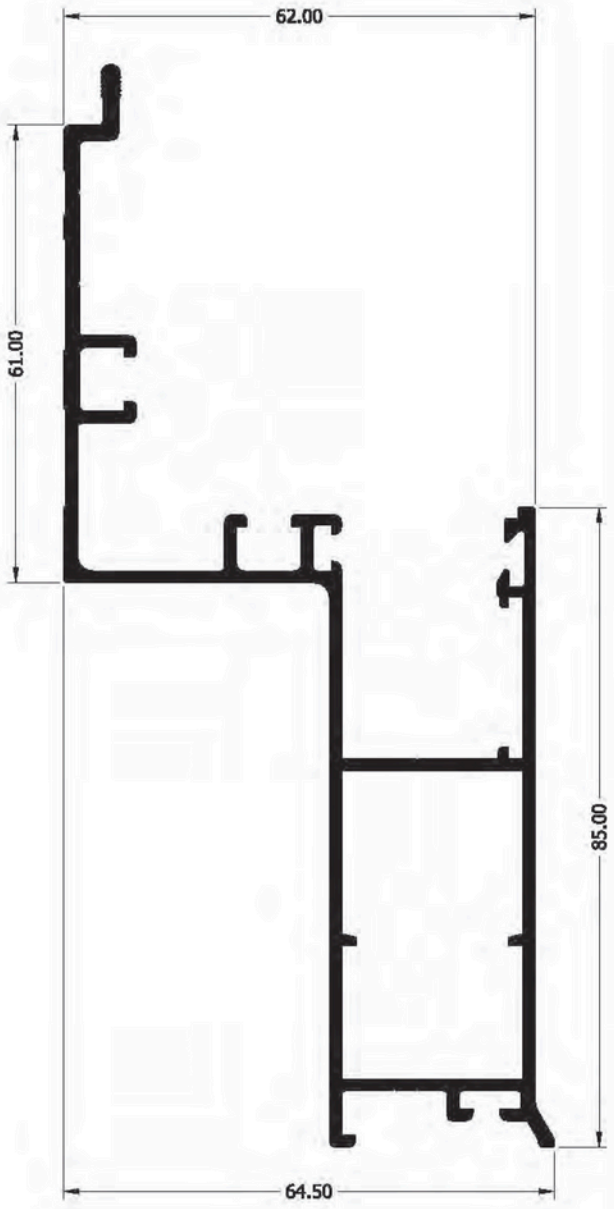
0.943 Kg./ml.



3 062 4612

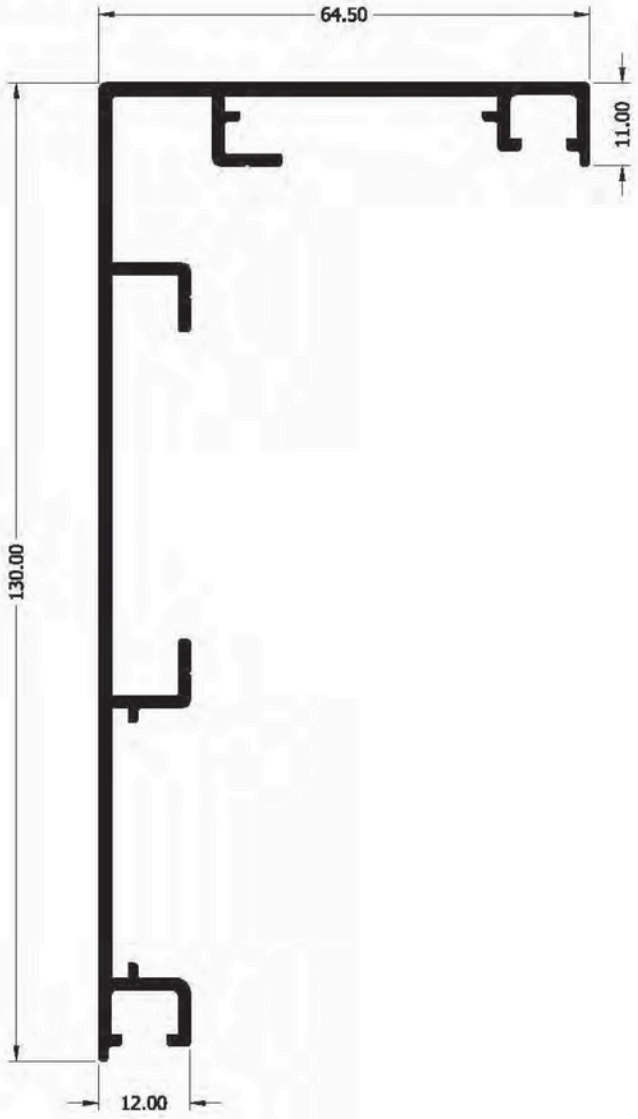
0.227 Kg./ml.

Profile No.	3 062 4612	3 062 9169	3 062 9700	3 062 9703	3 062 9826
Profile Old No.	CW 6291	CW 6276	CW 6270	CW 6271	CW 6294



3 062 9816

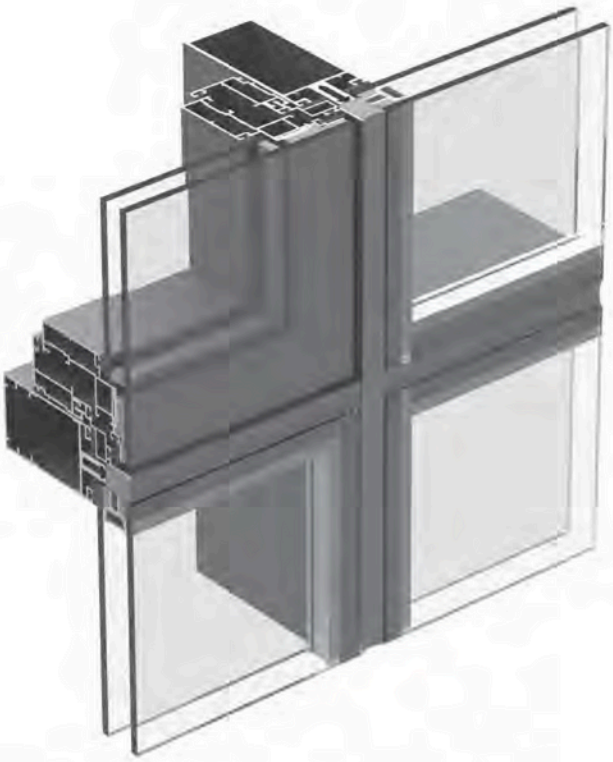
1.617 Kg./ml.



3 062 9246

1.269 Kg./ml.

Profile No.	3 062 9246	3 062 9816
Profile Old No.	CW 6292	CW 6293



PANORAMA 52

Curtain Wall System

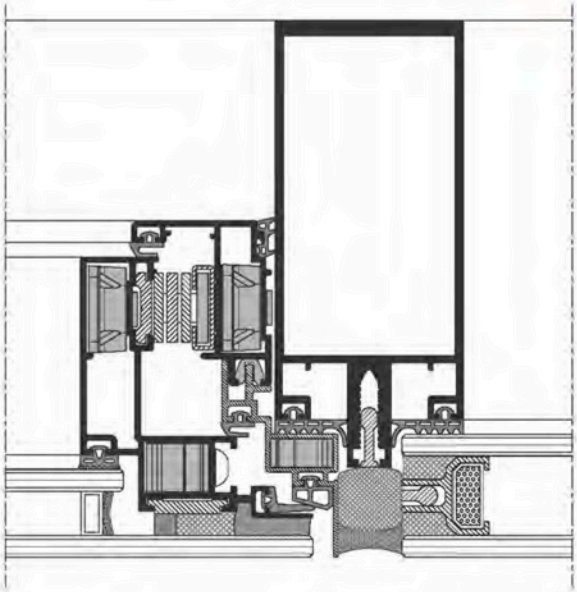
- Available in 3 different glazing appearances, conventional curtain wall, full structural glazing and 2 way structural glazing.
- Integrated with different types of windows and entrance doors (inward – outward opening), including projection top hung/ parallel opening type.
- Allow same profile for mullion and transom (option).
- Controlled drainage system via a special transom gasket.
- Allow mullion and transom connections with or without notching of mullion or transom.

Technical Characteristics

Mullion	Depth	52 mm.
	Height	85 mm. to 245 mm.
Transoms	Depth	52 mm.
	Height	45 mm. to 135 mm.
Max Sash Weight (top hung)	130 kg.	

Complies with European norm EN 13830

Air Permability	(Class AE750)
Water Tightness	(Class RE900) up to 900 pa.
Resistance to wind load	up to 2000 pa.
Impact Resistance	(Class I5/E5)
UF values	1.8 to 3.3 W/m²K DIN EN ISO 10077-2



IRCCOS S.r.l.
Istituto di Ricerca e Certificazione per le Costruzioni Sostenibili
Notified Body No. 1994 in accordance with Regulation CPR (UE) No. 305/2011

CERTIFICATE

n. 0070/2019

The laboratory **IRCCOS S.r.l.**

declares that:

the product constituted by an Aluminium Curtain Wall
with gaskets between glasses, trade name

"PANORAMA 52 – STRUCTURAL GLAZING"

Successfully passed the following tests with the reported classes:

Air Permeability – positive pressure: class AE750
Air Permeability – negative pressure: class AE750
Watertightness under static pressure: class RE900
Resistance to wind loads – positive pressure: 2000 Pa
Resistance to wind loads – negative pressure: 2000 Pa

according to the following standards:

EN 13830:2015
EN 12153:2000 - EN 12152:2002
EN 12155:2000 - EN 12154:1999
EN 12179:2000 - EN 13116:2001

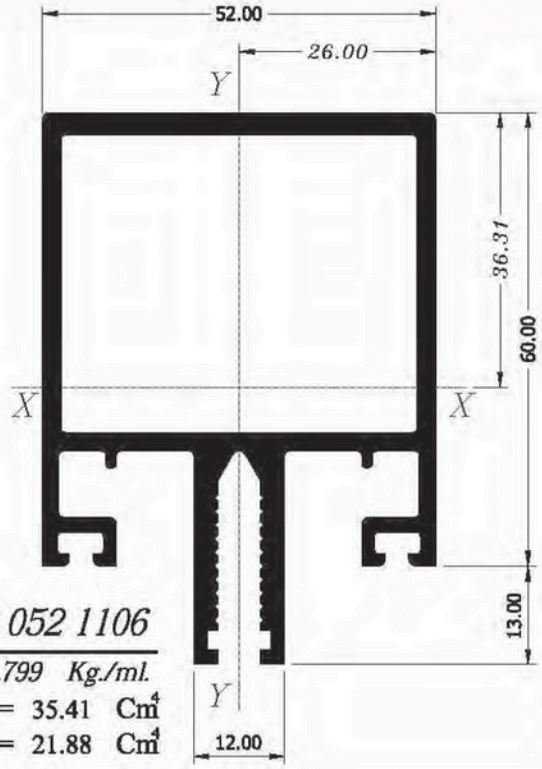
Technical Operator
Stefano Galli

IRCCOS S.r.l.
Istituto di Ricerca e Certificazione
per le Costruzioni Sostenibili
via Grandi n° 17, 21017 Samarate (VA)
C.F./P.IVA 05159630960

2nd August 2019

For complete results see the Test Report No. 0322/RP/19 issued on 2nd August 2019.
The results obtained refer exclusively to the samples tested.

IRCCOS S.r.l. - Via Achille Grandi 17 – 21017 Samarate (VA) - Tel. 0331 594628
Unità operativa secondaria – Via dell'Industria, 6 – 72017 – Ostuni Z.I. (BR)
Cap. Soc. €89.220,80 I.V. - C.F. e P. Iva 05159630960 - R.E.A. VA-351993 - www.irccos.com

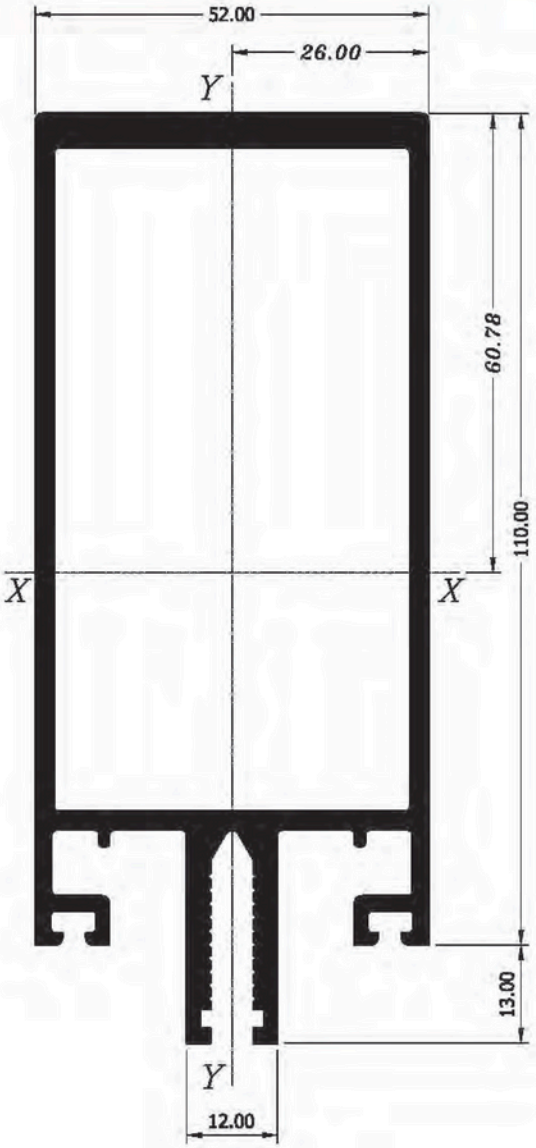


3 052 1106

1.799 Kg./ml.

I_x = 35.41 Cm^4

I_y = 21.88 Cm^4

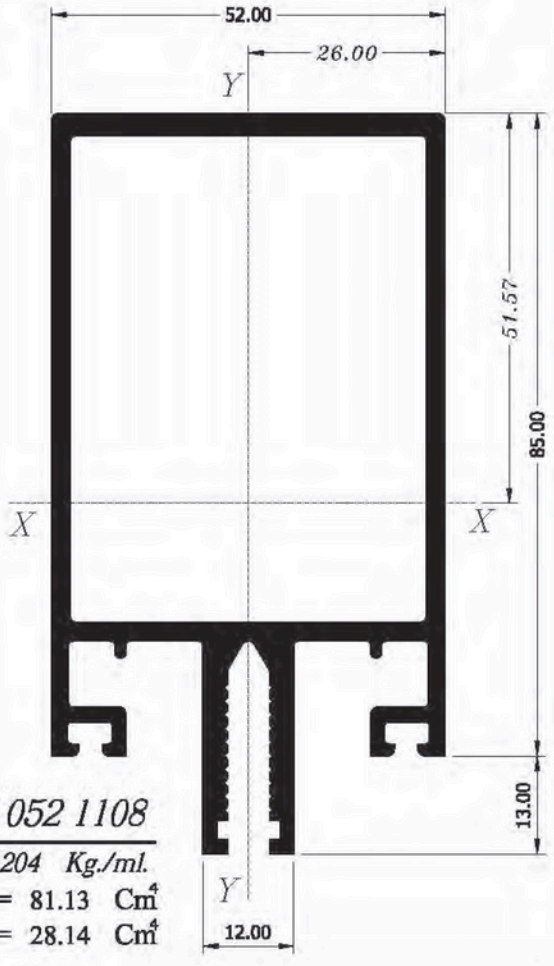


3 052 1111

2.808 Kg./ml.

I_x = 182.52 Cm^4

I_y = 38.52 Cm^4



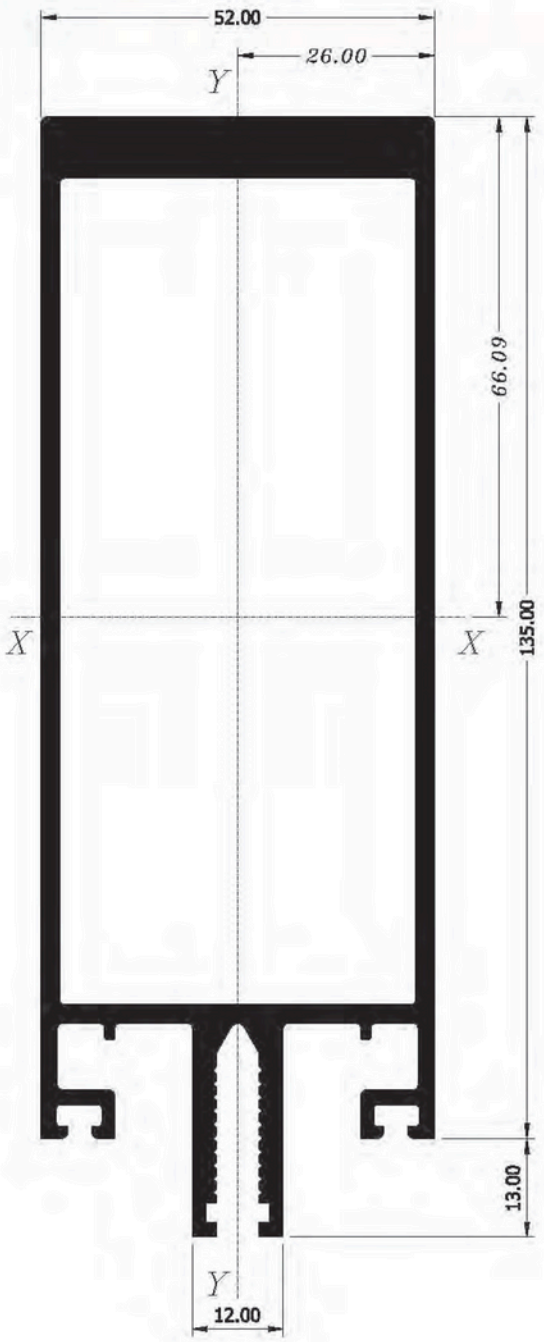
3 052 1108

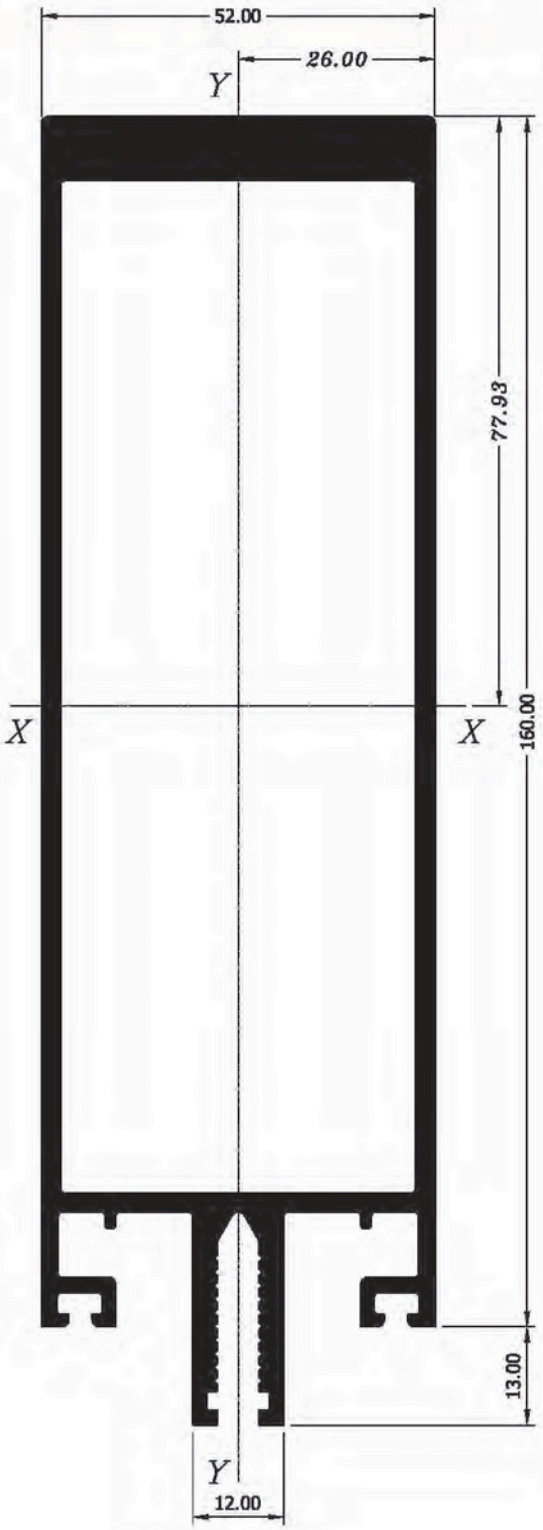
2.204 Kg./ml.

