



Machines & Aluminium Center
مركز ماكينات ومستلزمات الألومنيوم

SAMBA 40

Hinged System Catalogue



2026

Ver.04

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
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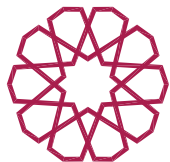
The profiles shown in this catalogue are patented.

The items shown are the exclusive property of **MACHINES & ALUMINIUM CENTER** and may not be even partially reproduced without **MACHINES & ALUMINIUM CENTER** authorization.

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

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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:

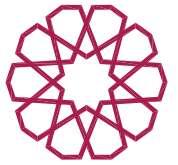
All systems are designed to use most of standard hardware. The hardware should be selected according to the minimum requirements mentioned in the system catalog.

Fixing elements:

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



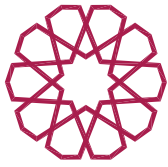
Technical Features

- In all systems there are varieties available in types and dimensions.
- Tolerances in weights & 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

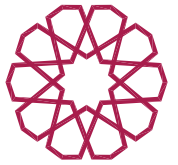
pretreatment and the use of enhanced chemical pretreatment process, with high etching degree, in accordance to QUALICOAT specifications, as well as a full control on the painting processes and polymerization during the whole surface treatment procedure. Therefore, through a unique blending system, stringent 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.

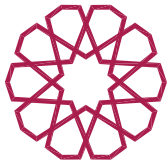
Standard Durable Class 1: Up to 10 years

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



hereby authorises

MACHINES & ALUMINIUM CENTER (ALWAN)
213, SECOND INDUSTRIAL ZONE
6TH OF OCTOBER CITY
GIZA
Egypt

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



CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that Quality Management System of

Machines & Aluminium center

Office: Street No.75, Piece No. 32, 1st Industrial Zone, 6th of
October City, Egypt.
Site: Piece No. 213, 2nd Industrial Zone, 6th of October city, Egypt.

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



CERTIFICATE OF REGISTRATION

INTERCERT hereby certifies that the Environmental Management System of

Machines & Aluminium center

Office: Street No.75, Piece No. 32, 1st Industrial Zone, 6th of
October City, Egypt.
Site: Piece No. 213, 2nd Industrial Zone, 6th of October city, Egypt.

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

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CERTIFICATE OF REGISTRATION

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

Machines & Aluminium center

Office: Street No.75, Piece No. 32, 1st Industrial Zone, 6th of
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Site: Piece No. 213, 2nd Industrial Zone, 6th of October city, Egypt.

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

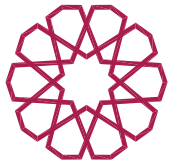
Recertification Date: 06-06-2024

Registration Number: IC-OS-2106053

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Interpon D Approved Applicator



Series D1000

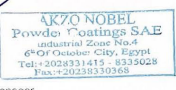
MACHINES AND ALUMINIUM CENTER (Alwan)

213, 2nd industrial Zone, 6th of October City, Giza
Egypt

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



Wael Mahmoud
Sales and Marketing Manager
North Africa & Levant

12/10/2022
AkzoNobel Industrial Paints





Interpon D Approved Applicator



Series D2000

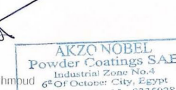
MACHINES AND ALUMINIUM CENTER (Alwan)

213, 2nd industrial Zone, 6th of October City, Giza
Egypt

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



Wael Mahmoud
Sales and Marketing Manager
North Africa & Levant

12/10/2022
AkzoNobel Industrial Paints



Certificate of Approval

Machines & Aluminium Center (ALWAN)

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)



Authorized Signatory
Jotun Powder Coatings UAE (LLC)



Certificate of Approval

Machines & Aluminium Center (ALWAN)

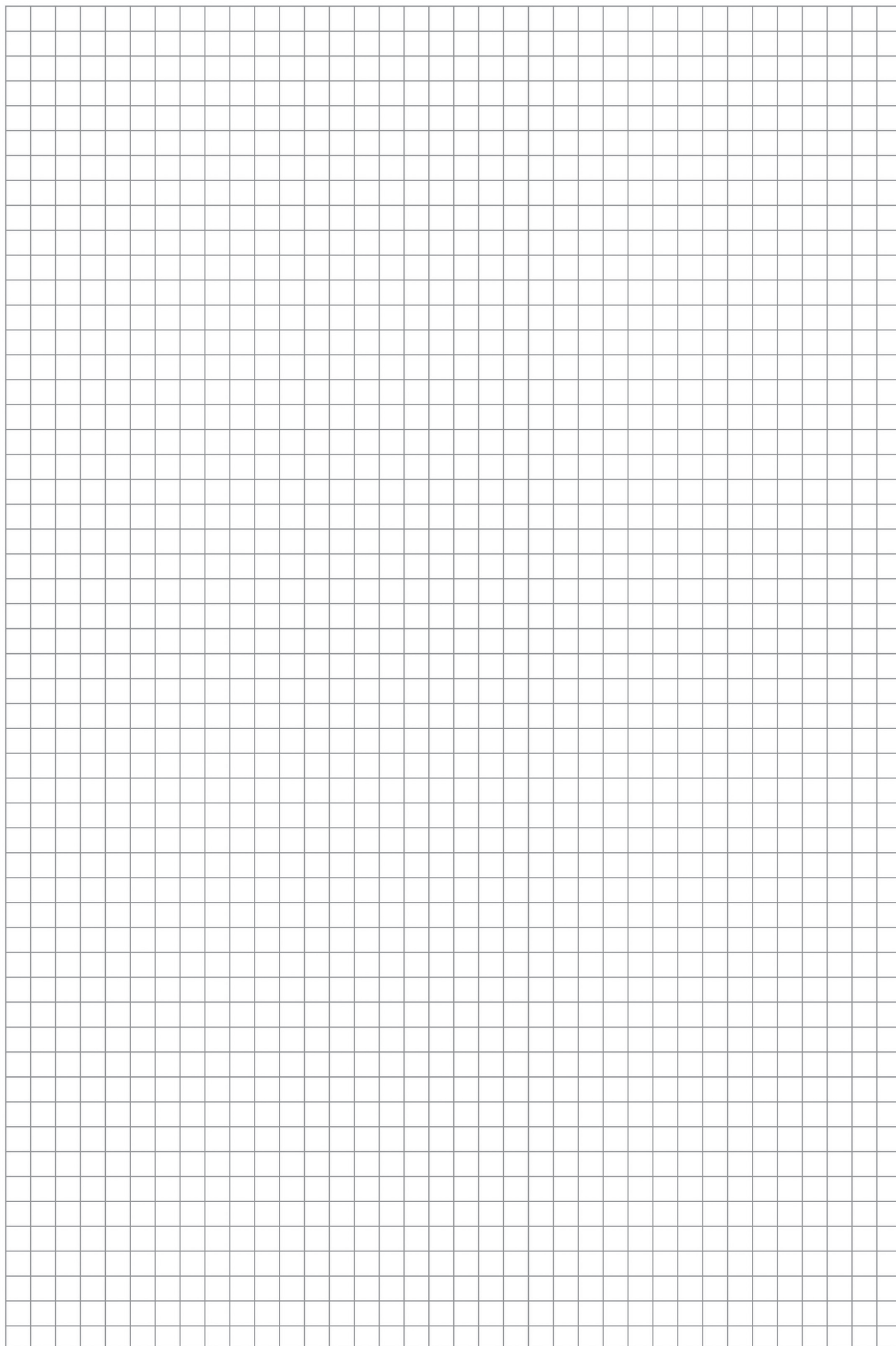
is certified as an Approved Applicator to coat
Jotun Durasol
a product from Jotun Powder Coatings

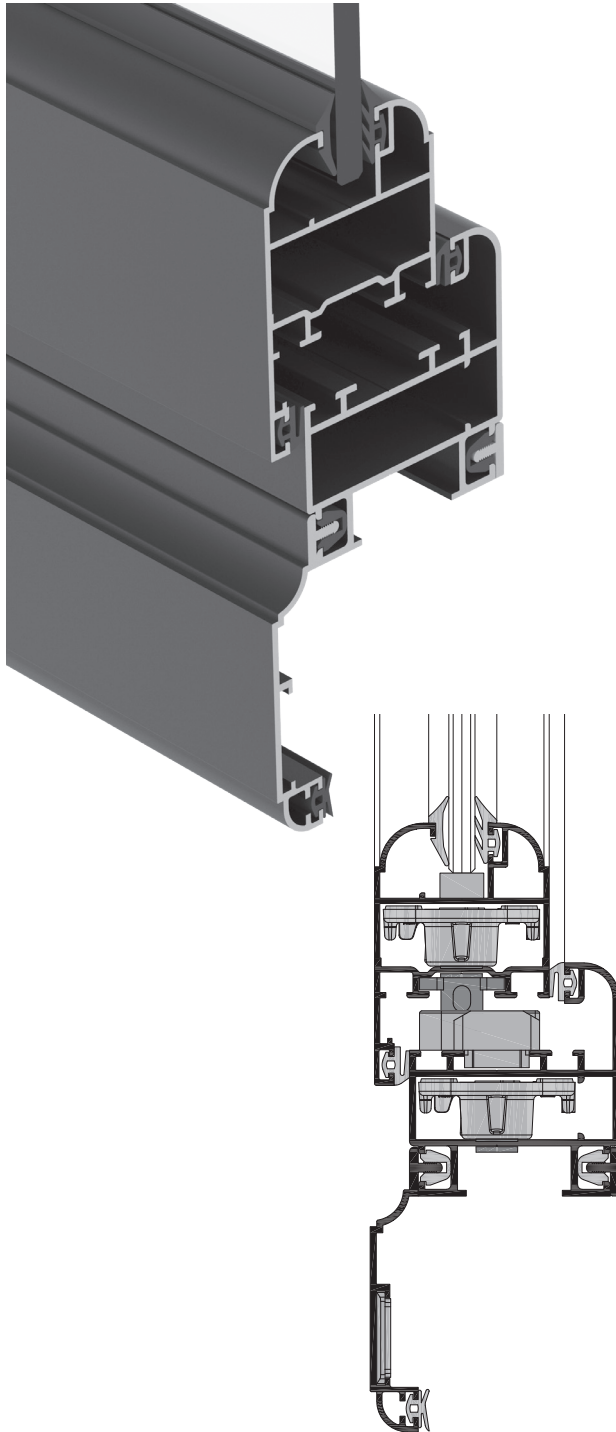
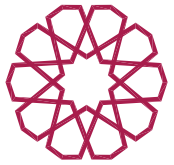
This Company fulfils the requirements set by Jotun Powder Coatings for pre-treatment and application of powder coatings. These include having the necessary equipment, process controls and technical knowledge to comply with Jotun Powder Coatings' standards.

December 31, 2025
(Certificate valid until above date)



Authorized Signatory
Jotun Powder Coatings UAE (LLC)





- 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.

Frame Height

47 mm. to 101 mm.

Sash Depth

40 mm.

Sash Height

67 mm. to 83 mm.

Max Glass Thickness

Up to 18 mm.

Max Sash Weight

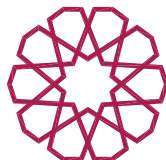
Up to 90 kg.

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

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 CP0025/6, 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

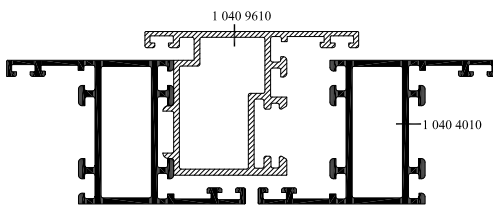
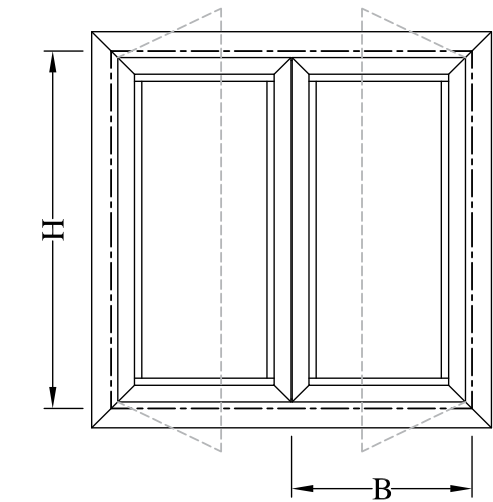
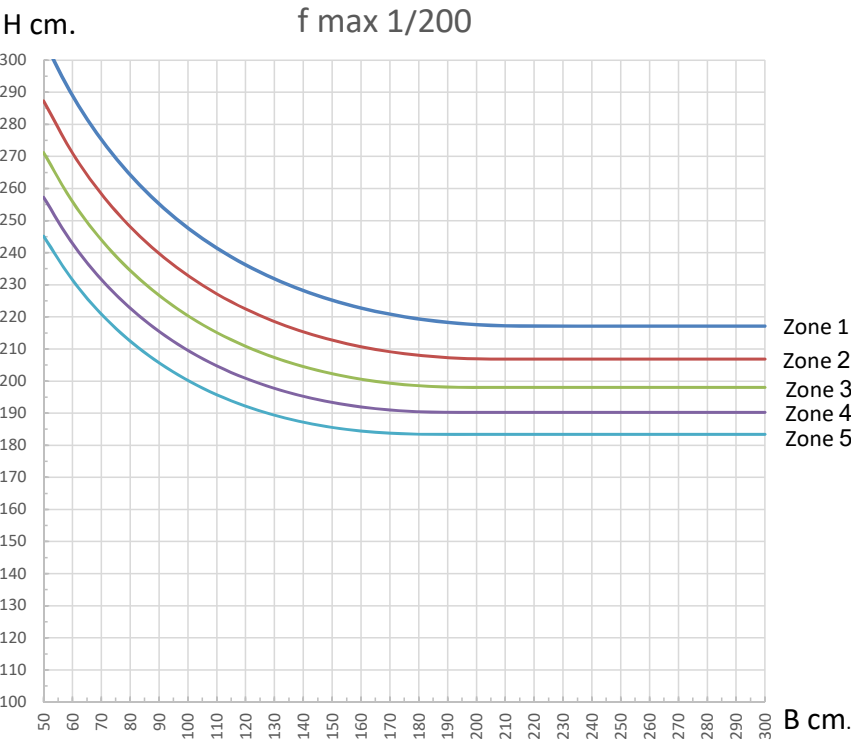
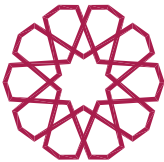
AIR PERMEABILITY:	CLASS 4
WATERTIGHTNESS:	CLASS E1050
RESISTANCE TO WIND LOAD:	CLASS C4

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.

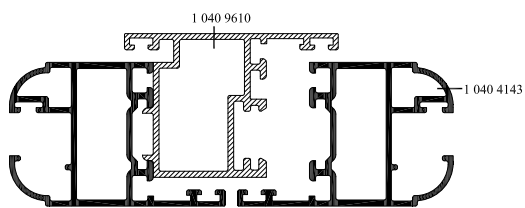
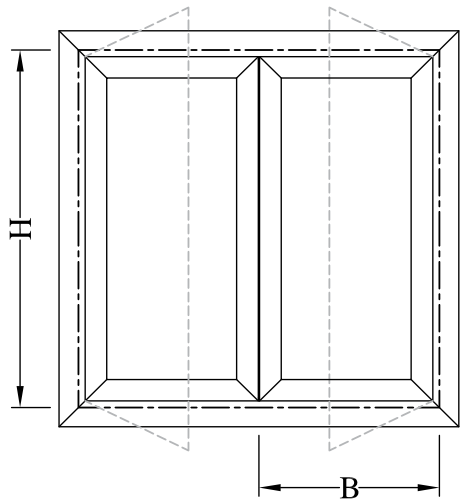
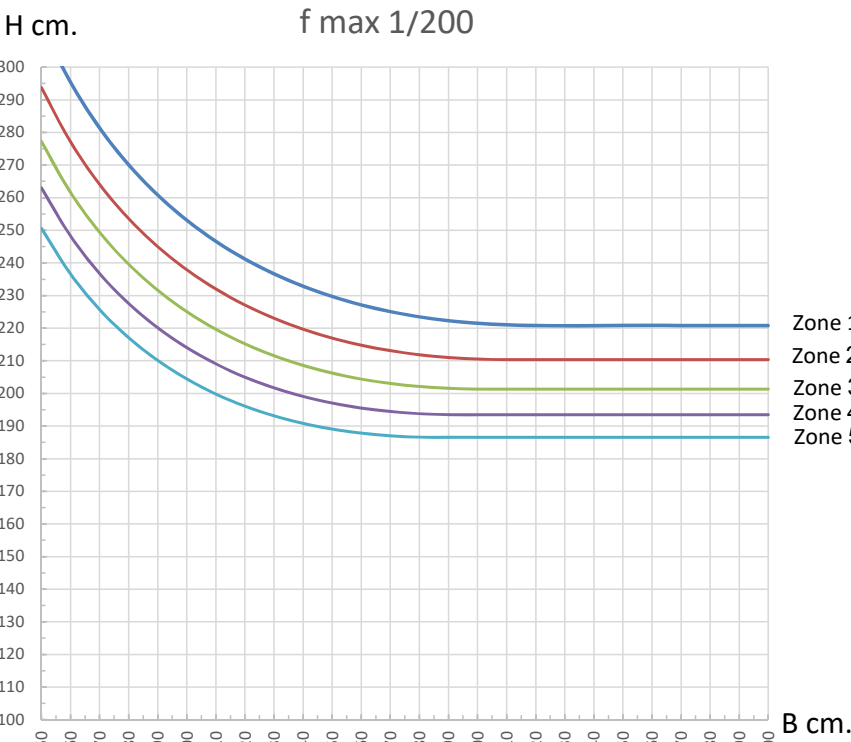
Faenza, February 12, 2016



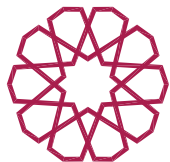
ECO Certificazioni S.p.A. • Via Mengolina, 33
48018 Faenza (RA) - ITALY
Tel. +39 0546 624911 • Fax +39 0546 624922
E-mail: info@eco-cert.it • www.ecocertificazioni.eu



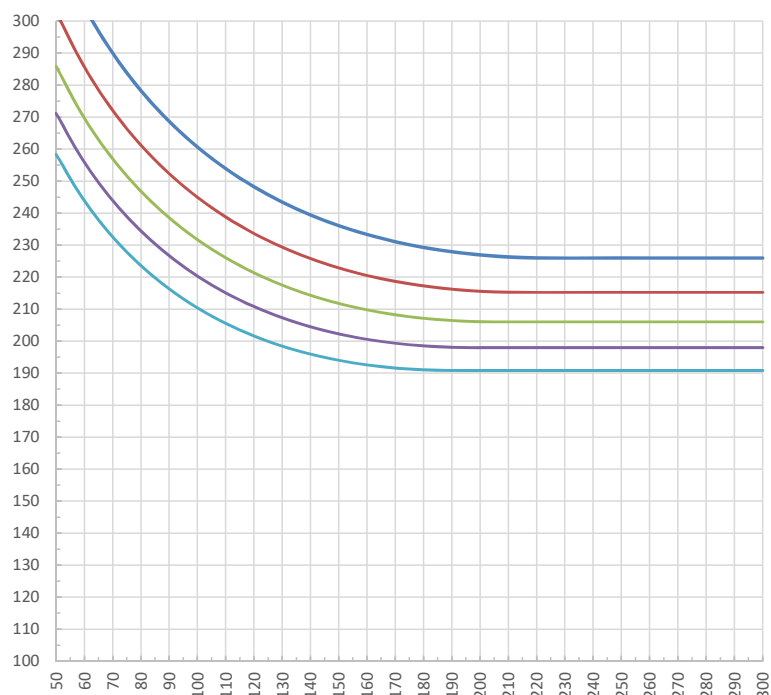
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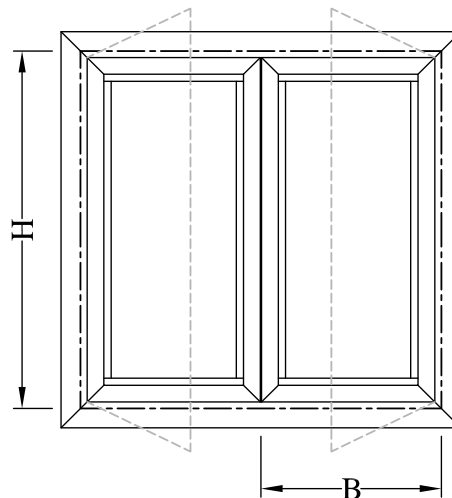
$I_x = 25.35 \text{ cm}^4$



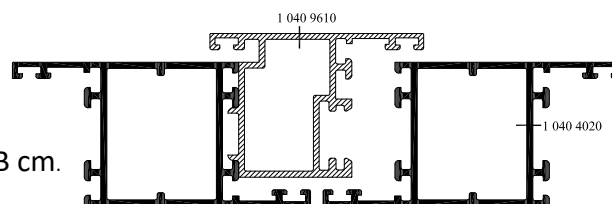
H cm. f max 1/200



Zone 1
Zone 2
Zone 3
Zone 4
Zone 5

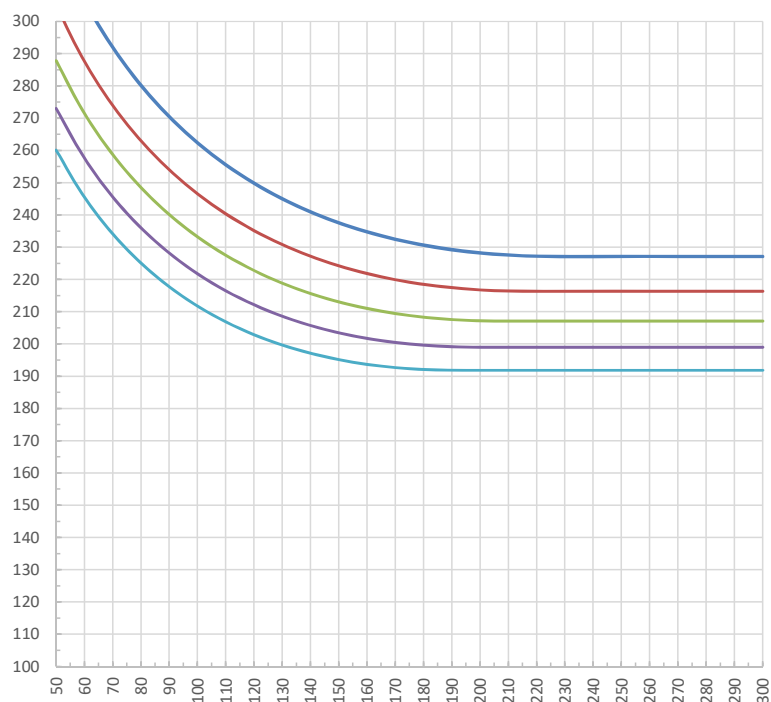


B cm.

