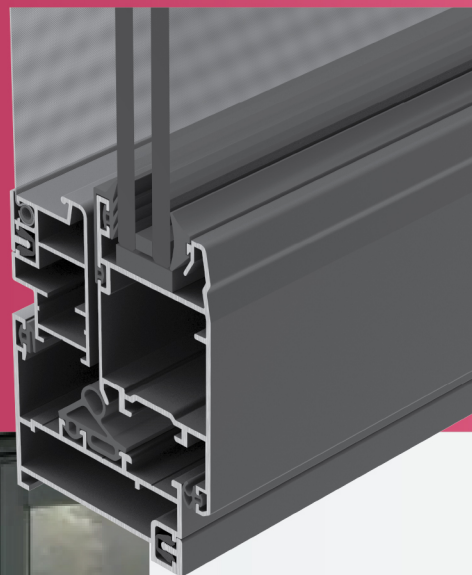




Machines & Aluminium Center
مركز ماكينات ومستلزمات الألومنيوم

ROCK 60

Hinged System Catalogue



2026

Ver.01

MACHINES AND ALUMINUM CENTER

Machines and Aluminum Center is an Egyptian based company established in the year 1981 and started its activity with aluminium applications in architectural and construction field.

They represent and cooperate with several leading European firms in field of aluminium business including aluminium fabrication machinery, accessories and hardware for architectural applications and different aluminium systems varying from windows and doors, up to facades and solar protection.

Our goal is to supply our clients with whatever is needed to apply our aluminium systems in the building construction. We are specialized in supplying all required machinery, equipments, dies, punches, hardware and fittings for our aluminium systems.

We offer a wide range of products to local market and neighbor countries. Our product range includes windows and doors, partition systems, different façade solutions and the related integrated accessories.

We partner with our customers with value added services which means that with the help of our specialized team of engineers, we provide our clients with technical support to assist them in improving their product's quality.

We are committed to innovative and creative product design to fulfill all architectural requirements. Our products can meet the most exacting engineering and technical standards while overcoming sophisticated design challenges.



Machines & Aluminium Center
مركز ماكينات ومستلزمات الألومنيوم

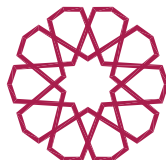
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The manufacturer reserves the right to modify the items in this catalog without advanced notice.

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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

PRODUCED IN THE FACTORY

Name: MACHINES & ALUMINIUM CENTER
Address: 122, MOHIY AL-DIN ABU AL-EZZ ST., DOKKI - GIZA - EGYPT

PLACED ON THE MARKET BY

Name: MACHINES & ALUMINIUM CENTER
Address: 122, MOHIY AL-DIN ABU AL-EZZ ST., DOKKI - GIZA - EGYPT

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.

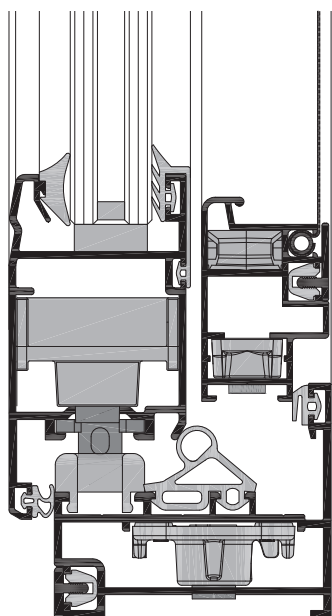
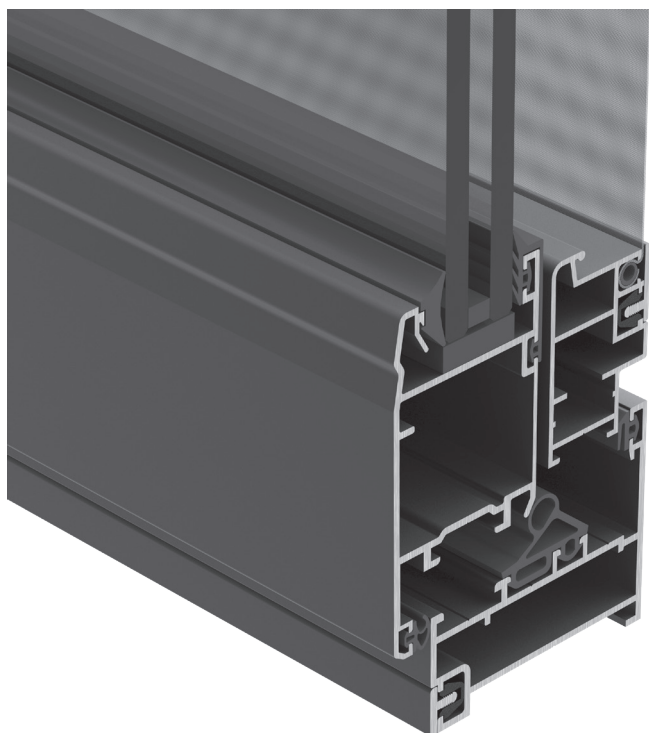
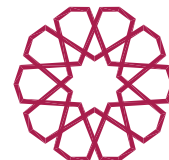
Faenza, February 12, 2016

Resp. Tecnico ECO S.p.A.

Ing. Gianluca Giamberini



ECO Certificazioni S.p.A. • Via Mengolina, 33
48018 Faenza (RA) - ITALY
Tel. +39 0546 624911 • Fax +39 0546 624922
E-mail: info@eco-cert.it • www.ecocertificazioni.eu



**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.

- 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.

Frame Height

52 mm. to 130 mm.

Sash Depth

39 mm. to 71 mm.

Sash Height

57 mm. to 113 mm.

Max Glass Thickness

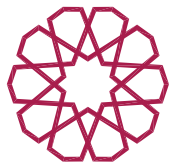
Up to 36 mm.

Max Sash Weight

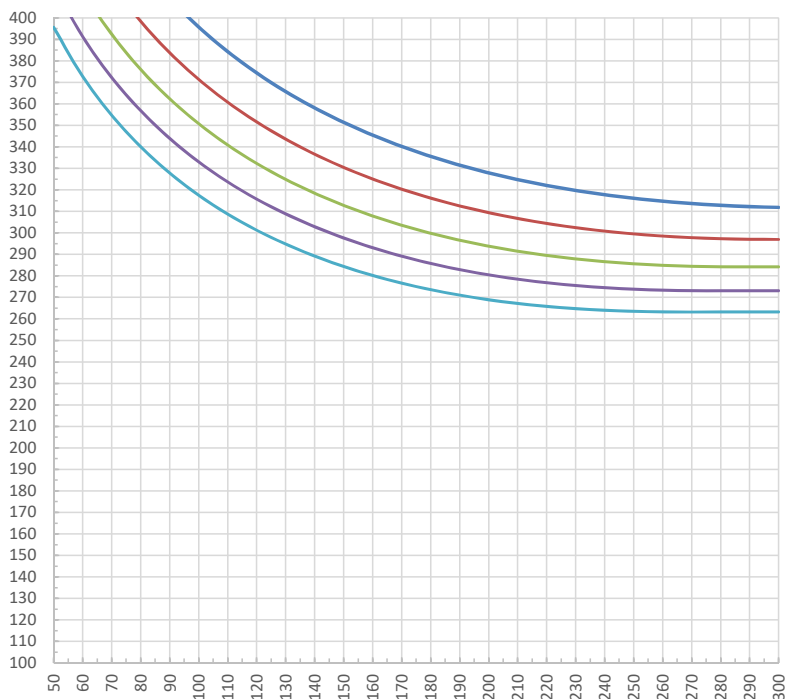
Up to 160 kg.

Sealing Type

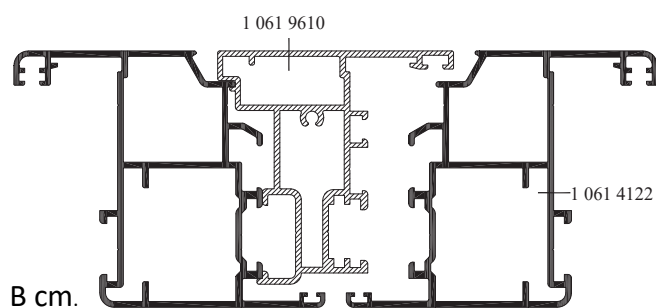
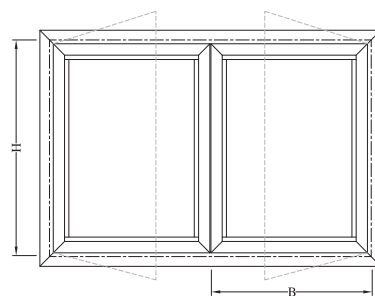
EPDM gasket with central gasket



H cm. f max 1/200

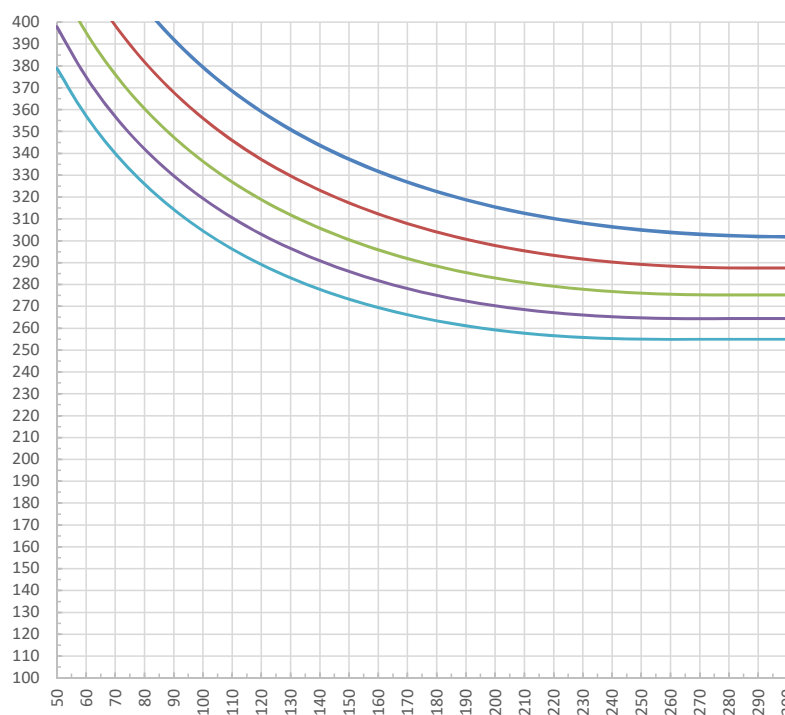


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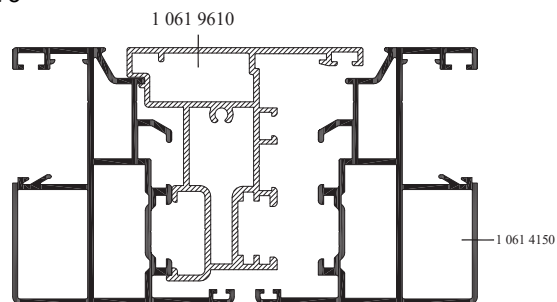
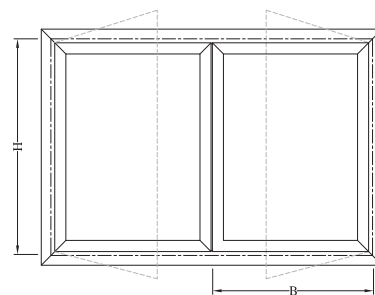


$I_x = 100.68 \text{ cm}^4$

H cm. f max 1/200

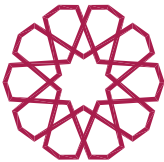


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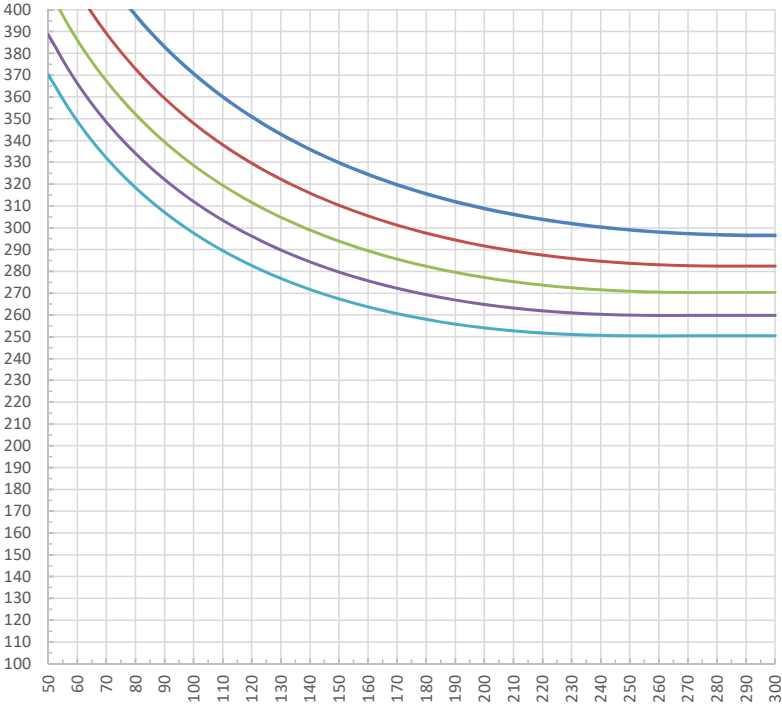
B cm.

$I_x = 88.48 \text{ cm}^4$

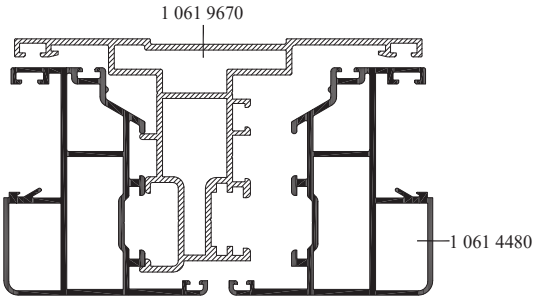
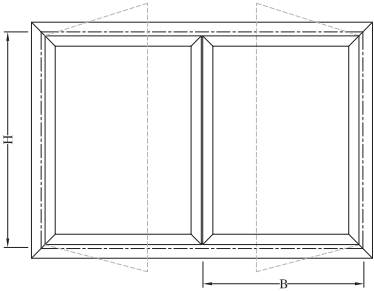


H cm.

f max 1/200

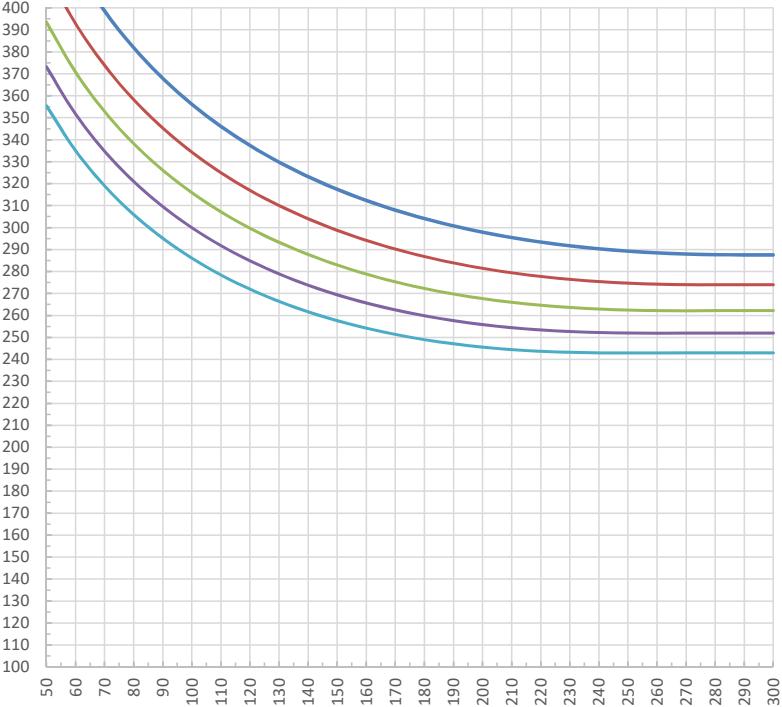


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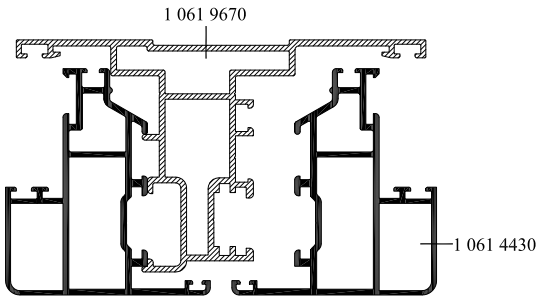
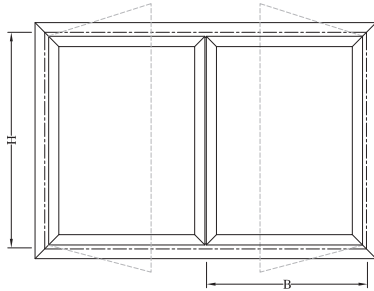


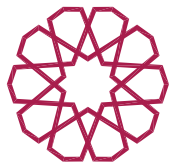
H cm.

f max 1/200

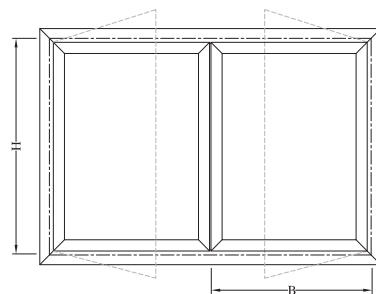
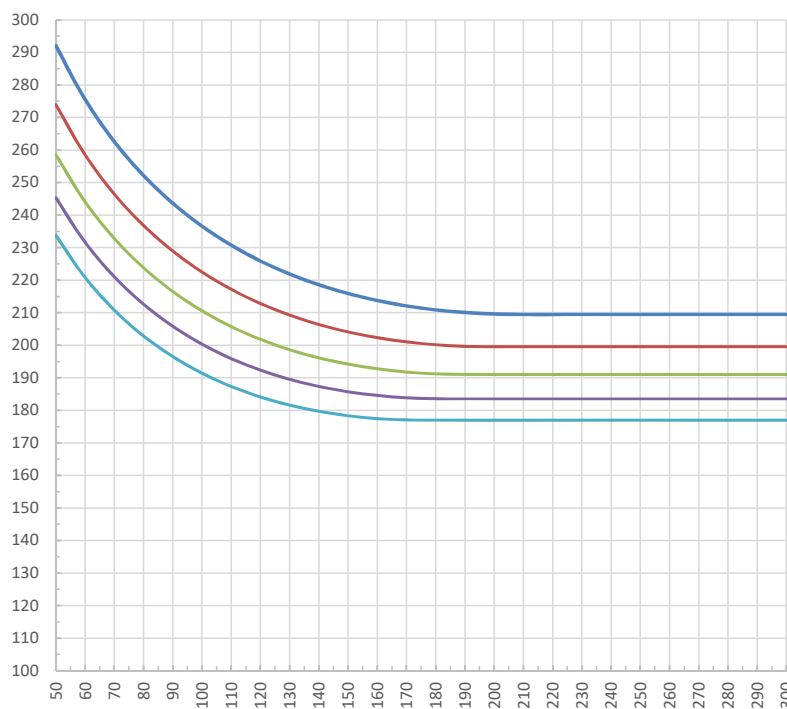


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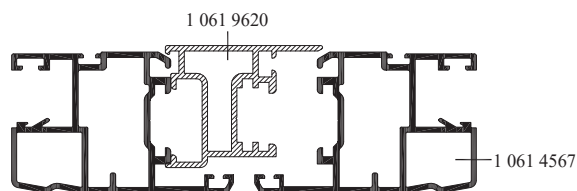




H cm. f max 1/200



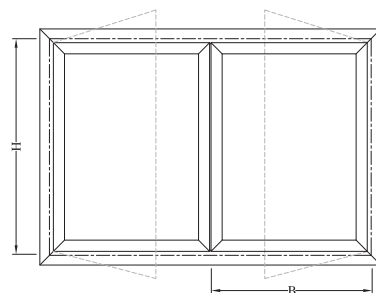
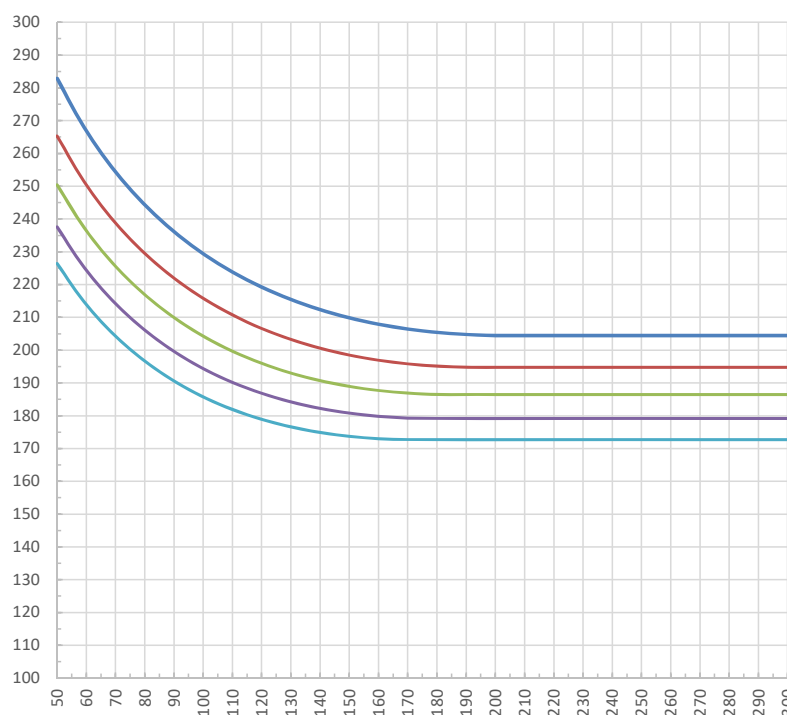
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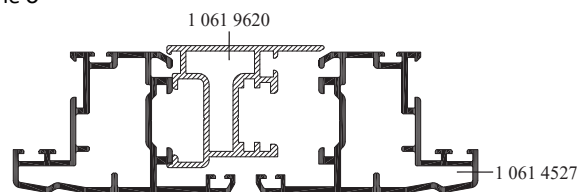
B cm.

$I_x = 20.53 \text{ cm}^4$

H cm. f max 1/200

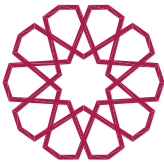


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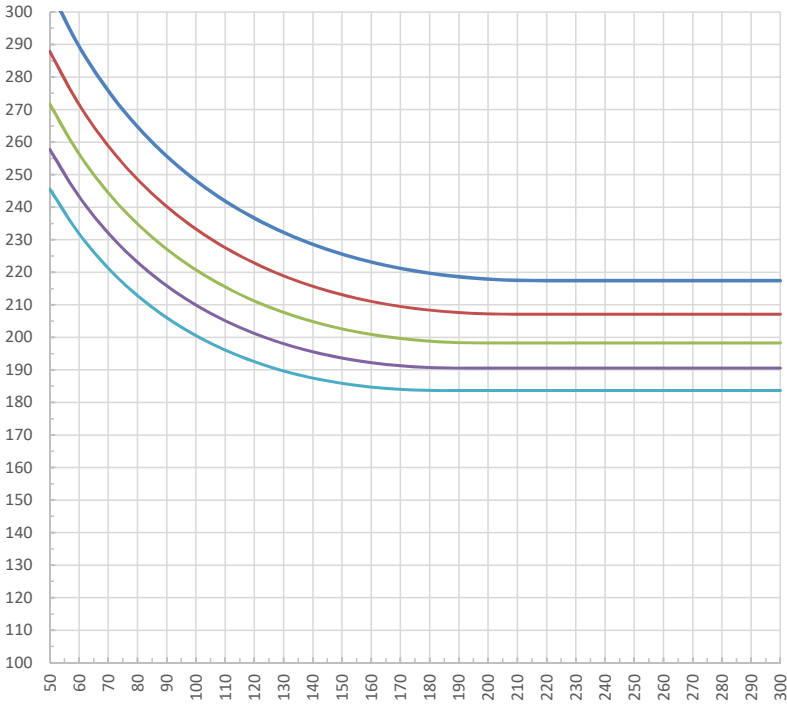
B cm.

$I_x = 18.63 \text{ cm}^4$

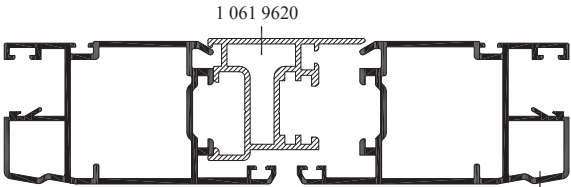
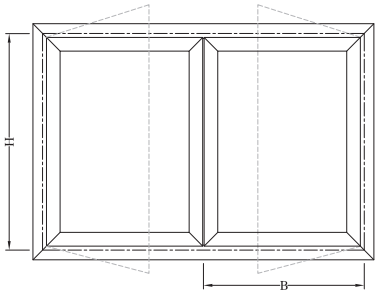


H cm.

f max 1/200



Zone 1
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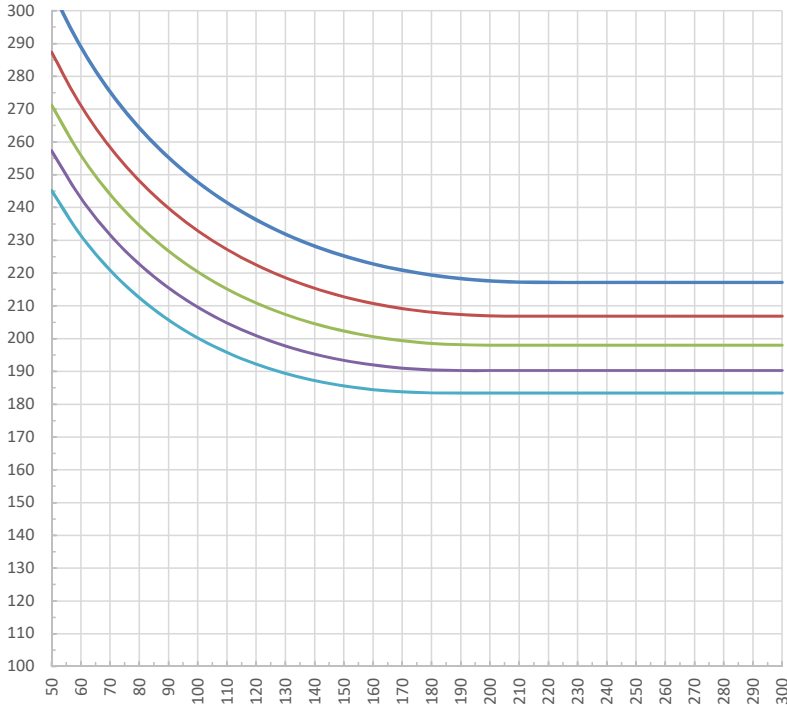
B cm.

Ix = 23.85 cm⁴

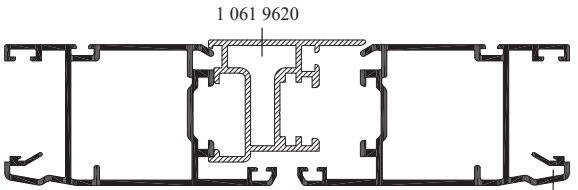
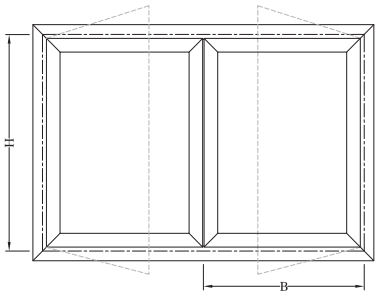
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H cm.

f max 1/200



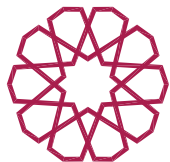
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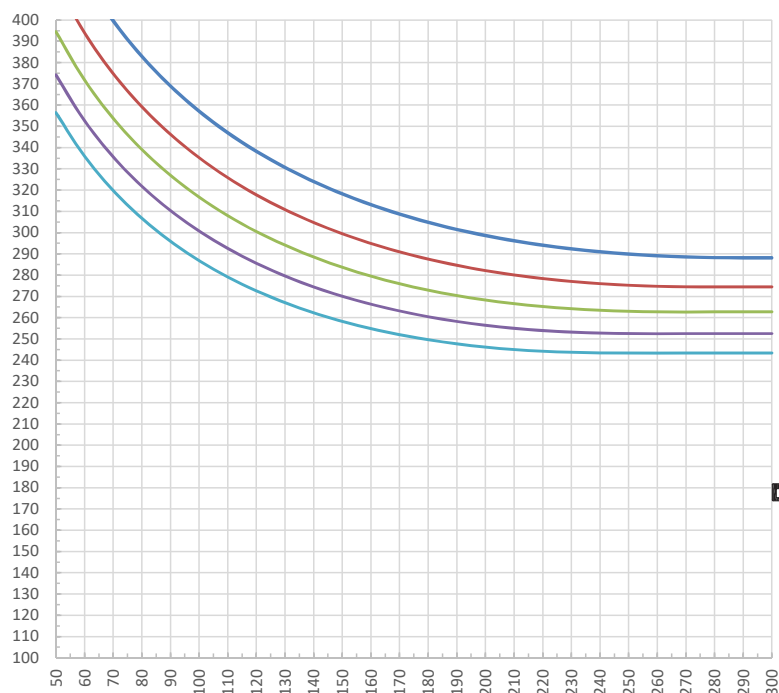
B cm.

Ix = 23.71 cm⁴

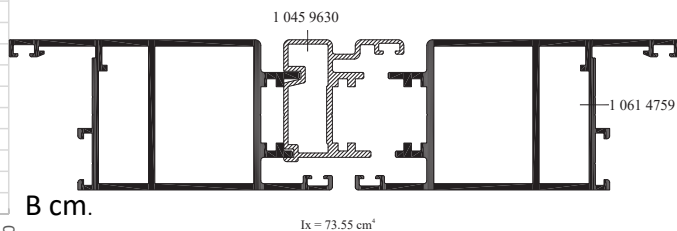
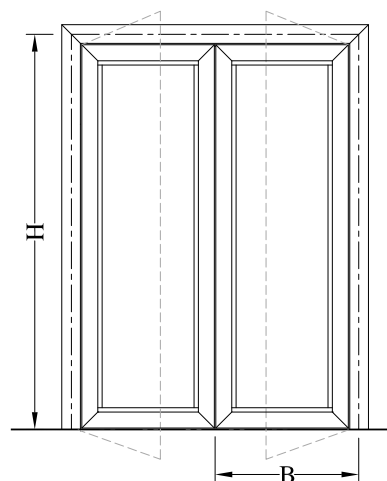
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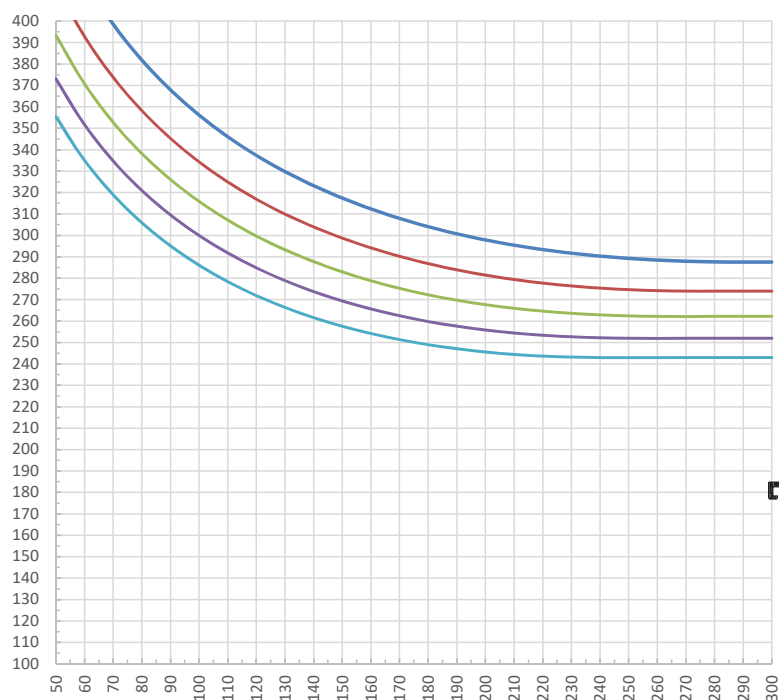
H cm. f max 1/200



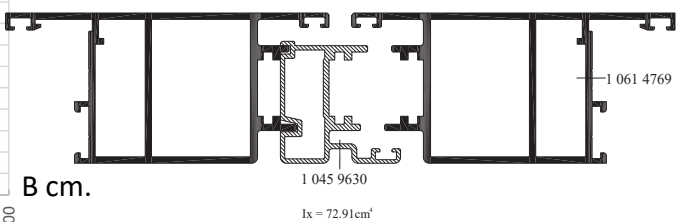
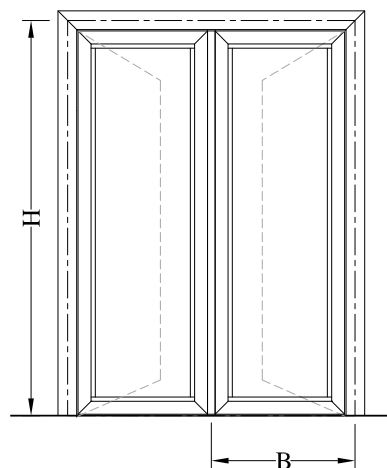
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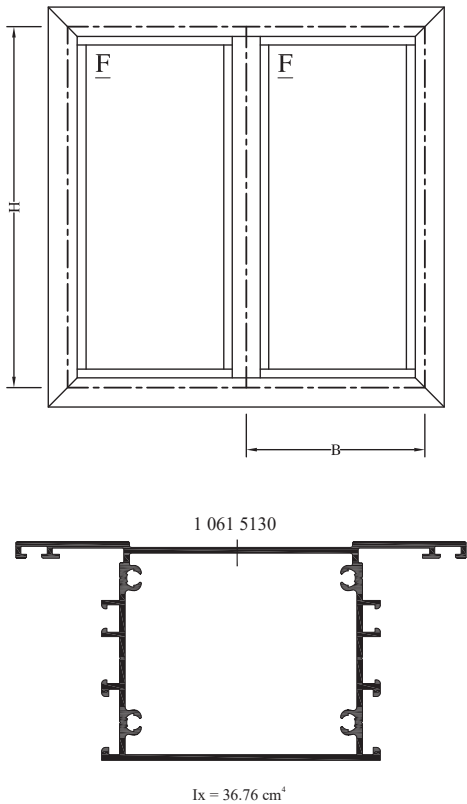
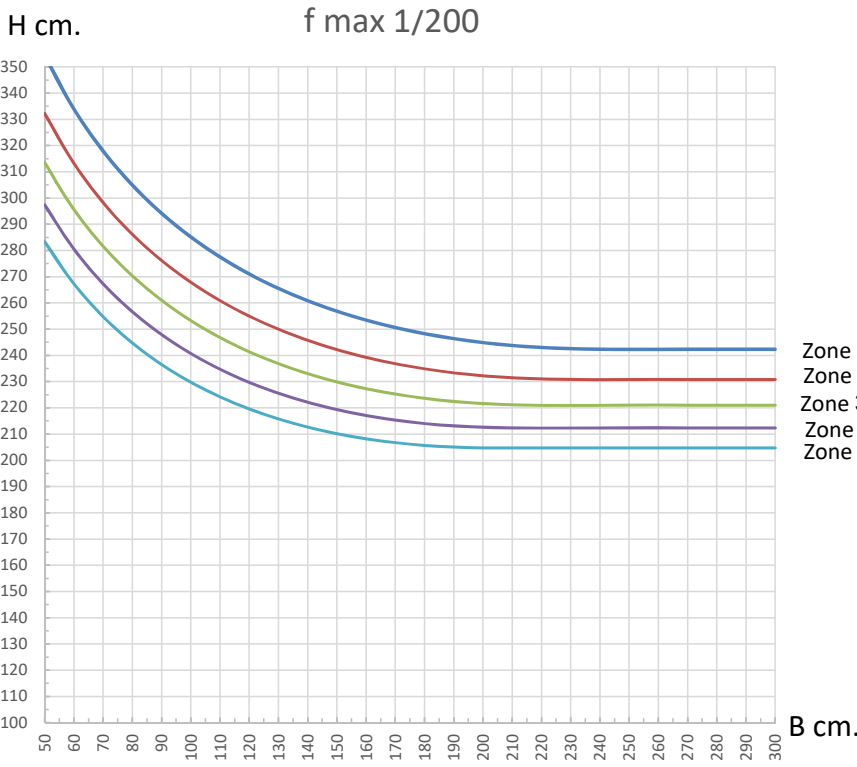
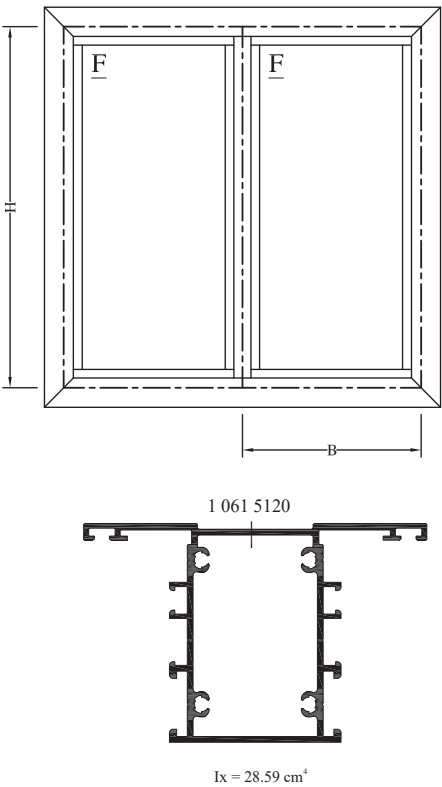
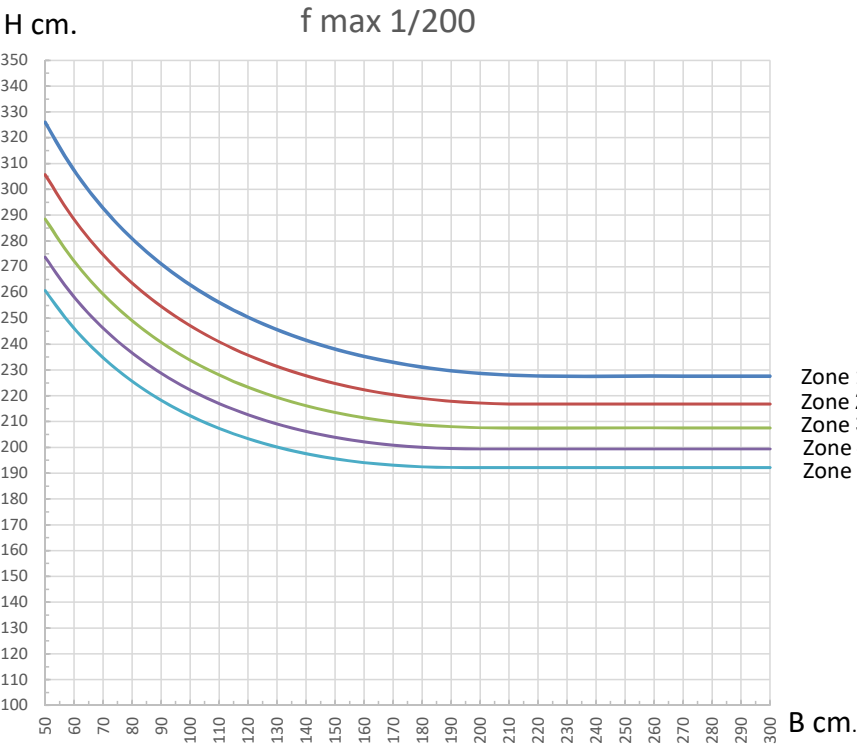
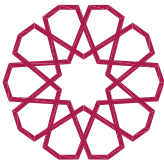


