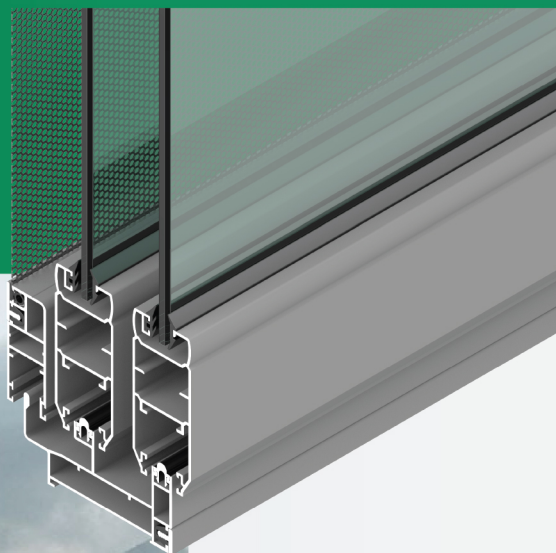




Machines & Aluminium Center
مركز ماكينات ومستلزمات الألومنيوم

ALTO 70

Sliding System Catalogue



2026

Ver.05

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.



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The profiles shown in this catalogue are patented.

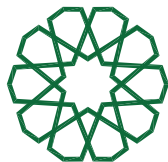
The items shown are the exclusive property of **MACHINES & ALUMINIUM CENTER** and may not be even partially reproduced without **MACHINES & ALUMINIUM CENTER** authorization.

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:

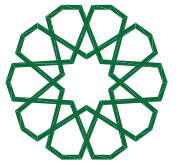
All systems are designed to use most of standard hardware. The hardware should be selected according to the minimum requirements mentioned in the system catalog.

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

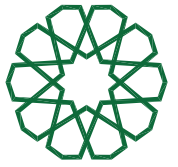
pretreatment and the use of enhanced chemical pretreatment process, with high etching degree, in accordance to QUALICOAT specifications, as well as a full control on the painting processes and polymerization during the whole surface treatment procedure. Therefore, through a unique blending system, stringent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





Interpon.
POWDER COATINGS

AkzoNobel

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

AKZO NOBEL
Powder Coatings SAE
Industrial Zone No.4
6th of October City, Egypt
Tel: +2028331415 - 8335028
Fax: +20235330369

Wael Mahmoud
Sales and Marketing Manager
North Africa & Levant

12/10/2022
AkzoNobel Industrial Paints

Interpon.
POWDER COATINGS

AkzoNobel

Interpon D Approved Applicator

Series D2000

MACHINES AND ALUMINIUM CENTER
(Alwan)
213, 2nd industrial Zone, 6th of October City, Giza
Egypt

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This certificate is effective from
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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)

Authorised Signatory
Jotun Powder Coatings UAE (LLC)

Certificate
of Approval

Machines & Aluminium Center
(ALWAN)

is certified as an Approved Applicator to coat

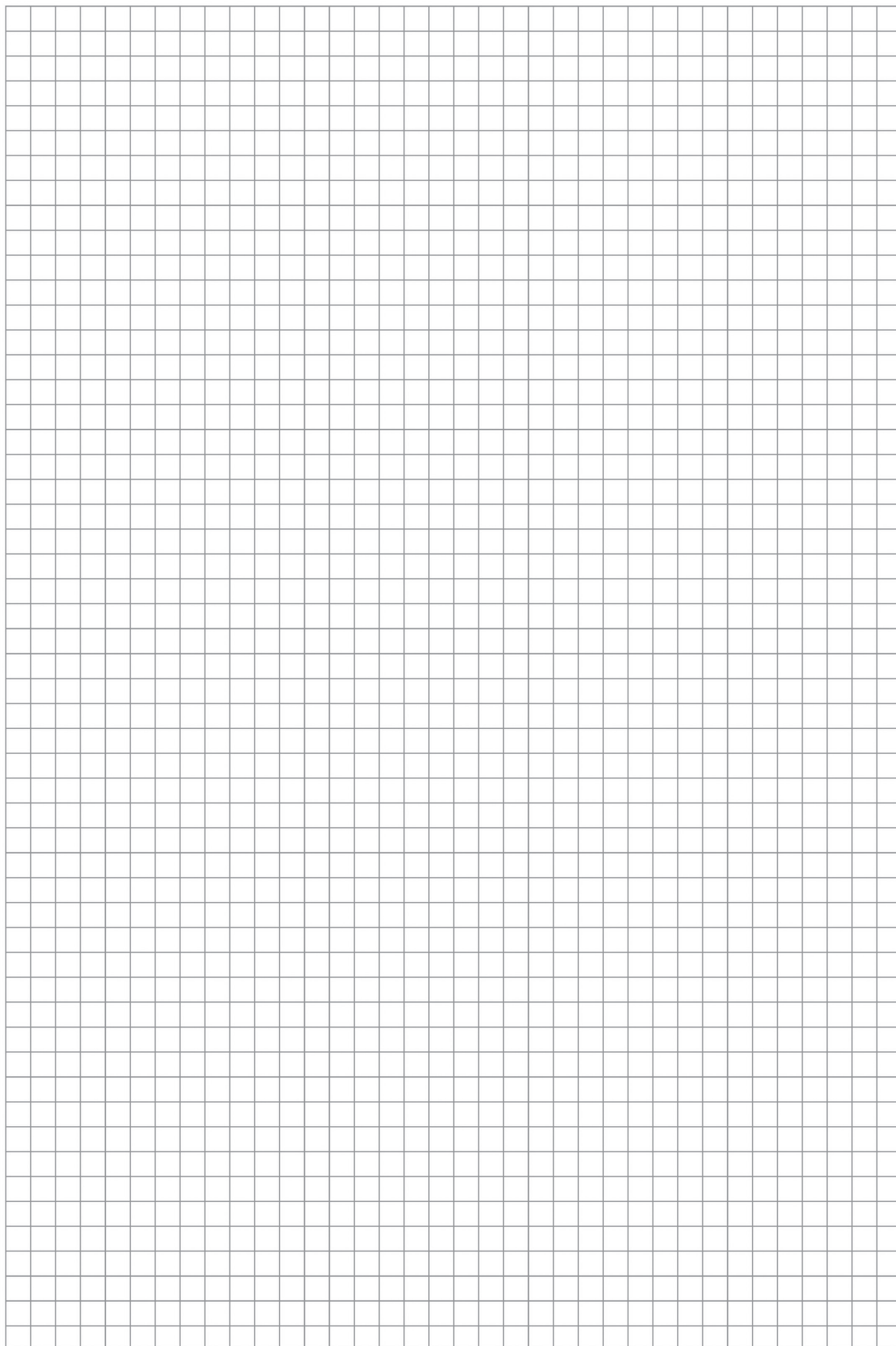
Jotun Durasol

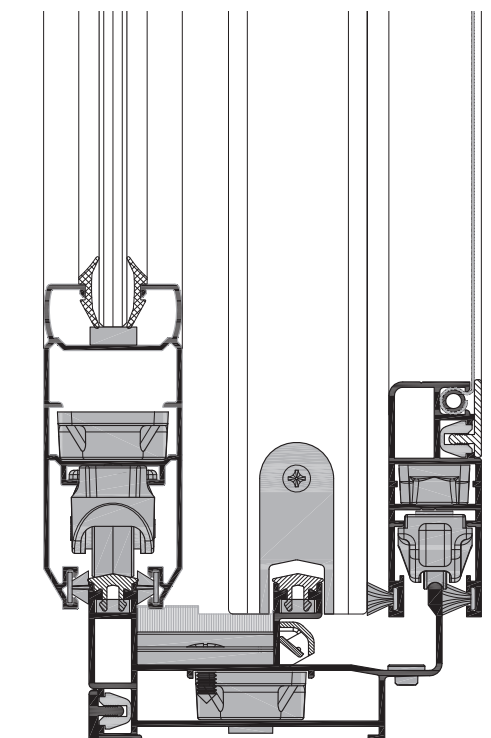
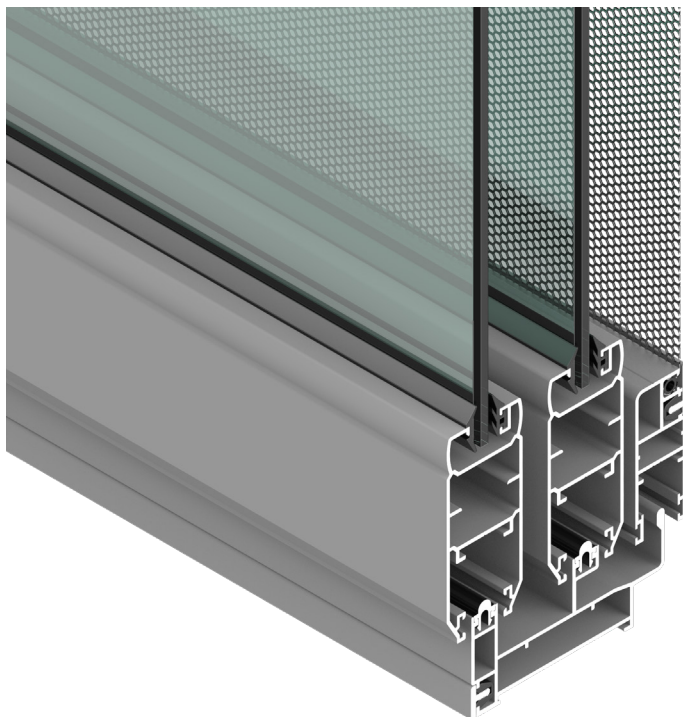
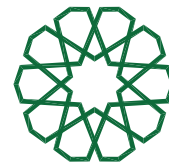
a product from Jotun Powder Coatings

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December 31, 2025
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Authorised Signatory
Jotun Powder Coatings UAE (LLC)





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

Technical Characteristics

Frame Depth

56 mm. to 74 mm.

Frame Height

37 mm. to 94 mm.

Sash Depth

30 mm.

Sash Height

60 mm. to 72 mm.

Max Glass Thickness

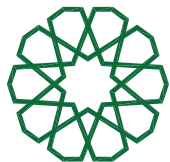
Up to 18 mm.