I_x = 81.13 Cm^4

I_y = 28.14 Cm^4

Profile No.	3 052 1108	3 052 1111
Profile Old No.	CW 5206	CW 5207





3 052 1113

3.620 Kg./ml.

$I_x = 372.49$ Cm^4

$I_y = 49.16$ Cm^4

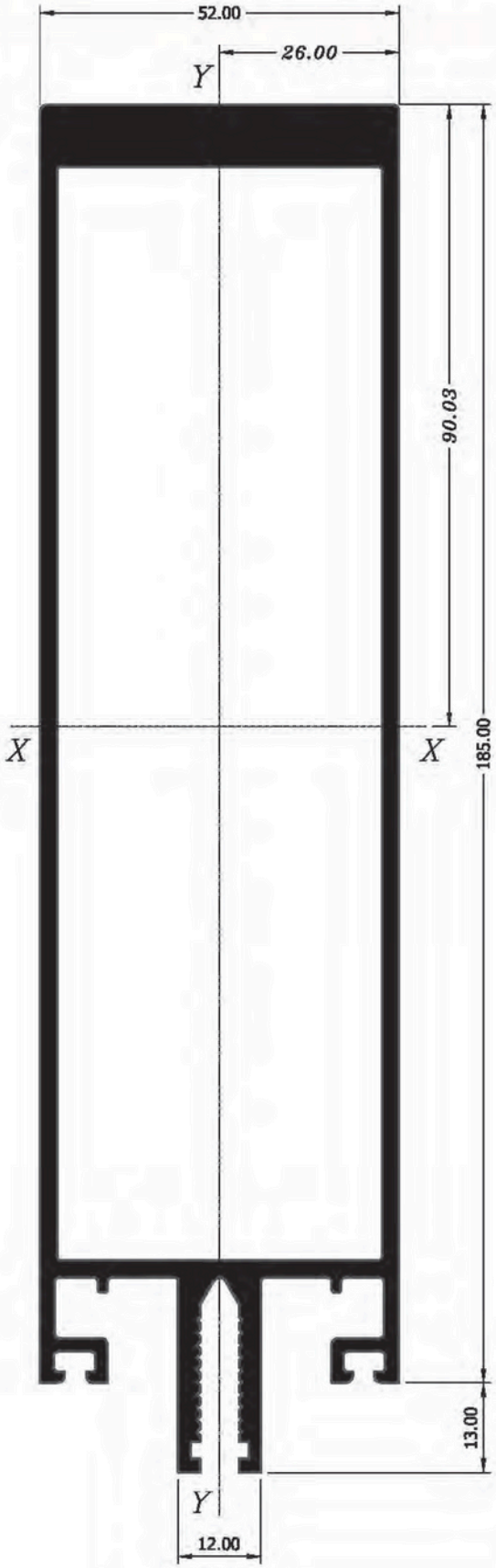
3 052 1116

3.969 Kg./ml.

$I_x = 564.74$ Cm^4

$I_y = 56.53$ Cm^4

Profile No.	3 052 1113	3 052 1116
Profile Old No.	CW 5208	CW 5209

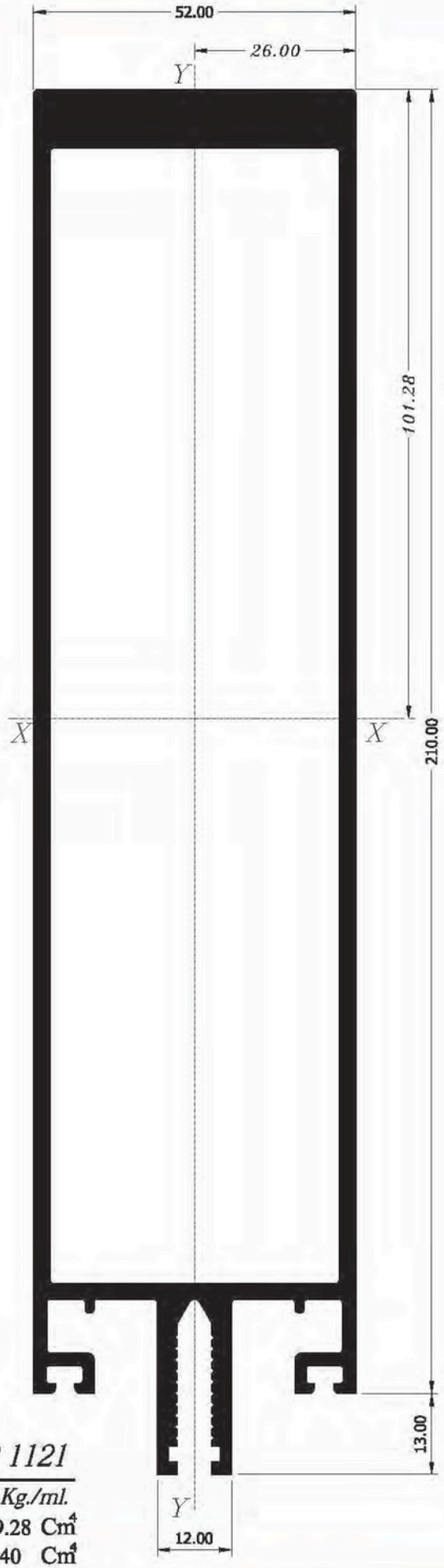


3 052 1118

4.438 Kg./ml.

$I_x = 839.38$ Cm^4

$I_y = 68.31$ Cm^4

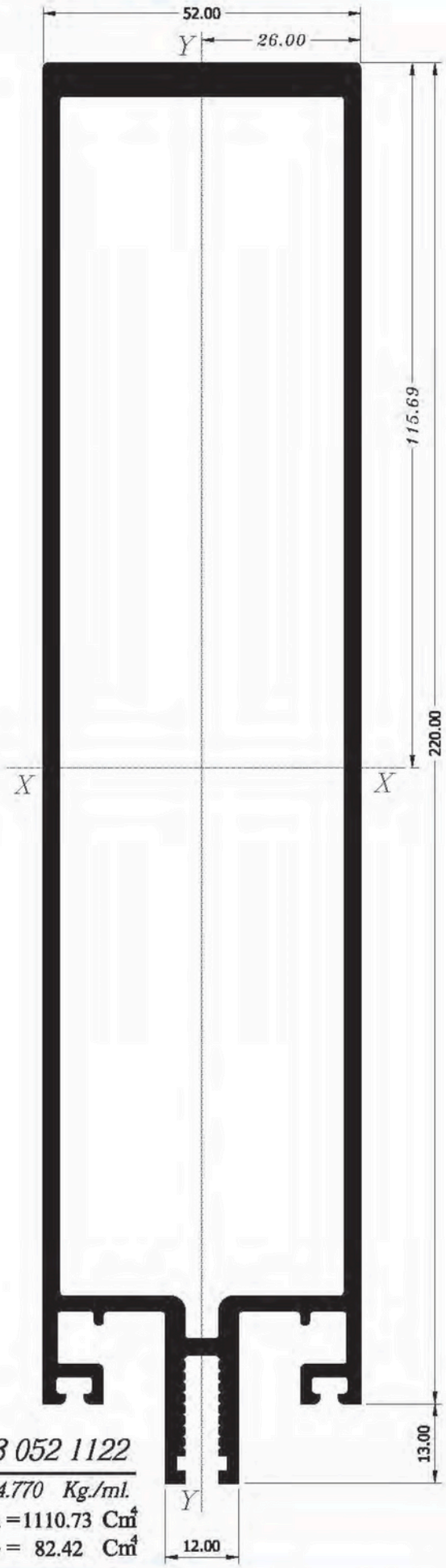


3 052 1121

4.966 Kg./ml.

$I_x = 1159.28$ Cm^4

$I_y = 76.40$ Cm^4

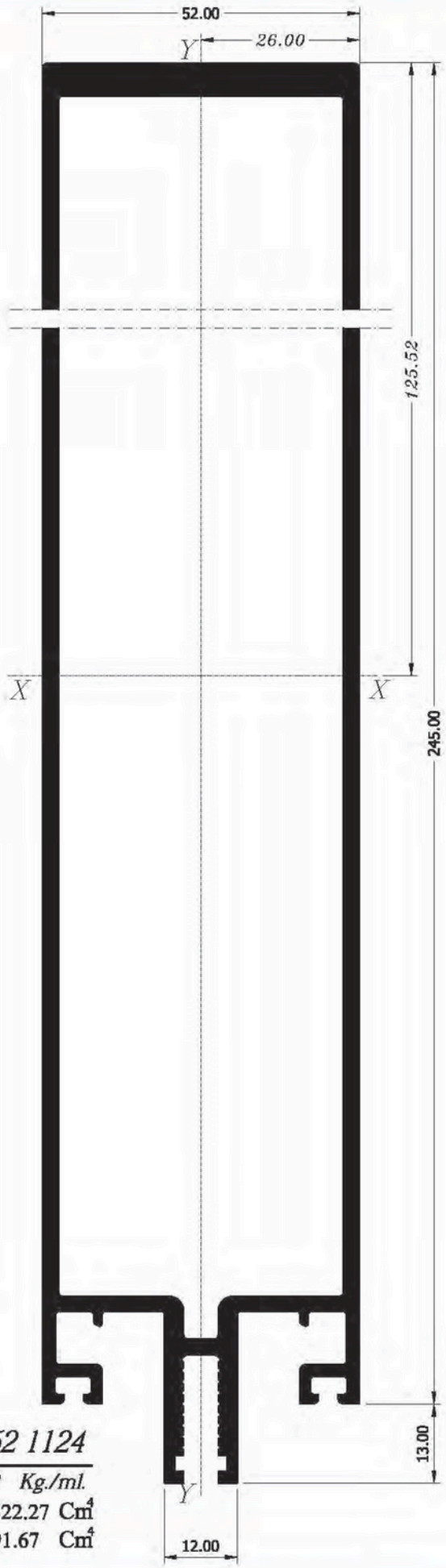


3 052 1122

4.770 Kg./ml.

$I_x = 1110.73\ Cm^4$

$I_y = 82.42\ Cm^4$

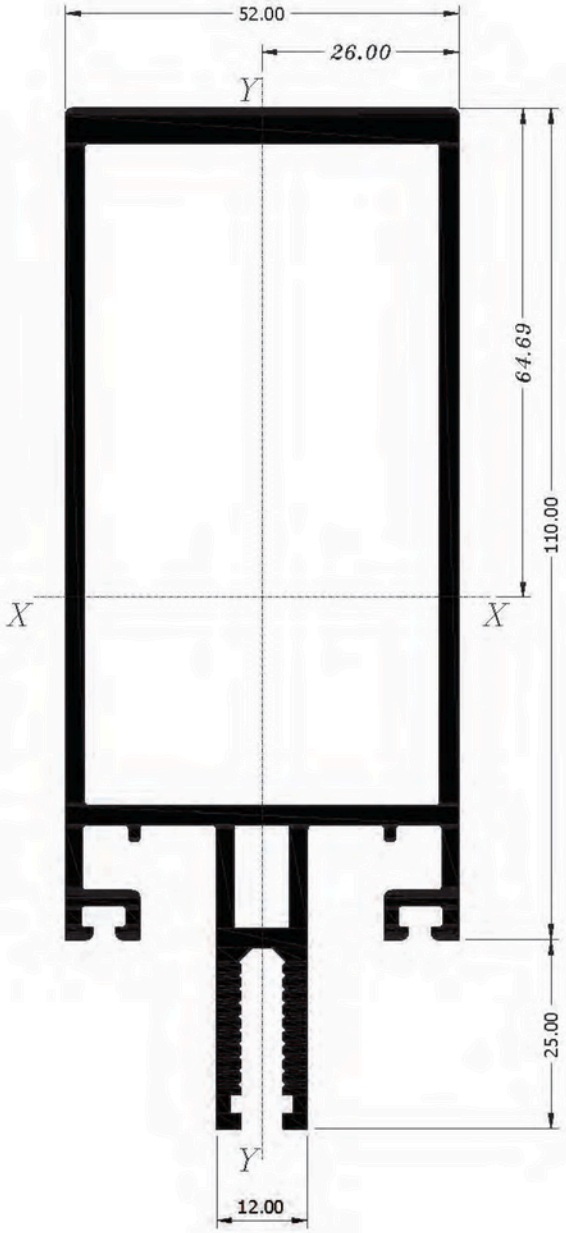


3 052 1124

5.262 Kg./ml.

$I_x = 1522.27\ Cm^4$

$I_y = 91.67\ Cm^4$

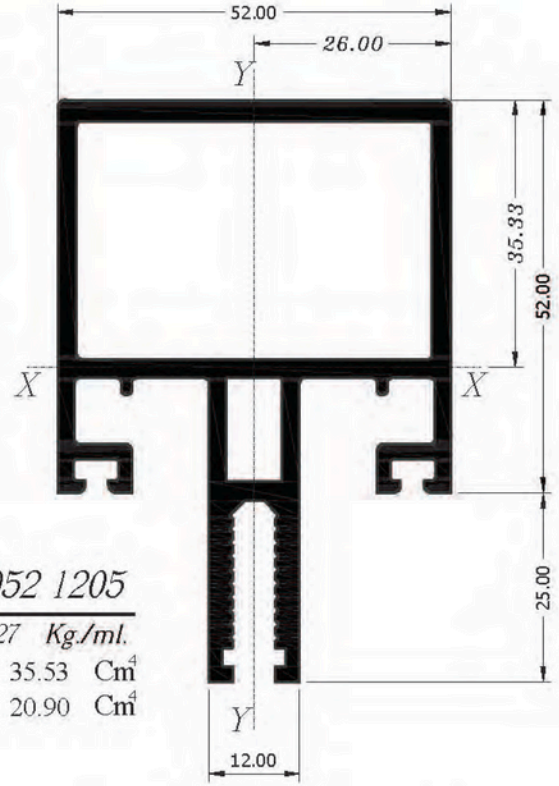


3 052 1211

2.936 Kg./ml.

I_x = 213.07 Cm^4

I_y = 38.65 Cm^4

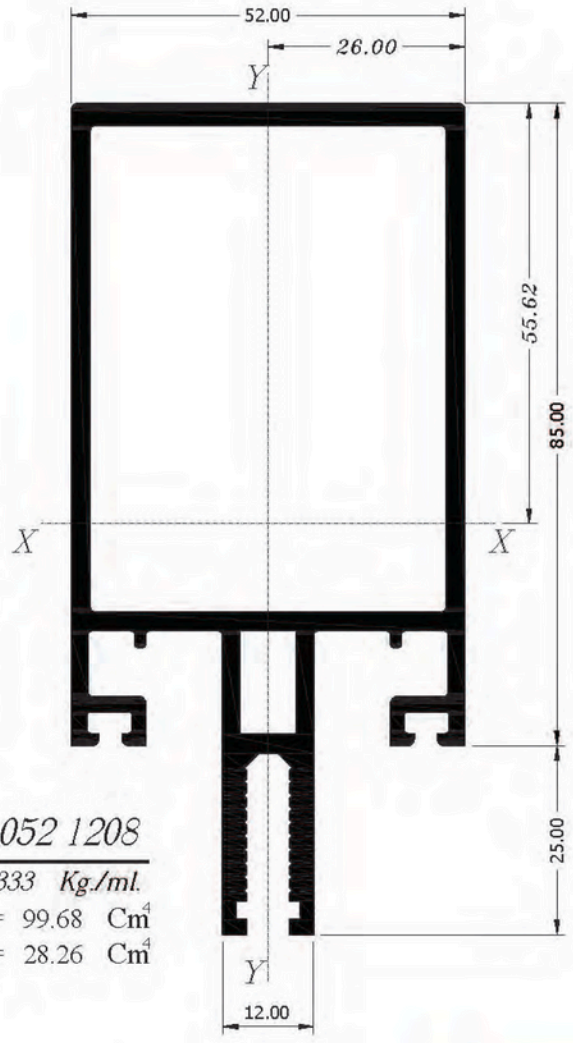


3 052 1205

2.027 Kg./ml.

I_x = 35.53 Cm^4

I_y = 20.90 Cm^4



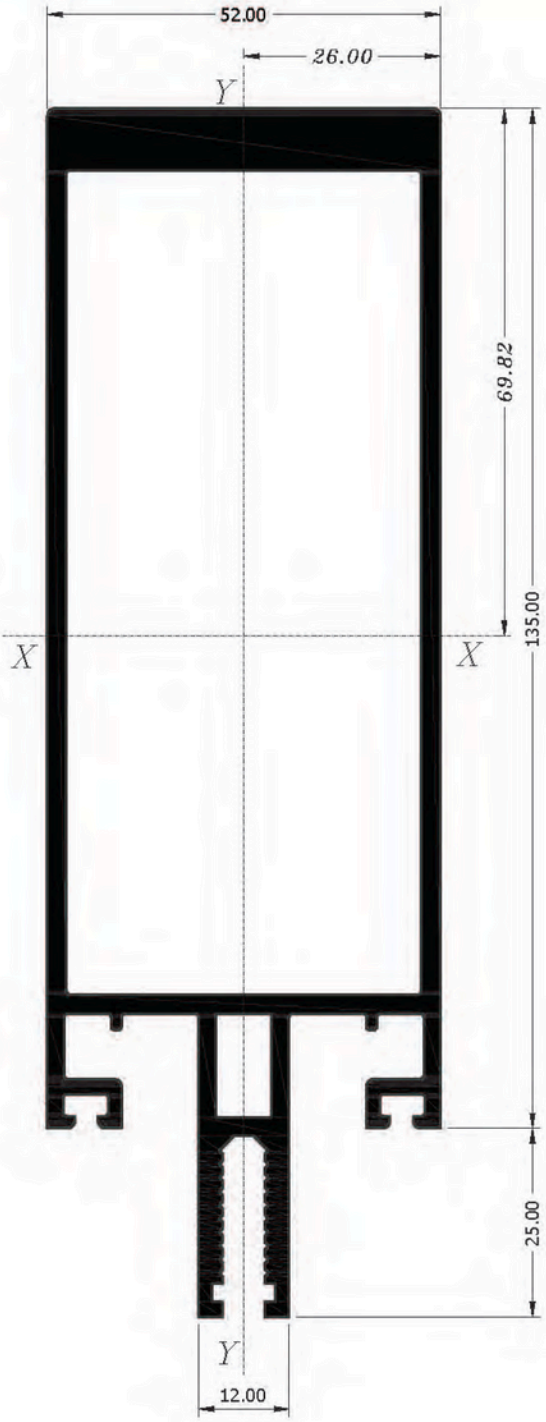
3 052 1208

2.333 Kg./ml.

I_x = 99.68 Cm^4

I_y = 28.26 Cm^4

Profile No.	*3 052 1208*	*3 052 1211*
Profile Old No.	*CW 5216.1*	*CW 5217.1*

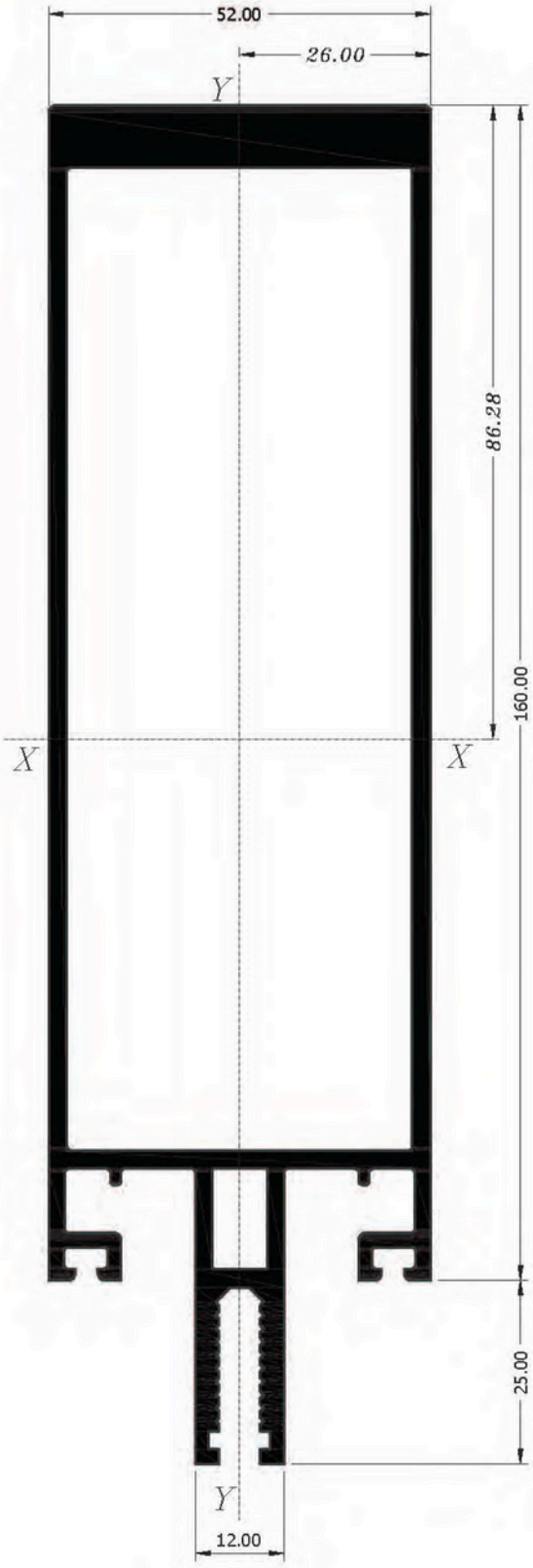


3 052 1213

3.750 Kg./ml.

I_x = 421.35 Cm^4

I_y = 49.29 Cm^4



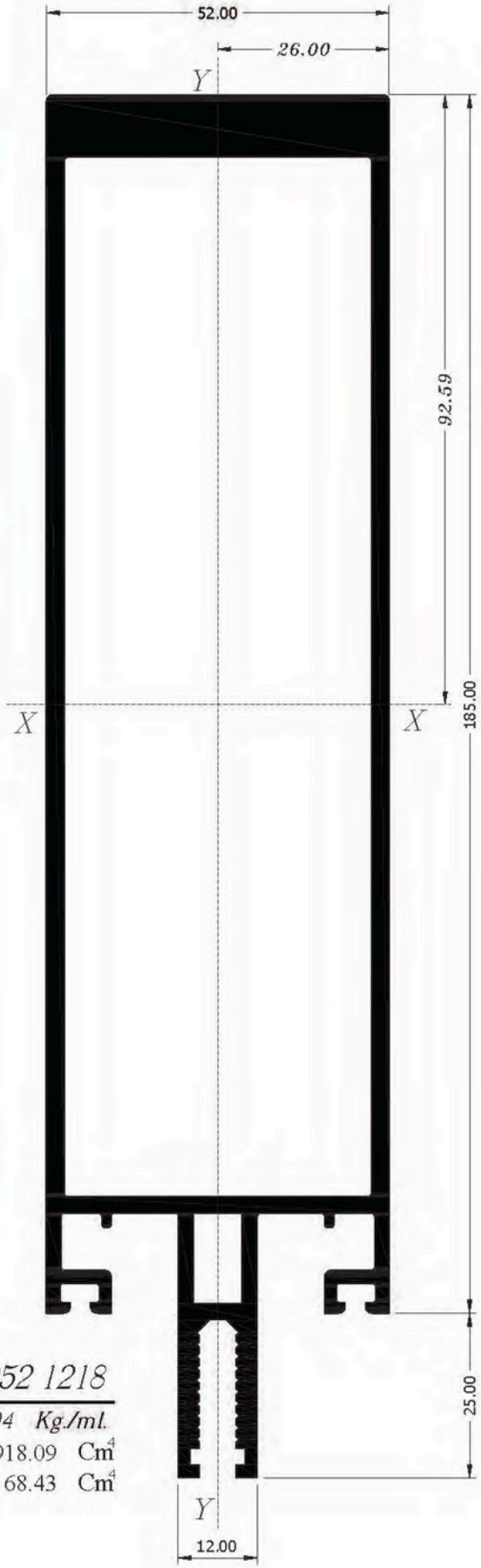
3 052 1216

4.098 Kg./ml.

I_x = 627.80 Cm^4

I_y = 56.66 Cm^4

Profile No.	3 052 1213	3 052 1216
Profile Old No.	CW 5218	CW 5219

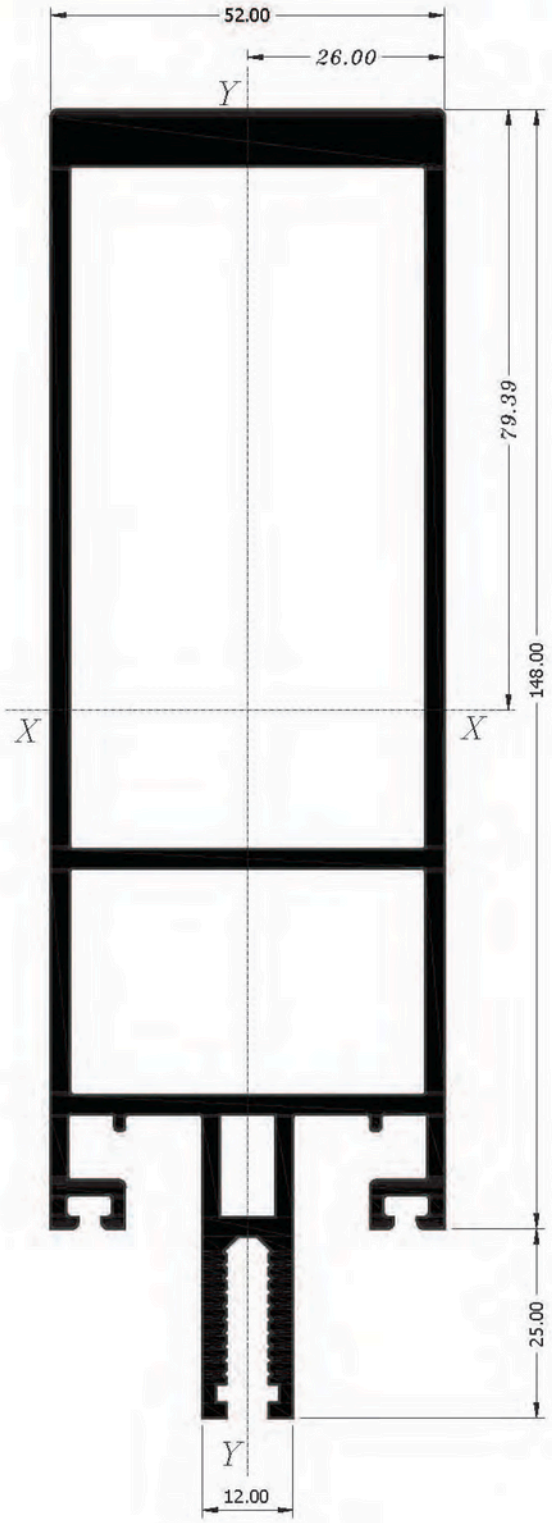


3 052 1218

4.694 Kg./ml.

I_x = 918.09 Cm^4

I_y = 68.43 Cm^4

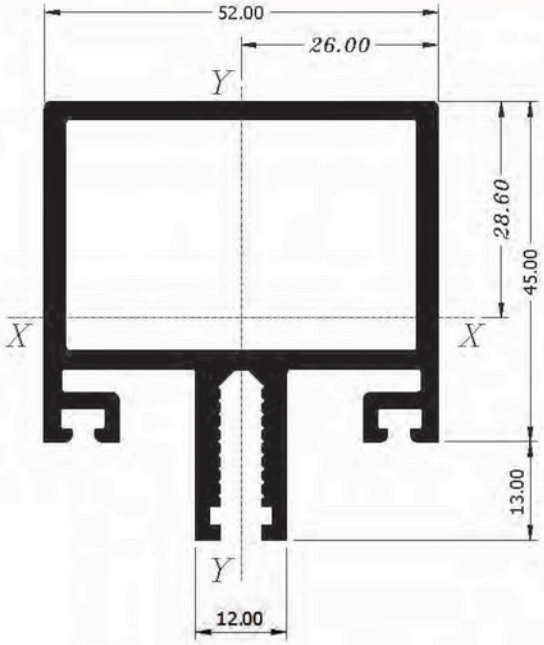


3 052 1264

4.115 Kg./ml.

I_x = 506.50 Cm^4

I_y = 54.40 Cm^4

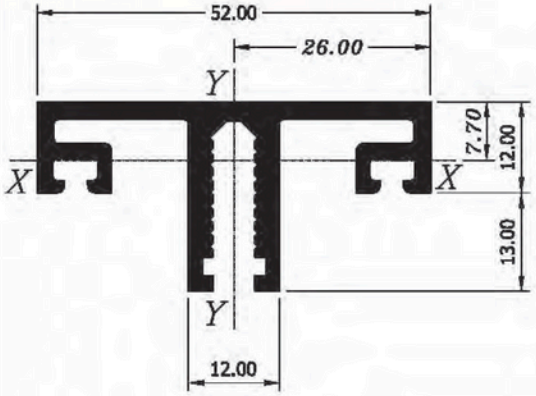


3 052 1404

1.486 Kg./ml.

I_x = 16.32 Cm^4

I_y = 16.54 Cm^4

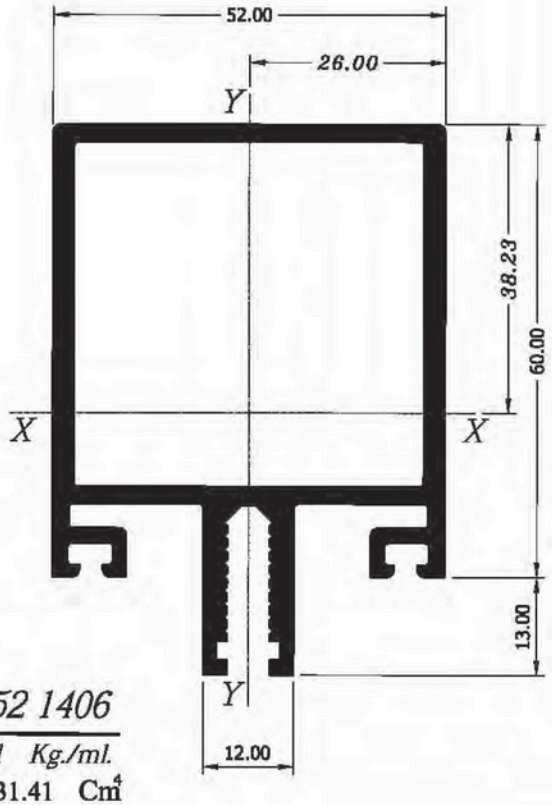


3 052 1401

0.896 Kg./ml.

I_x = 1.49 Cm^4

I_y = 6.59 Cm^4

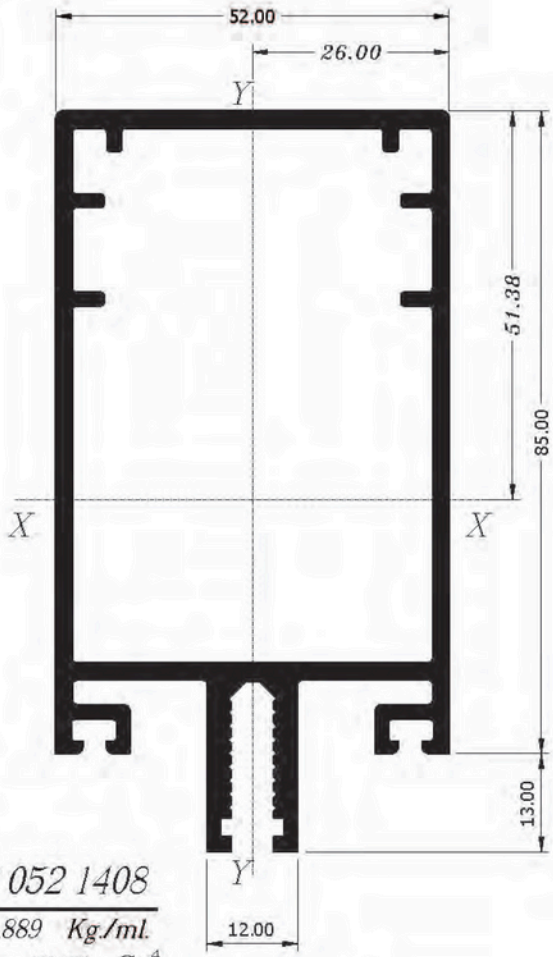


3 052 1406

1.571 Kg./ml.

I_x = 31.41 Cm^4

I_y = 19.59 Cm^4



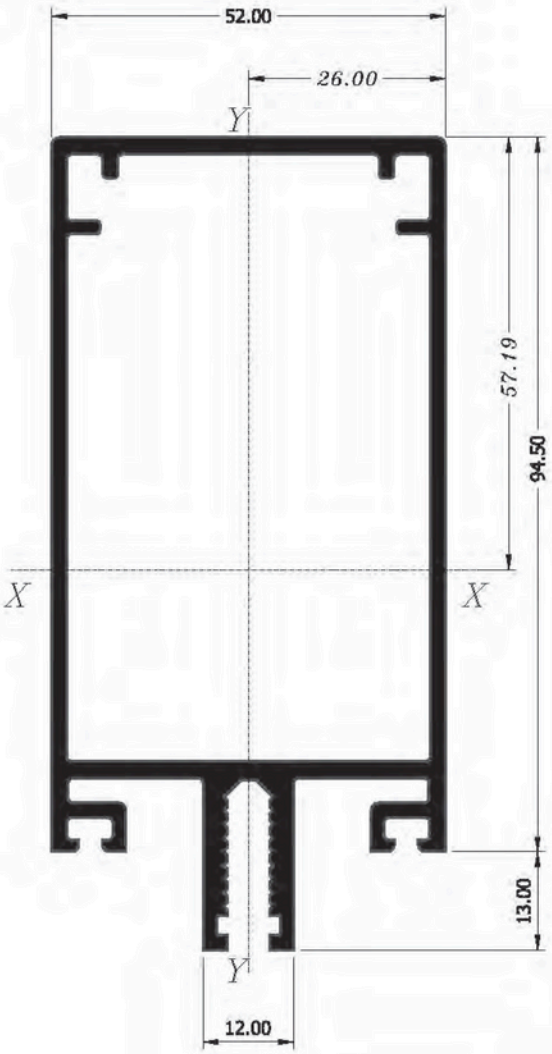
3 052 1408

1.889 Kg./ml.

I_x = 73.72 Cm^4

I_y = 25.70 Cm^4

Profile No.	3 052 1401	3 052 1404	3 052 1406	3 052 1408
Profile Old No.	CW 5230	CW 5232	CW 5233	CW 5235