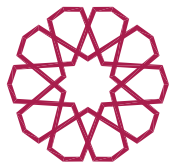
H cm. f max 1/200



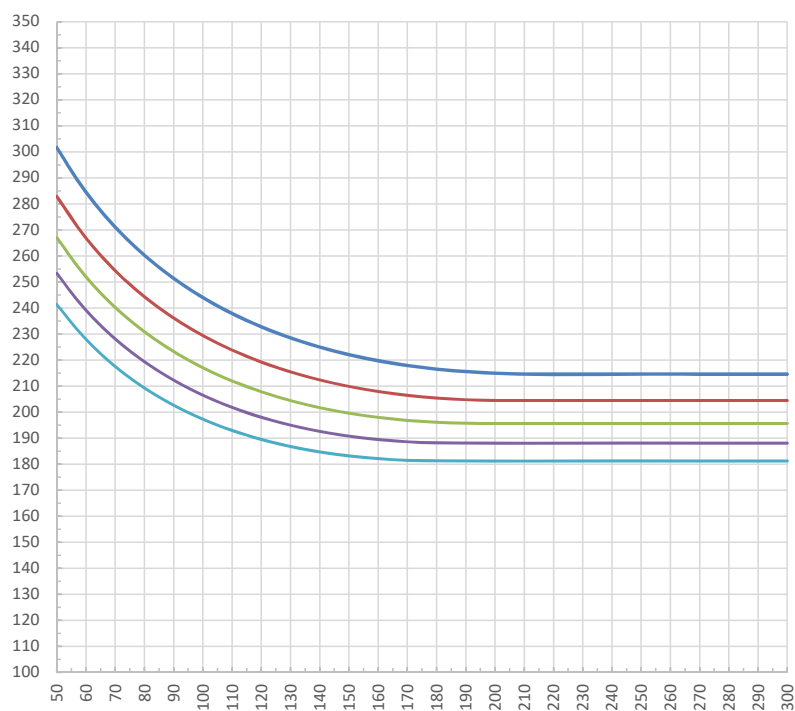
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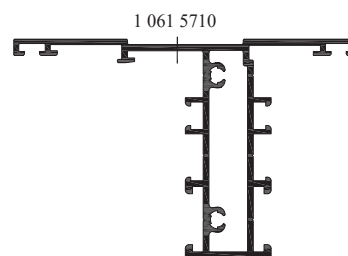
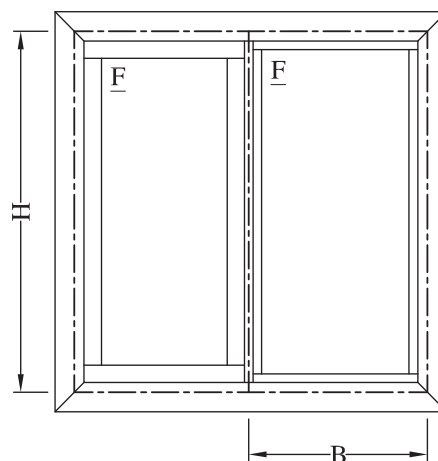




H cm. f max 1/200

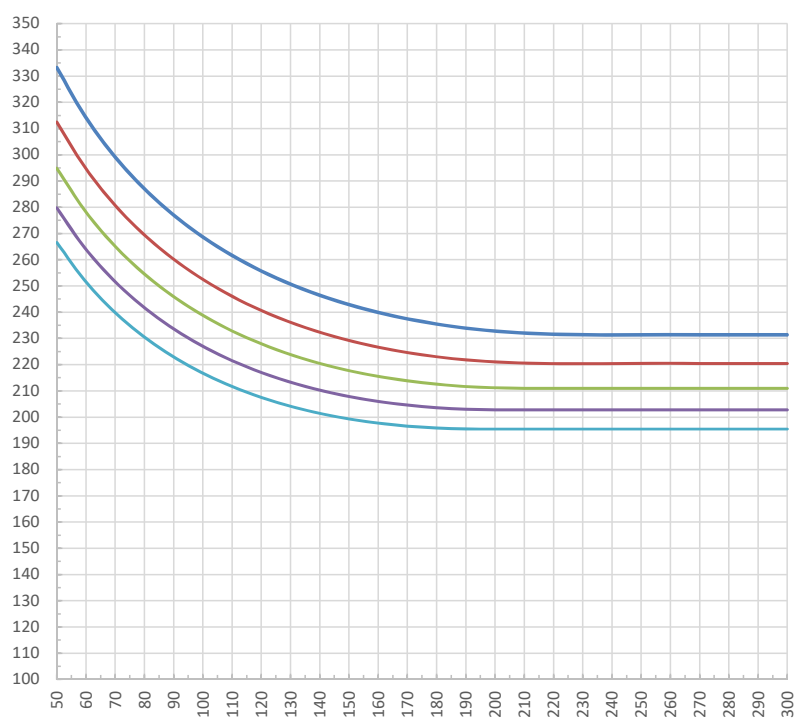


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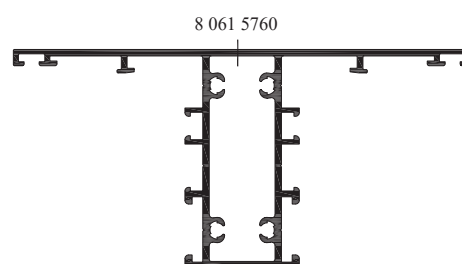
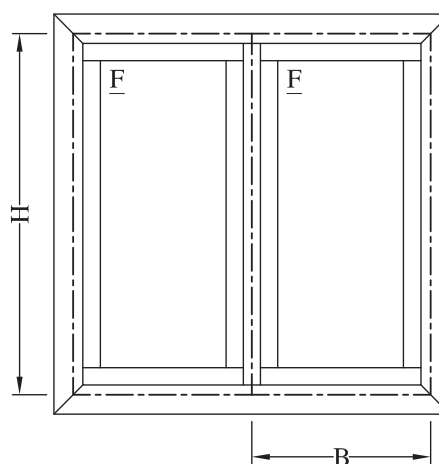


$I_x = 22.62 \text{ cm}^4$

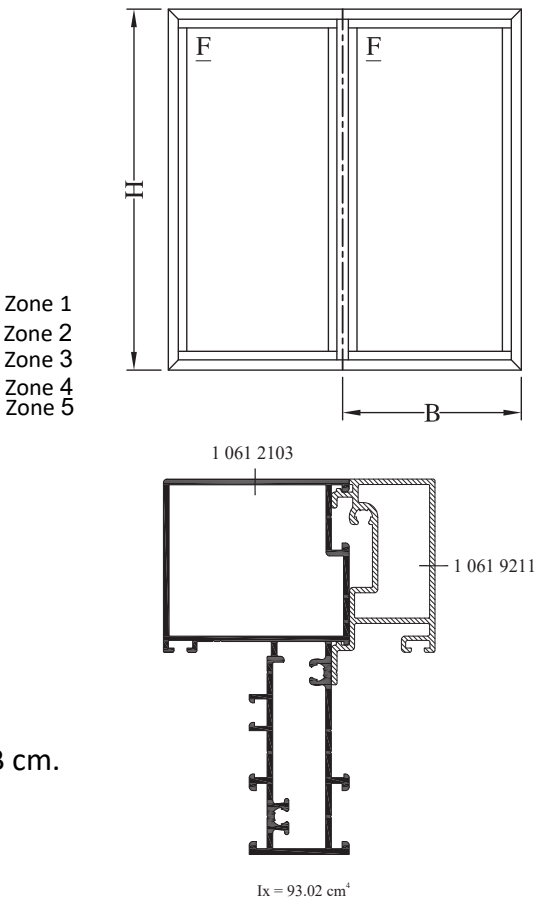
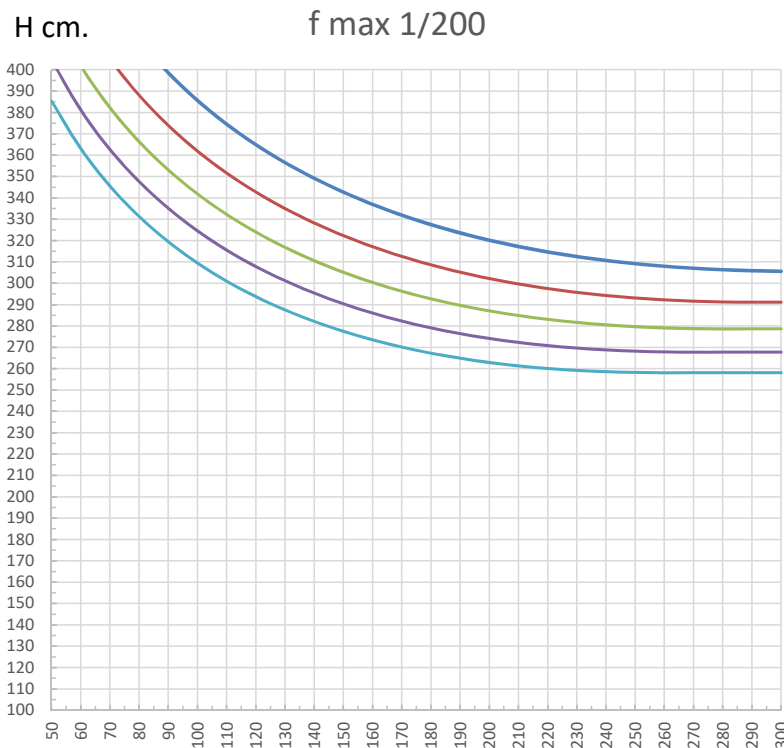
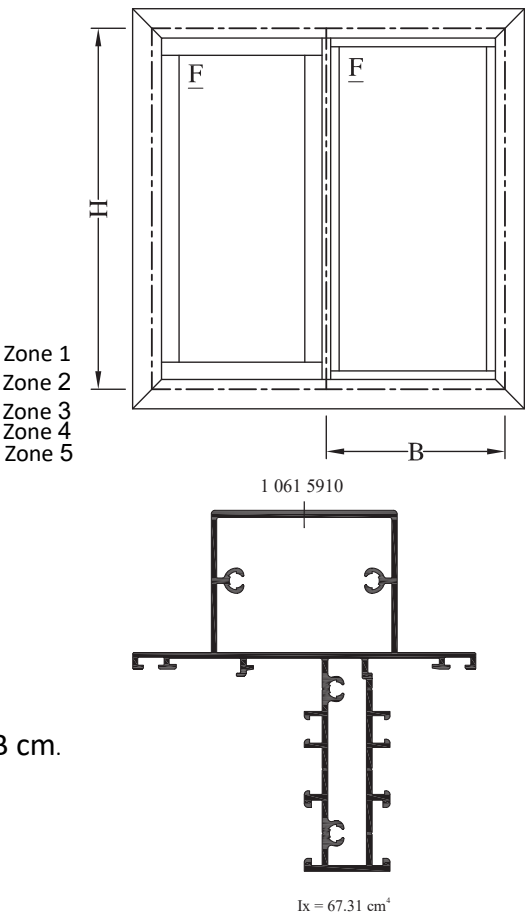
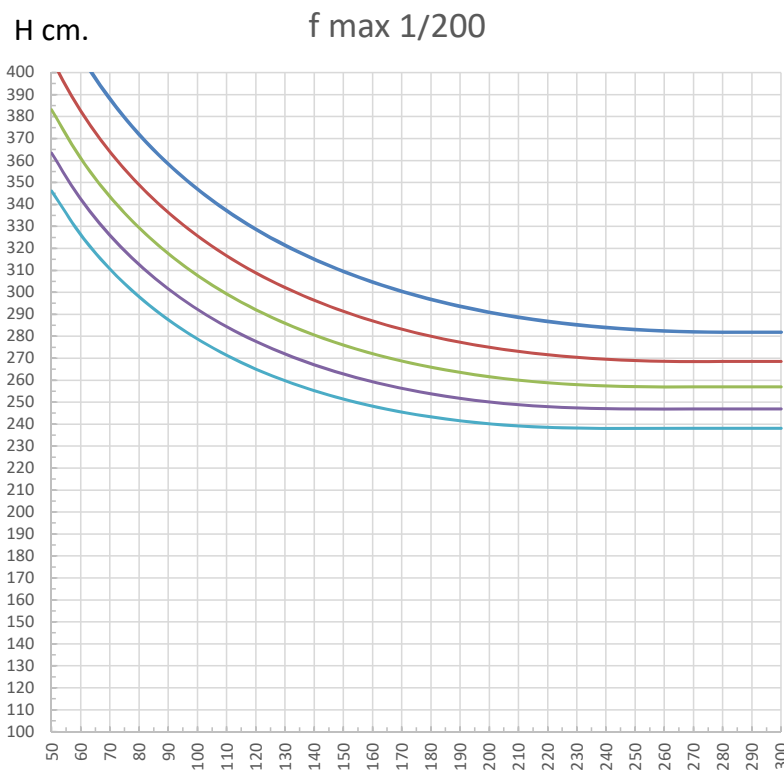
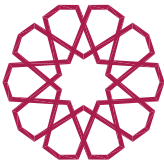
H cm. f max 1/200

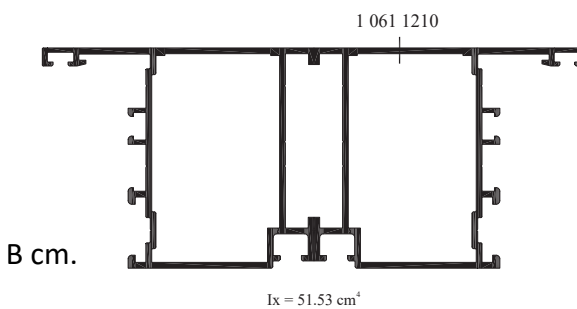
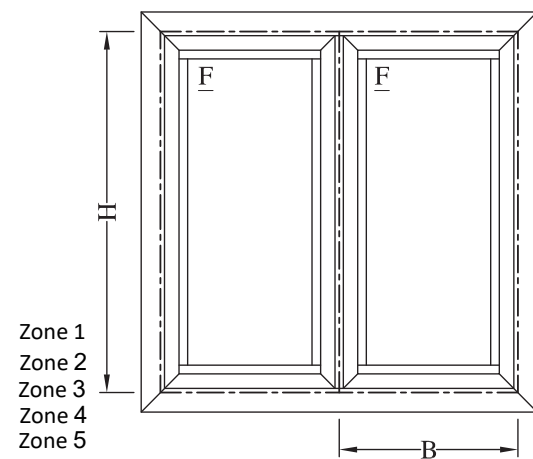
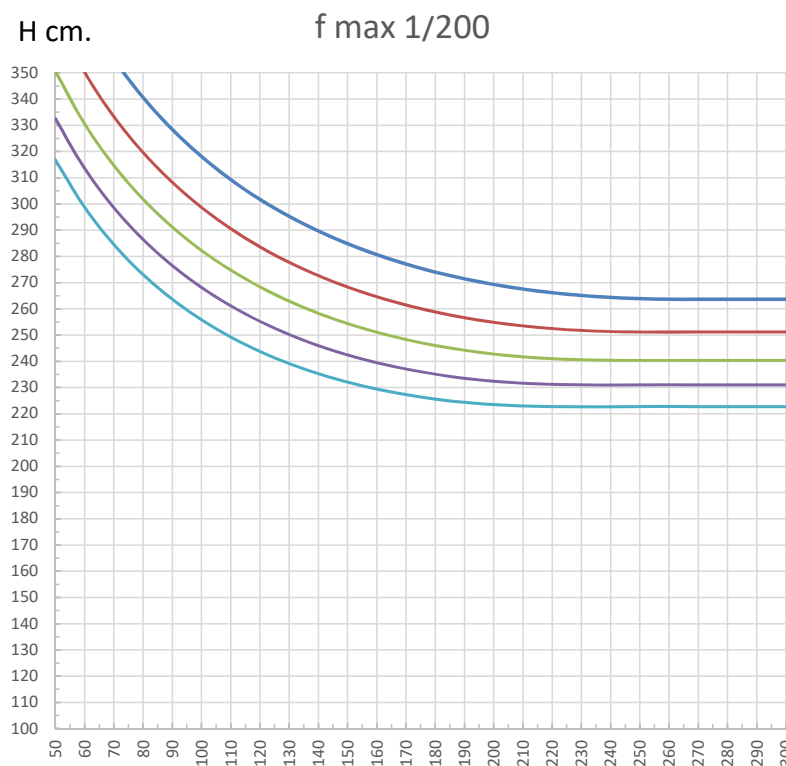
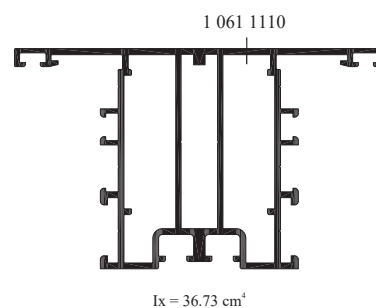
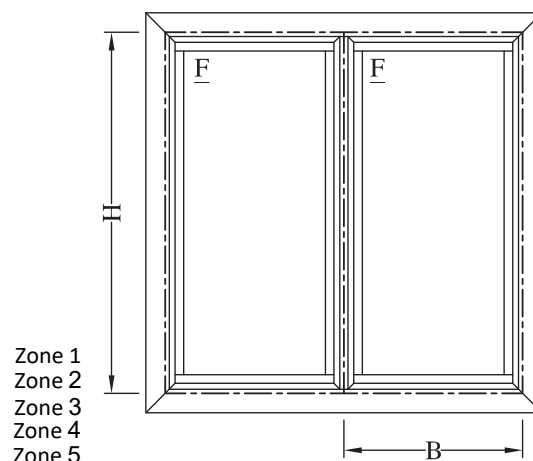
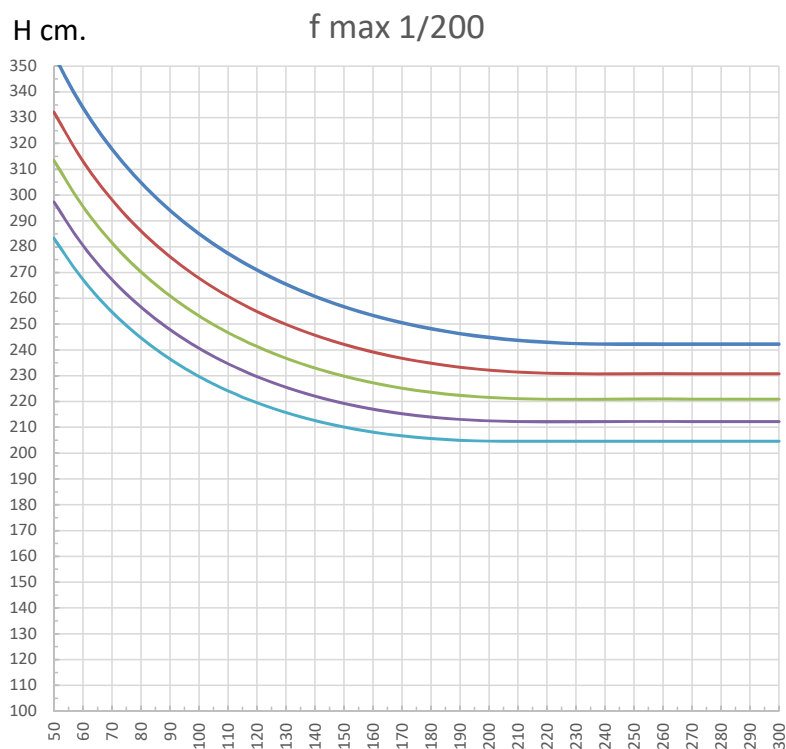
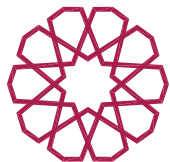


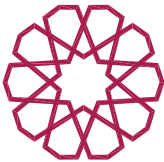
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$I_x = 30.55 \text{ cm}^4$

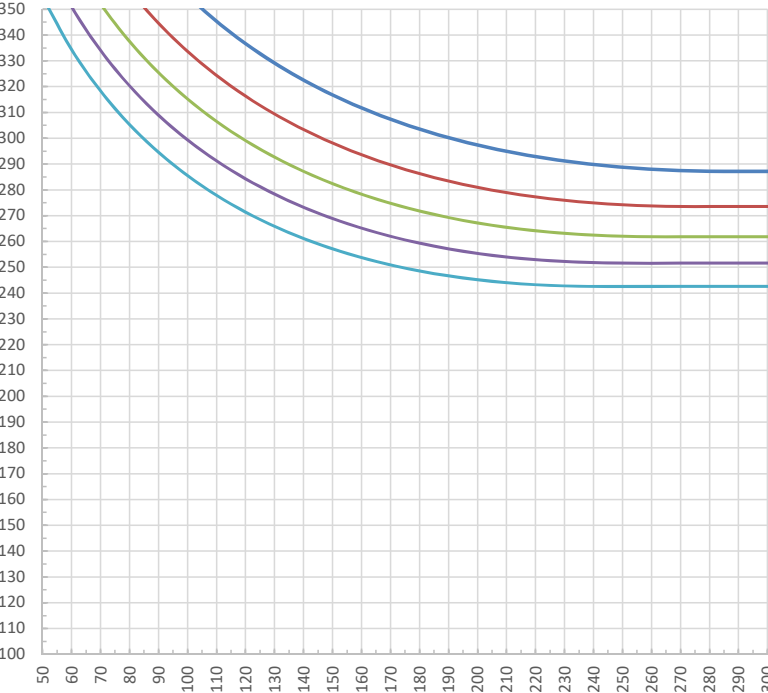




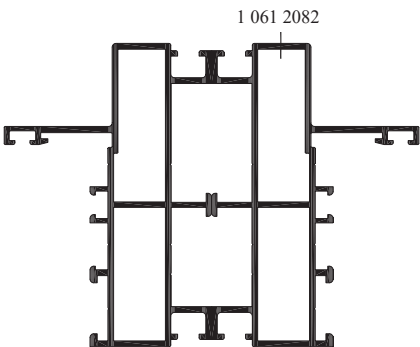
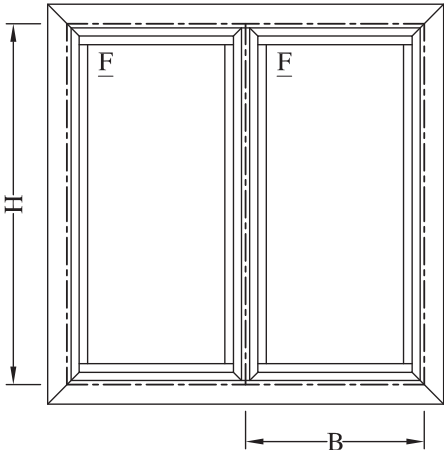


H cm.

f max 1/200

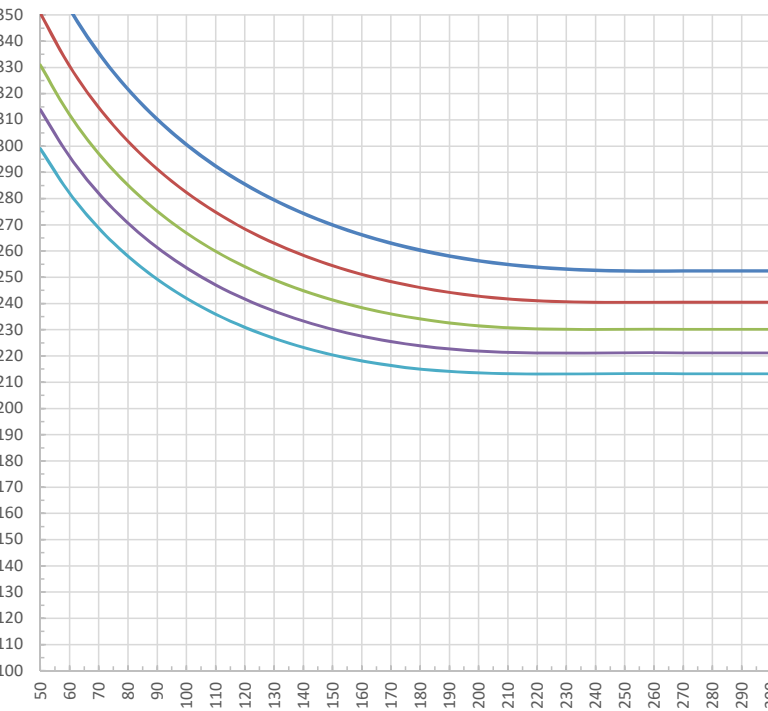


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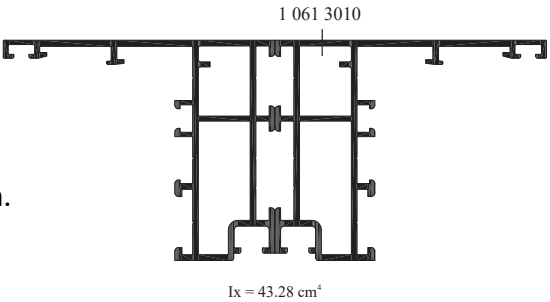
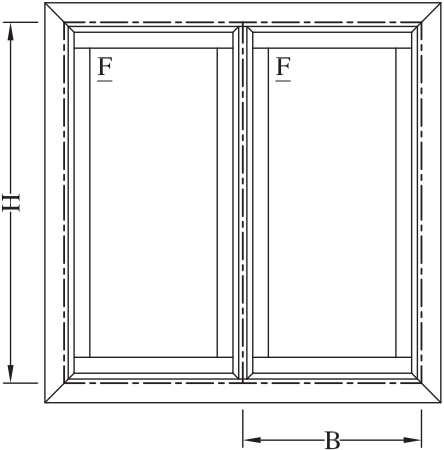


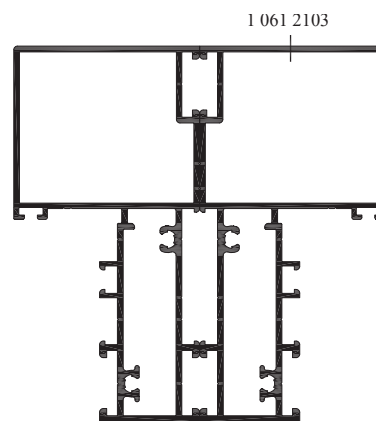
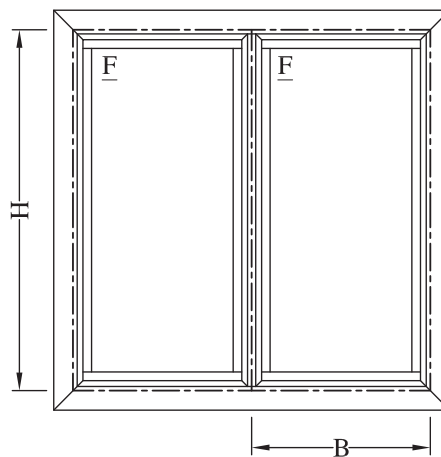
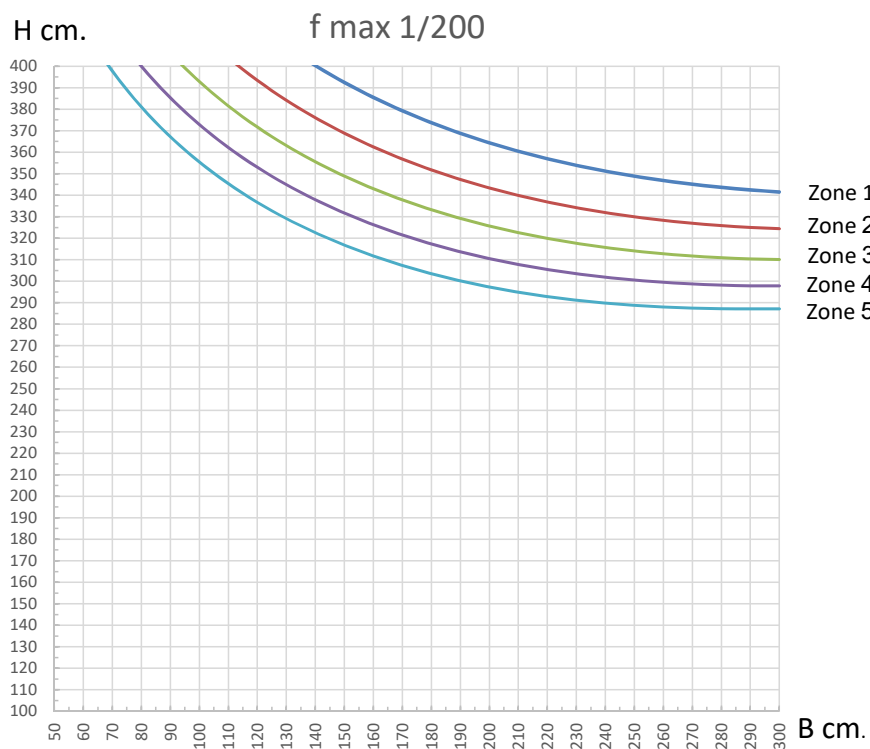
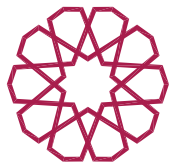
H cm.

f max 1/200

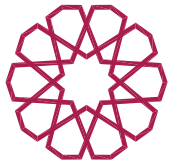


Zone 1
 Zone 2
 Zone 3
 Zone 4
 Zone 5

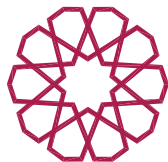


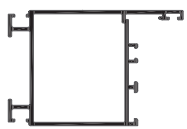
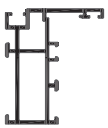
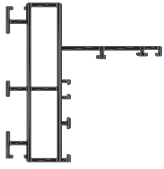
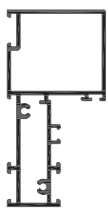
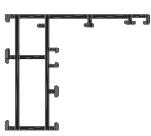
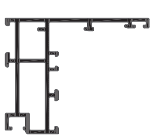
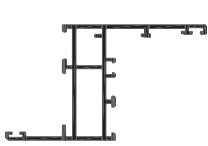
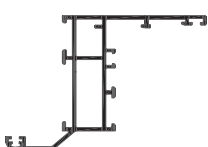
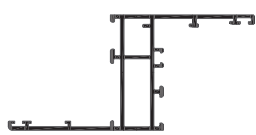


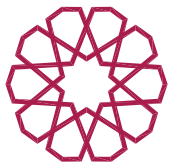
$$I_x = 142.39 \text{ cm}^4$$



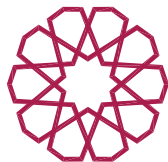
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					I _x	I _y	
	10611100	Frame Profile	1.103	345	18.37	6.20	44
	10611110	Frame Profile	1.031	341	18.36	5.75	44
	10611130	Frame Profile	1.245	426	23.65	12.10	44
	10611138	Frame Profile	1.315	449	29.93	13.80	44
	10611150	Frame Profile	1.387	490	27.49	25.59	45
	10611152	Frame Profile	1.451	518	34.46	30.88	45
	10611153	Frame Profile	1.474	534	36.80	33.80	45
	10611158	Frame Profile	1.431	506	35.25	28.58	45
	10611200	Frame Profile	1.291	407	25.74	21.04	46
	10611210	Frame Profile	1.270	404	25.76	20.57	46
	10611300	Frame Profile	1.342	414	28.27	32.36	46

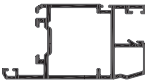
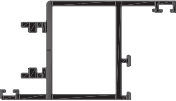
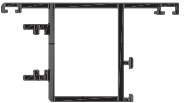
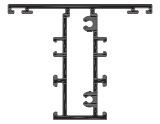
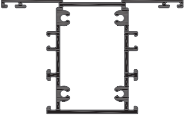
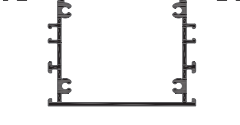
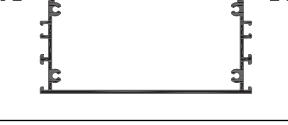
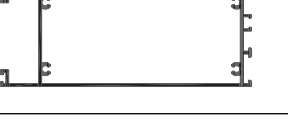


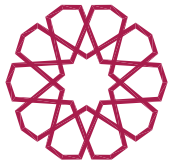
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	10611320	Frame Profile	1.459	464	30.33	39.34	46
	10611810	Frame Profile	1.122	362	18.02	6.25	47
	10612082	Frame Profile	1.437	459	36.25	9.05	47
	10612088	Frame Profile	1.577	521	37.87	21.24	49
	10612103	Frame Profile	1.719	434	71.20	17.15	47
	10613000	Frame Profile	1.248	409	21.17	16.82	48
	10613010	Frame Profile	1.290	431	21.64	17.35	48
	10613030	Frame Profile	1.403	500	27.93	25.00	48
	10613038	Frame Profile	1.458	513	34.61	27.20	48
	10613050	Frame Profile	1.510	549	31.90	40.83	49

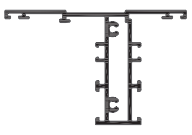
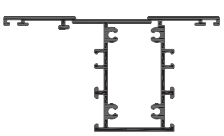
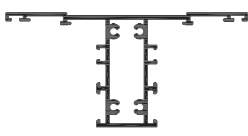
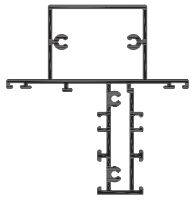


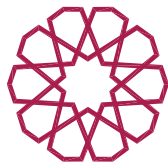
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	10613052	Frame Profile	1.593	581	40.00	47.38	49
	10614122	Leaf Profile	1.585	459	37.46	23.84	50
	10614140	Leaf Profile	1.549	408	30.78	14.22	50
	10614150	Leaf Profile	1.474	421	30.37	12.15	50
	10614220	Leaf Profile	1.454	468	28.75	27.64	50
	10614410	Leaf Profile	1.108	343	17.96	8.56	51
	10614430	Leaf Profile	1.211	343	17.41	7.81	51
	10614460	Leaf Profile	1.356	360	22.36	9.95	51
	10614480	Leaf Profile	1.269	359	21.13	8.53	51
	10614517	Leaf Profile	1.013	316	6.73	8.94	52
	10614527	Leaf Profile	0.952	308	6.72	8.05	52
	10614567	Leaf Profile	1.049	334	7.85	10.04	52

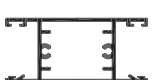
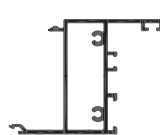


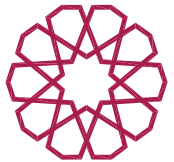
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					I _x	I _y	
	10614587	Leaf Profile	1.154	362	9.60	19.61	52
	10614597	Leaf Profile	1.071	381	9.51	17.10	52
	10614759	Leaf Profile	2.258	459	32.72	66.66	53
	10614769	Leaf Profile	2.258	459	31.60	66.66	53
	10614959	Leaf Profile	1.715	414	24.99	32.61	53
	10614969	Leaf Profile	1.715	414	23.70	32.61	53
	10615020	Transom Profile	1.372	469	26.23	26.58	54
	10615110	Transom Profile	1.264	426	21.97	10.73	54
	10615120	Transom Profile	1.515	469	28.59	27.88	54
	10615130	Transom Profile	1.773	529	36.76	74.90	54
	10615140	Transom Profile	2.204	627	49.97	217.19	55
	10615340	Transom Profile	2.295	650	54.93	255.60	55

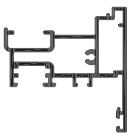
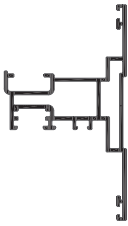
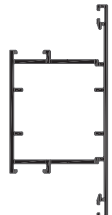
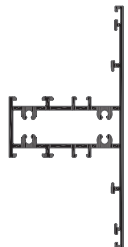
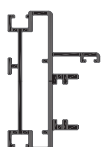


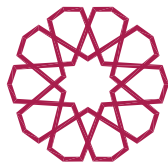
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					I _x	I _y	
	10615710	Transom Profile	1.353	479	22.62	19.29	56
	10615720	Transom Profile	1.600	518	29.32	36.97	56
	10615760	Transom Profile	1.623	553	27.87	41.08	57
	10615910	Transom Profile	2.025	558	67.31	31.03	57
	10616140	Glass Beading Profile	0.402	235	2.58	1.24	58
	10616160	Glass Beading Profile	0.370	221	2.04	1.18	58
	10616170	Glass Beading Profile	0.337	204	1.17	1.08	58
	10616180	Glass Beading Profile	0.324	197	0.93	1.04	58
	10616190	Glass Beading Profile	0.311	189	0.55	0.97	58

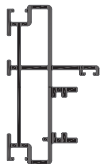
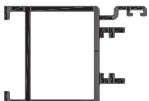
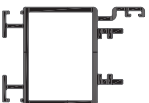
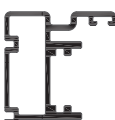


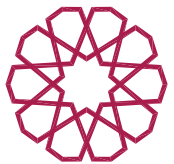
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	10616192	Glass Beading Profile	0.296	181	0.42	0.90	58
	10616193	Glass Beading Profile	0.268	164	0.32	0.77	58
	10616195	Glass Beading Profile	0.211	102	0.21	0.63	58
	10616500	Glass Beading Profile	0.142	71	0.07	0.15	58
	10619110	Insert Profile	0.769	349	13.05	2.16	59
	10619120	Insert Profile	0.329	173	0.42	0.79	59
	10619211	Insert Profile	0.773	256	8.47	2.75	59
	10619253	Insert Profile	0.751	262	2.44	8.04	59
	10619352	Transom Profile	1.112	346	7.62	19.50	59
	10619410	Insert Profile	0.518	159	3.63	0.97	59
	10619510	Insert Profile	0.703	323	10.02	4.08	59
	10619530	Insert Profile	1.200	377	23.46	11.85	59

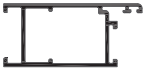


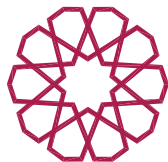
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	10619610	Insert Profile	1.345	399	23.12	9.97	60
	10619620	Insert Profile	0.707	246	3.63	2.68	60
	10619670	Insert Profile	1.650	524	28.38	32.92	60
	10619702	Transom Profile	1.595	438	25.51	48.84	61
	10619810	Glass Beading Profile	0.439	246	0.85	2.99	60
	10619820	Insert Profile	0.399	135	0.81	1.10	60
	10619830	Insert Profile	0.161	71	0.08	0.11	60
	80615760	Transom Profile	1.742	555	30.55	43.86	61
	1 045 2672	Frame Profile	1.523	398.00	26.75	7.06	62



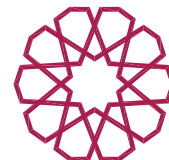
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					I _x	I _y	
	1 045 2682	Frame Profile	1.592	418.00	36.12	7.39	62
	1 045 3623	Frame Profile	1.839	482.00	65.31	13.56	63
	1 045 3700	Frame Profile	1.420	377.00	20.04	22.55	63
	1 045 3720	Frame Profile	1.478	414.00	19.19	24.76	63
	1 045 9010	Insert Profile	0.116	84.00	0.30	0.02	62
	1 045 9140	Insert Profile	0.629	239.00	5.20	1.04	62
	1 045 9440	Insert Profile	0.541	260.00	3.68	0.58	62
	1 045 9630	Insert Profile	0.902	268.00	7.06	3.80	62
	1 045 9910	Control Rod	0.146	48.00	0.19	0.01	62
	50254810	Fly Screen Leaf Profile	0.165	79	0.15	0.21	64

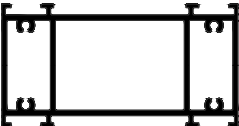


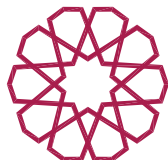
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					I _x	I _y	
	50254830	Fly Screen Leaf Profile	0.307	145	0.69	0.40	64
	50254832	Fly Screen Leaf Profile	0.420	158	0.81	1.09	64
	50281210	Fly Screen Frame Profile	0.634	248	7.89	3.09	64
	50284310	Fly Screen Leaf Profile	0.477	165	1.02	2.11	64
	50284311	Fly Screen Leaf Profile	0.514	179	1.40	2.23	64
	50284460	Fly Screen Leaf Profile	0.630	195	2.08	4.65	64
	50284461	Fly Screen Leaf Profile	0.618	200	1.91	4.00	64
	50289210	Fly Screen Leaf Profile	0.615	230	4.89	1.62	65
	50289610	Insert Profile	0.302	186	1.06	0.41	65
	50289620	Insert Profile	0.672	250	3.13	10.51	65
	59005020	Fly Screen Transom Profile	0.375	107	3.13	0.07	65
	59005410	Fly Screen Transom Profile	0.610	198	5.99	5.70	65

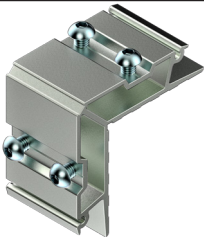
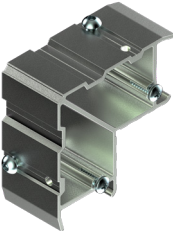
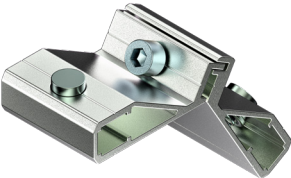
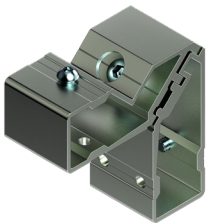
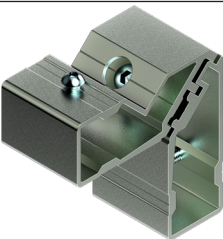
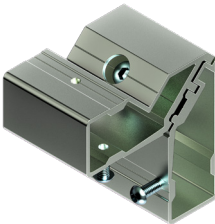


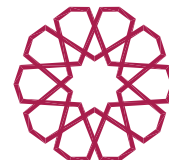
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					I _x	I _y	
	59009100	Additional Profile	0.100	53	0.01	0.08	65
	9 001 1100	Additional Profile	0.092	41.99	0.01	0.01	66
	9 001 1300	Additional Profile	0.240	115.66	1.66	0.03	66
	9 001 1302	Additional Profile	0.308	153.80	2.05	0.24	66
	9 001 1303	Additional Profile	0.285	156.35	1.95	0.17	66
	9 001 1304	Additional Profile	0.259	130.82	1.81	0.05	66
	9 001 1305	Additional Profile	0.263	139.31	1.76	0.05	66
	9 001 1308	Additional Profile	0.291	140.07	1.89	0.27	66
	9 001 1500	Additional Profile	0.348	183.22	6.10	0.03	67
	9 001 1502	Additional Profile	0.424	204.48	6.64	0.38	67
	9 001 1503	Additional Profile	0.401	219.02	7.49	0.32	67
	9 001 1504	Additional Profile	0.370	191.22	6.73	0.07	67
	9 001 1505	Additional Profile	0.383	194.11	6.40	0.07	67