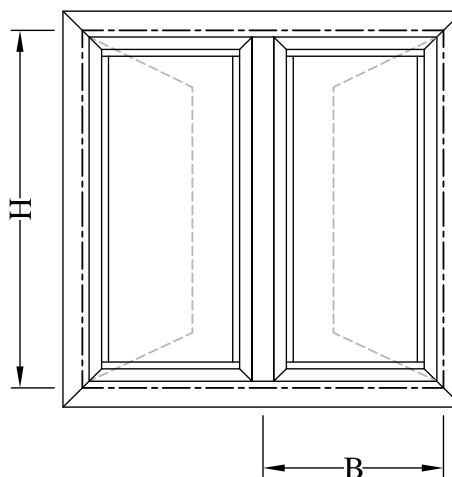


$$I_x = 27.80 \text{ cm}^4$$

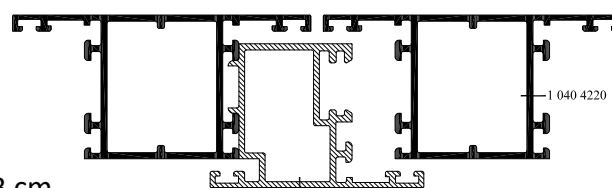
H cm. f max 1/200



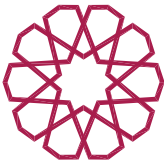
Zone 1
Zone 2
Zone 3
Zone 4
Zone 5



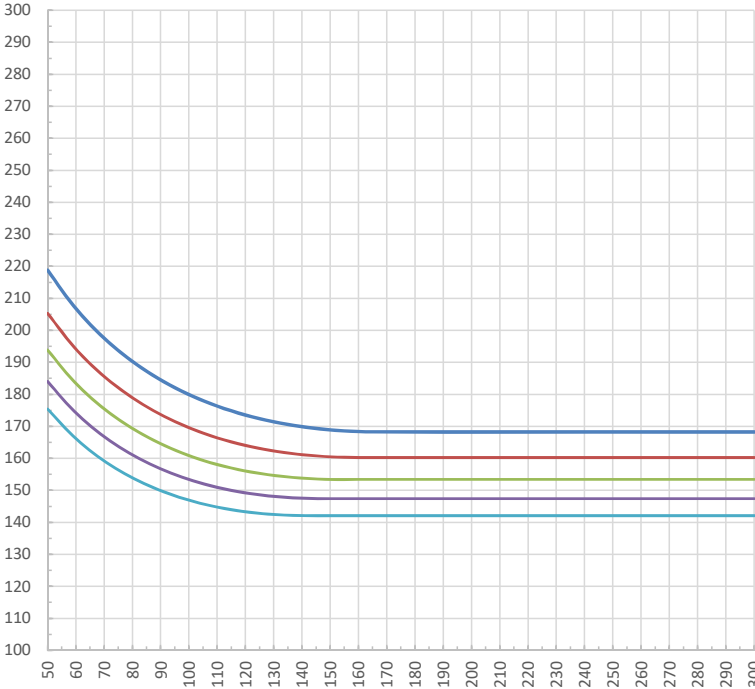
B cm.



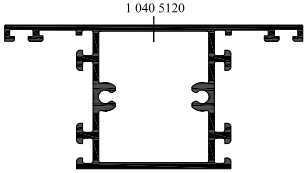
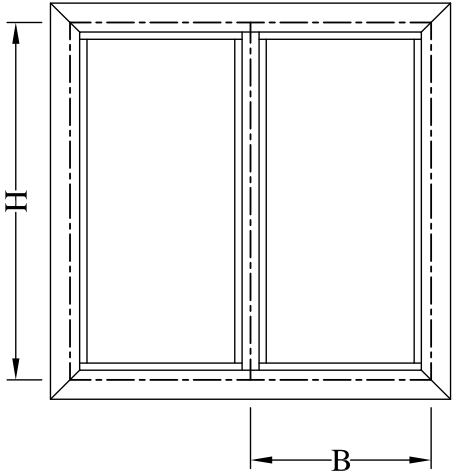
$$I_x = 28.39 \text{ cm}^4$$



H cm. f max 1/200

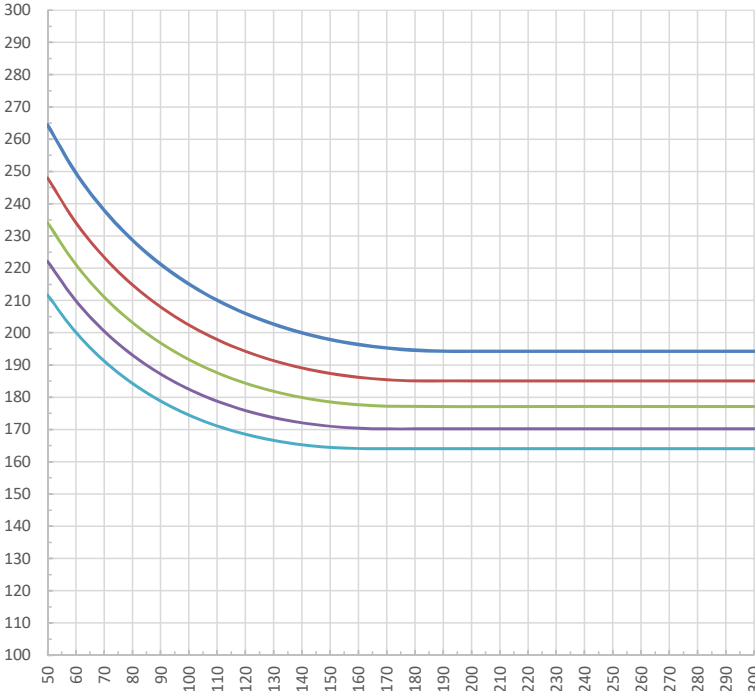


Zone 1
Zone 2
Zone 3
Zone 4
Zone 5

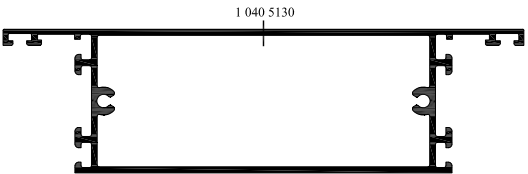
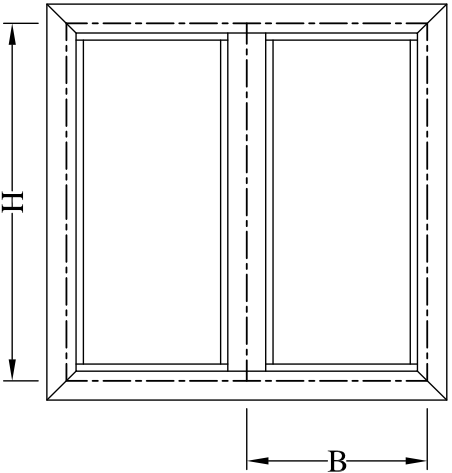


$I_x = 8.55 \text{ cm}^4$

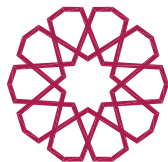
H cm. f max 1/200

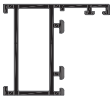
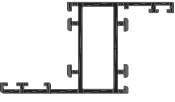
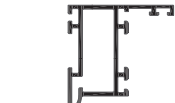
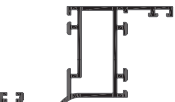
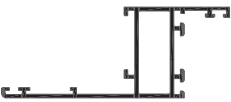
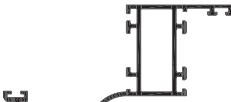
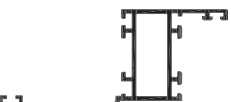
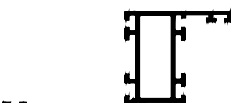
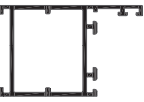
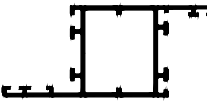


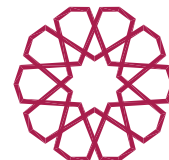
Zone 1
Zone 2
Zone 3
Zone 4
Zone 5

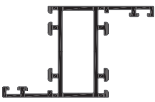
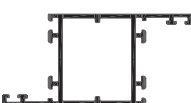
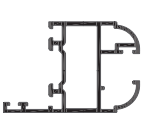
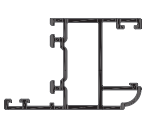
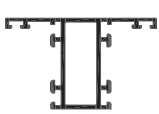
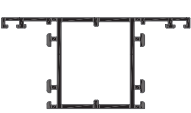
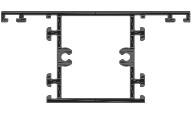


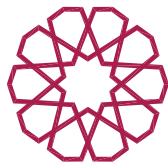
$I_x = 15.19 \text{ cm}^4$



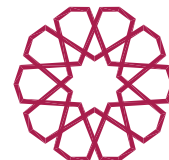
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	10401100	Frame Profile	0.667	254	5.57	3.40	24
	10401130	Frame Profile	0.875	369	7.88	9.42	24
	10401131	Frame Profile	0.918	369	10.62	9.56	24
	10401132	Frame Profile	0.937	381	10.44	11.45	24
	10401150	Frame Profile	0.834	408	18.89	7.87	25
	10401152	Frame Profile	1.055	442	12.75	25.48	25
	10401153	Frame Profile	1.034	457	12.29	24.96	25
	10401158	Frame Profile	1.016	437	11.69	23.49	25
	10401200	Frame Profile	0.813	287	7.59	9.17	26
	10401230	Frame Profile	1.026	402	9.86	19.18	26
	10401420	Frame Profile	0.953	373	9.83	7.33	26



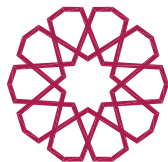
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	10402062	Frame Profile	0.940	355	11.20	6.06	26
	10404010	Leaf Profile	0.832	344	7.34	6.75	27
	10404020	Leaf Profile	0.978	377	9.31	15.29	27
	10404143	Leaf Profile	0.813	340	6.46	7.09	27
	10404153	Leaf Profile	0.739	327	6.66	6.64	27
	10404210	Leaf Profile	0.832	344	7.34	6.75	28
	10404220	Leaf Profile	0.978	377	8.74	15.28	28
	10405120	Transom Profile	1.030	377	8.55	15.83	28
	10405130	Transom Profile	1.493	501	15.19	101.08	29
	10405330	Bottom rail	1.647	540	17.46	121.74	29
	10406170	Glass Beading Profile	0.230	153	0.62	0.55	29
	10406230	Glass Beading Profile	0.245	161	0.83	0.64	29



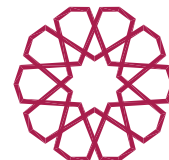
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	10409430	Insert Profile	0.494	265	3.71	2.02	29
	10409610	Insert Profile	0.875	319	7.19	6.80	29
	1 045 9910	Control Rod	0.146	48.00	0.19	0.01	29
	50254810	Fly Screen Leaf Profile	0.165	79	0.15	0.21	30
	50254830	Fly Screen Leaf Profile	0.307	145	0.69	0.40	30
	50254832	Fly Screen Leaf Profile	0.420	158	0.81	1.09	30
	50281210	Fly Screen Frame Profile	0.634	248	7.89	3.09	30
	50284310	Fly Screen Leaf Profile	0.477	165	1.02	2.11	30
	50284311	Fly Screen Leaf Profile	0.514	179	1.40	2.23	30
	50284460	Fly Screen Leaf Profile	0.630	195	2.08	4.65	30
	50284461	Fly Screen Leaf Profile	0.618	200	1.91	4.00	30
	50289210	Fly Screen Leaf Profile	0.615	230	4.89	1.62	31
	50289610	Insert Profile	0.302	186	1.06	0.41	31

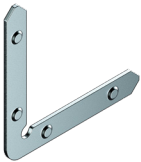


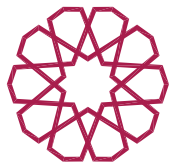
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	50289620	Insert Profile	0.672	250	3.13	10.51	31
	59005020	Fly Screen Transom Profile	0.375	107	3.13	0.07	31
	59005410	Fly Screen Transom Profile	0.610	198	5.99	5.70	31
	59009100	Additional Profile	0.100	53	0.01	0.08	31
	9 001 1100	Additional Profile	0.092	41.99	0.01	0.01	32
	9 001 1300	Additional Profile	0.240	115.66	1.66	0.03	32
	9 001 1302	Additional Profile	0.308	153.80	2.05	0.24	32
	9 001 1303	Additional Profile	0.285	156.35	1.95	0.17	32
	9 001 1304	Additional Profile	0.259	130.82	1.81	0.05	32
	9 001 1305	Additional Profile	0.263	139.31	1.76	0.05	32
	9 001 1308	Additional Profile	0.291	140.07	1.89	0.27	32
	9 001 1500	Additional Profile	0.348	183.22	6.10	0.03	33
	9 001 1502	Additional Profile	0.424	204.48	6.64	0.38	33

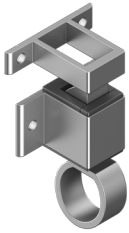
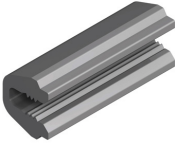
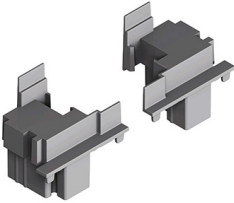
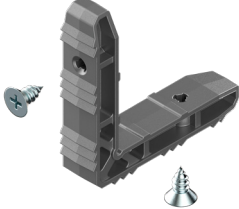
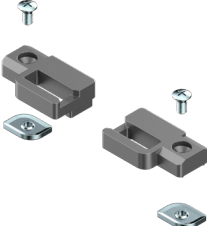
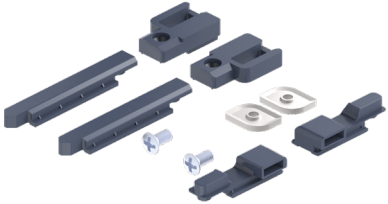


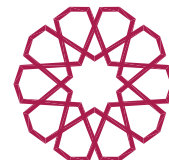
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	9 001 1503	Additional Profile	0.401	219.02	7.49	0.32	33
	9 001 1504	Additional Profile	0.370	191.22	6.73	0.07	33
	9 001 1505	Additional Profile	0.383	194.11	6.40	0.07	33
	9 001 1507	Additional Profile	0.383	186.07	6.30	0.04	33
	9 001 1700	Additional Profile	0.418	215.22	11.29	0.04	33
	9 001 1702	Additional Profile	0.473	232.62	11.31	0.43	33
	9 002 1200	Additional Profile	0.181	81.24	0.01	0.11	32

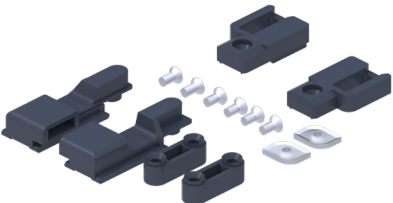
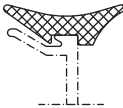
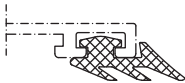
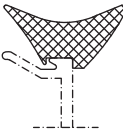
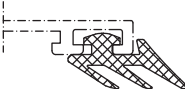
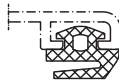
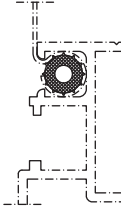
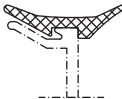
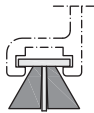


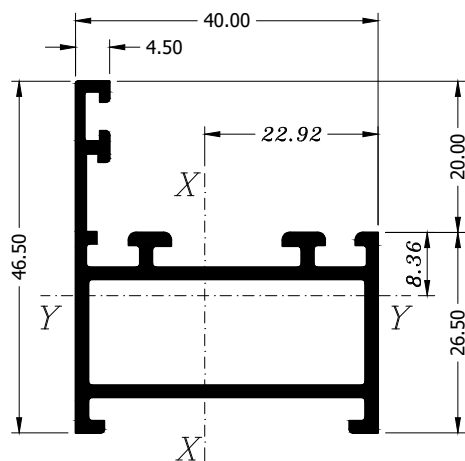
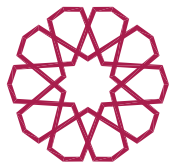
 01 4110 0	Corner Joint Material: Aluminium Finish: Raw	 28 1100 0	Drainage cap Material: Polyamide Finish: Black
 01 4160 0	Corner Joint Material: Aluminium Finish: Raw	 30 1200 1	Omega Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL
 01 7710 0	Alignment Angle Material: Steel Finish: Galvanized	 30 1700 1	Sigma Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL
 01 8700 0	Alignment Angel Material: Polyamide Finish: Black	 30 1750 1	Gama Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL
 06 2620 0 /1	2 Wings Hinge Material: Aluminium Finish:Raw, Anodized, RAL	 30 1790 0	Delta Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL
 10 1920 0	Balance Arm (Pair) Material: Aluminium Finish: Anodized, RAL	 30 2740 0	Aton Cremone Handle Material: Aluminium Finish:Raw, Anodized, RAL