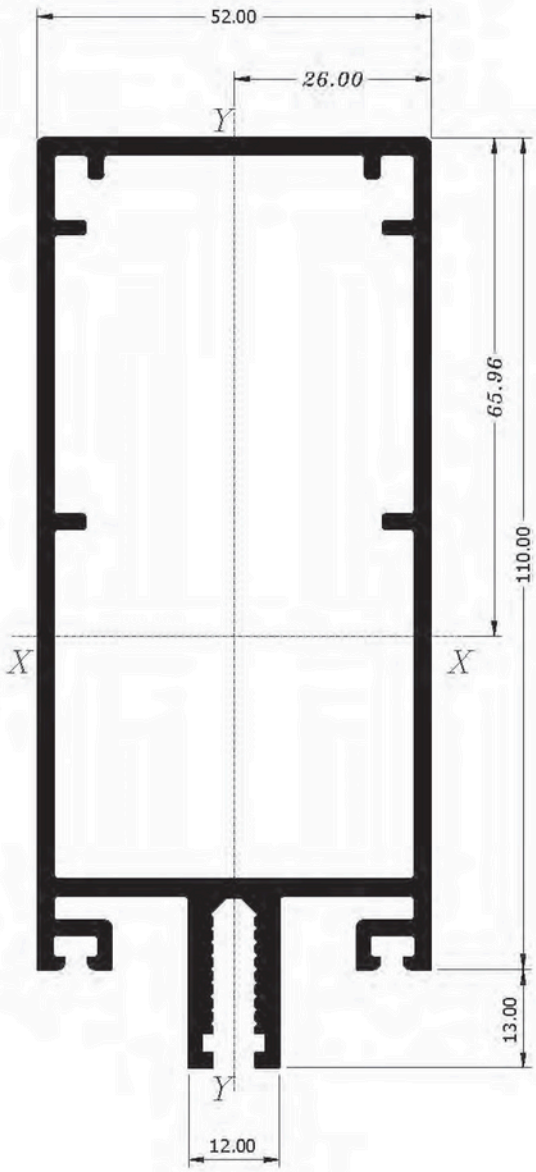


3 052 1409

1.982 Kg./ml.

I_x = 94.81 Cm^4

I_y = 27.85 Cm^4

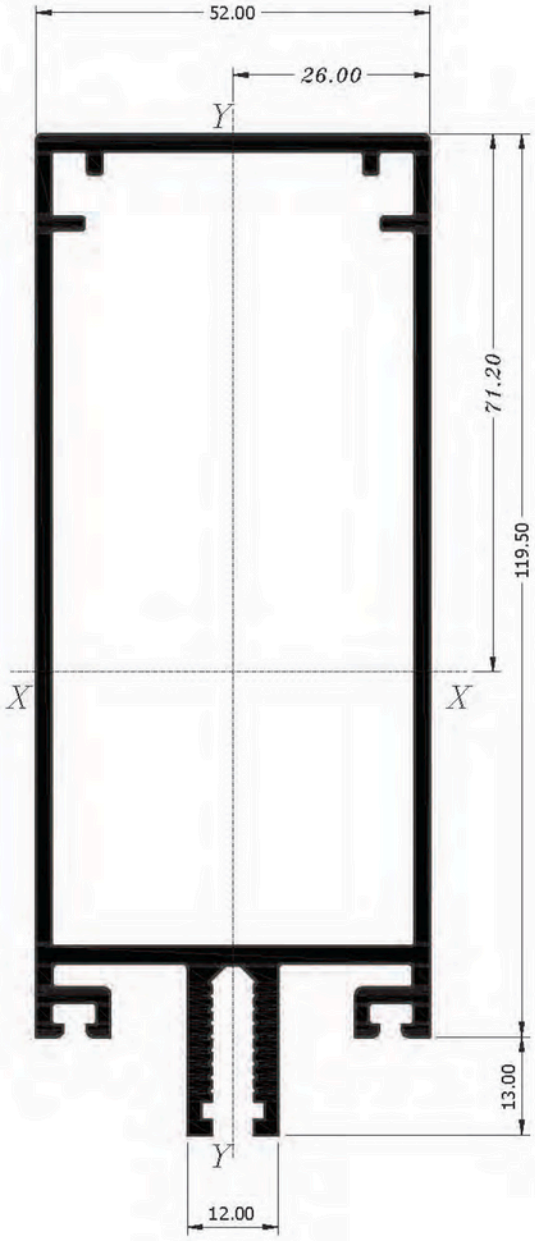


3 052 1411

2.126 Kg./ml.

I_x = 136.13 Cm^4

I_y = 31.37 Cm^4

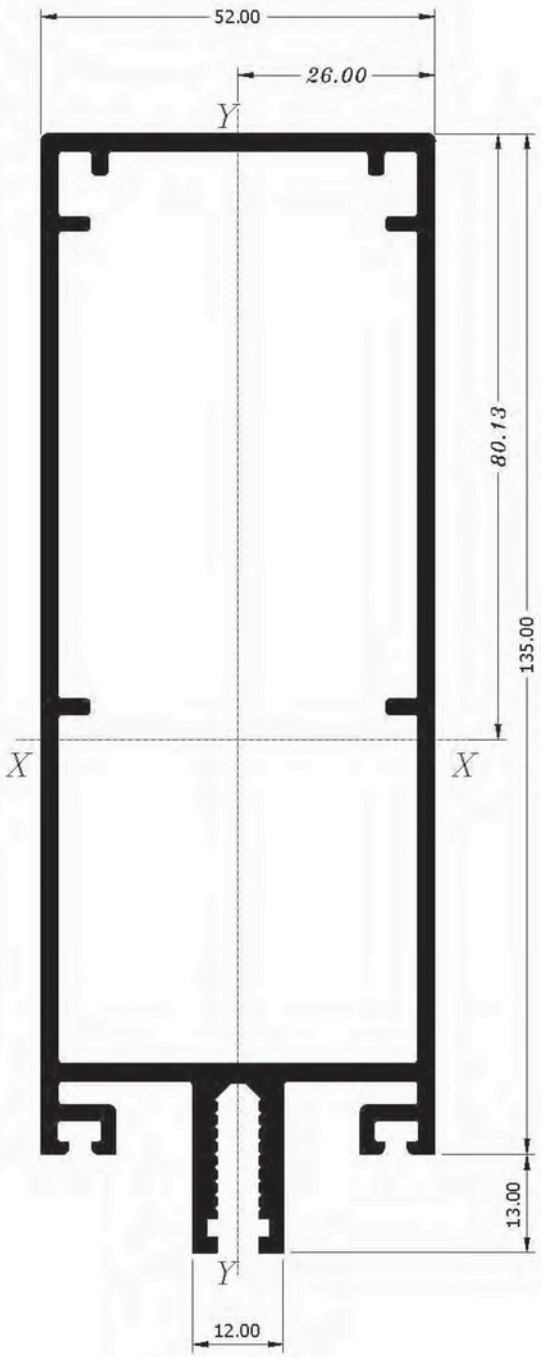


3 052 1412

2.225 Kg./ml.

I_x = 166.29 Cm^4

I_y = 33.53 Cm^4

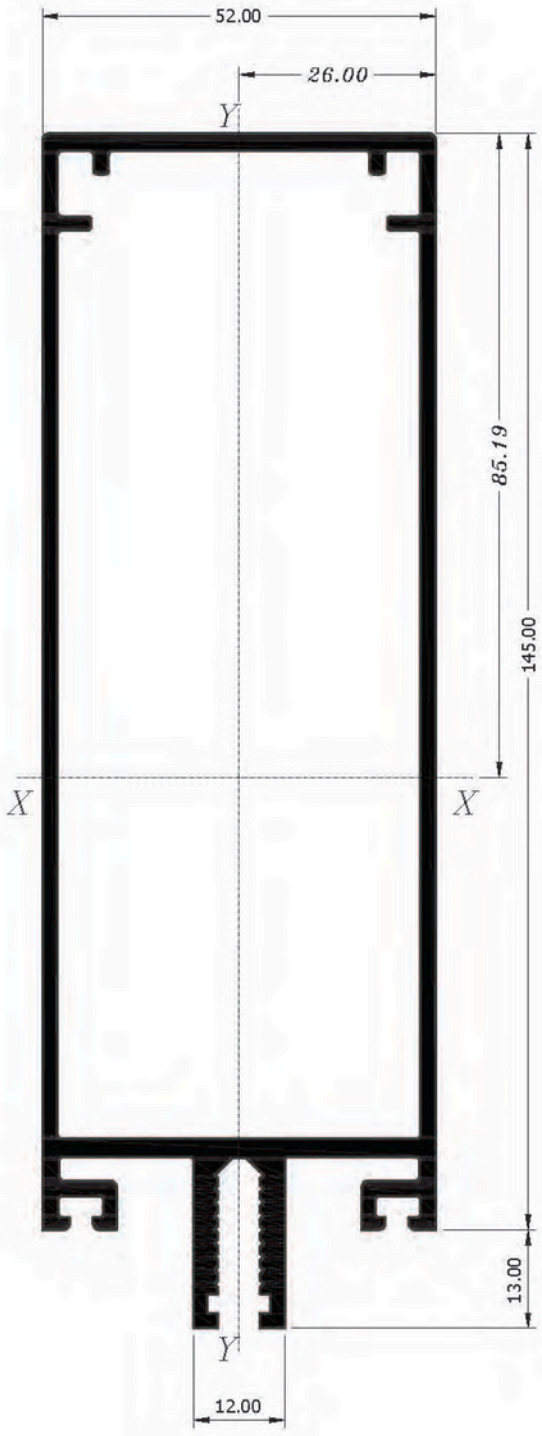


3 052 1413

2.676 Kg./ml.

I_x = 241.13 Cm^4

I_y = 42.48 Cm^4

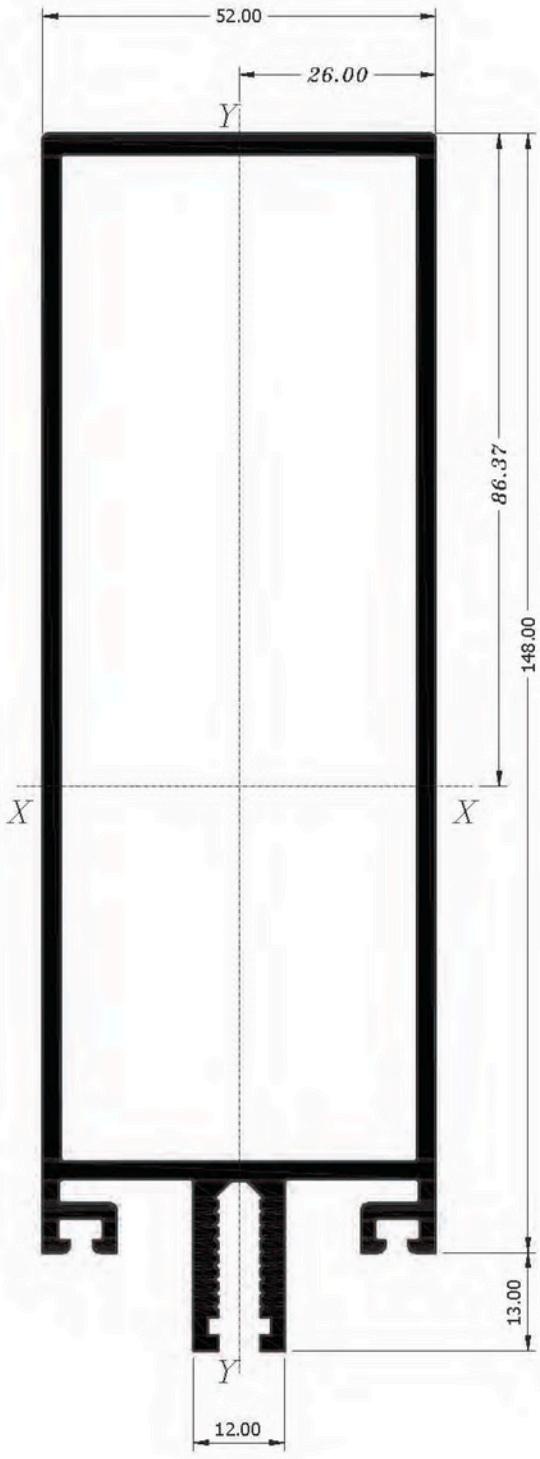


3 052 1414

2.472 Kg./ml.

I_x = 265.42 Cm^4

I_y = 39.31 Cm^4

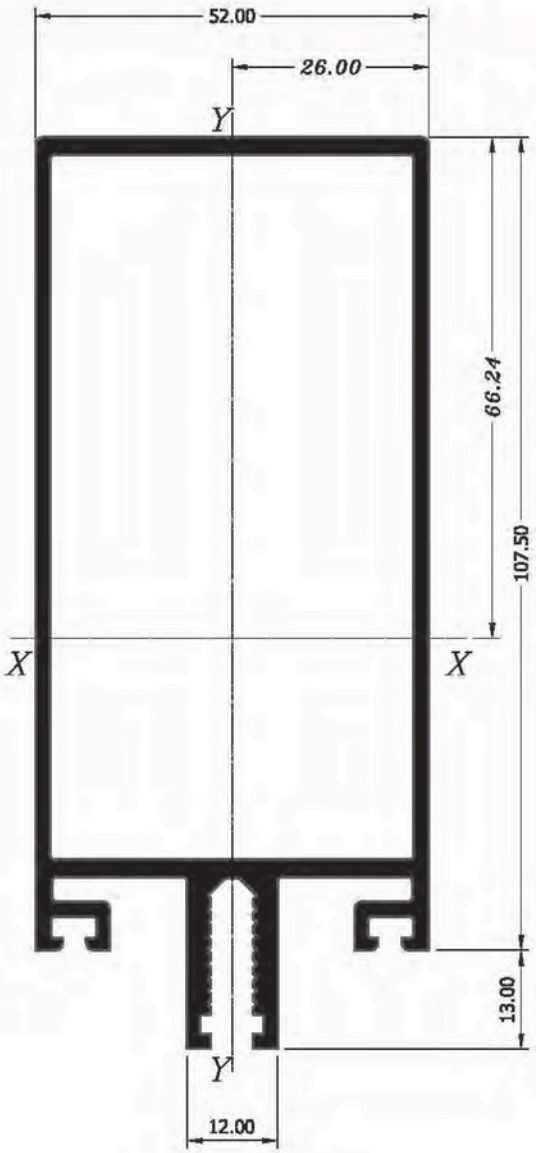


3 052 1415

2.879 Kg./ml.

I_x = 309.29 Cm^4

I_y = 46.82 Cm^4

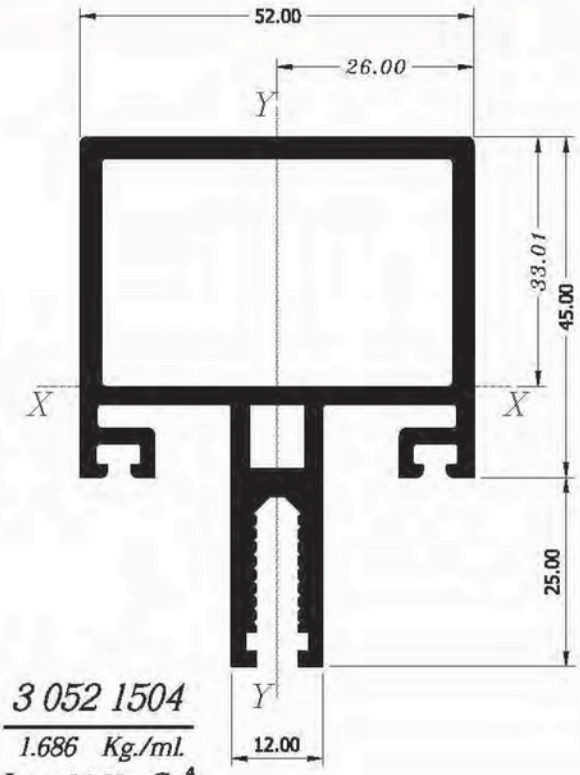


3 052 1461

2.035 Kg./ml.

I_x = 121.02 Cm^4

I_y = 29.74 Cm^4

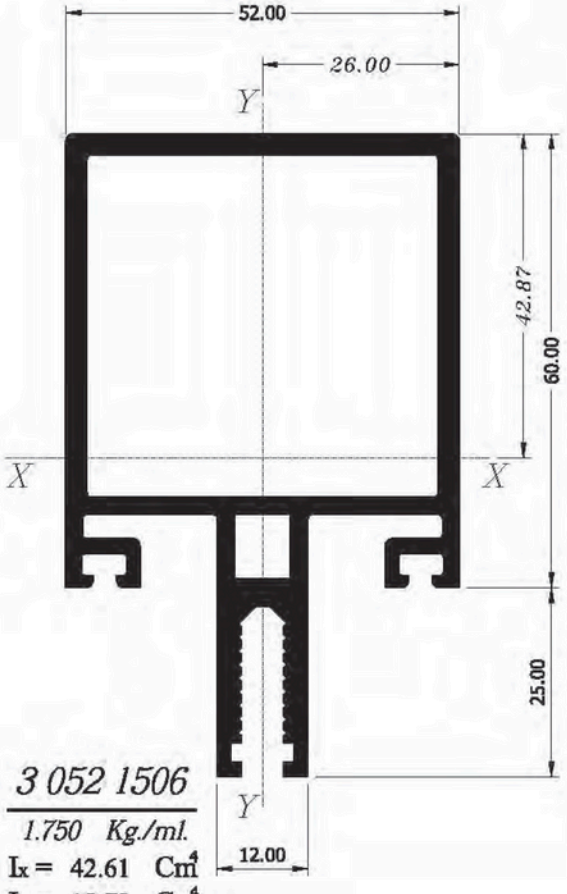


3 052 1504

1.686 Kg./ml.

I_x = 24.58 Cm^4

I_y = 16.68 Cm^4



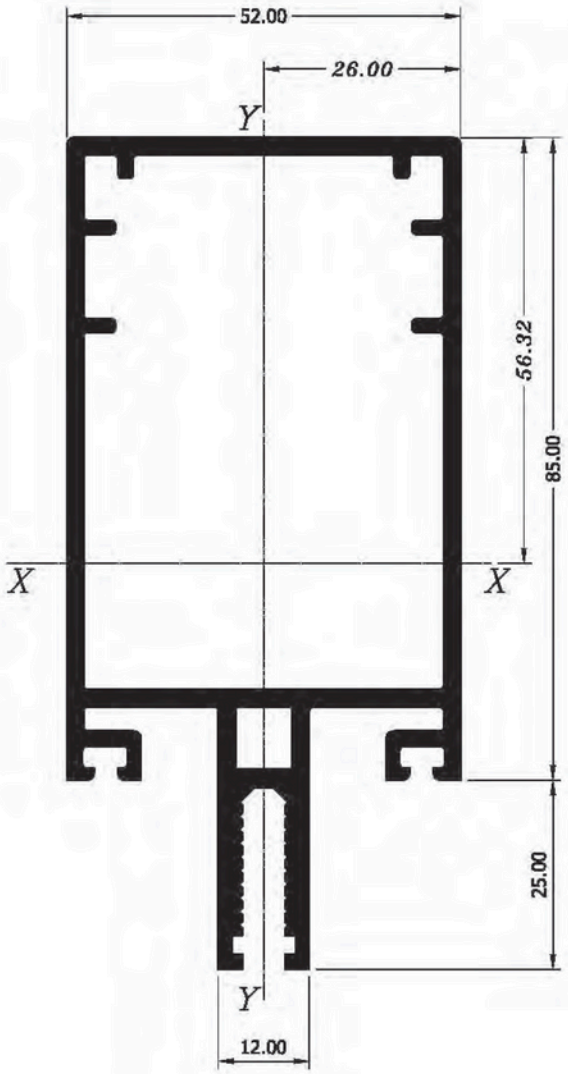
3 052 1506

1.750 Kg./ml.

I_x = 42.61 Cm^4

I_y = 19.73 Cm^4

Profile No.	3 052 1504	3 052 1506
Profile Old No.	CW 5212	CW 5213

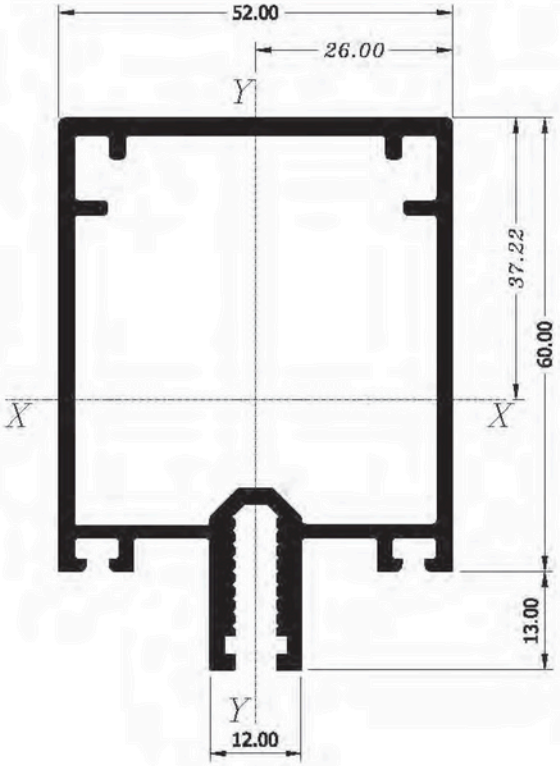


3 052 1508

2.168 Kg./ml.

I_x = 92.06 Cm^4

I_y = 25.83 Cm^4

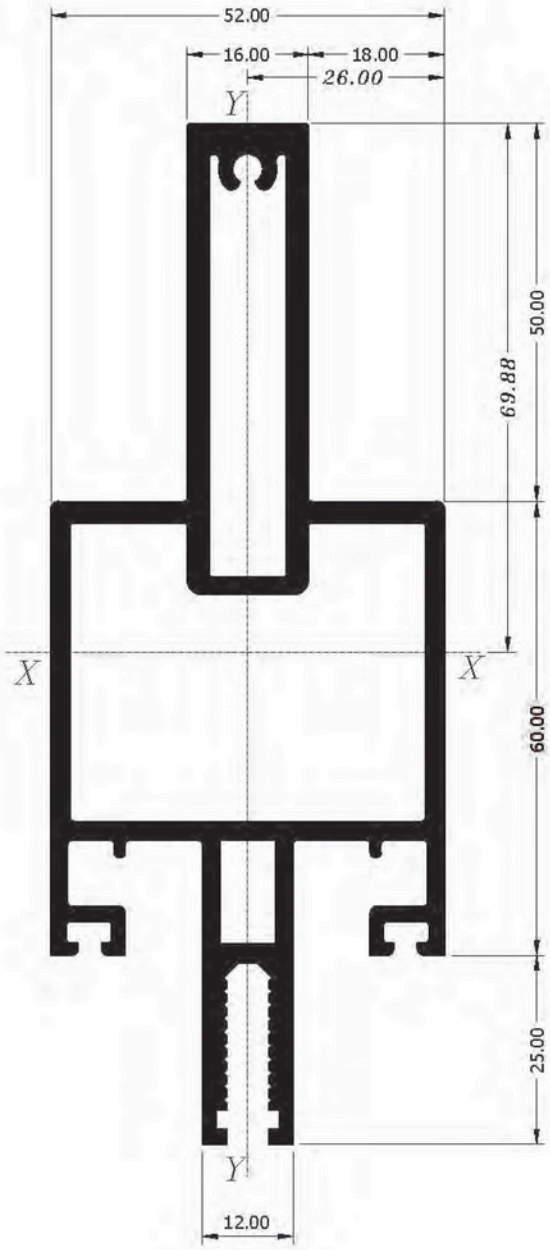


3 052 1606

1.350 Kg./ml.

I_x = 29.50 Cm^4

I_y = 16.60 Cm^4

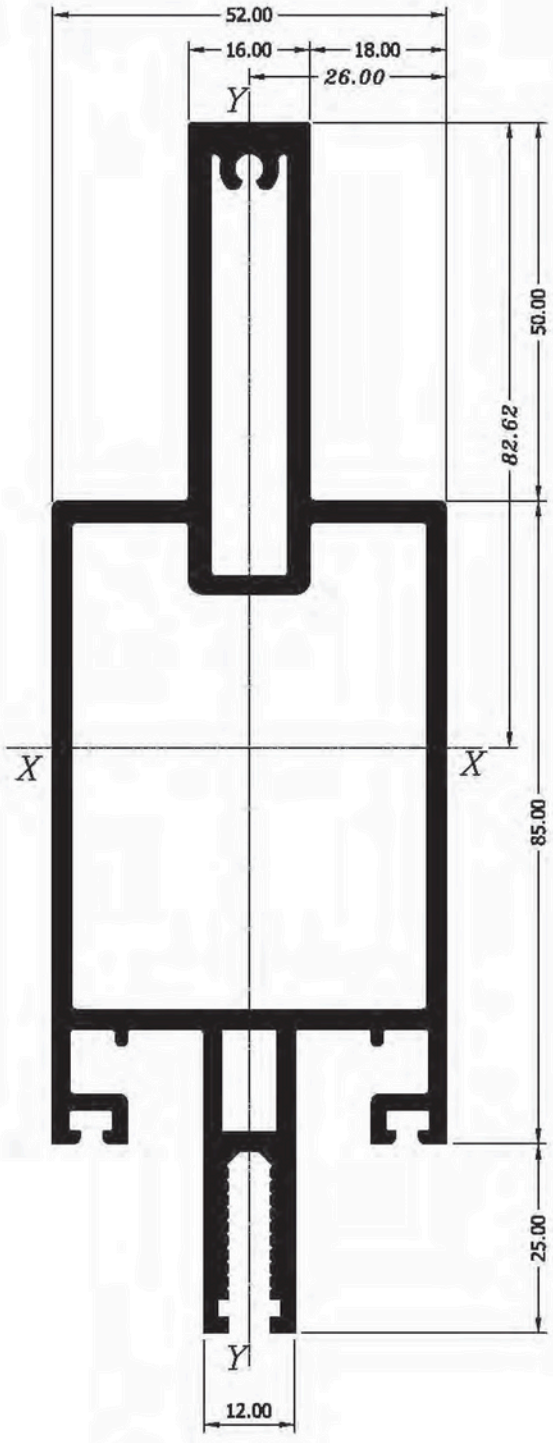


3 052 2206

3.024 Kg./ml.

$I_x = 163.83$ Cm^4

$I_y = 24.20$ Cm^4



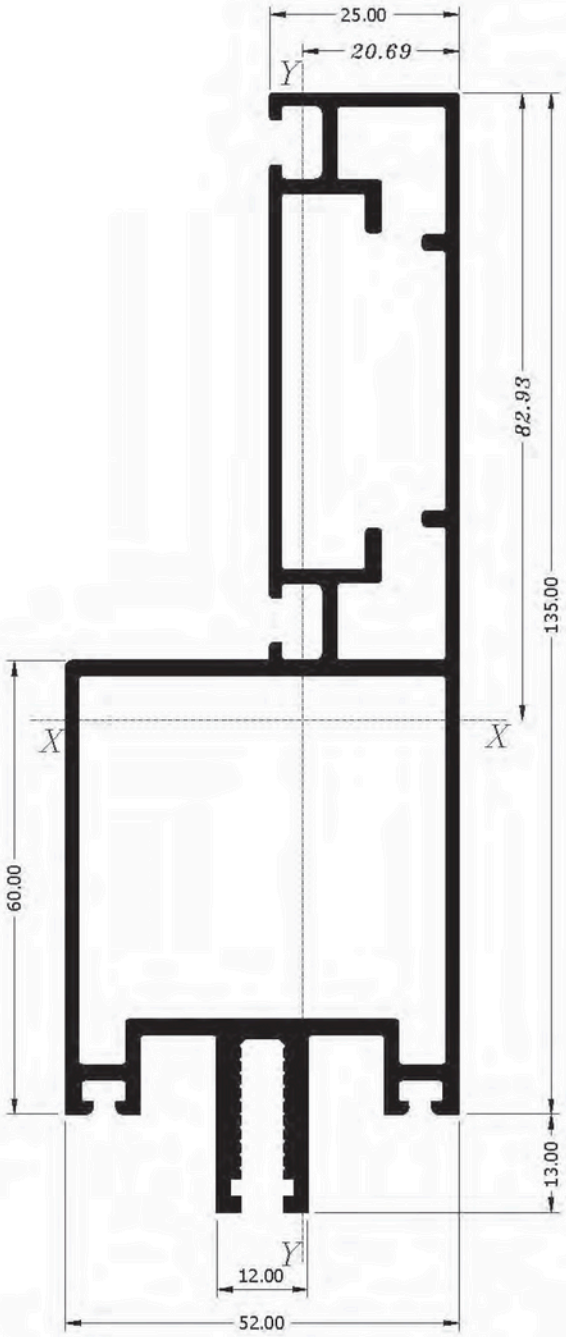
3 052 2208

3.347 Kg./ml.

$I_x = 275.61$ Cm^4

$I_y = 31.31$ Cm^4

Profile No.	3 052 2206	3 052 2208
Profile Old No.	CW 5216.2	CW 5217.2

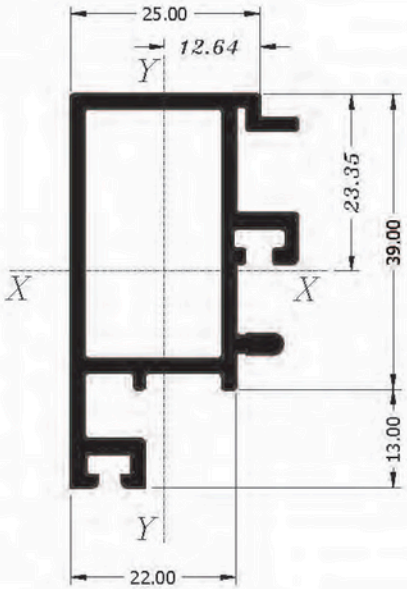


3 052 2413

2.329 Kg./ml.

I_x = 178.75 Cm^4

I_y = 23.45 Cm^4

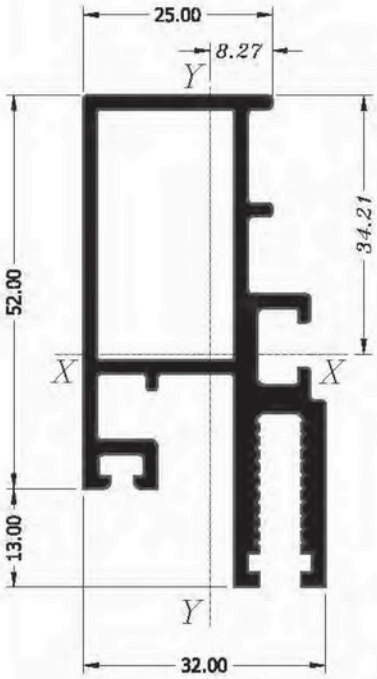


3 052 3005

0.759 Kg./ml.

I_x = 7.17 Cm^4

I_y = 2.79 Cm^4

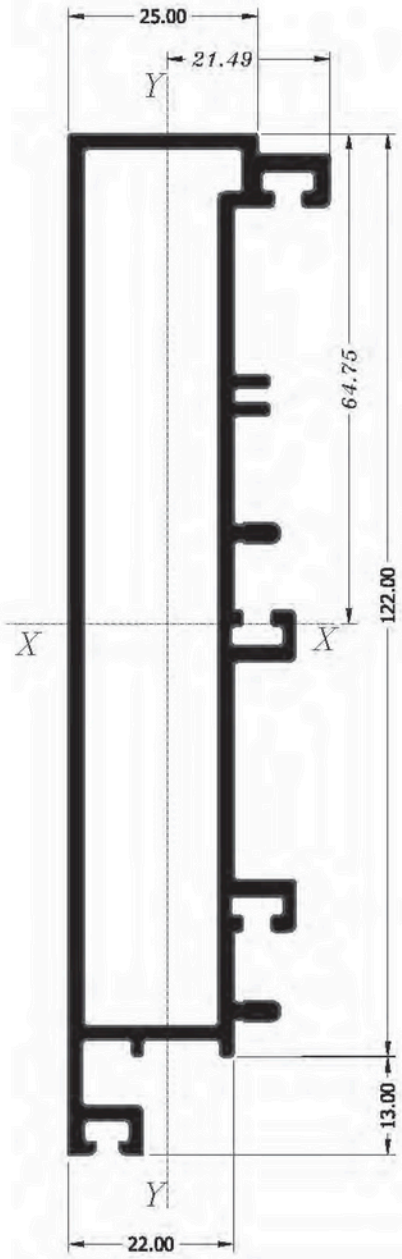


3 052 3105

1.157 Kg./ml.

I_x = 14.34 Cm^4

I_y = 4.61 Cm^4

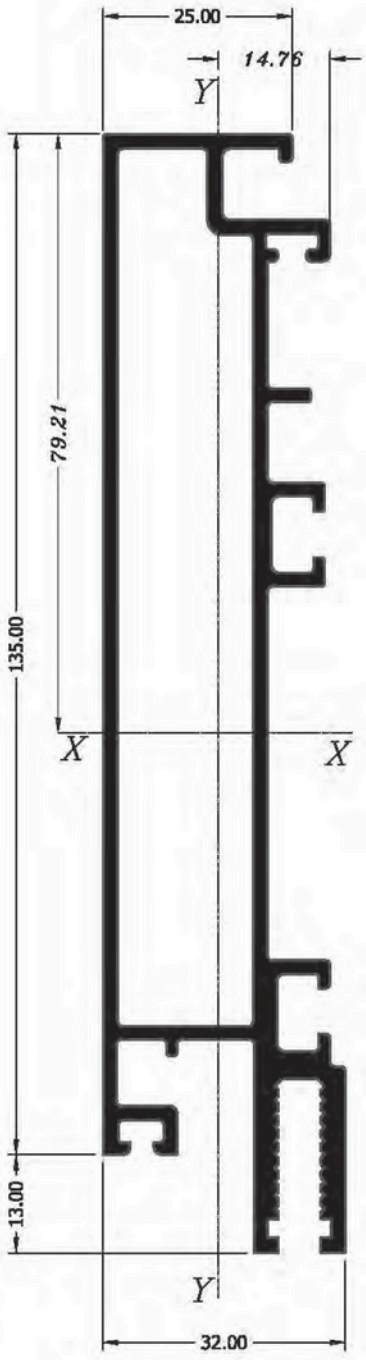


3 052 3013

1.846 Kg./ml.

I_x = 120.76 Cm^4

I_y = 7.70 Cm^4

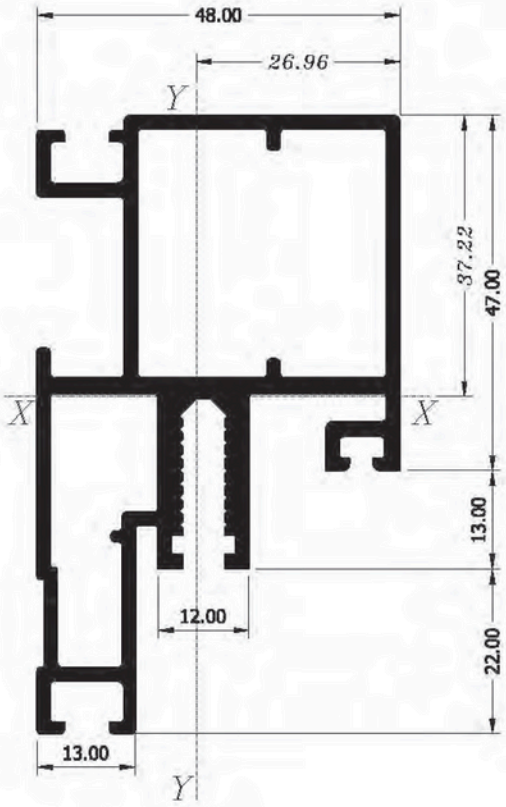


3 052 3113

2.242 Kg./ml.

I_x = 181.79 Cm^4

I_y = 9.30 Cm^4

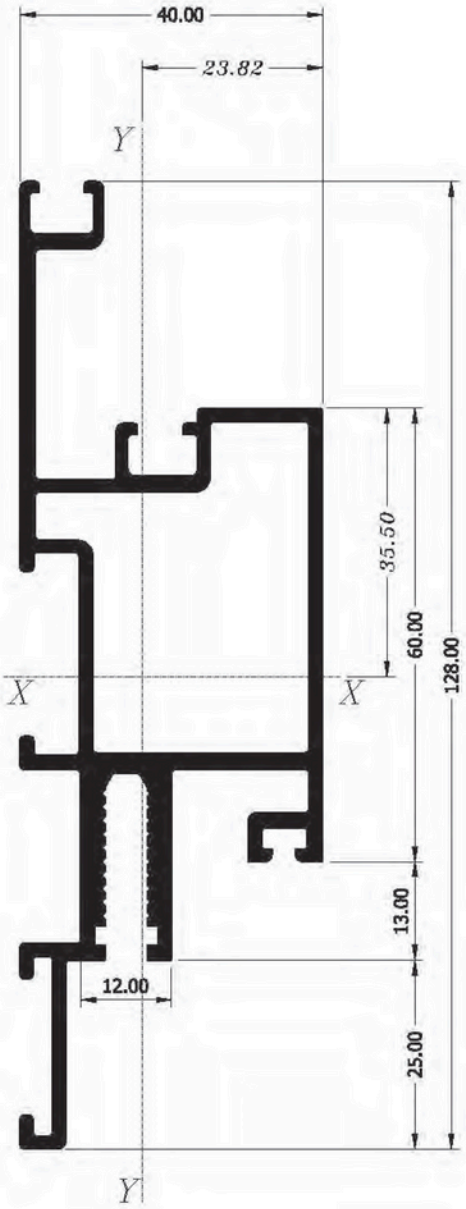


3 052 3604

1.673 Kg./ml.

I_x = 30.56 Cm^4

I_y = 14.01 Cm^4

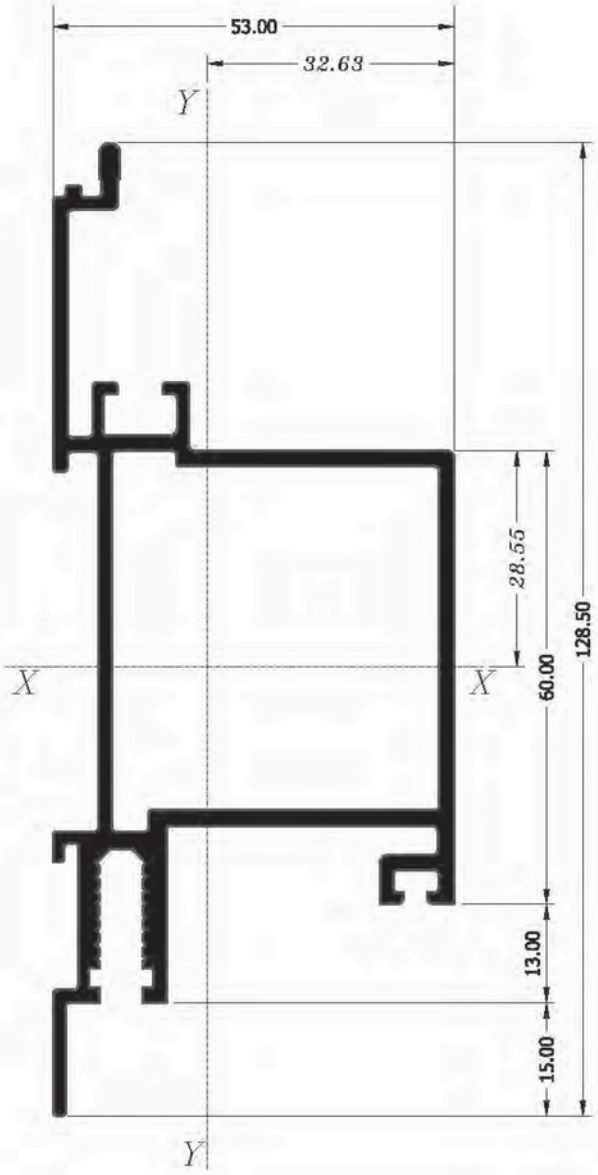


3 052 3606

1.805 Kg./ml.

I_x = 62.89 Cm^4

I_y = 11.51 Cm^4

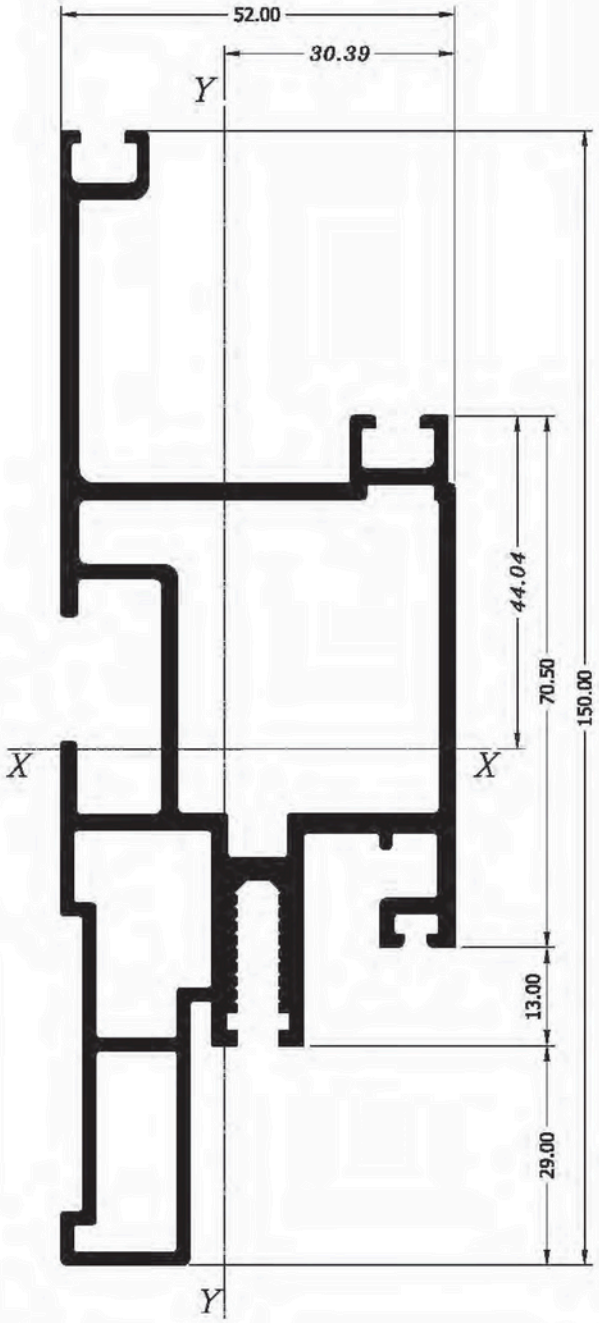


3 052 3646

1.728 Kg./ml.

I_x = 64.13 Cm^4

I_y = 23.52 Cm^4

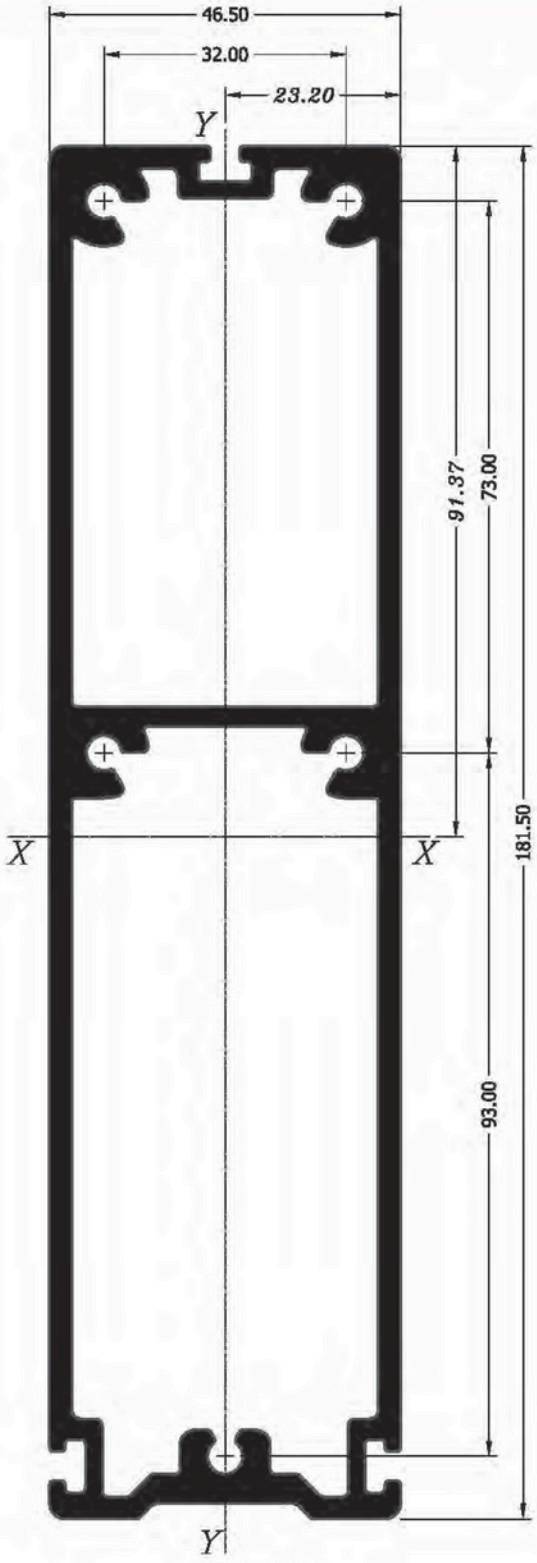


3 052 3656

2.563 Kg./ml.

I_x = 124.00 Cm^4

I_y = 28.32 Cm^4

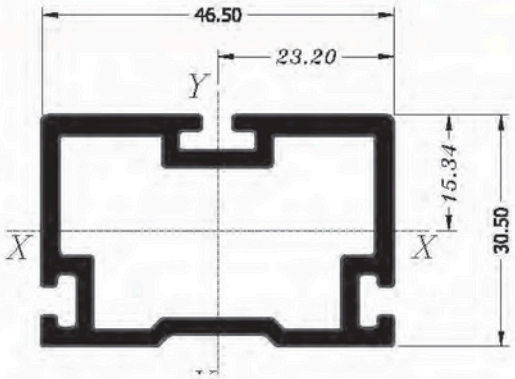


3 052 4021

4.055 Kg./ml.

I_x = 560.12 Cm^4

I_y = 50.98 Cm^4

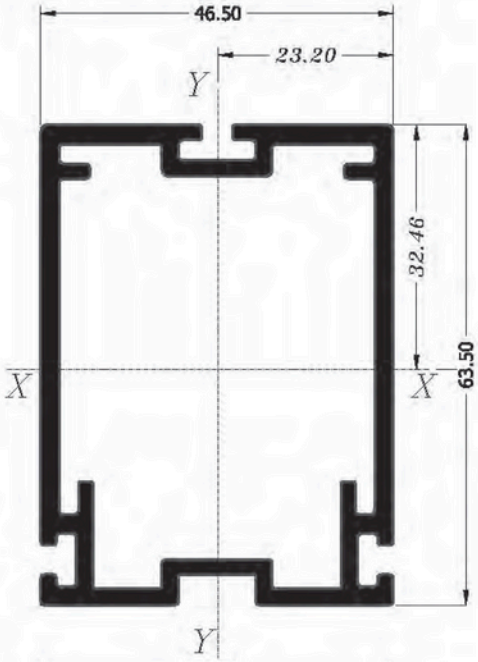


3 052 4105

0.919 Kg./ml.

I_x = 4.37 Cm^4

I_y = 8.92 Cm^4

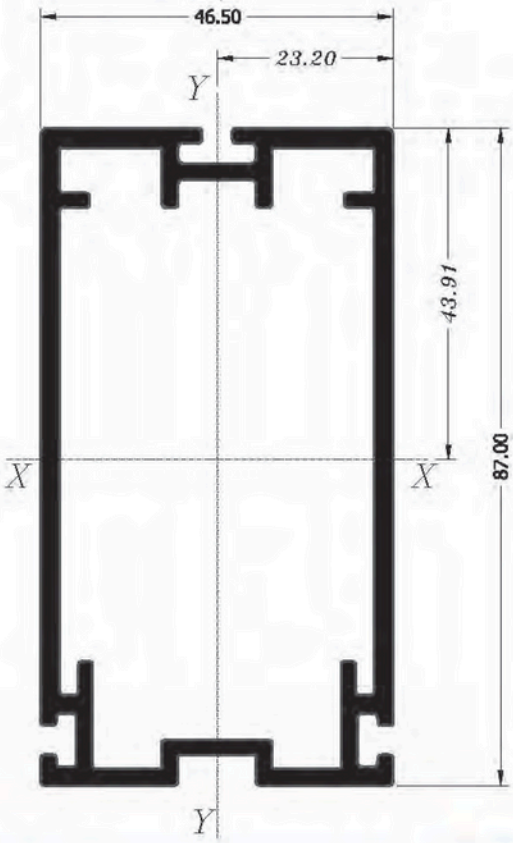


3 052 4108

1.451 Kg./ml.

I_x = 30.27 Cm^4

I_y = 16.74 Cm^4

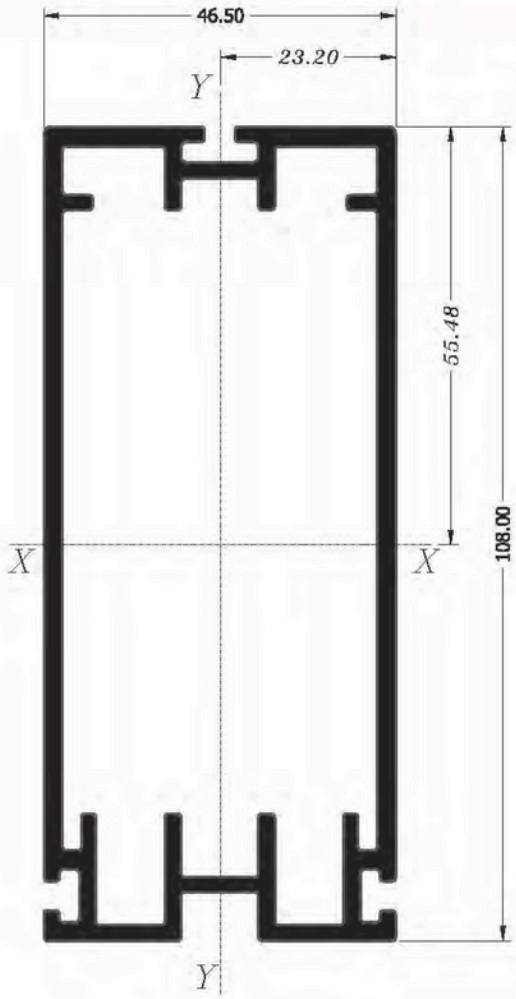


3 052 4111

1.737 Kg./ml.

I_x = 66.86 Cm^4

I_y = 21.20 Cm^4

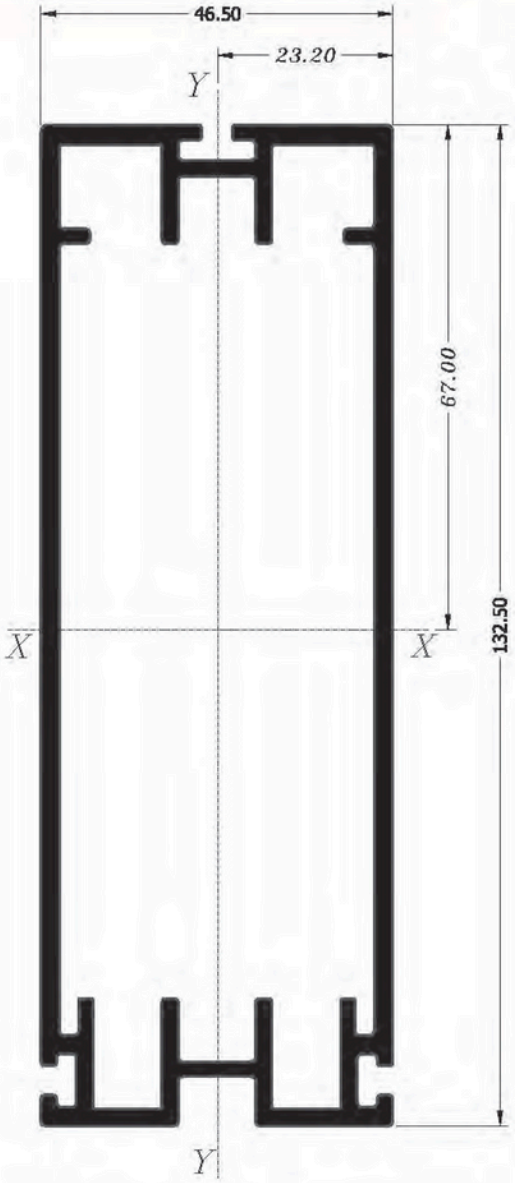


3 052 4113

2.078 Kg./ml.

$I_x = 121.60$ Cm^4

$I_y = 25.22$ Cm^4

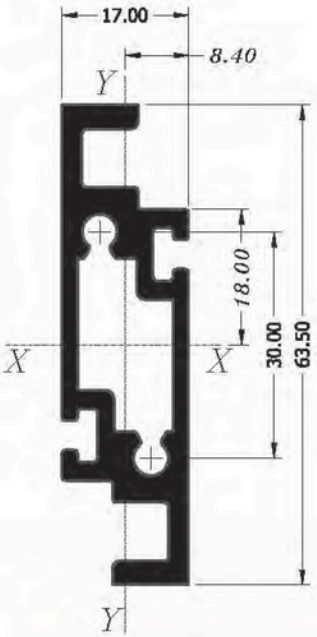


3 052 4116

2.396 Kg./ml.

$I_x = 207.57$ Cm^4

$I_y = 29.95$ Cm^4

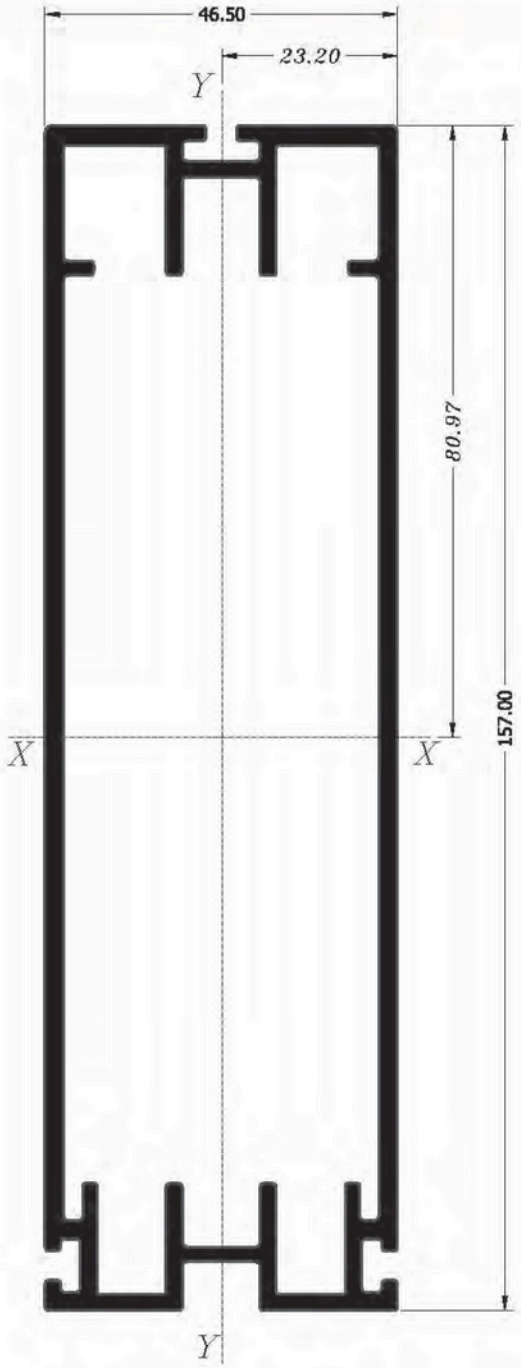


3 052 4708

1.009 Kg./ml.

$I_x = 12.65$ Cm^4

$I_y = 1.20$ Cm^4

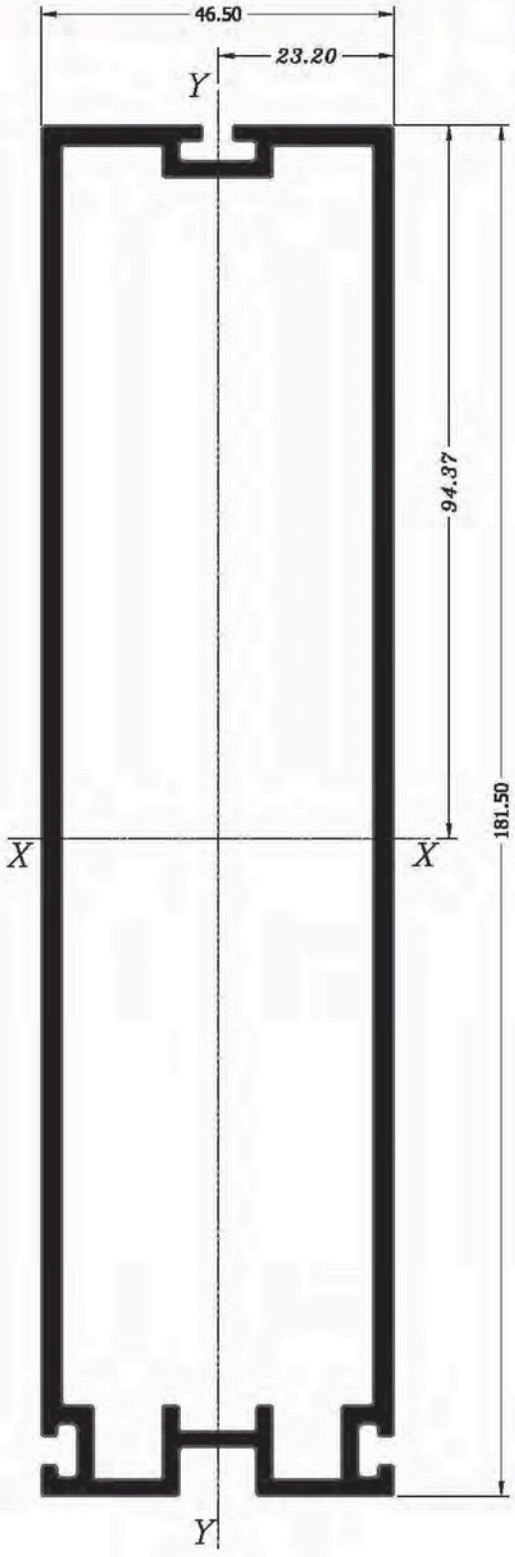


3 052 4118

2.962 Kg./ml.

$I_x = 347.29$ Cm^4

$I_y = 37.29$ Cm^4

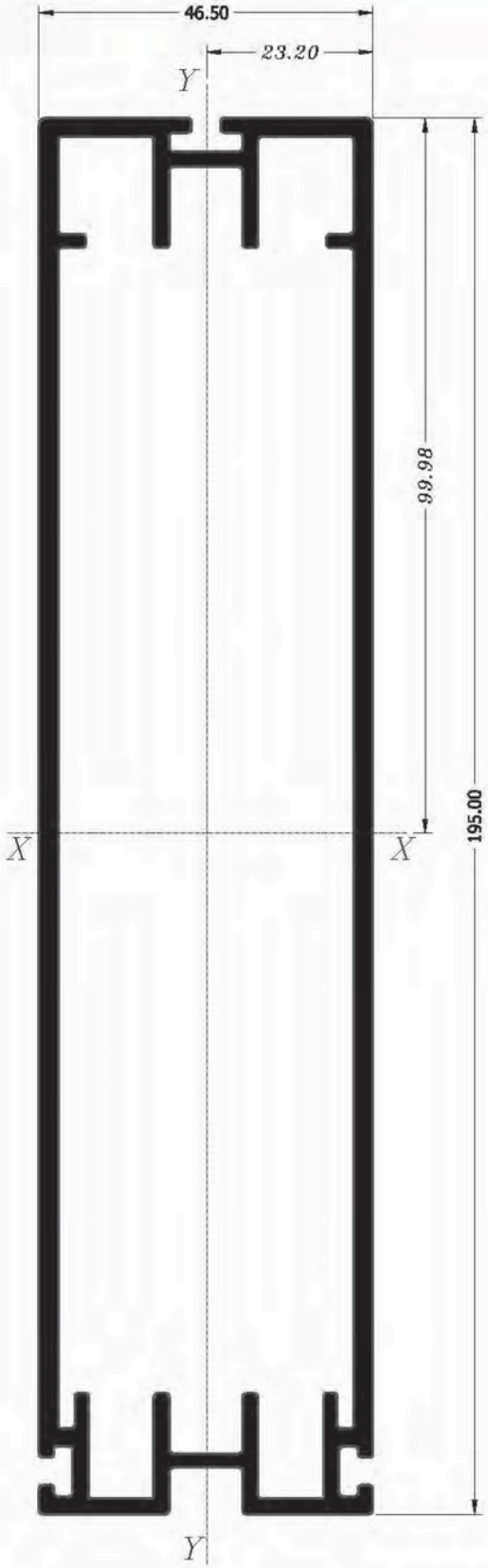


3 052 4121

2.968 Kg./ml.

$I_x = 438.20$ Cm^4

$I_y = 40.81$ Cm^4

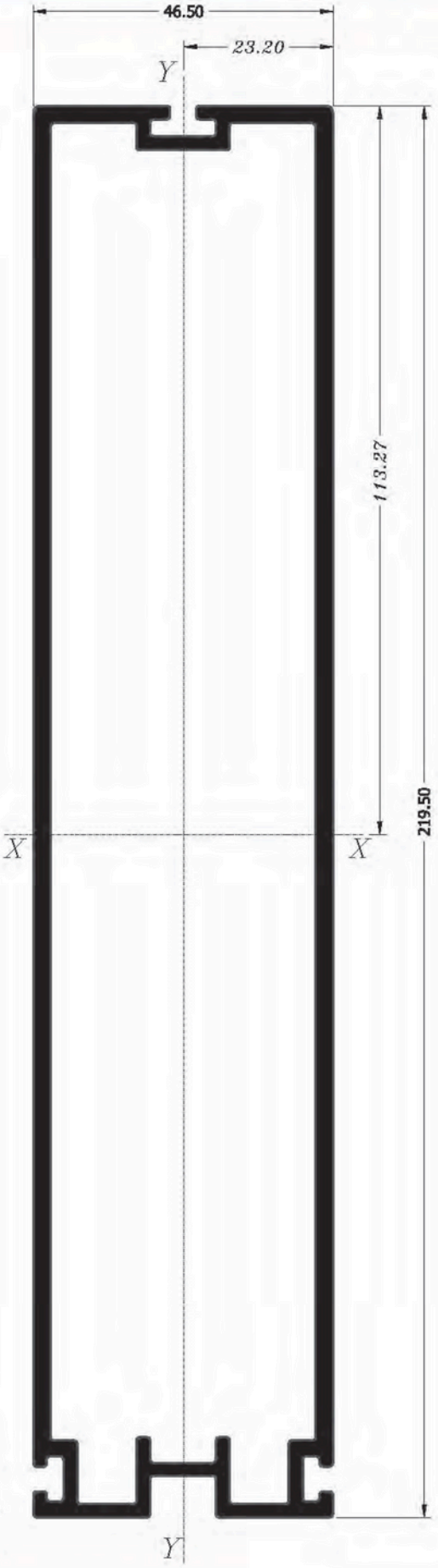


3 052 4122

3.386 Kg./ml.

$I_x = 596.19$ Cm^4

$I_y = 44.94$ Cm^4

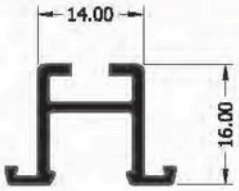


3 052 4124

3.380 Kg./ml.

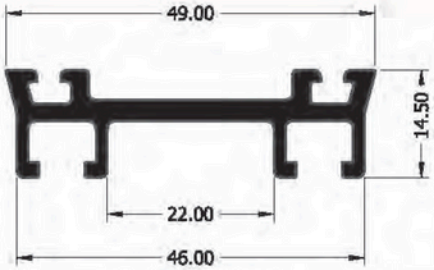
$I_x = 703.77$ Cm^4

$I_y = 48.43$ Cm^4