Max Sash Weight

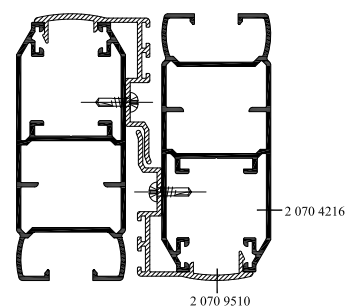
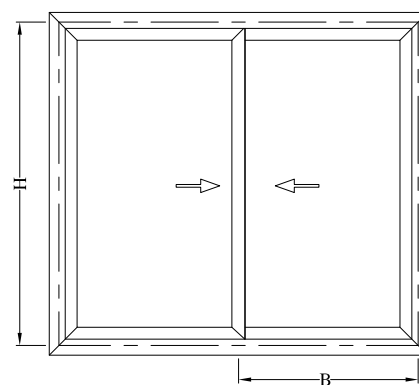
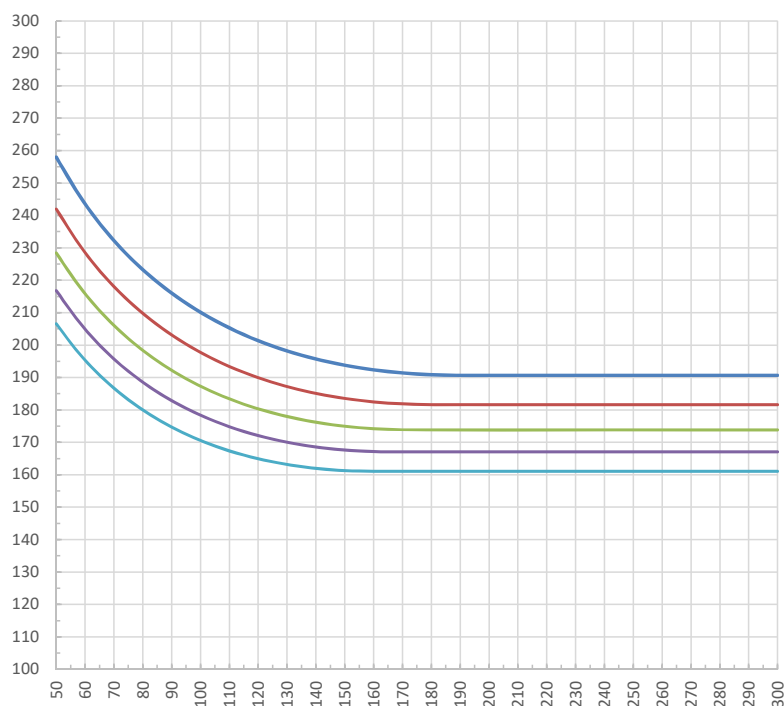
Up to 100 kg.

Sealing Type

Perimetrical, with two rows of high-density brushes

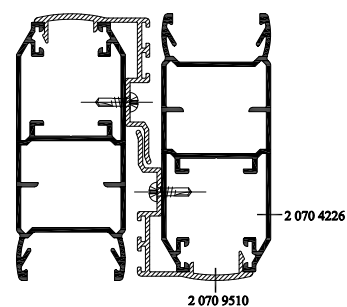
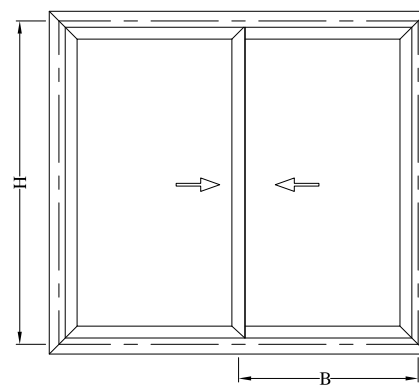
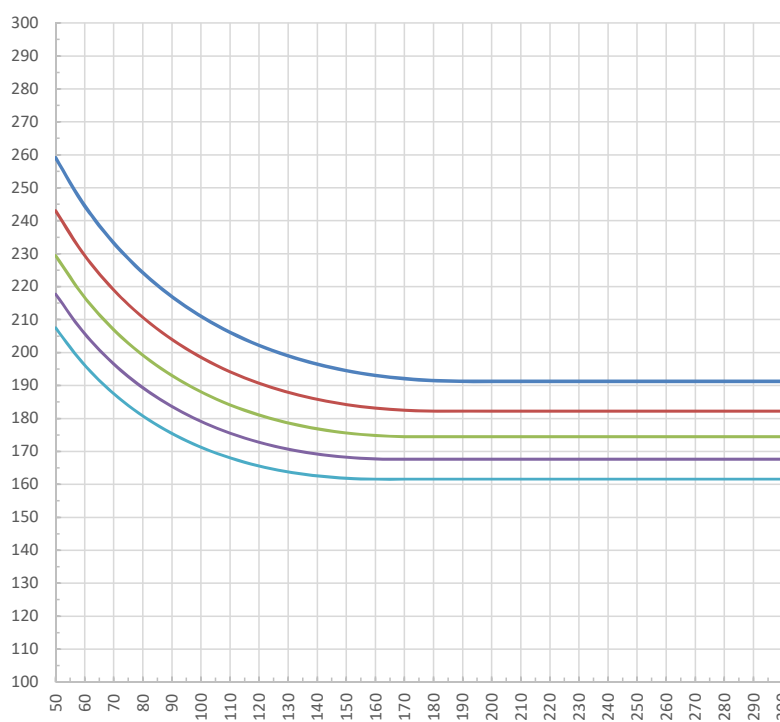


H cm. f max 1/200



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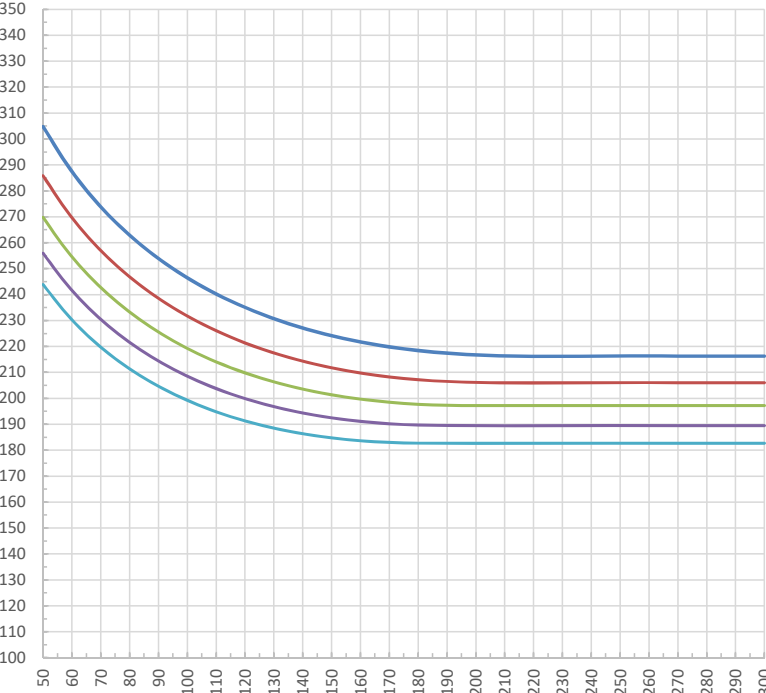
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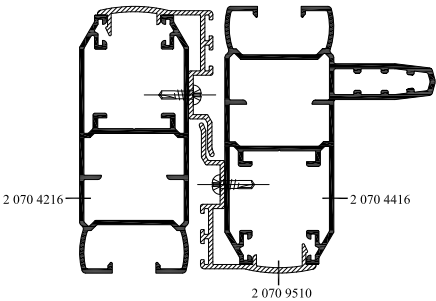
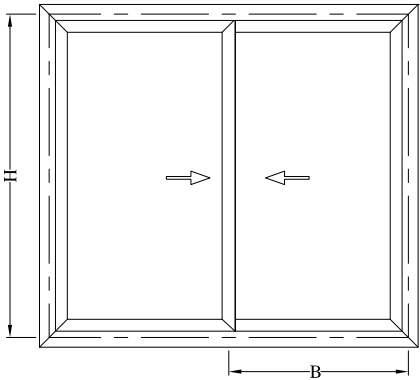
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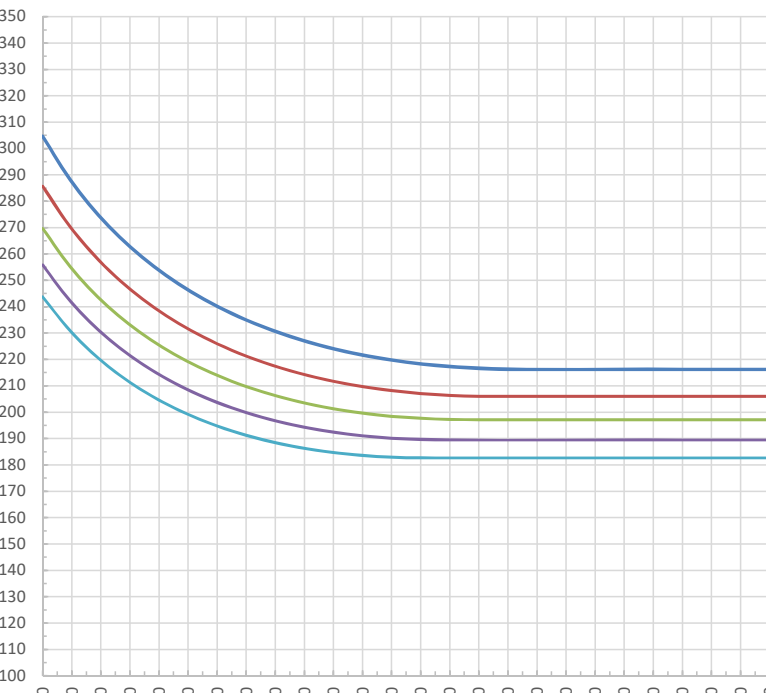


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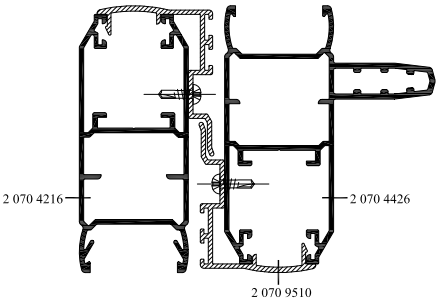
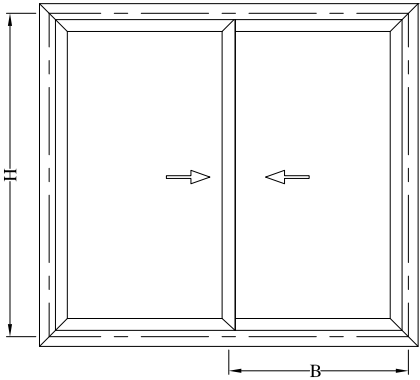