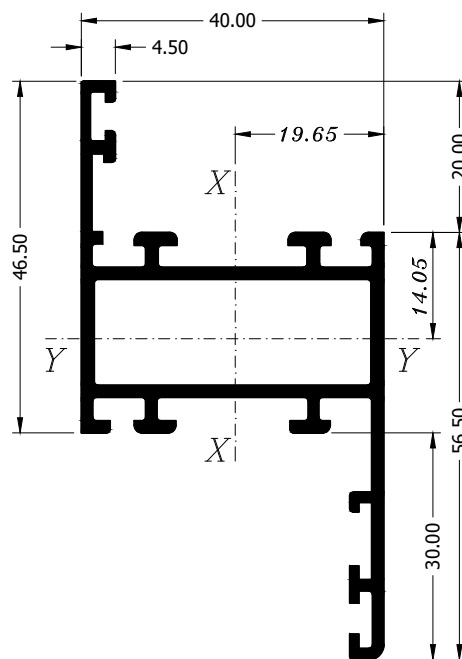
 34 1050 0	Finger Catch Material: Aluminium Finish:Raw, Anodized, RAL	 50 8800 0	Connection Kit Material: Polyamide Finish: Black
 36 1220 0	Door Handle Material: Aluminium Finish:Raw, Anodized, RAL	 52 1450 0	Bolt Material: Polyamide Finish: Black
 50 1150 0	Additional Locking Point Material: Polyamide Finish: Black	 60 0500 0	Clip Material: Polyamide Finish: Black
 50 1160 1	Additional Locking Point Material: Zama Finish: Galvanized	 62 1440 0	Plug Material: Polyamide Finish: Black
 50 1180 1	Additional Locking Point Material: Zama Finish: Galvanized	 72 1014 0	Flyscreen Corner Angle Material: Polyamide Finish: Black
 50 3350 0	Striker Material: Polyamide Finish: Black	 KIT 10401	Locking Point Kit Material: Polyamide Finish: Black



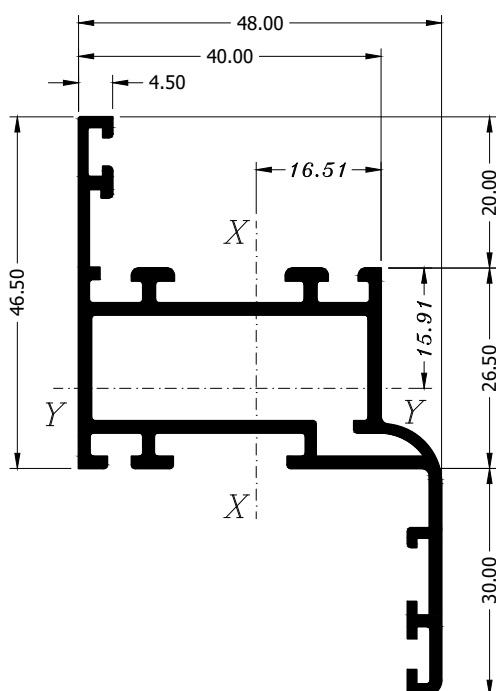
 KIT 10402	Locking Point Kit Material: Polyamide Finish: Black	 GT 1124	Glazing Gasket 4:5 mm. Material: E.P.D.M Finish: Black
 GT 1116	Glazing Gasket 2:4 mm. Material: E.P.D.M Finish: Black	 GT 1126	Glazing Gasket 6:7 mm. Material: E.P.D.M Finish: Black
 GT 1117	Glazing Gasket 4:6 mm. Material: E.P.D.M Finish: Black	 GT 1148	Striker Gasket Material: E.P.D.M Finish: Black
 GT 1121	Glazing Gasket 1:2 mm. Material: E.P.D.M Finish: Black	 GT 1181	FlyScreen Gasket Material: E.P.D.M Finish: Black
 GT 1122	Glazing Gasket 2:3 mm. Material: E.P.D.M Finish: Black	 WS 0710 F	Weather Strip 7x10 Material: Finish: Black



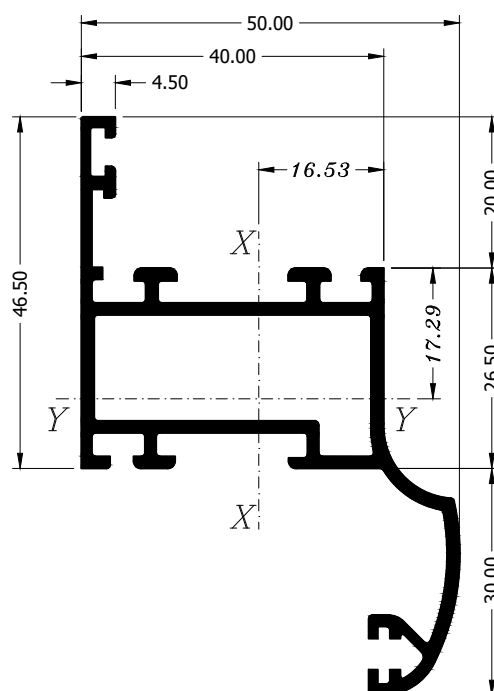
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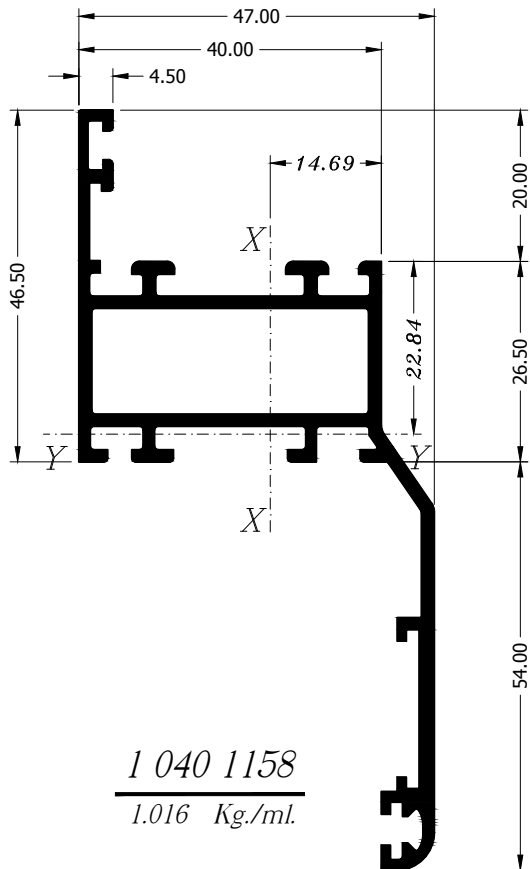
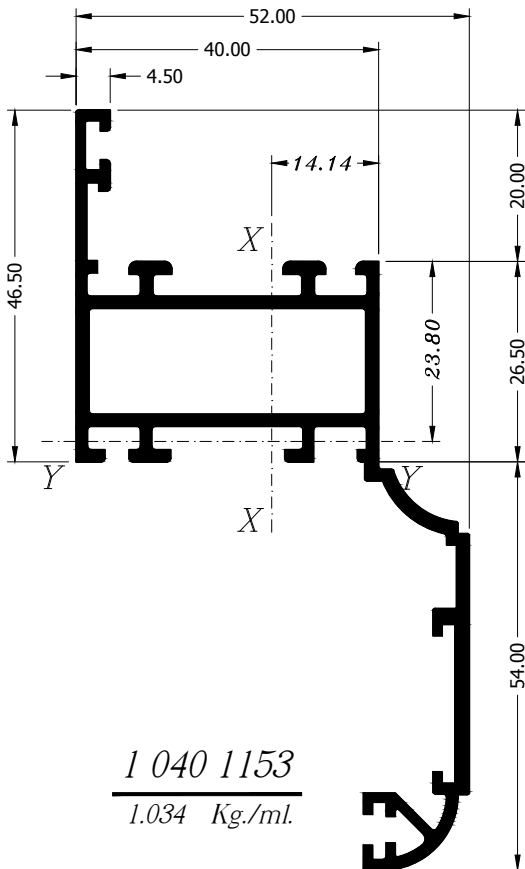
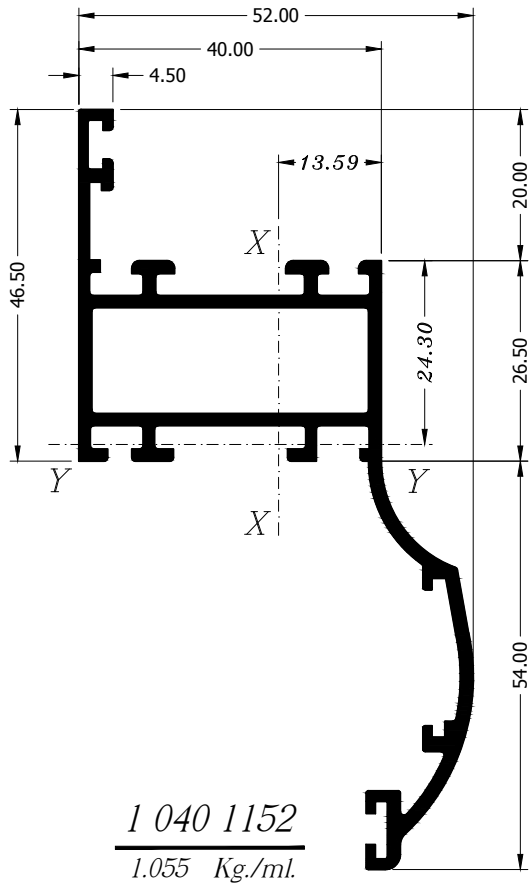
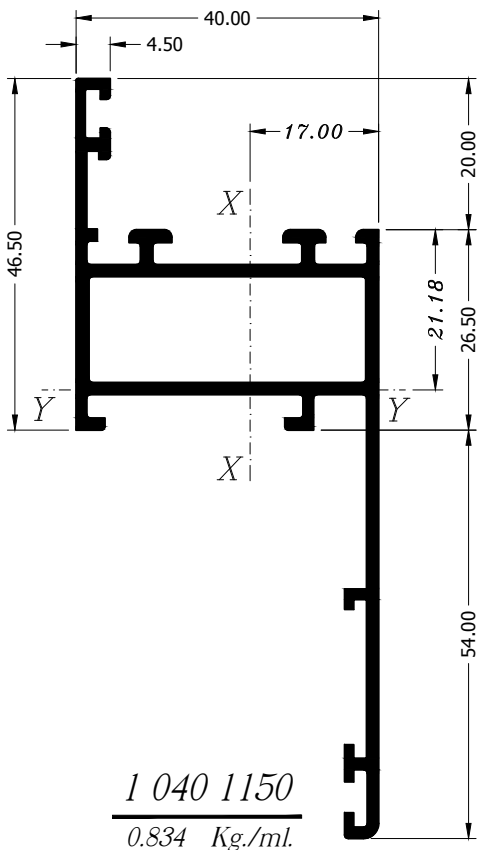
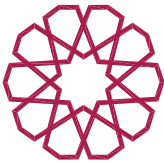
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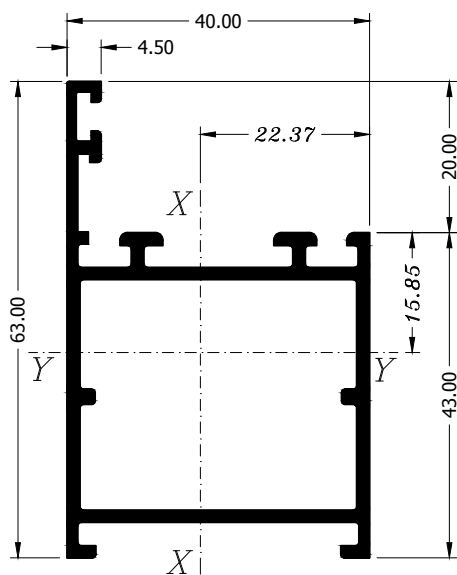
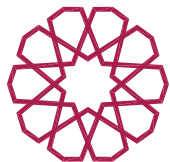


1 040 1131
0.918 Kg./ml.

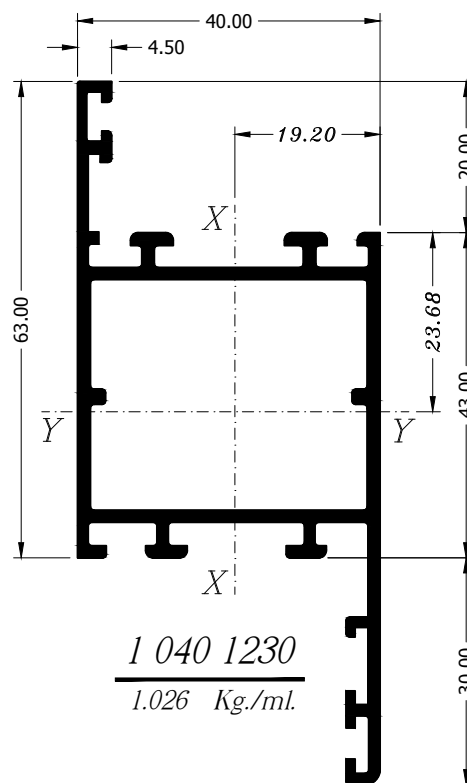


1 040 1132
0.937 Kg./ml.

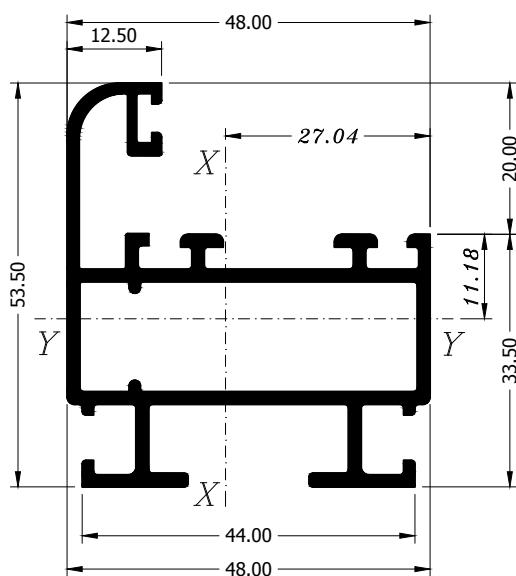




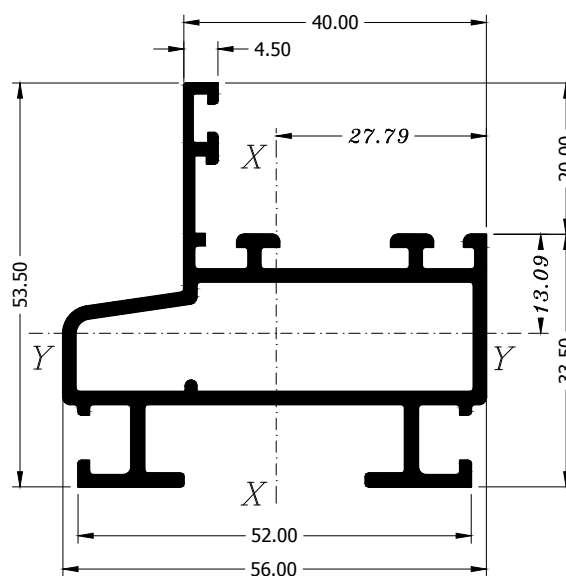
1 040 1200
0.813 Kg./ml.



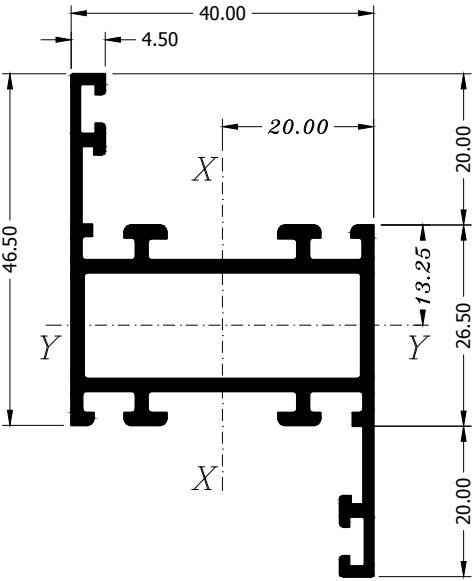
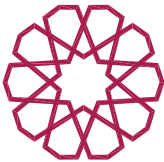
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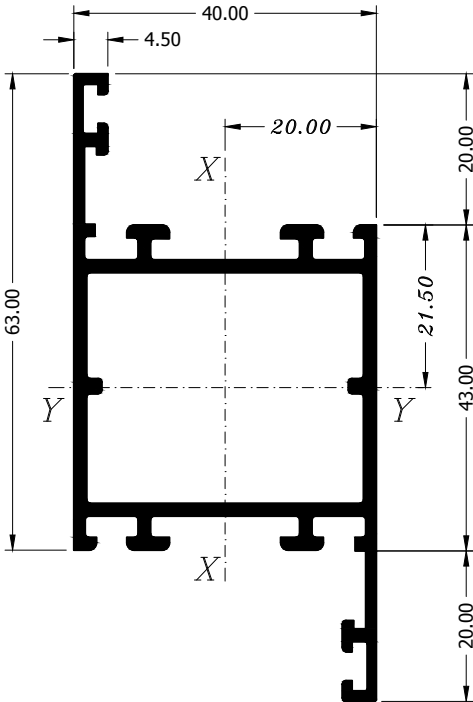
1 040 1420
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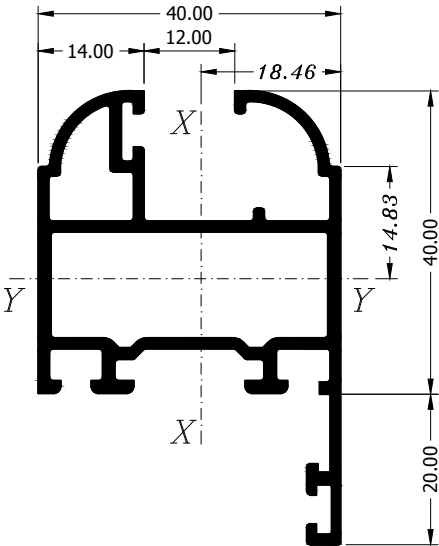
1 040 2062
0.940 Kg./ml.



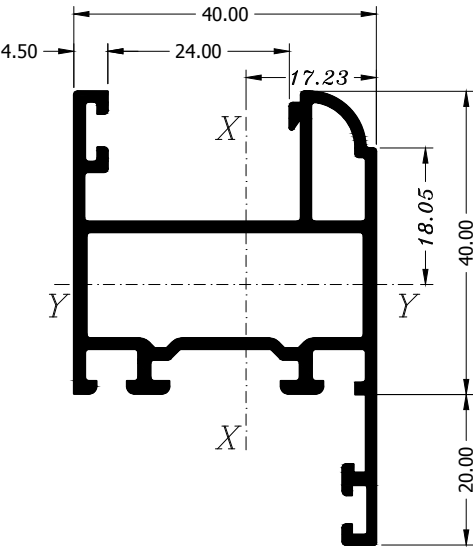
1 040 4010
0.832 Kg./ml.



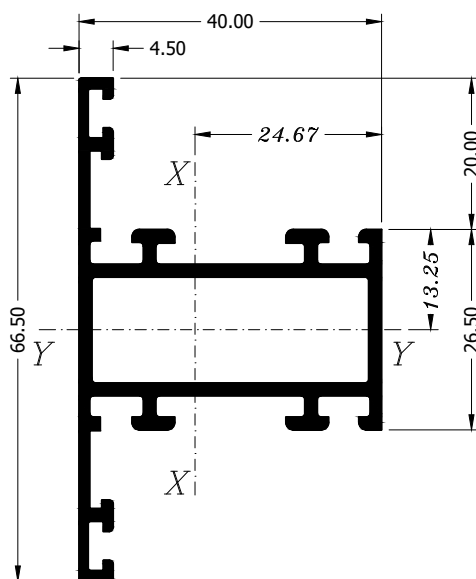
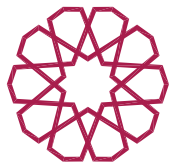
1 040 4020
0.978 Kg./ml.