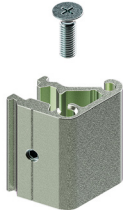
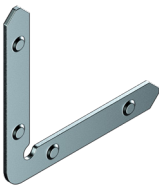
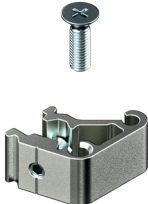


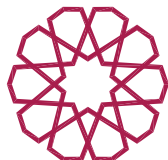
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					I _x	I _y	
	9 001 1507	Additional Profile	0.383	186.07	6.30	0.04	67
	9 001 1700	Additional Profile	0.418	215.22	11.29	0.04	67
	9 001 1702	Additional Profile	0.473	232.62	11.31	0.43	67
	9 002 1200	Additional Profile	0.181	81.24	0.01	0.11	66
	9 008 5100	Connection Profile	2.345	413	120.10	30.67	68



 01 1053 0	Corner Angle Material: Aluminium Finish: Raw	 01 4160 0	Corner Joint Material: Aluminium Finish: Raw
 01 1062 0	Corner Angle Material: Aluminium Finish: Raw	 01 4163 0	Corner Joint Material: Aluminium Finish: Raw
 01 3123 0	Corner Joint Material: Aluminium Finish: Raw	 01 4170 0	Corner Joint Material: Aluminium Finish: Raw
 01 3451 0	Corner Joint Material: Aluminium Finish: Raw	 01 4220 0	Corner Joint Material: Aluminium Finish: Raw
 01 3453 0	Corner Joint Material: Aluminium Finish: Raw	 01 4240 0	Corner Joint Material: Aluminium Finish: Raw
 01 3455 0	Corner Joint Material: Aluminium Finish: Raw	 01 4241 0	Corner Joint Material: Aluminium Finish: Raw



 01 4270 0	Corner Joint Material: Aluminium Finish: Raw	 02 1453 0	T-Joint Material: Aluminium Finish: Raw
 01 4275 0	Corner Joint Material: Aluminium Finish: Raw	 06 3512 0	2 Wings Hinge Material: Aluminium Finish:Raw, Anodized, RAL
 01 7710 0	Alignment Angel Material: Steel Finish: Galvanized	 06 3520 0	2 Wings Hinge Material: Aluminium Finish:Raw, Anodized, RAL
 01 8610 0	Alignment Angel Material: Polyamide Finish: Black	 06 3750 0	2 Wings Hinge Material: Aluminium Finish:Raw, Anodized, RAL
 01 8700 0	Alignment Angel Material: Polyamide Finish: Black	 06 3755 0	2 Wings Hinge Material: Aluminium Finish:Raw, Anodized, RAL
 02 1451 0	T-Joint Material: Polyamide Finish: Black	 06 4760 0	3 Wings Hinge Material: Aluminium Finish:Raw, Anodized, RAL



3 Wings Hinge

Material:
Aluminium

Finish:Raw,
Anodized, RAL

06 4760 5

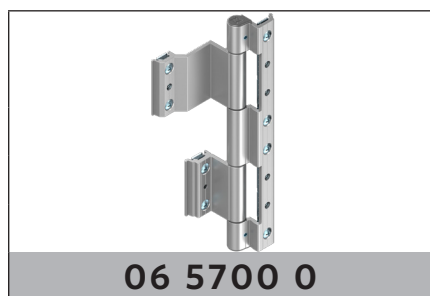


3 Wings Hinge

Material:
Aluminium

Finish:Raw,
Anodized, RAL

08 3230 0



3 Wings Hinge

Material:
Aluminium

Finish:Raw,
Anodized, RAL

06 5700 0



**Balance Arm
(Pair)**

Material:
Aluminium

Finish:
Anodized, RAL

10 1830 1



3 Wings Hinge

Material:
Aluminium

Finish:Raw,
Anodized, RAL

06 5700 5



**Balance Arm
(Pair)**

Material:
Aluminium

Finish:
Anodized, RAL

10 1860 1



2 Wings Hinge

Material:
Aluminium

Finish:Raw,
Anodized, RAL

08 2960 0



**Balance Arm
(Pair)**

Material:
Stainless Steel

Finish:
Natural

10 1950 1



3 Wings Hinge

Material:
Aluminium

Finish:Raw,
Anodized, RAL

08 2990 0



**Balance Arm
(Pair)**

Material:
Stainless Steel

Finish:
Natural

10 1960 1



2 Wings Hinge

Material:
Aluminium

Finish:Raw,
Anodized, RAL

08 3220 0

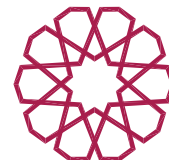


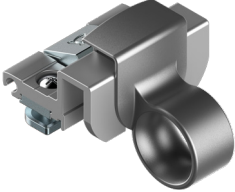
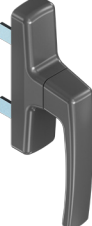
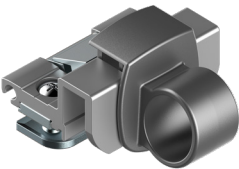
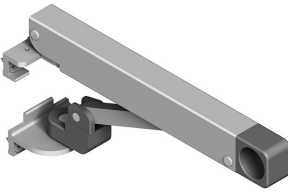
Drainage cap

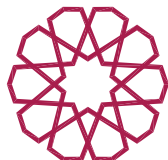
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Polyamide

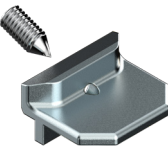
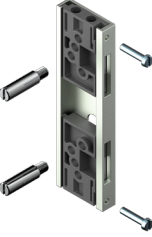
Finish: Black

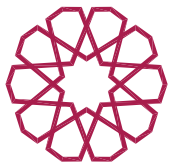
28 1100 0

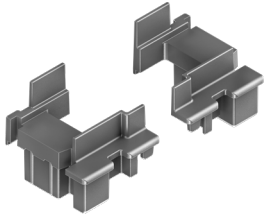
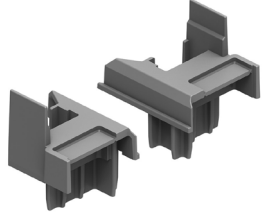
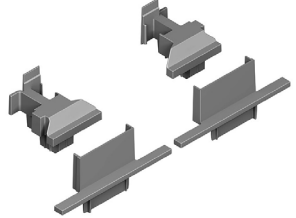
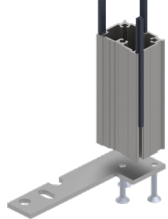
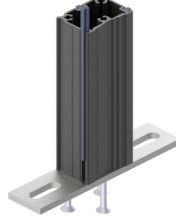
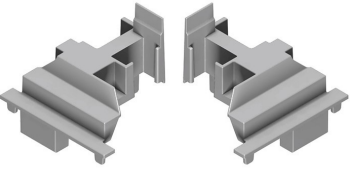
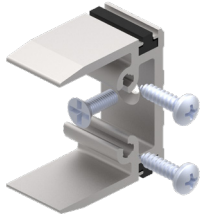


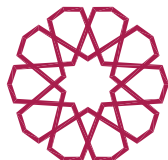
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 30 1700 1	Sigma Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL	 34 2460 1	Luna Finger Catch Material: Aluminium Finish: Anodized, RAL
 30 1750 1	Gama Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL	 34 2470 1	Swift Finger Catch Material: Aluminium Finish: Anodized, RAL
 30 1790 0	Delta Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL	 34 2480 1	Flamengo Finger Catch Material: Aluminium Finish: Anodized, RAL
 30 1875 1	Gama Curved Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL	 35 1100 0	Flexi Outward Opener Material: Aluminium Finish:Raw, Anodized, RAL
 30 2740 0	Aton Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL	 36 1220 0	Door Handle Material: Aluminium Finish:Raw, Anodized, RAL

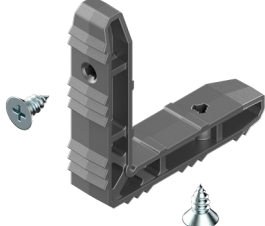
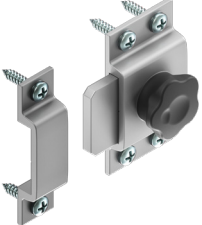
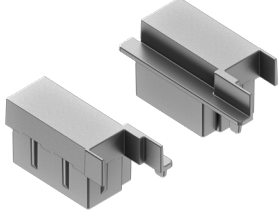


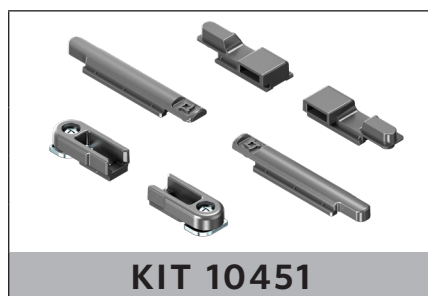
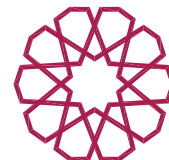
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 50 1150 0	Additional Locking Point Material: Polyamide Finish: Black	 50 3260 0	Striker Material: Zama Finish: Galvanized
 50 1160 1	Additional Locking Point Material: Zama Finish: Galvanized	 50 3610 0	Striker Material: Polyamide Finish: Black
 50 1180 1	Additional Locking Point Material: Zama Finish: Galvanized	 50 8800 0	Connecting Kit Material: Aluminium Finish: Raw
 50 2210 0	Locking Point Material: Polyamide Finish: Black	 52 1450 0	Flush Bolt Material: Polyamide Finish: Black
 50 2220 0	Locking Point Material: Zama Finish: Galvanized	 52 1480 0	Flush Bolt Material: Polyamide Finish: Black



 52 1540 0	Flush Bolt Material: Aluminium Finish: RAL	 62 1480 0	Central Plug Material: Polyamide Finish: Black
 52 1545 0	Lever Bolt Material: Zama Finish: RAL	 62 1490 0	Central Plug Material: Polyamide Finish: Black
 54 1060 0	Lock Striker Material: Polyamide Finish: Black	 62 1610 0	Central Plug Material: Polyamide Finish: Black
 54 1140 0	Lock Striker Material: Polyamide Finish: Black	 66 1220 0	Base Plate Material: Aluminium Finish: Raw
 60 0500 0	Clip Material: Polyamide Finish: Black	 66 1650 0	Base Plate Material: Aluminium Finish: Raw
 62 1460 0	Central Plug Material: Polyamide Finish: Black	 66 4560 0	Share Block Material: Aluminium Finish: Raw



 72 1012 0	Flyscreen Corner Angle Material: Polyamide Finish: Black	 72 1551 0	Flyscreen Handle Material: Aluminium Finish:Raw, Anodized, RAL
 72 1014 0	Flyscreen Corner Angle Material: Polyamide Finish: Black	 72 1556 0	Flyscreen Handle Material: Aluminium Finish:Raw, Anodized, RAL
 72 1406 0	Flyscreen Finger Catch Material: Aluminium Finish:Raw, Anodized, RAL	 72 1610 0	Flyscreen Locking Point Material: Polyamide Finish: Black
 72 1501 0	Flyscreen Handle Material: Aluminium Finish:Raw, Anodized, RAL	 72 1611 0	Flyscreen Locking Point Material: Polyamide Finish: Black
 72 1511 0	Flyscreen Handle Material: Polyamide Finish: Black	 72 1720 0	Flyscreen Striker Material: Aluminium Finish:Raw, Anodized, RAL
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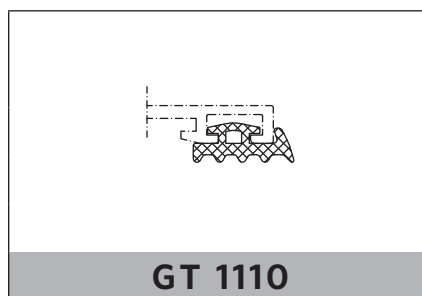


Locking Point Kit

Material:
Polyamide

Finish: Black

KIT 10451

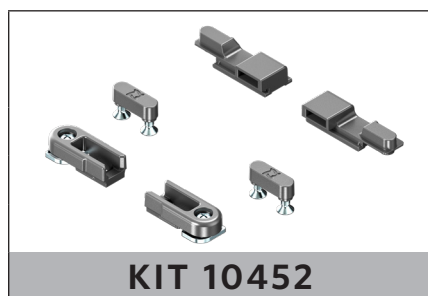


Glazing Gasket 1.5:2.5 mm.

Material:
E.P.D.M

Finish: Black

GT 1110

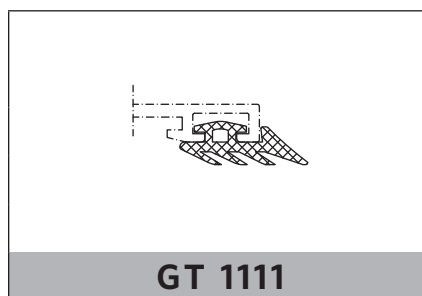


Locking Point Kit

Material:
Polyamide

Finish: Black

KIT 10452



Glazing Gasket 2:4 mm.

Material:
E.P.D.M

Finish: Black

GT 1111

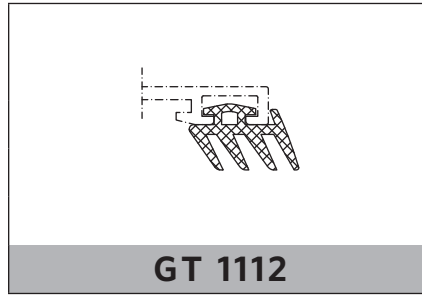


Locking Point Kit

Material:
Polyamide

Finish: Black

KIT 10453



Glazing Gasket 4:6 mm.

Material:
E.P.D.M

Finish: Black

GT 1112

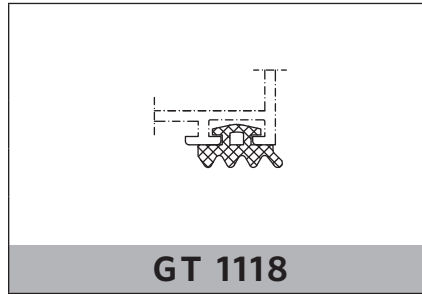


Locking Point Kit

Material:
Polyamide

Finish: Black

KIT 10454

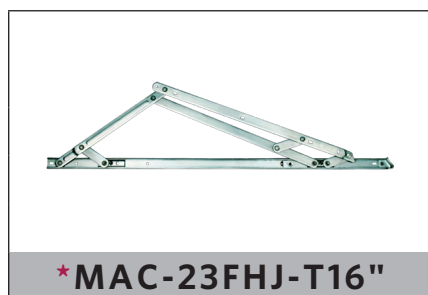


Glazing Gasket 2:3 mm.

Material:
E.P.D.M

Finish: Black

GT 1118

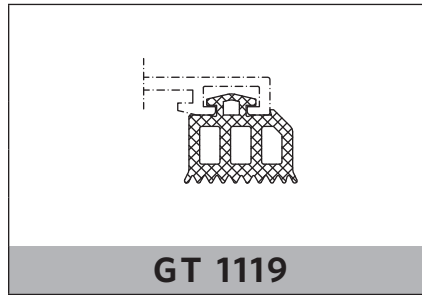


Top-Hung Window Arm

Material:
Stainless Steel

Finish:
Natural

***MAC-23FHJ-T16''**

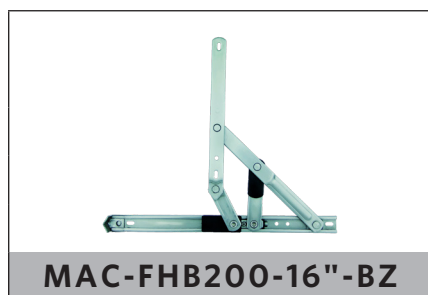


Glazing Gasket 6:9 mm.

Material:
E.P.D.M

Finish: Black

GT 1119

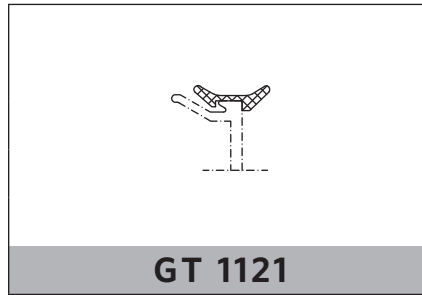


Top-Hung Window Arm

Material:
Stainless Steel

Finish:
Natural

MAC-FHB200-16''-BZ



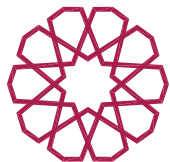
Glazing Gasket 1:2 mm.

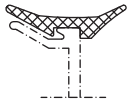
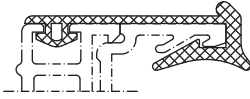
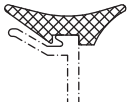
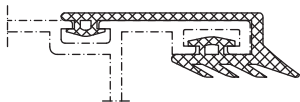
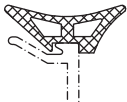
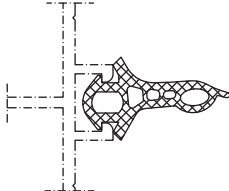
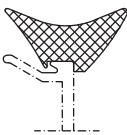
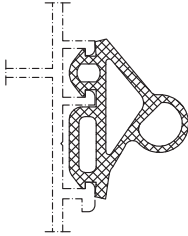
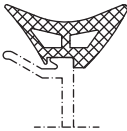
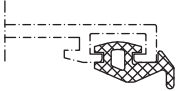
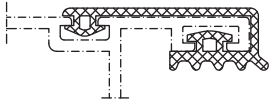
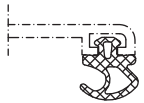
Material:
E.P.D.M

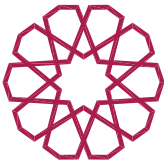
Finish: Black

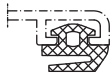
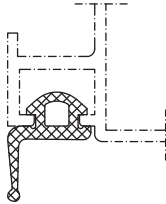
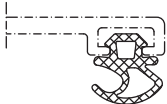
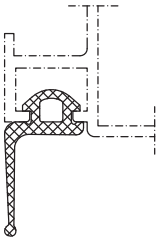
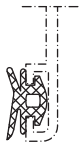
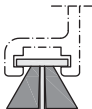
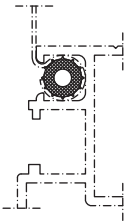
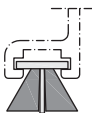
GT 1121

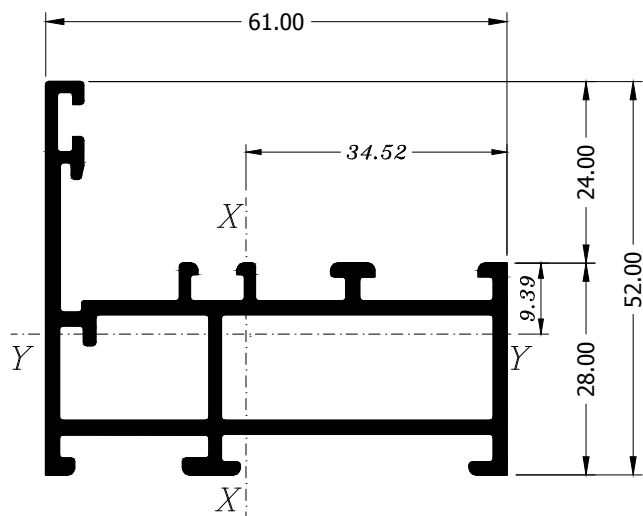
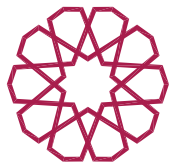
*Available in sizes: 18/20/22/24/26/28"



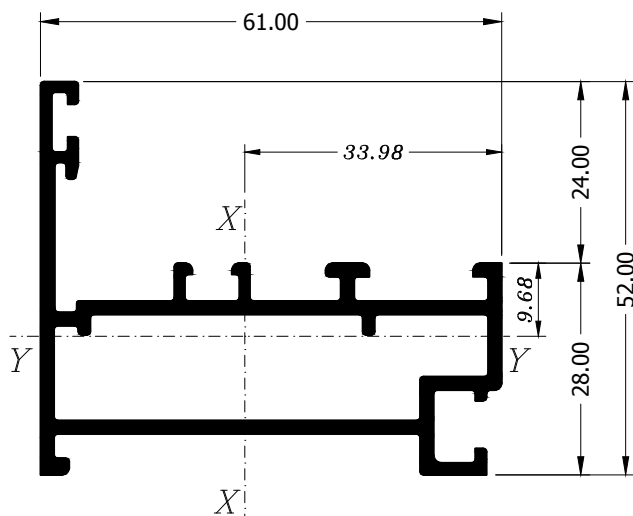
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 GT 1124	Glazing Gasket 4:5 mm. Material: E.P.D.M Finish: Black	 GT 1129	Glazing Gasket 2:3 mm. Material: E.P.D.M Finish: Black
 GT 1124-1	Glazing Gasket 4:5 mm. Material: E.P.D.M Finish: Black	 GT 1137	Central Gasket Material: E.P.D.M Finish: Black
 GT 1126	Glazing Gasket 6:7 mm. Material: E.P.D.M Finish: Black	 GT 1138	Central Gasket Material: E.P.D.M Finish: Black
 GT 1126-1	Glazing Gasket 6:7 mm. Material: E.P.D.M Finish: Black	 GT 1144	Striker Gasket Material: E.P.D.M Finish: Black
 GT 1127	Glazing Gasket 1.5:2.5 mm. Material: E.P.D.M Finish: Black	 GT 1146	Striker Gasket Material: E.P.D.M Finish: Black



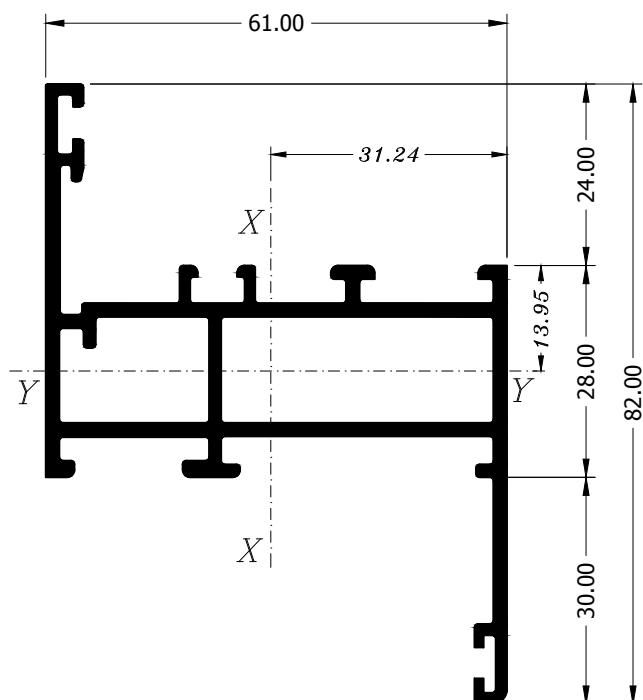
 GT 1148	Striker Gasket Material: E.P.D.M Finish: Black	 GT 1200	FlyScreen Gasket Material: E.P.D.M Finish: Black
 GT 1149	Striker Gasket Material: E.P.D.M Finish: Black	 GT 1201	FlyScreen Gasket Material: E.P.D.M Finish: Black
 GT 1152	Frame Gasket Material: E.P.D.M Finish: Black	 WS 0710	Weather Strip 70*10 Material: Finish: Black
 GT 1181	FlyScreen Gasket Material: E.P.D.M Finish: Black	 WS 0710 F	Weather Strip 70*10 Material: Finish: Black



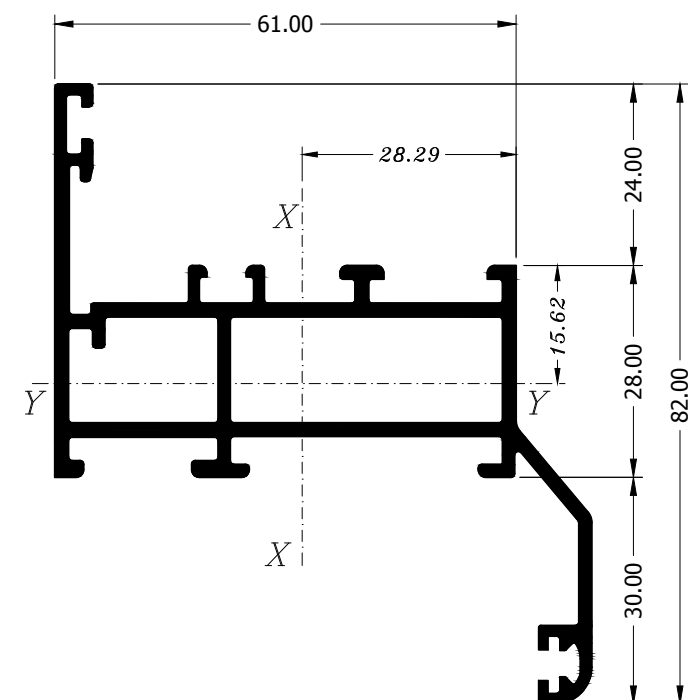
1 061 1100
1.103 Kg./ml.



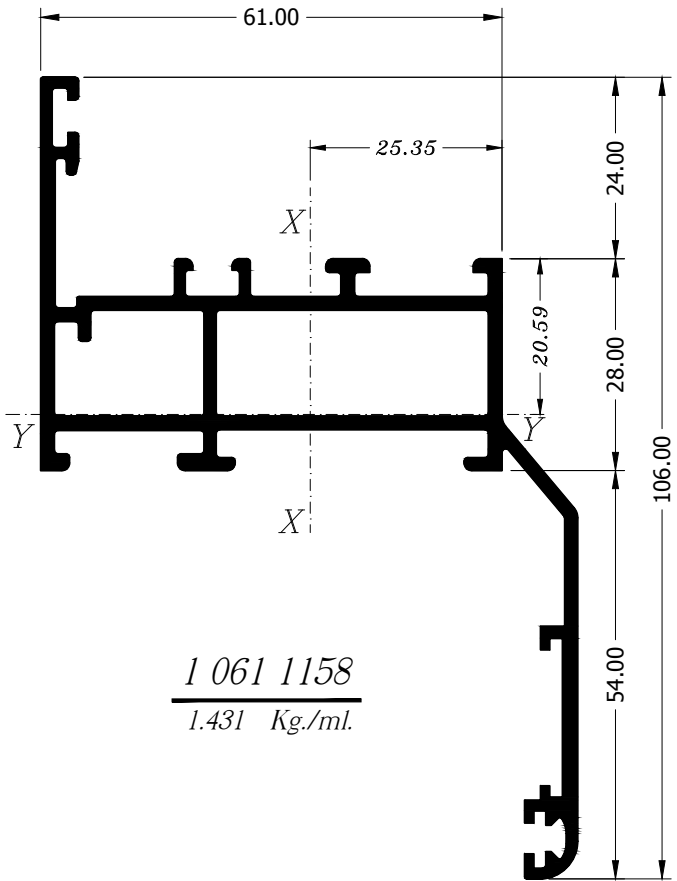
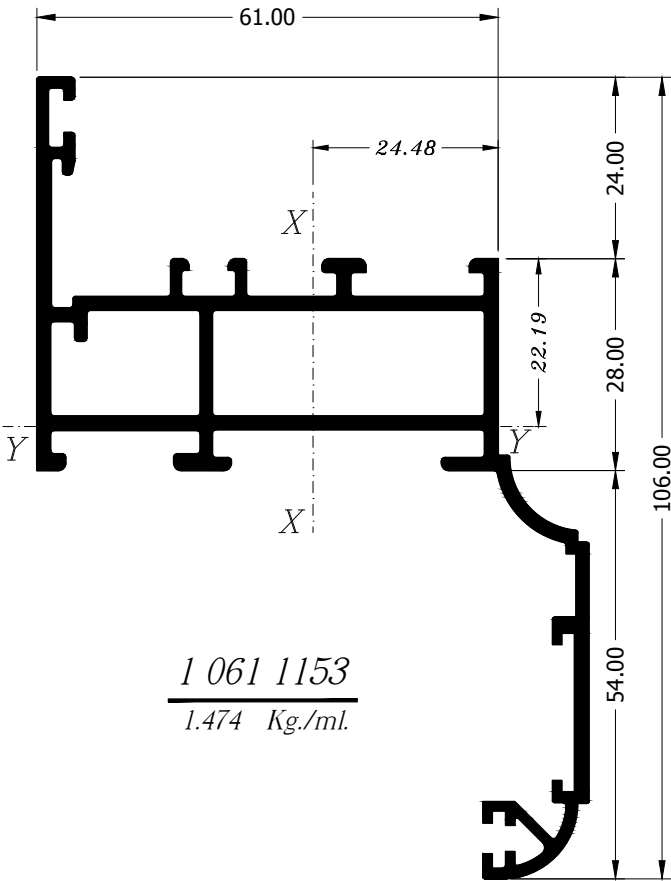
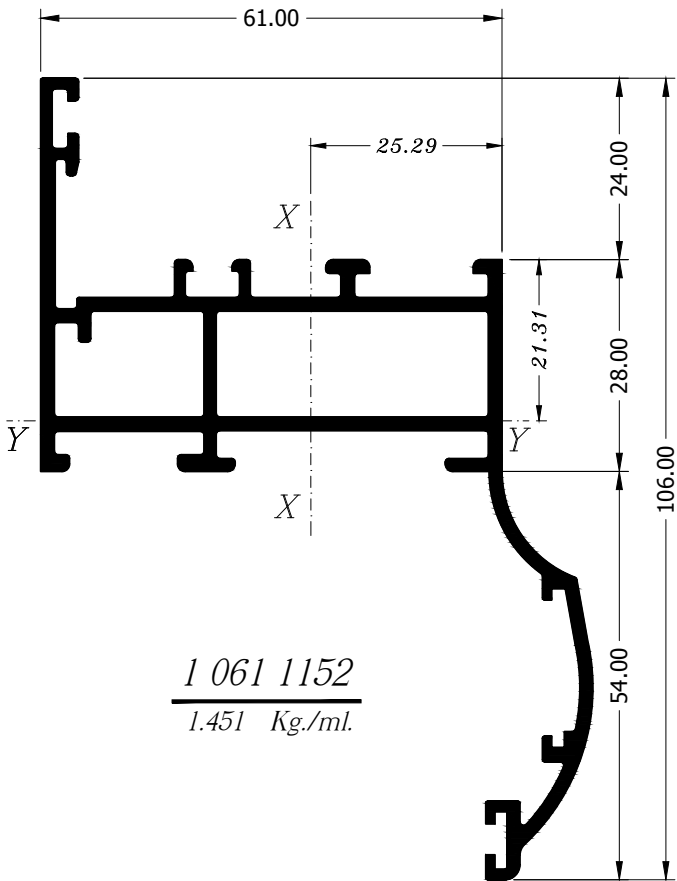
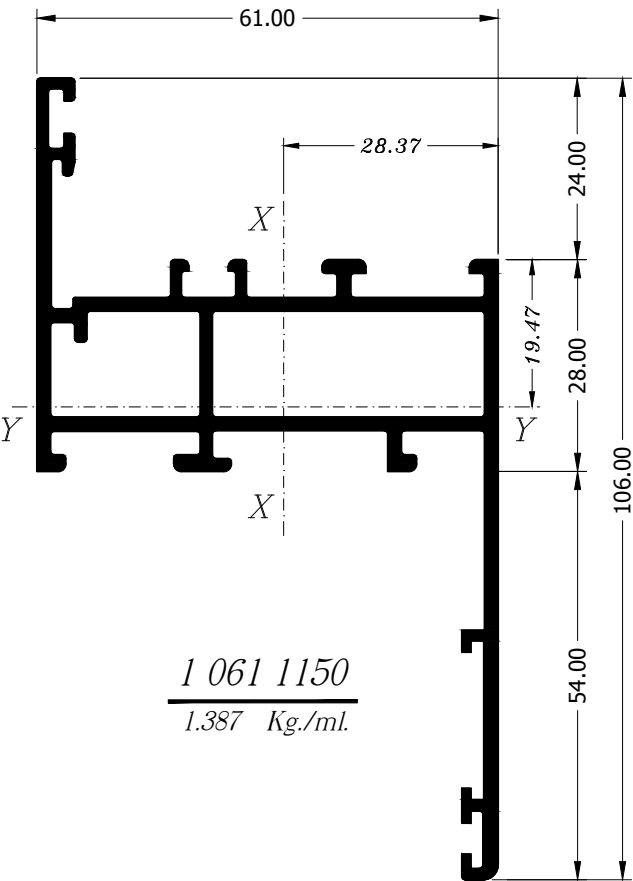
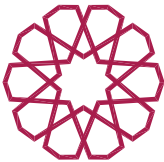
1 061 1110
1.031 Kg./ml.

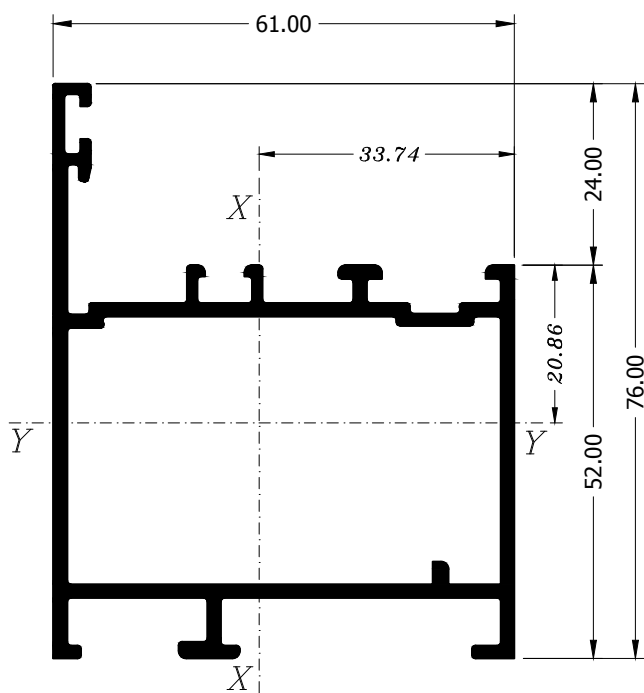
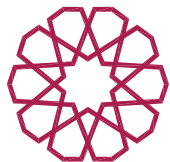


1 061 1130
1.245 Kg./ml.

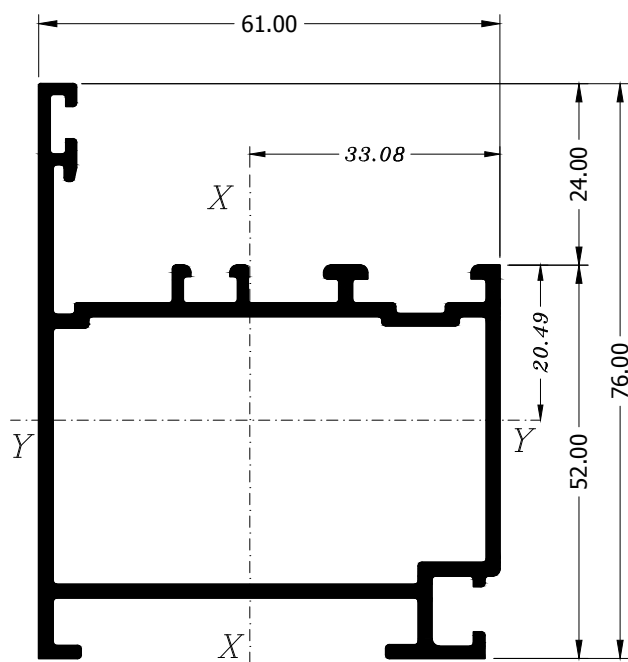


1 061 1138
1.315 Kg./ml.

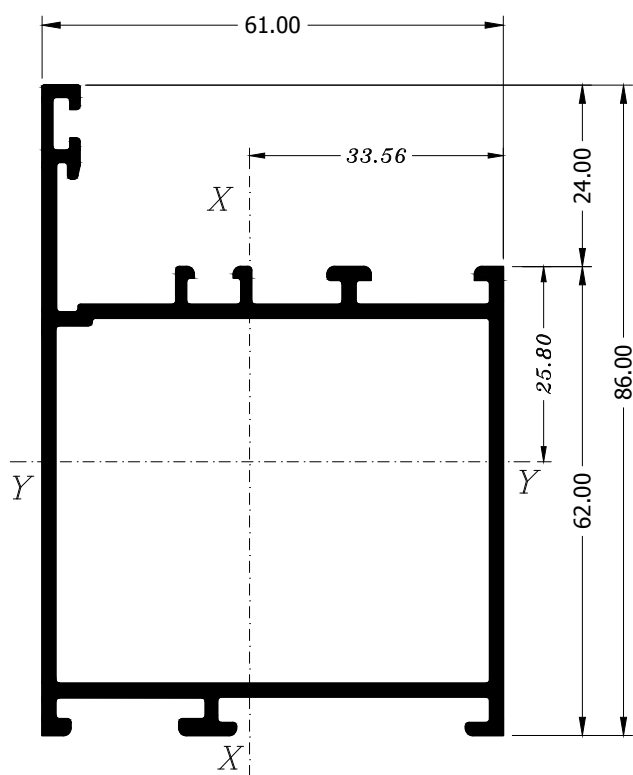




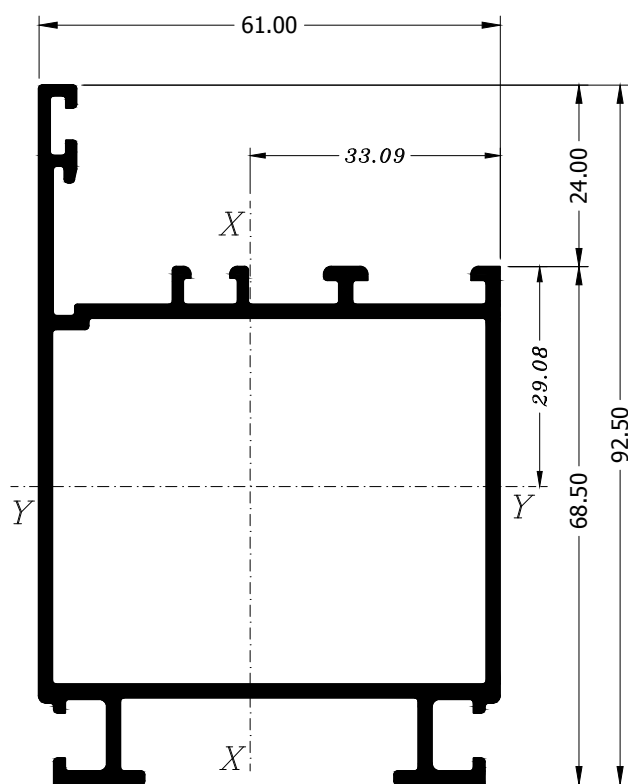
1 061 1200
1.291 Kg./ml.



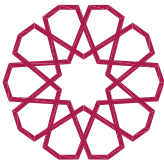
1 061 1210
1.270 Kg./ml.



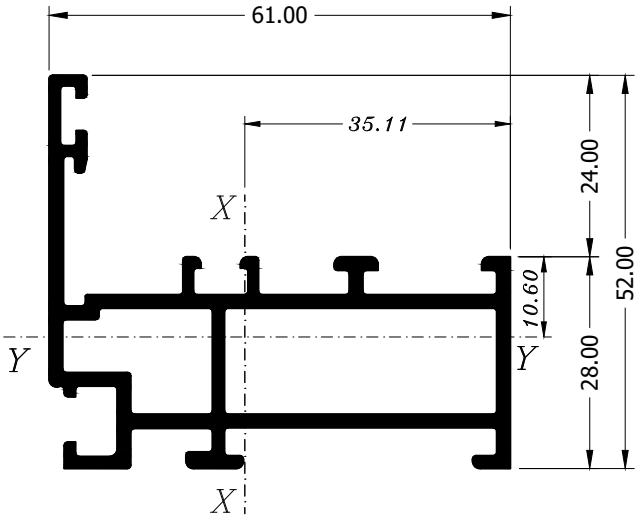
1 061 1300
1.342 Kg./ml.



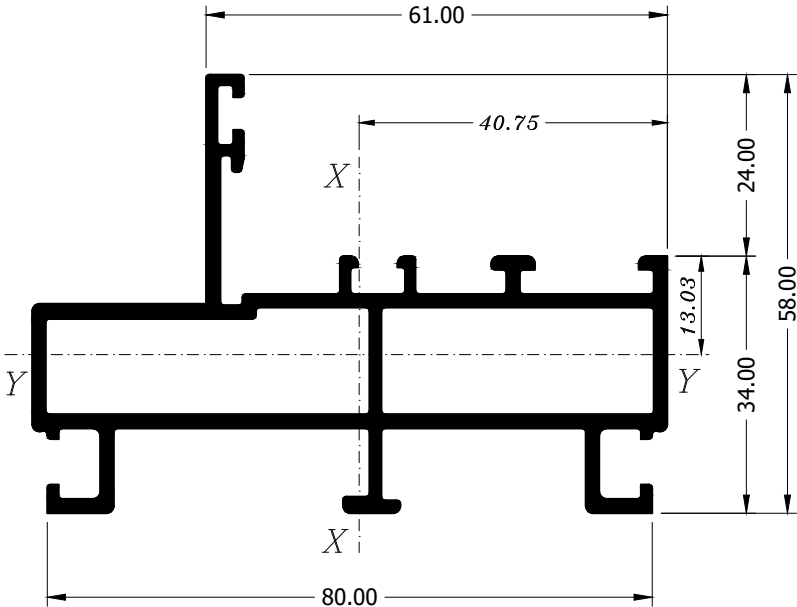
1 061 1320
1.459 Kg./ml.