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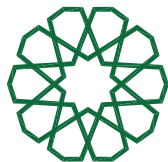
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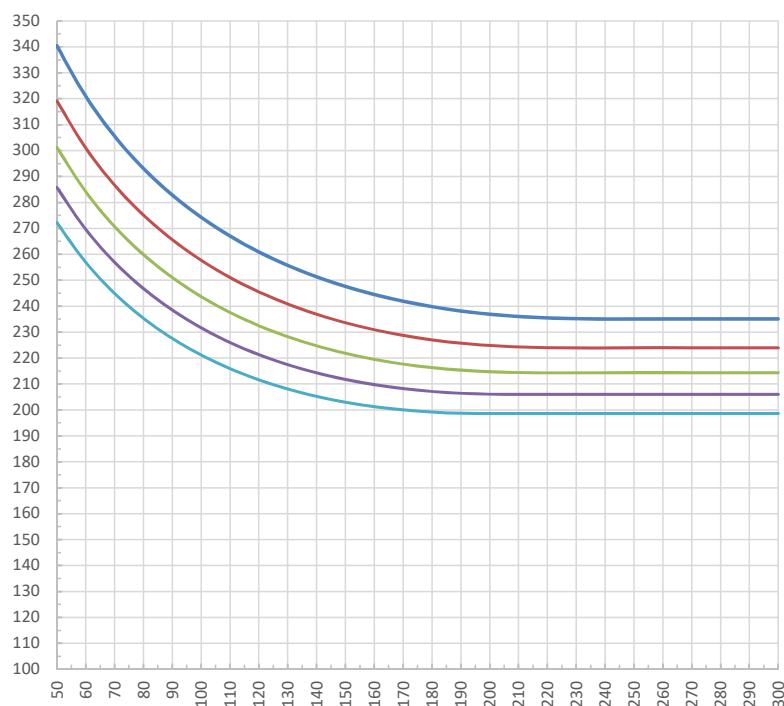
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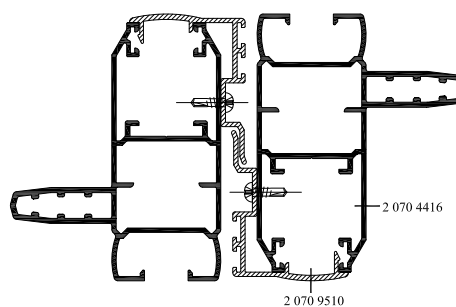
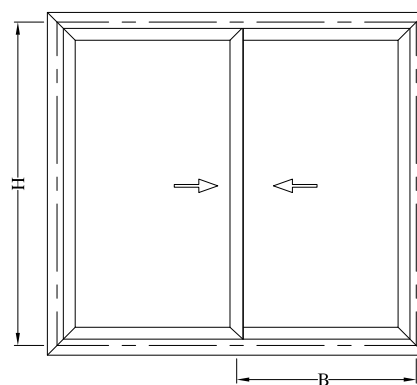
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H cm. f max 1/200

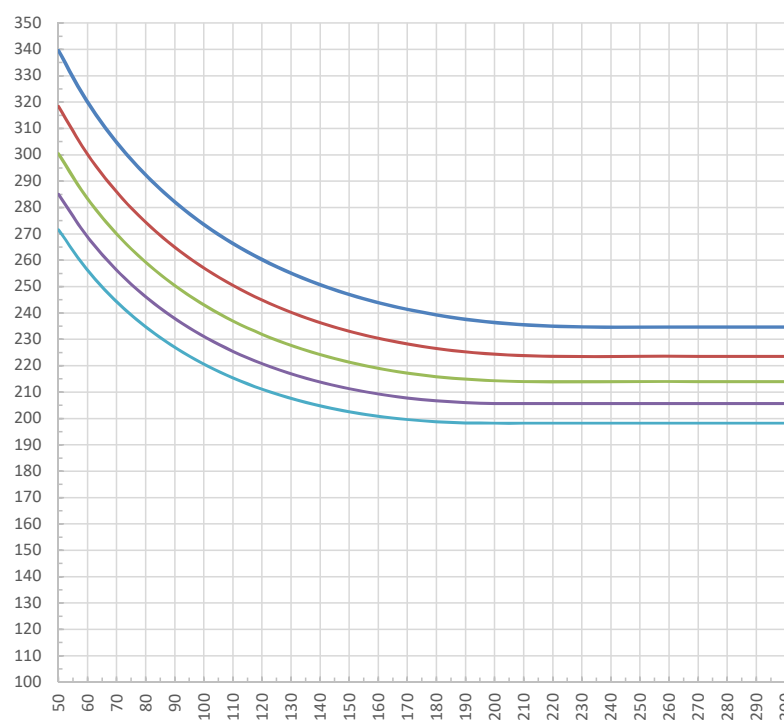


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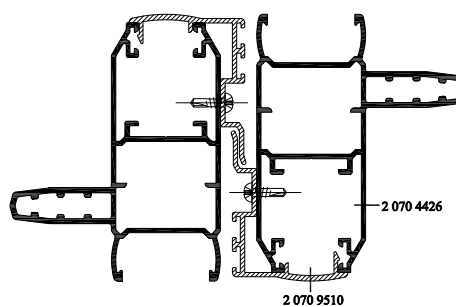
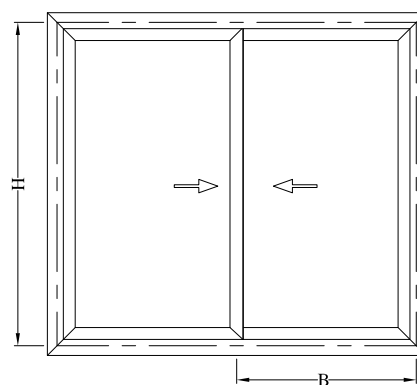


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H cm. f max 1/200



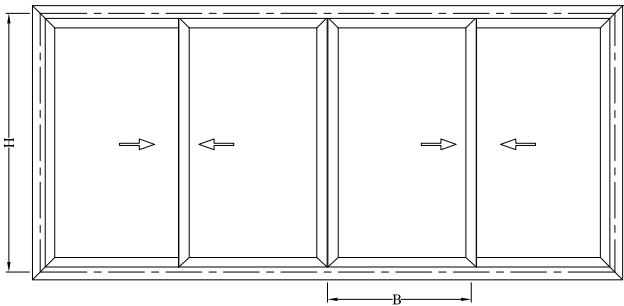
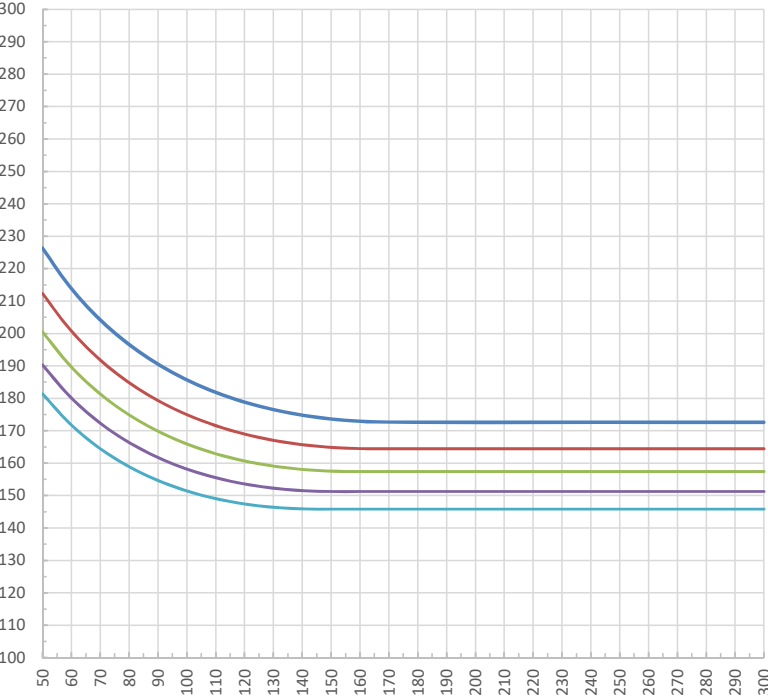
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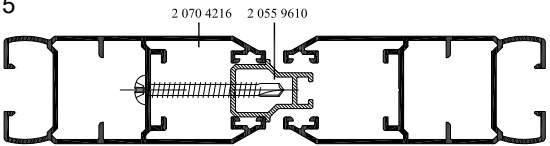
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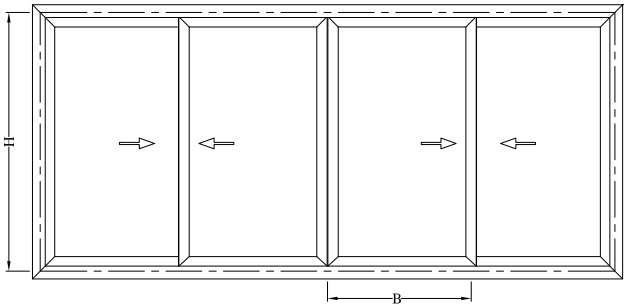
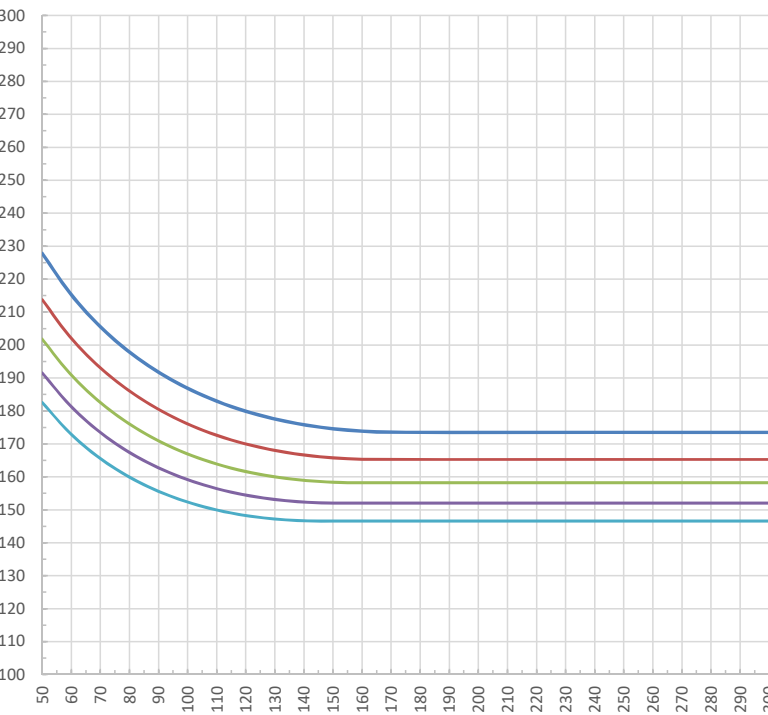
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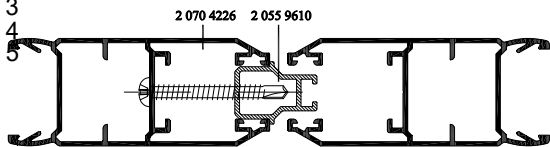
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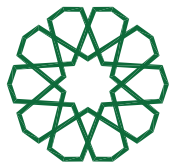