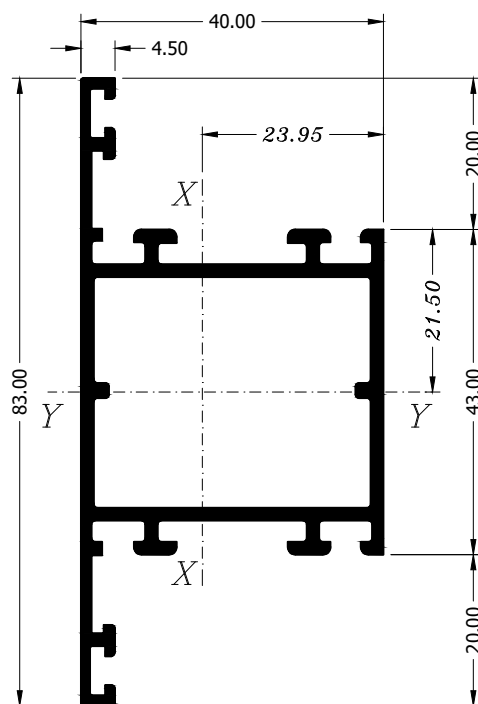
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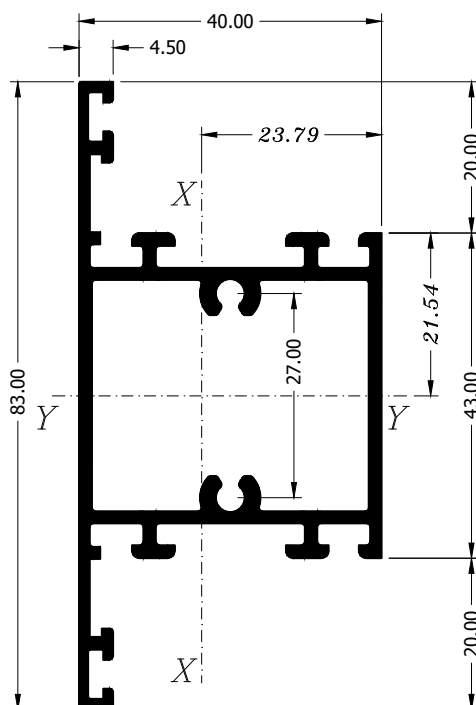
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0.739 Kg./ml.



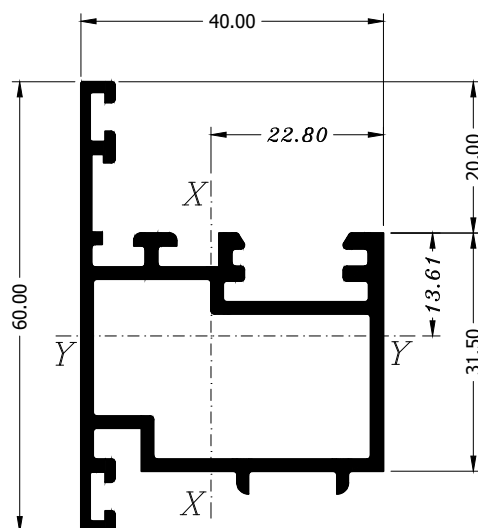
1 040 4210
0.832 Kg./ml.



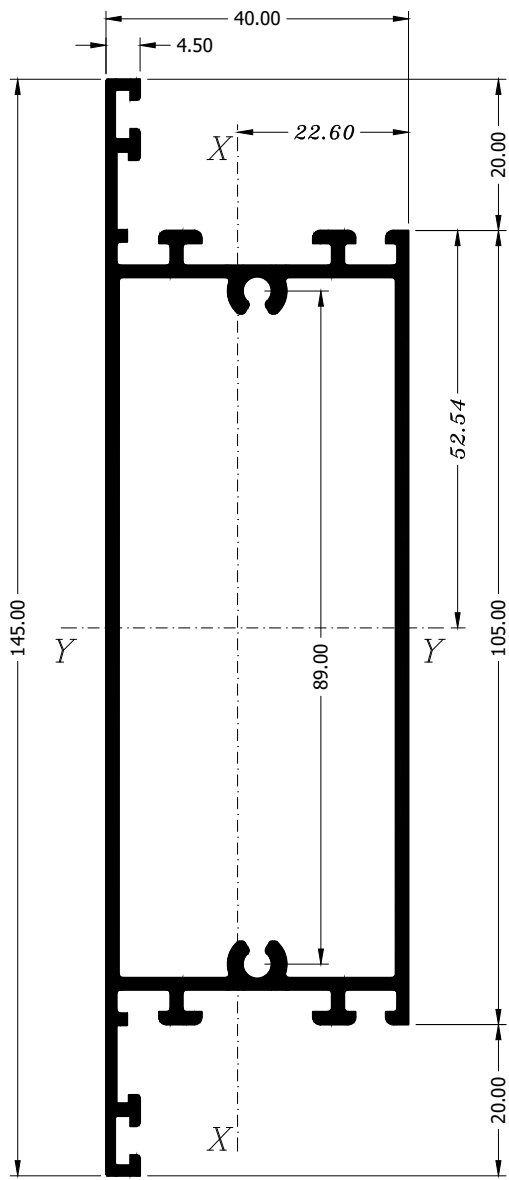
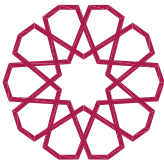
1 040 4220
0.978 Kg./ml.



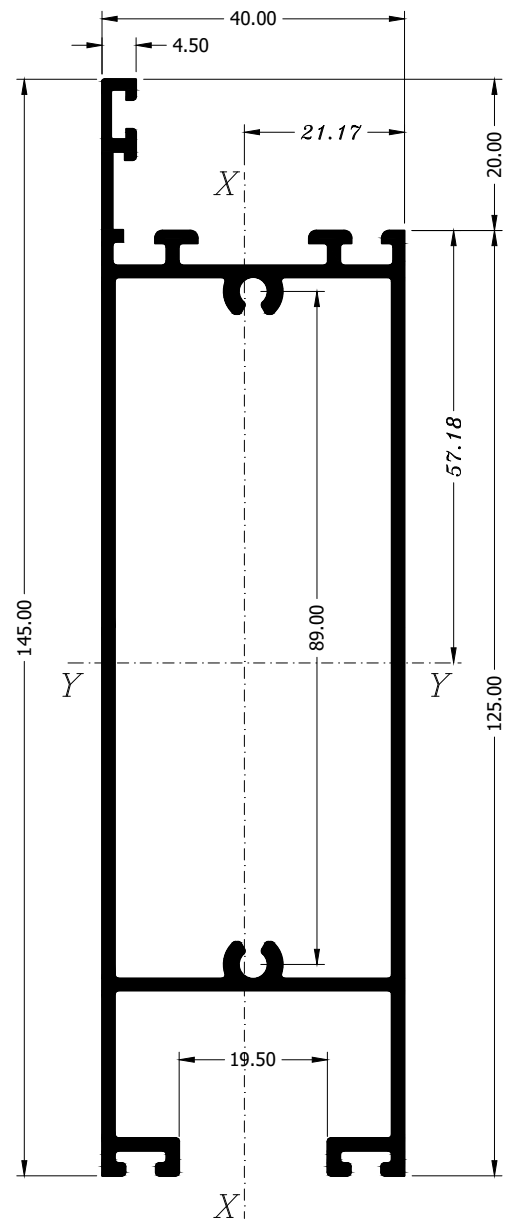
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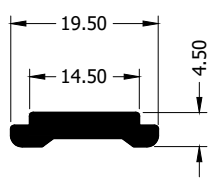
1 040 9610
0.875 Kg./ml.



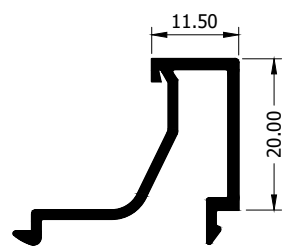
1 040 5130
1.493 Kg./ml.



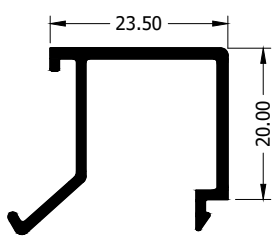
1 040 5330
1.647 Kg./ml.



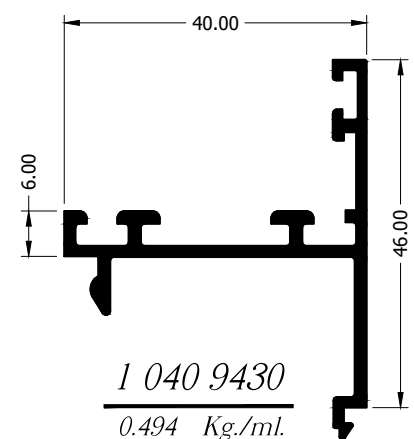
1 045 9910
0.146 Kg./ml.



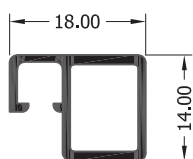
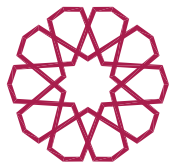
1 040 6170
0.230 Kg./ml.



1 040 6230
0.245 Kg./ml.

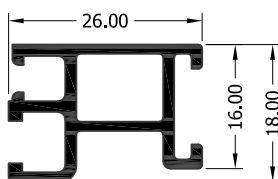


1 040 9430
0.494 Kg./ml.



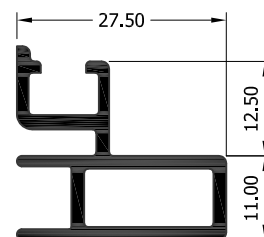
5 025 4810

0.165 Kg./ml.



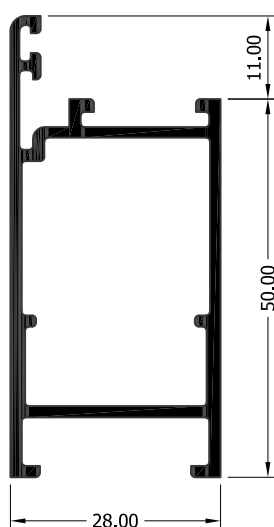
5 025 4830

0.307 Kg./ml.



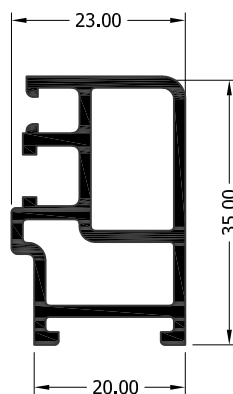
5 025 4832

0.420 Kg./ml.



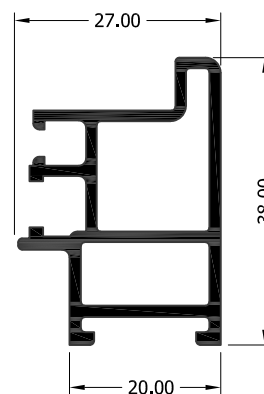
5 028 1210

0.634 Kg./ml.



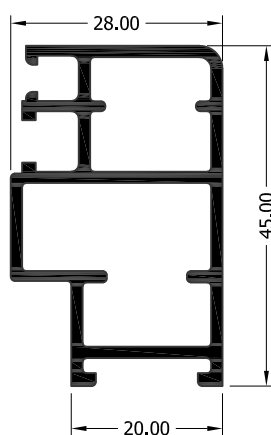
5 028 4310

0.477 Kg./ml.



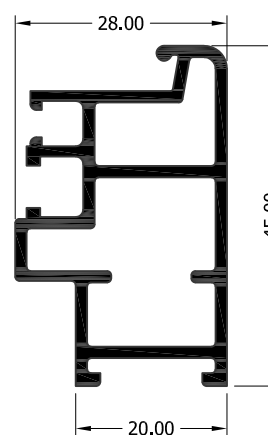
5 028 4311

0.514 Kg./ml.



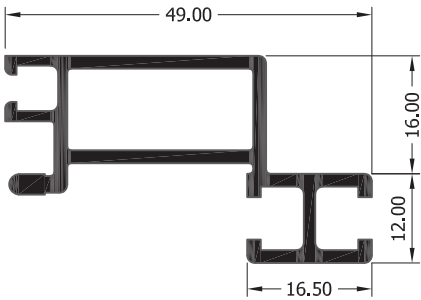
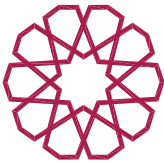
5 028 4460

0.630 Kg./ml.

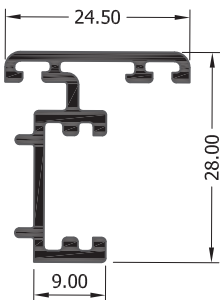


5 028 4461

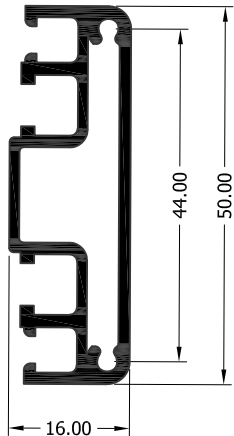
0.618 Kg./ml.



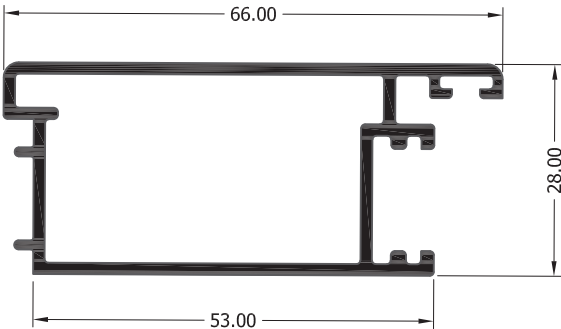
5 028 9210
0.615 Kg./ml.



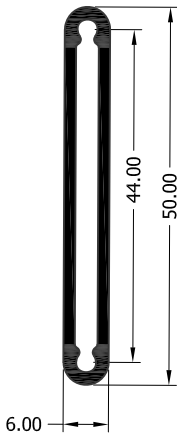
5 028 9610
0.302 Kg./ml.



5 900 5410
0.610 Kg./ml.



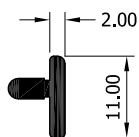
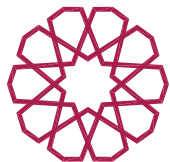
5 028 9620
0.672 Kg./ml.



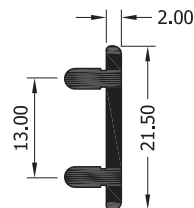
5 900 5020
0.375 Kg./ml.



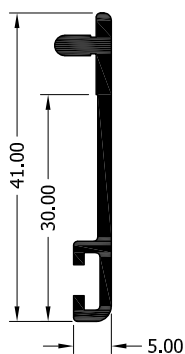
5 900 9100
0.100 Kg./ml.



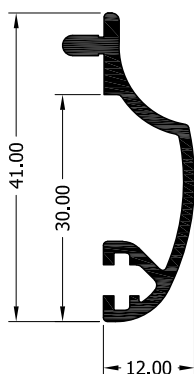
9 001 1100
0.092 Kg./ml.



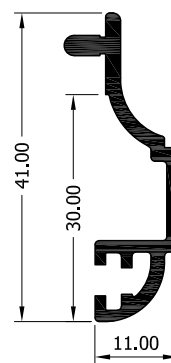
9 002 1200
0.181 Kg./ml.



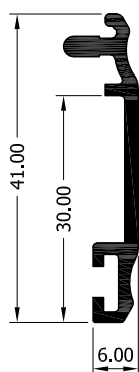
9 001 1300
0.240 Kg./ml.



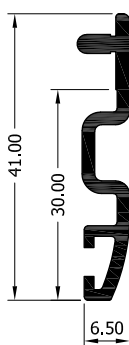
9 001 1302
0.211 Kg./ml.



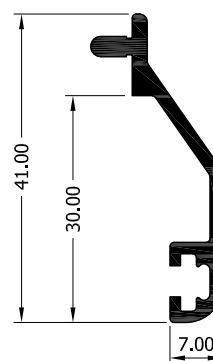
9 001 1303
0.284 Kg./ml.



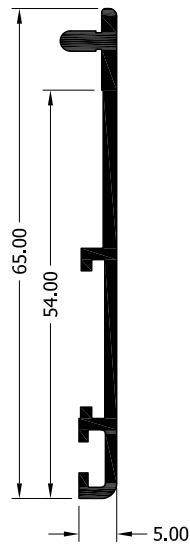
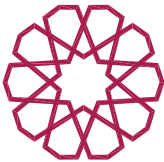
9 001 1304
0.250 Kg./ml.



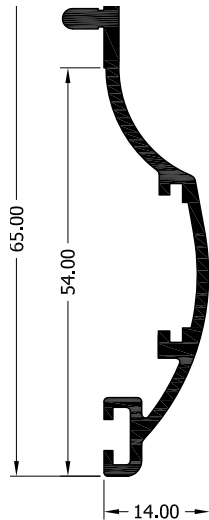
9 001 1305
0.275 Kg./ml.



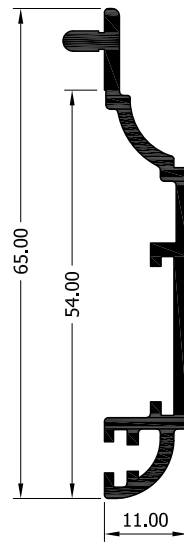
9 001 1308
0.281 Kg./ml.



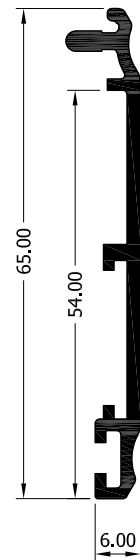
9 001 1500
0.348 Kg./ml.



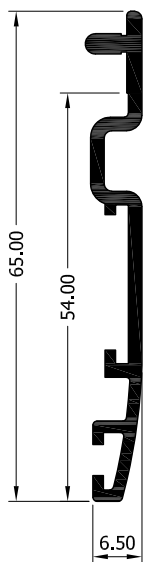
9 001 1502
0.424 Kg./ml.



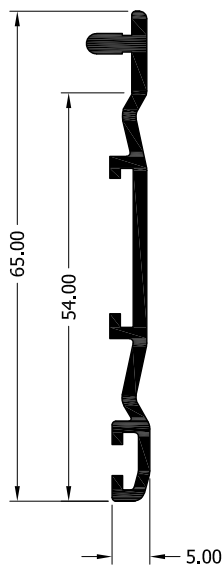
9 001 1503
0.402 Kg./ml.



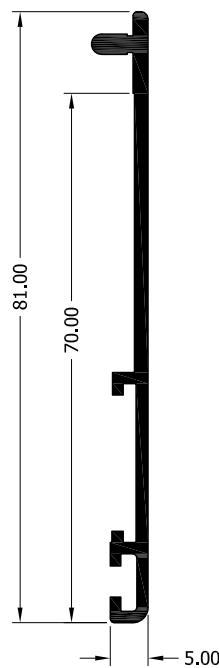
9 001 1504
0.370 Kg./ml.



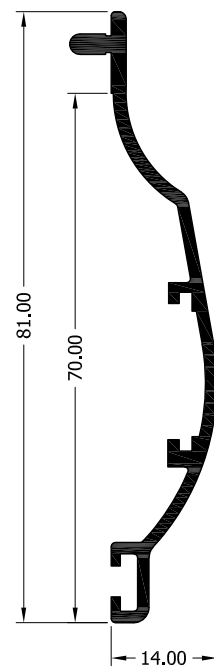
9 001 1505
0.383 Kg./ml.



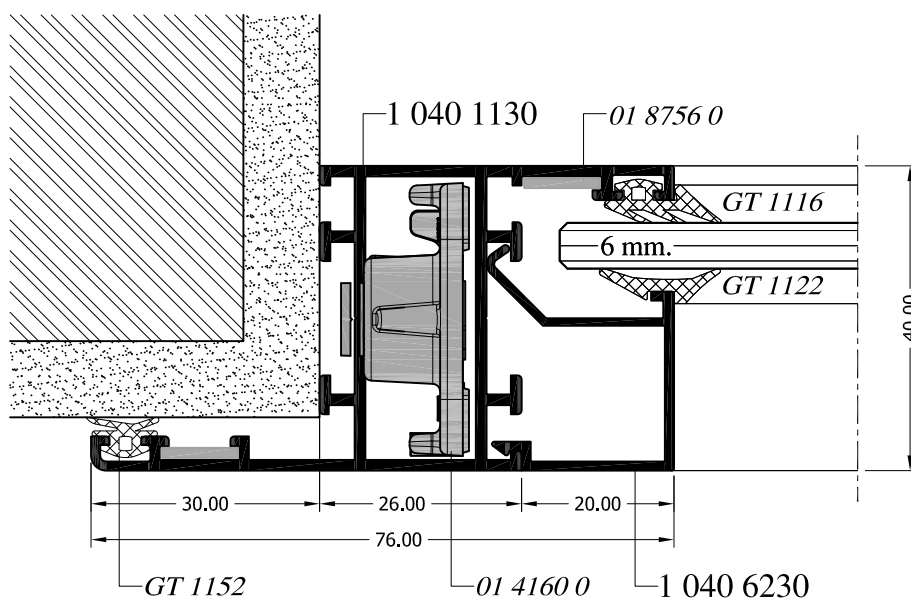
9 001 1507
0.383 Kg./ml.