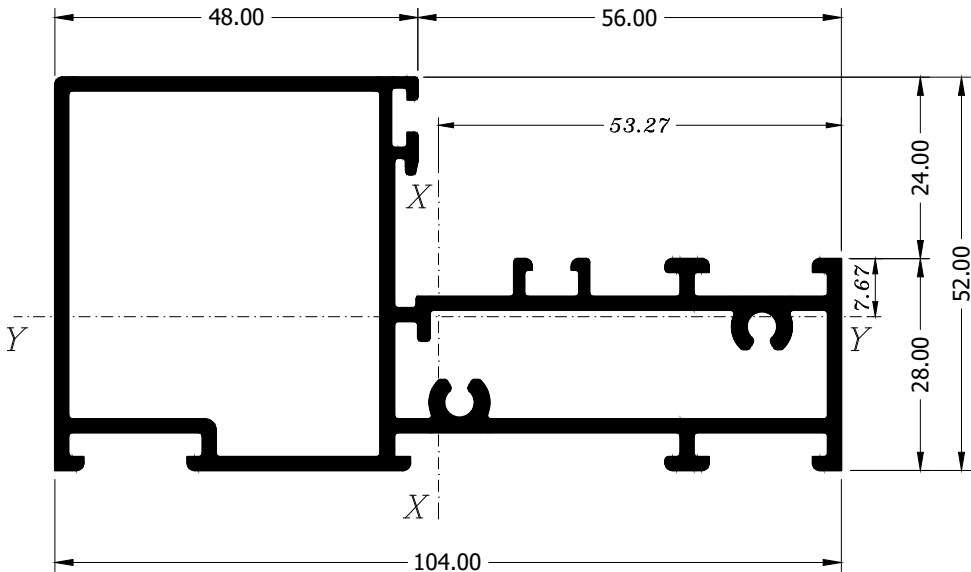
1 061 1810
 1.122 Kg./ml.

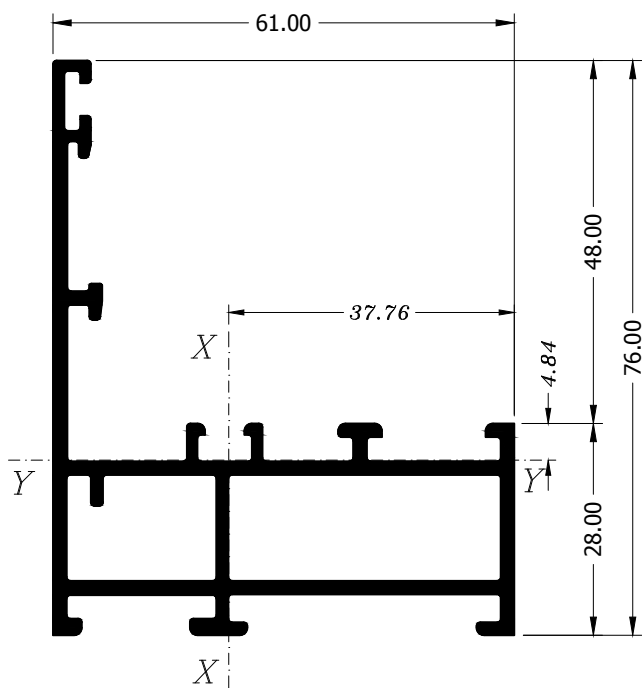
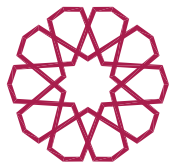


1 061 2082
 1.437 Kg./ml.

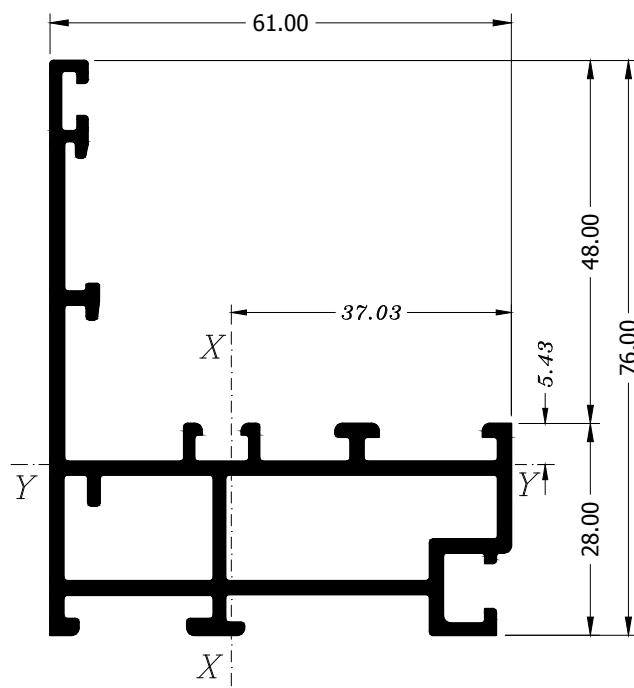


1 061 2103
 1.719 Kg./ml.

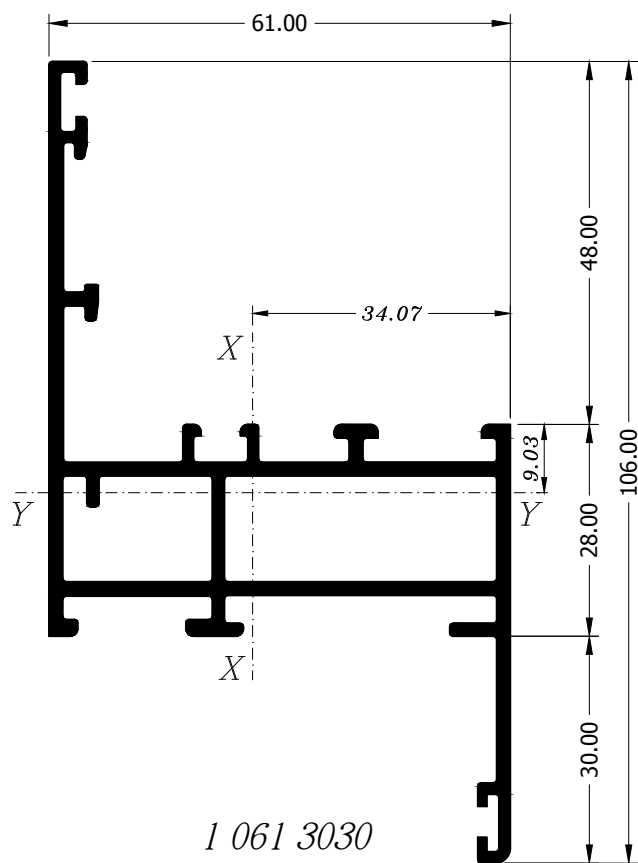




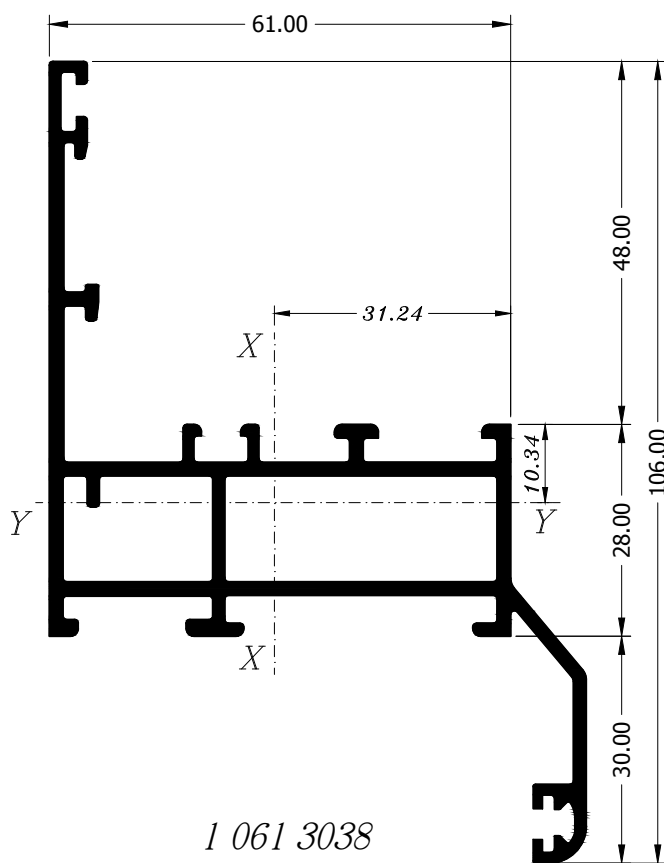
1 061 3000
1.248 Kg./ml.



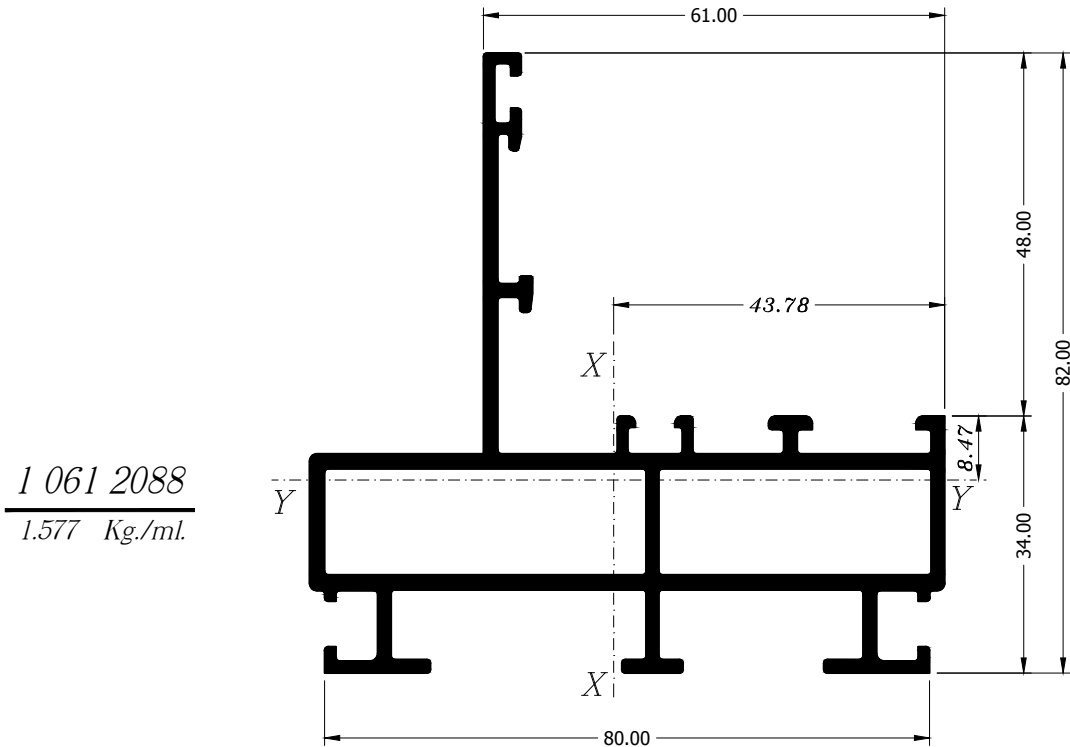
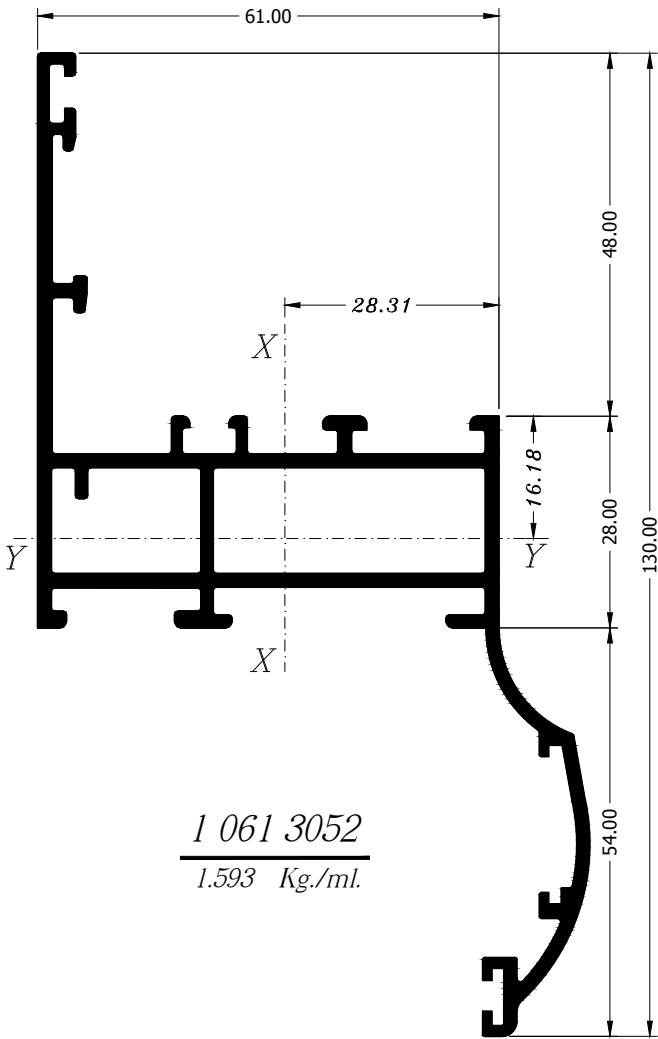
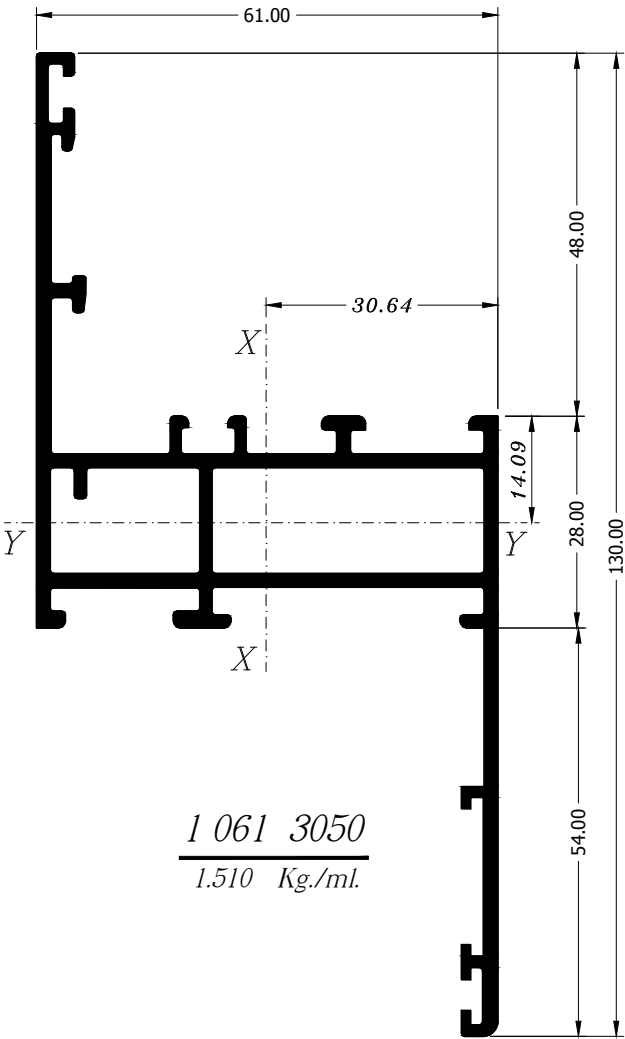
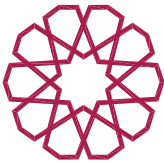
1 061 3010
1.290 Kg./ml.

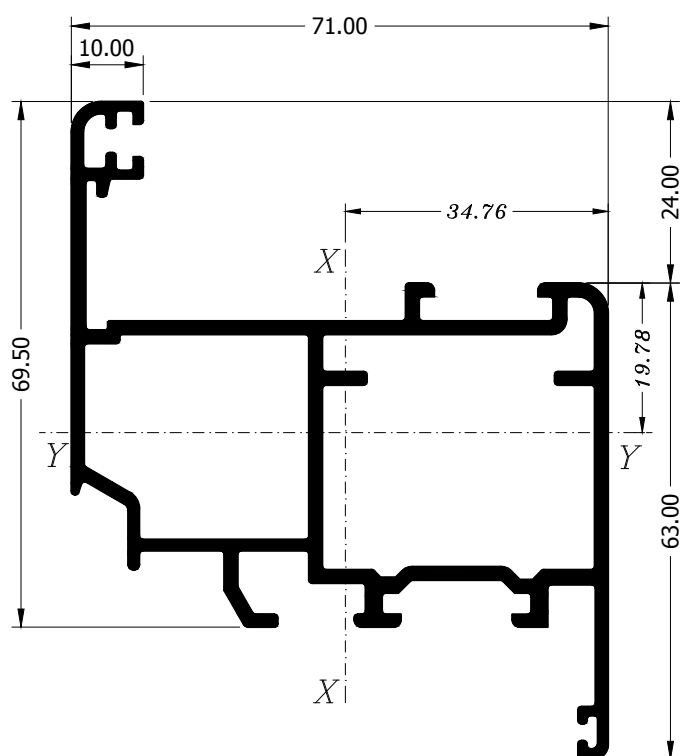
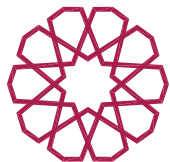


1 061 3030
1.403 Kg./ml.

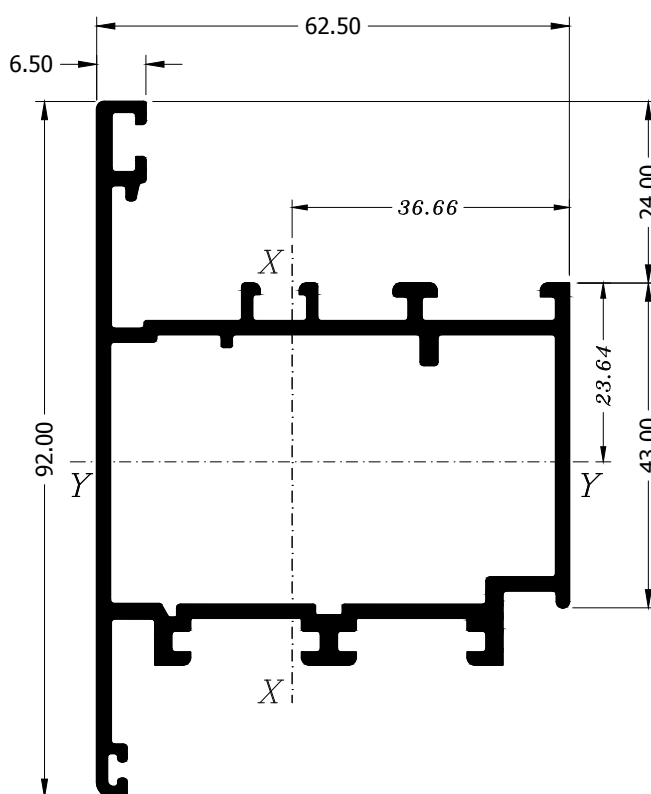


1 061 3038
1.458 Kg./ml.

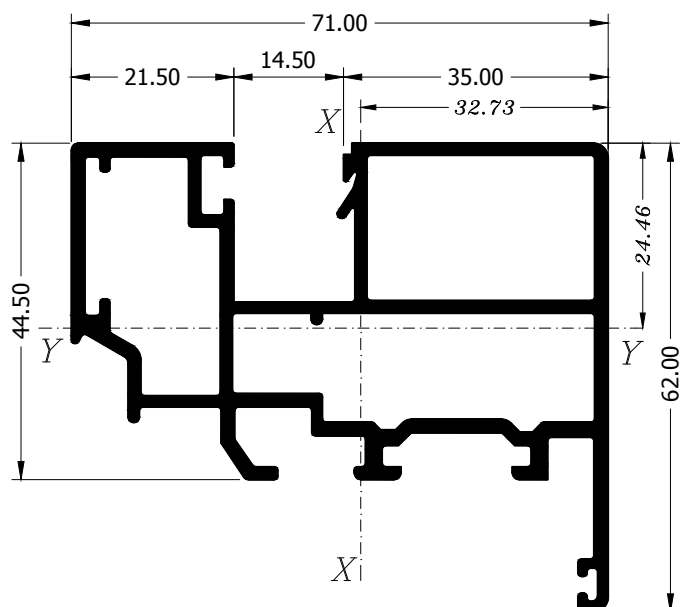




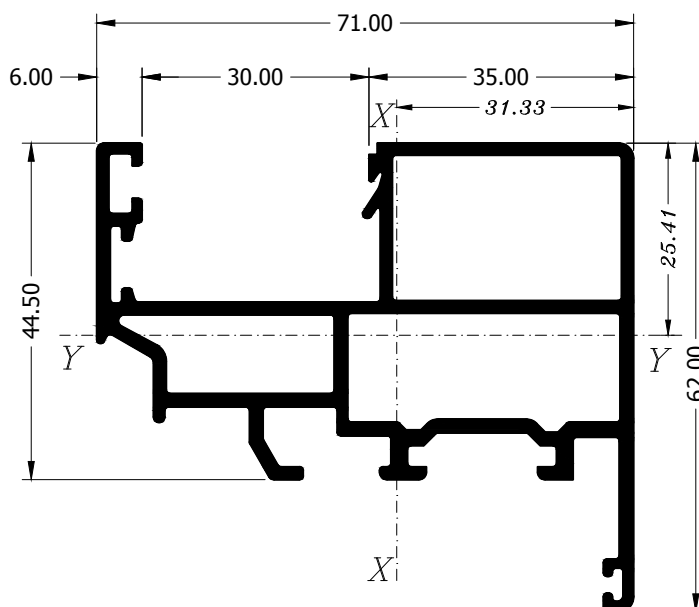
1 061 4122
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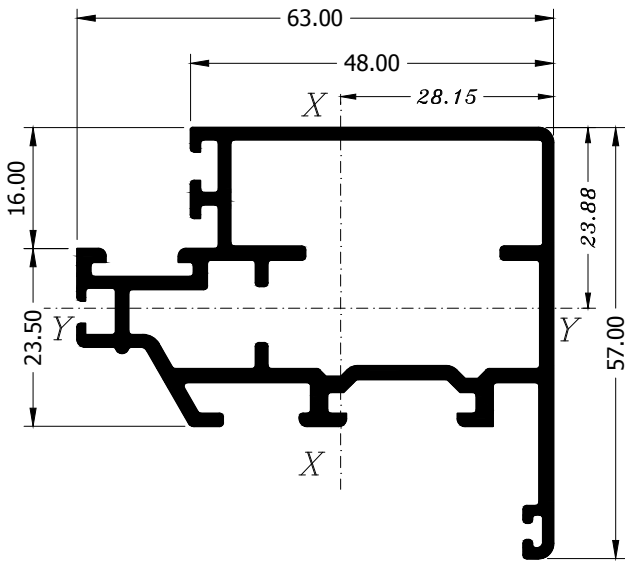
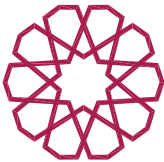
1 061 4220
1.454 Kg./ml.



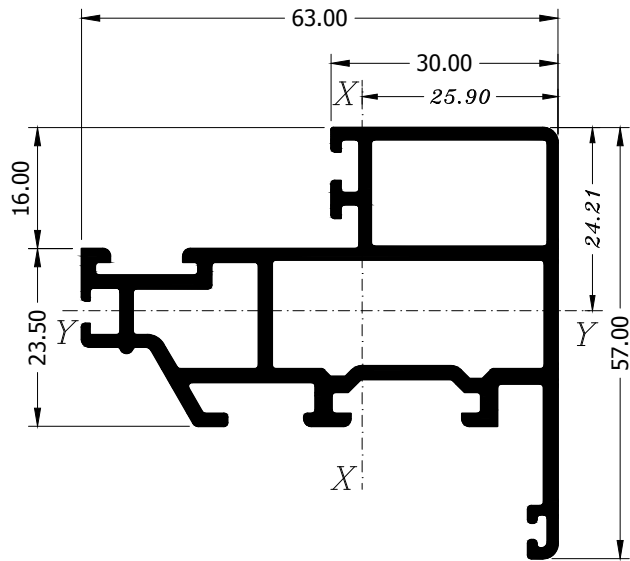
1 061 4140
1.549 Kg./ml.



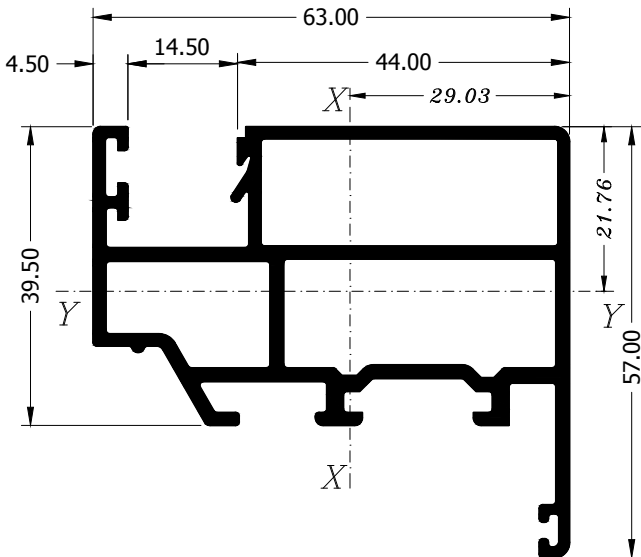
1 061 4150
1.474 Kg./ml.



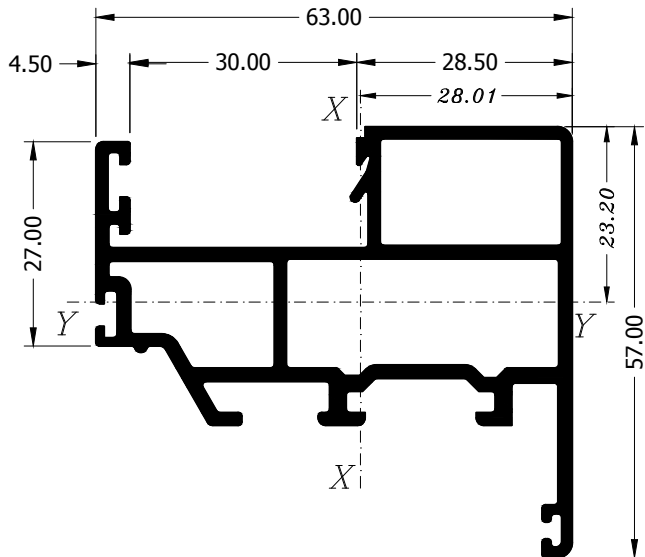
1 061 4410
 1.108 Kg./ml.



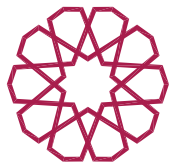
1 061 4430
 1.211 Kg./ml.



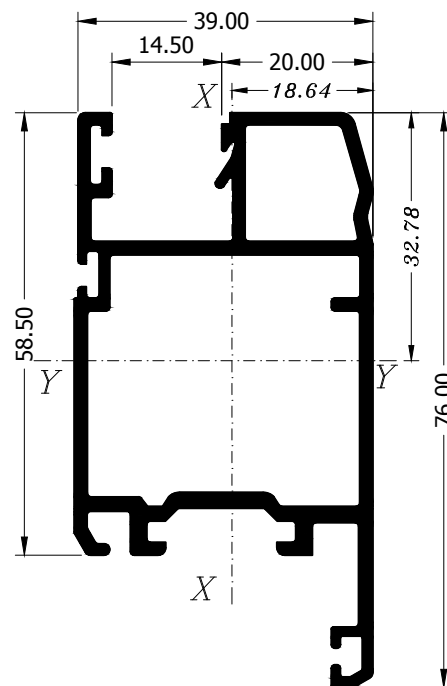
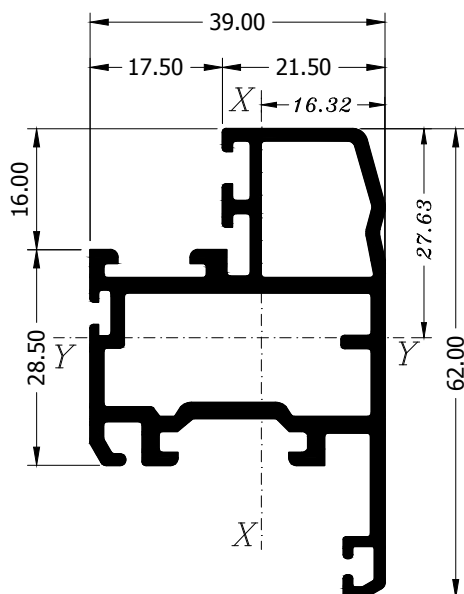
1 061 4460
 1.356 Kg./ml.



1 061 4480
 1.269 Kg./ml.

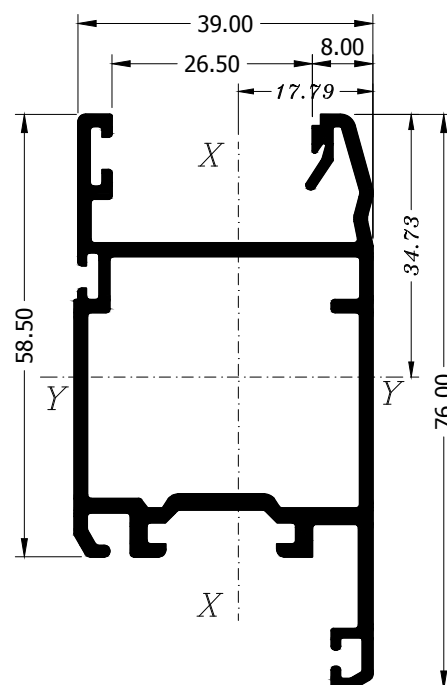
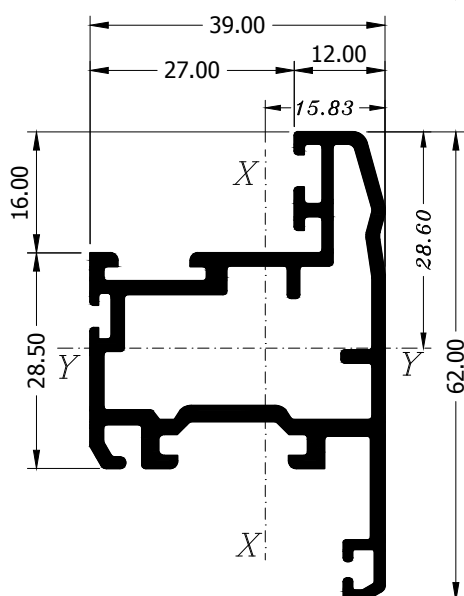


1 061 4517
1.013 Kg./ml.



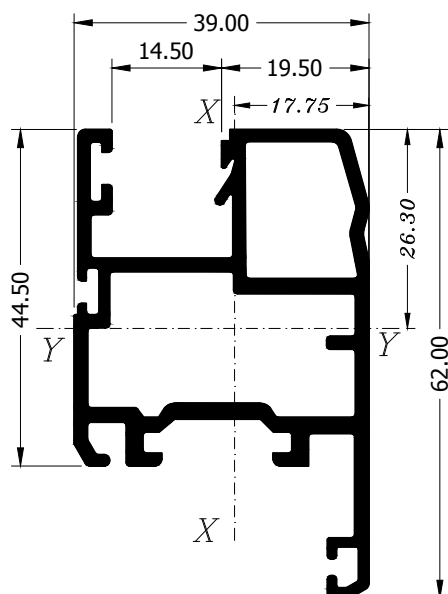
1 061 4587
1.154 Kg./ml.

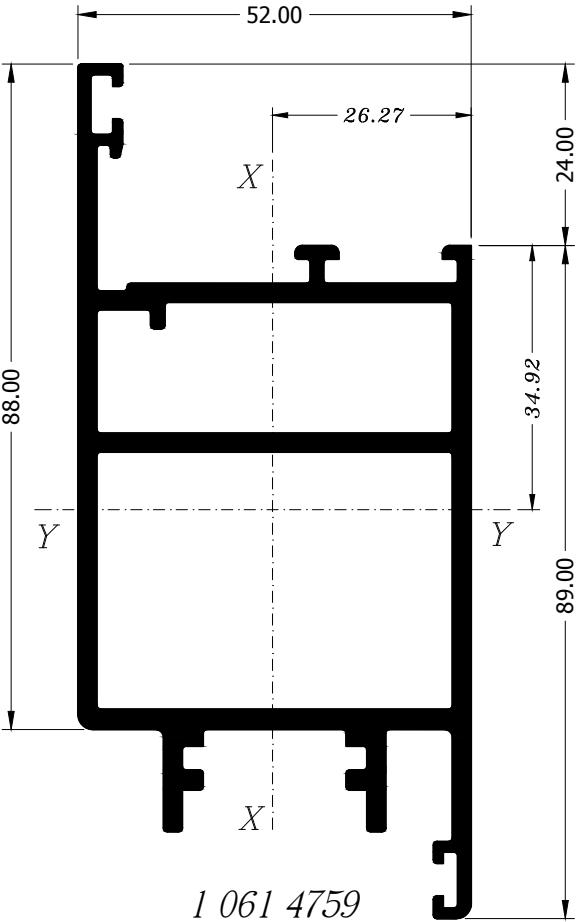
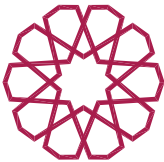
1 061 4527
0.952 Kg./ml.



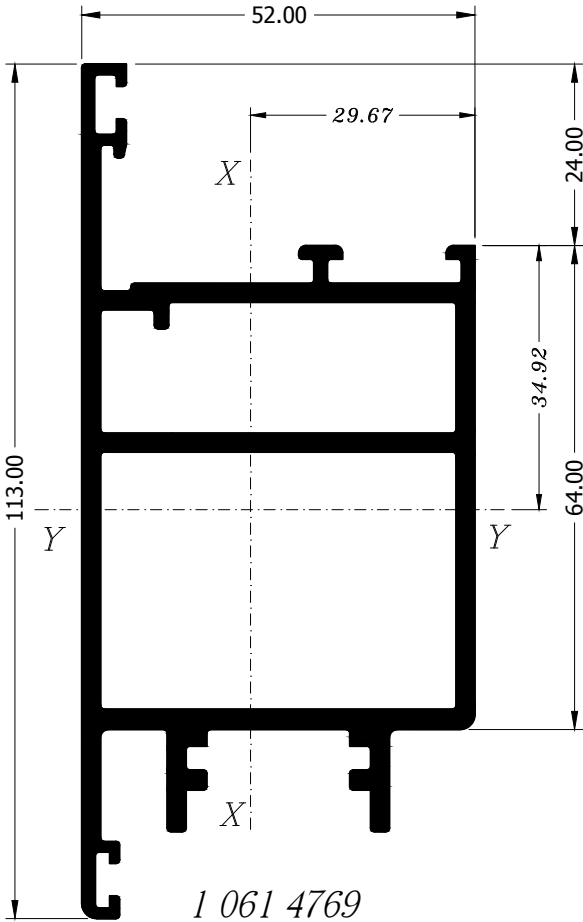
1 061 4597
1.071 Kg./ml.

1 061 4567
1.049 Kg./ml.

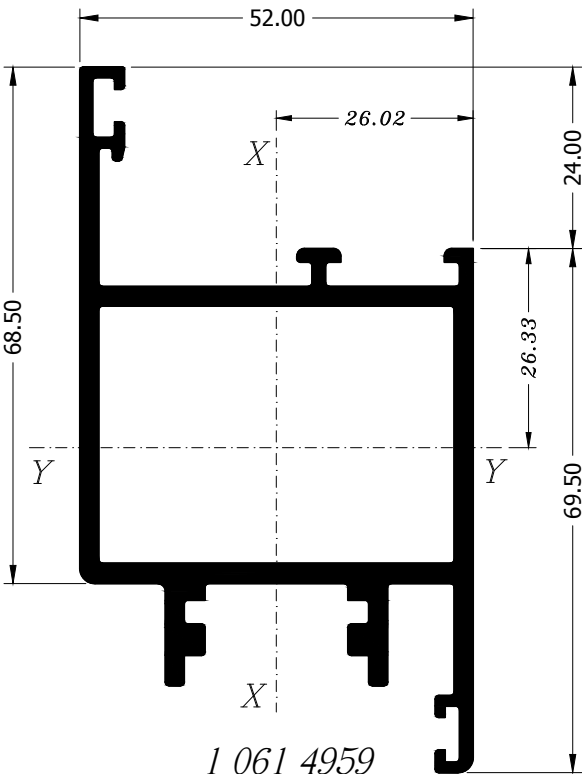




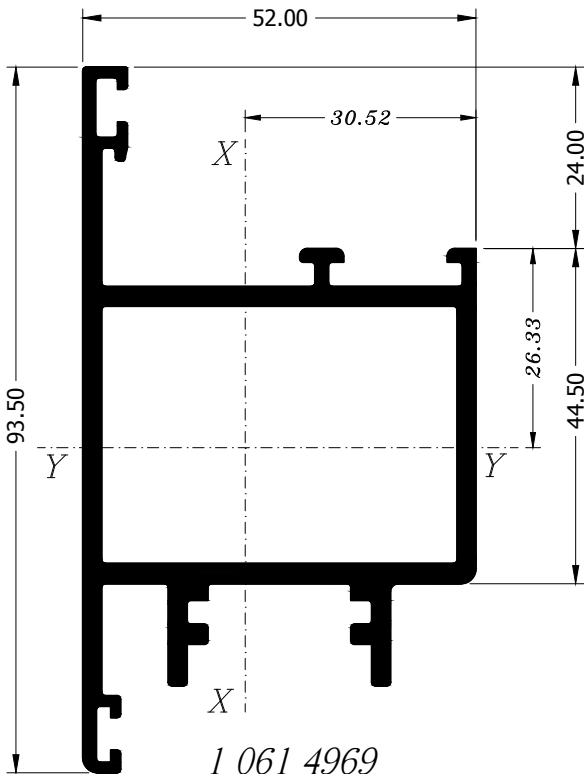
1 061 4759
 2.258 Kg./ml.