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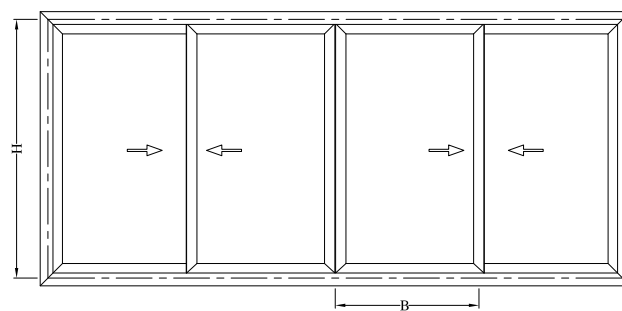
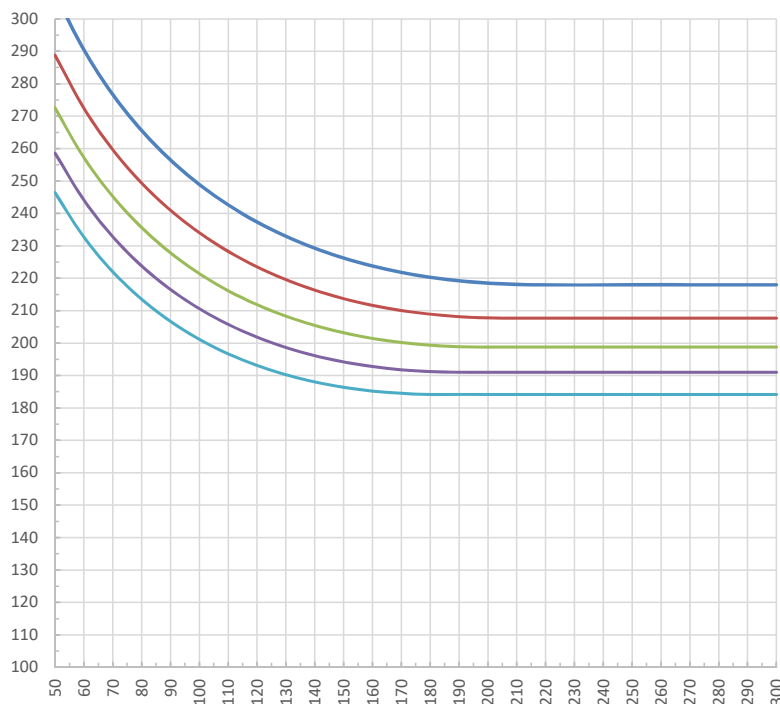


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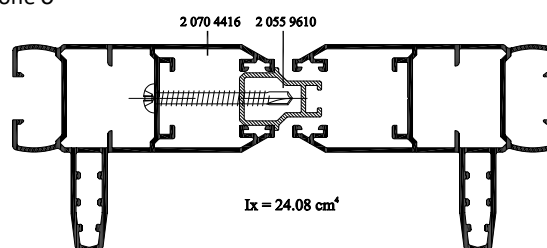
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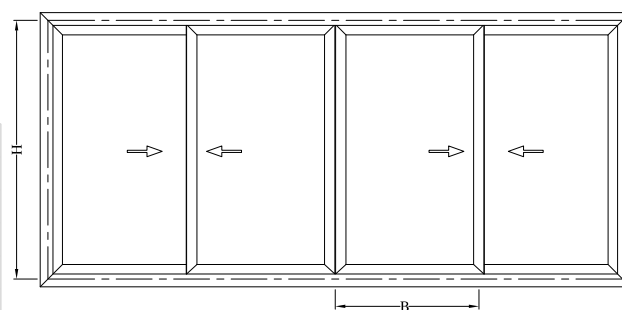
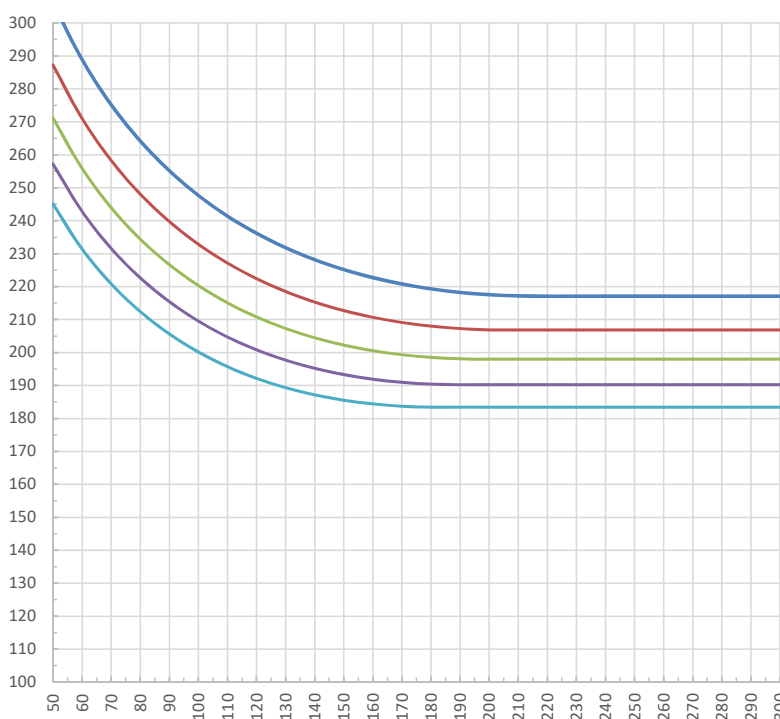


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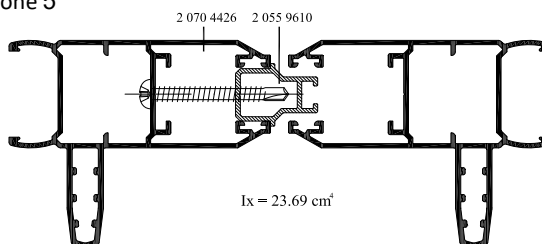


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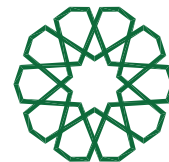
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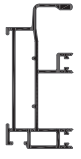
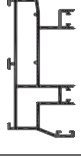
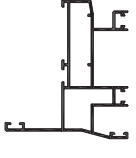
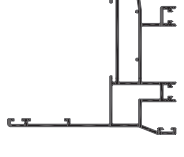
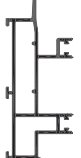
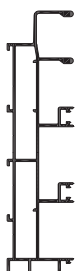


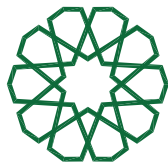
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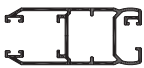
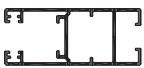
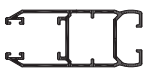
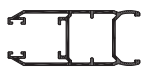
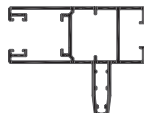
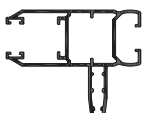
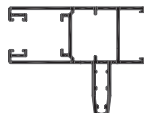
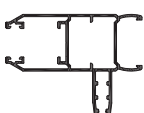


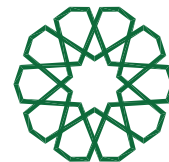
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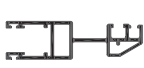
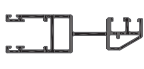
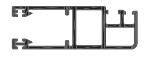


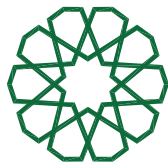
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					I _x	I _y	
	20702110	Frame profile	0.957	387	21.91	3.72	27
	20702308	Frame profile	0.962	382	19.08	3.85	27
	20702330	Frame profile	1.104	461	22.85	8.96	27
	20702350	Frame profile	1.210	520	25.42	20.34	27
	20702408	Frame profile	1.133	461	34.47	4.46	28
	20702418	Frame profile	1.173	476	35.71	4.55	28
	20702450	Frame profile	1.369	585	45.02	21.87	29
	20702710	Frame profile	1.748	658	116.71	6.50	29



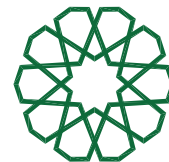
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	20704116	Leaf profile	0.896	429	4.72	15.34	30
	20704210	Leaf profile	0.905	435	4.98	16.60	30
	20704216	Leaf profile	0.853	405	4.62	14.45	30
	20704226	Leaf profile	0.856	378	4.50	12.71	30
	20704410	Leaf Profile	1.168	487	12.19	18.52	31
	20704416	Leaf profile	1.115	457	11.77	15.96	31
	20704420	Leaf Profile	1.131	459	12.06	17.05	31
	20704426	Leaf profile	1.081	429	11.56	14.56	31
	20705210	Transom Profile	0.714	271	2.29	8.48	30
	20709510	Insert profile	0.327	194	1.12	1.90	30
	1 041 2051	Frame Profile	0.819	307	9.63	3.83	32
	1 041 2061	Frame Profile	0.875	323	12.95	3.97	32
	1 045 9910	Control Rod	0.146	48	0.19	0.01	32



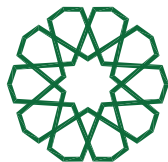
Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	2 055 9610	Insert Profile	0.232	88	0.23	0.46	32
	2 060 9210	Insert Profile	0.102	47	0.02	0.02	32
	2 060 9220	Insert Profile	0.088	45	0.01	0.02	32
	5 025 2060	Frame Profile	0.941	285	15.62	5.16	33
	5 025 2110	Fly Screen Frame Profile	0.590	203	3.52	3.28	33
	5 025 4100	Fly Screen Leaf Profile	0.419	233	2.47	0.85	33
	5 025 4140	Fly Screen Leaf Profile	0.567	268	4.96	1.17	33
	5 025 4210	Fly Screen Leaf Profile	0.535	272	4.25	1.05	33
	5 025 4230	Fly Screen Leaf Profile	0.728	328	12.53	1.18	34
	5 025 4231	Fly Screen Leaf Profile	0.728	270	1.18	12.54	33
	5 025 4240	Fly Screen Leaf Profile	0.594	265	5.15	1.23	34
	5 027 4240	Fly Screen Leaf Profile	0.760	343	2.09	11.75	34
	5 027 4241	Fly Screen Leaf Profile	0.752	368	1.94	11.77	34
	5 027 4270	Fly Screen Leaf Profile	0.760	343	2.09	11.75	34