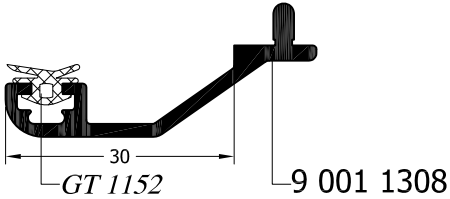
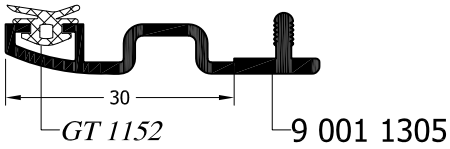
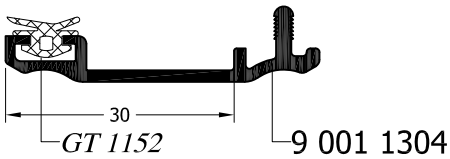
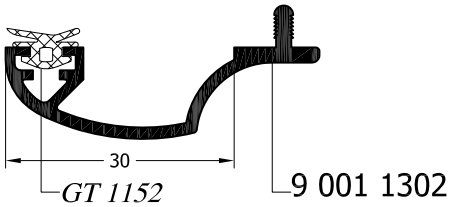
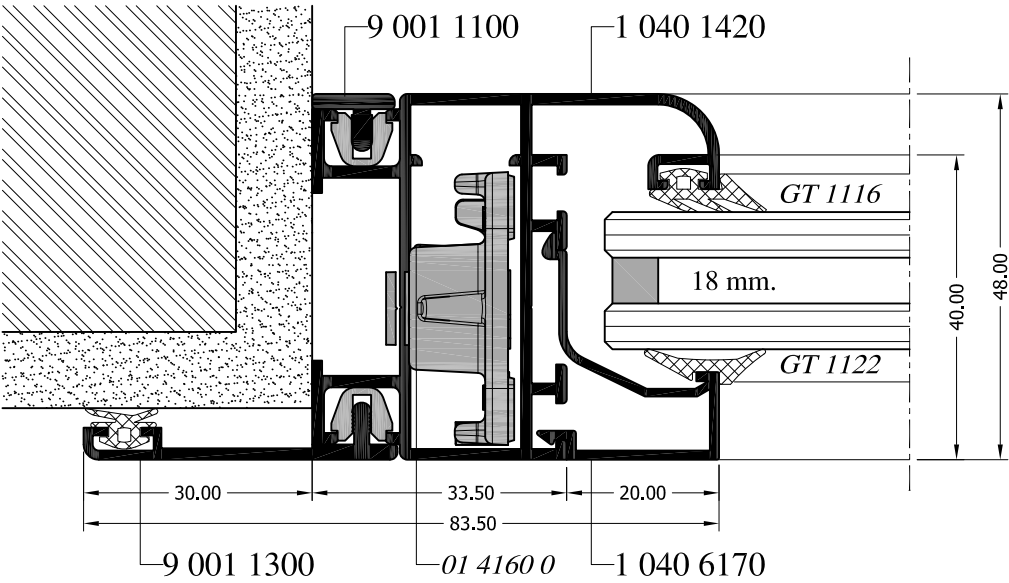
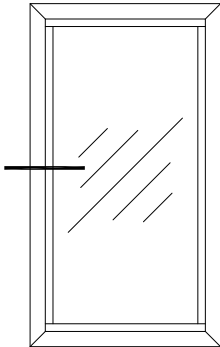
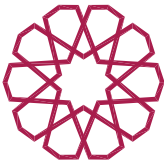


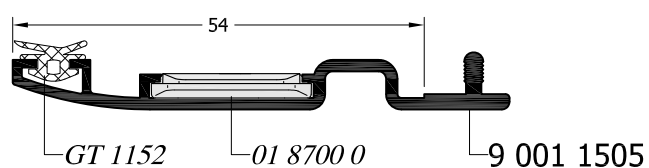
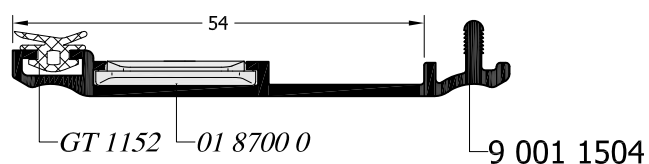
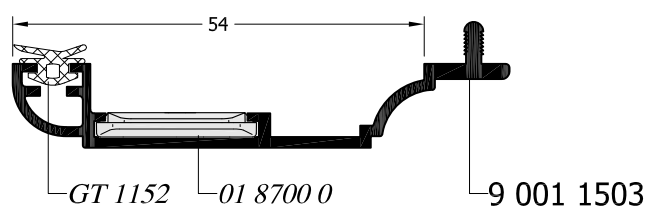
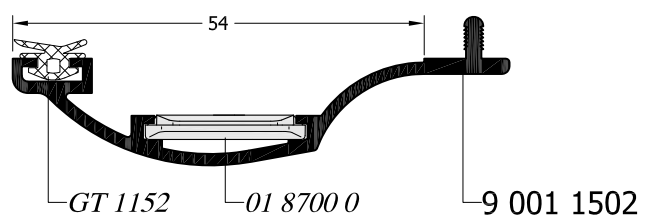
9 001 1700
0.418 Kg./ml.

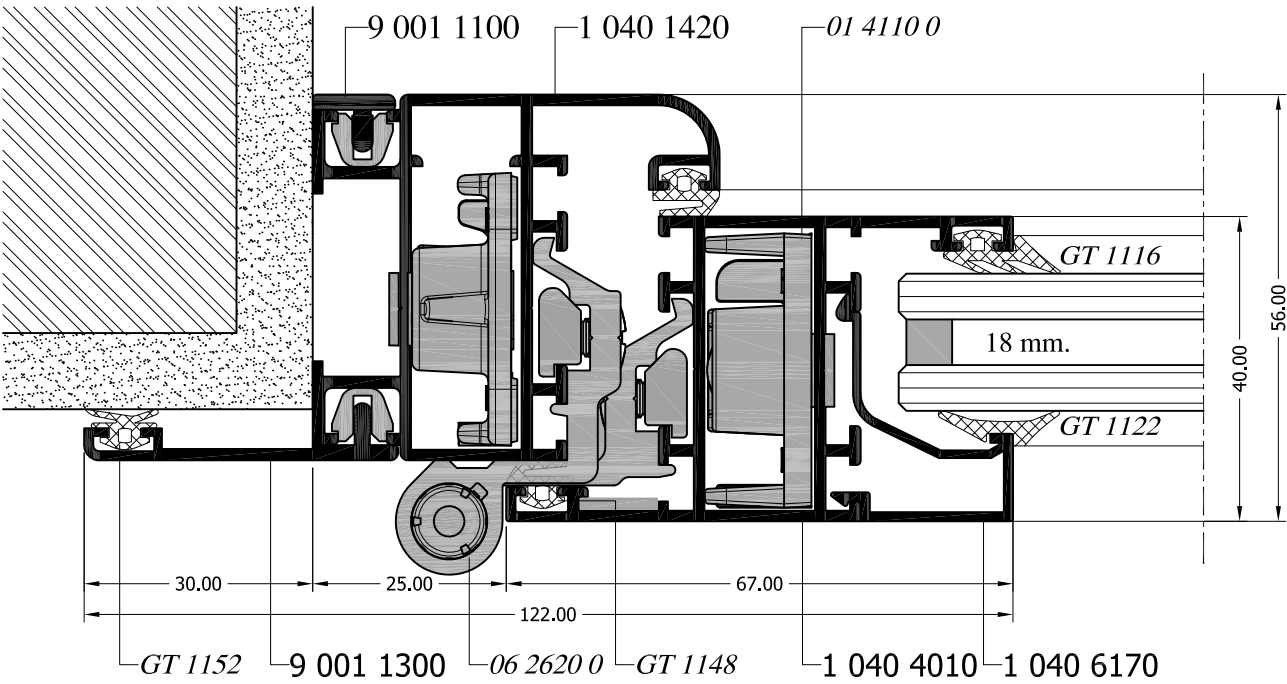
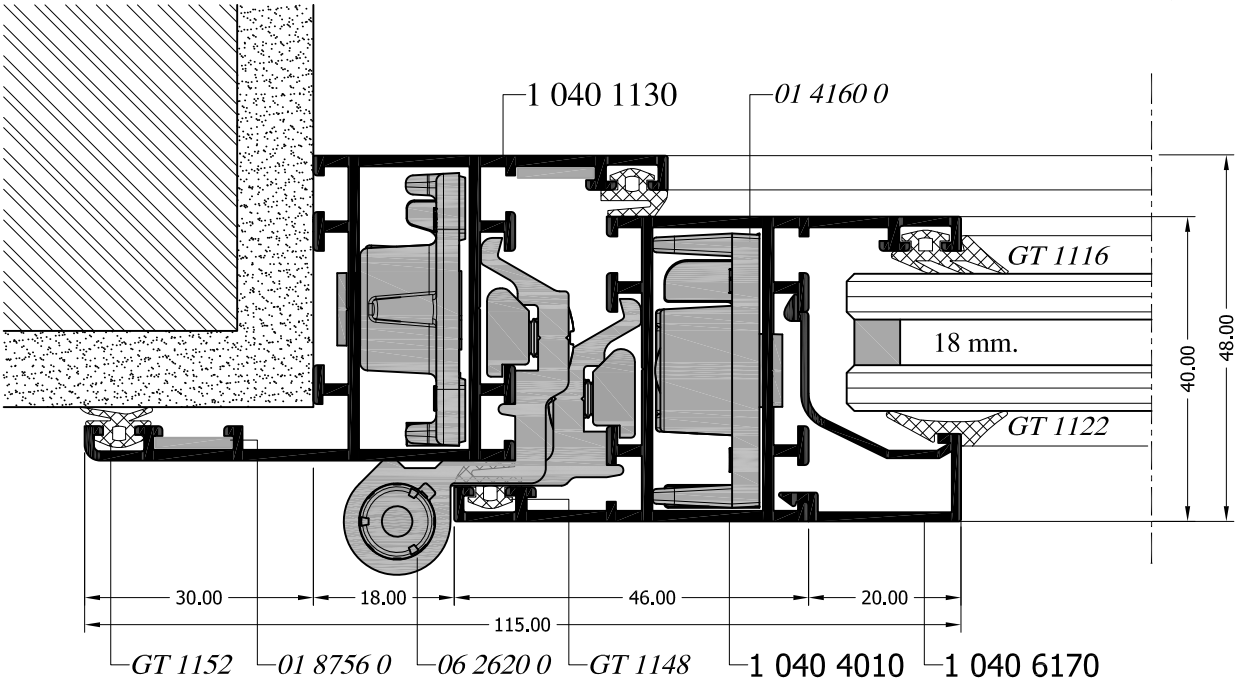
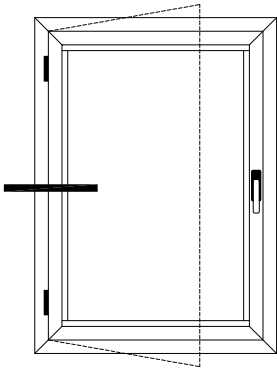
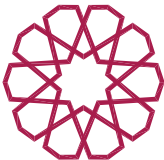


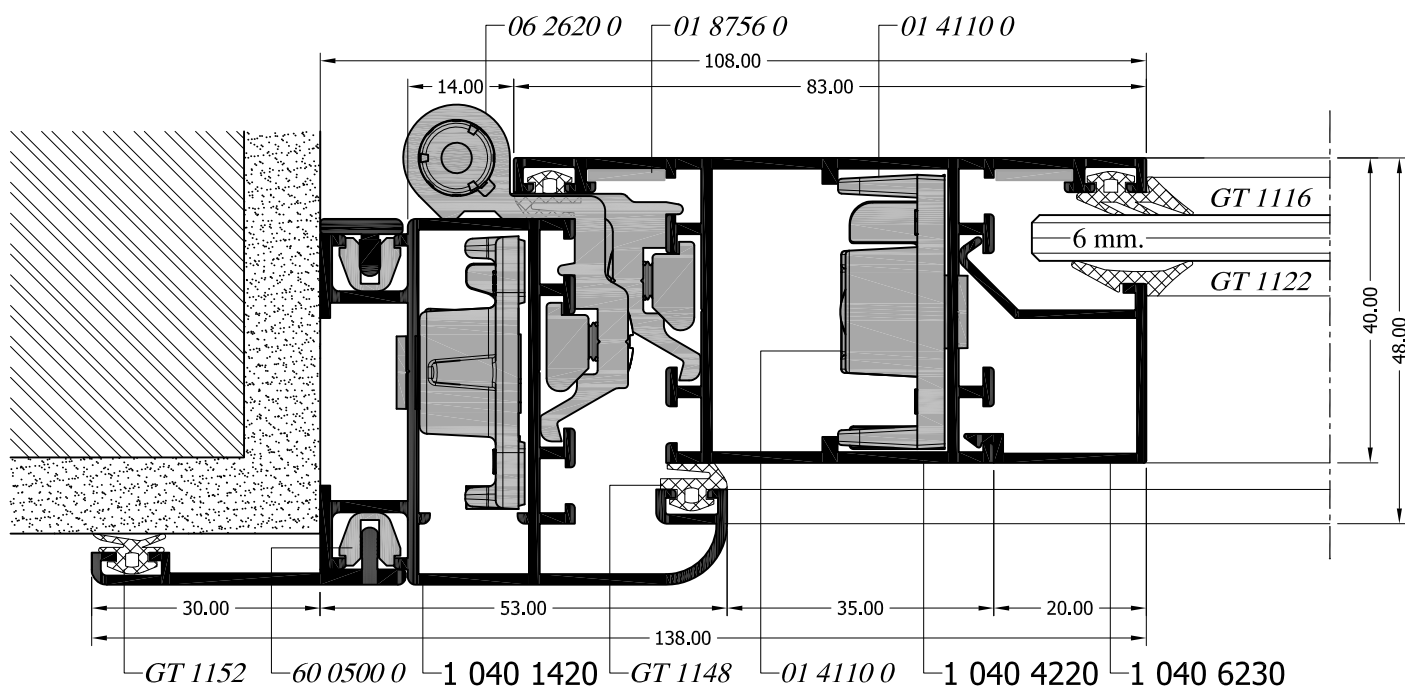
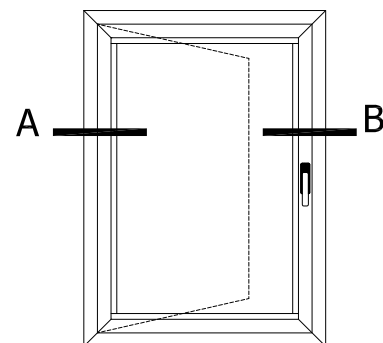
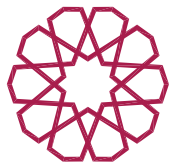
9 001 1702
0.473 Kg./ml.