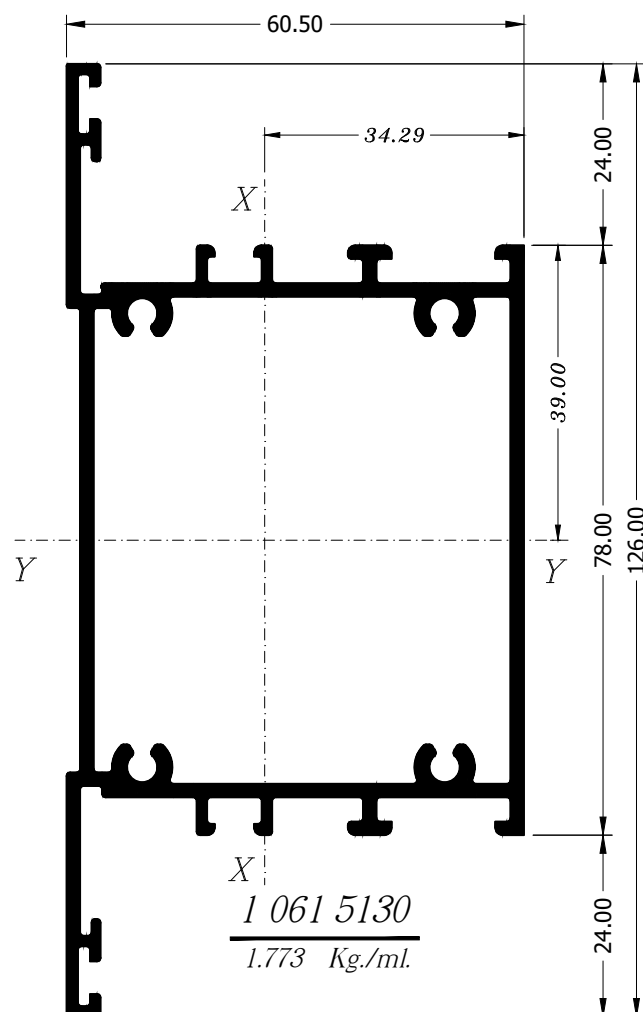
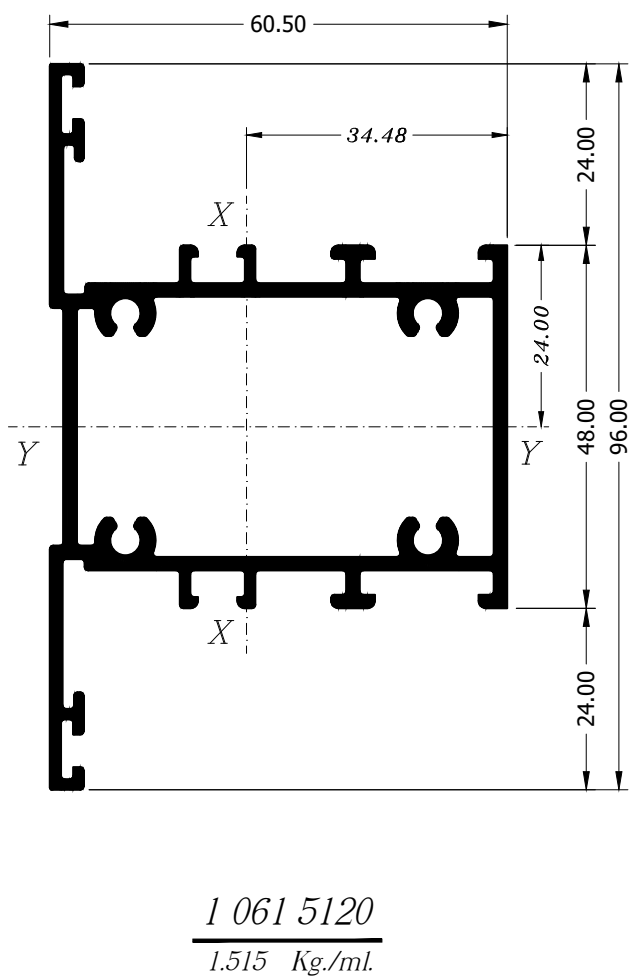
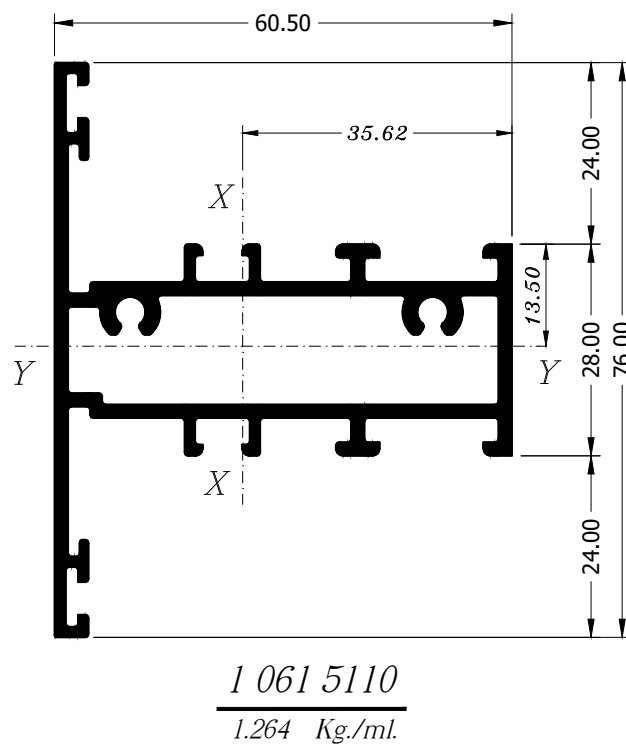
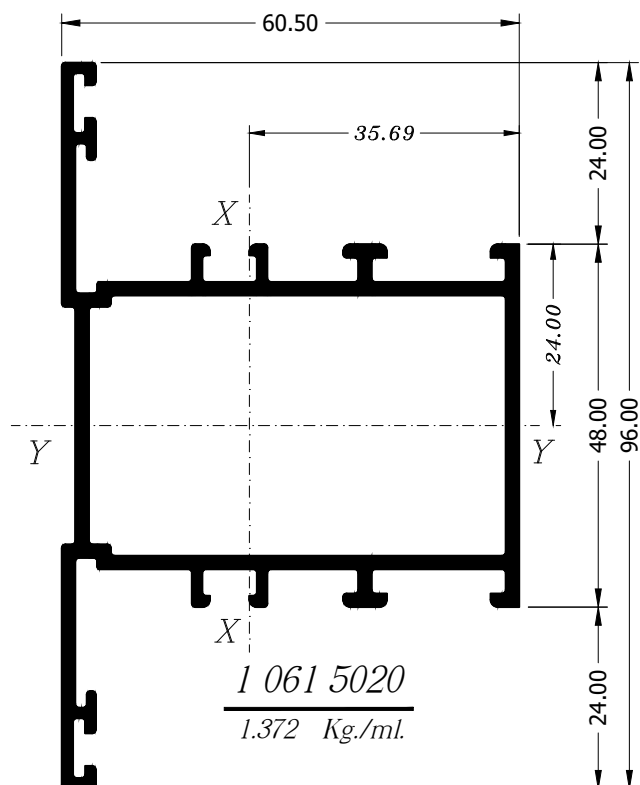
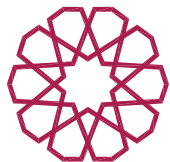
1 061 4769
 2.258 Kg./ml.

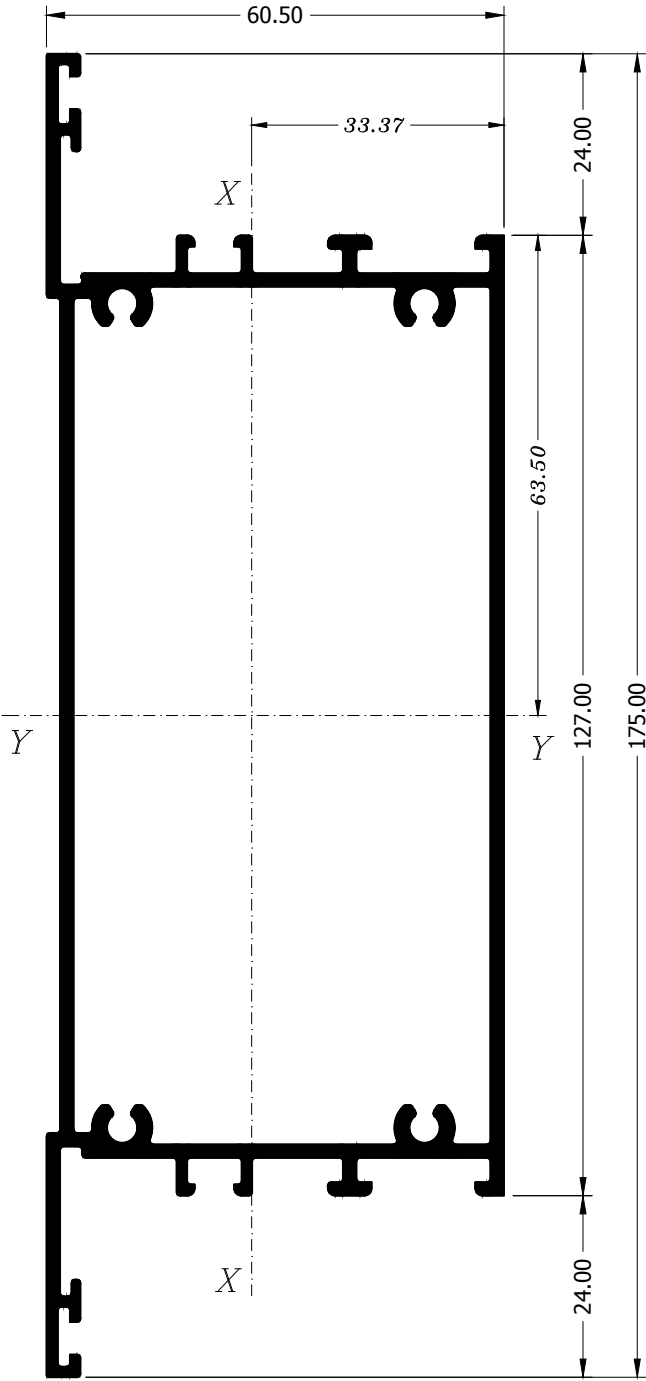
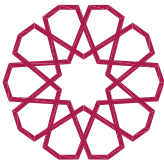


1 061 4959
 1.715 Kg./ml.

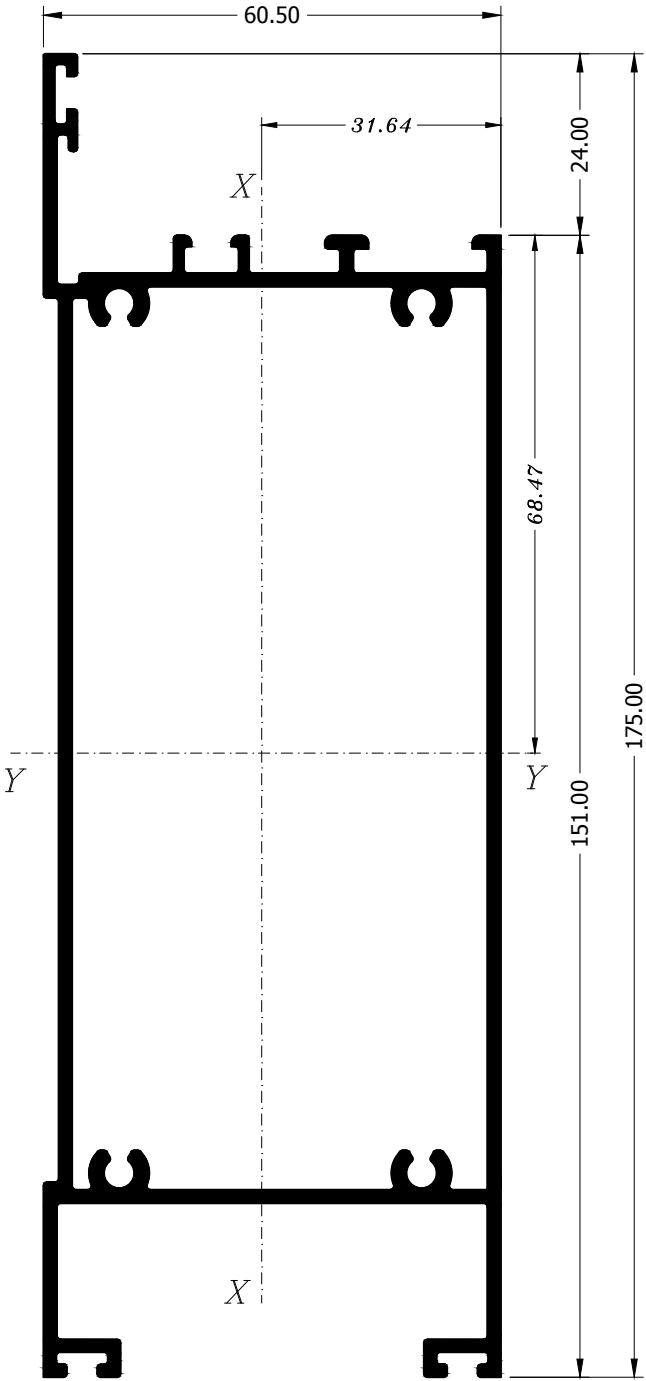


1 061 4969
 1.715 Kg./ml.

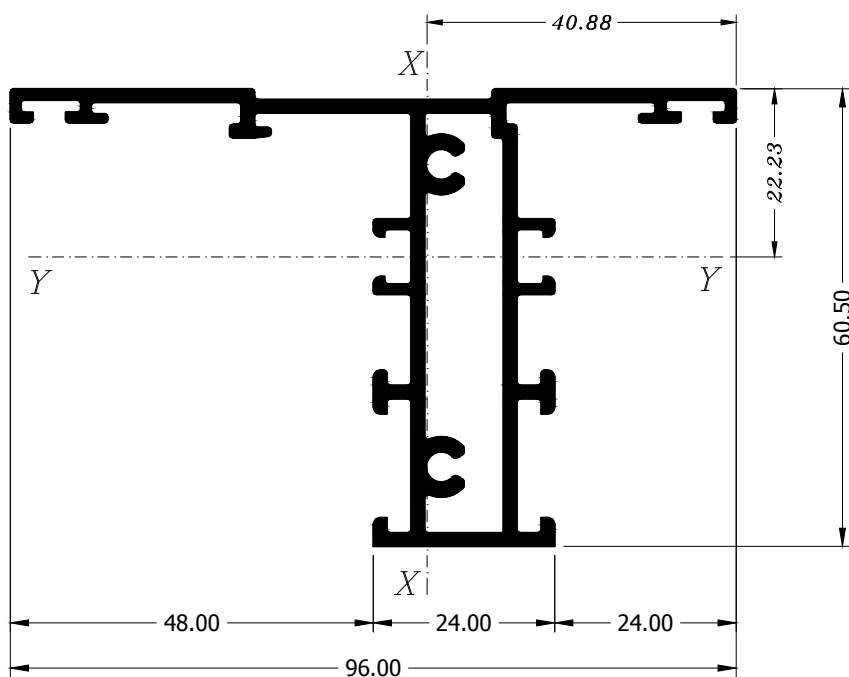
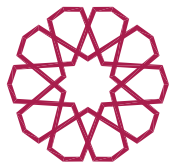




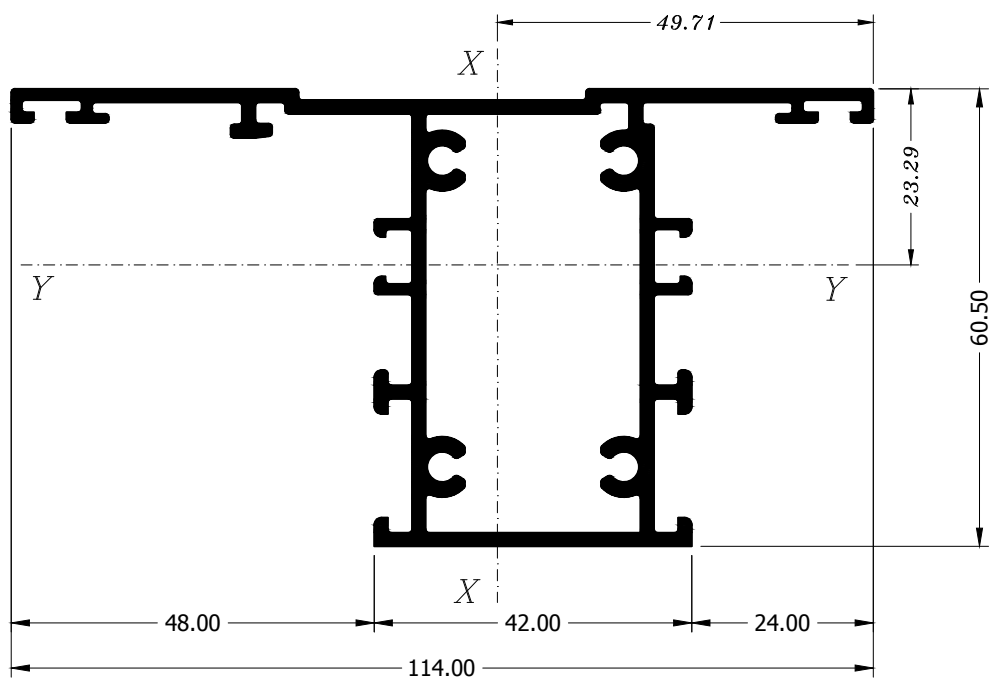
1 061 5140
2.204 Kg./ml.



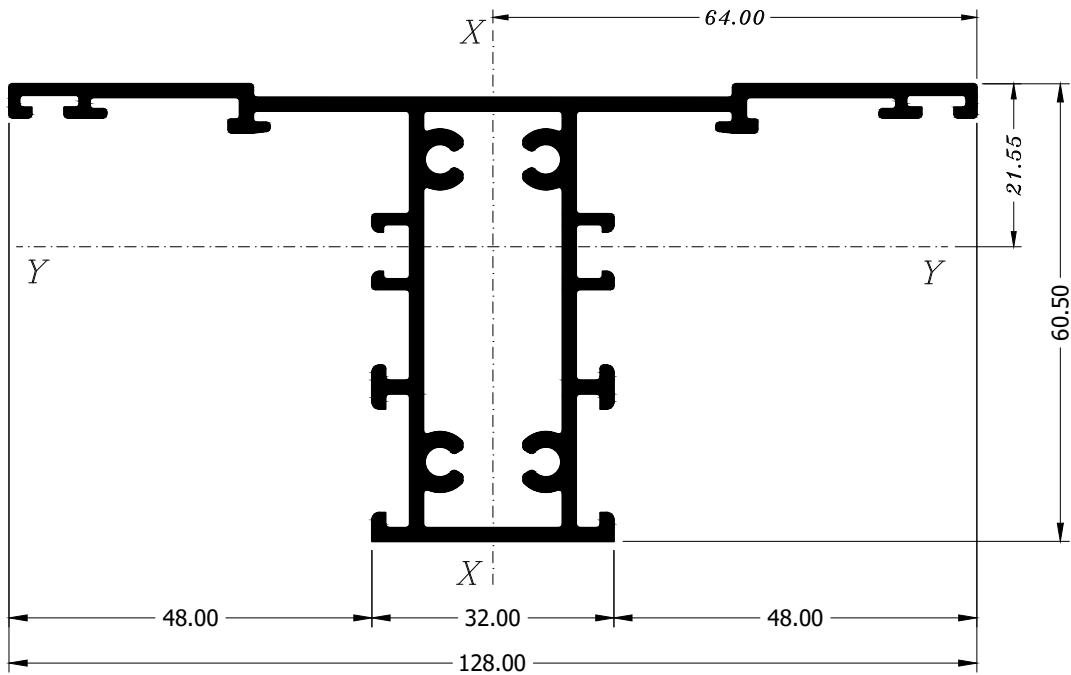
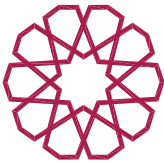
1 061 5340
2.295 Kg./ml.



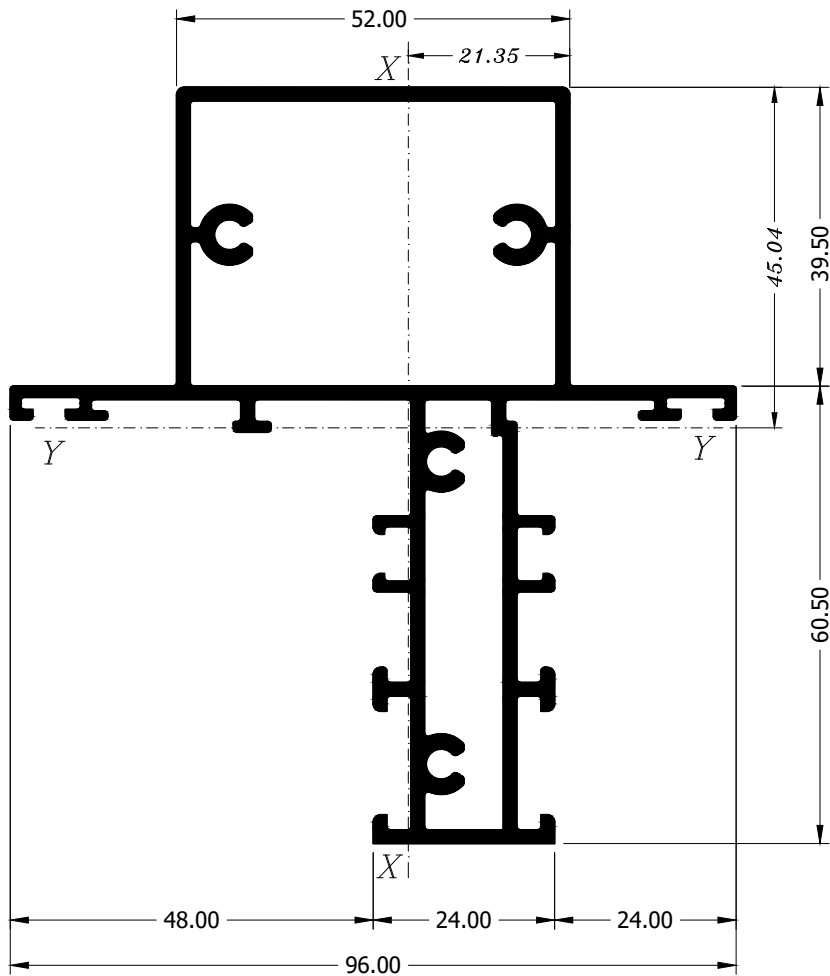
1 061 5710
1.353 Kg./ml.



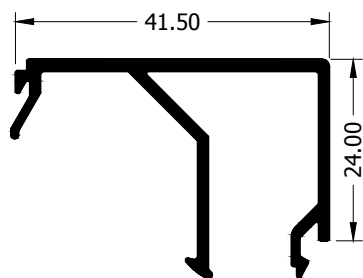
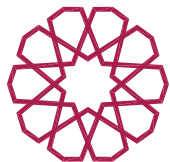
1 061 5720
1.600 Kg./ml.



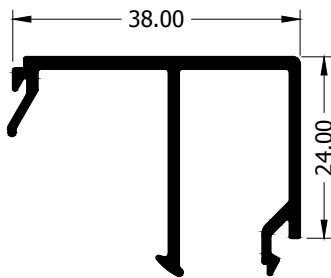
$$\frac{1\ 061\ 5760}{1.623\ Kg./ml.}$$



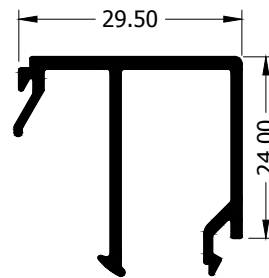
$$\frac{1\ 061\ 5910}{2.025\ Kg./ml.}$$



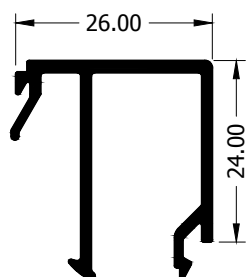
1 061 6140
0.402 Kg./ml.



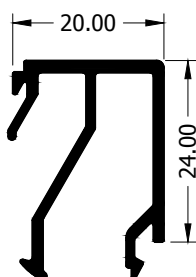
1 061 6160
0.370 Kg./ml.



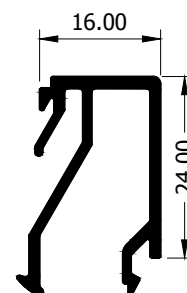
1 061 6170
0.337 Kg./ml.



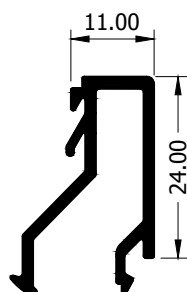
1 061 6180
0.324 Kg./ml.



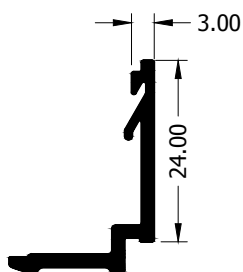
1 061 6190
0.311 Kg./ml.



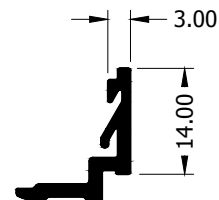
1 061 6192
0.296 Kg./ml.



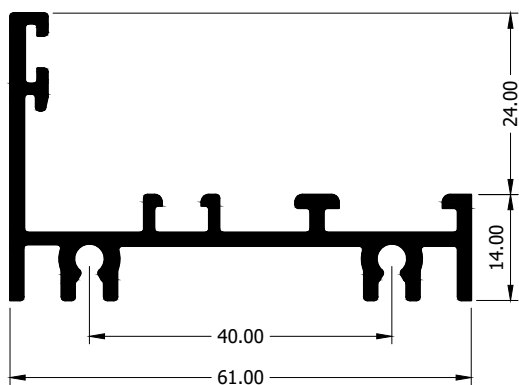
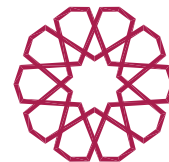
1 061 6193
0.268 Kg./ml.



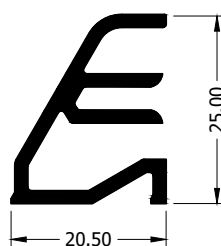
1 061 6195
0.211 Kg./ml.



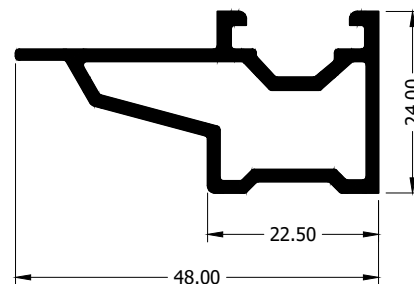
1 061 6500
0.142 Kg./ml.



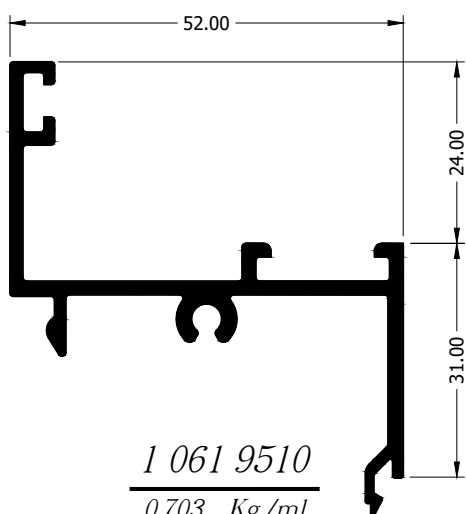
1 061 9110
0.769 Kg./ml.



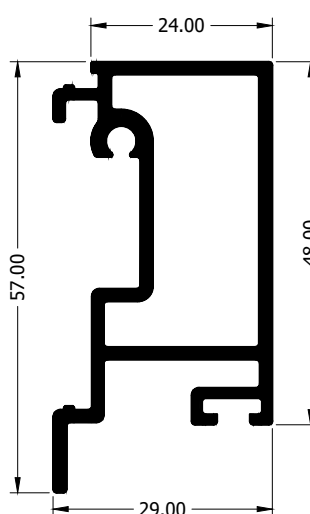
1 061 9120
0.329 Kg./ml.



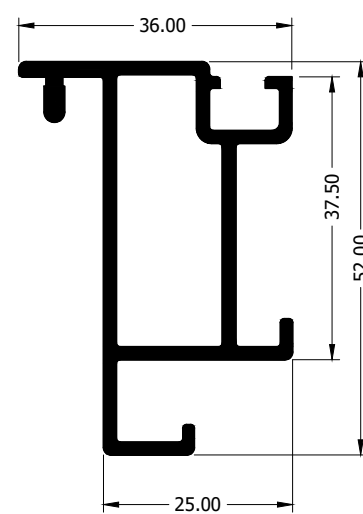
1 061 9410
0.518 Kg./ml.



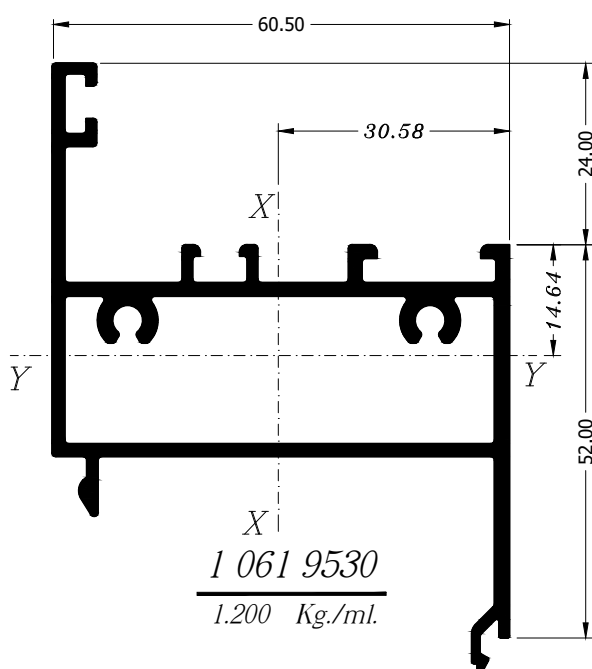
1 061 9510
0.703 Kg./ml.



1 061 9211
0.773 Kg./ml.

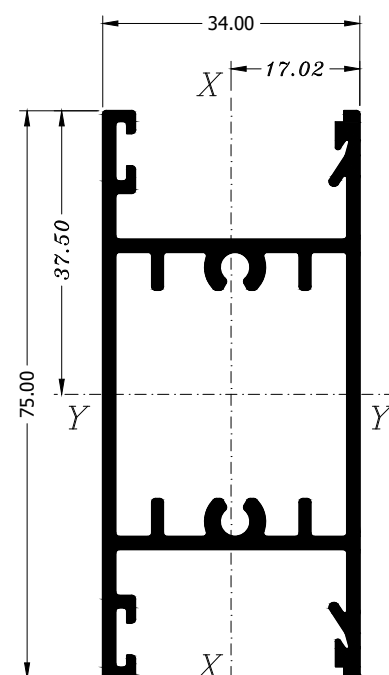


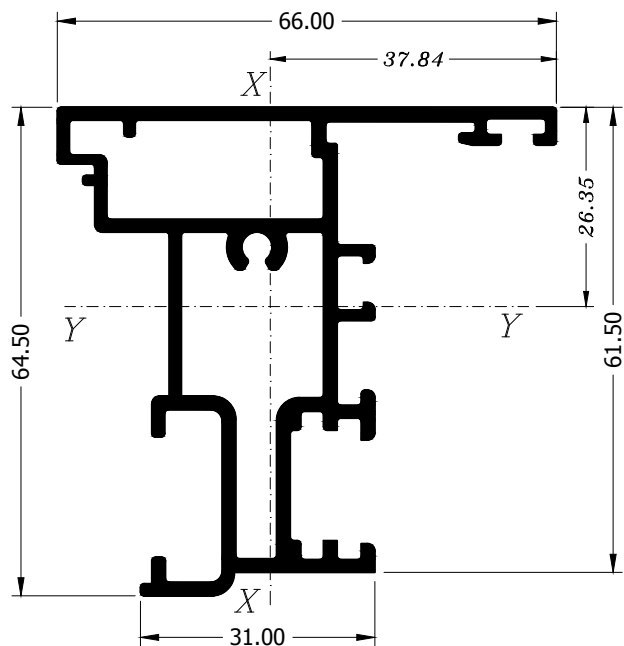
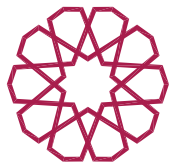
1 061 9253
0.751 Kg./ml.



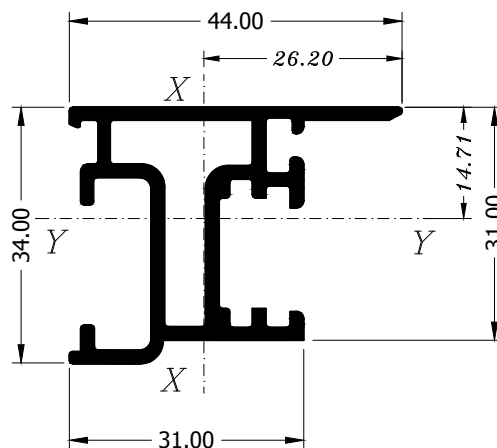
1 061 9530
1.200 Kg./ml.

1 061 9352
1.112 Kg./ml.

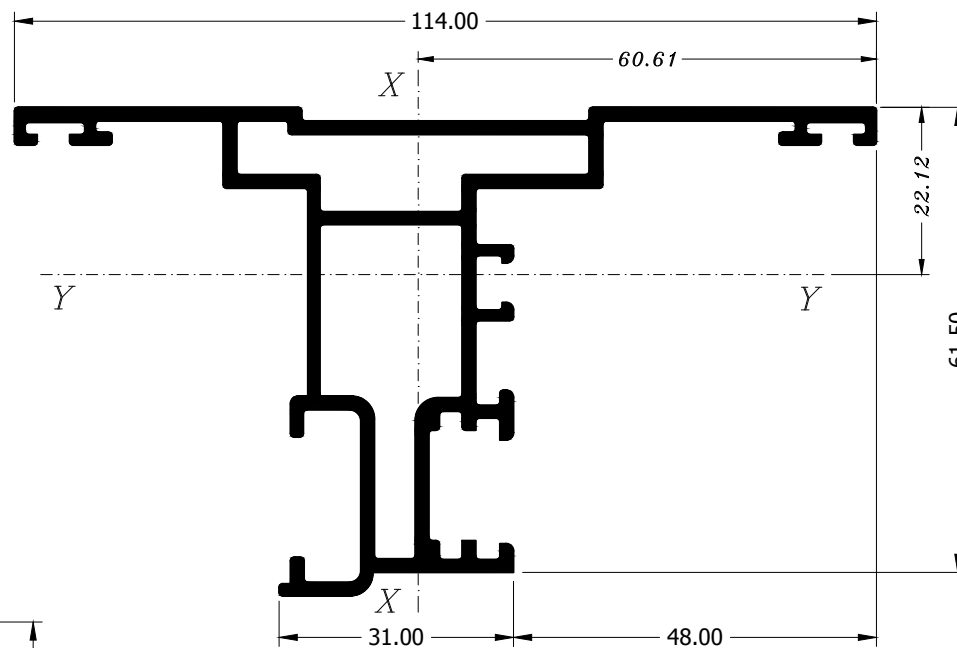




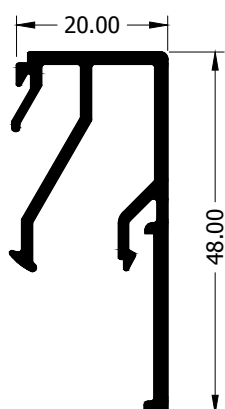
1 061 9610
1.345 Kg./ml.



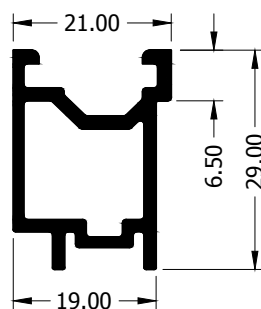
1 061 9620
0.707 Kg./ml.



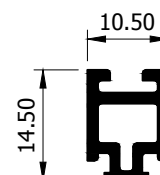
1 061 9670
1.650 Kg./ml.



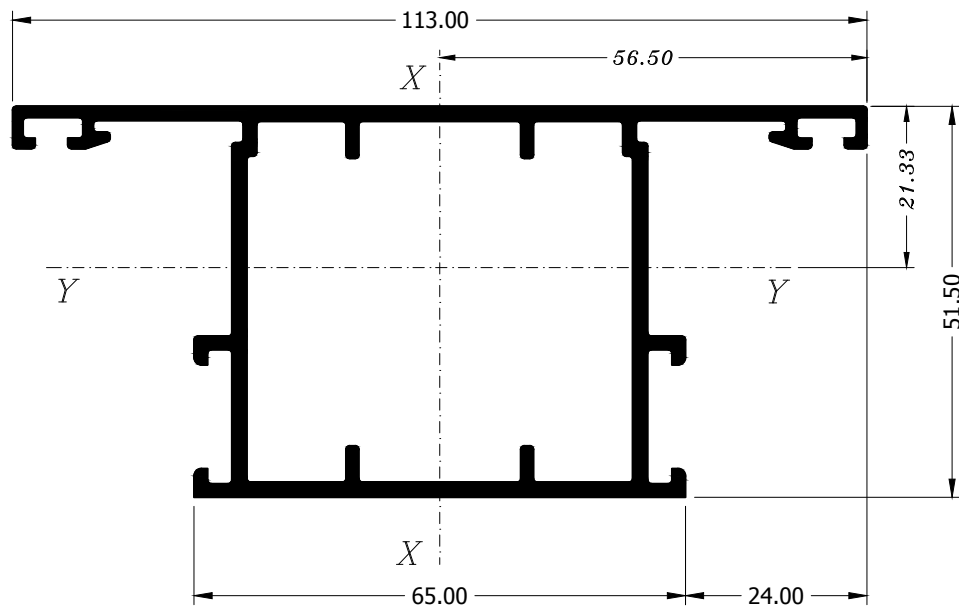
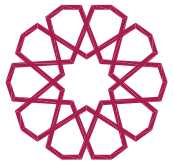
1 061 9810
0.439 Kg./ml.



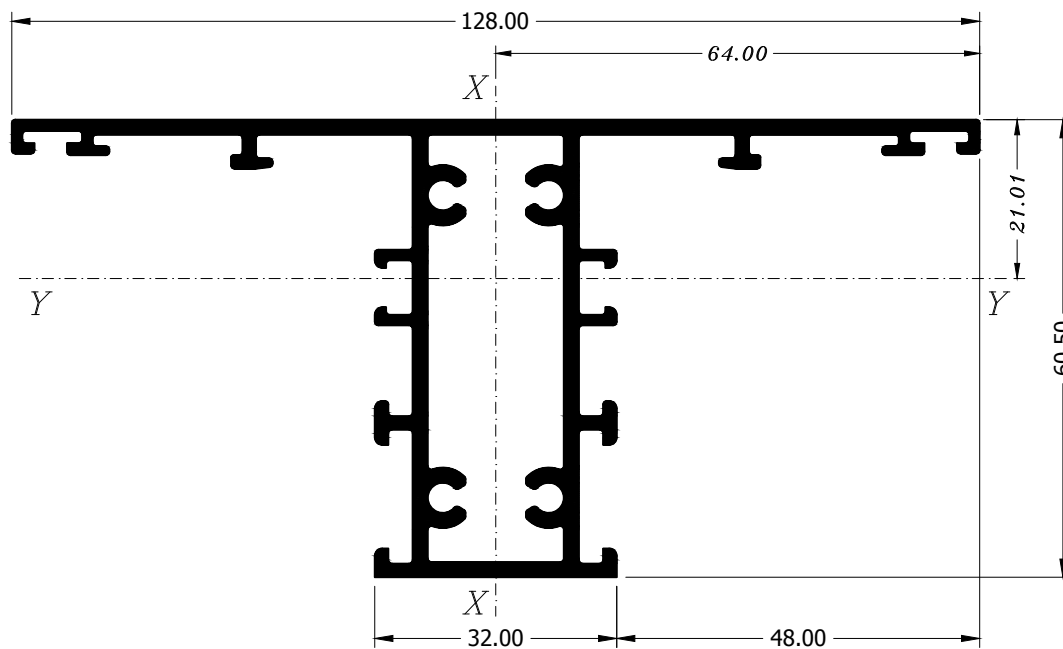
1 061 9820
0.399 Kg./ml.



1 061 9830
0.161 Kg./ml.

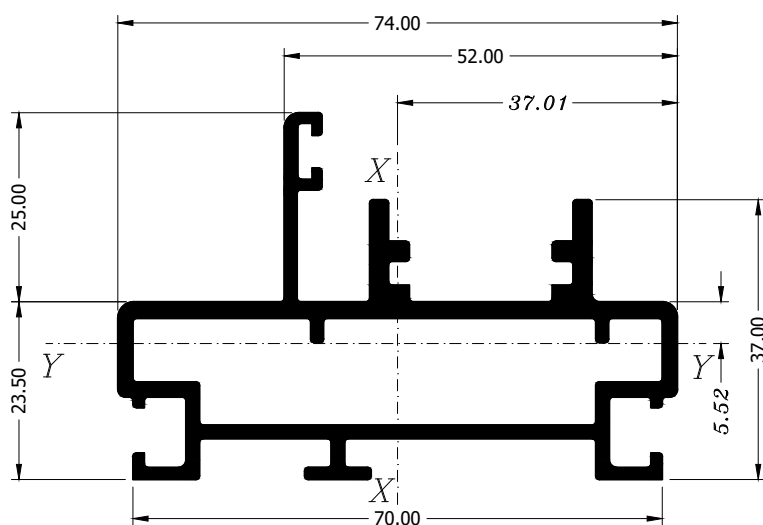
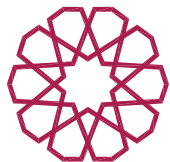


1 061 9702
1.595 Kg./ml.

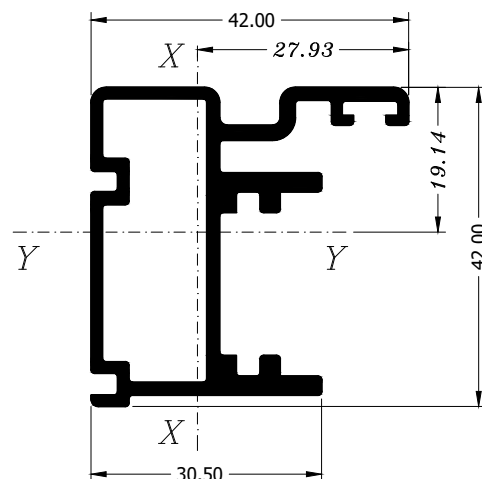


8 061 5760
1.742 Kg./ml.

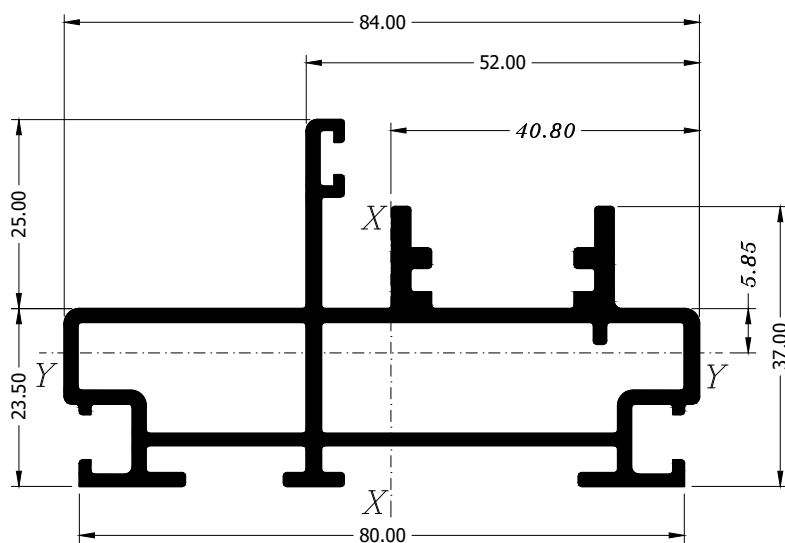
**This profile is
specially produced for rolling machines**



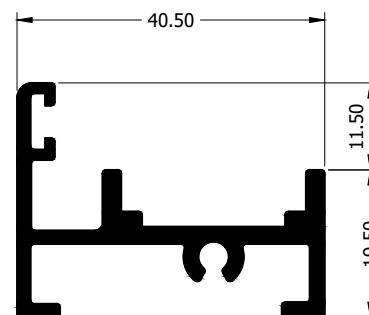
1 045 2672
1.523 Kg./ml.