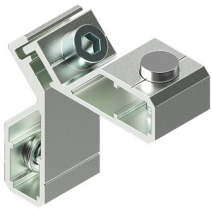
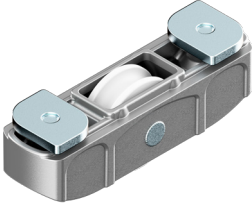
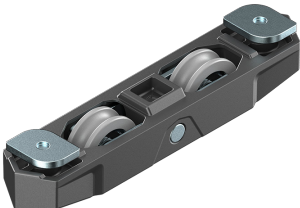


Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					I _x	I _y	
	5 027 4271	Fly Screen Leaf Profile	0.752	368	1.94	11.77	34
	5 027 7420	Fly Screen Leaf Profile	0.788	331	3.61	7.60	33
	5 027 7421	Fly Screen Leaf Profile	0.373	151	1.29	0.75	33
	5 027 9410	Insert Profile	0.297	123	1.24	0.10	33
	5 900 9100	Additional Profile	0.100	53	0.01	0.08	33
	9 001 1100	Gasket Cover	0.092	42	0.01	0.01	35
	9 001 1300	Gasket Cover	0.240	116	1.66	0.03	35
	9 001 1302	Gasket Cover	0.308	154	2.05	0.24	35
	9 001 1303	Gasket Cover	0.285	156	1.95	0.17	35
	9 001 1304	Gasket Cover	0.259	131	1.81	0.05	35
	9 001 1305	Gasket Cover	0.275	139	1.76	0.05	35
	9 001 1308	Gasket Cover	0.291	140	1.89	0.27	35
	9 001 1500	Gasket Cover	0.348	183	6.10	0.03	36
	9 001 1502	Gasket Cover	0.424	204	6.64	0.38	36

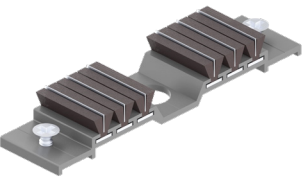
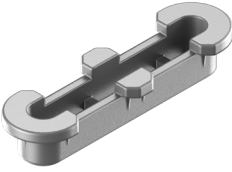


Section	Profile no.	Description	Weight kg/m	Perimeter mm	Inertia		Page No.
					Ix	Iy	
	9 001 1503	Gasket Cover	0.402	219	7.49	0.32	36
	9 001 1504	Gasket Cover	0.370	191	6.73	0.07	36
	9 001 1505	Gasket Cover	0.383	194	6.40	0.07	36
	9 001 1507	Gasket Cover	0.383	186	6.30	0.04	36
	9 001 1700	Gasket Cover	0.418	215	11.29	0.04	36
	9 001 1702	Gasket Cover	0.473	233	11.31	0.43	36
	9 002 1200	Gasket Cover	0.181	81	0.01	0.11	35



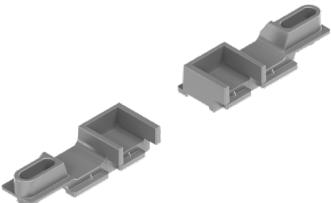
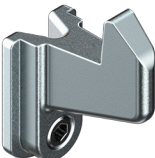
 01 3019 0	Corner Joint Material: Aluminium Finish: Raw	 01 8755 0	Alignment Angle Material: Polyamide Finish: Black
 01 4240 0	Corner Joint Material: Aluminium Finish: Raw	 01 8757 0	Alignment Angle Material: Polyamide Finish: Black
 01 4270 0	Corner Joint Material: Aluminium Finish: Raw	 20 2520 0	Single Roller Material: Polyamide Finish: Black
 01 6730 0	Alignment Angle Material: Aluminium Finish: Raw	 20 2620 0	Single Roller Material: Polyamide Finish: Black
 01 7710 0	Alignment Angle Material: Steel Finish: Galvanized	 20 4770 0	Double Roller Material: Polyamide Finish: Black
 01 8700 0	Alignment Angle Material: Polyamide Finish: Black	 20 4780 0	Double Roller Material: Polyamide Finish: Black



 22 1700 0	Anti-dust Cap Material: Aluminium Finish:Raw, Anodized, RAL	 30 1200 0	OMEGA Cremone Handle Material: Aluminium Finish: Raw, Ral
 24 1650 0	Cover Cap Material: Polyamide Finish: Black	 30 1750 1	GAMA Cremone Handle Material: Aluminium Finish: Raw, Ral
 26 3590 0	Shock Absorber and Guide Material: Polyamide Finish: Black	 *42 1170 0	ATLAS Lateral Handle 200 mm. Material: Aluminium Finish:Raw, Anodized, RAL
 28 1100 0	Drainage Cover Material: Polyamide Finish: Black	 *42 1460 0	ABIDOS Lateral Handle Material: Aluminium (Polyamide Core) Finish:Raw, Anodized, RAL
 28 2200 0	Drainage Cover Material: Polyamide Finish: Black	 *42 2230 0	TABA Lateral Handle Material: Aluminium Finish:Natural, Anodized, RAL
 28 2300 0	Drainage Cover Material: Polyamide Finish: Black	 42 2420 0	MENA Lateral Handle Material: Aluminium Finish:Raw, Anodized, RAL

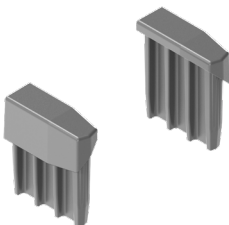
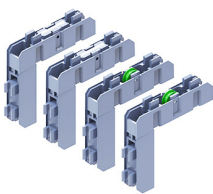
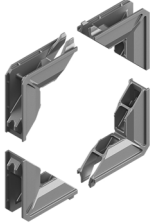
*Available in Both Automatic and Stainless Steel Models

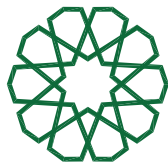


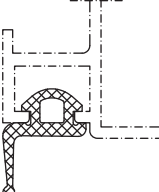
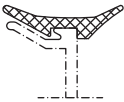
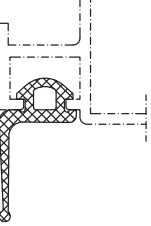
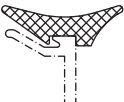
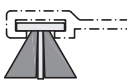
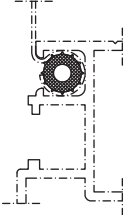
 *42 3400 0	SIWA Lateral Handle Material: Aluminium Finish:Raw, Anodized, RAL	 48 2100 0	ISIS Handle Intermediate 10 cm Material: Aluminium Finish:Raw, Anodized, RAL
 *42 3440 0	NUBIA Lateral Handle Material: Aluminium Finish:Raw, Anodized, RAL	 48 2160 0	ISIS Handle Intermediate 16 cm Material: Aluminium Finish:Raw, Anodized, RAL
 *42 3460 0	RASHEED Lateral Handle Material: Aluminium Finish:Raw, Anodized, RAL	 50 0515 0	Connection Point Material: Polyamide Finish: Black
 46 1540 0	NOVA Pull Handle Material: Aluminium Finish:Raw, Anodized, RAL	 55 1910 0	Locking Point Material: Zama Finish: Galvanized
 46 2560 0	ESNA Pull Handle Material: Aluminium Finish: Raw, Ral	 58 1030 0	Striker Material: Zama Finish: Galvanized
 46 2570 0	SETRA Pull Handle Material: Aluminium Finish: Raw, Ral	 60 0500 0	Clip Material: Polyamide Finish: Black

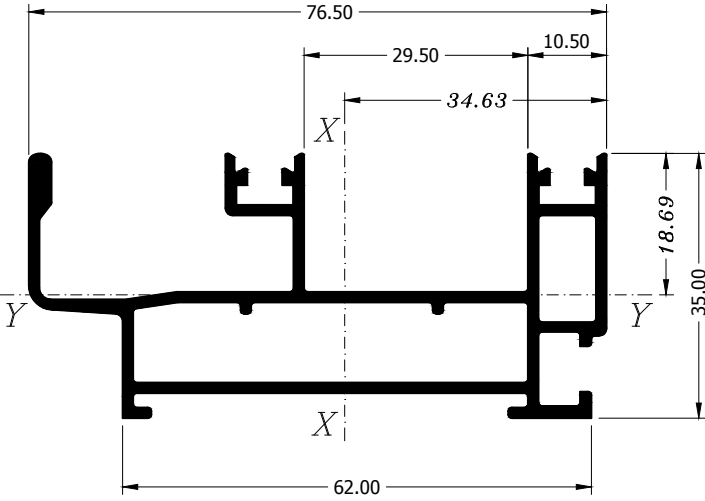
*Available in Both Automatic and Stainless Steel Models



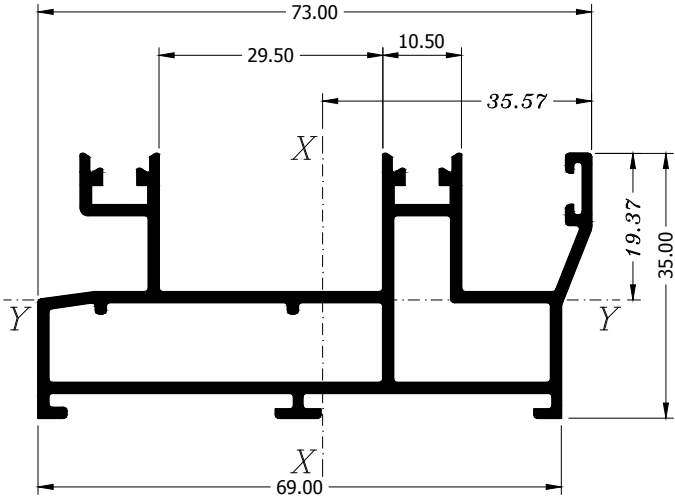
 64 1055 0	Central Plug Material: Polyamide Finish: Black	 72 1202 0	Flyscreen Roller Material: Polyamide Finish: Black
 64 2062 0	Stiffner Plug Material: Polyamide Finish: Black	 72 1330 0	Flyscreen Slider Material: Polyamide Finish: Black
 72 1010 0	Multi Function Flyscreen Angle Material: Polyamide Finish: Black	 72 1451 0	Flyscreen Handle Material: Polyamide Finish: Black
 72 1012 0	Alignment Angle Material: Polyamide Finish: Black	 72 1551 0	Flyscreen Handle Material: Aluminium Finish: Black
 72 1110 0	Multi Function Flyscreen Angle Material: Polyamide Finish: Black	 72 1556 0	Flyscreen Handle Material: Aluminium Finish: Black