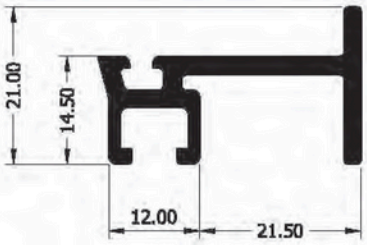
3 052 5001

0.193 Kg./ml.



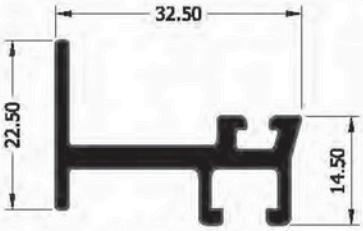
3 052 5011

0.601 Kg./ml.



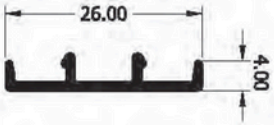
3 052 5511

0.439 Kg./ml.



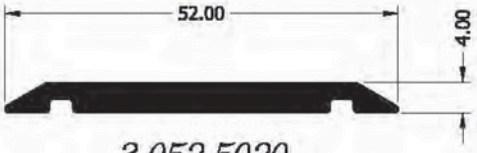
3 052 5072

0.444 Kg./ml.



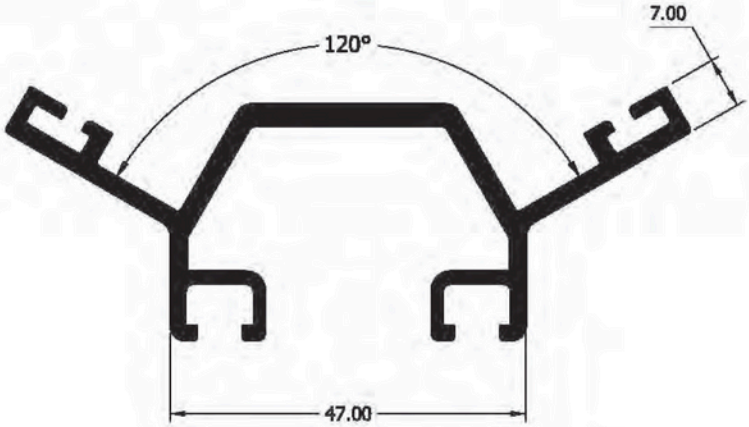
3 052 5201

0.128 Kg./ml.



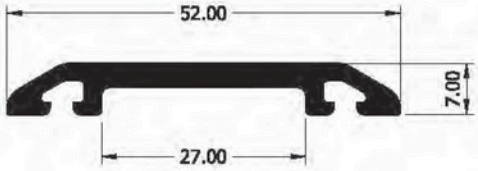
3 052 5020

0.477 Kg./ml.



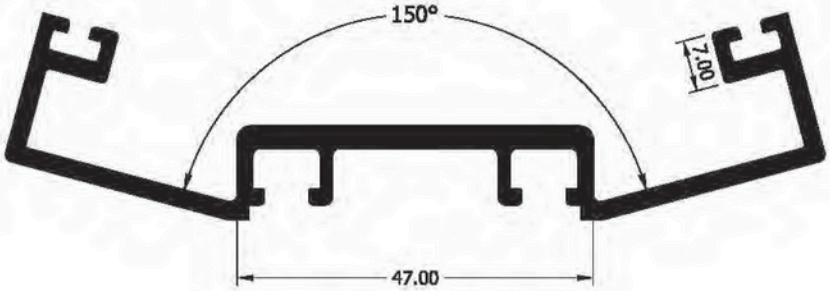
3 052 5111

1.150 Kg./ml.



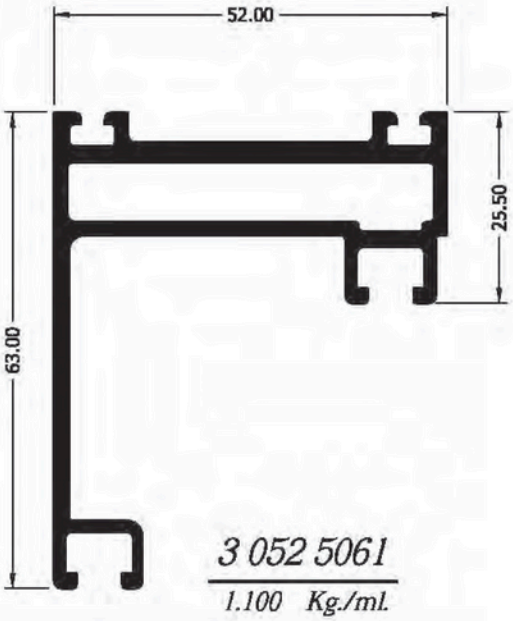
3 052 5021

0.460 Kg./ml.



3 052 5131

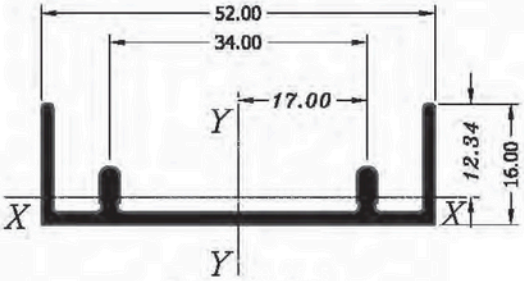
1.176 Kg./ml.



3 052 5061

1.100 Kg./ml.

Profile No.	3 052 5011	3 052 5020	3 052 5021	3 052 5111
Profile Old No.	CW 5221	CW 5240	CW 5241	CW 5222

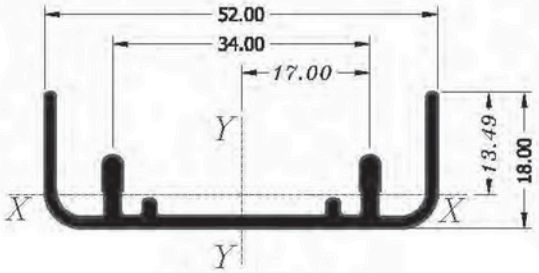


3 052 5251

0.394 Kg./ml.

I_x = 0.25 Cm^4

I_y = 5.17 Cm^4

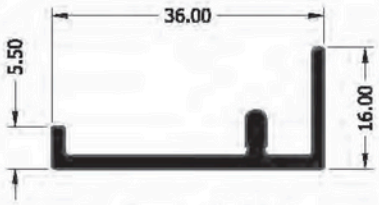


3 052 5261

0.433 Kg./ml.

I_x = 0.36 Cm^4

I_y = 5.55 Cm^4

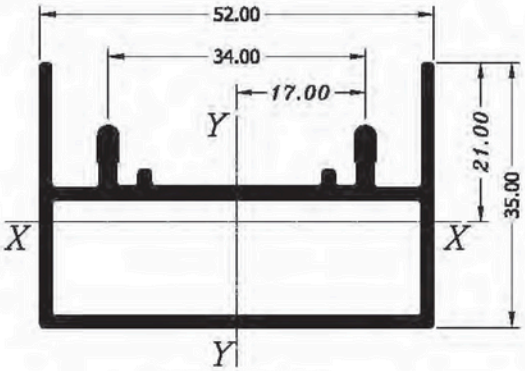


3 052 5271

0.254 Kg./ml.

I_x = 0.13 Cm^4

I_y = 1.34 Cm^4

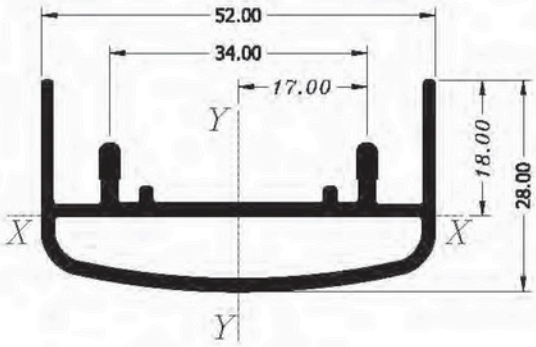


3 052 5253

0.747 Kg./ml.

I_x = 2.69 Cm^4

I_y = 10.09 Cm^4

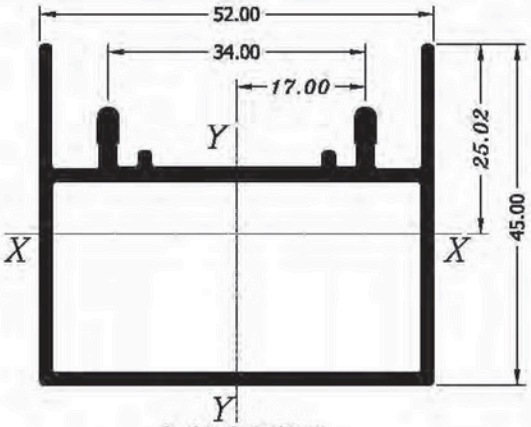


3 052 5352

0.696 Kg./ml.

I_x = 1.20 Cm^4

I_y = 8.49 Cm^4

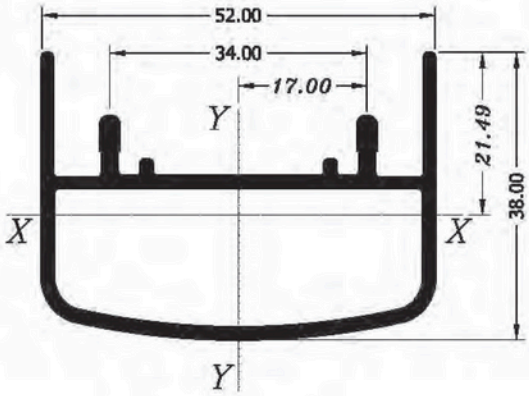


3 052 5254

0.820 Kg./ml.

I_x = 5.75 Cm^4

I_y = 11.89 Cm^4



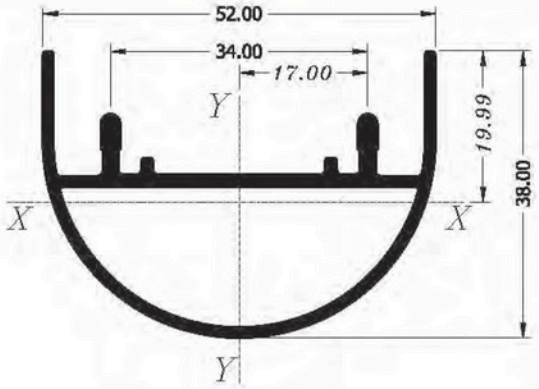
3 052 5353

0.780 Kg./ml.

I_x = 3.18 Cm^4

I_y = 10.40 Cm^4

Profile No.	3 052 5251	3 052 5261	3 052 5352
Profile Old No.	CW 5225	CW 5226	CW 5227

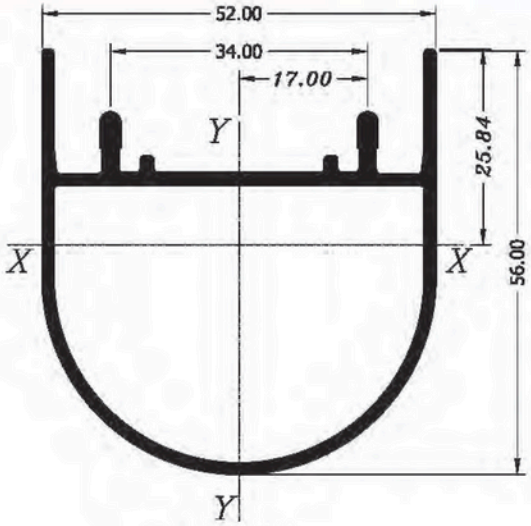


3 052 5363

0.721 Kg./ml.

I_x = 2.48 Cm^4

I_y = 8.48 Cm^4

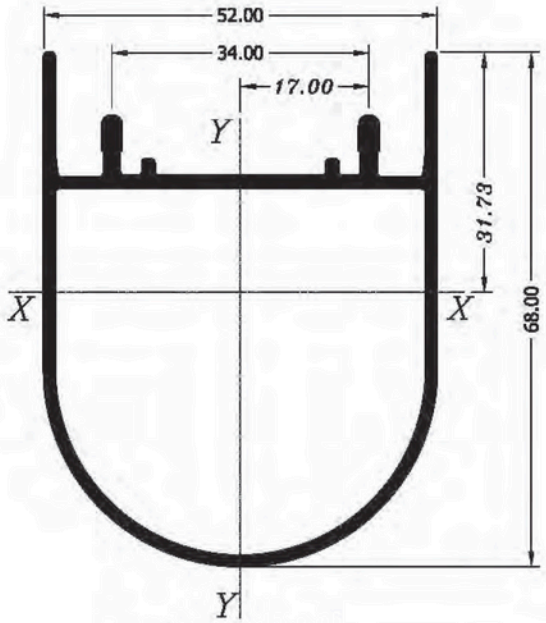


3 052 5365

0.815 Kg./ml.

I_x = 7.81 Cm^4

I_y = 11.29 Cm^4

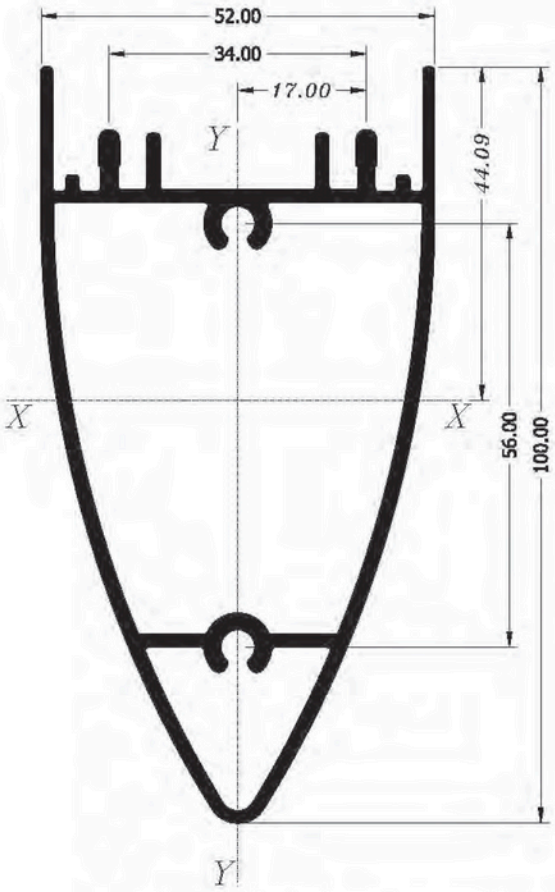


3 052 5366

0.900 Kg./ml.

I_x = 15.16 Cm^4

I_y = 14.32 Cm^4



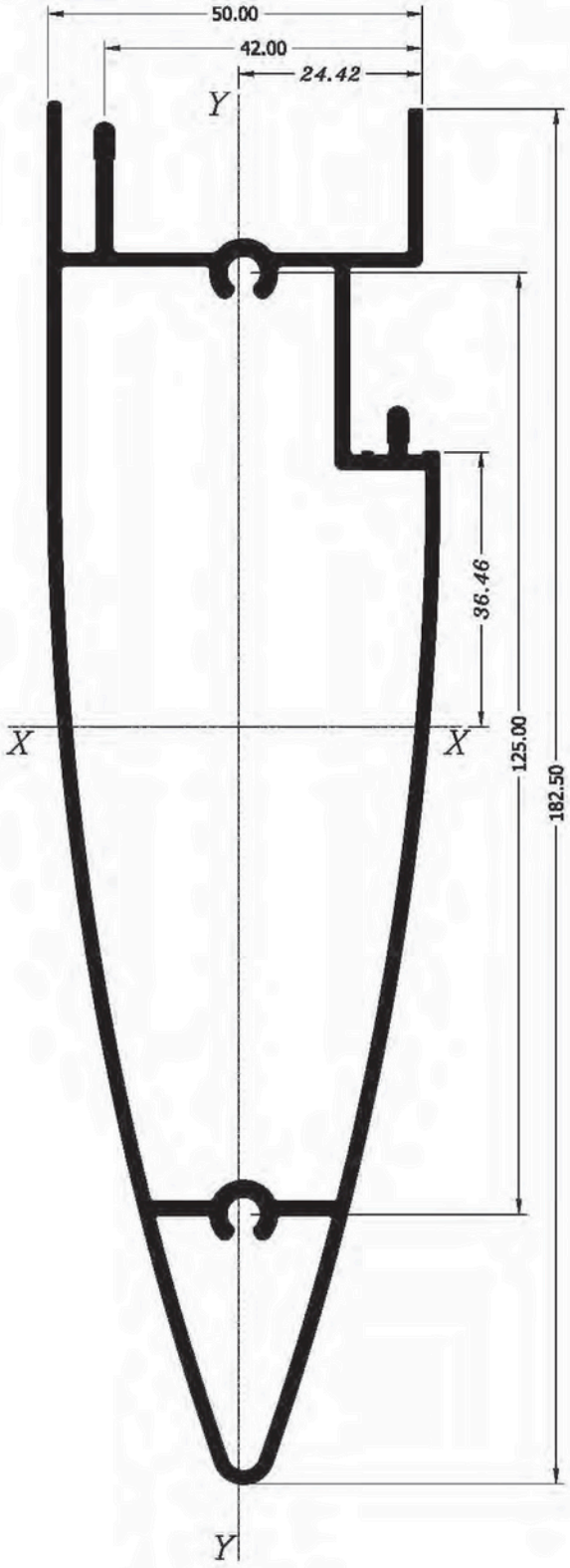
3 052 5510

1.441 Kg./ml.

I_x = 46.56 Cm^4

I_y = 15.57 Cm^4

Profile No.	*3 052 5366*
Profile Old No.	*CW 5229*

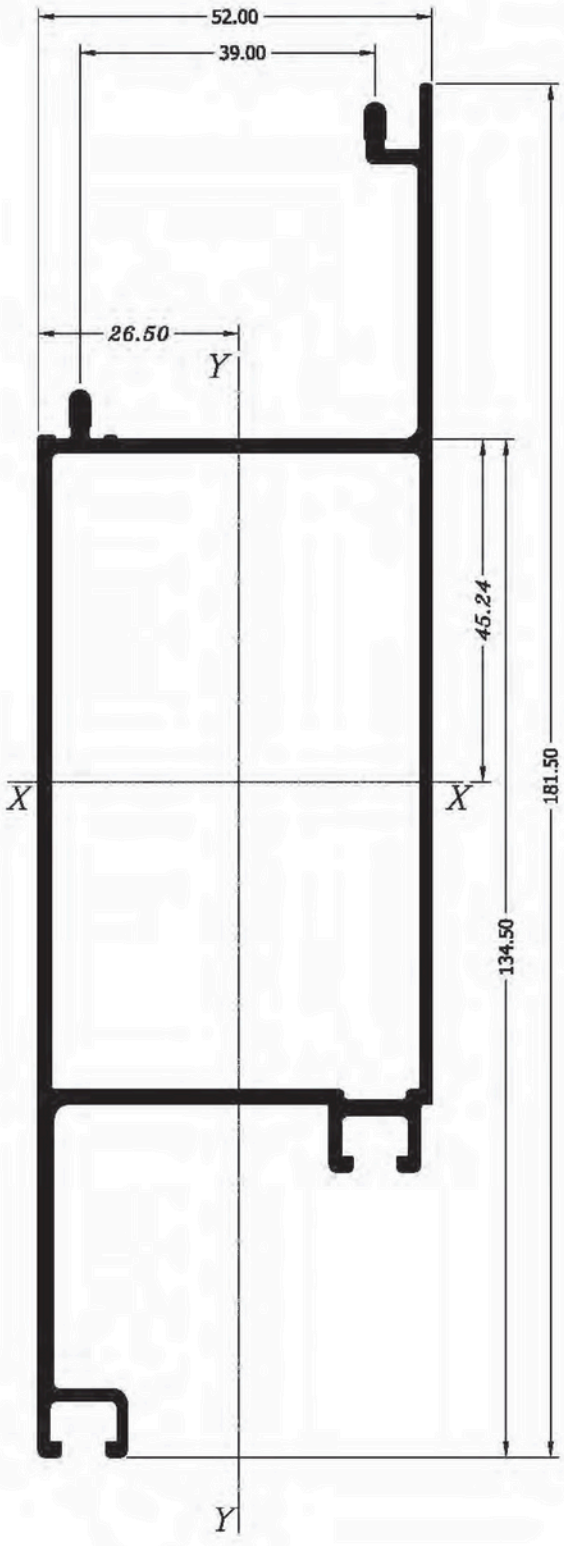


3 052 5520

2.150 Kg./ml.

$I_x = 247.00$ Cm^4

$I_y = 25.81$ Cm^4

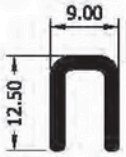


3 052 5914

1.750 Kg./ml.

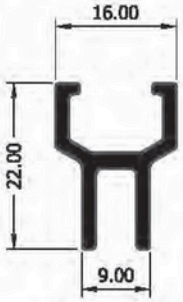
$I_x = 155.37$ Cm^4

$I_y = 32.32$ Cm^4



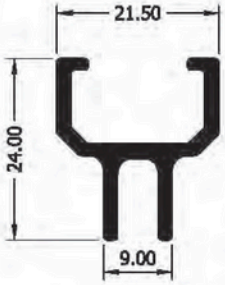
3 052 6000

0.116 Kg./ml.



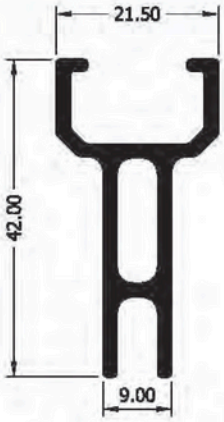
3 052 6001

0.251 Kg./ml.



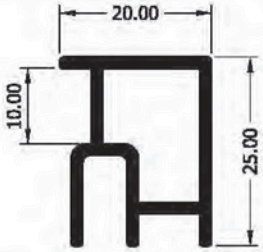
3 052 6002

0.300 Kg./ml.



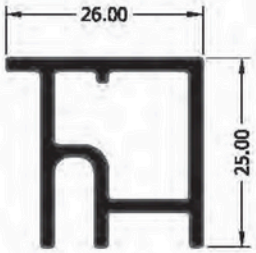
3 052 6004

0.485 Kg./ml.



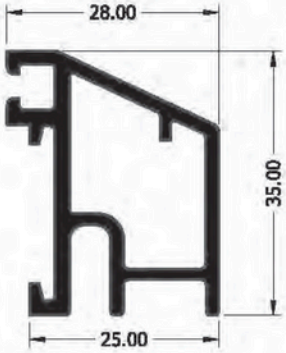
3 052 6012

0.377 Kg./ml.



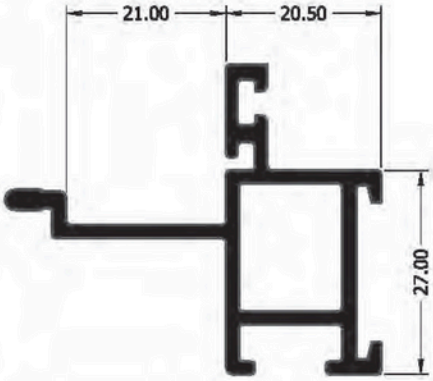
3 052 6013

0.421 Kg./ml.



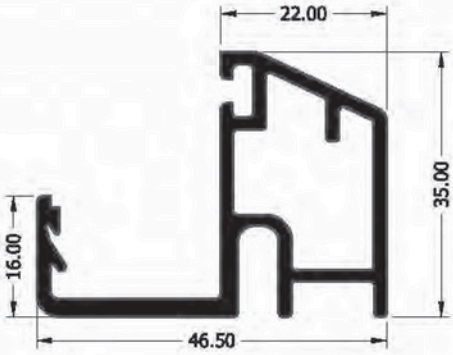
3 052 6023

0.563 Kg./ml.



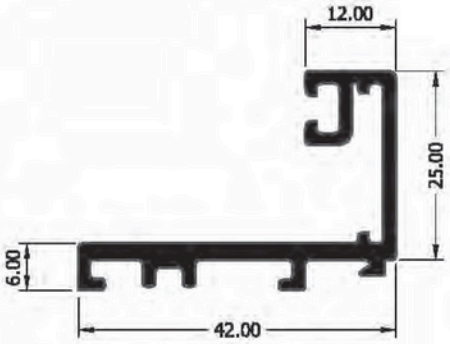
3 052 6026

0.663 Kg./ml.



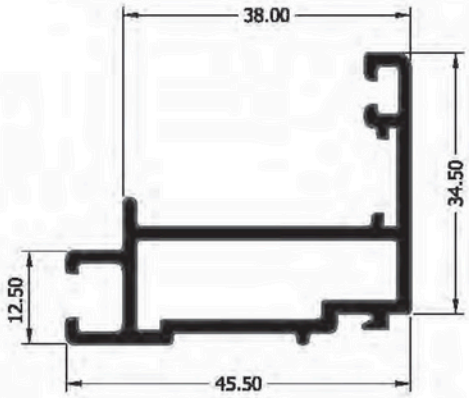
3 052 6042

0.767 Kg./ml.



3 052 6101

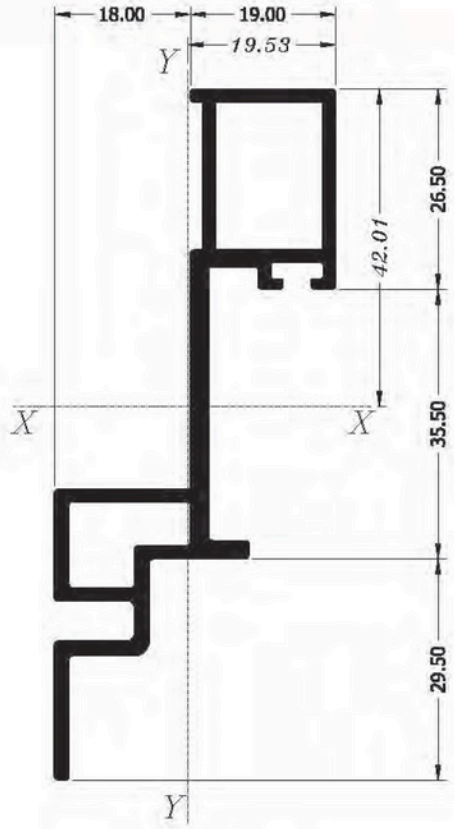
0.535 Kg./ml.



3 052 6111

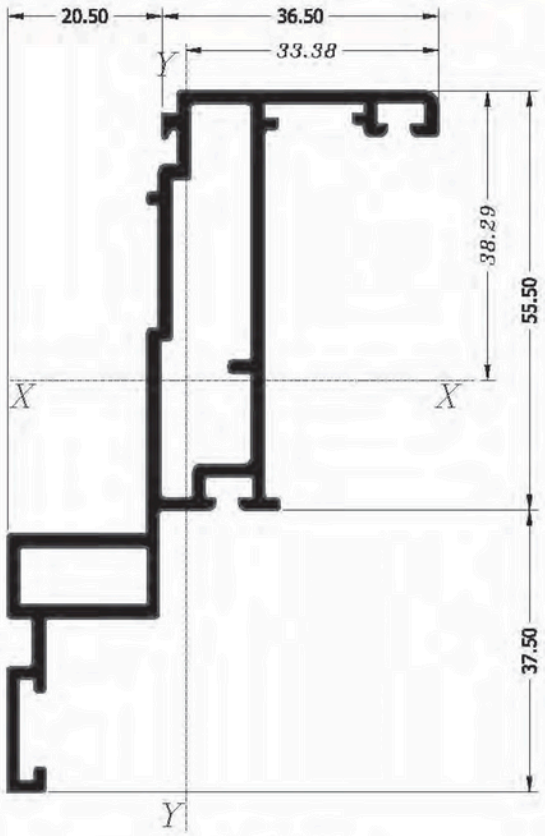
0.656 Kg./ml.

Profile No.	3 052 6001	3 052 6002	3 052 6012	3 052 6013	3 052 6023	3 052 6042	3 052 6101	3 052 6111
Profile Old No.	CW 5291	CW 5292	CW 5296	CW 5297	CW 5295	CW 5299	CW 6296	CW 5283



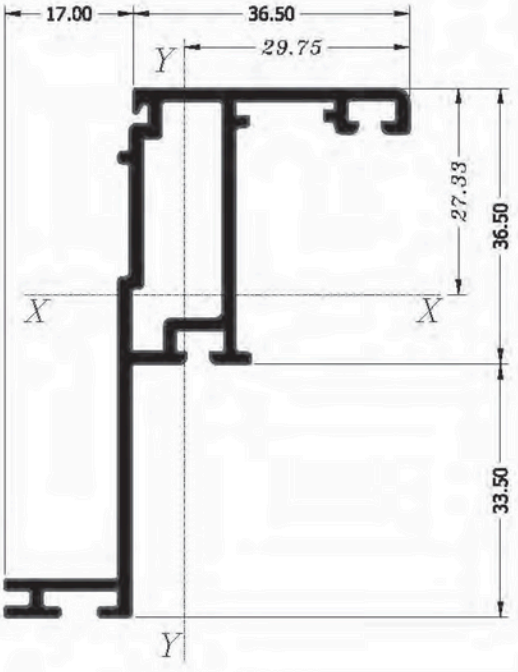
3 052 6120

1.003 Kg./ml.



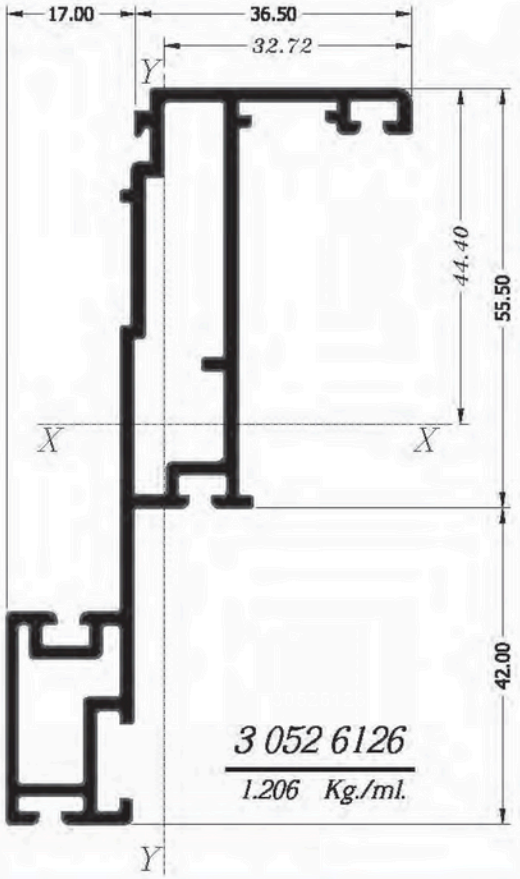
3 052 6121

1.113 Kg./ml.



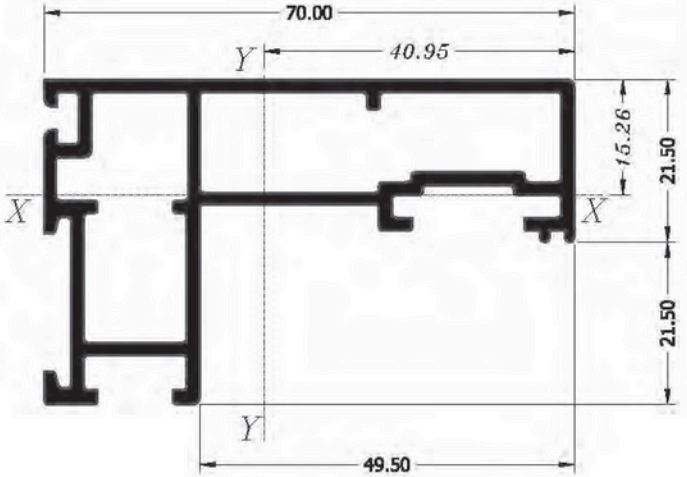
3 052 6122

0.826 Kg./ml.



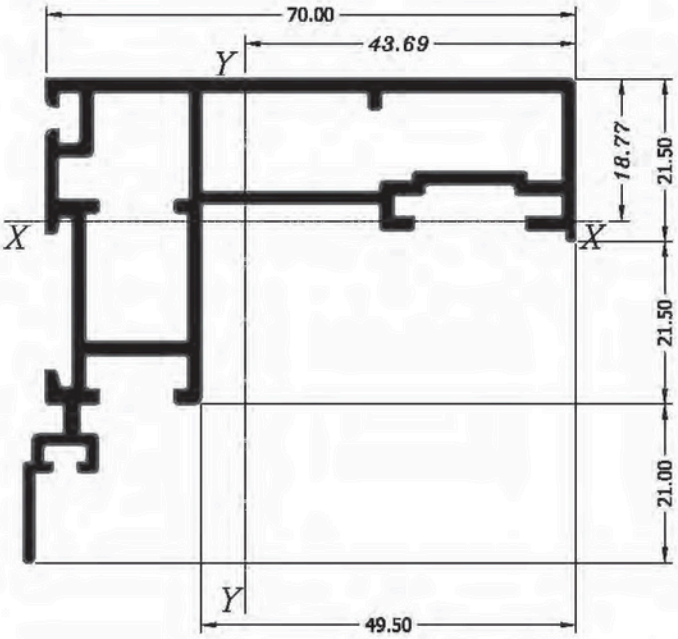
3 052 6126

1.206 Kg./ml.



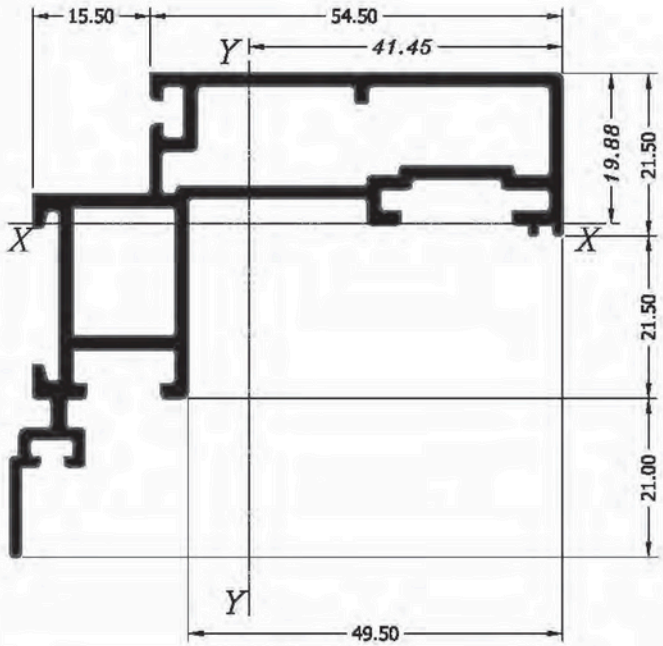
3 052 6215

1.128 Kg./ml.



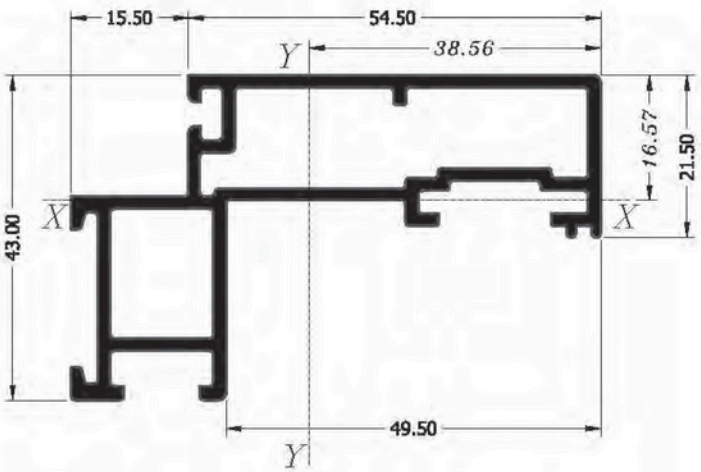
3 052 6255

1.259 Kg./ml.



3 052 6265

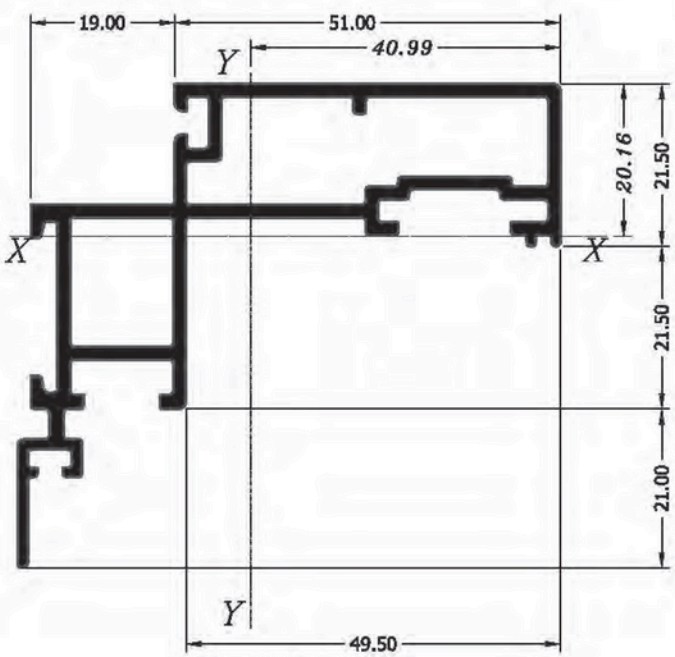
1.184 Kg./ml.