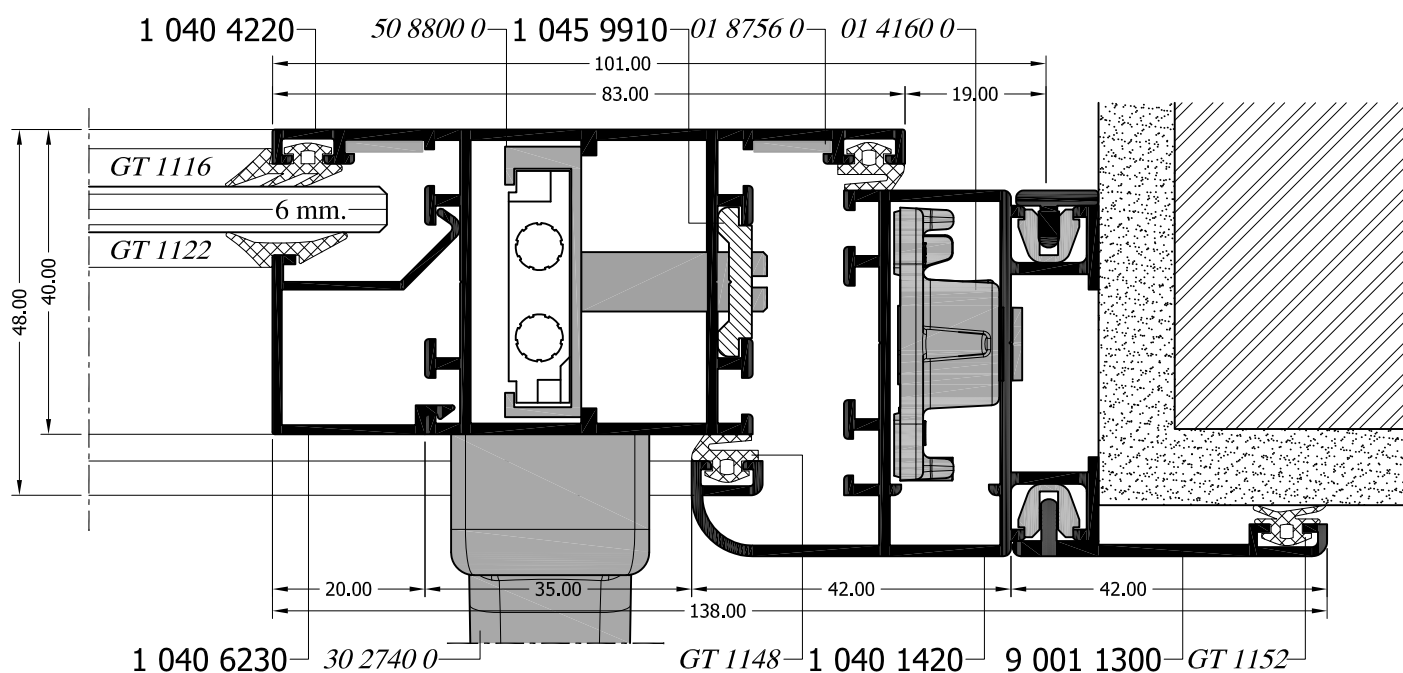




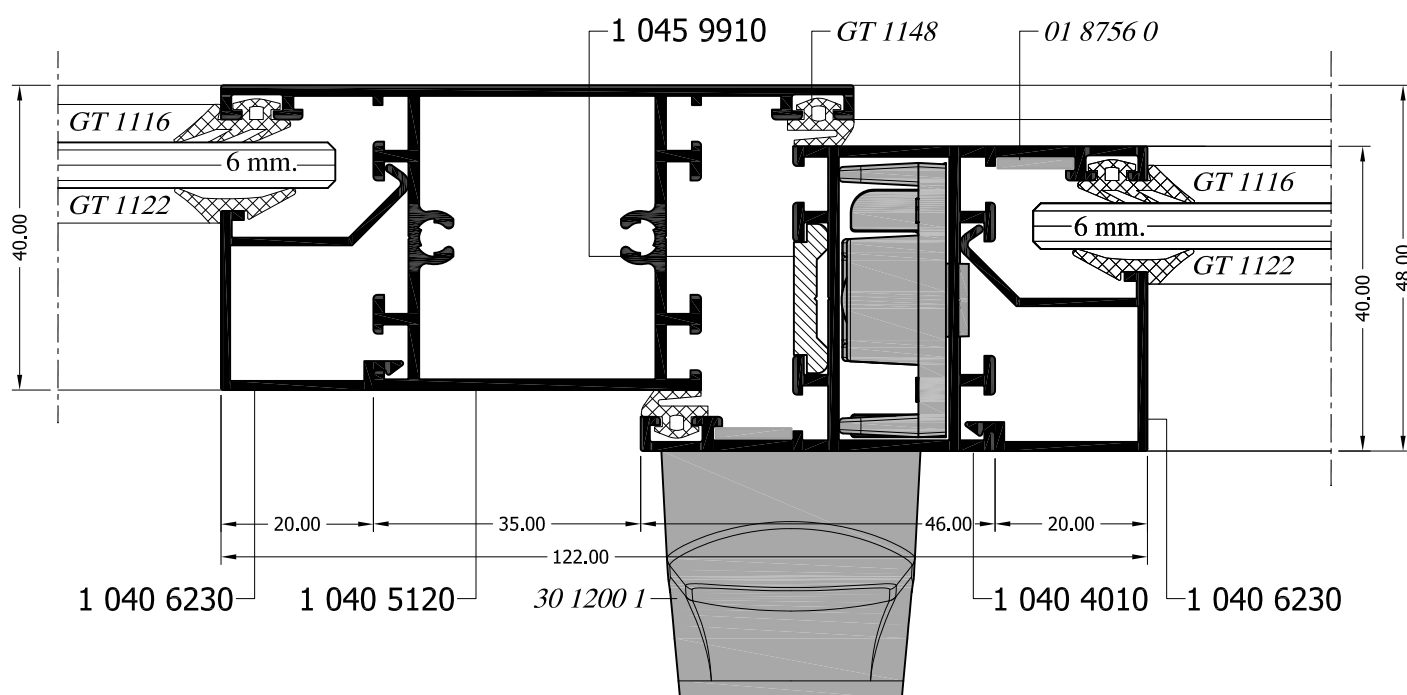
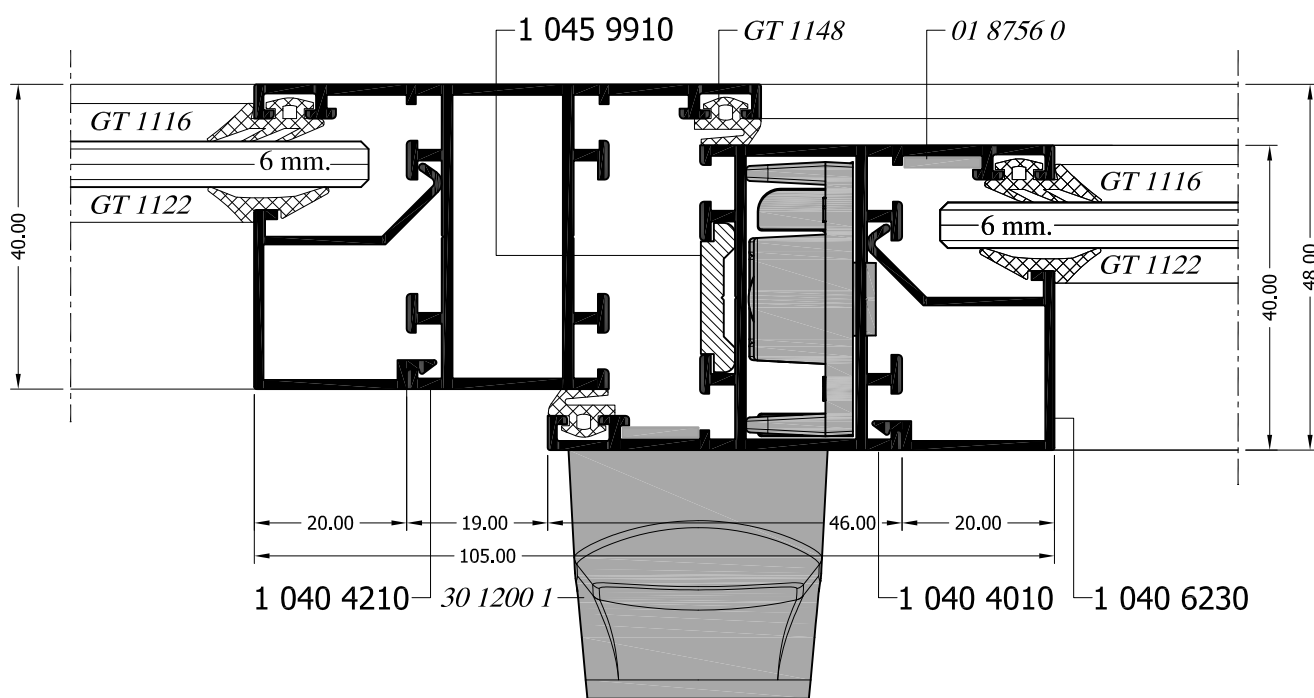
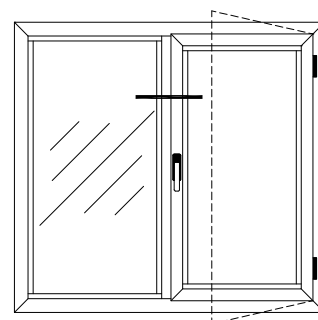
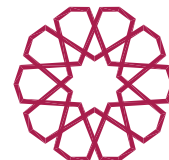


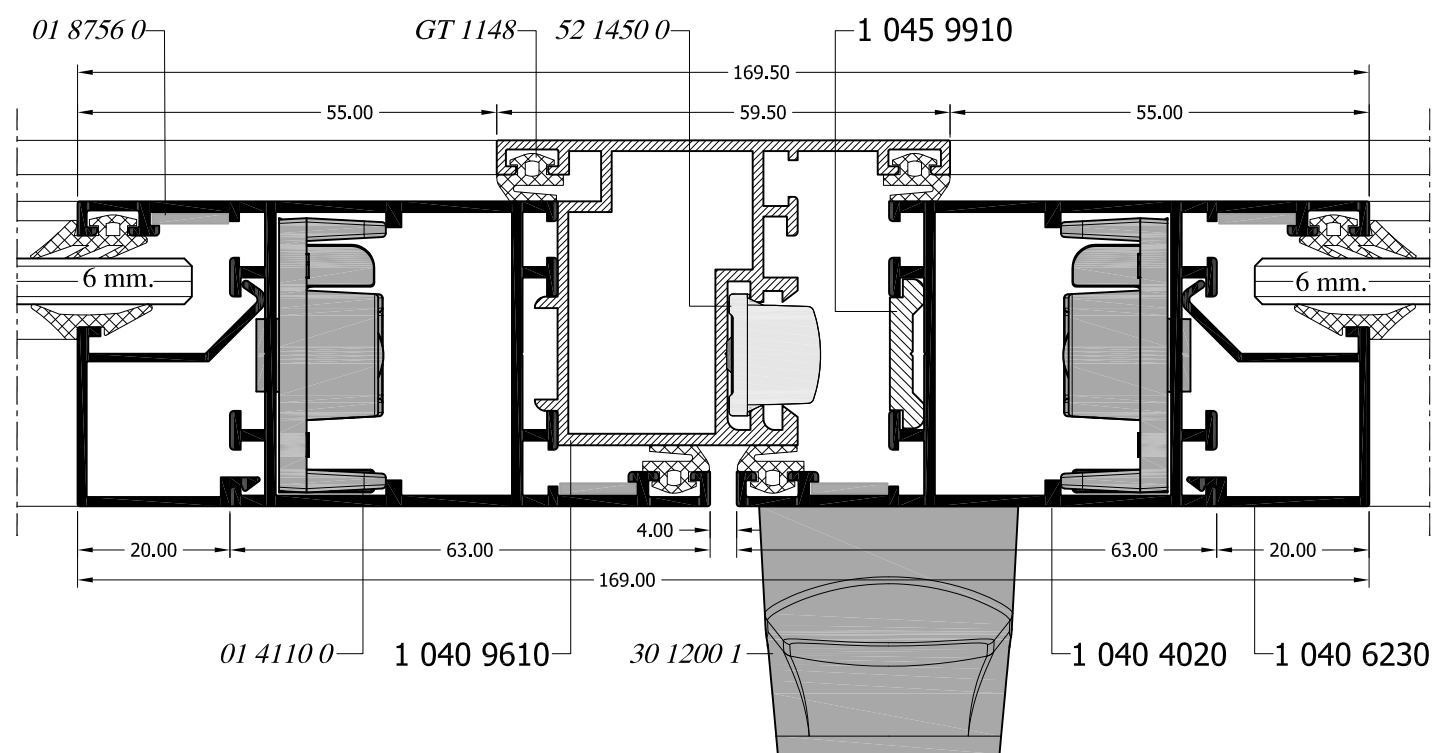
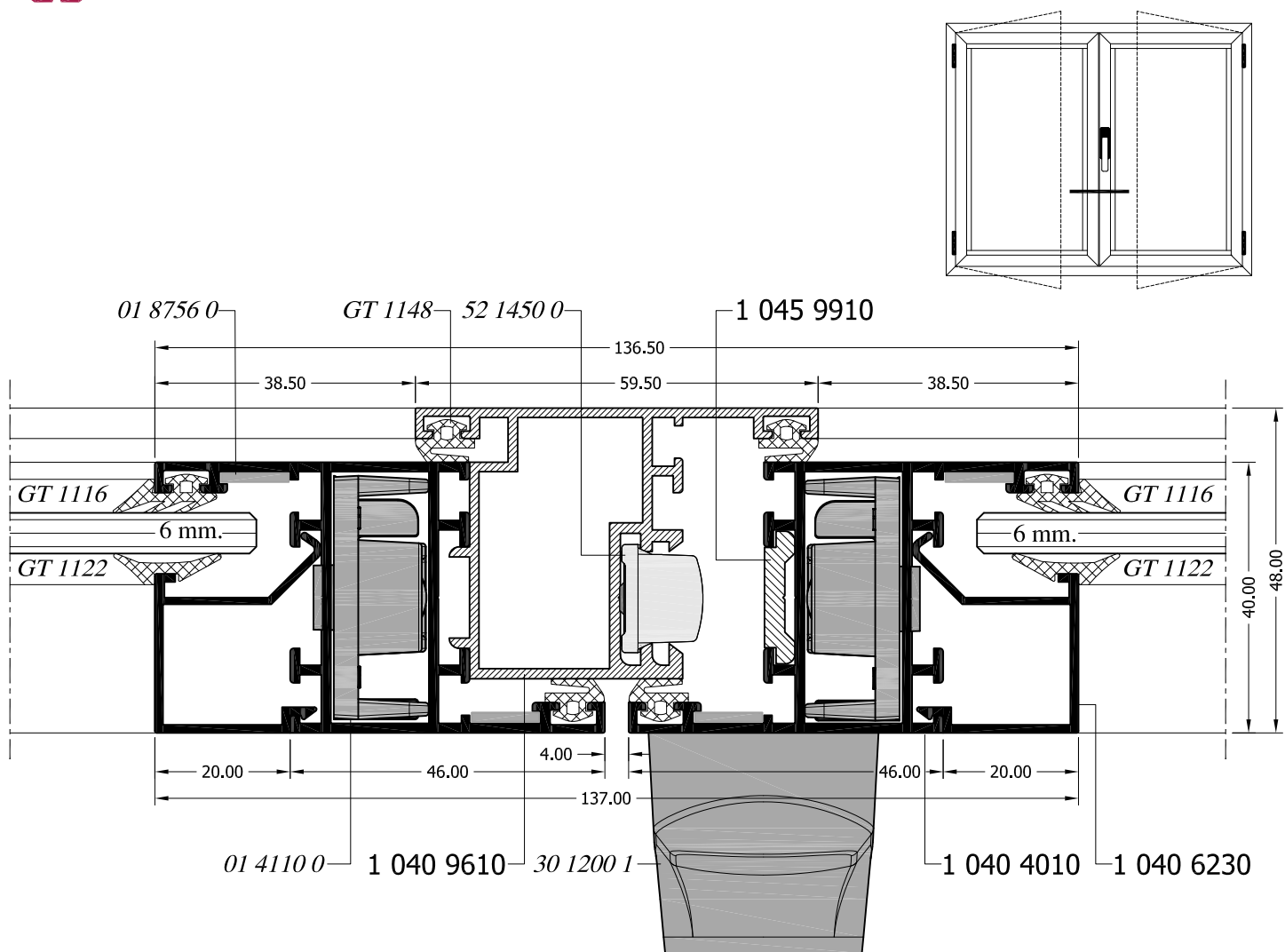
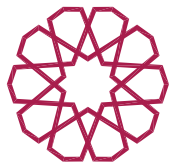


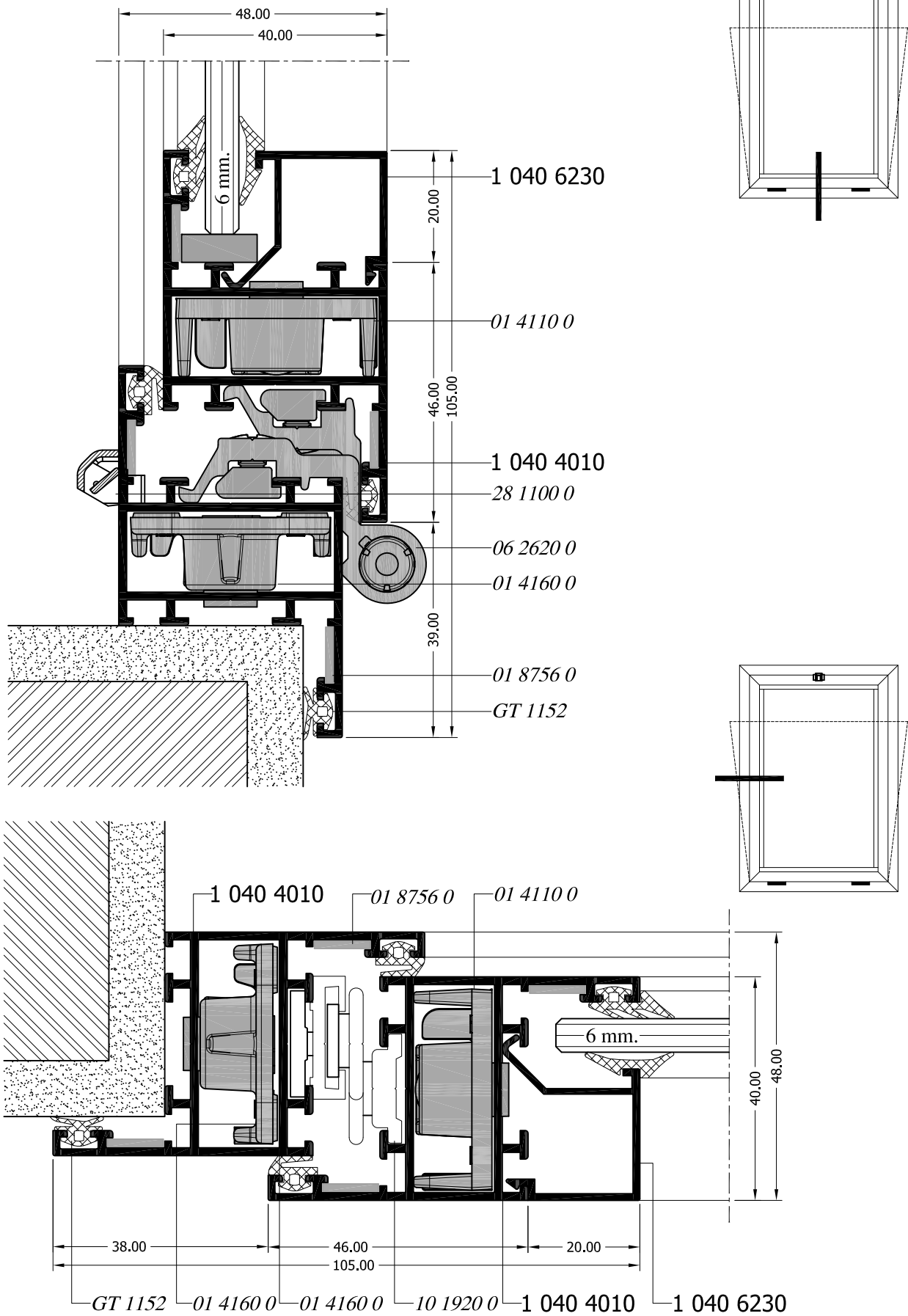
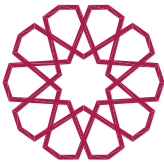
DET. A

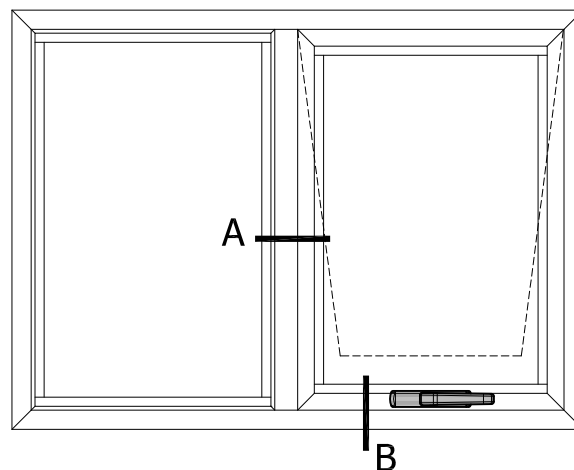
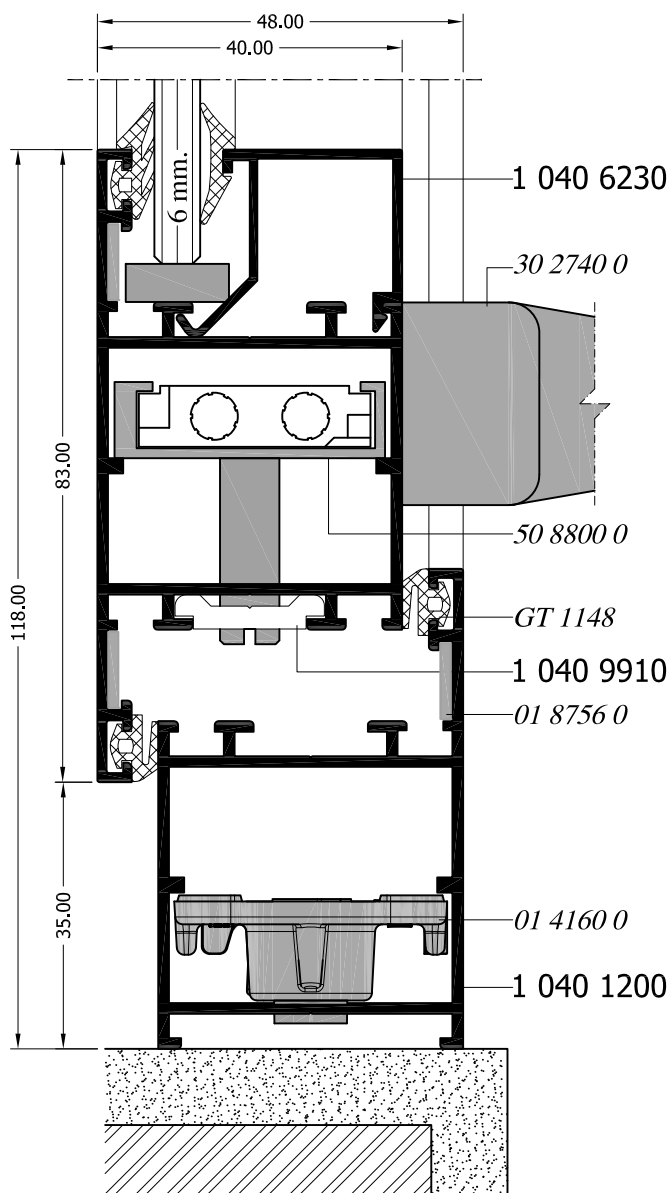
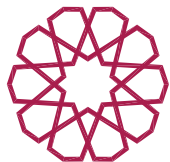