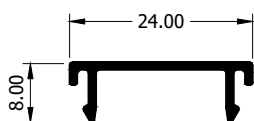
1 045 9630
0.902 Kg./ml.



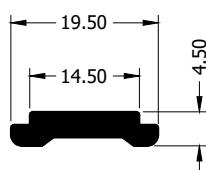
1 045 2682
1.592 Kg./ml.



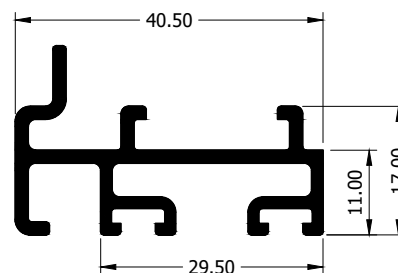
1 045 9140
0.629 Kg./ml.



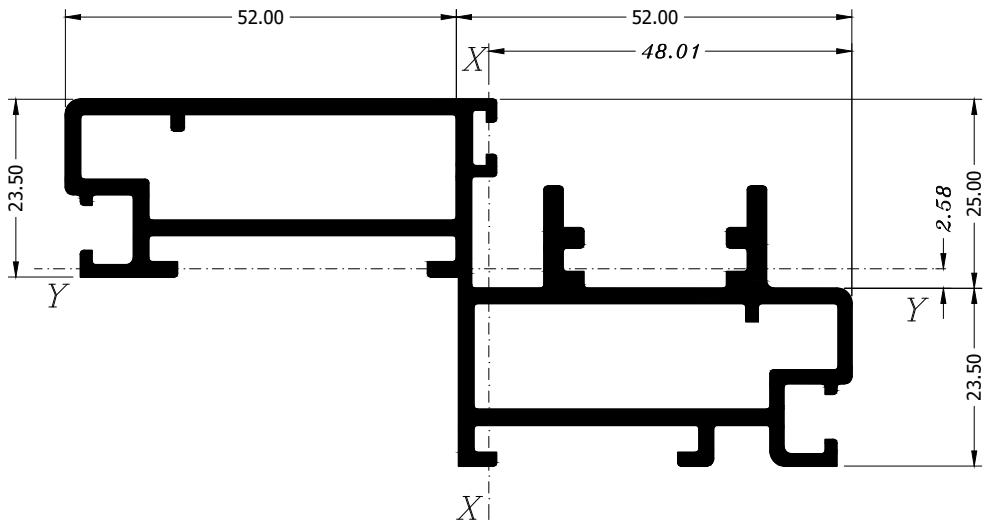
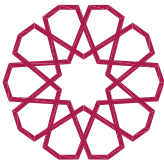
1 045 9010
0.116 Kg./ml.



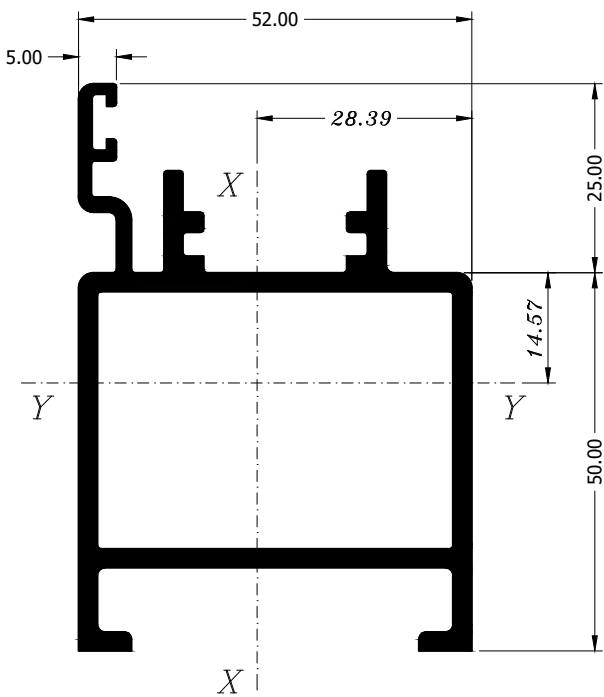
1 045 9910
0.146 Kg./ml.



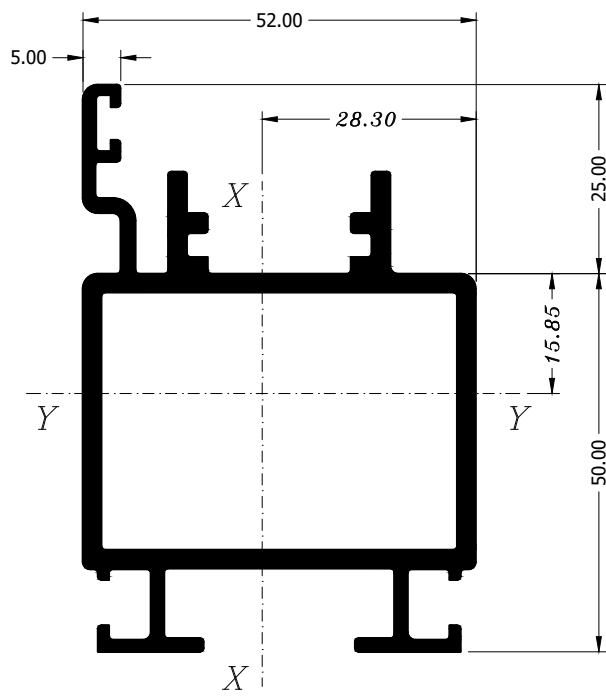
1 045 9440
0.541 Kg./ml.



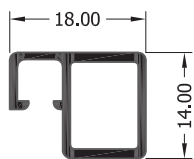
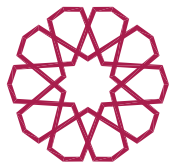
$$\frac{1\ 045\ 3623}{1.839\ Kg./ml.}$$



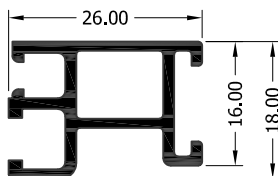
$$\frac{1\ 045\ 3700}{1.420\ Kg./ml.}$$



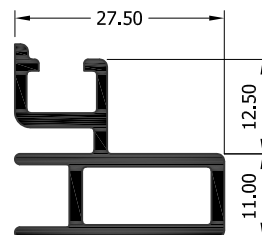
$$\frac{1\ 045\ 3720}{1.478\ Kg./ml.}$$



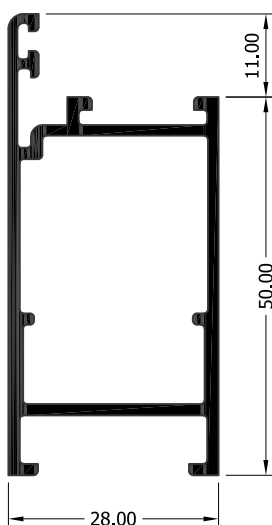
5 025 4810
0.165 Kg./ml.



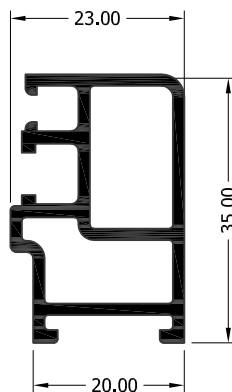
5 025 4830
0.307 Kg./ml.



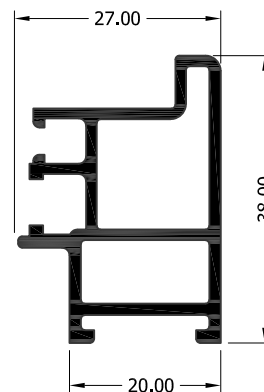
5 025 4832
0.420 Kg./ml.



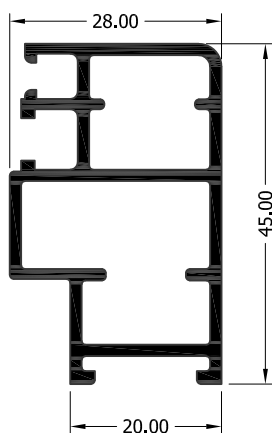
5 028 1210
0.634 Kg./ml.



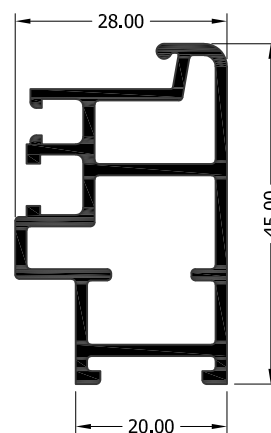
5 028 4310
0.477 Kg./ml.



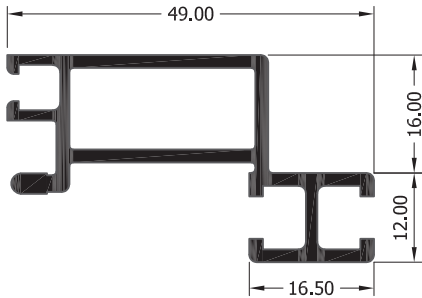
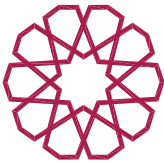
5 028 4311
0.514 Kg./ml.



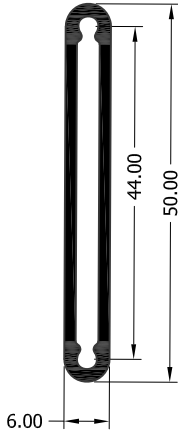
5 028 4460
0.630 Kg./ml.



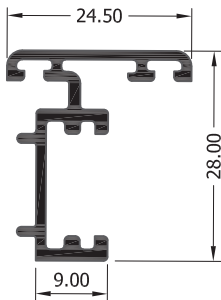
5 028 4461
0.618 Kg./ml.



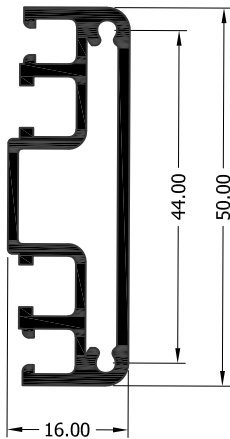
5 028 9210
 0.615 Kg./ml.



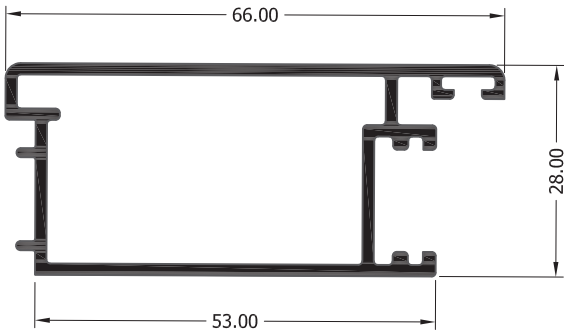
5 900 5020
 0.375 Kg./ml.



5 028 9610
 0.302 Kg./ml.



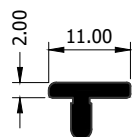
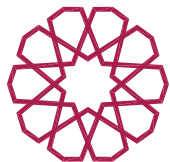
5 900 5410
 0.610 Kg./ml.



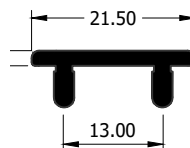
5 028 9620
 0.672 Kg./ml.



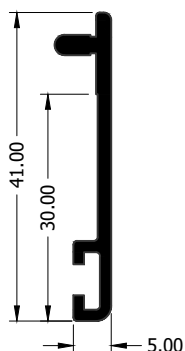
5 900 9100
 0.100 Kg./ml.



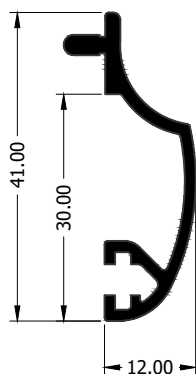
9 001 1100
0.092 Kg./ml.



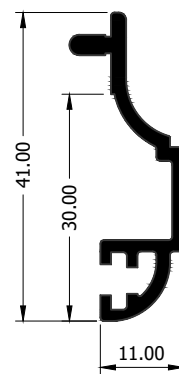
9 002 1200
0.181 Kg./ml.



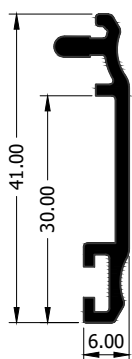
9 001 1300
0.240 Kg./ml.



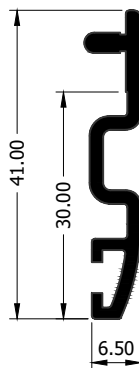
9 001 1302
0.308 Kg./ml.



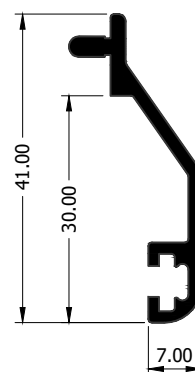
9 001 1303
0.285 Kg./ml.



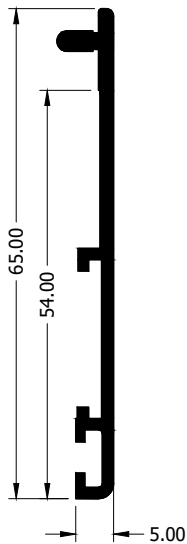
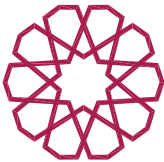
9 001 1304
0.259 Kg./ml.



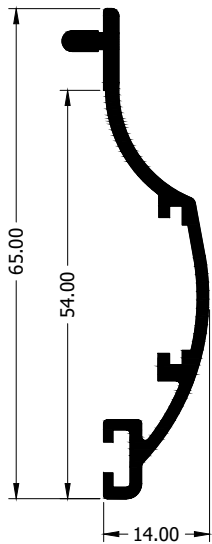
9 001 1305
0.275 Kg./ml.



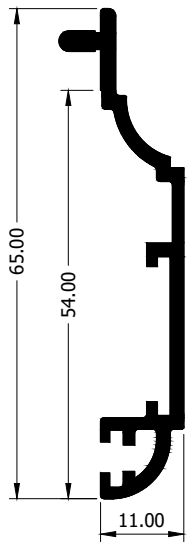
9 001 1308
0.291 Kg./ml.



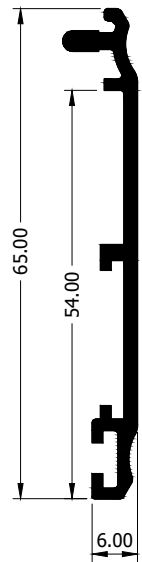
9 001 1500
0.348 Kg./ml.



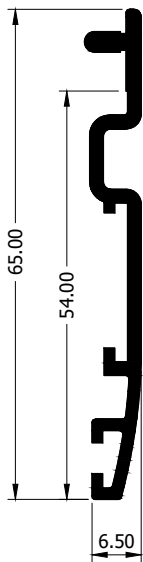
9 001 1502
0.424 Kg./ml.



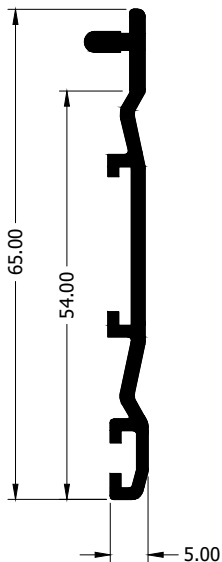
9 001 1503
0.402 Kg./ml.



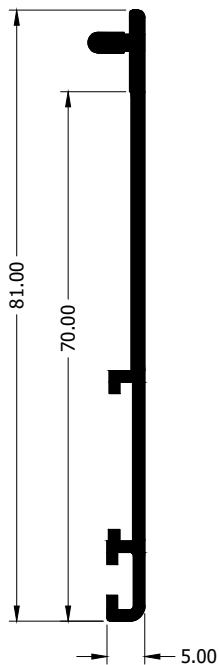
9 001 1504
0.370 Kg./ml.



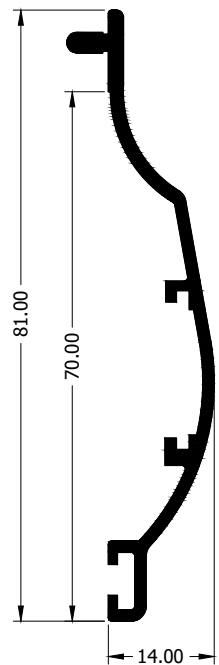
9 001 1505
0.383 Kg./ml.



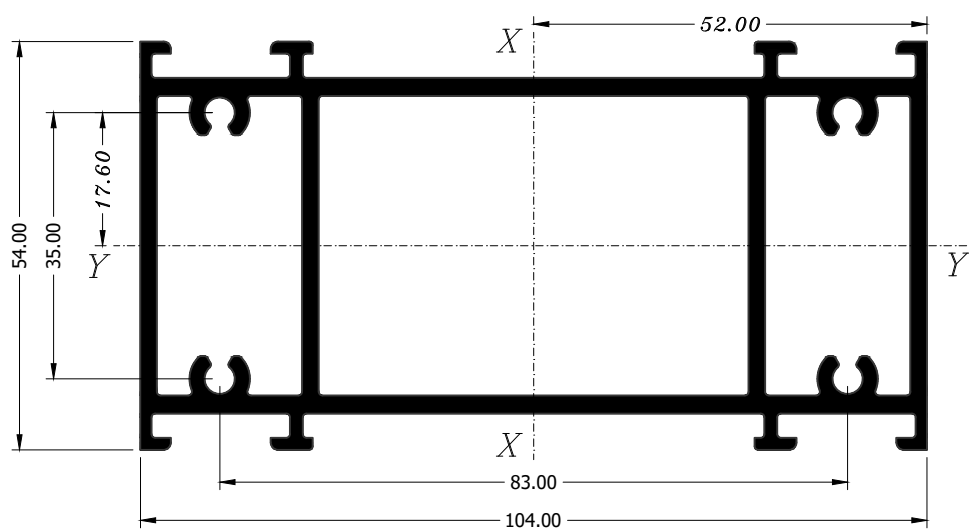
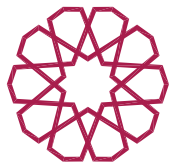
9 001 1507
0.383 Kg./ml.



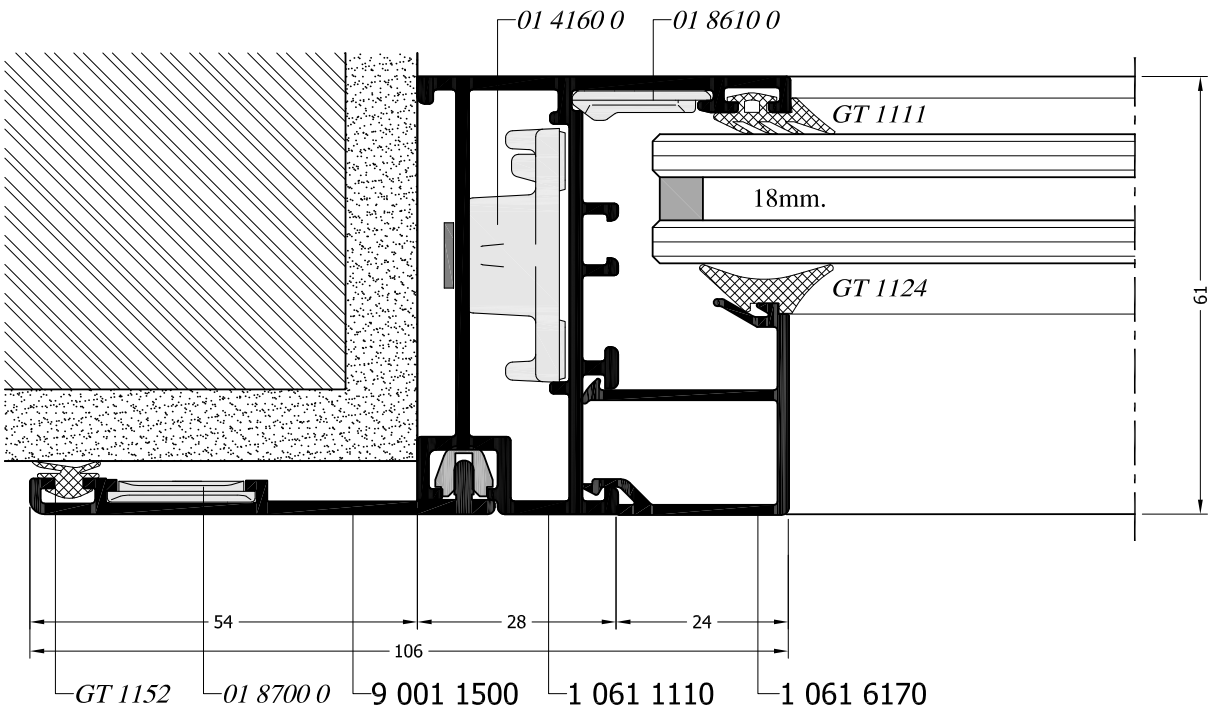
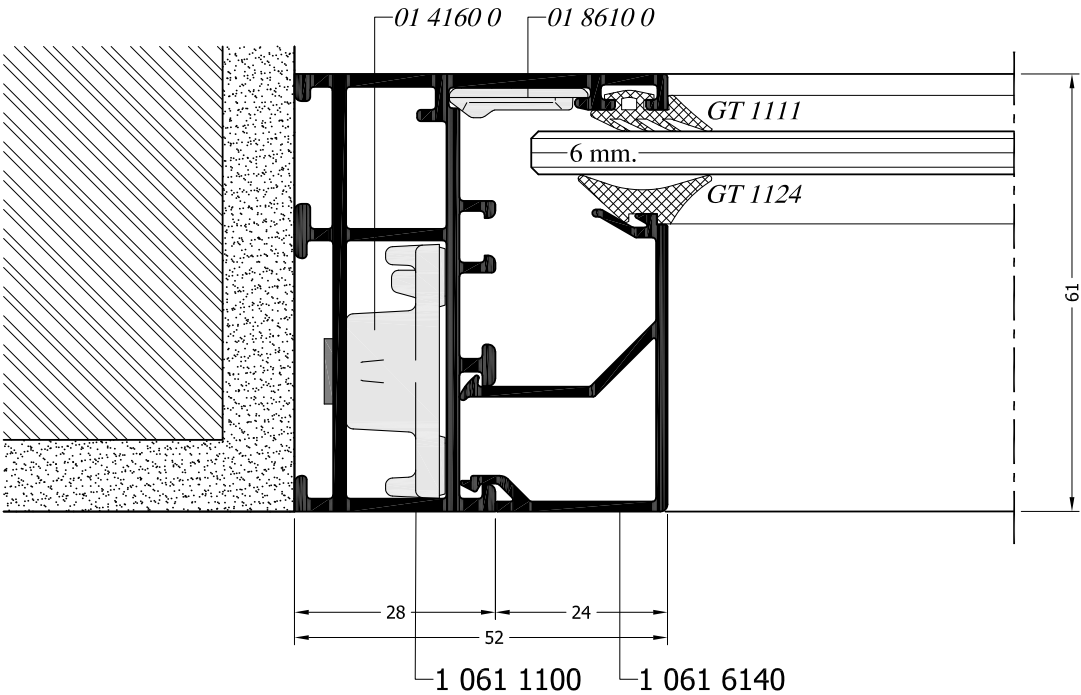
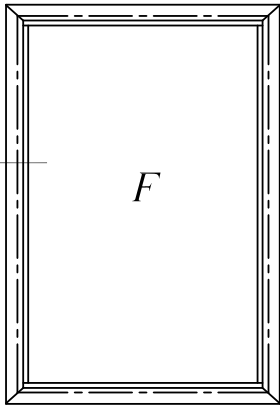
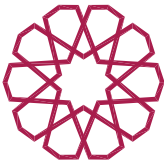
9 001 1700
0.418 Kg./ml.

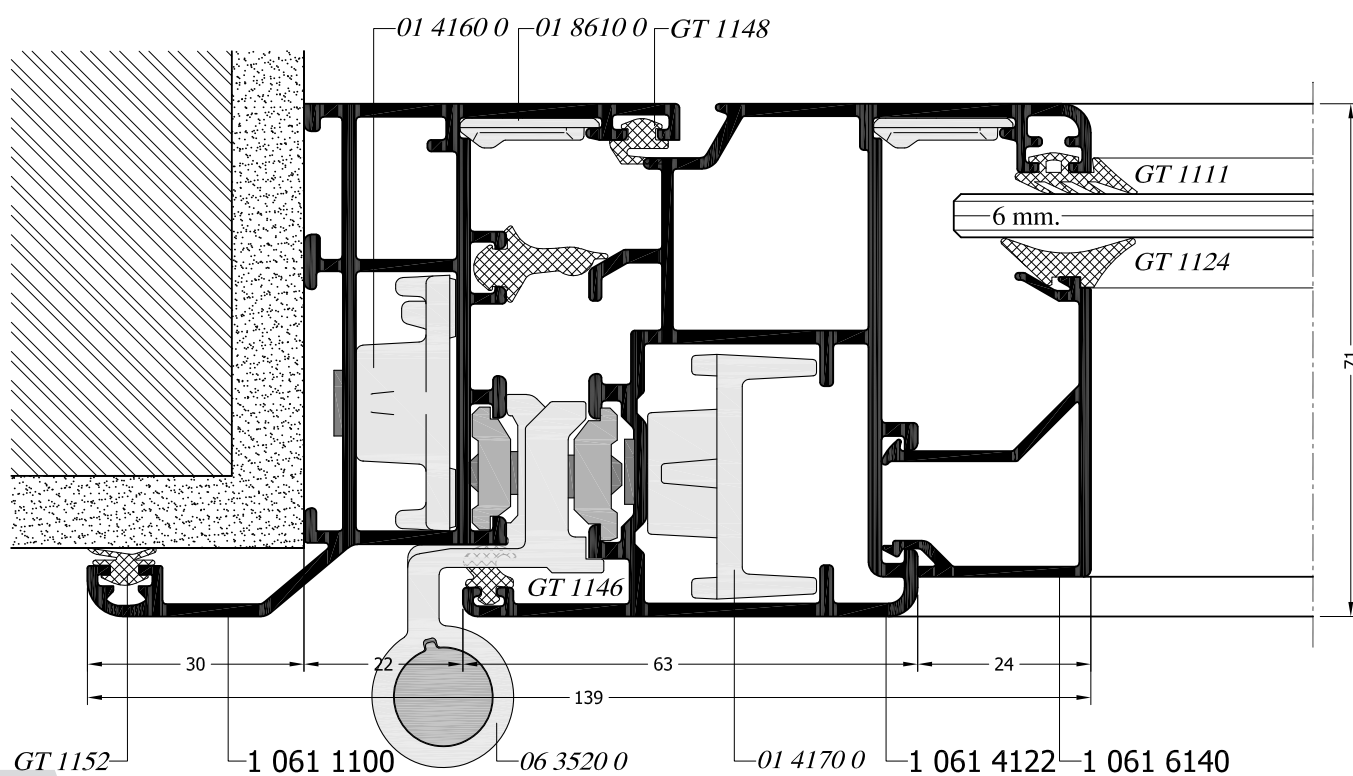
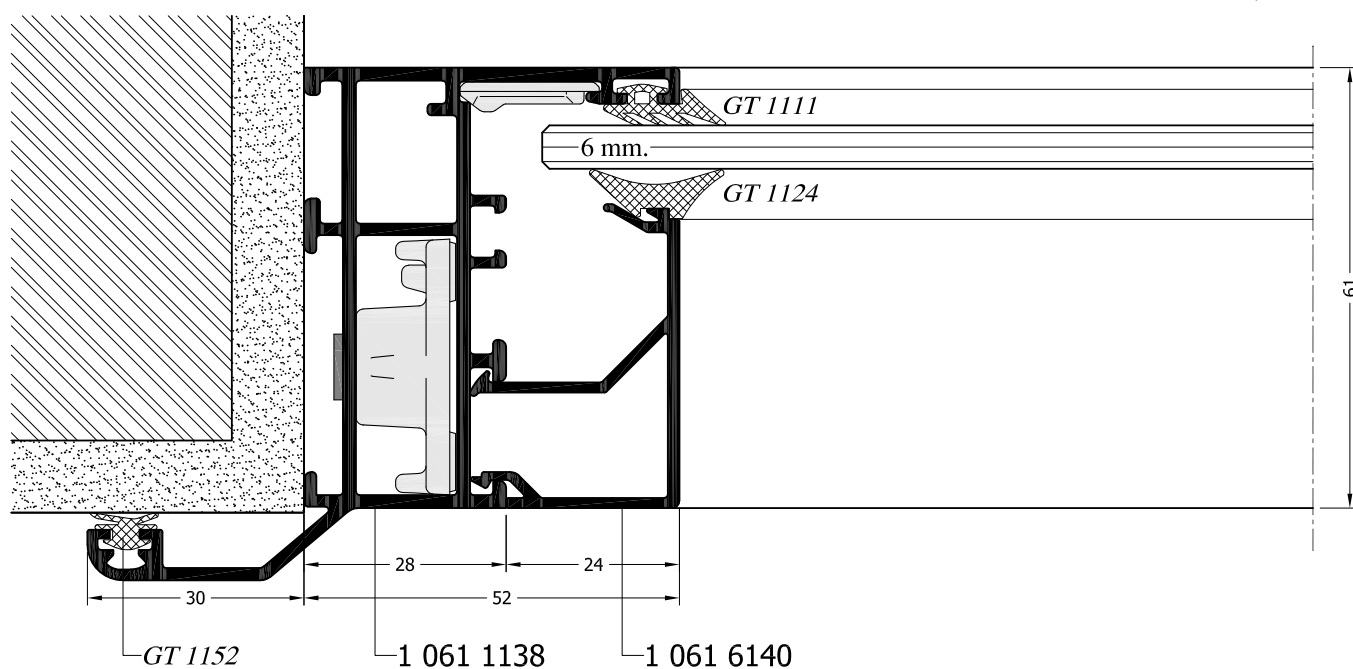
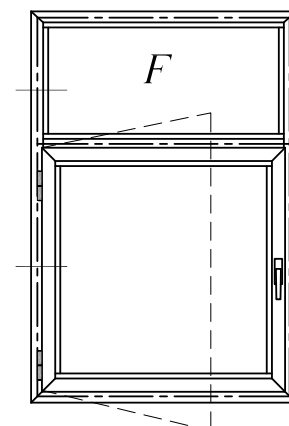
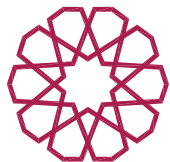


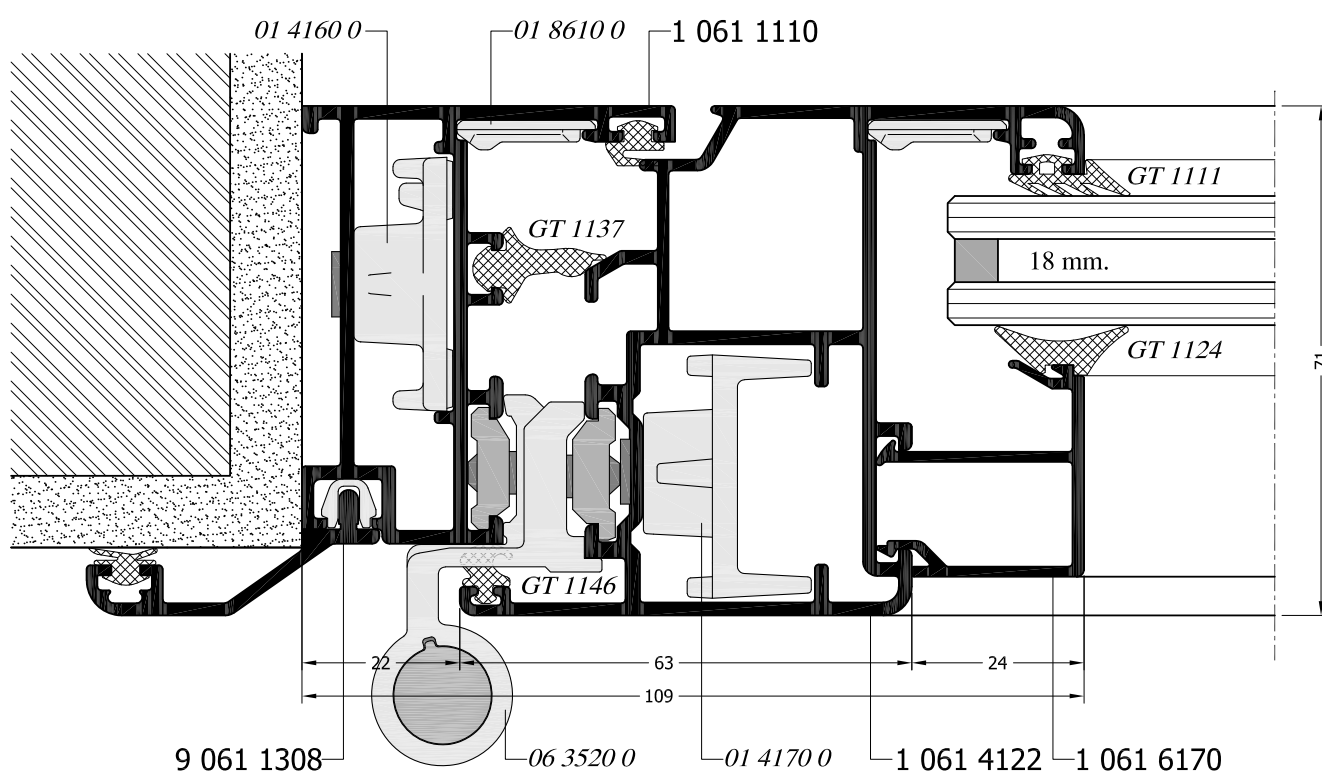
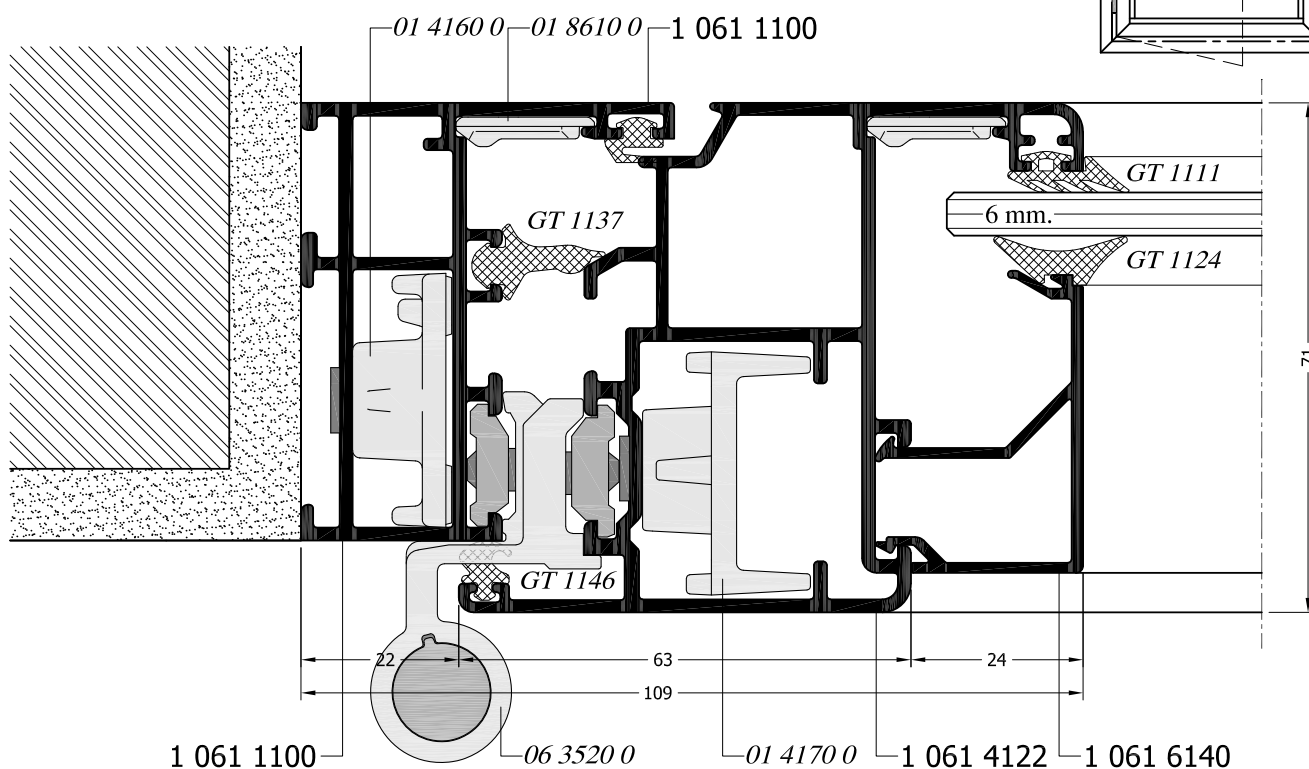
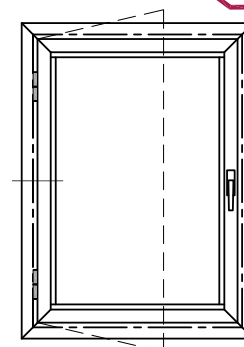
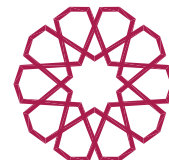
9 001 1702
0.473 Kg./ml.