3 052 6266

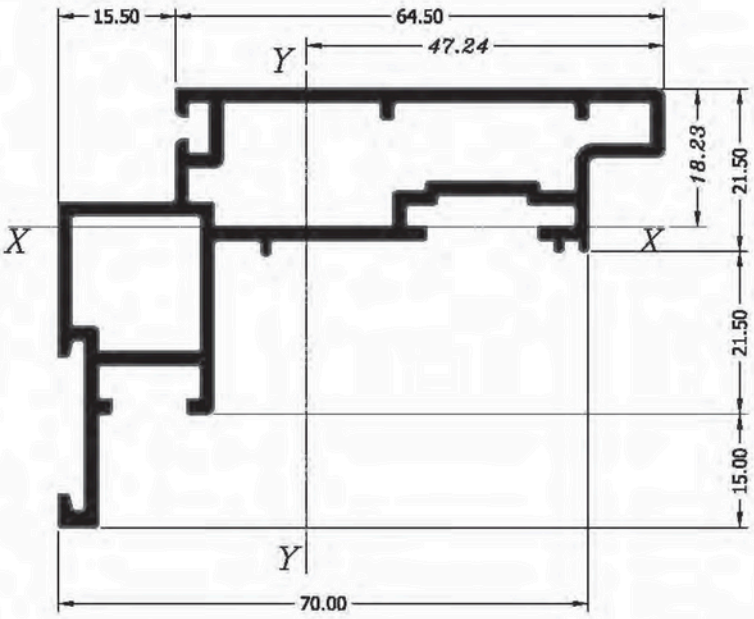
1.050 Kg./ml.

Profile No.	3 052 6255	3 052 6265
Profile Old No.	CW 5288	CW 5289



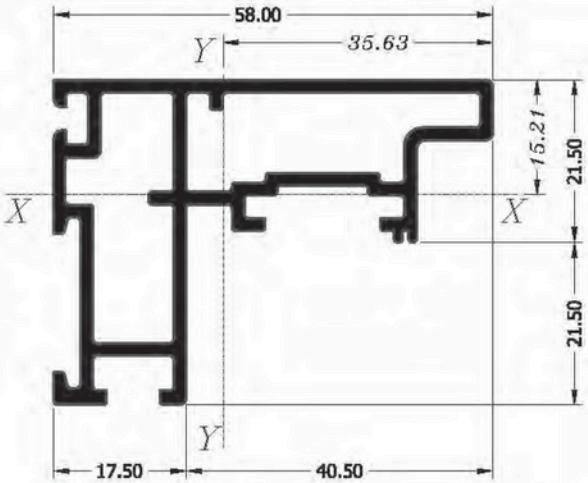
3 052 6267

1.149 Kg./ml.



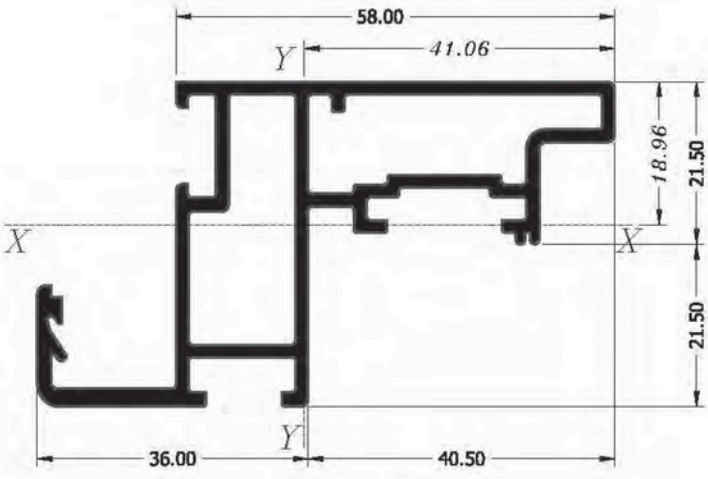
3 052 6286

1.222 Kg./ml.



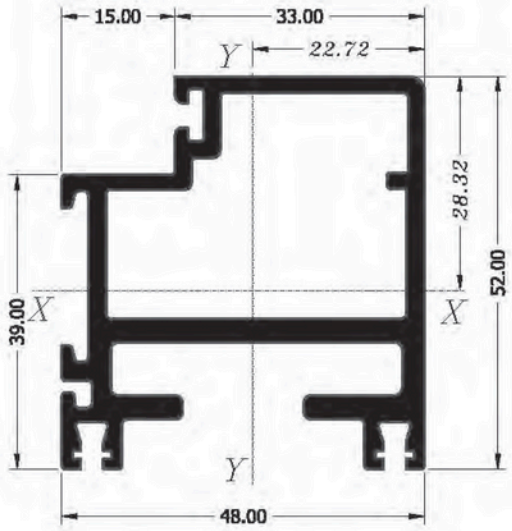
3 052 6313

1.025 Kg./ml.



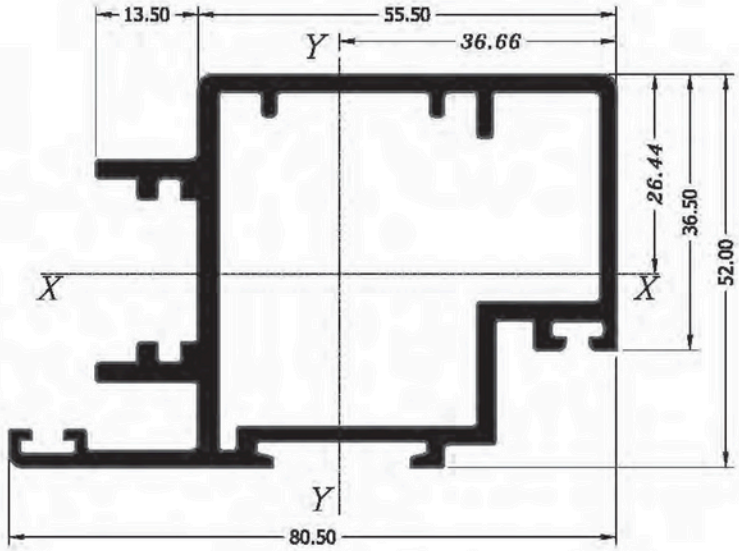
3 052 6333

1.186 Kg./ml.



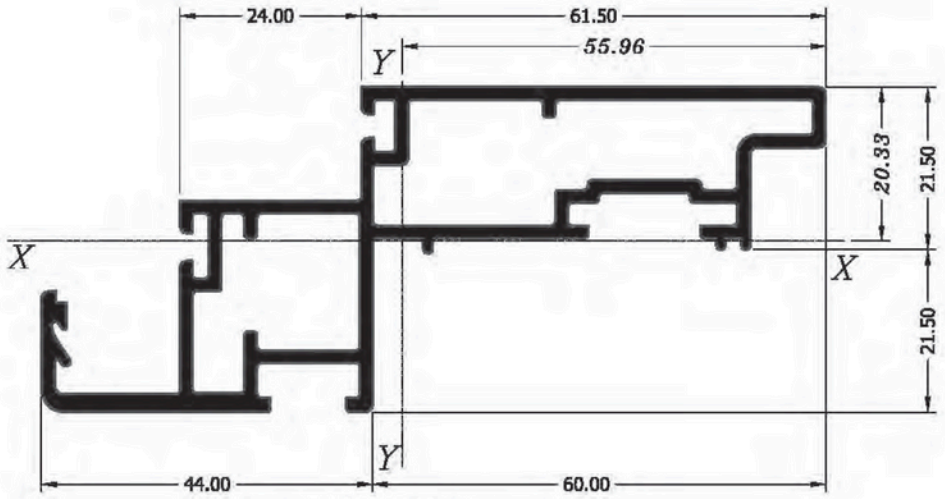
3 052 6295

1.537 Kg./ml.



3 052 6298

1.745 Kg./ml.



3 052 6346

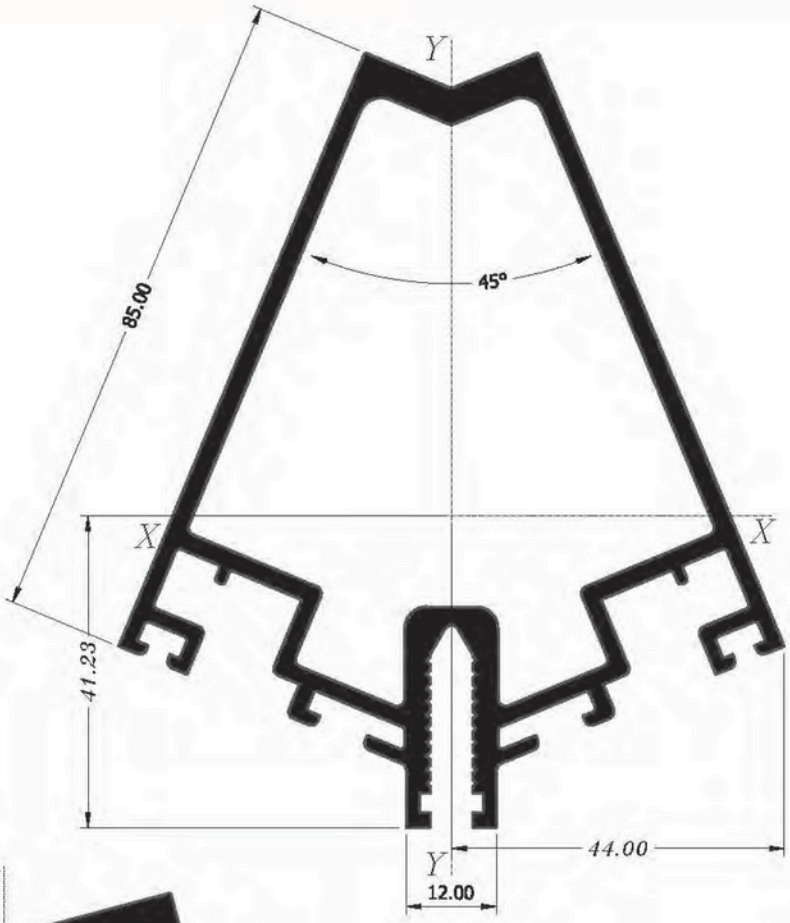
1.459 Kg./ml.

3 052 7123

2.602 Kg./ml.

I_x = 89.60 Cm^4

I_y = 47.69 Cm^4

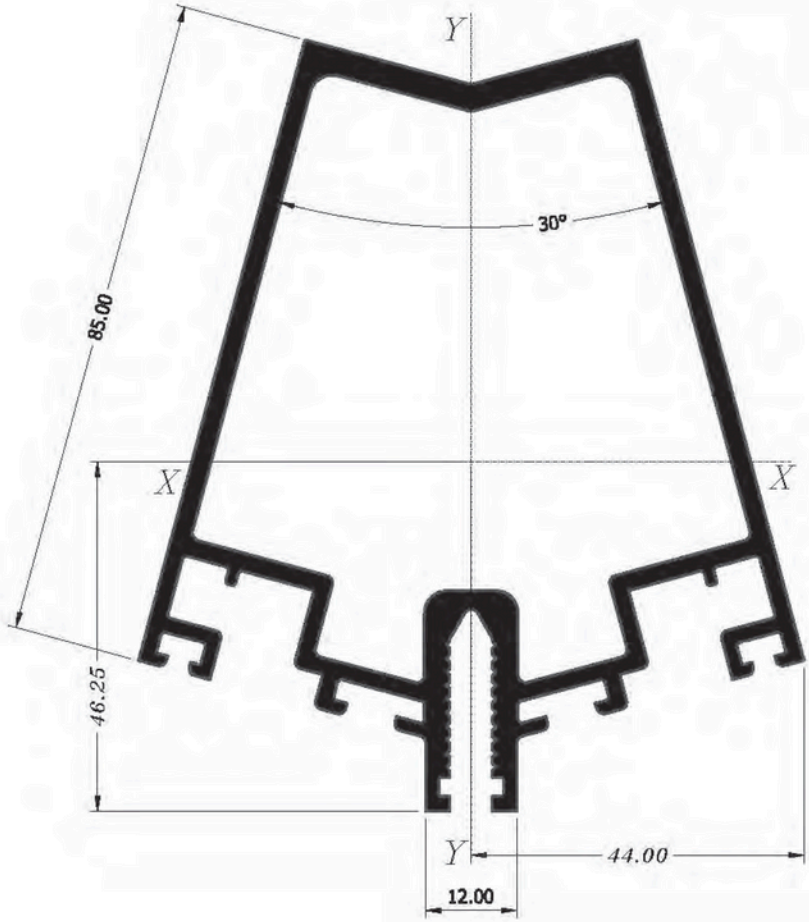


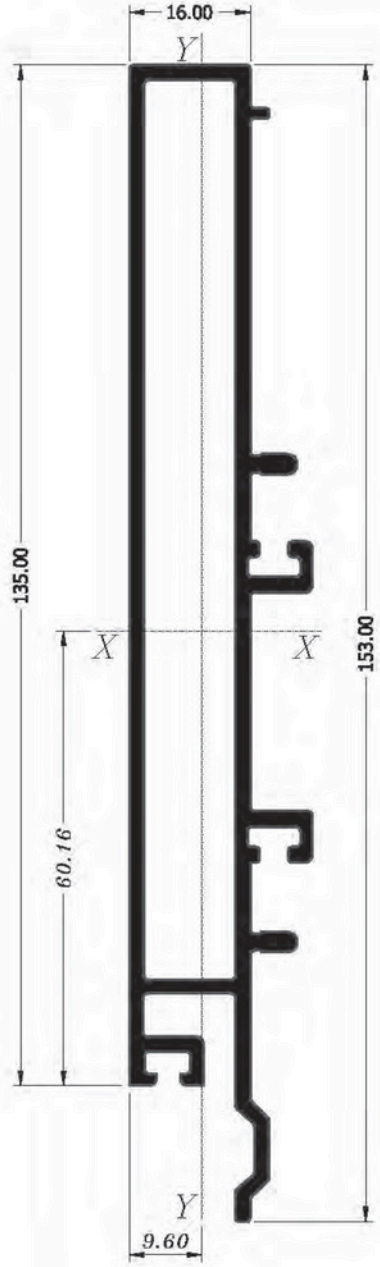
3 052 7133

2.529 Kg./ml.

I_x = 100.68 Cm^4

I_y = 56.33 Cm^4



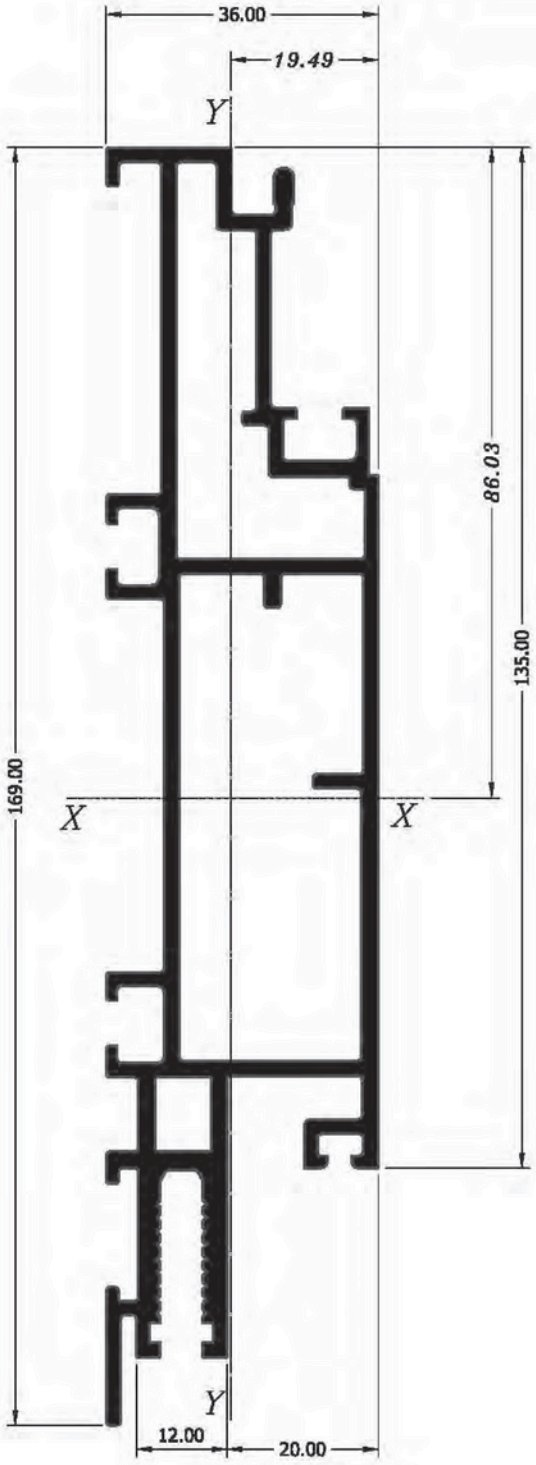


3 052 8013

1.763 Kg./ml.

$I_x = 123.00$ Cm^4

$I_y = 3.55$ Cm^4

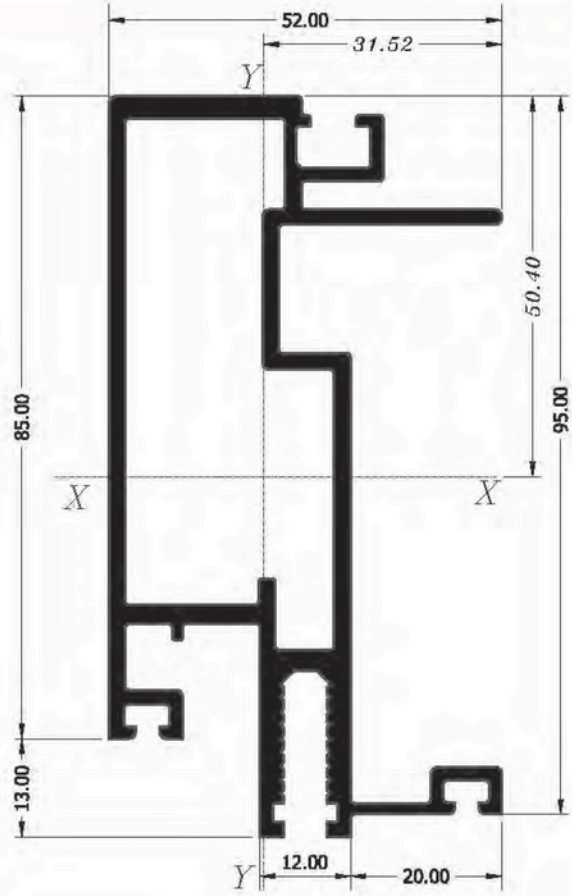


3 052 8213

2.696 Kg./ml.

$I_x = 240.49$ Cm^4

$I_y = 13.14$ Cm^4

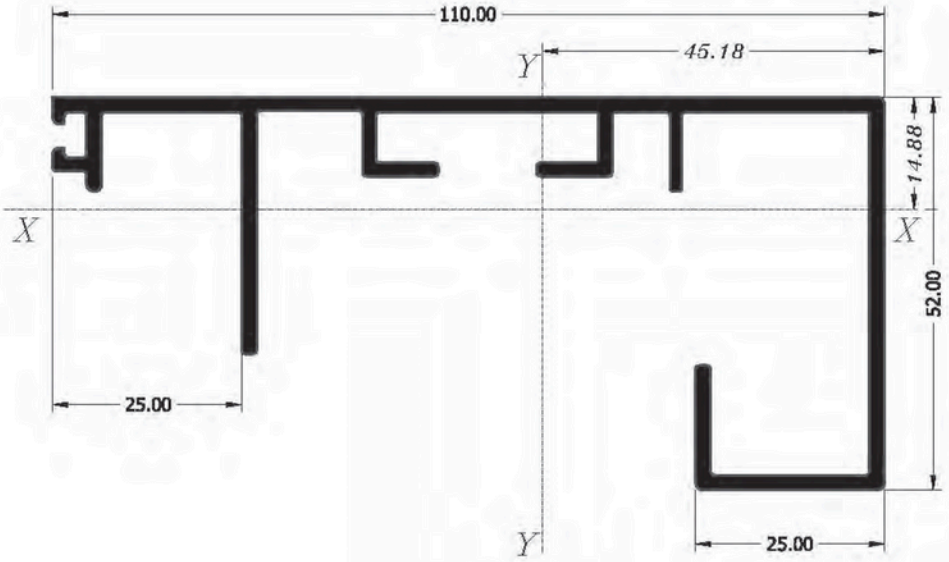


3 052 8208

2.103 Kg./ml.

$I_x = 105.35$ Cm^4

$I_y = 15.95$ Cm^4

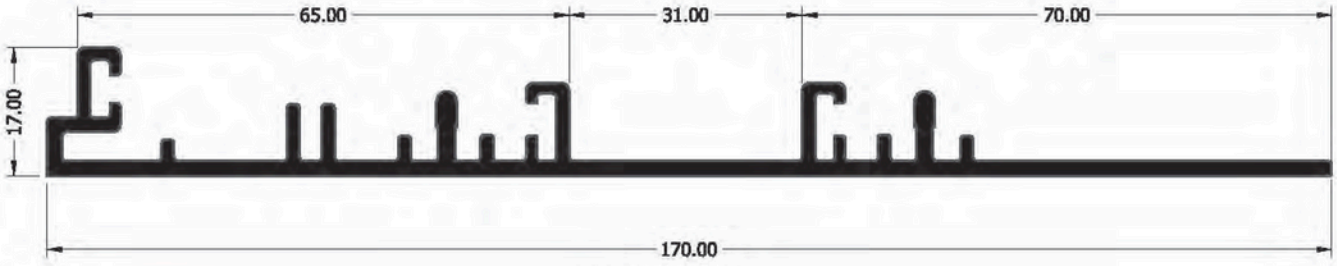


3 052 9232

1.361 Kg./ml.

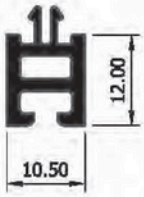
$I_x = 64.67$ Cm^4

$I_y = 15.63$ Cm^4



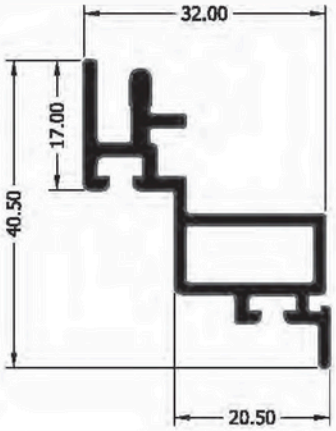
3 052 9231

1.303 Kg./ml.



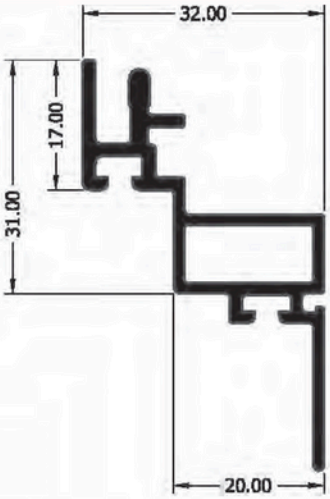
3 052 9611

0.189 Kg./ml.



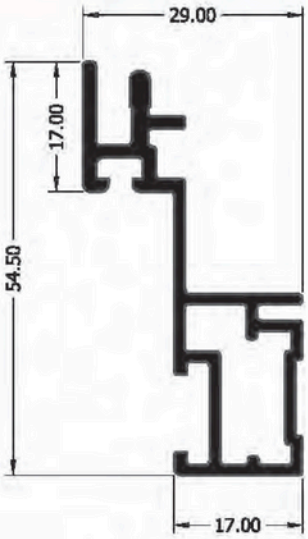
3 052 9465

0.489 Kg./ml.



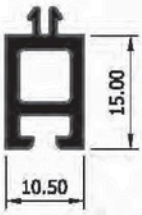
3 052 9466

0.547 Kg./ml.



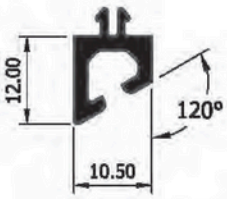
3 052 9467

0.587 Kg./ml.



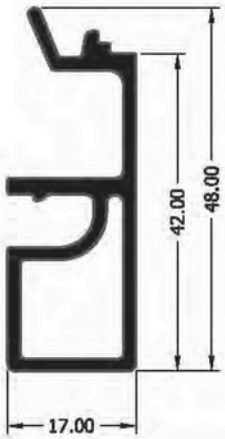
3 052 9612

0.208 Kg./ml.



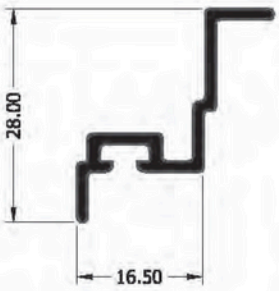
3 052 9623

0.149 Kg./ml.



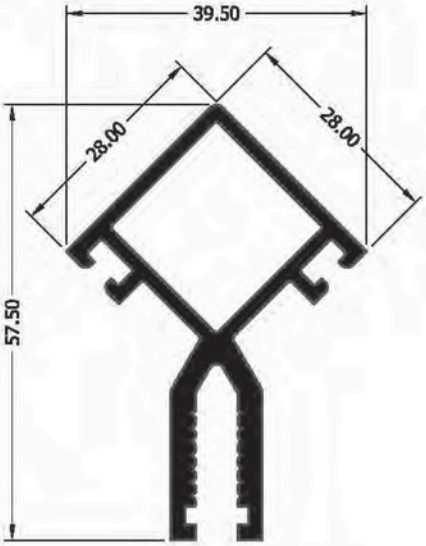
3 052 9164

0.545 Kg./ml.



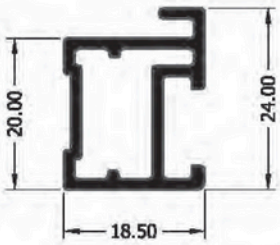
3 052 9495

0.204 Kg./ml.



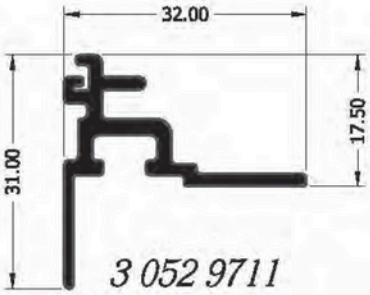
3 052 9510

0.899 Kg./ml.



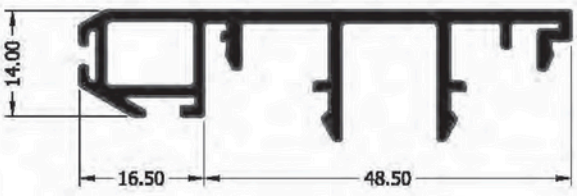
3 052 9613

0.312 Kg./ml.



3 052 9711

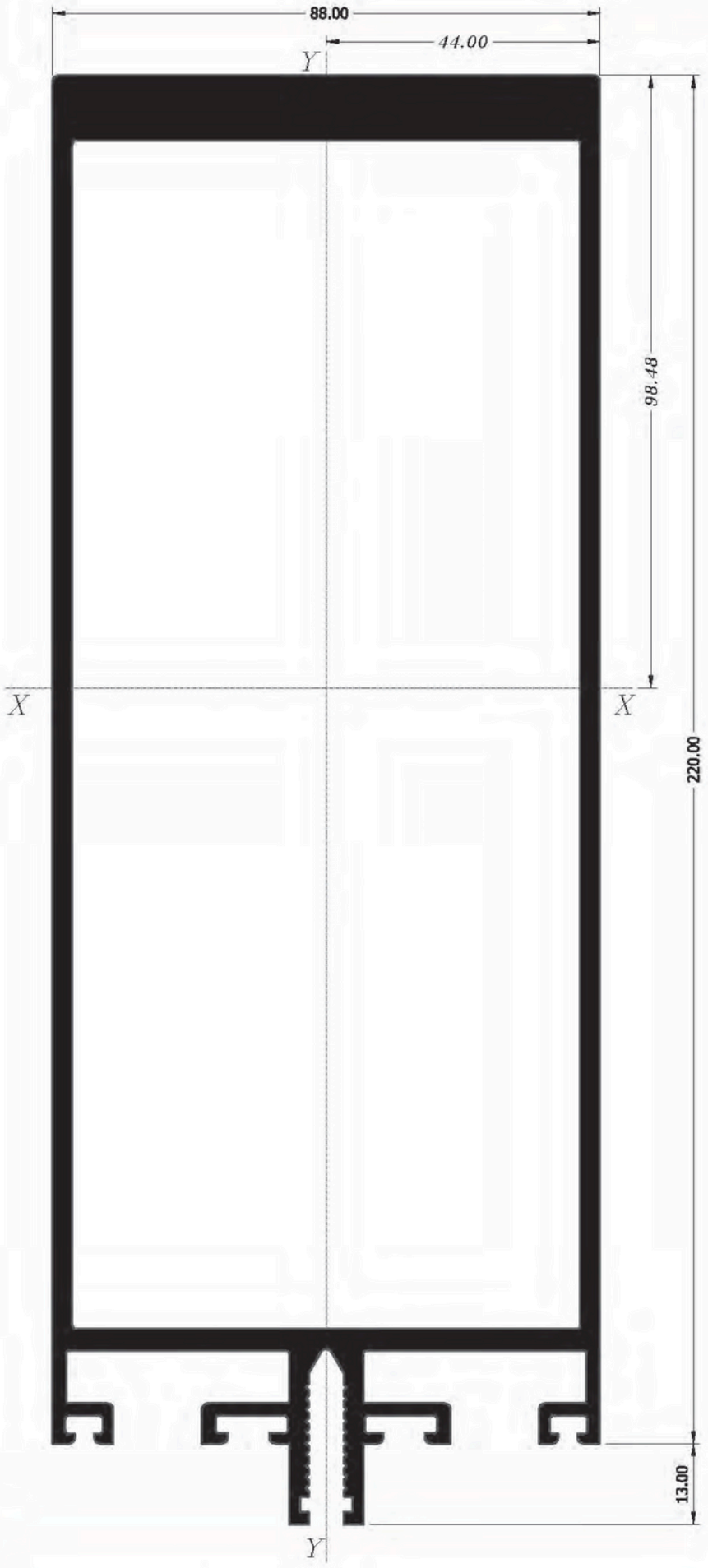
0.339 Kg./ml.



3 052 9496

0.594 Kg./ml.

Profile No.	3 052 9164	3 052 9465	3 052 9611	3 052 9612	3 052 9623
Profile Old No.	CW 5279	CW 5274	CW 5261	CW 5263	CW 5262



3 088 1123

7.277 Kg./ml.

$I_x = 1961.55\ Cm^4$

$I_y = 302.44\ Cm^4$



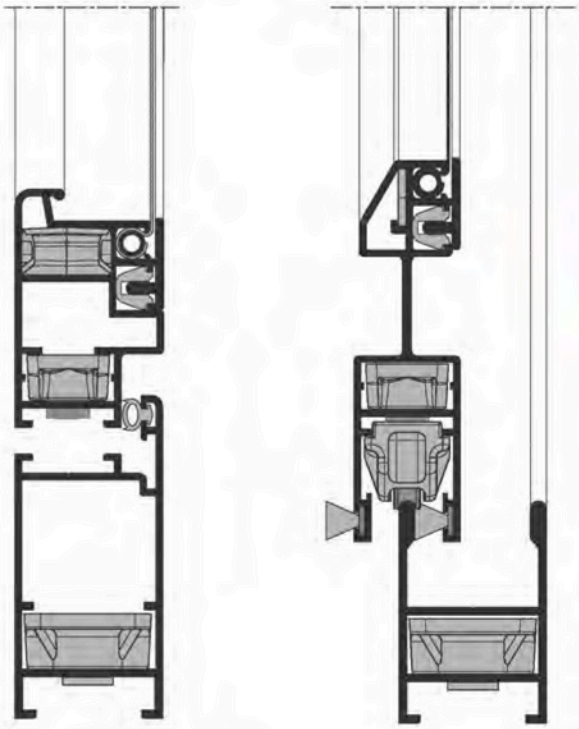
KITO 20

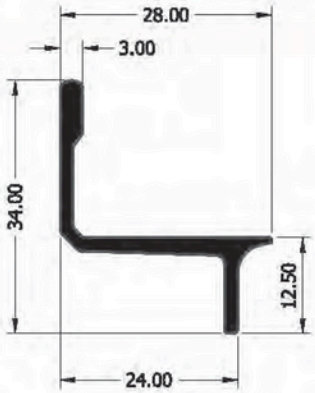
Fly-Screen System

- Complete fly screen solution to keep out insects, available in fixed, hinged and sliding opening.
- Compatible with most of our hinged, sliding and louvers systems.
- Can be assembled and installed independently or integrated with our systems.
- Innovative cover for fly screen gasket connection.
- Frame and sash with profiles at 45°.

Technical Characteristics

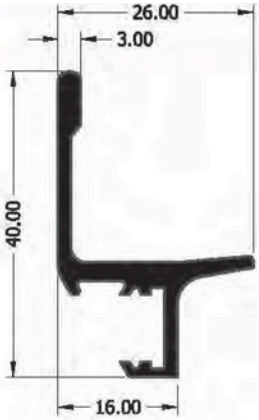
Frame	Depth	28 mm.
	Height	42 mm. to 61 mm.
Sash	Depth	14 mm. to 28 mm.
	Height	35 mm. to 72 mm.





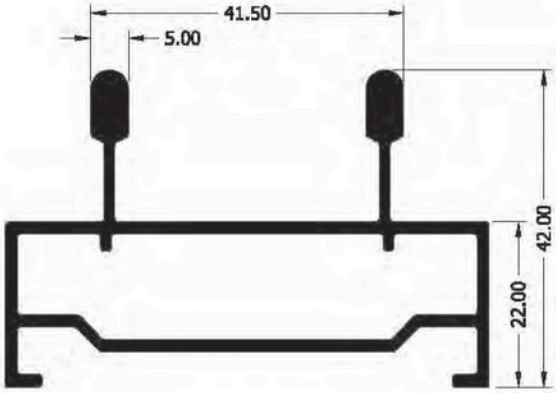
5 025 1060

0.319 Kg./ml.



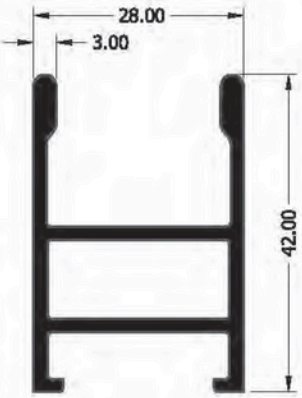
5 025 1110

0.351 Kg./ml.



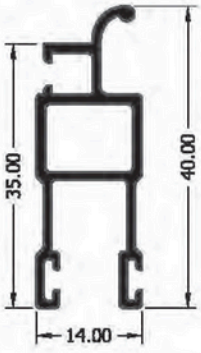
5 025 2060

0.941 Kg./ml.



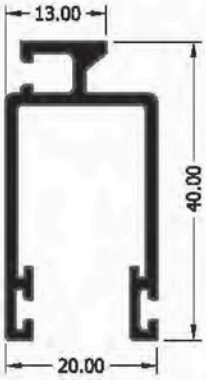
5 025 2110

0.590 Kg./ml.



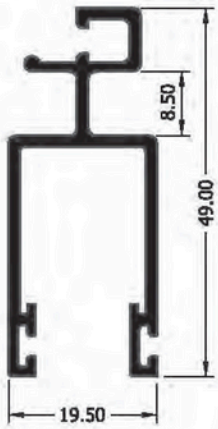
5 020 4210

0.313 Kg./ml.



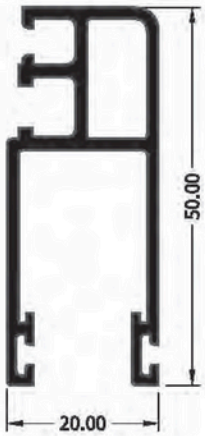
5 025 4100

0.419 Kg./ml.



5 025 4110

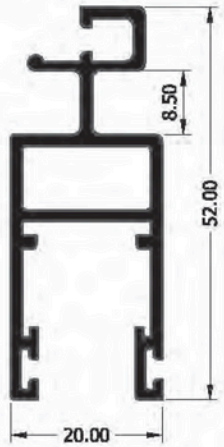
0.467 Kg./ml.