DET. B

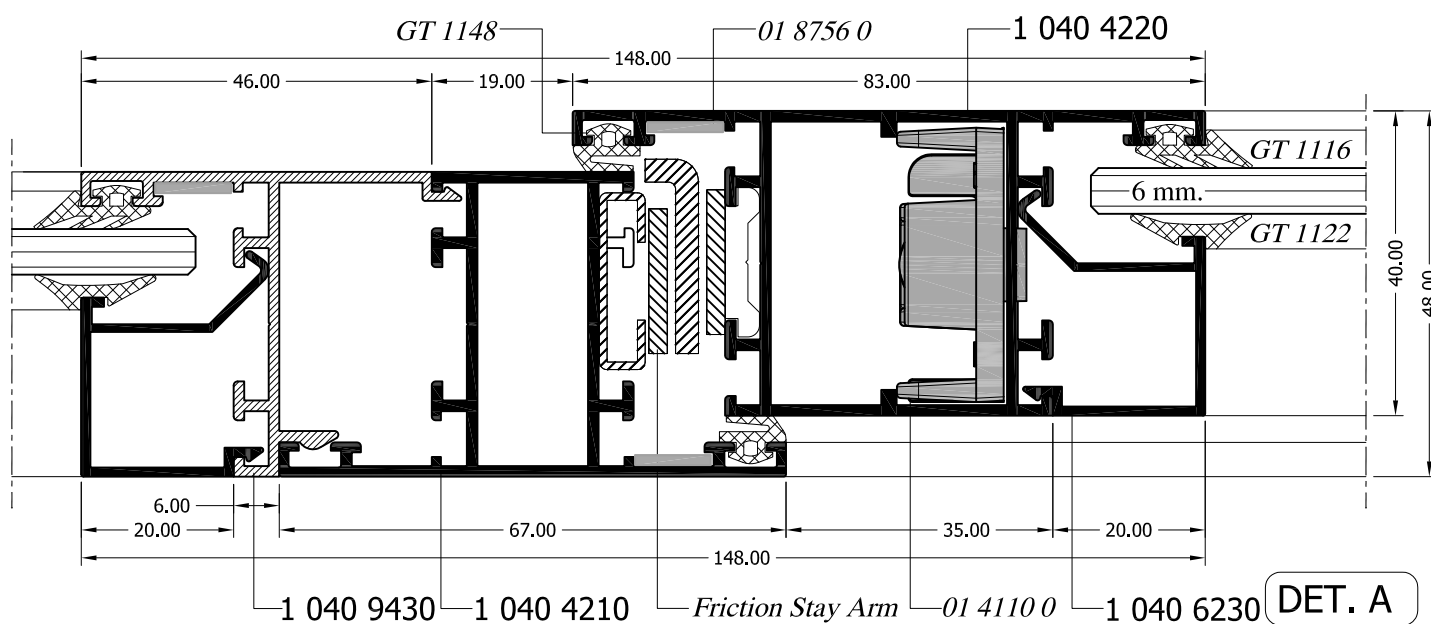




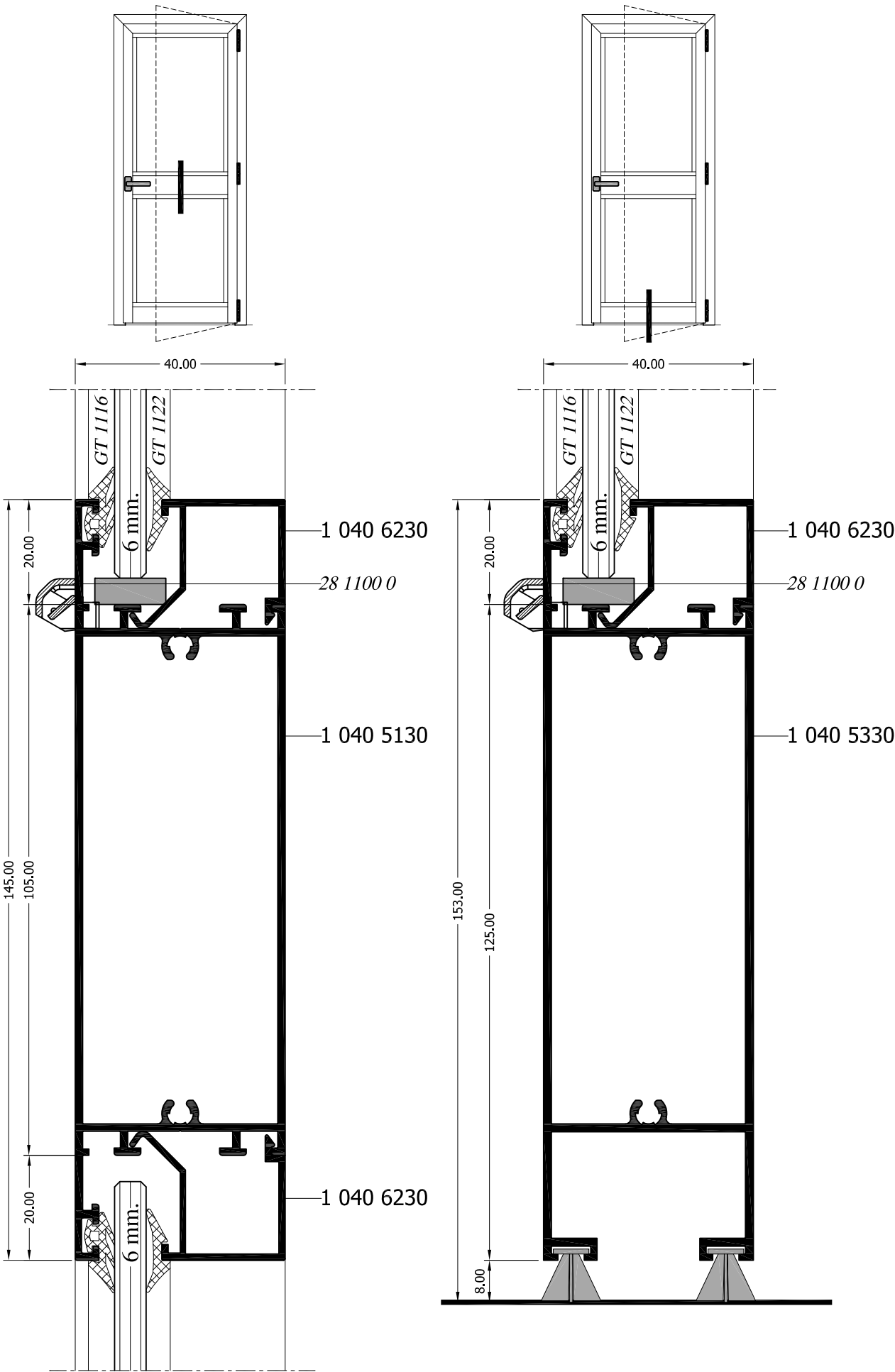
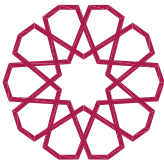


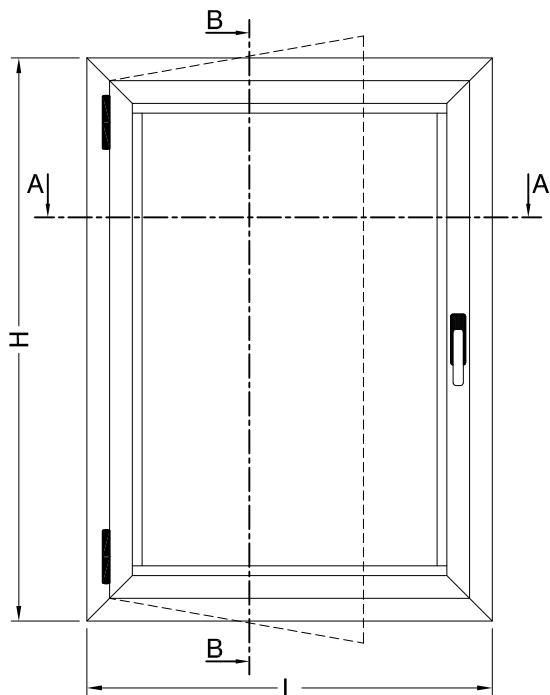
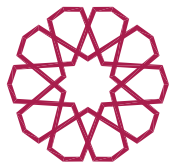


DET. B



DET. A



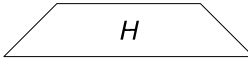
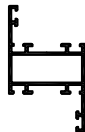
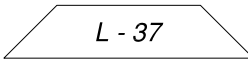
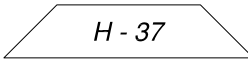
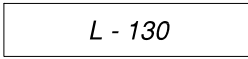
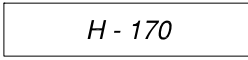


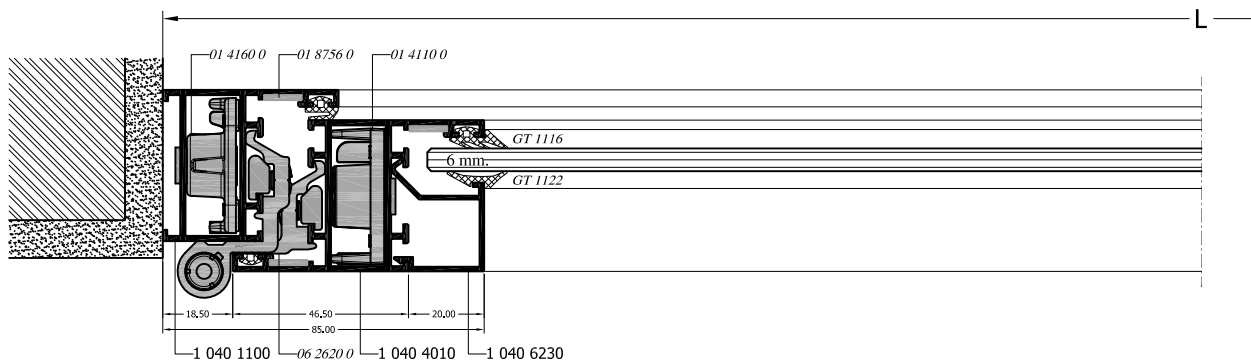
TOTAL WEIGHT

L (m.) X 3.63 Kg.
H (m.) X 3.80 Kg. +

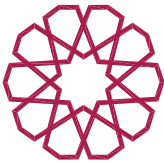
TOTAL = Kg.

PROFILES CUTTING LIST

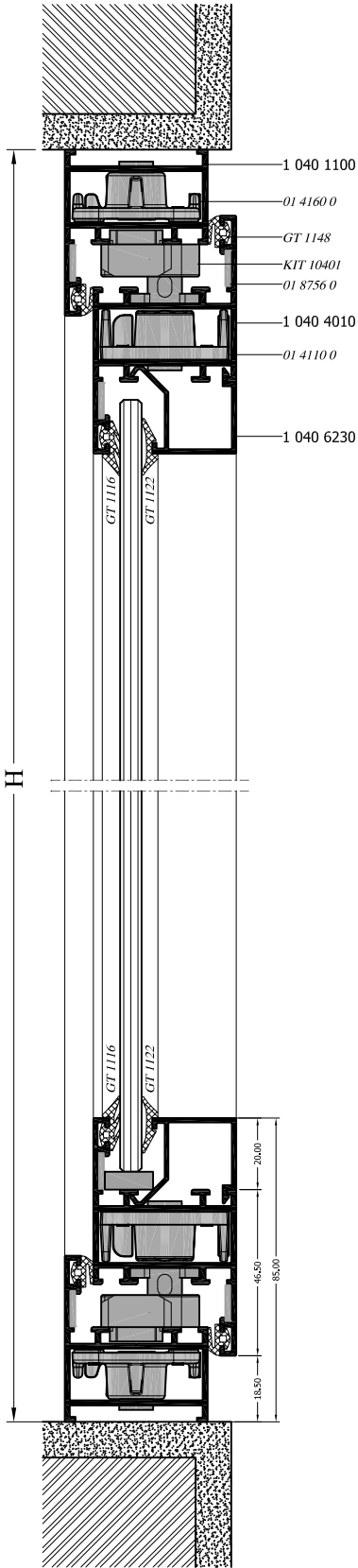
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 040 1100	2	 L
		2	 H
	1 040 4010	2	 L - 37
		2	 H - 37
	1 040 6230	2	 L - 130
		2	 H - 170
SINGLE GLASS"4-6mm"		1	L - 140
			H - 140
ALL DIMENSIONS IN mm.			



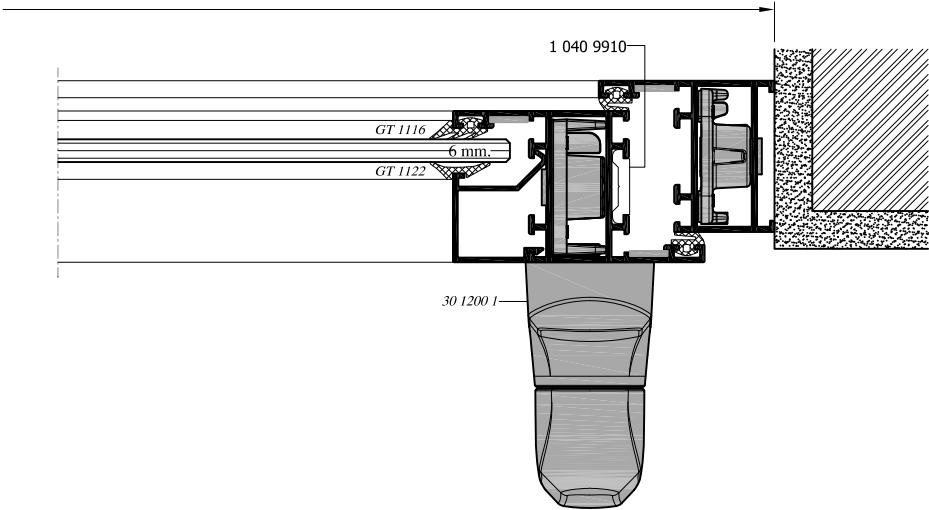
Section A-A

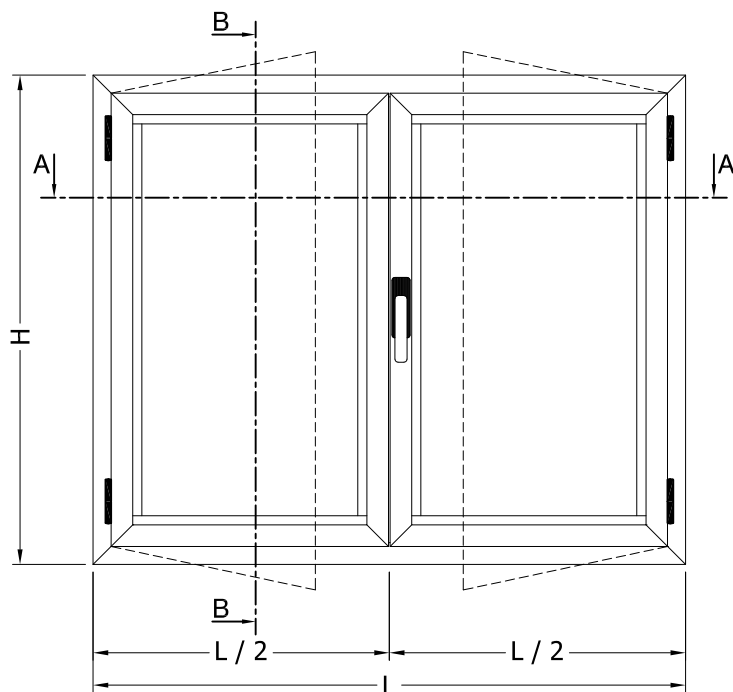
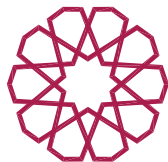


ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	06 2620 0	2	Hinges
	01 4110 0	4	Corner Joint
	01 4160 0	4	Corner Joint
	01 8765 0	12	Alignment Angle
	30 2740 0	1	Cremone Handle
	KIT 10401	1	Locking Kit
	GT 1116	2L+2H	Glass Gasket
	GT 1122	2L+2H	Glass Gasket
	GT 1148	4L+4H	Striker Gasket



Section B-B



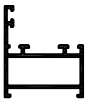
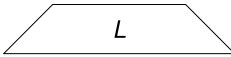
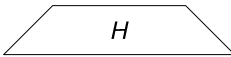
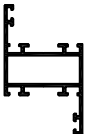
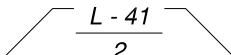
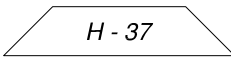
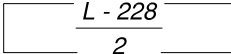
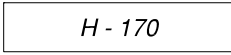
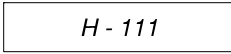
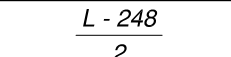
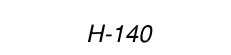


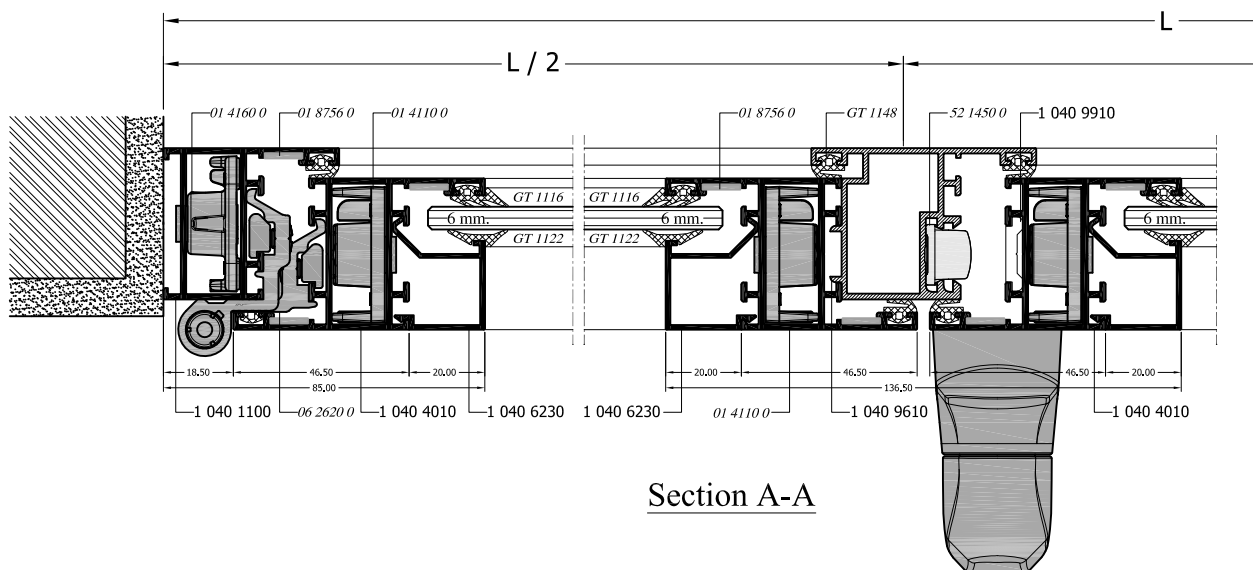
TOTAL WEIGHT

L (m.) X 3.63 Kg.
H (m.) X 6.96 Kg. +

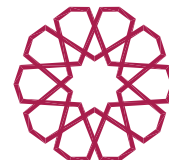
TOTAL = Kg.