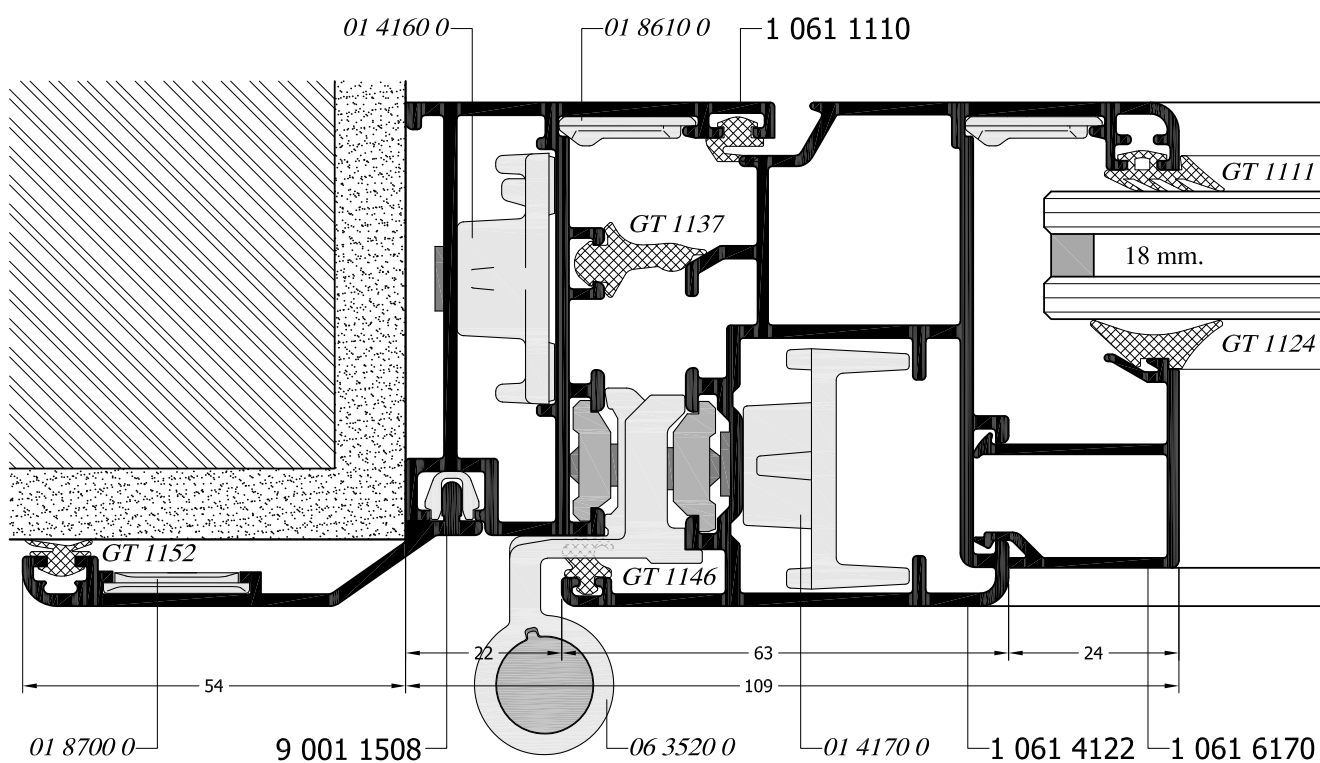
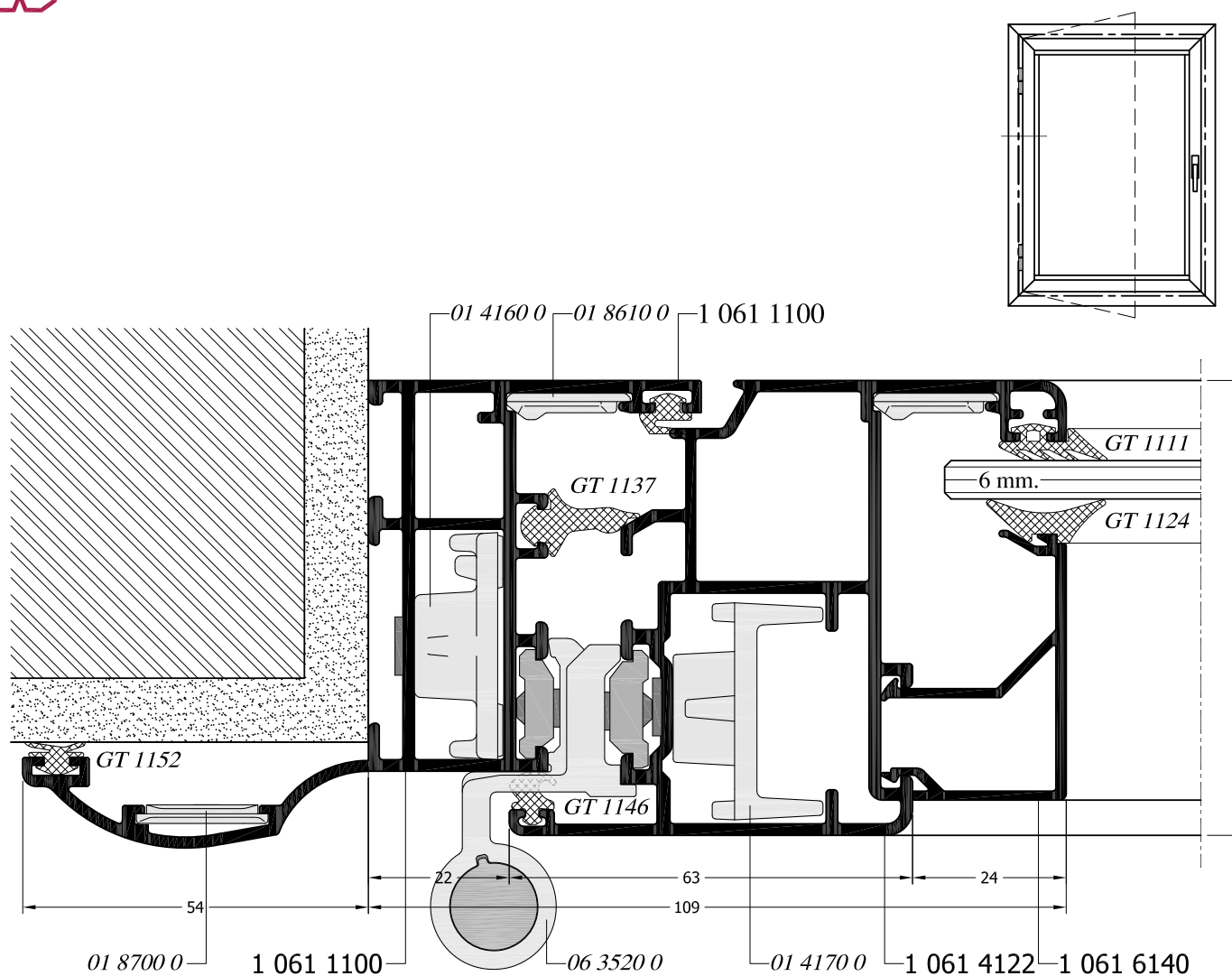
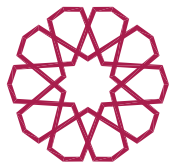


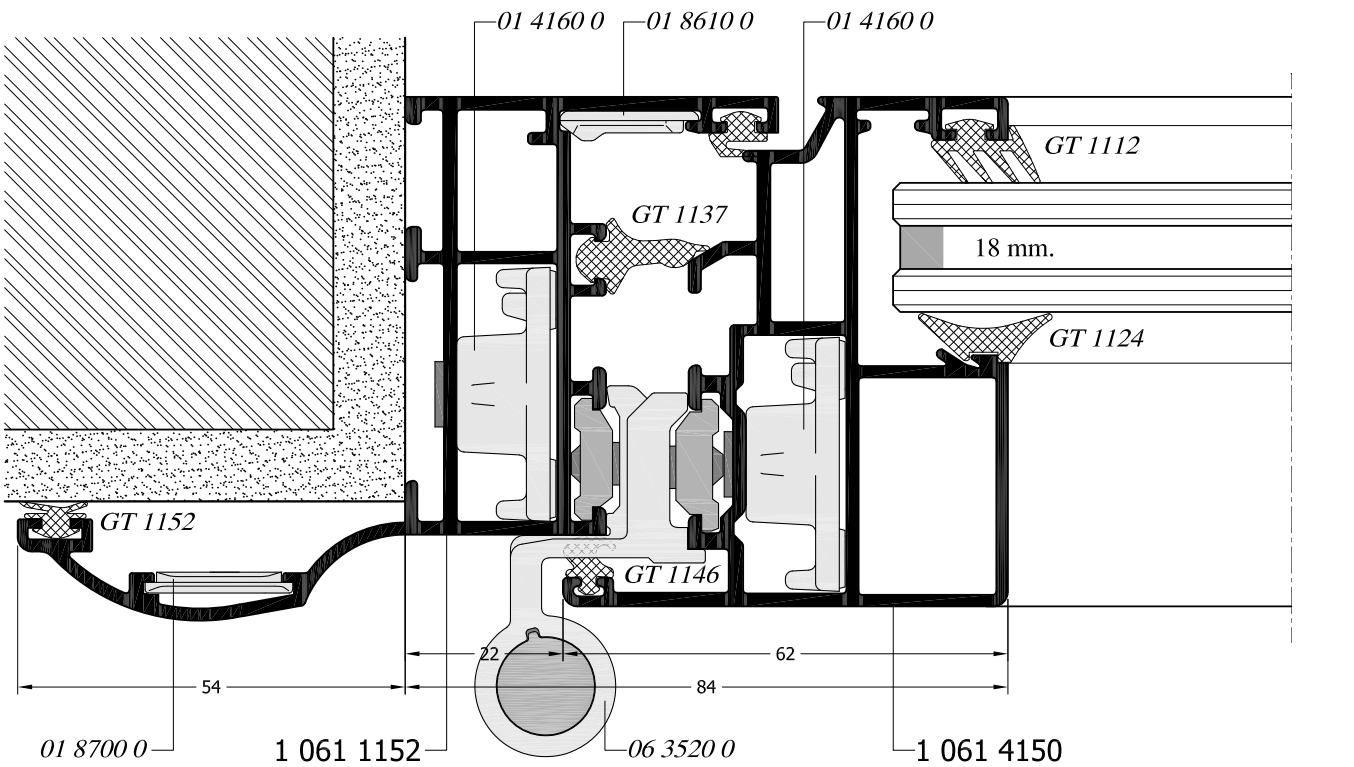
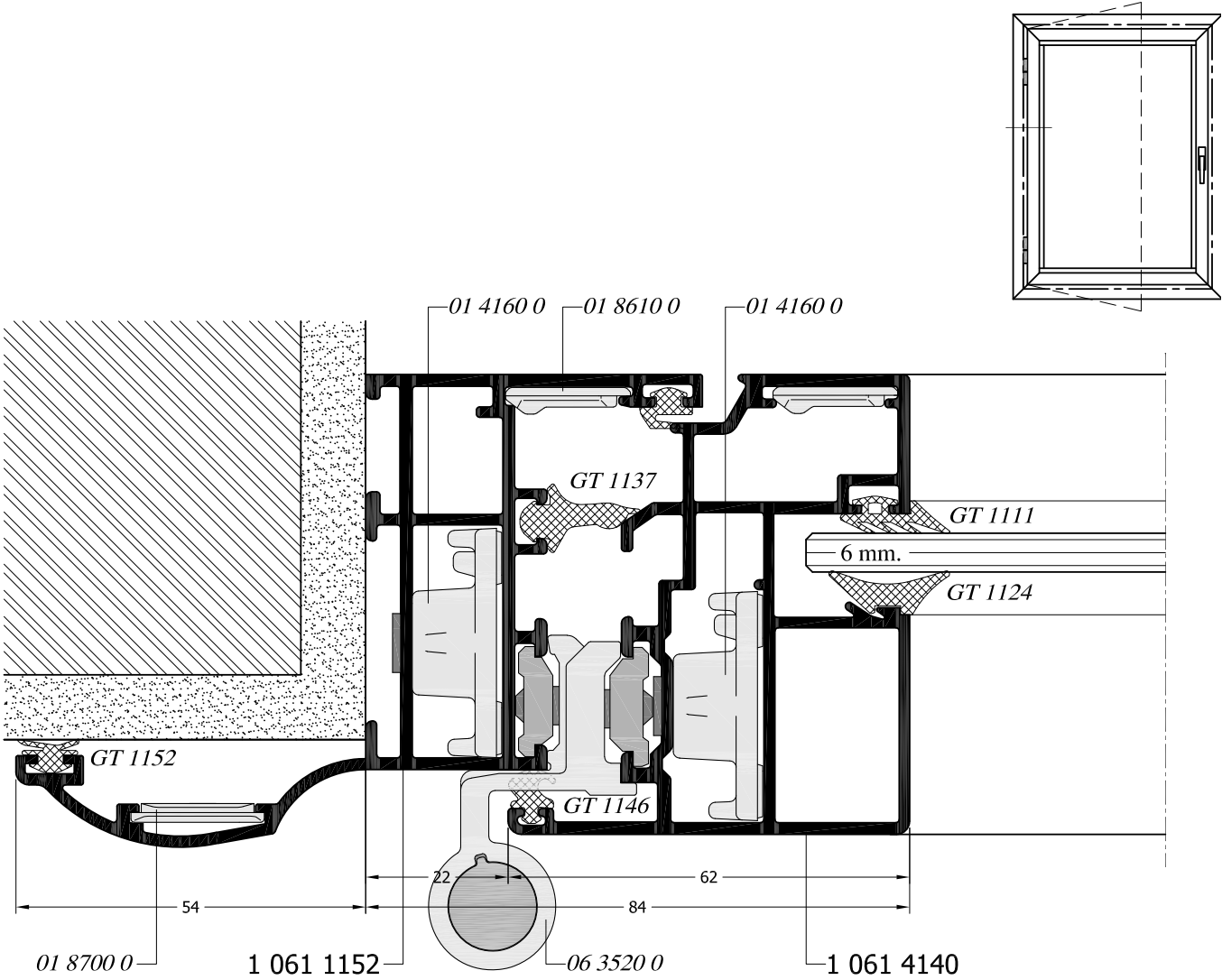
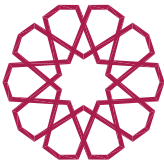
9 008 5100
2.345 Kg./ml.

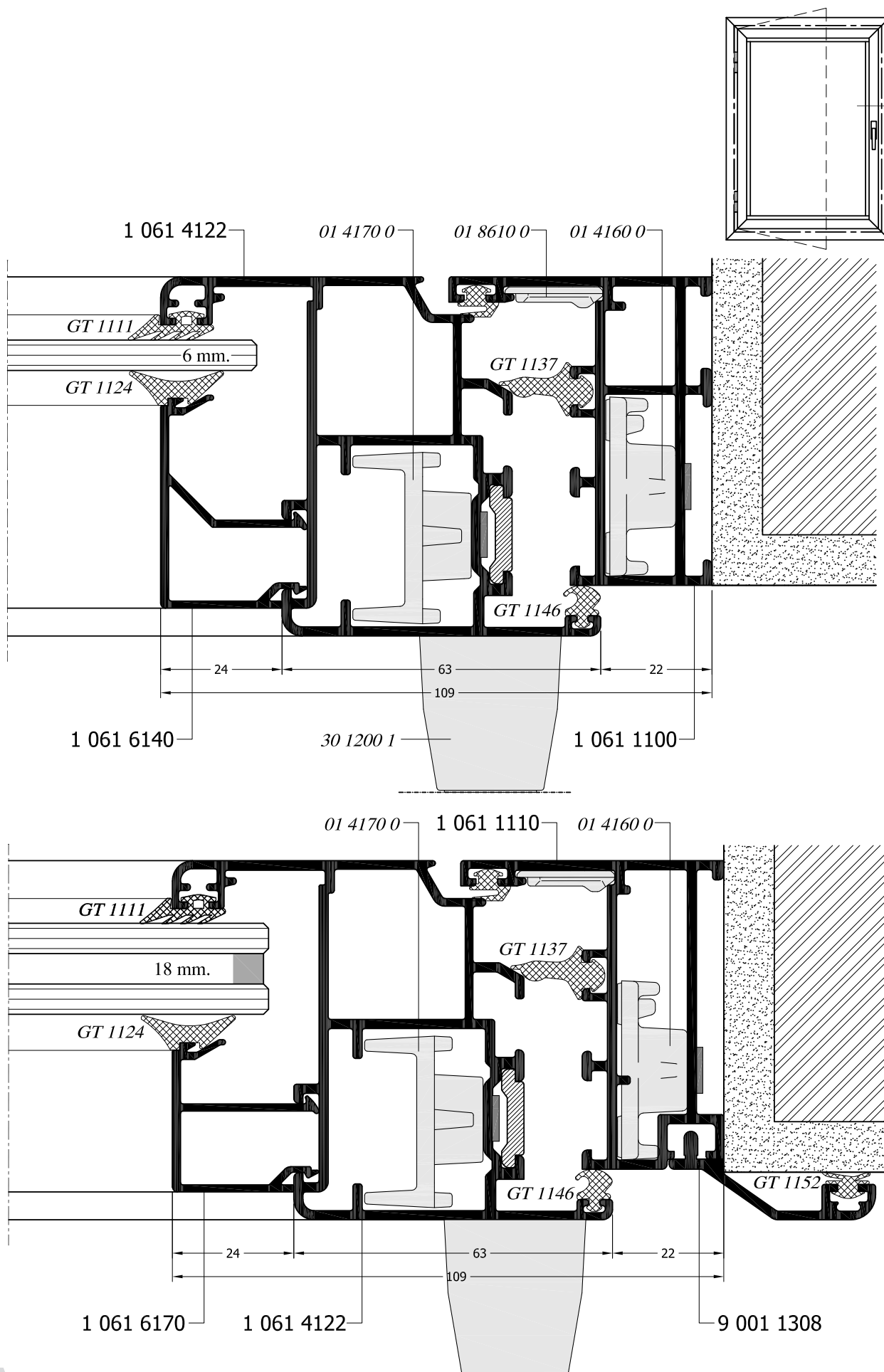
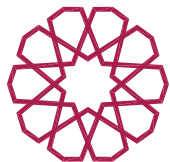


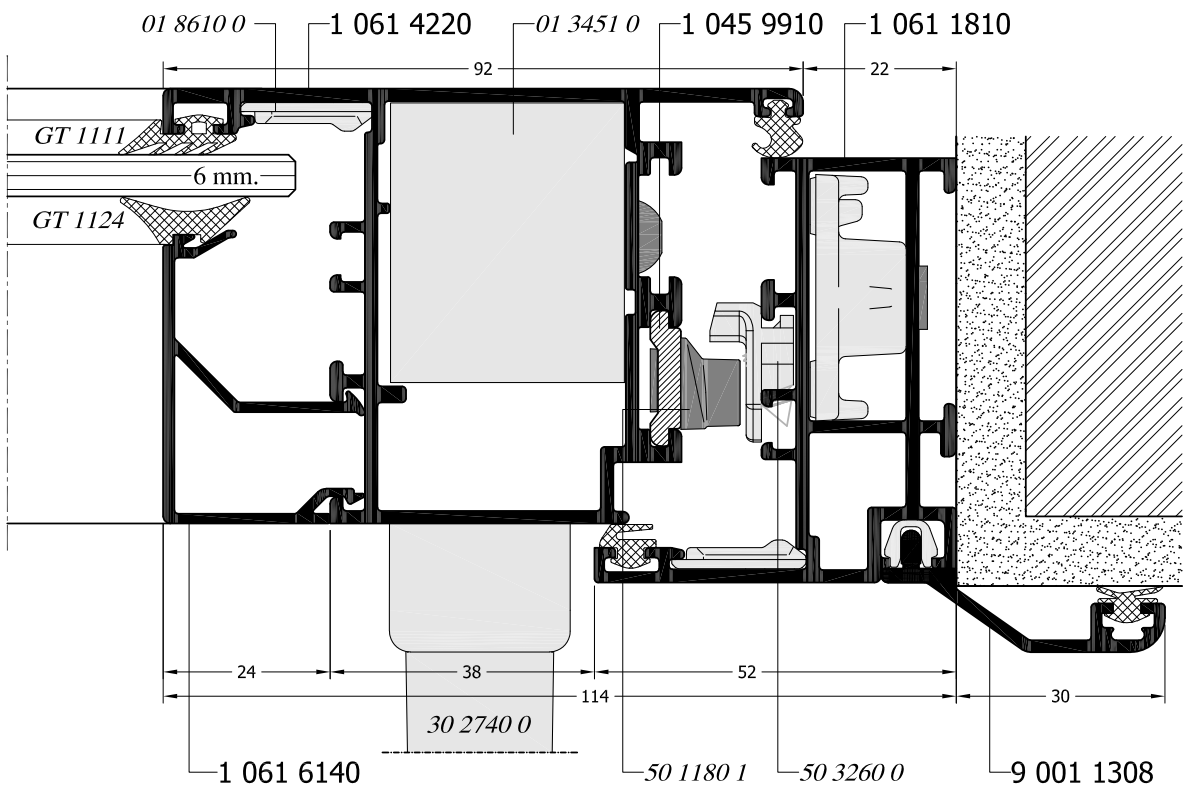
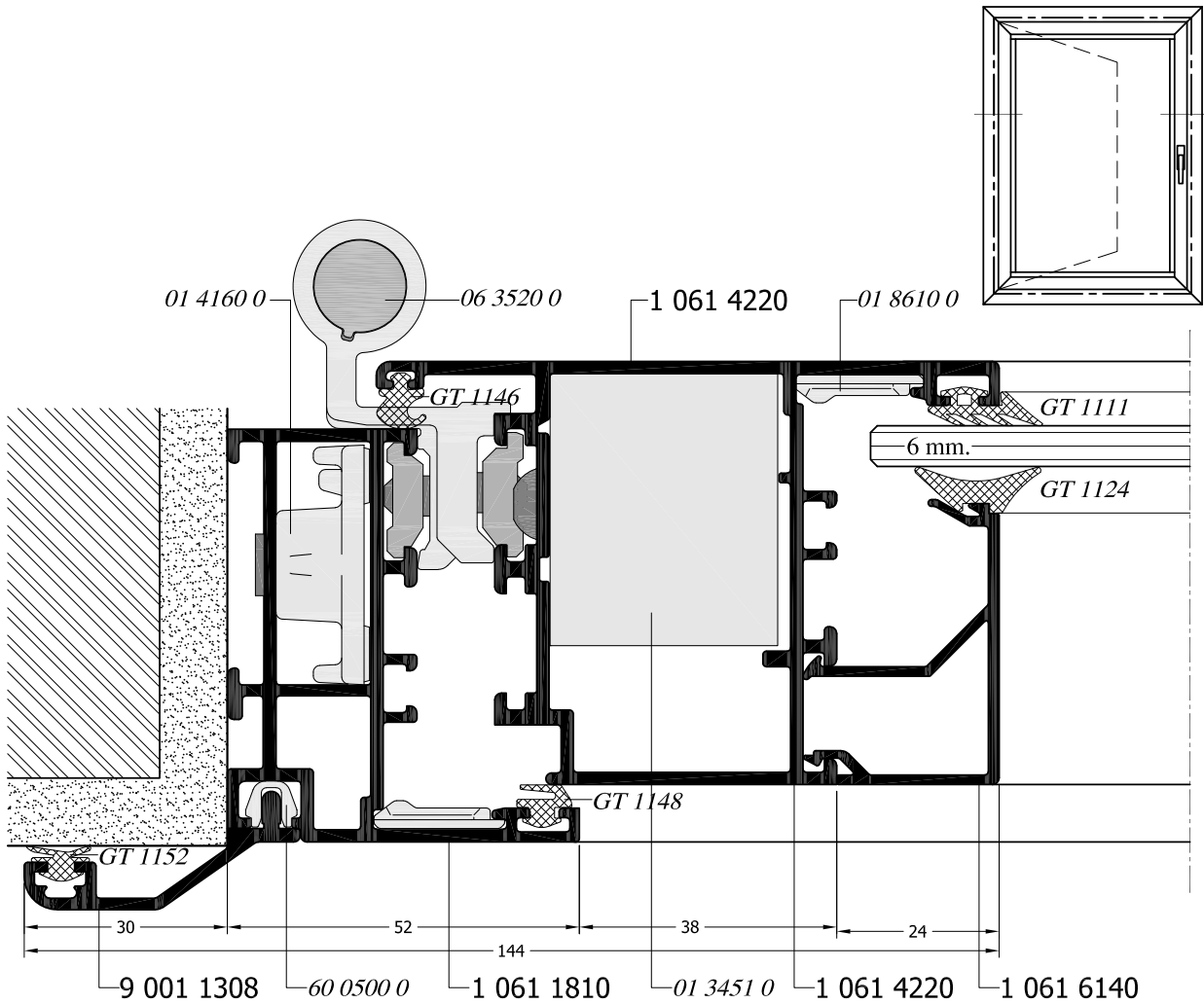


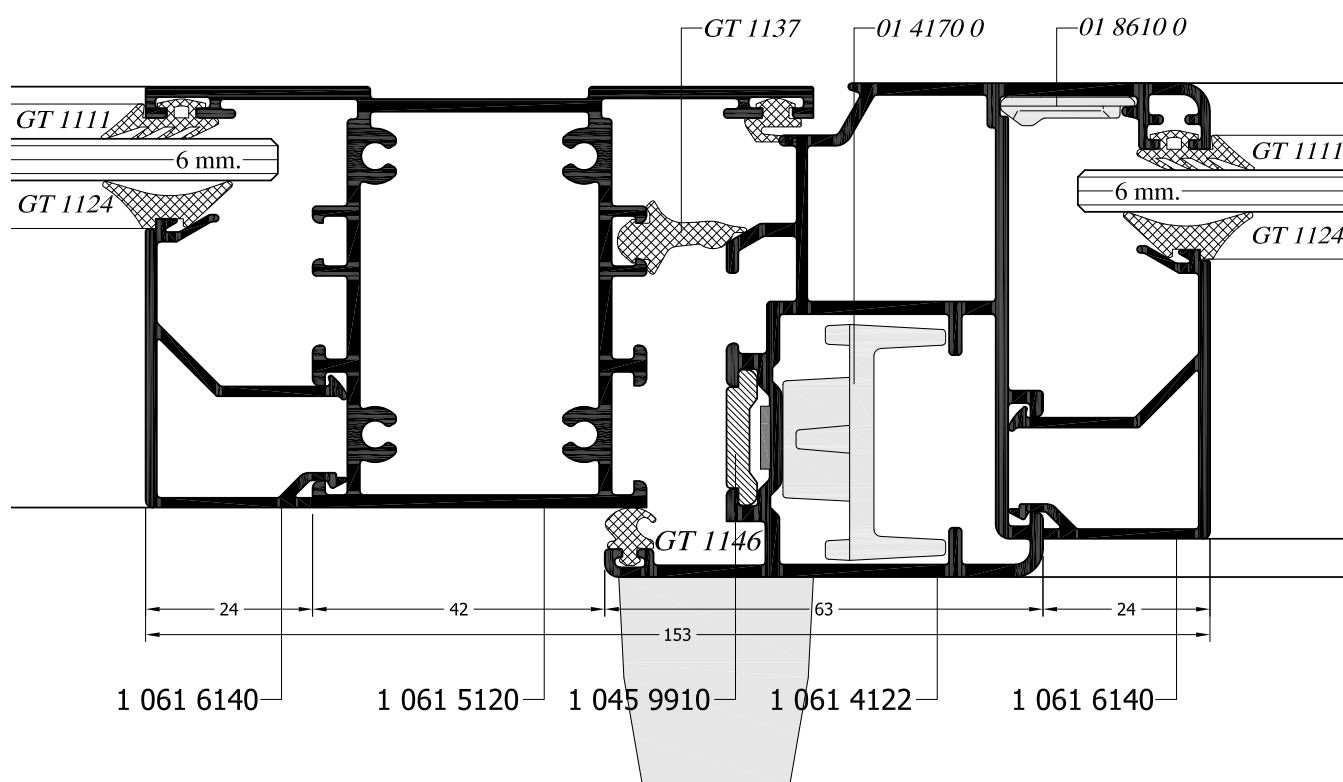
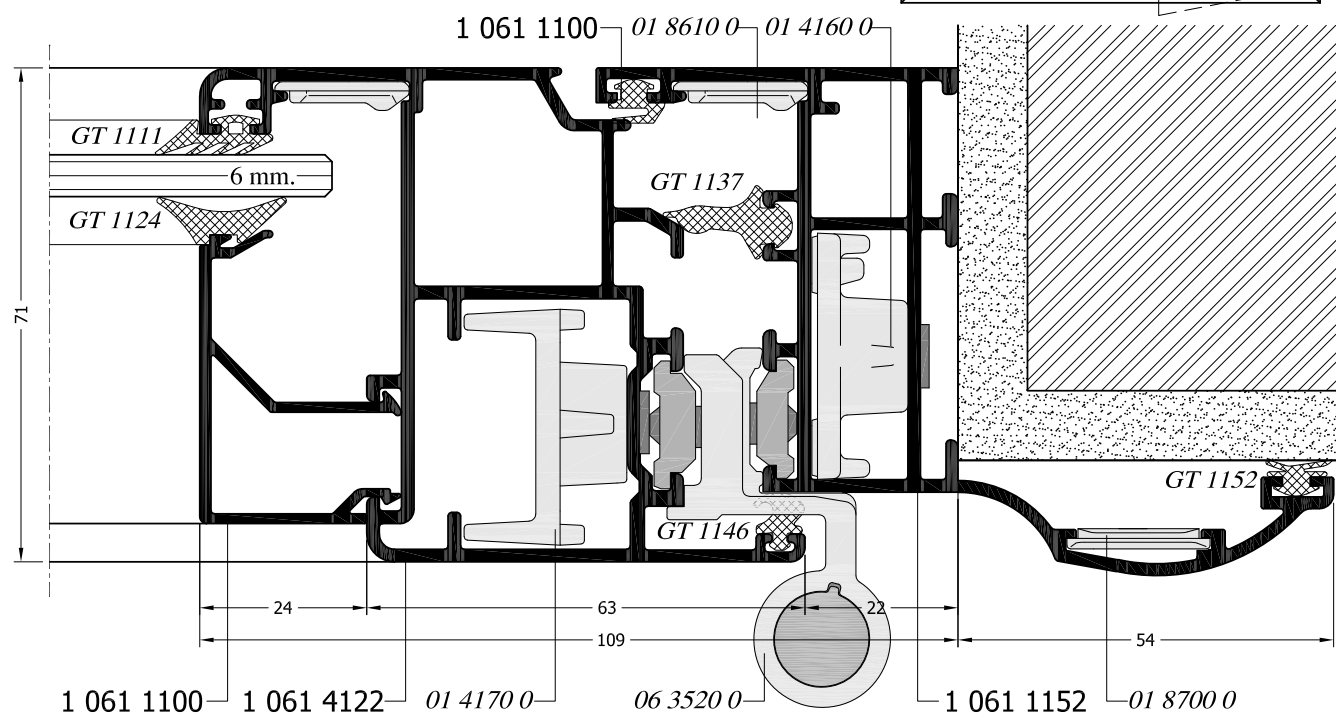
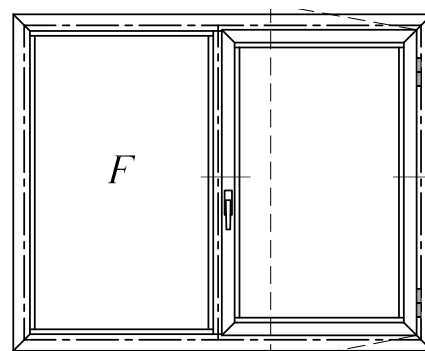
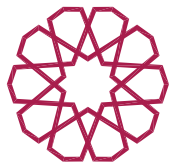


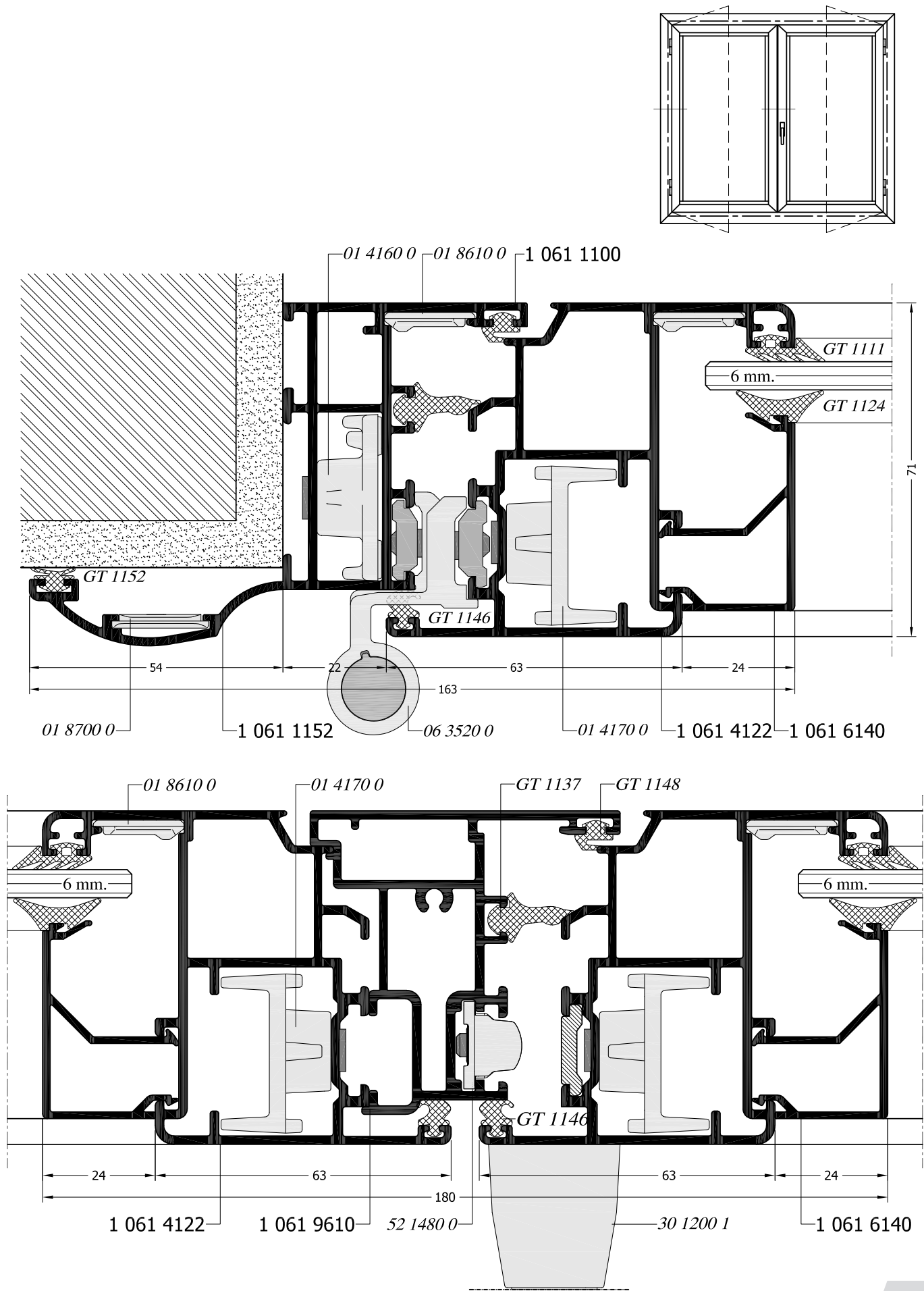
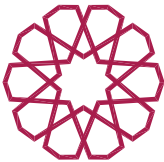


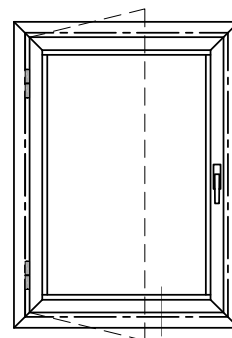
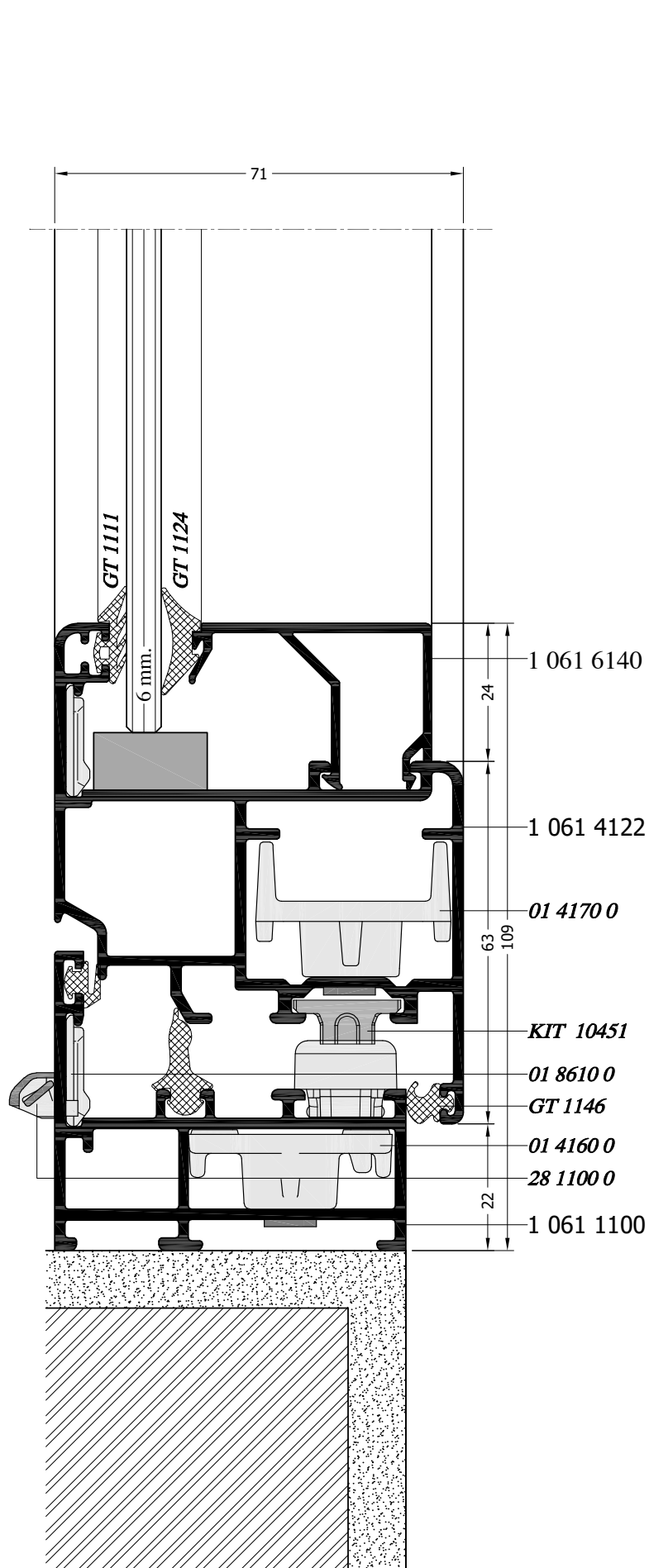
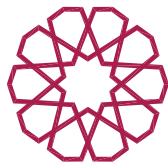


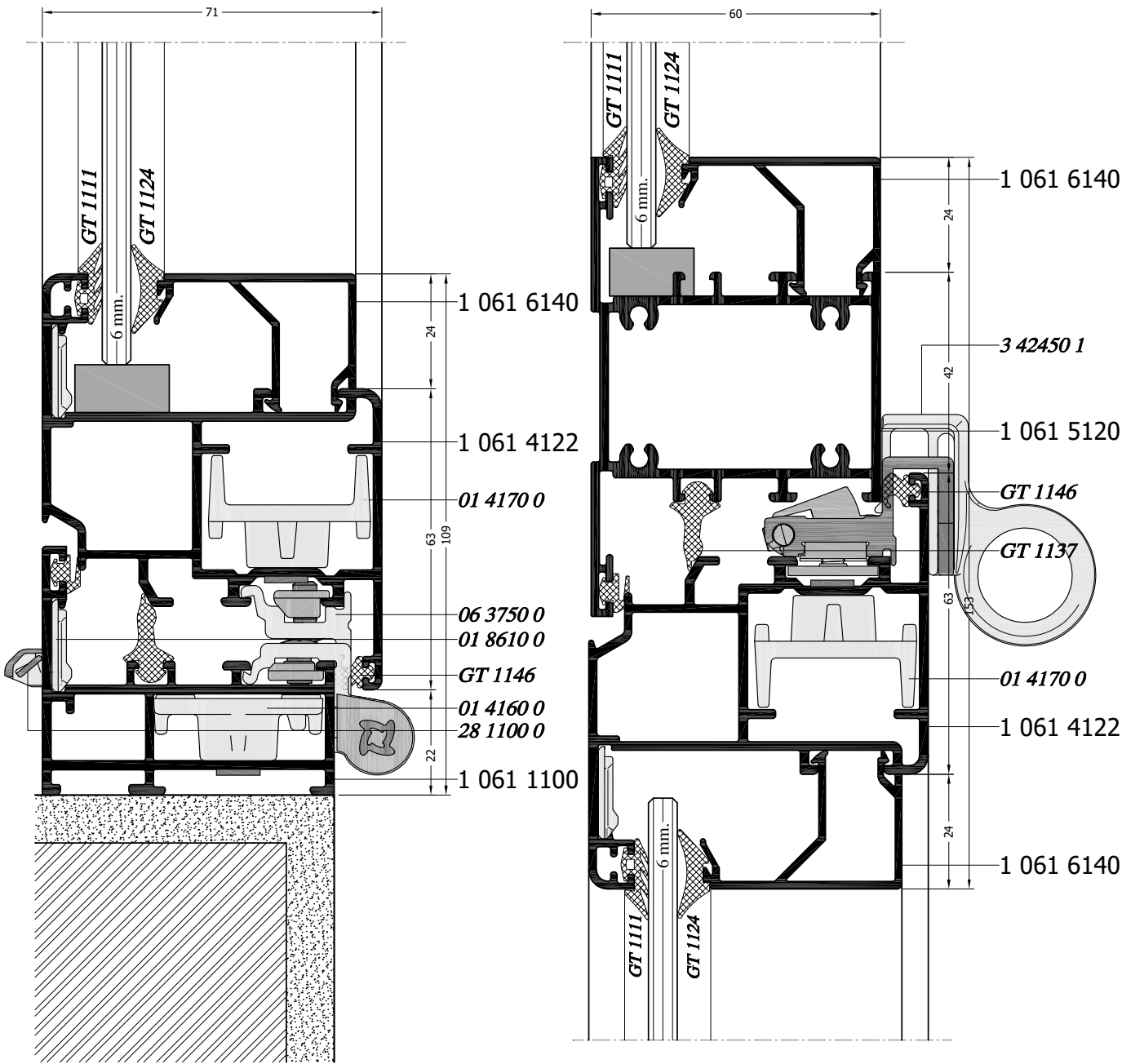
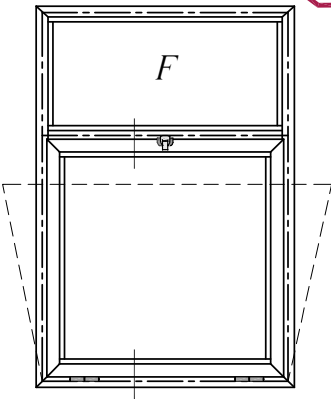
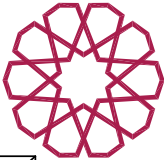


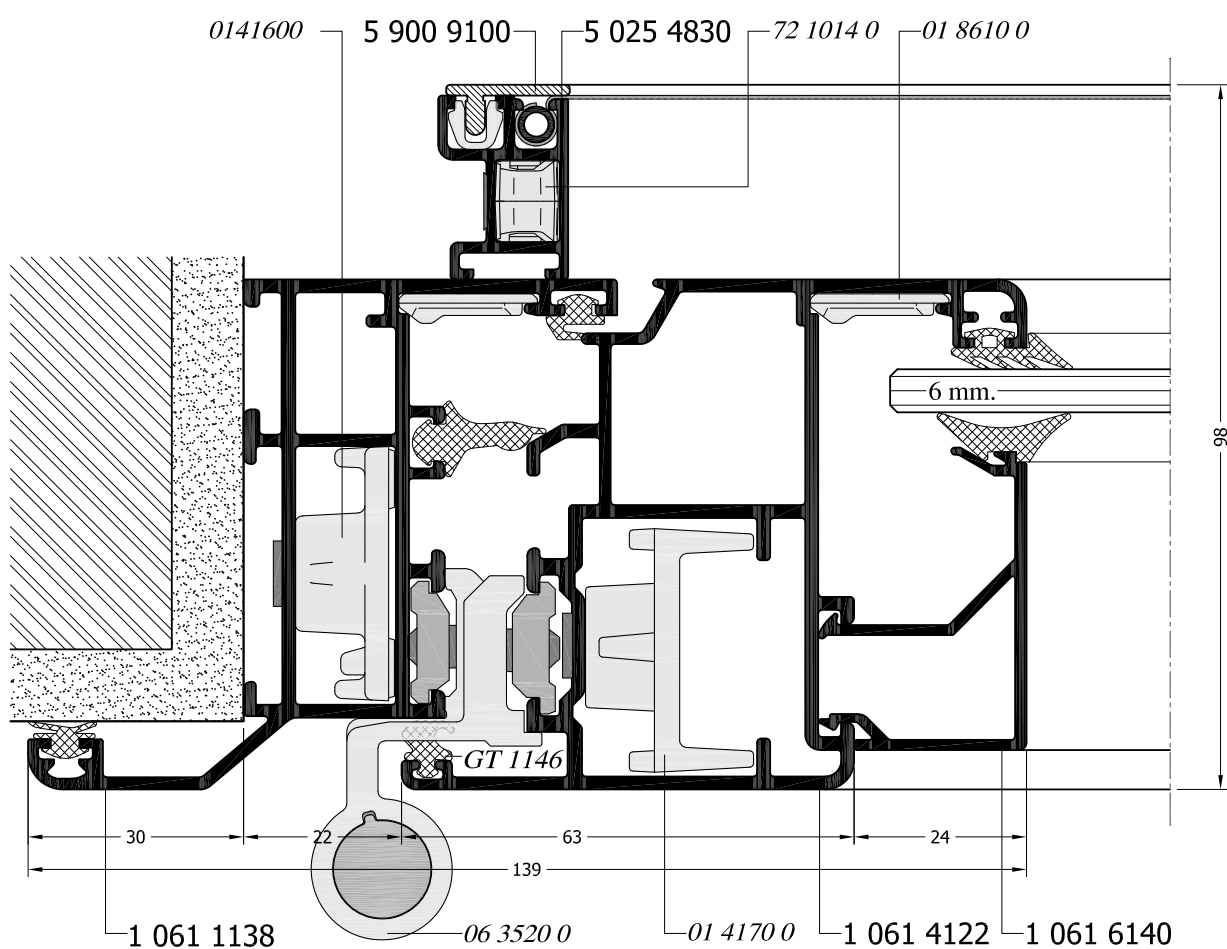
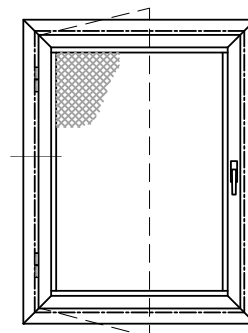
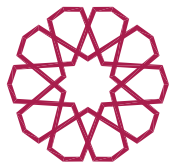