5 025 4140

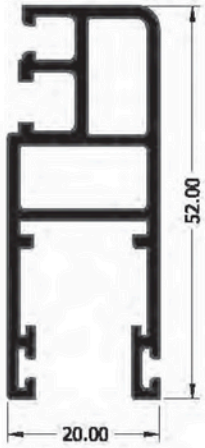
0.567 Kg./ml.

Profile No.	5 020 4210	5 025 1060	5 025 1110	5 025 2110	5 025 4100	5 025 4140
Profile Old No.	K 2224	K 2206	K 2210	K 2202	K 2222	K 2227



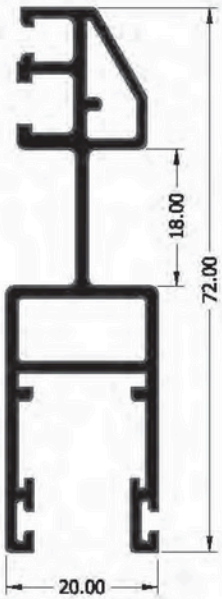
5 025 4210

0.535 Kg./ml.



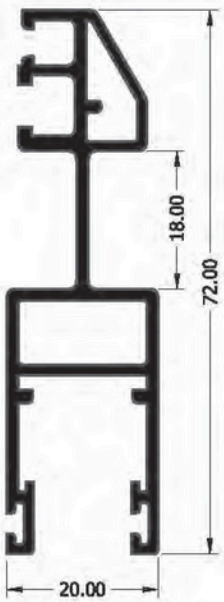
5 025 4240

0.594 Kg./ml.



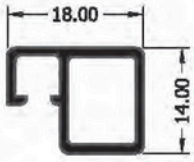
5 025 4230

0.728 Kg./ml.



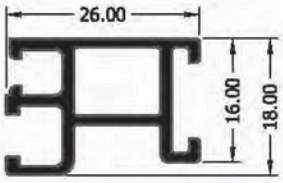
5 025 4231

0.728 Kg./ml.



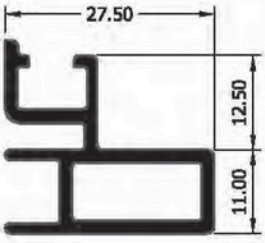
5 025 4810

0.165 Kg./ml.



5 025 4830

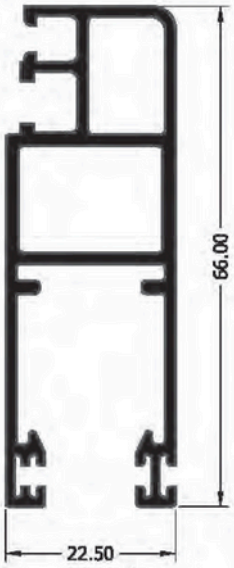
0.307 Kg./ml.



5 025 4832

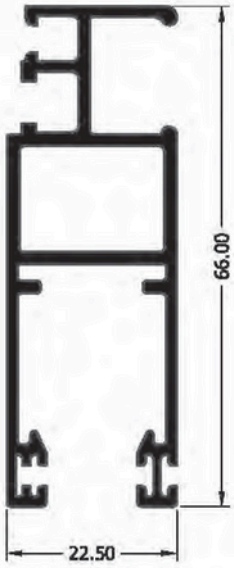
0.420 Kg./ml.

Profile No.	5 025 4210	5 025 4240
Profile Old No.	K 2223	K 2228



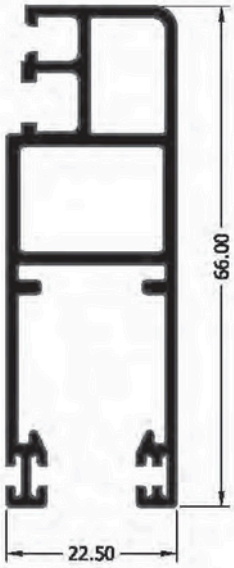
5 027 4240

0.760 Kg./ml.



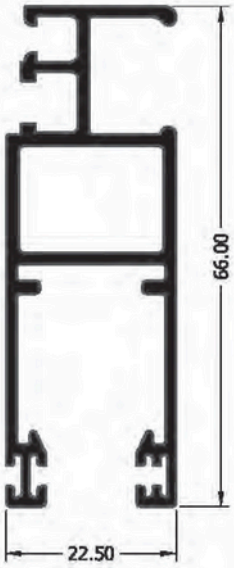
5 027 4241

0.752 Kg./ml.



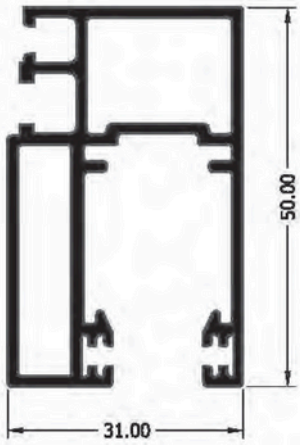
5 027 4270

0.760 Kg./ml.



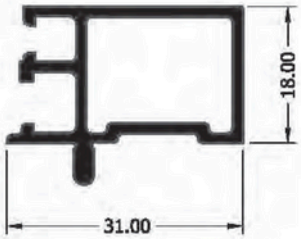
5 027 4271

0.752 Kg./ml.



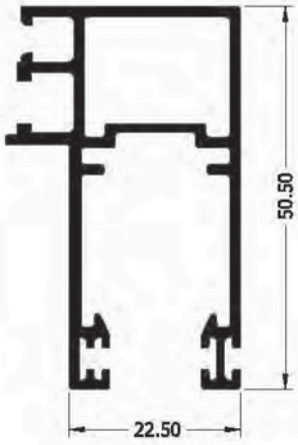
5 027 7420

0.788 Kg./ml.



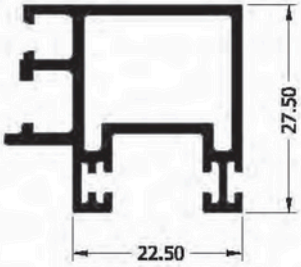
5 027 7421

0.373 Kg./ml.



5 027 7440

0.676 Kg./ml.



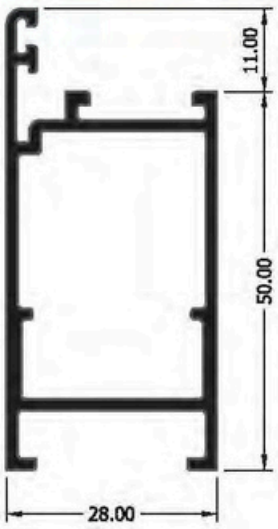
5 027 7541

0.478 Kg./ml.



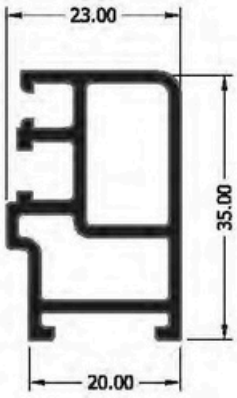
5 027 9410

0.297 Kg./ml.



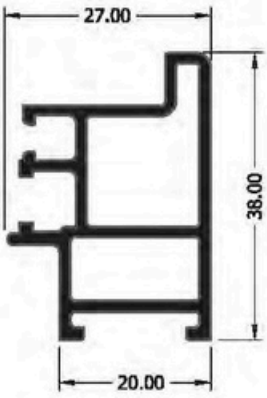
5 028 1210

0.634 Kg./ml.



5 028 4310

0.477 Kg./ml.



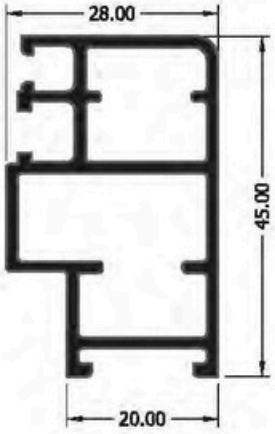
5 028 4311

0.514 Kg./ml.



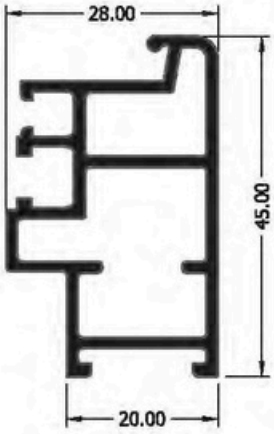
5 900 5020

0.375 Kg./ml.



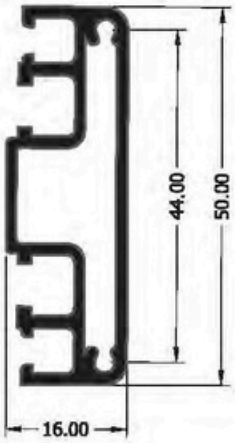
5 028 4460

0.630 Kg./ml.



5 028 4461

0.618 Kg./ml.



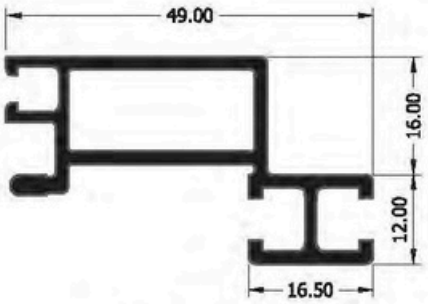
5 900 5410

0.610 Kg./ml.



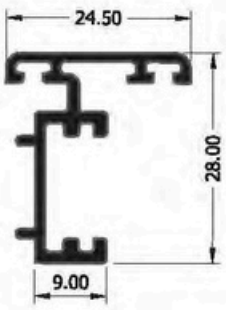
5 900 9100

0.100 Kg./ml.



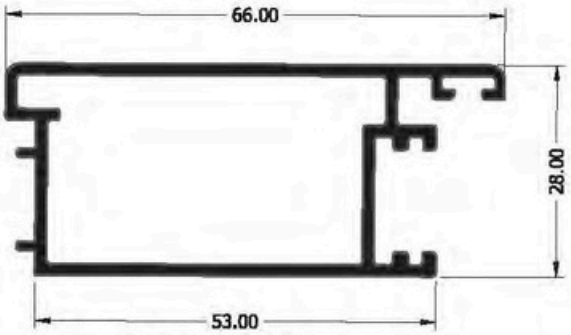
5 028 9210

0.615 Kg./ml.



5 028 9610

0.302 Kg./ml.



5 028 9620

0.672 Kg./ml.

Profile No.	5 028 1210	5 028 4310	5 028 9610	5 028 9620	5 900 5020	5 900 5410	5 900 9100
Profile Old No.	K 2231	K 2241	K 2273	K 2272	K 2251	K 2252	K 2281

ACACIA 50

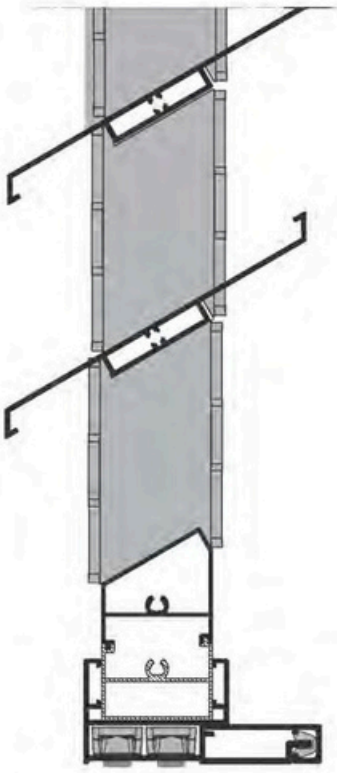
Shading System

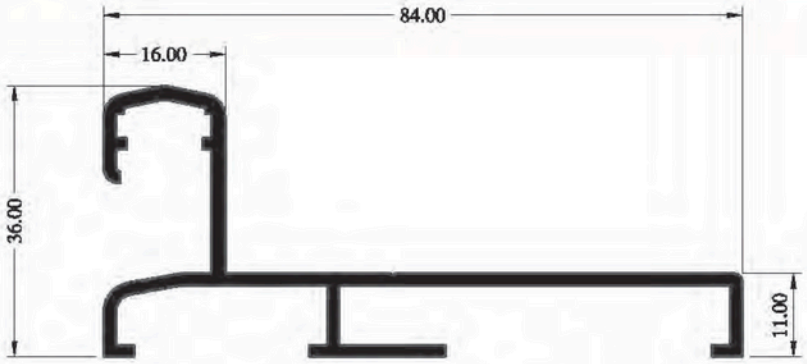


- Designed to provide effective natural ventilation solution and create a healthier indoor climate.
- Can be applied in different ways such as natural ventilation, sun shading and simple Fixed-Sliding-Hinged-Folding shutters systems.
- Several types of slats/blades are available vary in shapes, sizes and Installation methods.
- Provides effective protection against unwanted visitors.
- Compatible with most of our systems.

Technical Characteristics

Frame	Depth	40 mm. to 104 mm.
	Height	33 mm. to 36 mm.
Sash	Depth	45 mm.
	Height	50 mm. to 90 mm.
Slat	Depth	30 mm to 116 mm.
	Height	8 mm. to 60 mm.





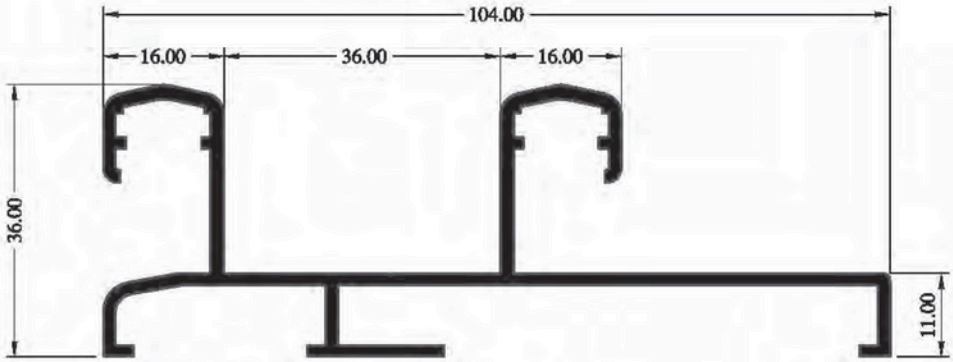
C 5011

0.794 Kg./ml.



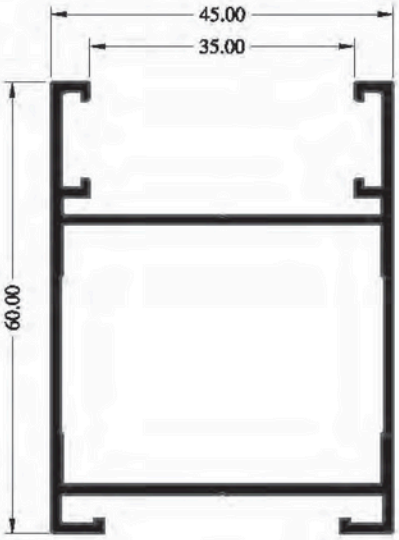
C 5003

0.290 Kg./ml.



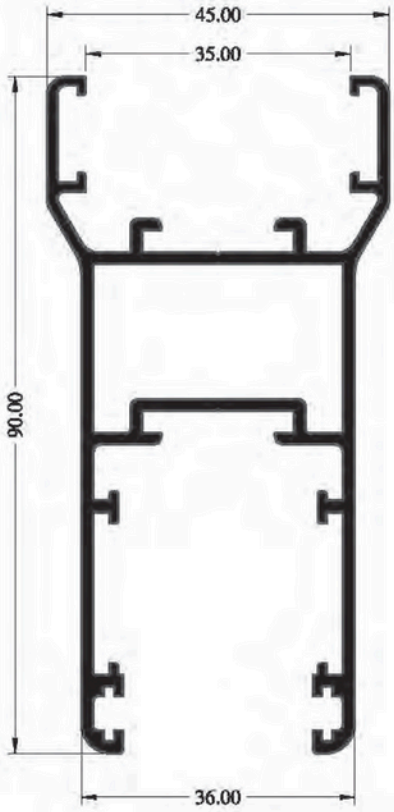
C 5012

1.119 Kg./ml.



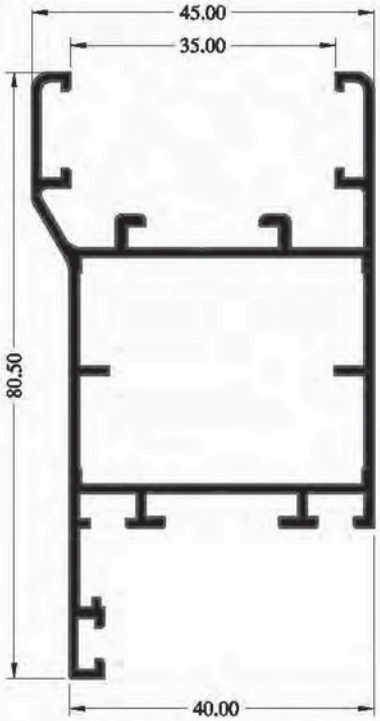
C 5007

0.832 Kg./ml.



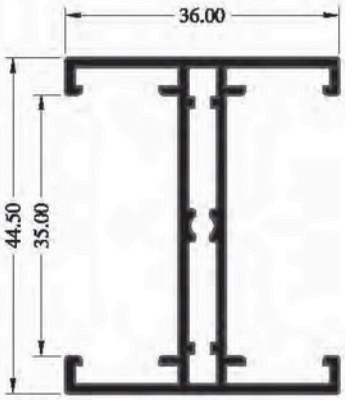
C 5042

1.341 Kg./ml.



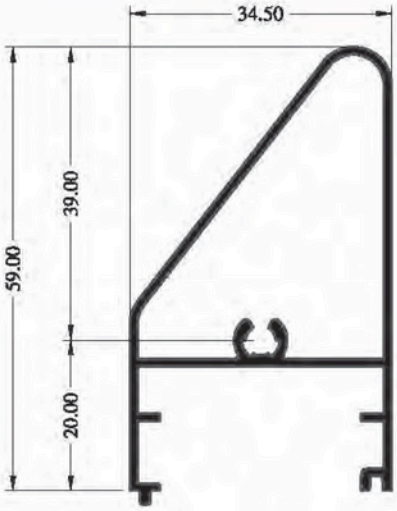
C 5025

0.955 Kg./ml.

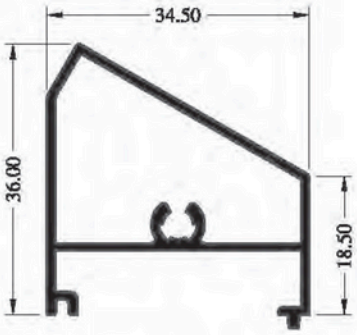


C 5051

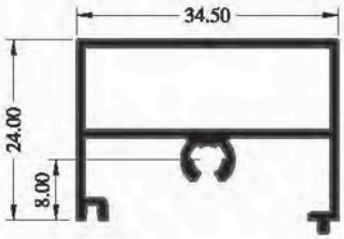
0.619 Kg./ml.



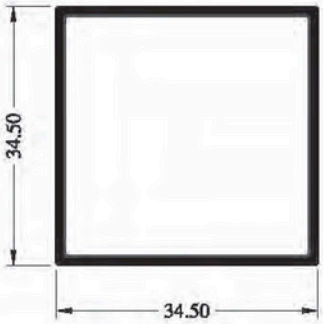
C 5052
0.529 Kg./ml.



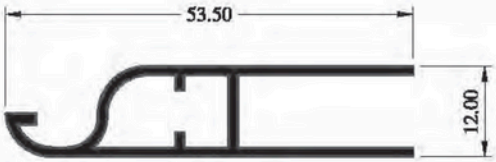
C 5057
0.401 Kg./ml.



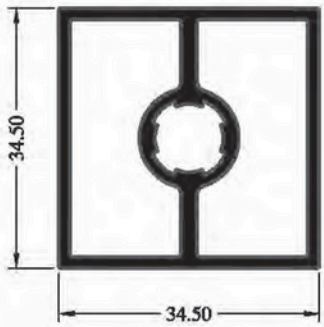
C 5059
0.384 Kg./ml.



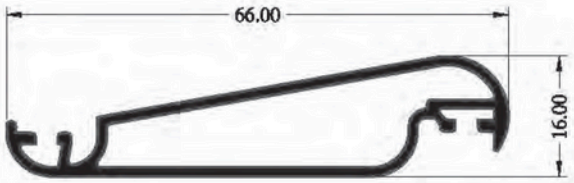
C 5064
0.431 Kg./ml.



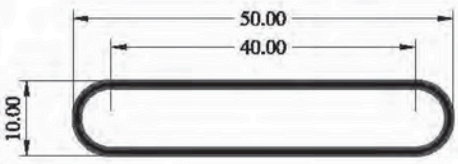
C 5058
0.395 Kg./ml.



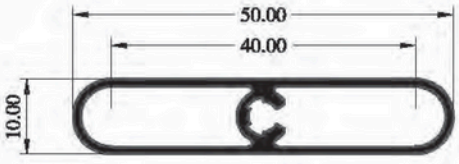
C 5069
0.810 Kg./ml.



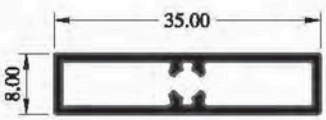
C 5068
0.517 Kg./ml.



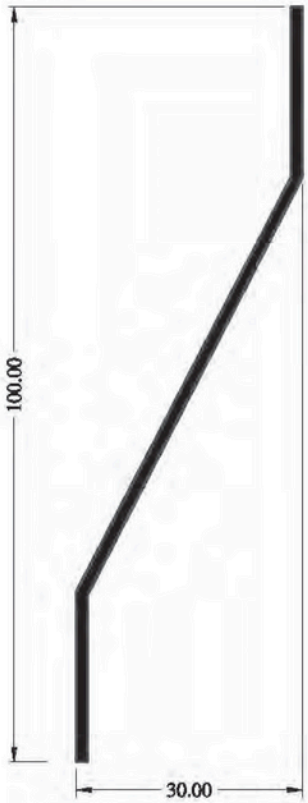
C 5061
0.292 Kg./ml.



C 5062
0.354 Kg./ml.

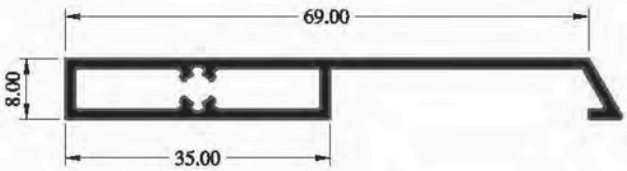


C 5067
0.246 Kg./ml.



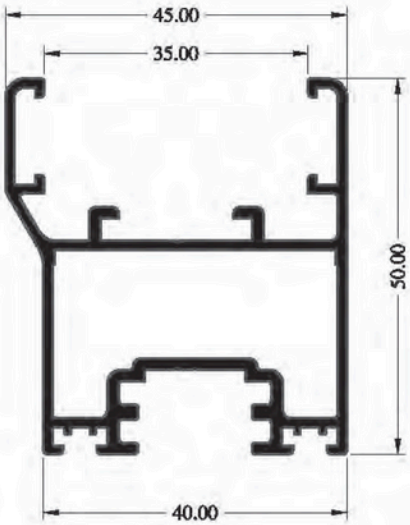
C 5071

0.423 Kg./ml.



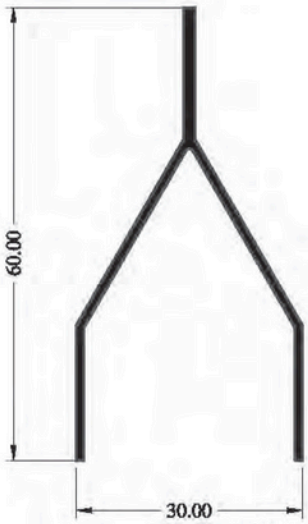
C 5087

0.459 Kg./ml.



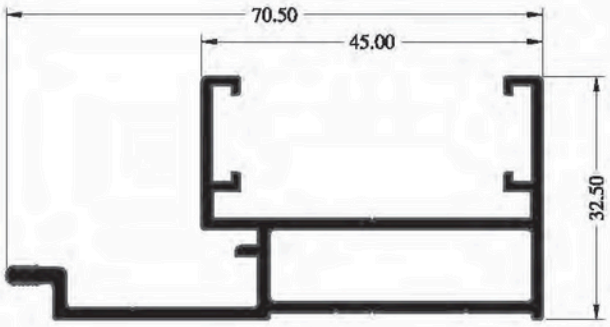
C 5091

0.880 Kg./ml.



C 5074

0.322 Kg./ml.

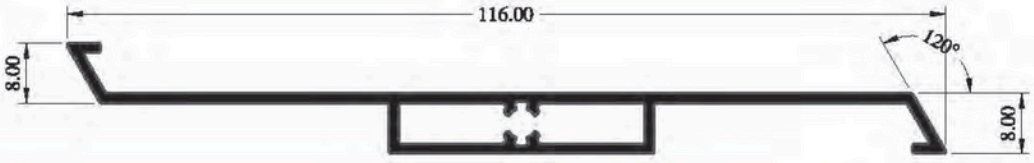


C 5096

0.788 Kg./ml.

C 5082

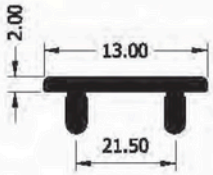
0.630 Kg./ml.



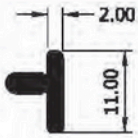
COMMON

Profiles

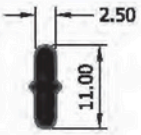




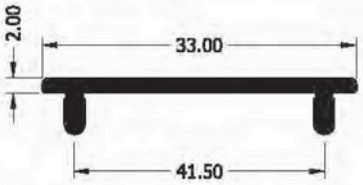
9 002 1200
0.181 Kg./ml.



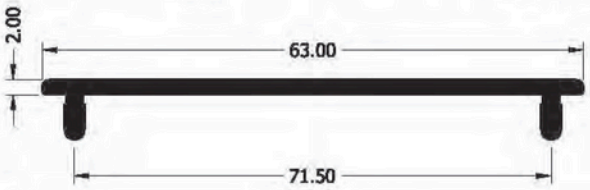
9 001 1100
0.092 Kg./ml.



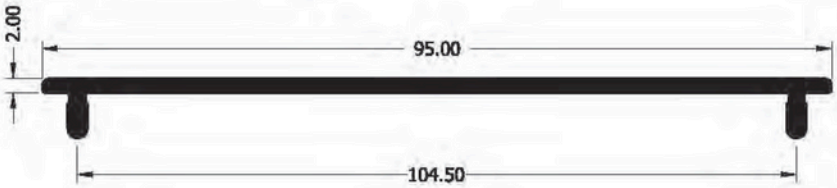
9 002 9200
0.070 Kg./ml.



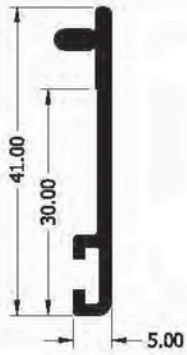
9 002 1220
0.272 Kg./ml.



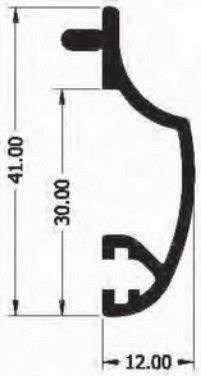
9 002 1700
0.378 Kg./ml.



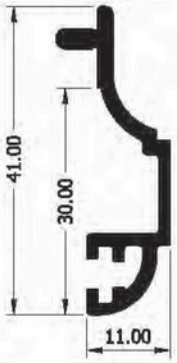
9 002 1100
0.543 Kg./ml.



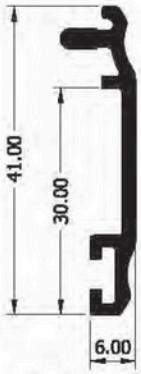
9 001 1300
0.240 Kg./ml.



9 001 1302
0.311 Kg./ml.



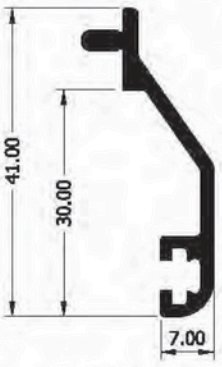
9 001 1303
0.284 Kg./ml.



9 001 1304
0.259 Kg./ml.

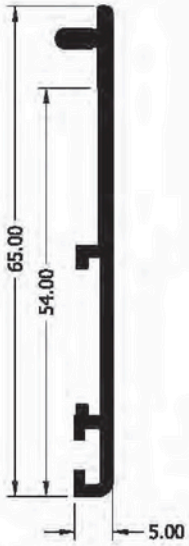


9 001 1305
0.275 Kg./ml.



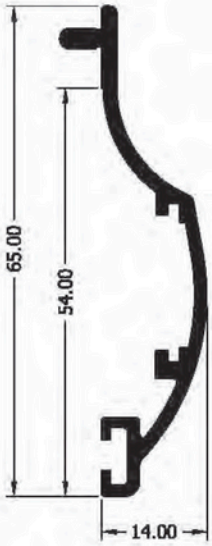
9 001 1308
0.291 Kg./ml.

Profile No.	9 001 1100	9 002 1200	9 001 1300	9 001 1302	9 001 1303	9 001 1304	9 001 1305
Profile Old No.	SH 8081	SH 8087	SH 8083	SH 8083.2	SH 8083.3	SH 8083.4	SH 8083.5



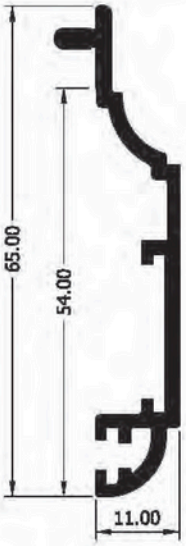
9 001 1500

0.348 Kg./ml.



9 001 1502

0.424 Kg./ml.



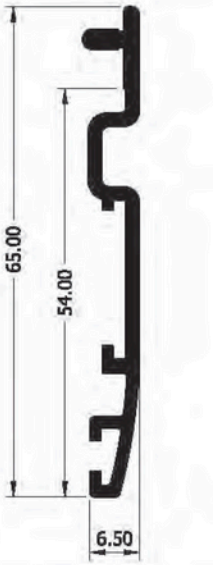
9 001 1503

0.402 Kg./ml.



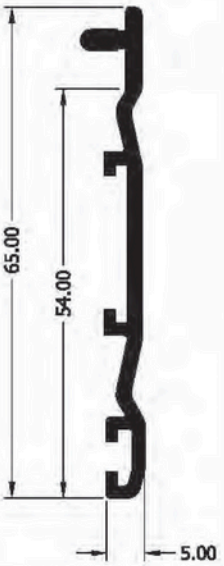
9 001 1504

0.370 Kg./ml.



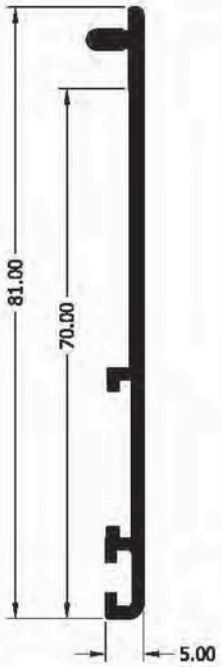
9 001 1505

0.383 Kg./ml.



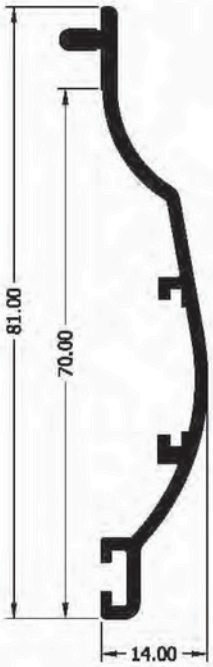
9 001 1507

0.383 Kg./ml.



9 001 1700

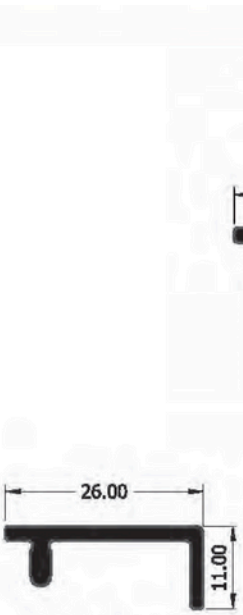
0.418 Kg./ml.



9 001 1702

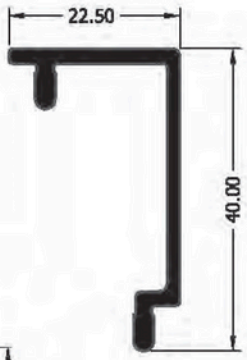
0.473 Kg./ml.