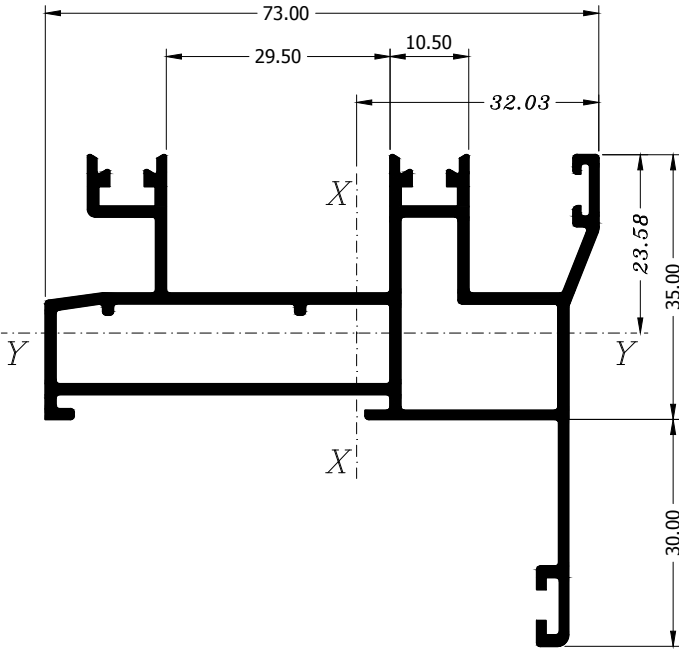
 GT 1121	Glazing Gasket 1:2 mm. Material: E.P.D.M Finish: Black	 GT 1200	Frame Gasket Material: E.P.D.M Finish: Black
 GT 1122	Glazing Gasket 2:3 mm. Material: E.P.D.M Finish: Black	 GT 1201	Frame Gasket Material: E.P.D.M Finish: Black
 GT 1124	Glazing Gasket 4:5 mm. Material: E.P.D.M Finish: Black	 WS 0507	Weather Strip 5x7 Material: Finish: Black
 GT 1152	Frame Gasket 1:2 mm. Material: E.P.D.M Finish: Black	 WS 0510	Weather Strip 5x10 Material: Finish: Black
 GT 1181	FlyScreen Gasket Material: E.P.D.M Finish: Black	 WS 0707 F	Weather Strip 7x7 Material: Finish: Black



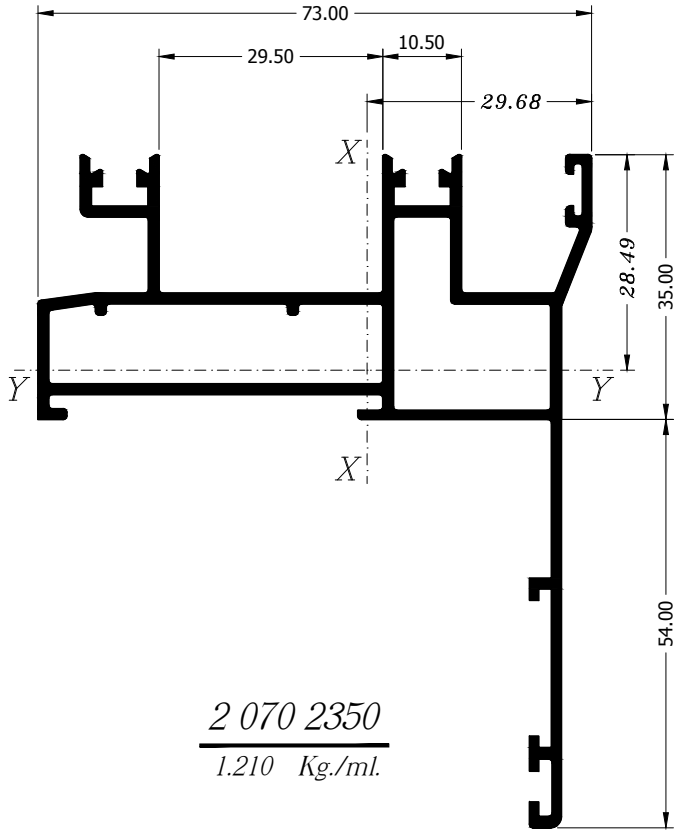
2 070 2110
0.957 Kg./ml.



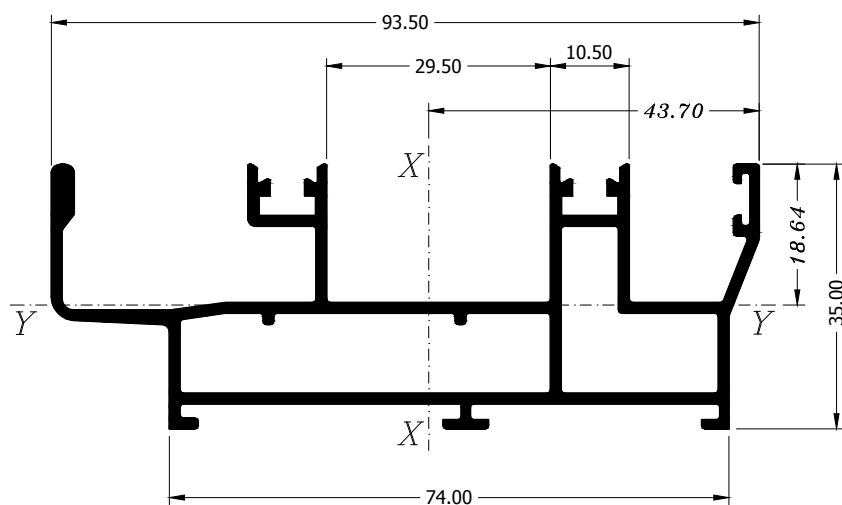
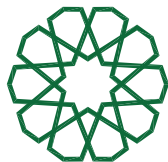
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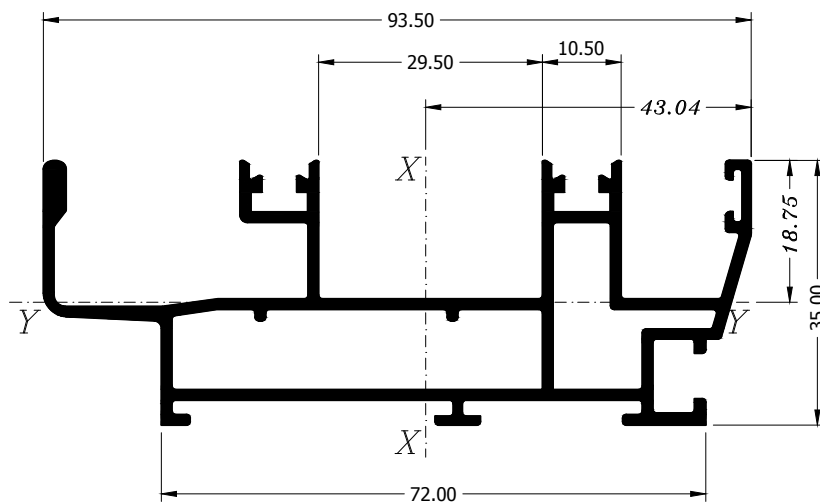
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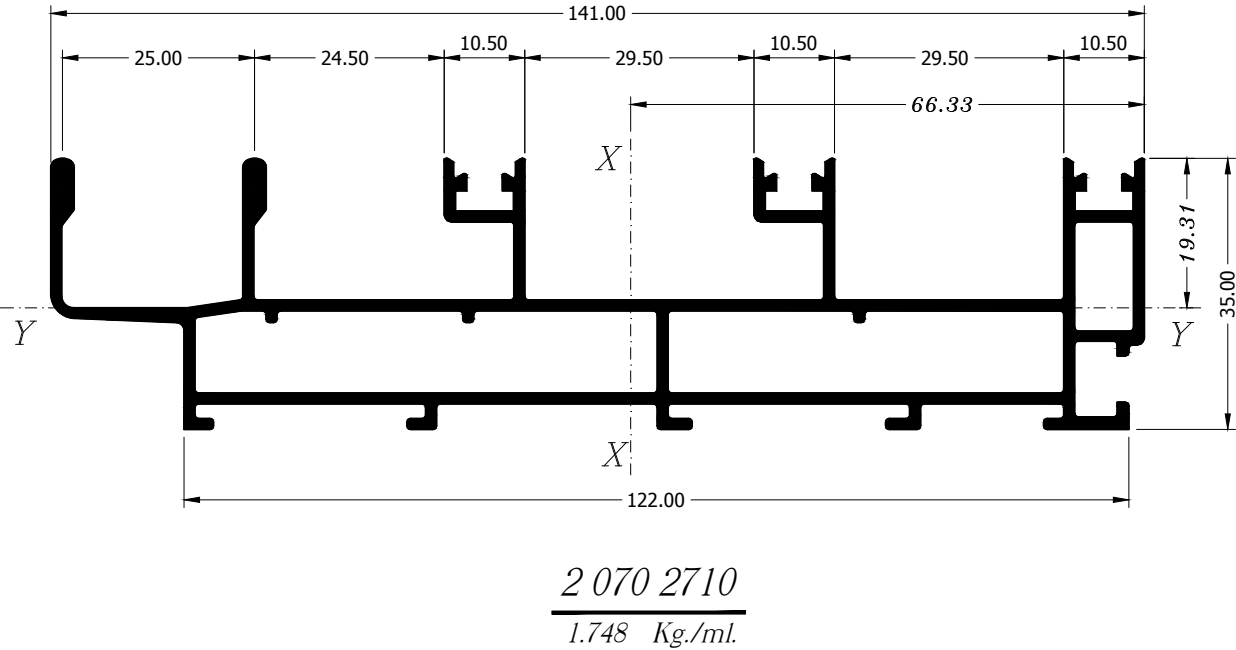
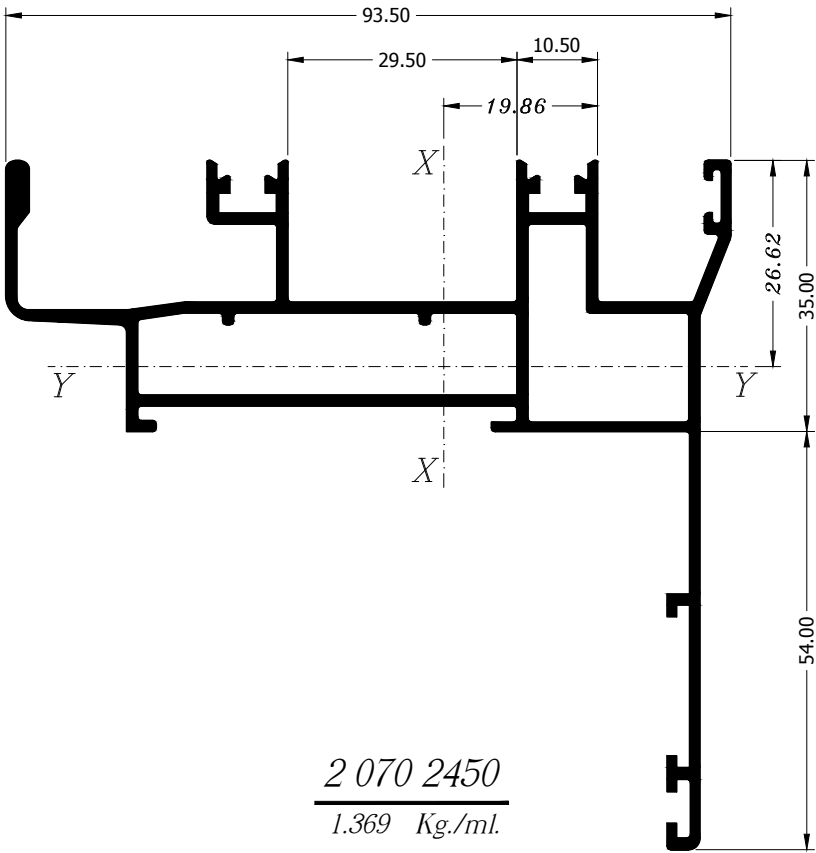
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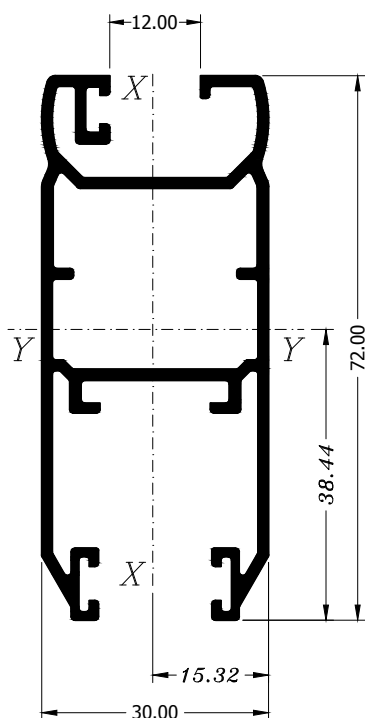
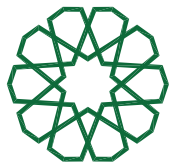