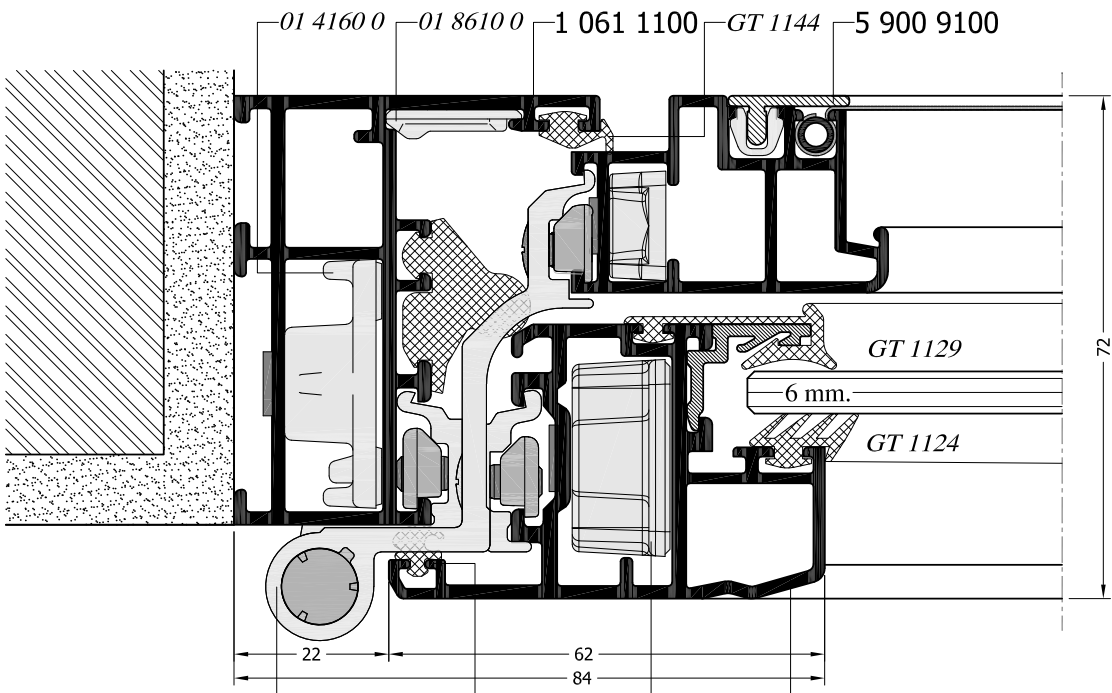
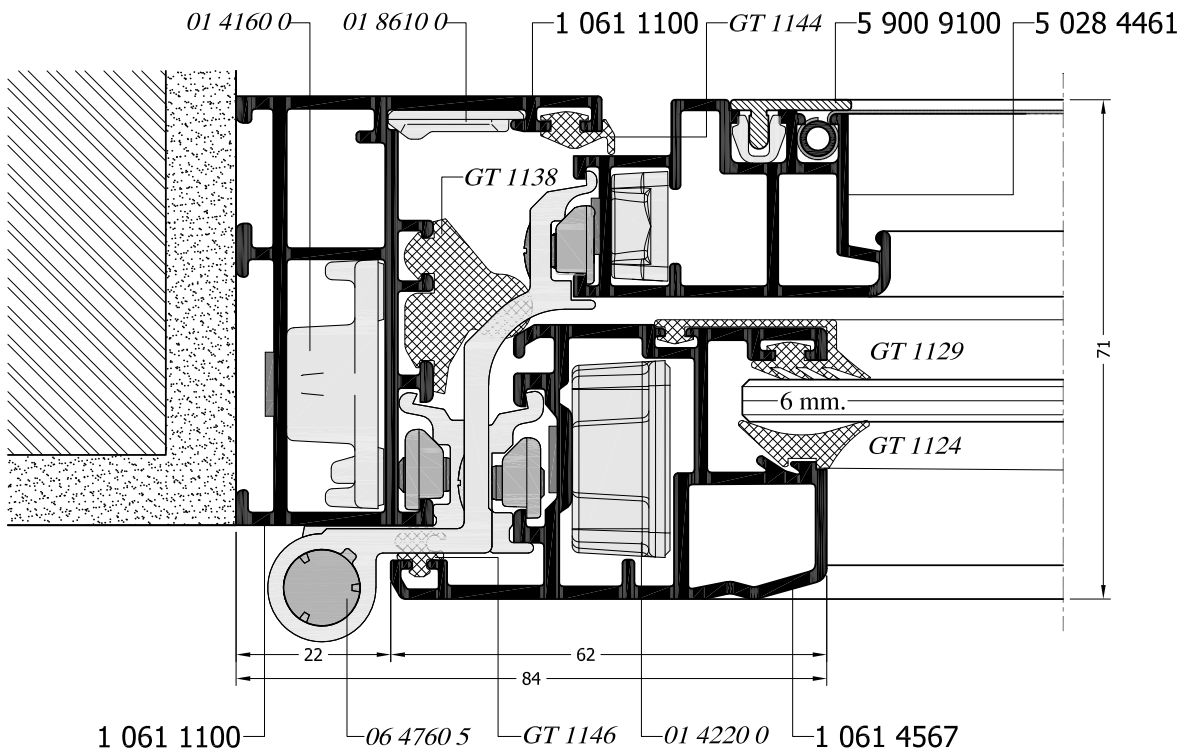
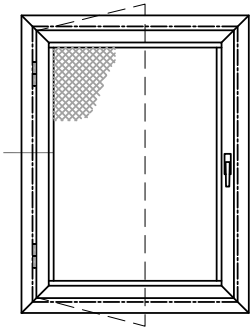
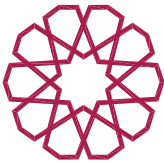


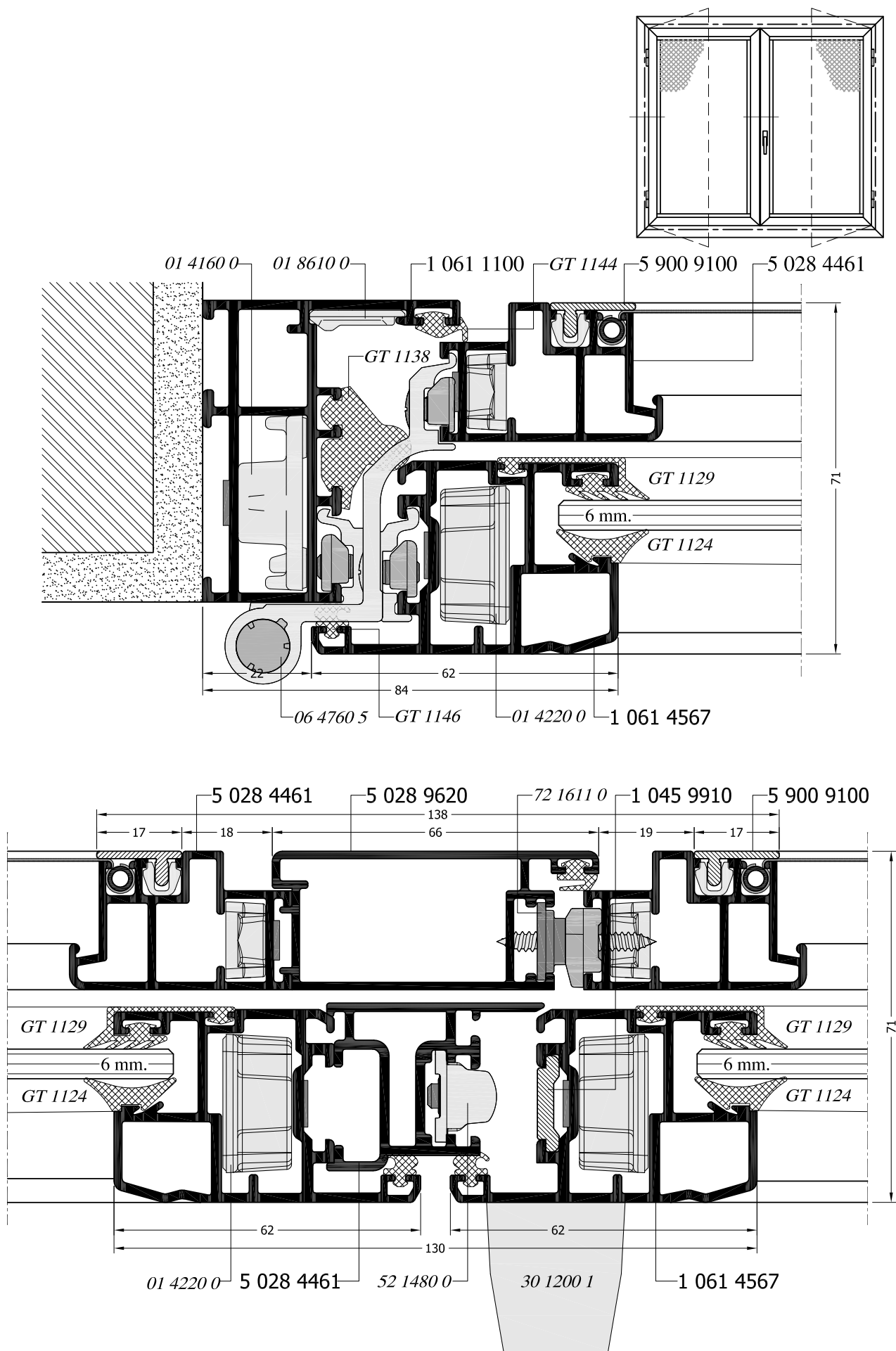
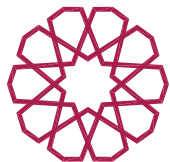


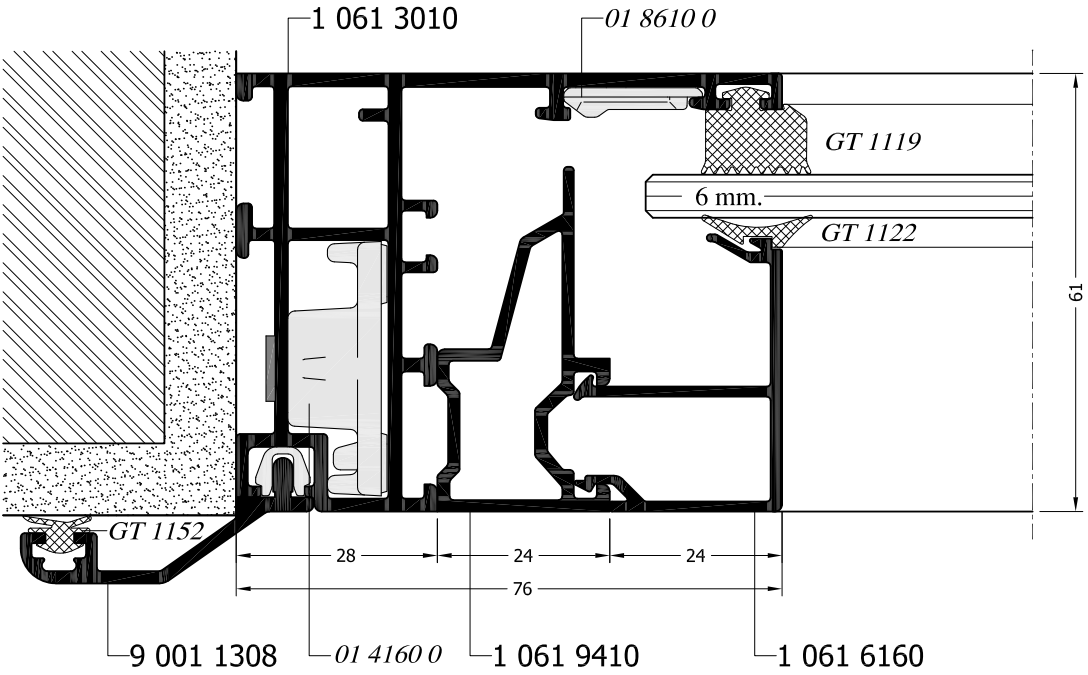
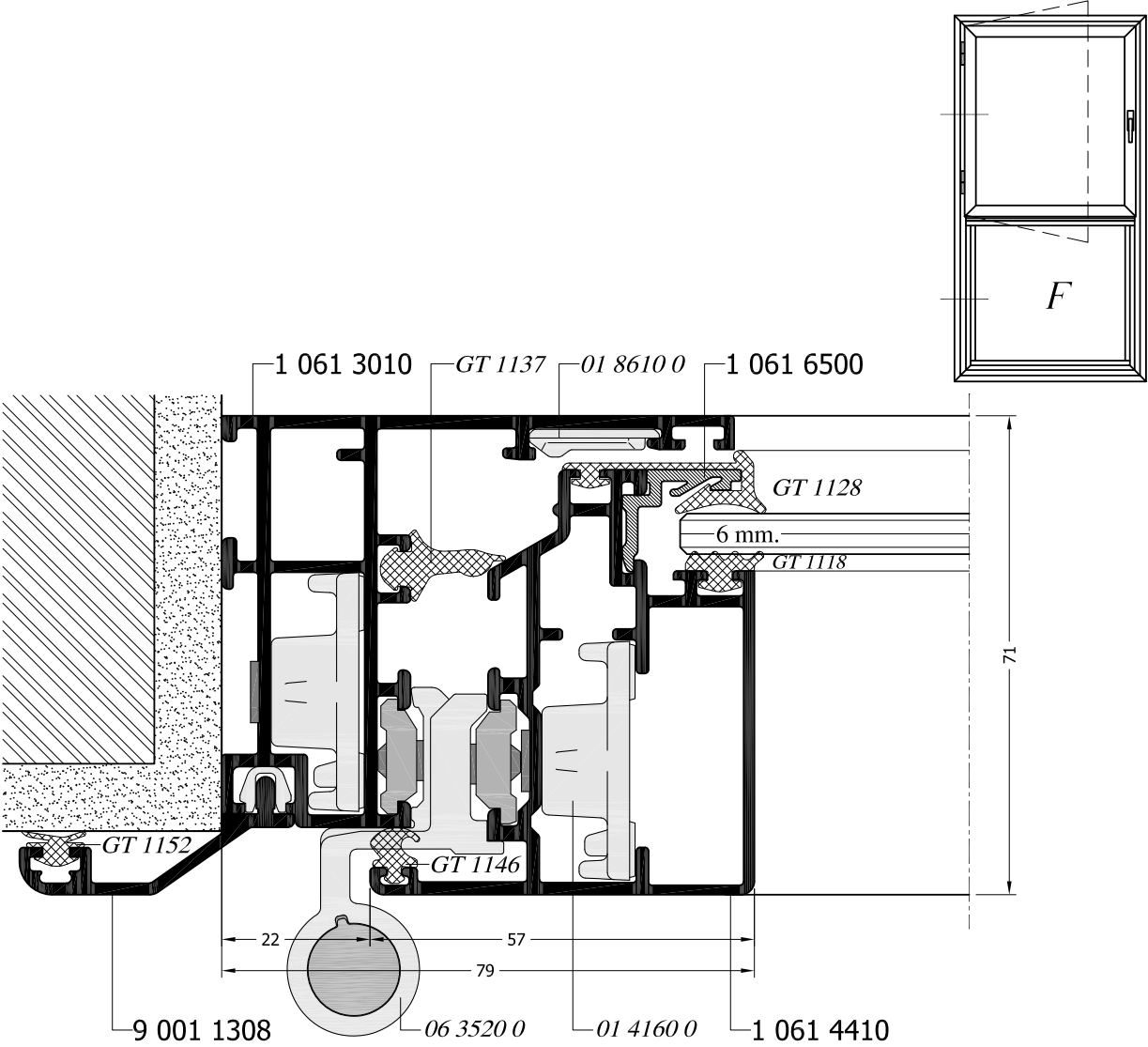
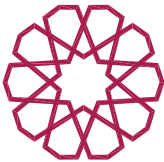


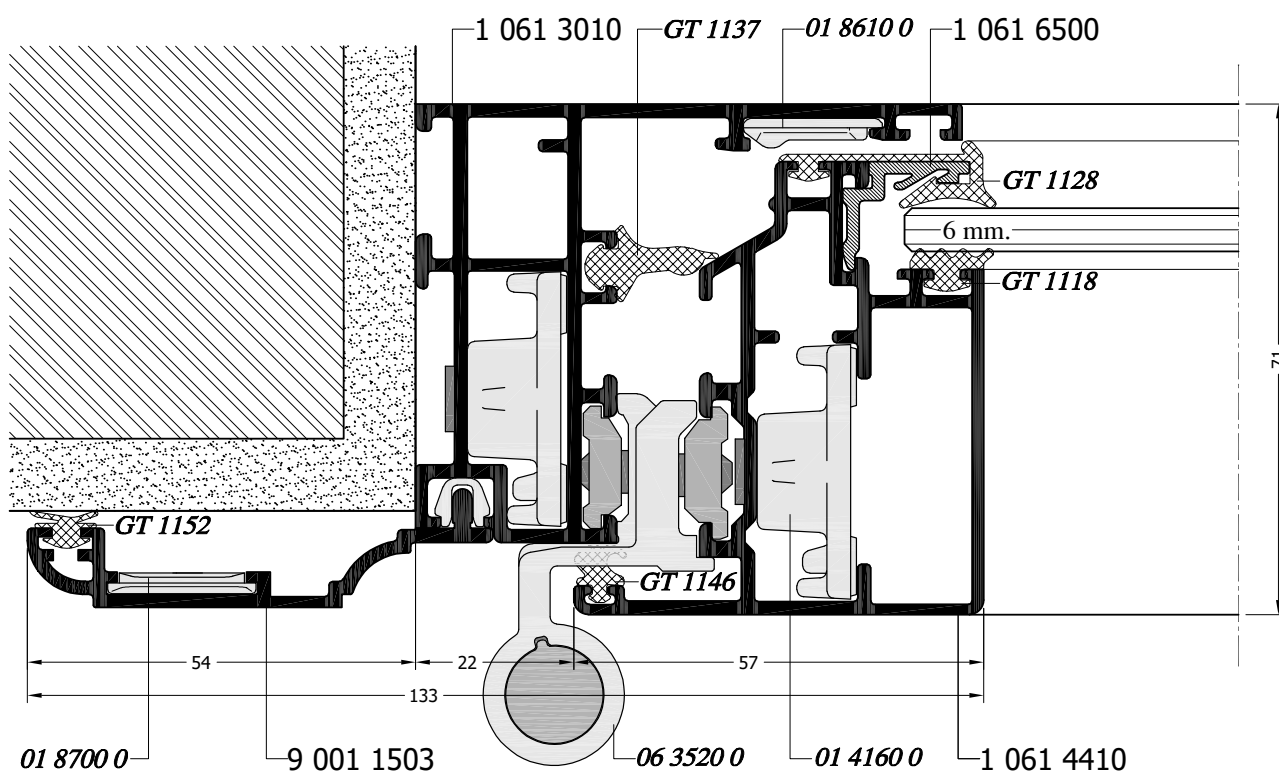
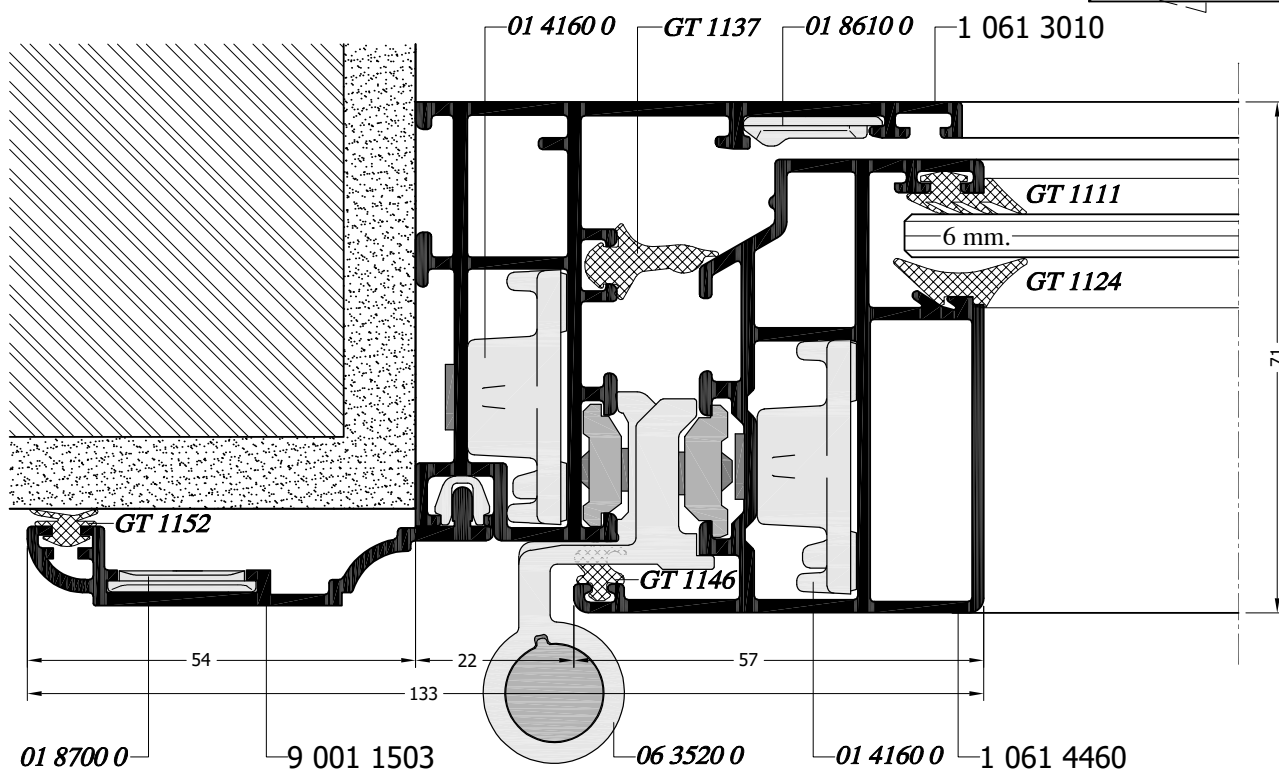
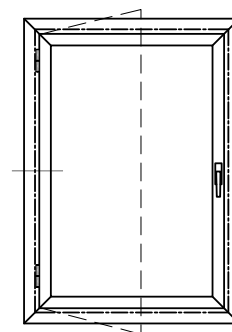
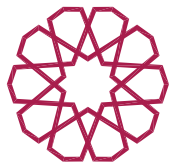


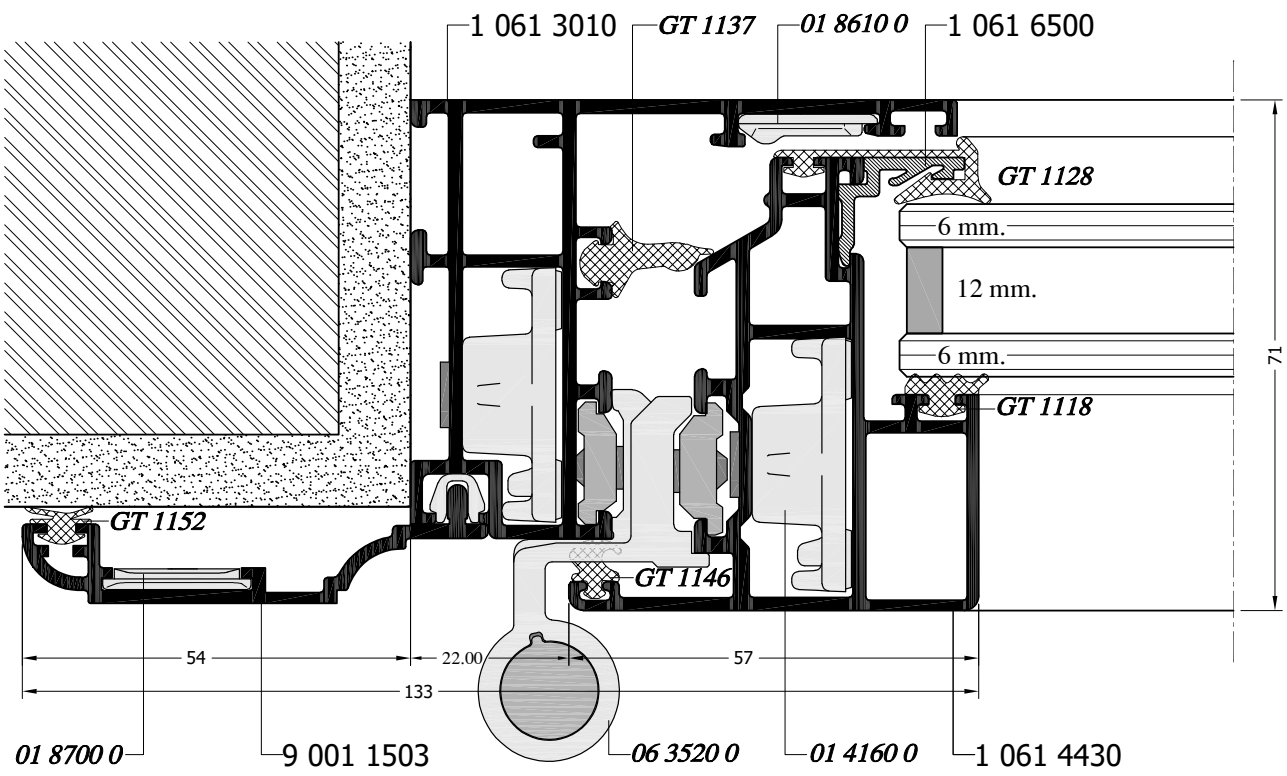
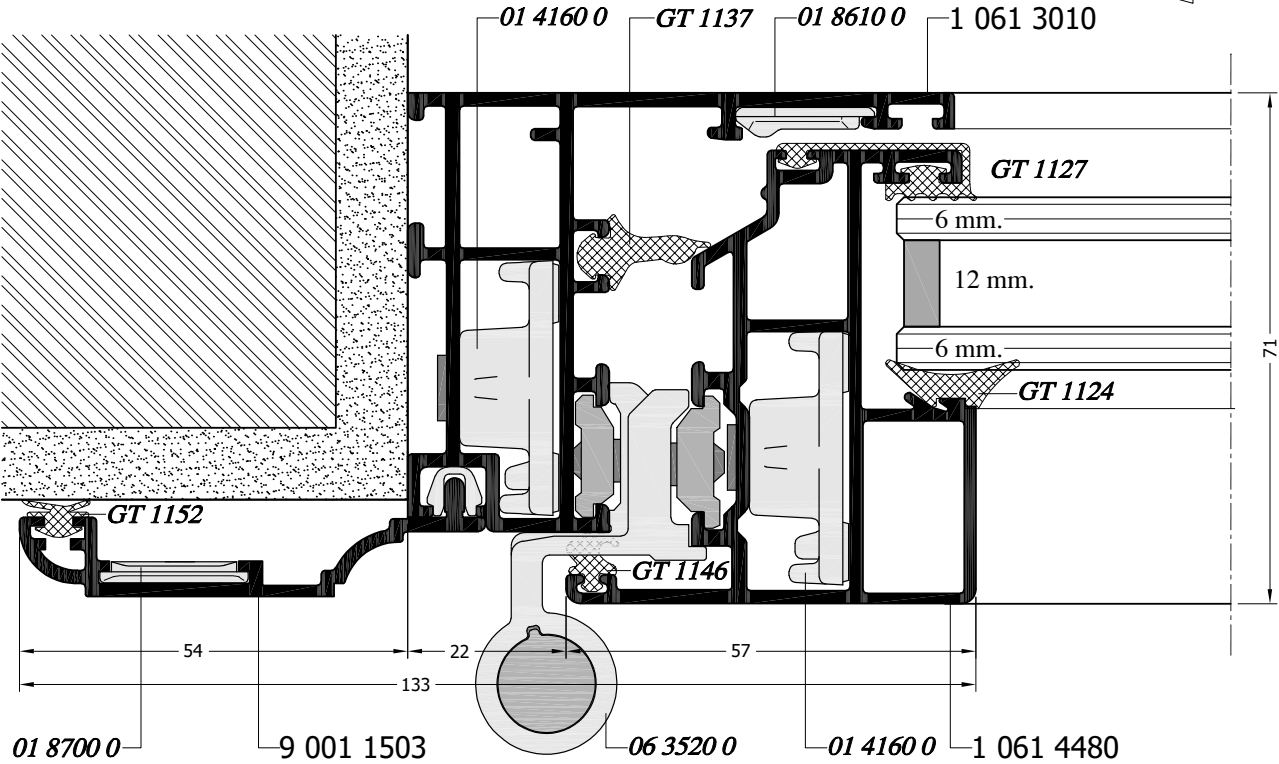
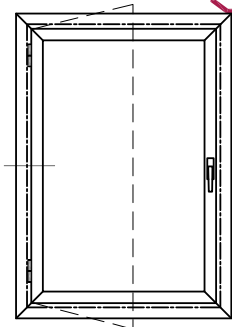


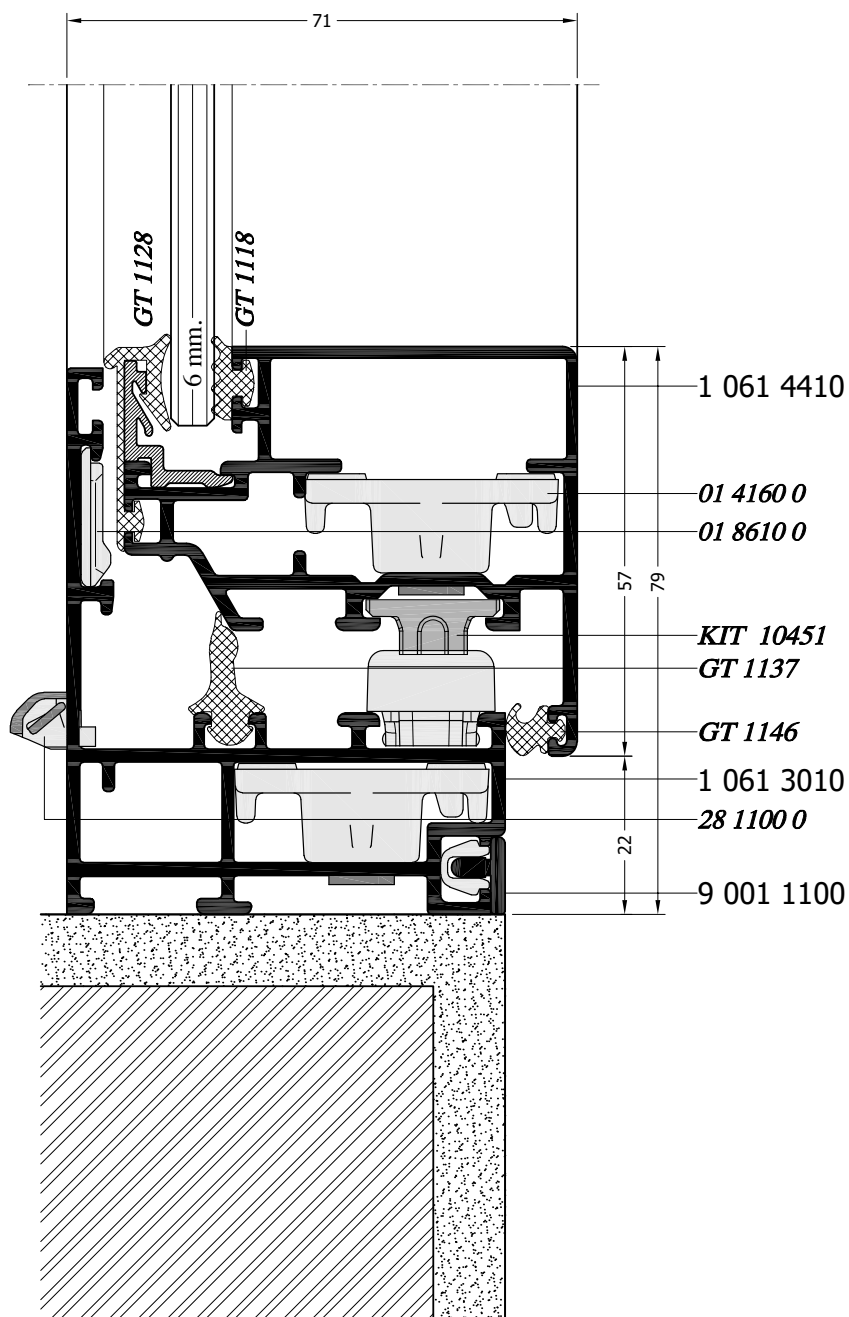
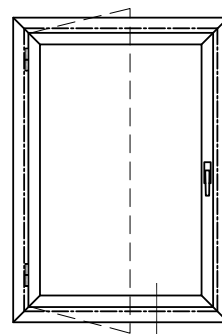
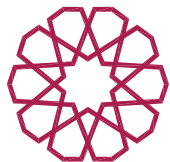


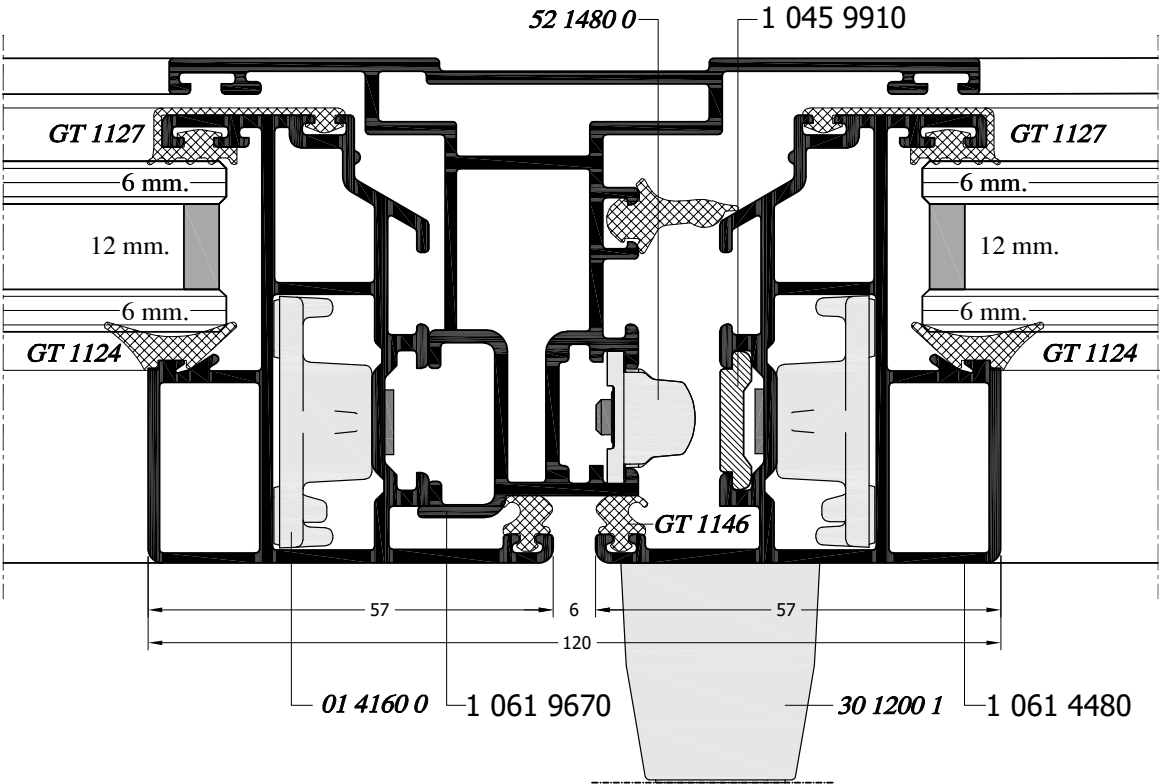
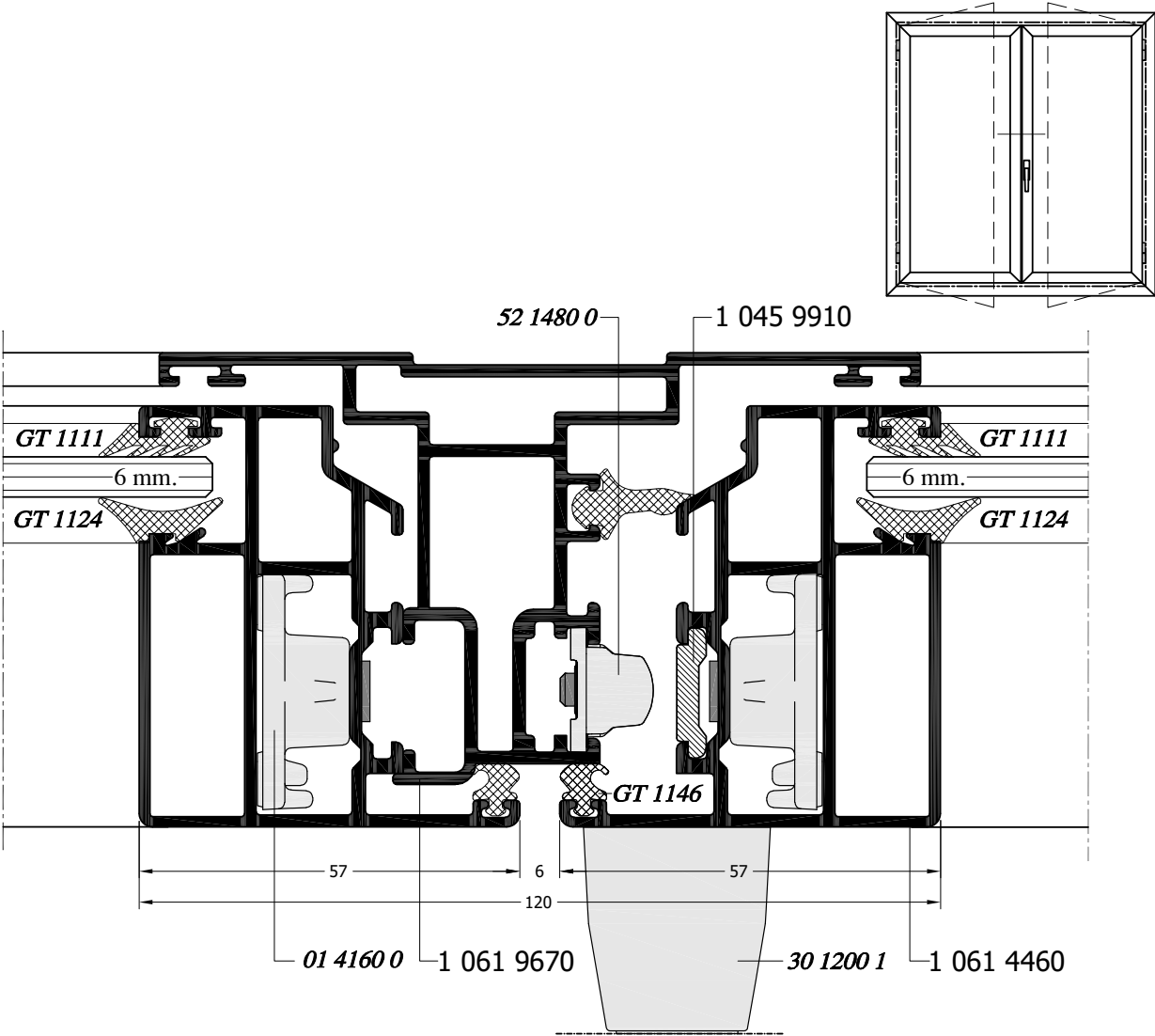
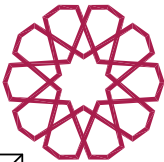












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