Profile No.	9 001 1500	9 002 1502	9 001 1503	9 001 1504	9 001 1505	9 001 1700	9 002 1702
Profile Old No.	SH 8085	SH 8085.2	SH 8085.3	SH 8085.4	SH 8085.5	SH 8086	SH 8086.2



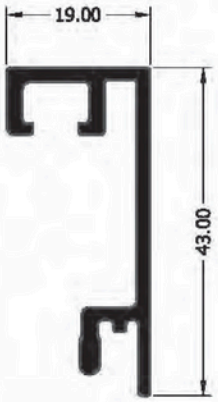
9 003 1110

0.192 Kg./ml.



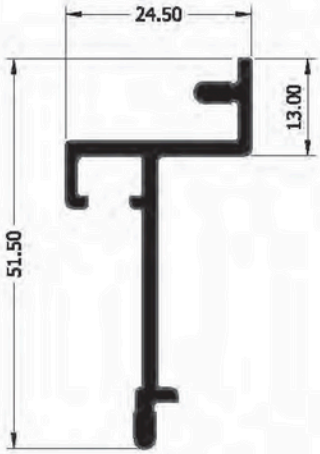
9 003 1230

0.317 Kg./ml.



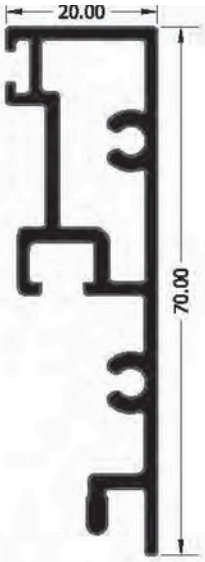
9 003 1231

0.396 Kg./ml.



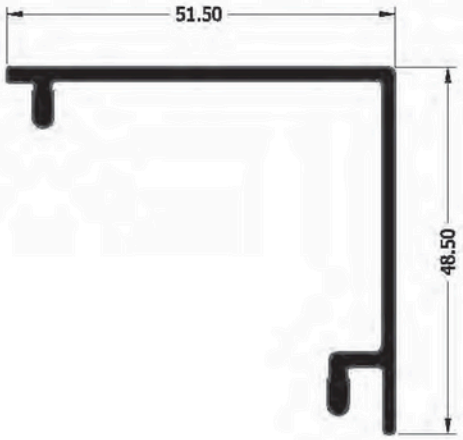
9 005 1240

0.407 Kg./ml.



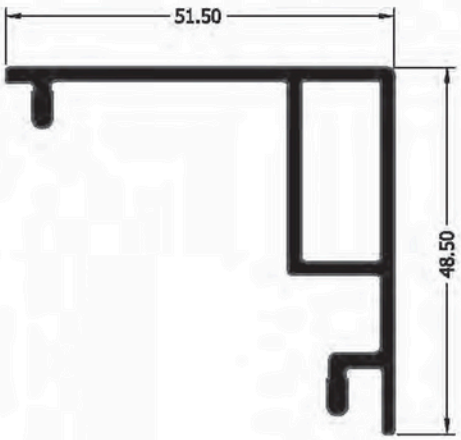
9 005 1100

0.767 Kg./ml.



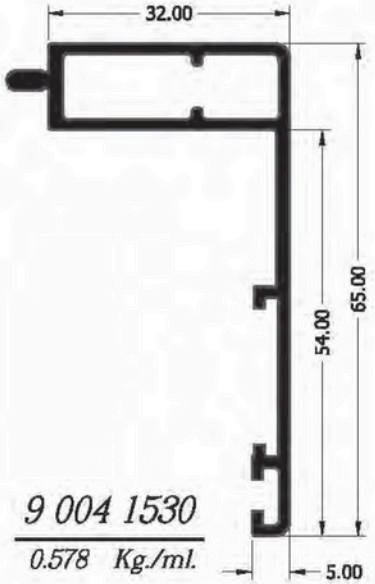
9 003 1550

0.502 Kg./ml.



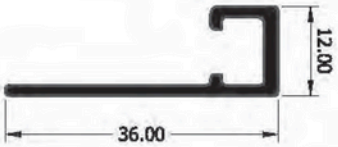
9 003 1551

0.663 Kg./ml.



9 004 1530

0.578 Kg./ml.



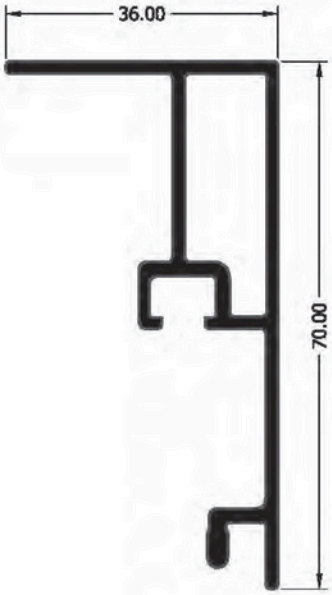
9 005 1400

0.216 Kg./ml.



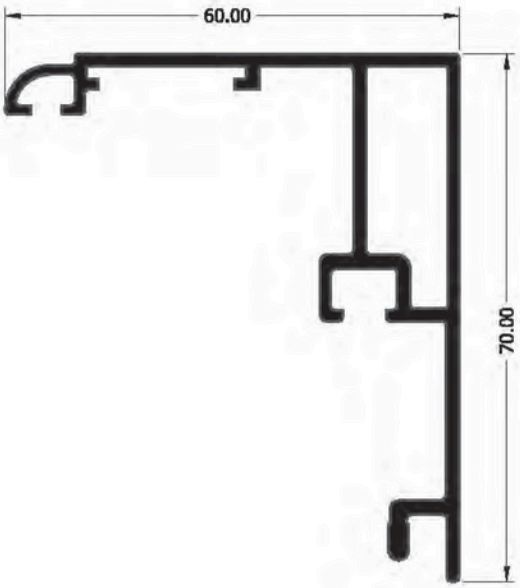
9 005 1101

0.588 Kg./ml.



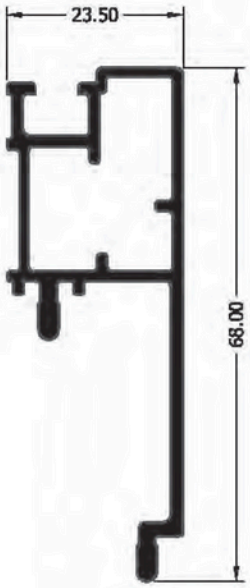
9 005 1402

0.701 Kg./ml.



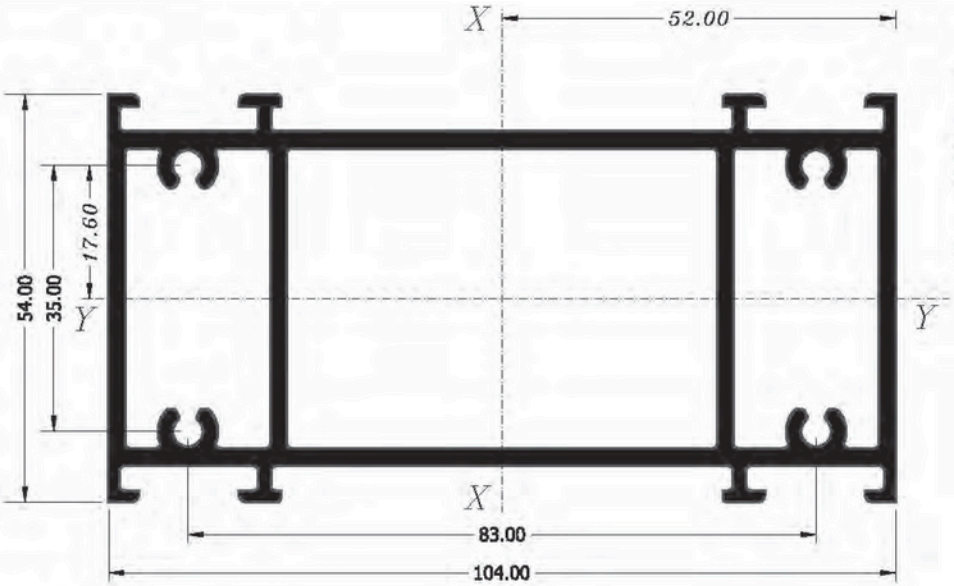
9 005 1403

0.845 Kg./ml.



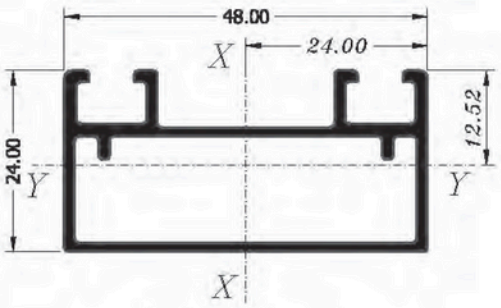
9 005 9336

0.626 Kg./ml.



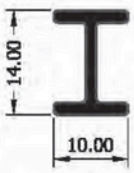
9 008 5100

2.345 Kg./ml.



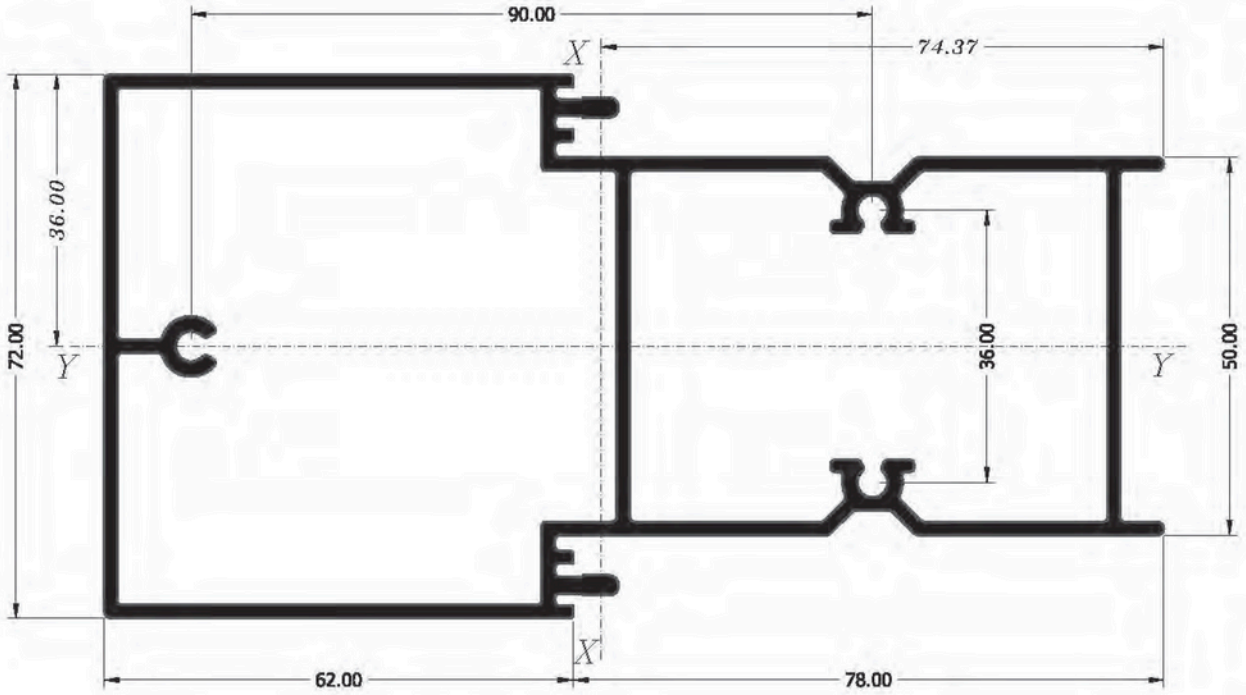
9 008 5525

0.483 Kg./ml.



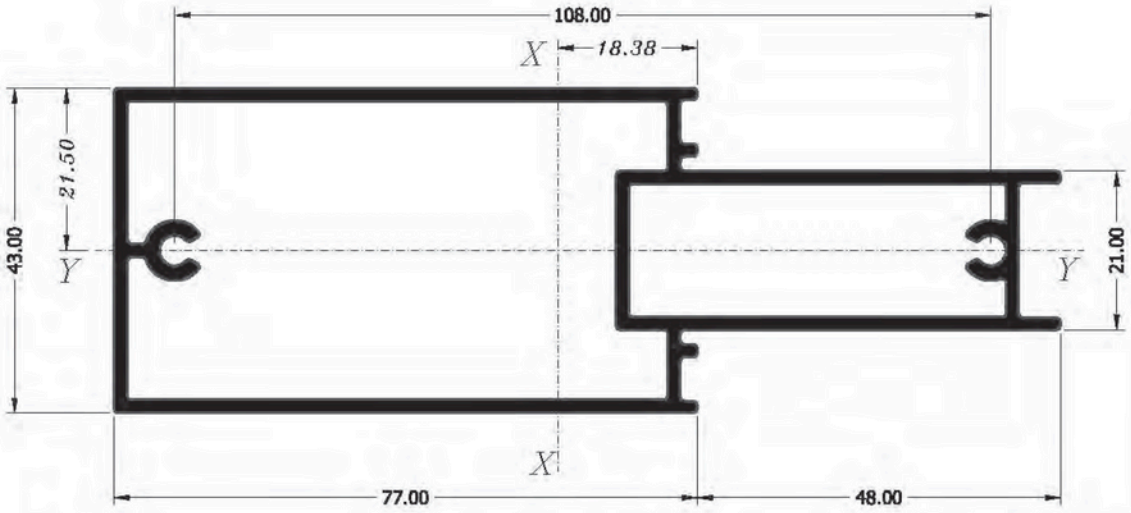
9 009 3011

0.107 Kg./ml.



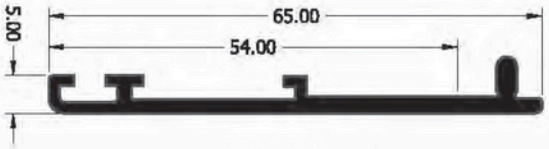
9 008 5140

2.389 Kg./ml.



9 008 5312

1.638 Kg./ml.



8 001 1500

0.421 Kg./ml.

This profile is specially produced for rolling machines



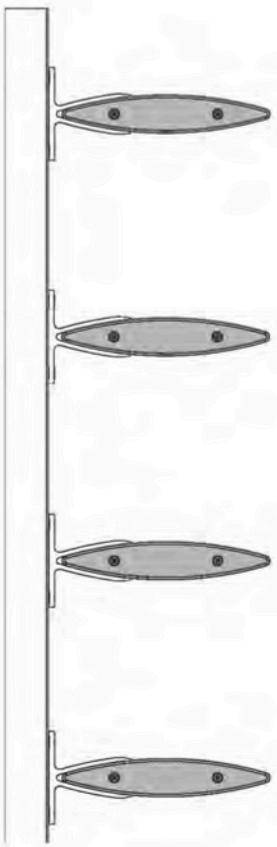
ACACIA 42

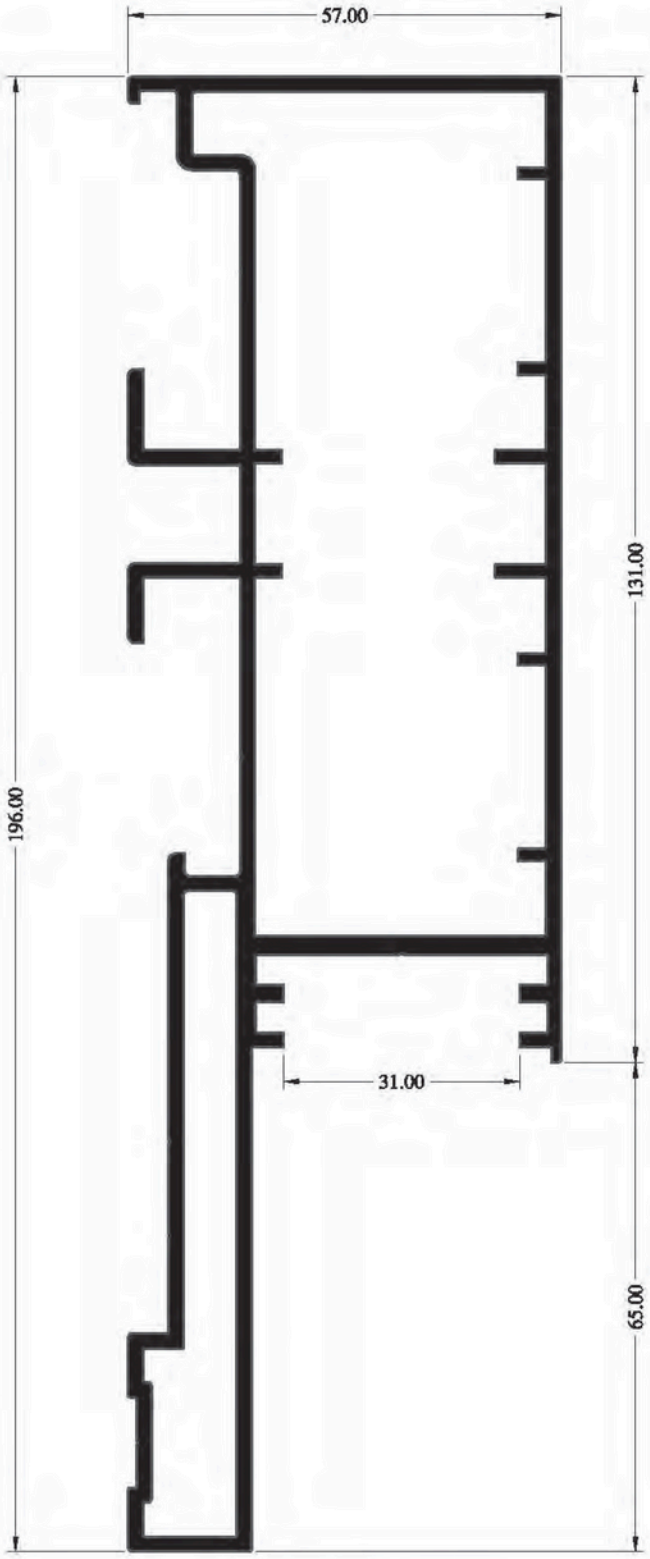
Shading System

- A complete system for solar control shading system by adapting the blades length with different angles and its intervals.
- Wide range of blades with different types, shapes and dimensions, can be positioned horizontal, vertical or inclined at different inclinations and at different blade pitches.
- Available in sliding panels cassettes, in which the blades have been screwed between vertical end cap plates.

Technical Characteristics

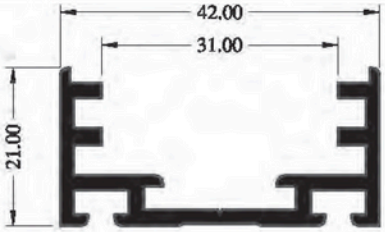
Main Profile	Depth	42 mm. to 125 mm.
	Height	21 mm. to 80 mm.
Slat	Depth	60 mm. to 200 mm.
	Height	20 mm. to 40 mm.
Degree obtained	30 - 45 - 60 -90	





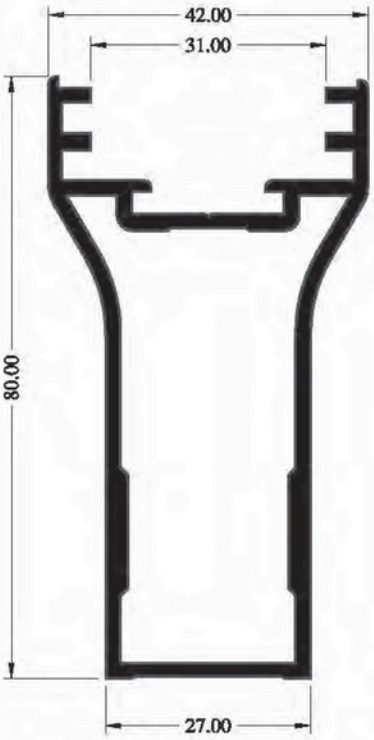
C 4209

3.528 Kg./ml.



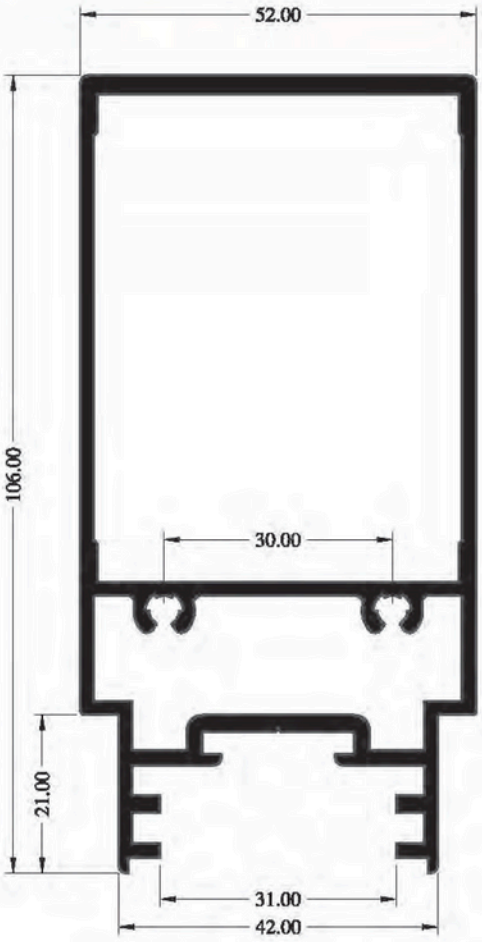
C 4211

0.583 Kg./ml.



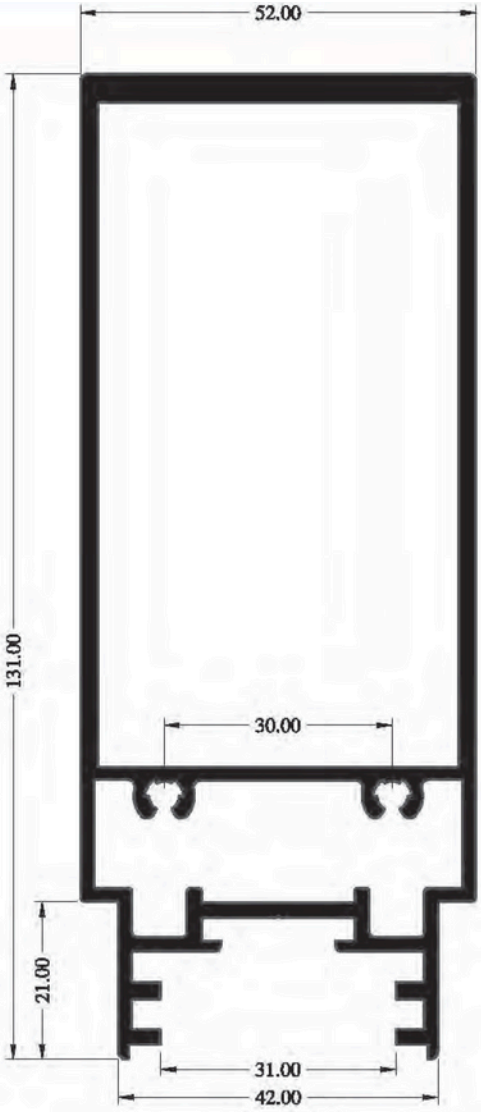
C 4216

1.413 Kg./ml.



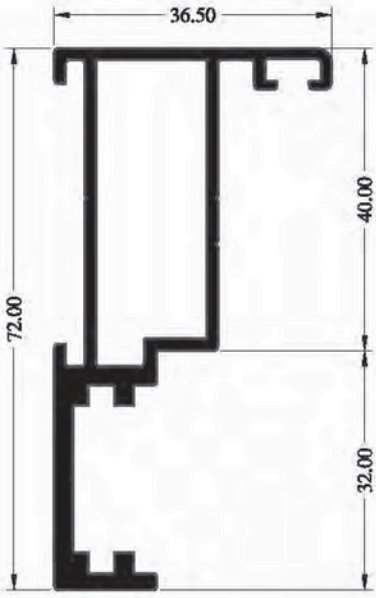
C 4218

2.133 Kg./ml.



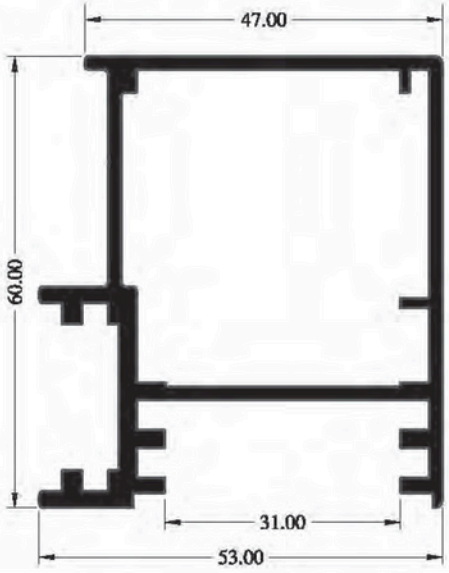
C 4219

2.785 Kg./ml.



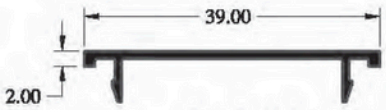
C 4221

0.985 Kg./ml.



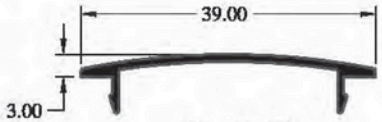
C 4226

1.335 Kg./ml.



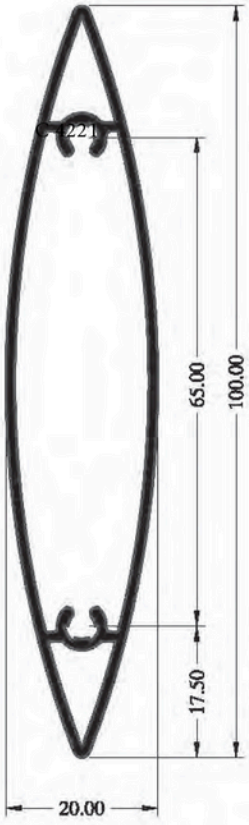
C 4231

0.143 Kg./ml.



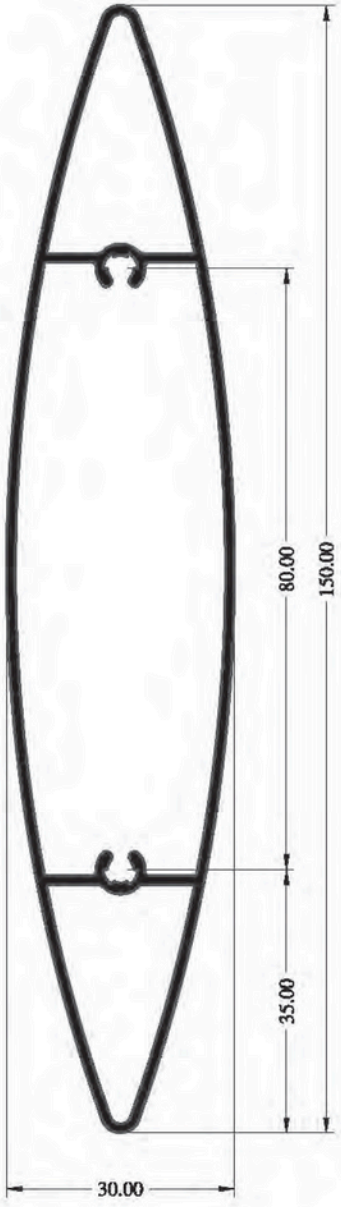
C 4232

0.142 Kg./ml.



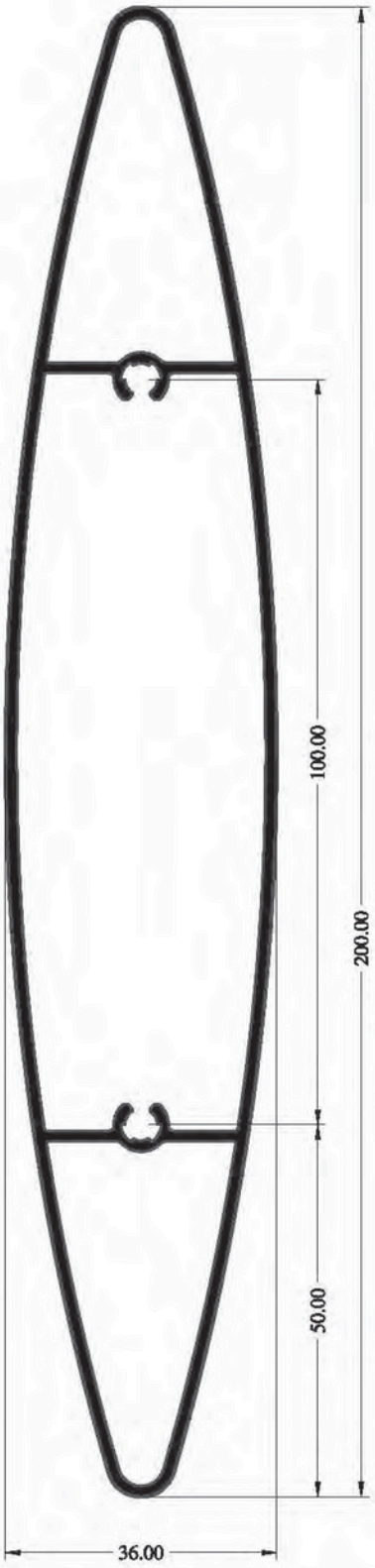
C 4241

0.772 Kg./ml.



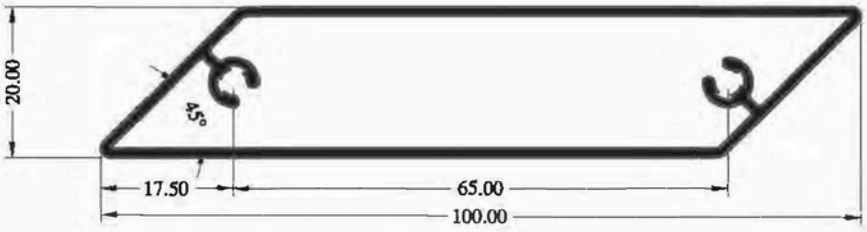
C 4243

1.269 Kg./ml.



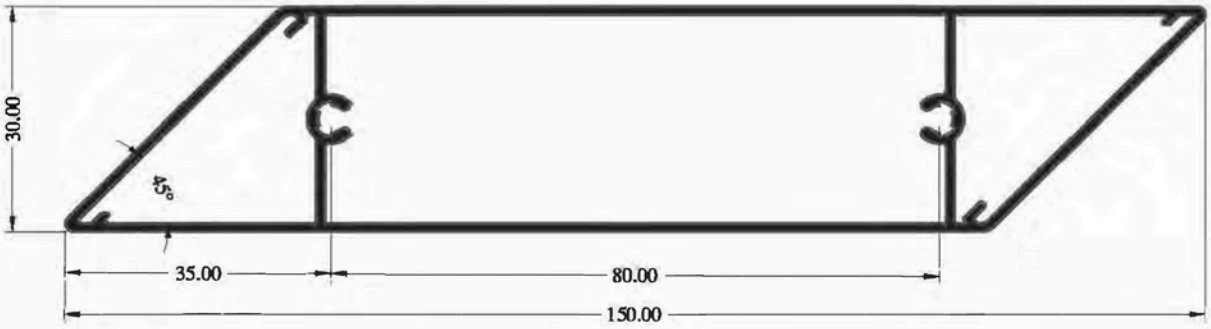
C 4245

1.924 Kg./ml.



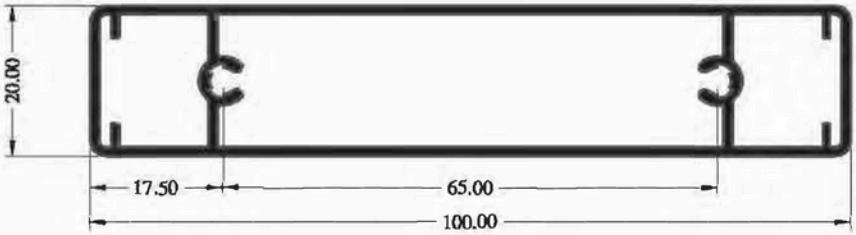
C 4246

0.799 Kg./ml.



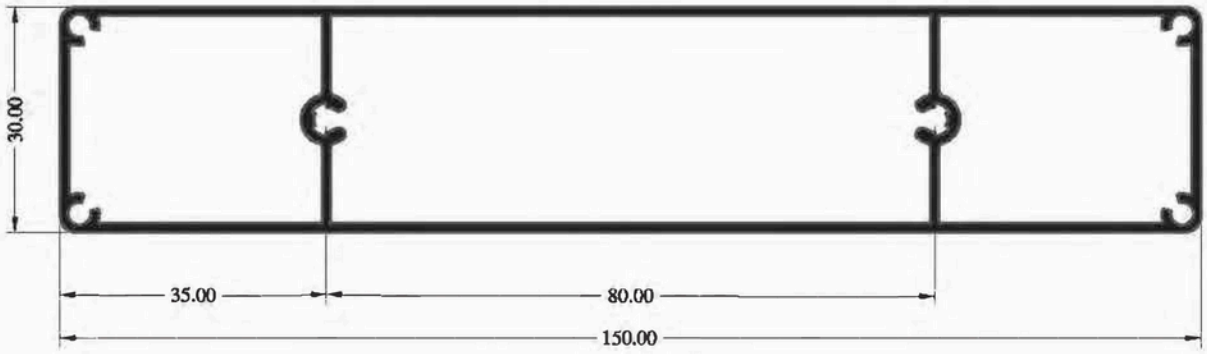
C 4248

1.307 Kg./ml.



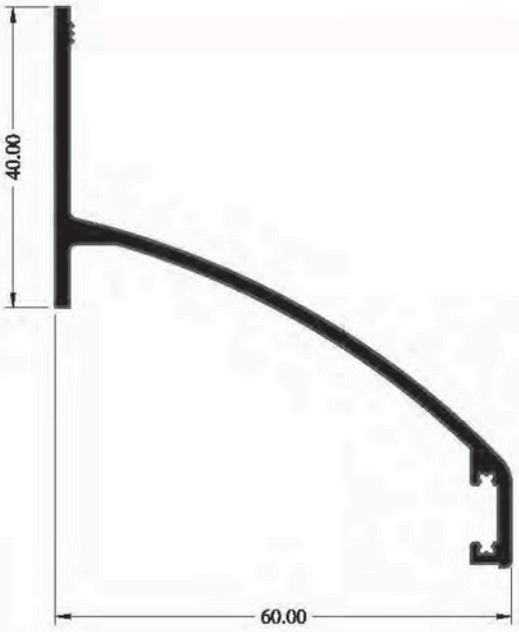
C 4247

0.960 Kg./ml.



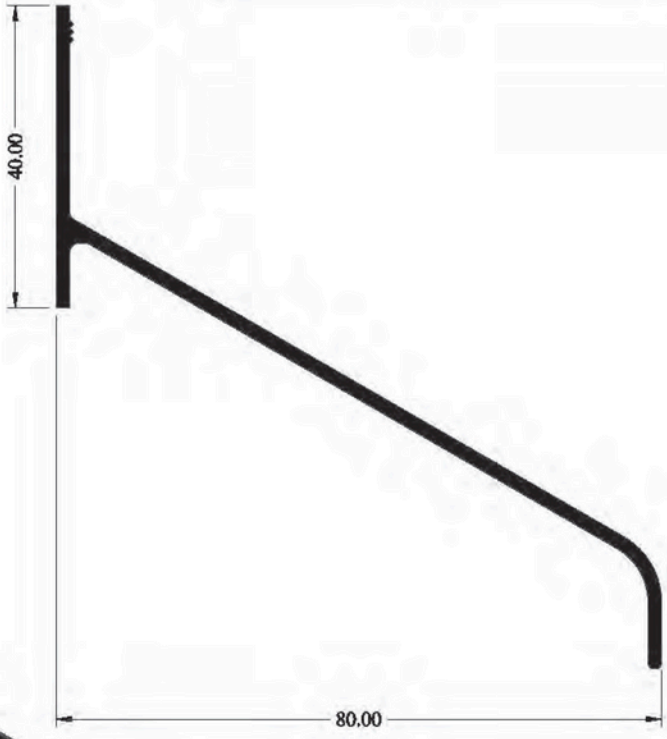
C 4249

1.431 Kg./ml.



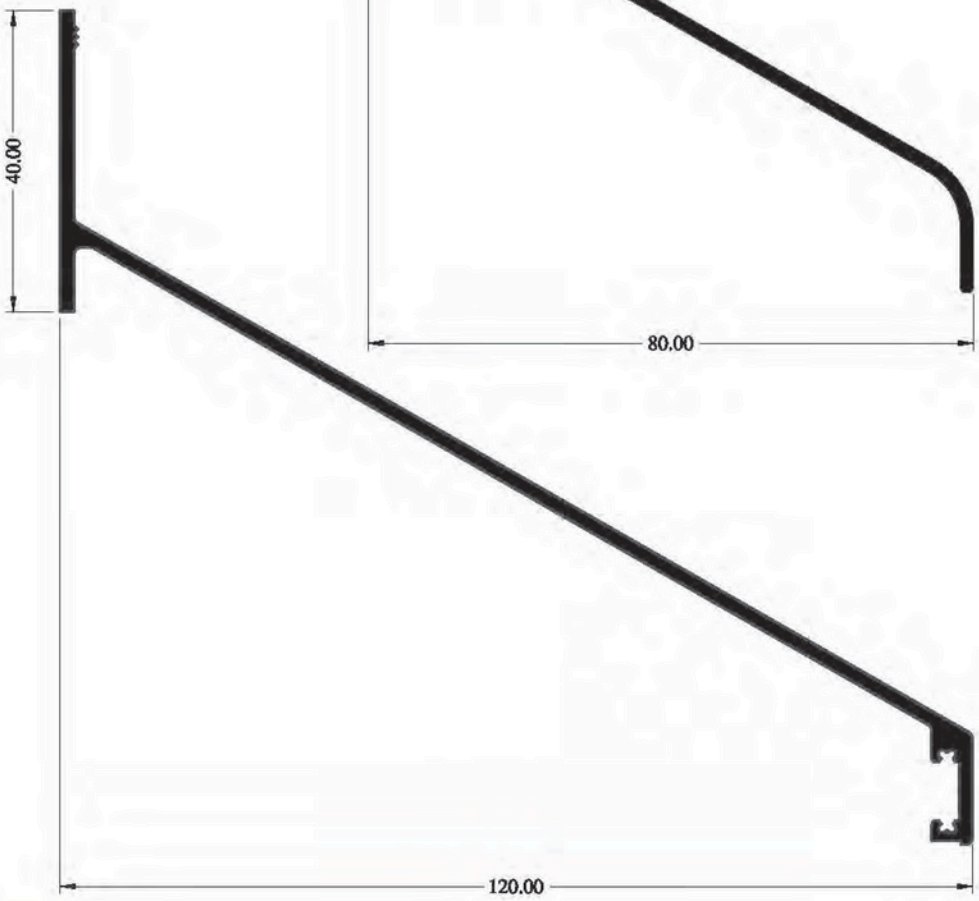
C 4260

0.638 Kg./ml.



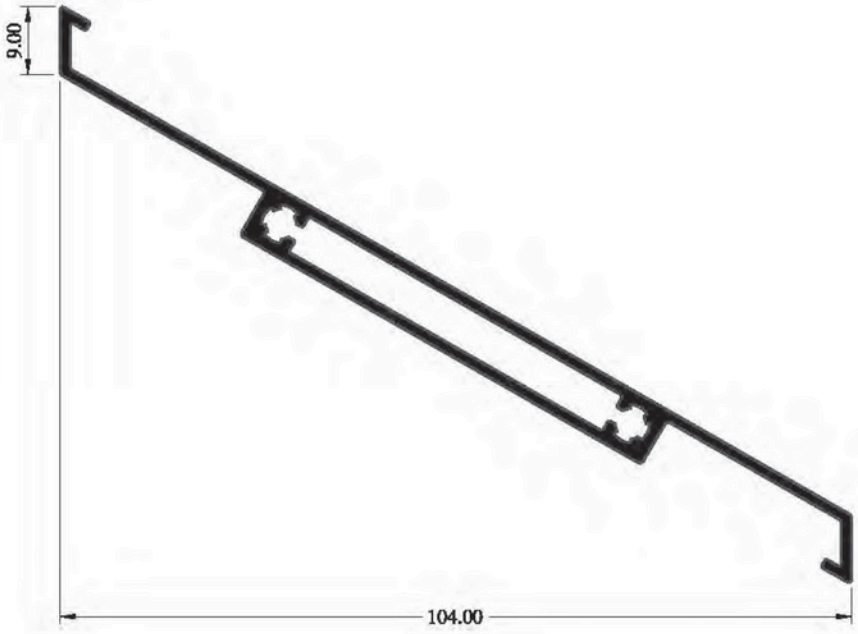
C 4262

0.699 Kg./ml.



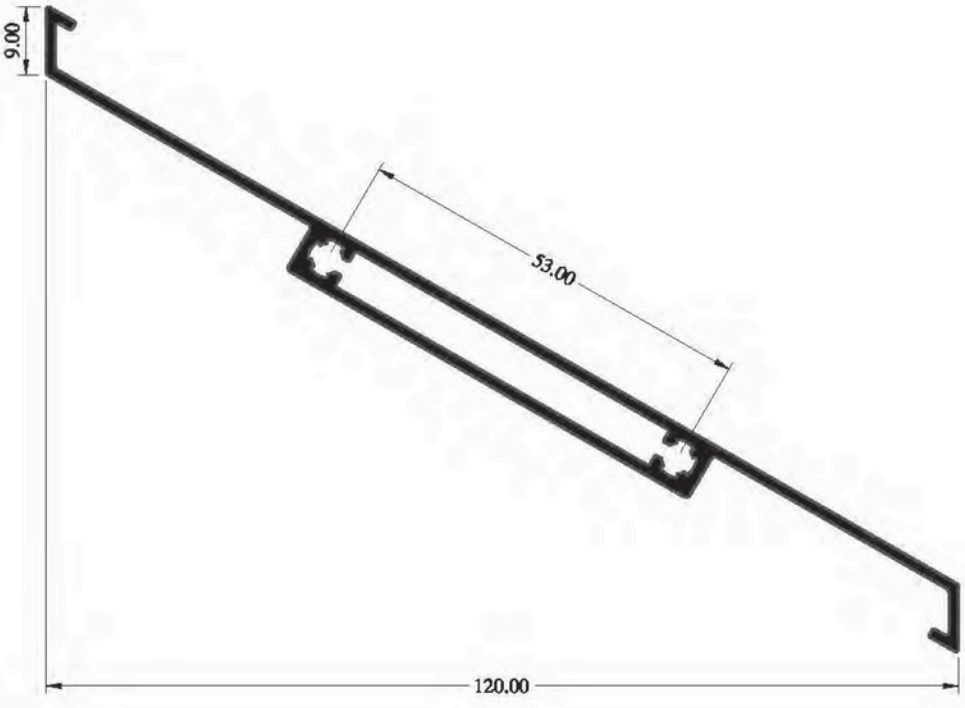
C 4264

0.974 Kg./ml.



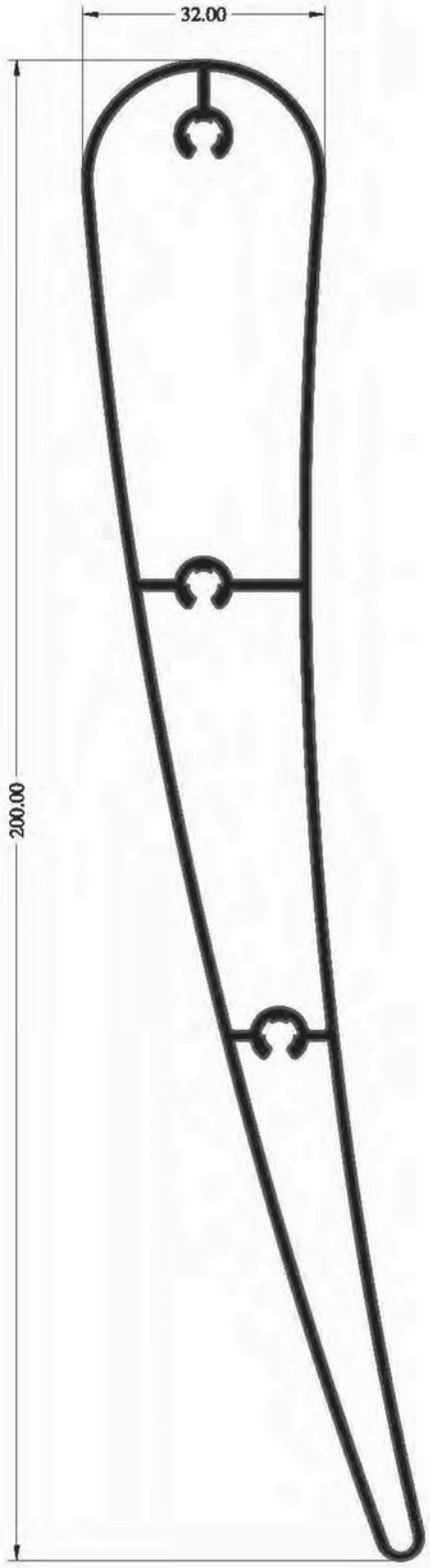
C 4273

0.808 Kg./ml.

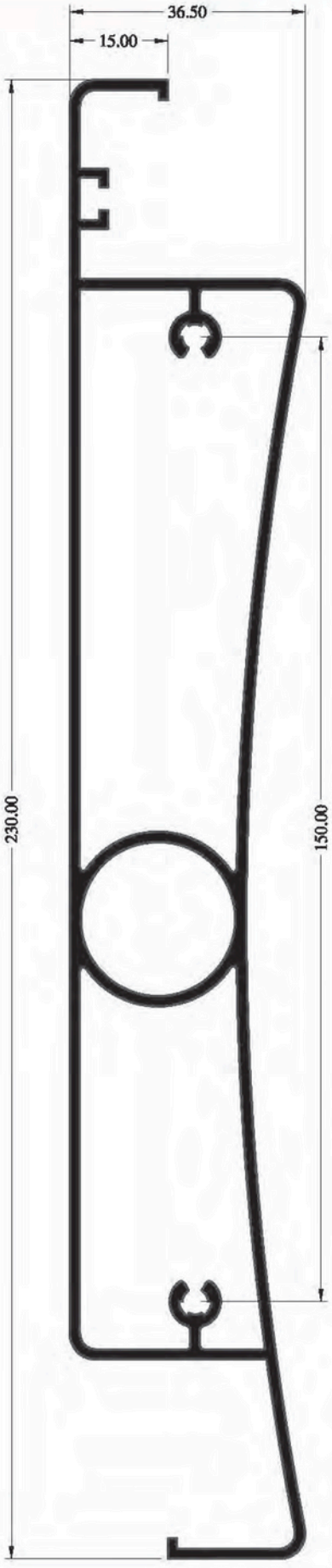


C 4274

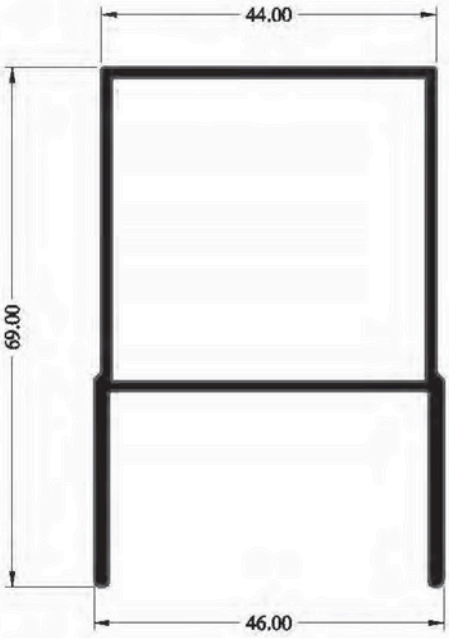
0.872 Kg./ml.