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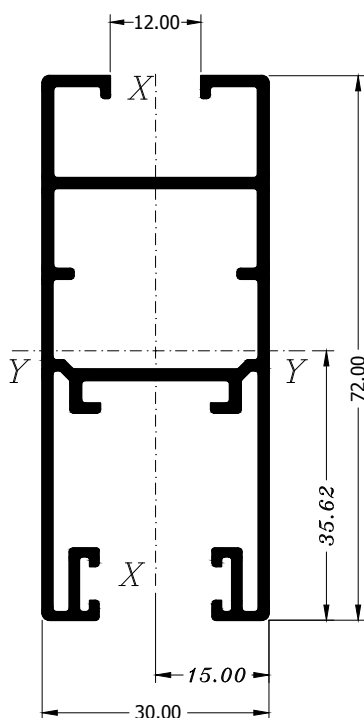


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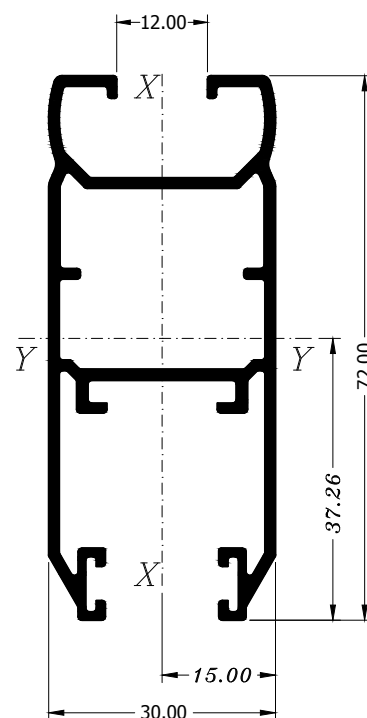




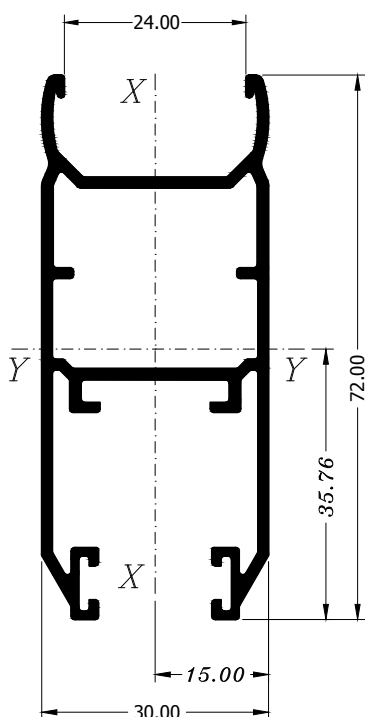
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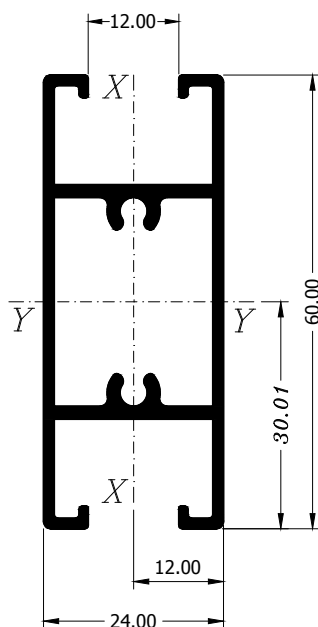
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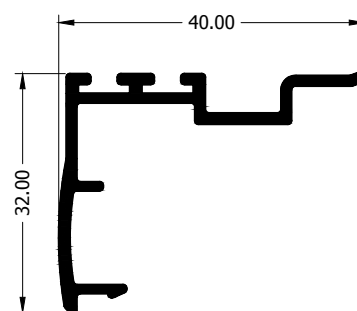
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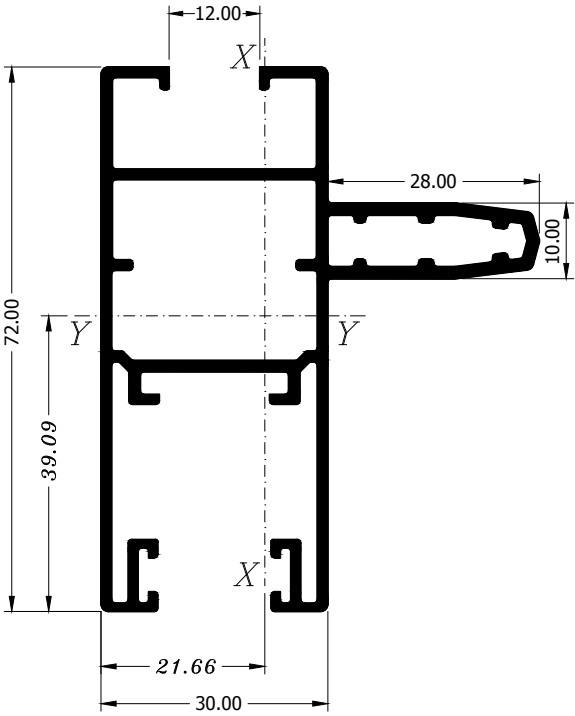
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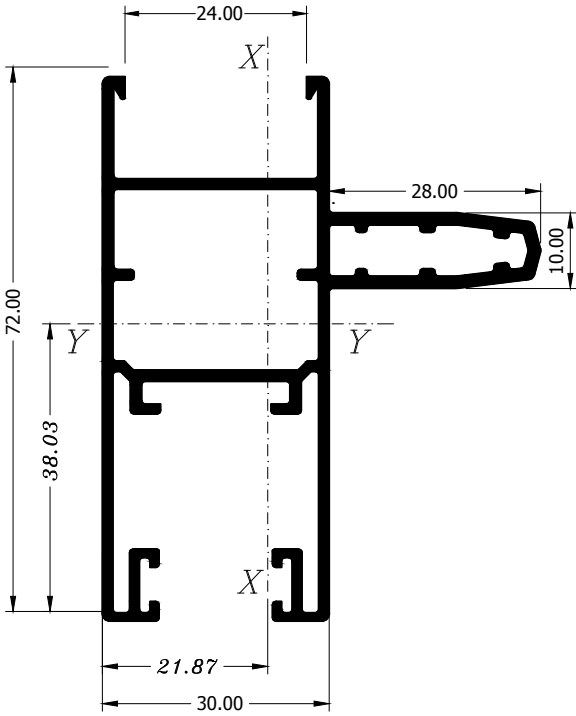
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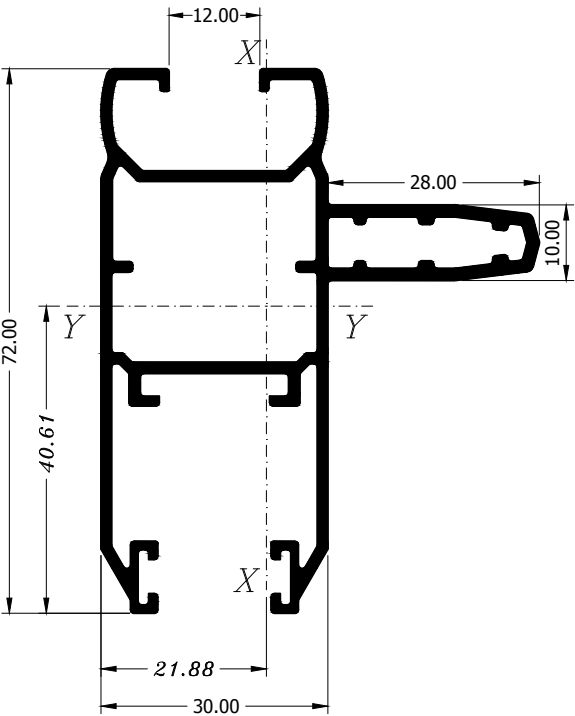
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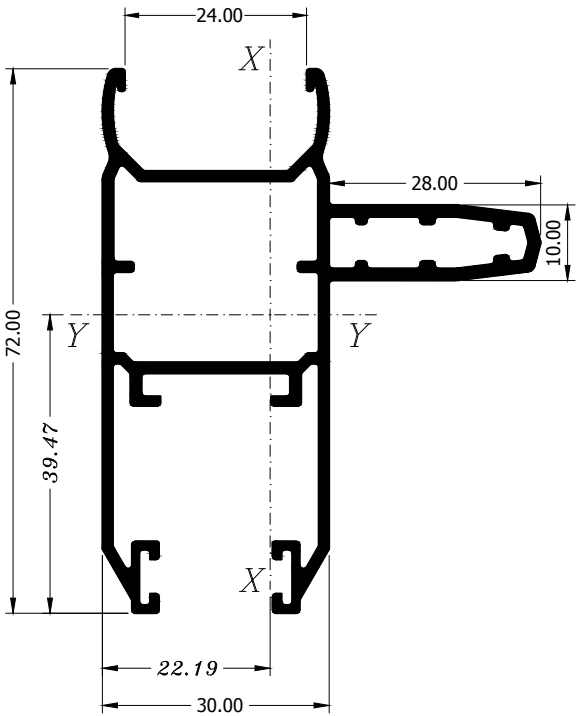
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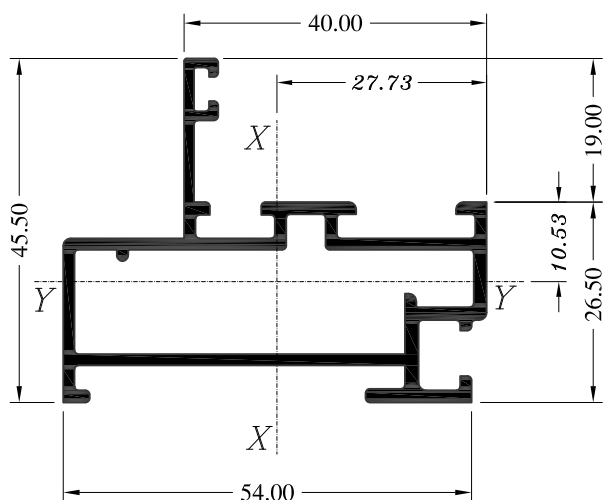
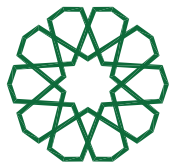
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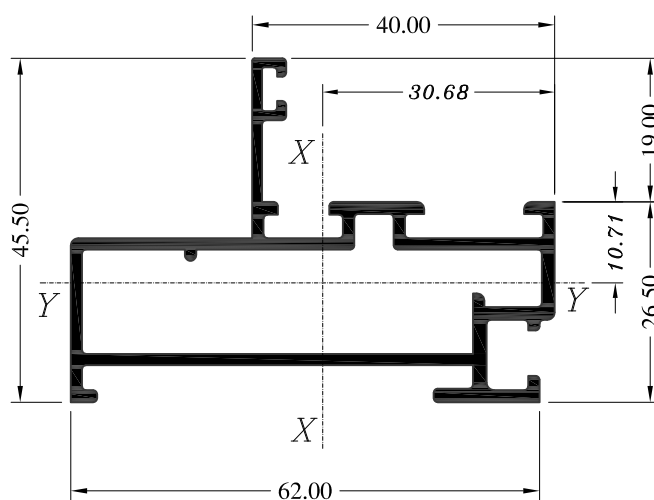
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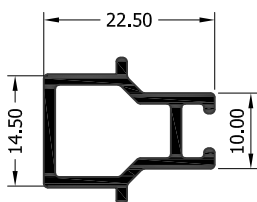
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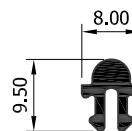
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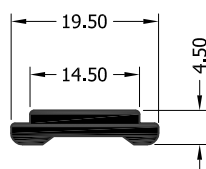
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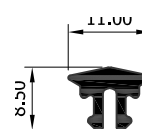
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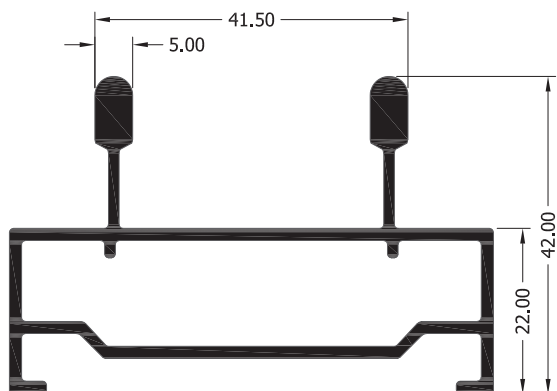
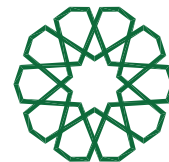
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1 045 9910
0.146 Kg./ml.