PROFILES CUTTING LIST

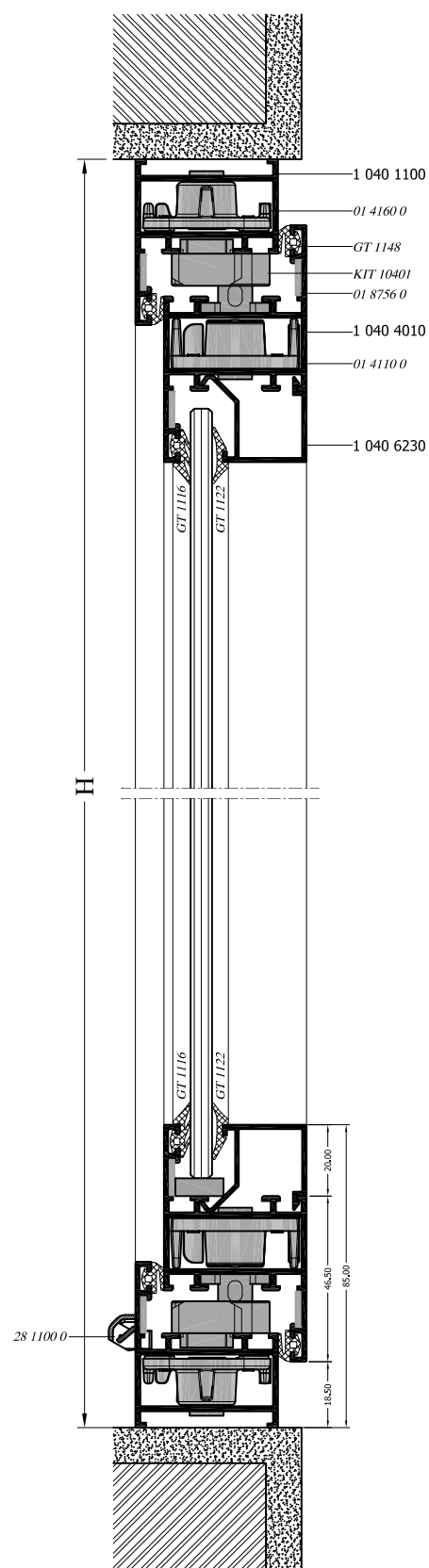
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 040 1100	2	
		2	
	1 040 4010	4	
		4	
	1 040 6230	4	
		4	
	1 040 9610	1	
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			



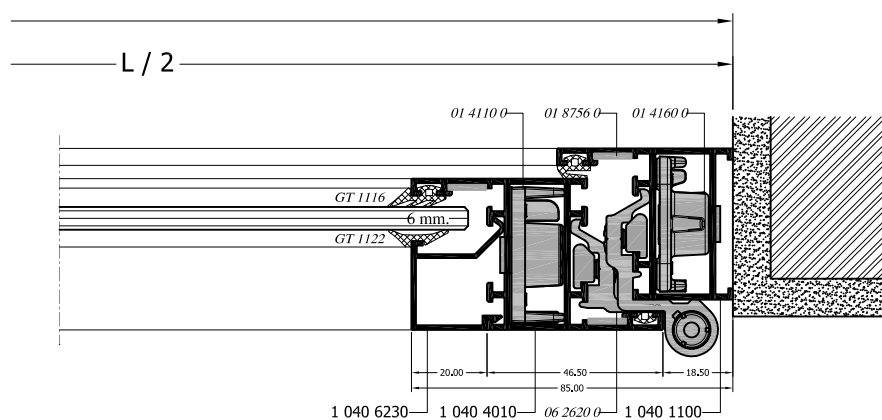
Section A-A

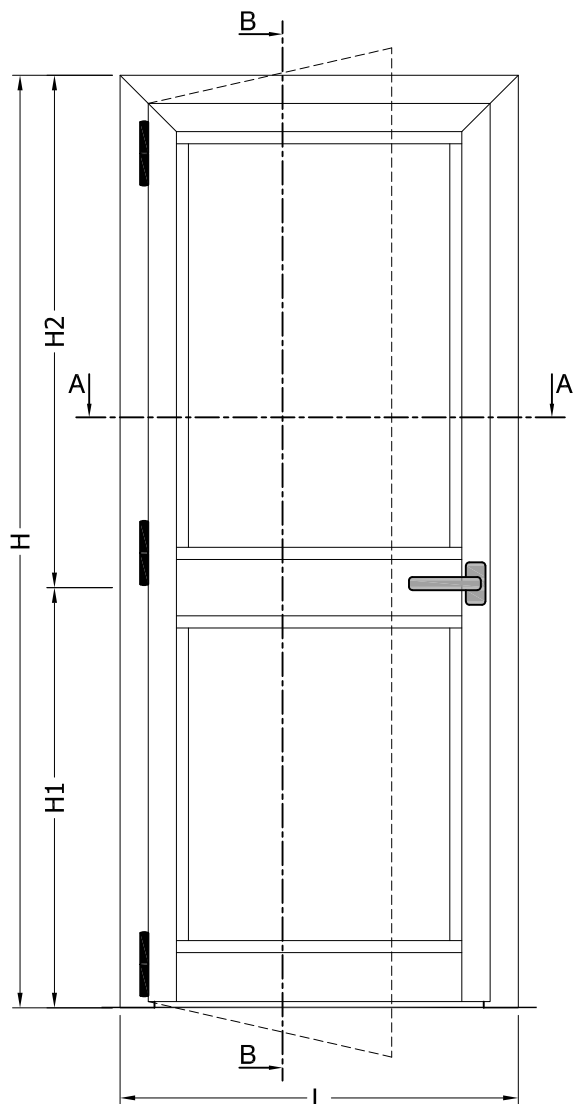
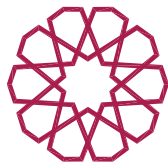


ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	06 2620 0	4	Hinges
	01 4110 0	8	Corner Joint
	01 4160 0	4	Corner Joint
	01 8765 0	20	Alignment Angle
	30 1200 1	1	Cremone Handle
	KIT 10401	1	Locking Kit
	52 1450 0	2	Bolt
	62 1441 0	1	Central Rabbet Plug
	GT 1116	2L+4H	Glass Gasket
	GT 1122	2L+4H	Glass Gasket
	GT 1148	4L+8H	Striker Gasket



Section B-B

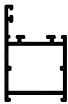
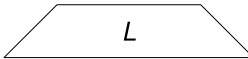
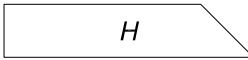
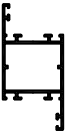
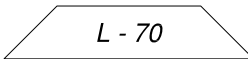
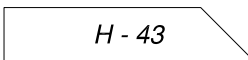
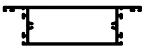
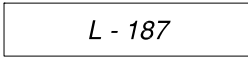
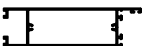
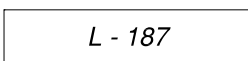
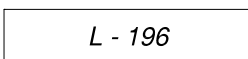
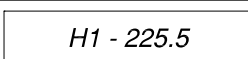
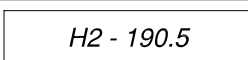
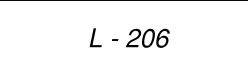
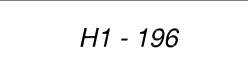
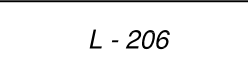
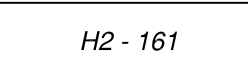


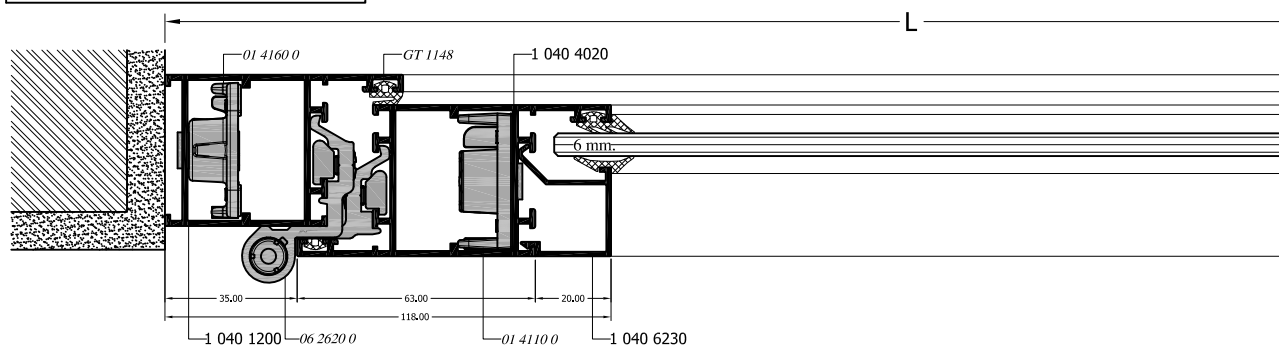


TOTAL WEIGHT

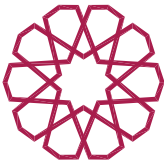
L (m.)	X	6.19	Kg.	
H1 (m.)	X	4.26	Kg.	+
H2 (m.)	X	4.26	Kg.	+
TOTAL	=		Kg.	

PROFILES CUTTING LIST

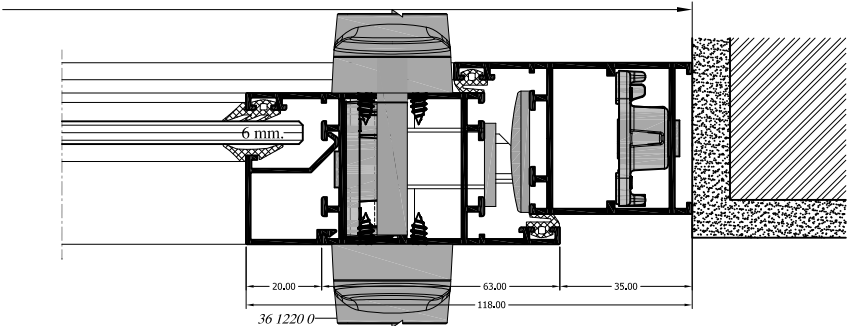
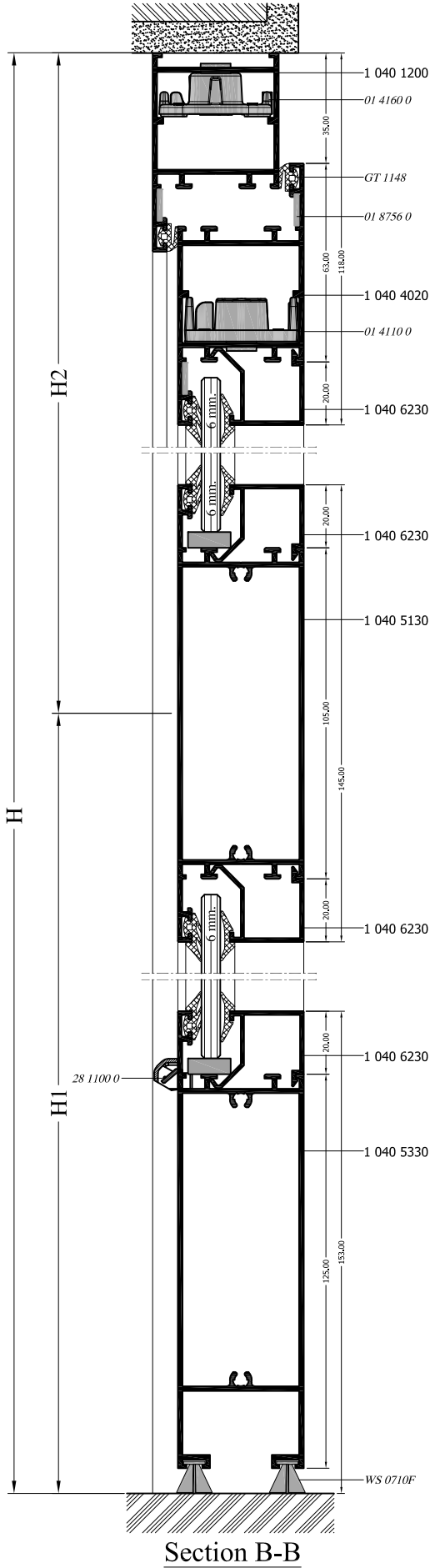
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 040 1200	1	
		2	
	1 040 4020	1	
		2	
	1 040 5130	1	
	1 040 5330	1	
	1 040 6230	4	
		2	
		2	
SINGLE GLASS"4-6mm"		1	
			
SINGLE GLASS"4-6mm"		1	
			
ALL DIMENSIONS IN mm.			

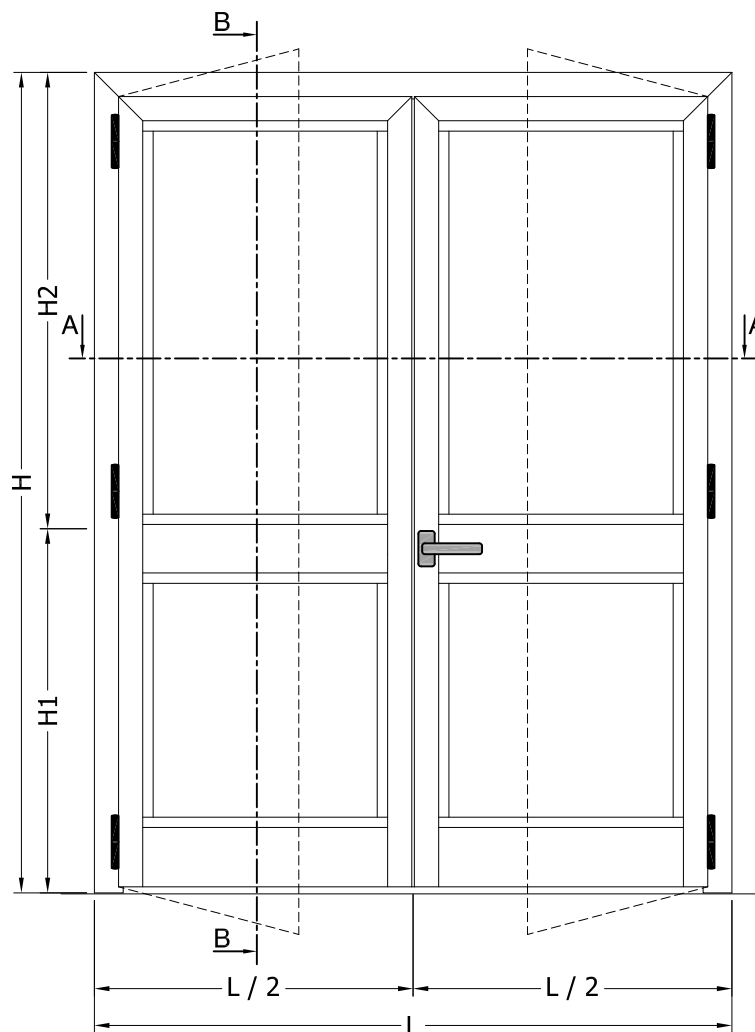
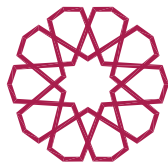


Section A-A



ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	06 2620 0	3	Hinges
	01 4110 0	4	Corner Joint
	01 4160 0	4	Corner Joint
	01 8765 0	6	Alignment Angle
	54 1020 0	1	Lock Striker
	36 1220 0	1	Pair Of Door Handle
	FC -A1830200	1	Roller Lock 30mm
	FC -C1054280	1	Cylinder 53mm (26.5 / 26.5)
	GT 1116	4L+2H	Glass Gasket
	GT 1122	4L+2H	Glass Gasket
	GT 1148	2L+4H	Striker Gasket
	WS 0710F	2L	Weather Strip





TOTAL WEIGHT

L (m.) X 6.19 Kg.

H1 (m.) X 6.83 Kg.

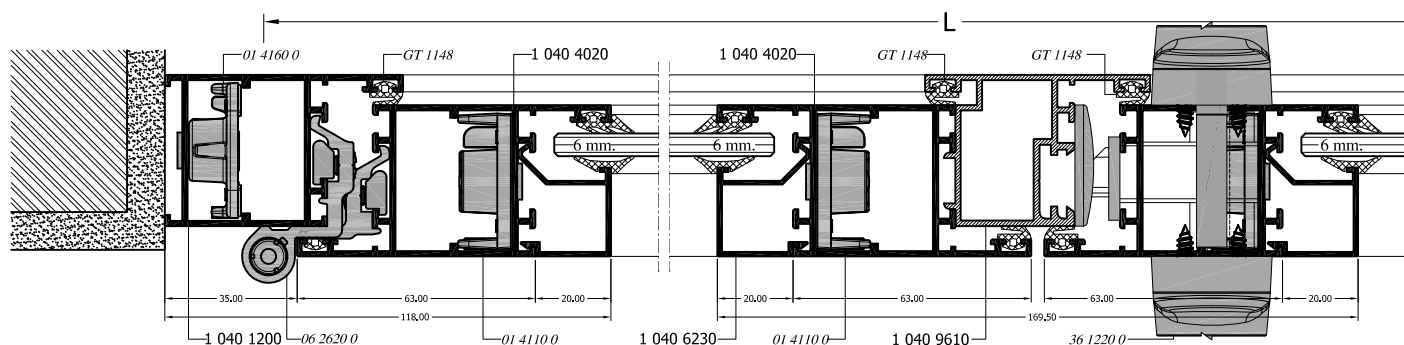
H2 (m.) X 6.83 Kg.

TOTAL = Kg.

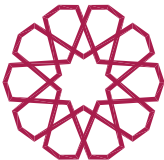
PROFILES CUTTING LIST

FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 040 1200	1	$\frac{L}{2}$
		2	H
	1 040 4020	2	$\frac{L - 74}{2}$
		4	H - 43
	1 040 5130	2	$\frac{L - 308}{2}$
	1 040 5330	2	$\frac{L - 308}{2}$
	1 040 6230	8	$\frac{L - 326}{2}$
		4	H1 - 225.5
		4	H2 - 190.5
SINGLE GLASS"4-6mm"	2		$\frac{L - 346}{2}$
			H1 - 196
SINGLE GLASS"4-6mm"	2		$\frac{L - 346}{2}$
			H2 - 161

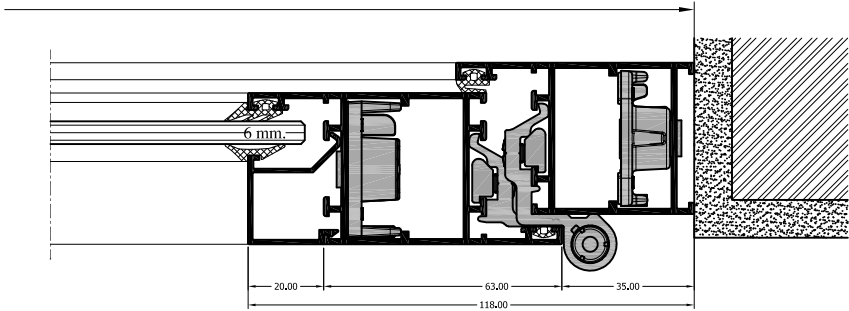
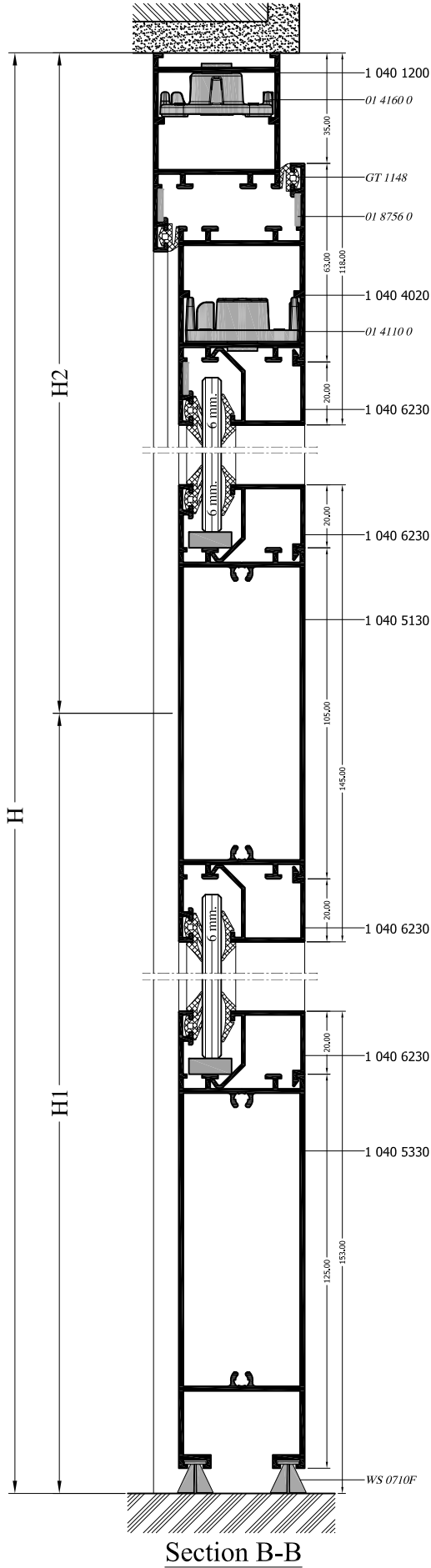
ALL DIMENSIONS IN mm.



Section A-A



ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	06 2620 0	3	Hinges
	01 4110 0	2	Corner Joint
	01 4160 0	4	Corner Joint
	01 8765 0	10	Alignment Angle
	62 1441 0	1	Central Rabbet Plug
	36 1220 0	1	Pair Of Door Handle
	52 1450 0	2	Bolt
	50 3350 0	1	Striker
	FC -A1830200	1	Roller Lock 30mm
	FC -C1054280	1	Cylinder 53mm (26.5 / 26.5)
	GT 1116	4L+4H	Glass Gasket
	GT 1122	4L+4H	Glass Gasket
	GT 1148	2L+8H	Striker Gasket
	WS 0710F	2L	Weather Strip



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