C 4267
1.789 Kg./ml.

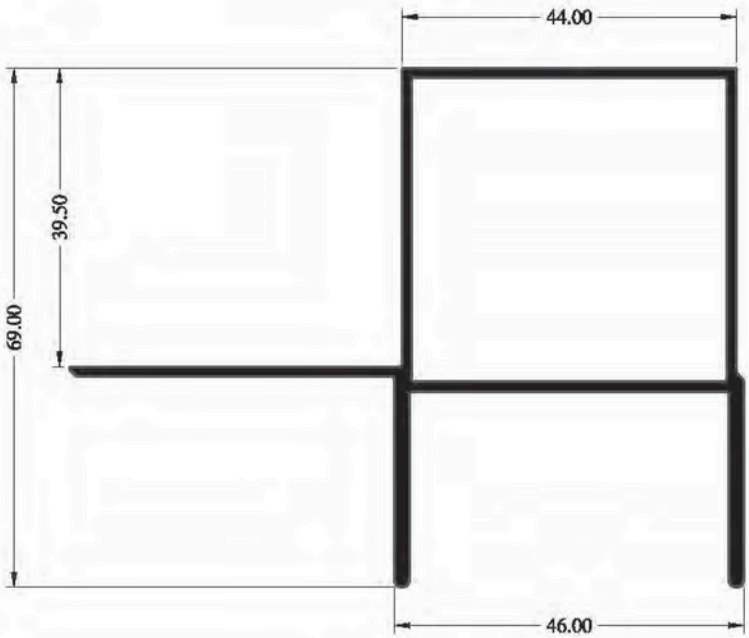


C 4269
2.642 Kg./ml.



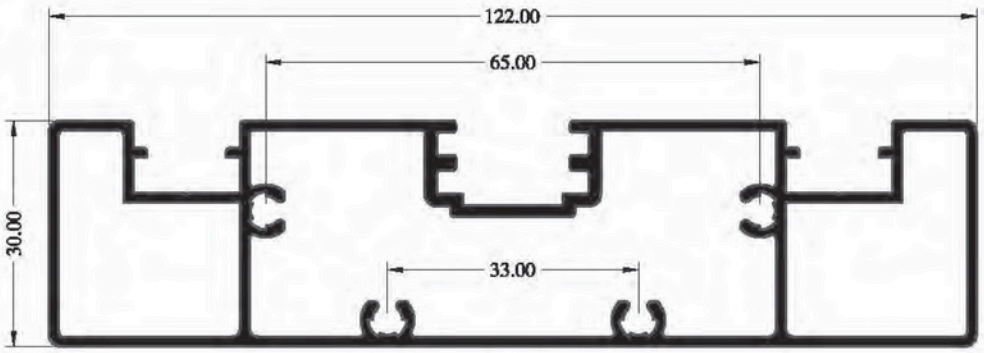
C 4278

0.882 Kg./ml.



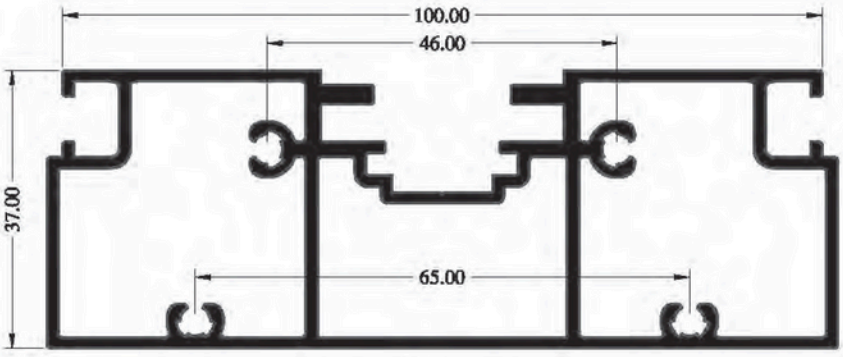
C 4279

1.034 Kg./ml.



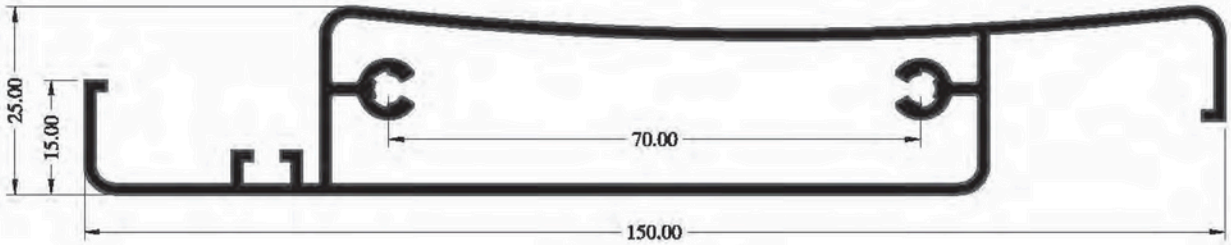
C 4290

1.636 Kg./ml.



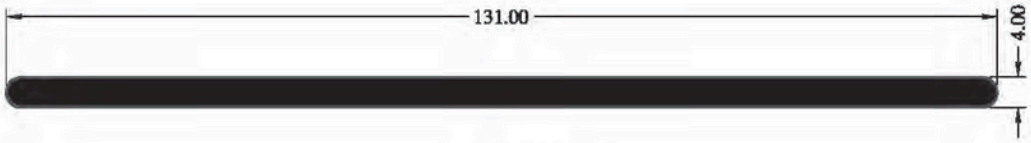
C 4292

1.919 Kg./ml.



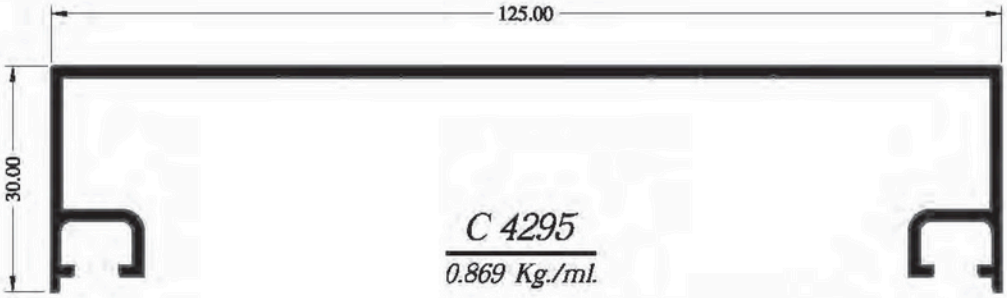
C 4266

1.365 Kg./ml.



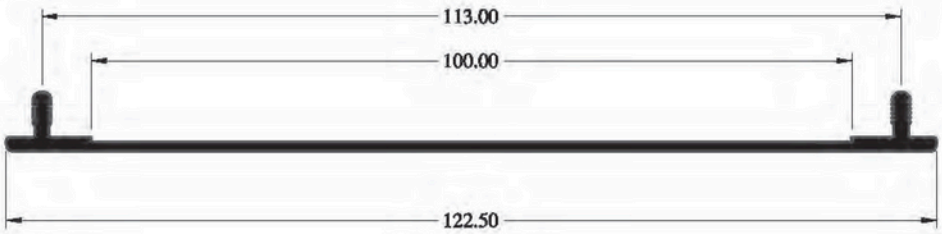
C 4291

1.411 Kg./ml.



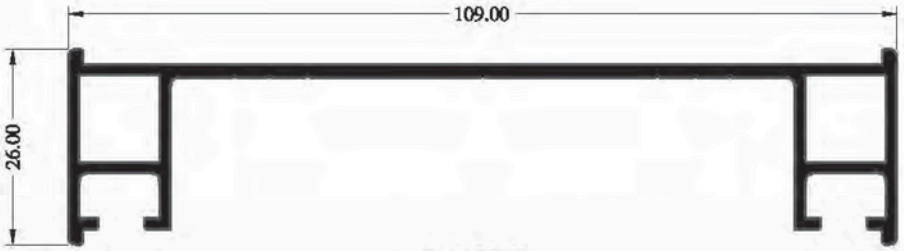
C 4295

0.869 Kg./ml.



C 4296

0.567 Kg./ml.



C 4297

1.003 Kg./ml.

EXPO 44

Partition System



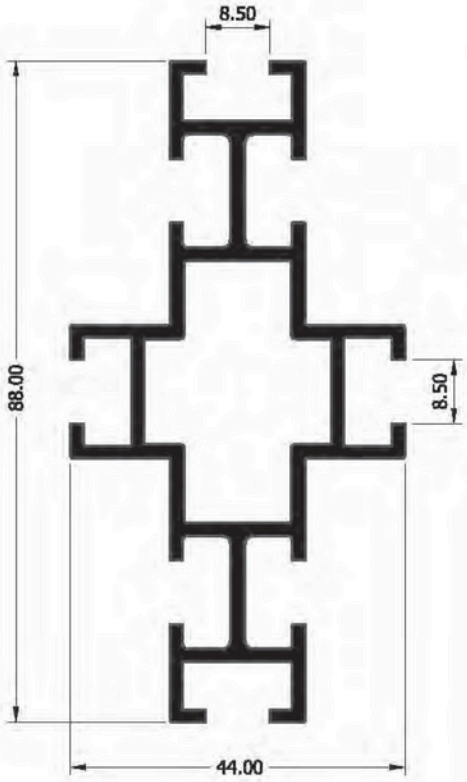
- Octagon Profiles type became the standard for exhibition systems worldwide.
- EXPO 44 system shows its full potential especially for exhibition builders.
- Developed with its integrated accessories to offer maximum of creative freedom.
- Ideally suited for smaller exhibition stands, displays and the retail sector.

Technical Characteristics

Dimensions	Octagon	44 mm.
	Transom	18 mm.
Transom Height	Minimum	40 mm.
	Maximum	175 mm.

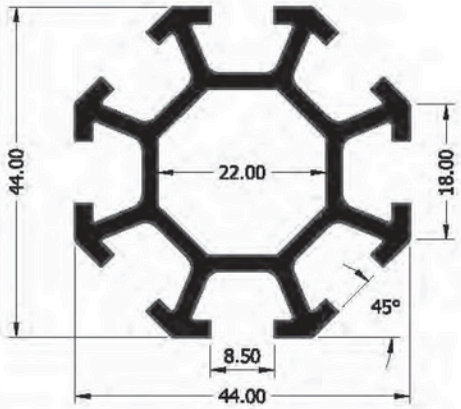
Options:

- Special lengths, special colors are available
- Special profiles, with corresponding special accessories.
- Cutting and finishing services.



EX 1804

1.486 Kg./ml.



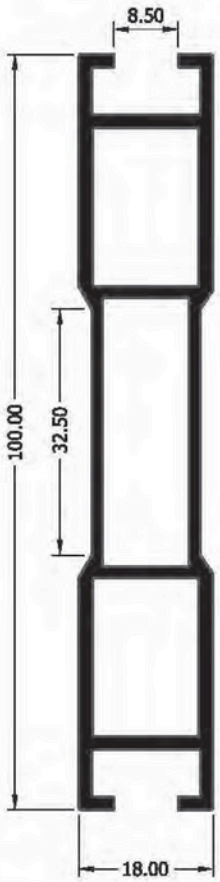
EX 1808

1.216 Kg./ml.



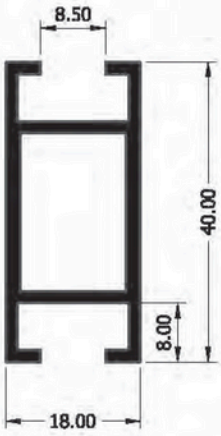
EX 1817

1.736 Kg./ml.



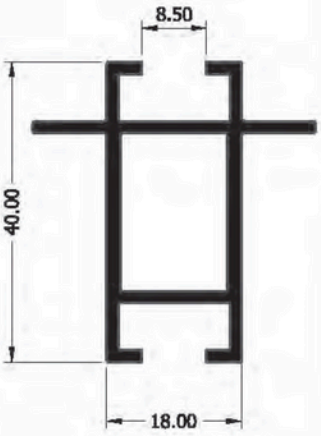
EX 1810

1.235 Kg./ml.



EX 1840

0.562 Kg./ml.



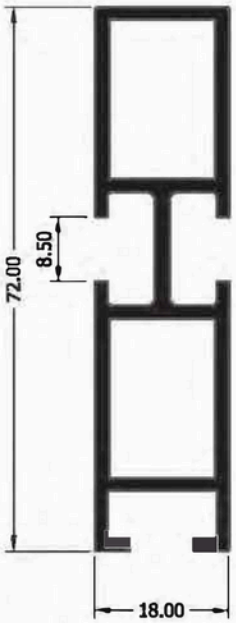
EX 1842

0.626 Kg./ml.



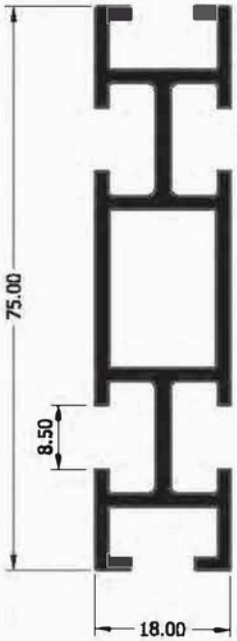
EX 1850

0.692 Kg./ml.



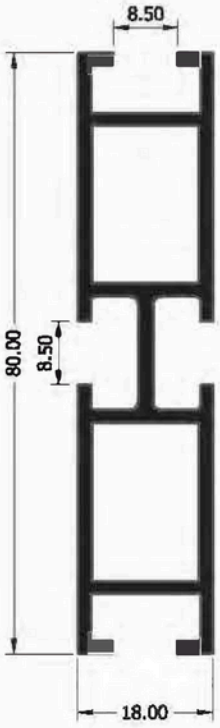
EX 1873

1.015 Kg./ml.



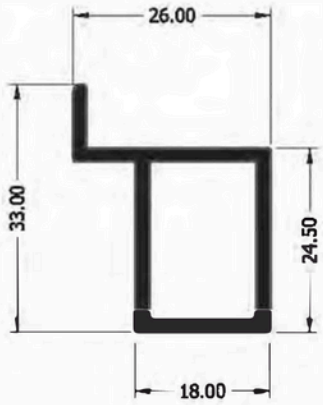
EX 1875

1.056 Kg./ml.



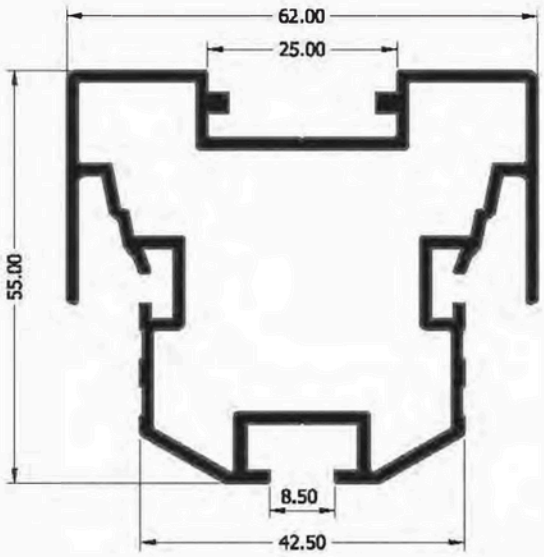
EX 1880

1.112 Kg./ml.



EX 1891

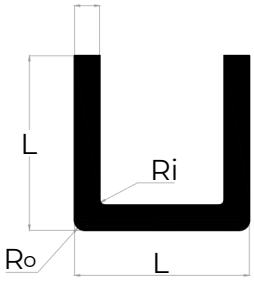
0.414 Kg./ml.



EX 1896

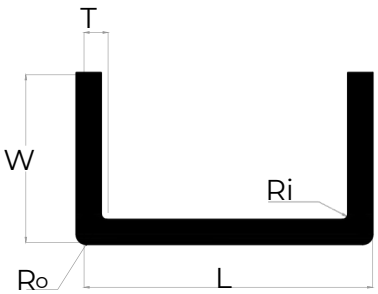
1.283 Kg./ml.

Standard Section

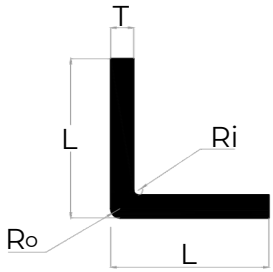


Profile No.	L (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
200901	6	1	-	-	0.043
201203	8	1	-	-	0.059
201503	10	1	-	-	0.076
202207	15	1.5	-	-	0.170
203611	25	2	-	-	0.383
204310	30	3	-	-	0.680
205711	40	4	-	-	1.210
207116	50	5	-	-	1.890

Profile No.	L (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)

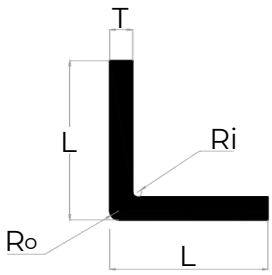


Profile No.	L (mm)	W (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)	Profile No.	L (mm)	W (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
201301	10	8	1	-	-	0.065							
201903	15	10	1.5	-	-	0.130							
202304	20	10	1.5	-	-	0.151							
202506	20	15	1.5	-	-	0.211							
205204	43	30	1	-	-	0.270							
205910	50	30	4	-	-	1.102							
206111	53	30	1	-	-	0.297							
207312	60	40	5	-	-	1.755							
211206	100	50	5	-	-	2.565							

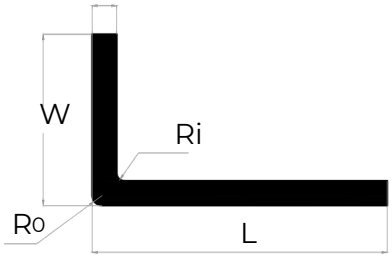


Profile No.	L (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
202212	15	0.9	-	-	0.070
202206	15	1	-	-	0.078
202909	20	0.9	-	-	0.095
203617	25	0.9	-	-	0.119
203609	25	1.5	-	-	0.197
204316	30	0.9	-	-	0.143
204314	30	1	-	-	0.159
204306	30	2	-	-	0.313
204317	30	2.5	-	-	0.389
204307	30	3	-	-	0.462

Profile No.	L (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
204304	30	4	-	-	0.605
205019	35	3.5	-	-	0.629
205411	38.1	3.18	-	-	0.626
205706	40	4	-	-	0.821
205707	40	5	-	-	1.013
205715	40	40	-	-	0.257
207108	50	3	-	-	0.786
207110	50	4	-	-	1.037
207101	50	5	-	-	1.283
207203	50.8	3.18	-	-	0.842

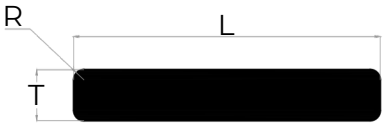


Profile No.	L (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)	Profile No.	L (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
208505	**60**	**3**	**-**	**-**	**0.948**						
208502	**60**	**6**	**-**	**-**	**1.847**						
211405	**80**	**8**	**-**	**-**	**3.283**						
214201	**100**	**10**	**-**	**-**	**5.130**						

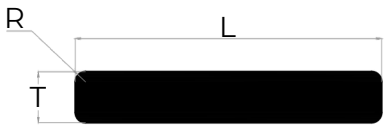


Profile No.	L (mm)	W (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
202303	20	10	1.5	-	-	0.116
203211	25	20	3	-	-	0.340
203402	30	15	2	-	-	0.232
203706	30	20	2	-	-	0.259
204203	40	10	2	-	-	0.259
208109	40	10	3	-	-	0.867
204512	40	20	0.9	-	-	0.143
205404	50	20	2	-	-	0.367
205904	50	30	3	-	-	0.624
205905	50	30	4	-	-	0.821

Profile No.	L (mm)	W (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
206205	50	35	3	-	-	0.664
206505	50	40	3	-	-	0.705
206803	60	30	3	-	-	0.705
207304	60	40	2	-	-	0.529
207301	60	40	3	-	-	0.786
209001	80	40	4	-	-	1.253
211202	100	50	5	-	-	1.958

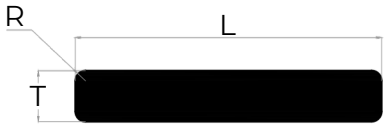


Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)	Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)
201705	15.88	6.35	-	0.273	203202	30	10	-	0.810
202006	19.05	4.76	-	0.246	203213	31.75	3.18	-	0.273
202101	20	3	-	0.162	203214	31.75	4.76	-	0.408
202501	20	15	-	0.810	203804	31.75	19.05	-	1.634
202702	25	10	-	0.675	204102	35	20	-	1.890
202801	25	12	-	0.810	204401	35	25	-	2.363
203301	25	20	-	1.350	204301	38.1	19.05	-	1.960
203212	25.4	19.05	-	1.307	204607	38.1	25.4	-	2.614
203101	30	3	-	0.243	204109	40	2	-	0.216
203103	30	5	-	0.405	204103	40	3	-	0.324



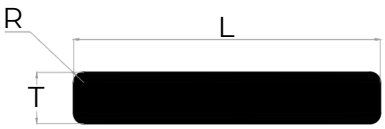
Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)
204105	40	5	-	0.540
204101	40	8	-	0.864
204201	40	10	-	1.080
204302	40	15	-	1.620
204501	40	20	-	2.160
204801	40	25	-	2.700
205002	40	30	-	3.240
205104	50	3	-	0.405
205106	50	5	-	0.675
205101	50	6	-	0.810

Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)
205402	50	20	-	2.700
205601	50	25	-	3.375
205902	50	30	-	4.050
206201	50	35	-	4.725
206501	50	40	-	5.400
206103	60	3	-	0.486
206105	60	5	-	0.810
206101	60	6	-	0.972
206401	60	20	-	3.240
206502	60	25	-	4.050

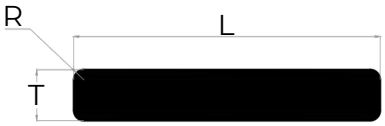


Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)
207302	60	40	-	6.480
207901	60	50	-	8.100
207106	70	3	-	0.567
207102	70	8	-	1.512
208104	70	40	-	7.560
208701	70	50	-	9.450
207802	76.2	12.7	-	2.614
208101	80	4	-	0.864
208106	80	8	-	1.728
208107	80	10	-	2.160

Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)
208108	80	12	-	2.592
208201	80	15	-	3.240
208301	80	20	-	4.320
208401	80	25	-	5.400
209002	80	40	-	8.640
209501	80	50	-	10.800
209105	88.9	15.88	-	3.810
209203	90	15	-	3.645
209301	90	20	-	4.860
210303	90	50	-	12.150

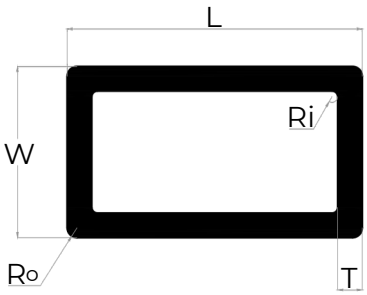


Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)	Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)
210101	100	5	-	1.350	212302	120	25	-	8.100
210106	100	8	-	2.160	213003	120	50	-	16.200
210103	100	10	-	2.700	213101	130	10	-	3.510
210202	100	20	-	5.400	215101	150	15	-	6.075
210401	100	25	-	6.750	215201	150	20	-	8.100
210503	100	30	-	8.100	215601	150	40	-	16.200
210803	100	40	-	10.800	215903	150	50	-	20.250
211201	100	50	-	13.500	217904	177.8	9.53	-	4.574
210403	101.6	19.05	-	5.225	217903	177.8	19.05	-	9.145
212105	120	8	-	2.592	218201	180	20	-	9.720



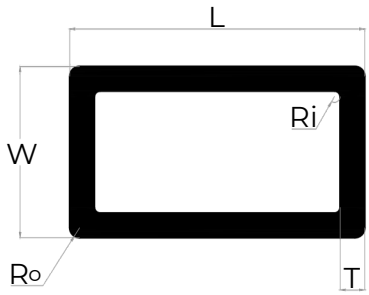
Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)
220102	200	10	-	5.400
220106	200	12	-	6.480
220101	200	15	-	8.100
220202	200	25	-	13.500
220301	200	30	-	16.200
220502	203.2	22.23	-	12.193
222102	220	10	-	5.940
222101	220	20	-	11.880
225102	250	10	-	6.750
225103	250	15	-	10.125

Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)
230101	300	10	-	8.100

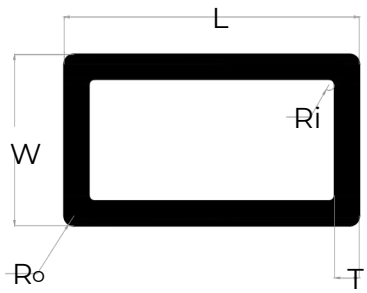


Profile No.	L (mm)	W (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
102301	20	10	2	-	-	0.281
102506	20	15	2	-	-	0.335
103402	30	15	1.5	-	-	0.340
103401	30	15	2	-	-	0.443
103701	30	20	2	-	-	0.497
104303	40	15	2	-	-	0.551
104514	40	20	1.3	-	-	0.402
104501	40	20	2	-	-	0.605
104801	40	25	2	-	-	0.659
105003	40	30	2	-	-	0.713

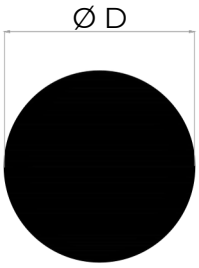
Profile No.	L (mm)	W (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
105401	50	20	2	-	-	0.713
105601	50	25	2	-	-	0.767
105902	50	30	2	-	-	0.821
105901	50	30	3	-	-	1.199
106401	60	20	2	-	-	0.821
106802	60	30	2	-	-	0.929
106801	60	30	3	-	-	1.361
107311	60	40	0.9	-	-	0.478
107306	60	40	1.3	-	-	0.683
107302	60	40	2	-	-	1.037



Profile No.	L (mm)	W (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
107301	60	40	4	-	-	1.987
108312	80	20	1.3	-	-	0.683
108302	80	20	2	-	-	1.037
104515	80	40	0.9	-	-	0.284
109016	80	40	0.9	-	-	0.575
109002	80	40	2	-	-	1.253
109004	80	40	3	-	-	1.847
109005	80	40	4	-	-	2.419
109501	80	50	4	-	-	2.635
110401	100	25	2	-	-	1.307
110801	100	40	2	-	-	1.469
111204	100	50	2	-	-	1.577
111201	100	50	3	-	-	2.333
111202	100	50	4	-	-	3.067
112703	120	40	1.3	-	-	1.104
113001	120	50	4	-	-	3.499
113501	120	60	4	-	-	3.715
114503	120	80	3	-	-	3.143
115202	150	20	2	-	-	1.793
115902	150	50	4	-	-	4.147

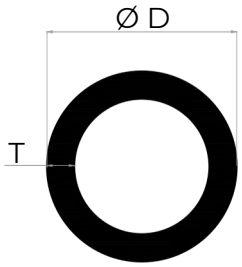


Profile No.	L (mm)	W (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)	Profile No.	L (mm)	W (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
118403	152.4	101.6	12.7	-	-	15.676							
116802	160	50	1.8	-	-	2.006							
116801	160	50	2	-	-	2.225							
120701	200	50	2	-	-	2.657							
121203	200	70	2.2	-	-	3.156							
121202	200	70	3	-	-	4.277							
122402	200	100	2.5	-	-	3.983							
122404	200	100	5	-	-	7.830							
122801	203.2	101.6	6.35	-	-	10.017							

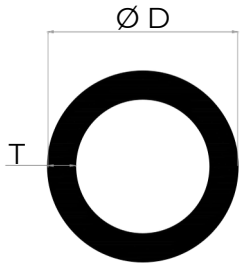


Profile No.	L	W	D (mm)	T	Weight (Kg/m)
200401			4		0.035
200801			8		0.135
203001			30		1.909
203501			35		2.600
204001			40		3.394
204502			45		4.296
205004			50		5.303
205503			55		6.415
206001			60		7.636
207001			70		10.392

Profile No.	D (mm)	Weight (Kg/m)
207501	75	11.929
208001	80	13.573
209010	90	17.177

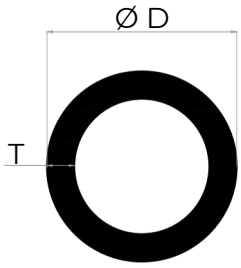


Profile No.	D (mm)	T (mm)	Weight (Kg/m)	Profile No.	D (mm)	T (mm)	Weight (Kg/m)
100601	6	1	0.043	103208	31.75	4.76	1.091
101001	10	1	0.076	103207	31.75	6.35	1.369
101201	12	1	0.095	103202	32	2	0.508
102005	20	1	0.162	103503	35	2	0.559
102202	22	2	0.340	103504	35	2.5	0.689
102501	25	3	0.559	103902	38.1	4.75	1.345
102601	25.4	6.35	1.026	103903	38.1	9.53	2.309
102801	28	2	0.440	104003	40	2	0.645
103004	30	2	0.475	104006	40	3	0.942
103002	30	5	1.061	104002	40	5	1.485

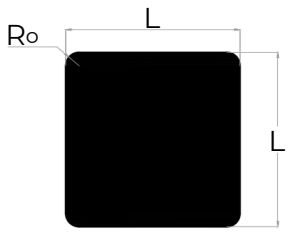


Profile No.	W	T (mm)	Weight (Kg/m)
104001	40	10	2.543
104201	42	3	0.994
104519	44.45	3.18	1.112
104520	44.45	4.76	1.604
104518	44.45	6.35	2.052
104521	44.45	9.53	2.822
104517	44.45	12.7	3.421
104506	45	5	1.696
104902	48.26	3.68	1.393
105010	50	2	0.815

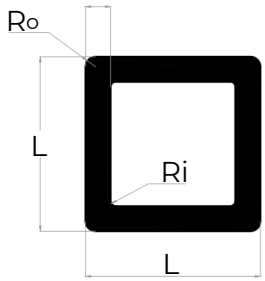
Profile No.	D (mm)	T (mm)	Weight (Kg/m)
105011	50	2.5	1.007
105002	50	3	1.196
105013	50	5	1.909
105105	50.8	10	3.335
106004	60	5	2.333
106107	60.33	3.91	1.871
106108	60.33	5.54	2.573
106407	63.5	4.76	2.373
106406	63.5	19.05	7.182
107502	75	5	2.970



Profile No.	D (mm)	T (mm)	Weight (Kg/m)	Profile No.	D (mm)	T (mm)	Weight (Kg/m)
107708	76.2	4.76	2.886	110210	101.6	5.74	4.668
107709	76.2	9.53	5.387	110211	101.6	9.53	7.439
107706	76.2	12.7	6.842	112005	120	3	2.978
107707	76.2	19.05	9.234				
108001	80	3	1.960				
108002	80	5	3.181				
108907	88.9	3.175	2.309				
108903	88.9	5.49	3.883				
108904	88.9	7.62	5.254				
108906	88.9	19.05	11.286				

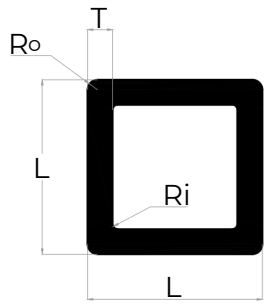


Profile No.	L (mm)	Ro (mm)	Weight (Kg/m)	Profile No.	D (mm)	T (mm)	Weight (Kg/m)
202901	20	-	1.080				
203605	25	-	1.688				
204303	30	-	2.430				
205703	40	-	4.320				
207103	50	-	6.750				
208501	60	-	9.720				
210804	76.2	-	15.676				
211409	80	-	17.280				



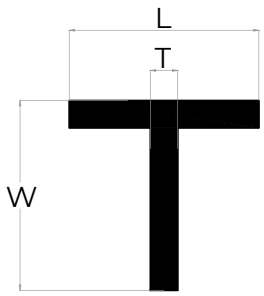
Profile No.	L (mm)	T (mm)	R_0 (mm)	Ri (mm)	Weight (Kg/m)
101501	10	1	-	-	0.097
102205	15	1	-	-	0.151
102206	15	2	-	-	0.281
102901	20	1.5	-	-	0.300
102902	20	2	-	-	0.389
103606	25	0.85	-	-	0.221
103602	25	1.5	-	-	0.381
103601	25	2	-	-	0.497
104301	30	2	-	-	0.605
104302	30	3	-	-	0.875

Profile No.	L (mm)	T (mm)	R_0 (mm)	Ri (mm)	Weight (Kg/m)
105015	35	0.75	-	-	0.278
105715	40	0.9	-	-	0.381
107113	40	0.9	-	-	0.478
105708	40	1.2	-	-	0.502
105701	40	2	-	-	0.821
105702	40	3	-	-	1.199
105703	40	4	-	-	1.555
107102	50	2	-	-	1.037
107103	50	3	-	-	1.523
107105	50	4	-	-	1.987



Profile No.	L (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
107101	50	5	-	-	2.430
108505	60	0.9	-	-	0.575
108501	60	4	-	-	2.419
111405	80	3	-	-	2.495
111403	80	4	-	-	3.283
111413	80	5	-	-	4.050
112801	90	4	-	-	3.715
114203	100	2	-	-	2.117
114202	100	4	-	-	4.147
114403	101.6	12.7	-	-	12.193

Profile No.	L (mm)	T (mm)	Ro (mm)	Ri (mm)	Weight (Kg/m)
118401	130	2.4	-	-	3.308
122701	160	9	-	-	14.677
125501	180	10	-	-	18.360
128301	200	3.5	-	-	7.428



Profile No.	L (mm)	W (mm)	T (mm)	Weight (Kg/m)
201902	**15**	**15**	**1.5**	**0.116**
202505	**20**	**20**	**1.5**	**0.157**
203207	**25**	**25**	**2**	**0.259**
205017	**40**	**40**	**4**	**0.821**
206303	**50**	**50**	**5**	**1.283**
207505	**60**	**60**	**6**	**1.847**

Profile No.	L (mm)	T (mm)	R (mm)	Weight (Kg/m)

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GENERAL CATALOGUE