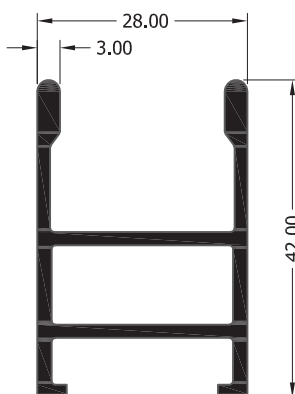


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5 025 2060

0.941 Kg./ml.



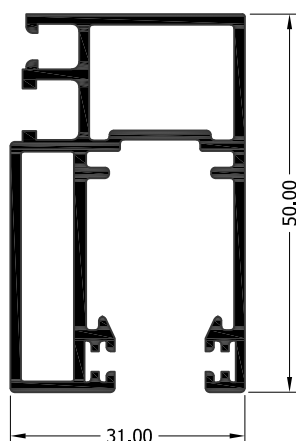
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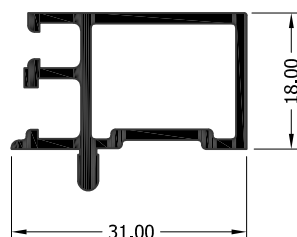
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0.100 Kg./ml.



5 027 7420

0.788 Kg./ml.



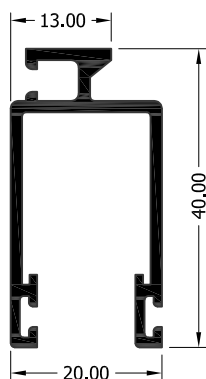
5 027 7421

0.373 Kg./ml.



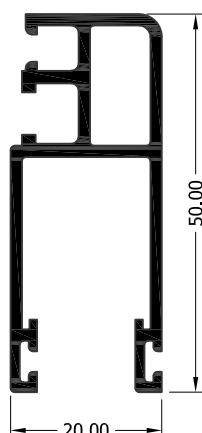
5 027 9410

0.297 Kg./ml.



5 025 4100

0.419 Kg./ml.



5 025 4140

0.567 Kg./ml.



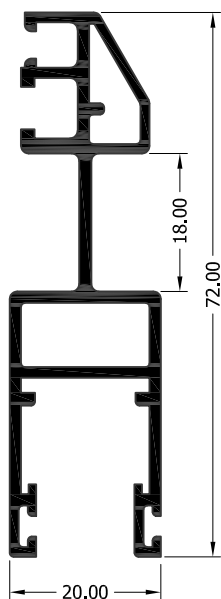
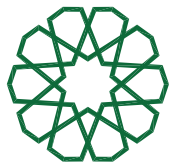
5 025 4210

0.535 Kg./ml.

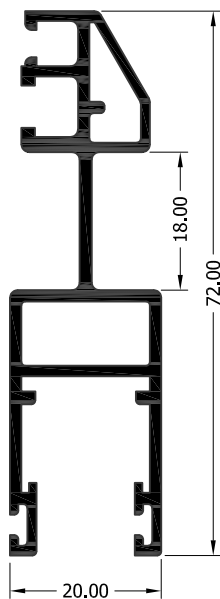


5 025 4240

0.594 Kg./ml.



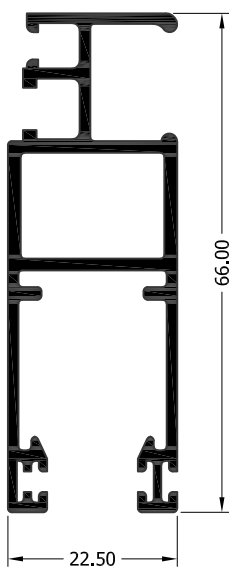
5 025 4230
0.728 Kg./ml.



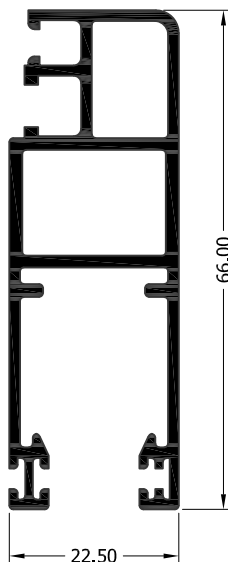
5 025 4231
0.728 Kg./ml.



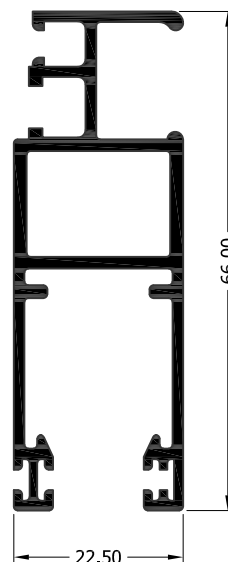
5 027 4240
0.760 Kg./ml.



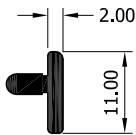
5 027 4241
0.752 Kg./ml.



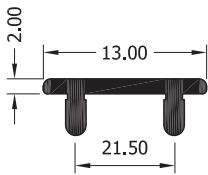
5 027 4270
0.760 Kg./ml.



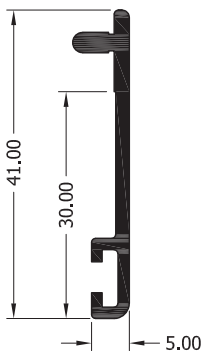
5 027 4271
0.752 Kg./ml.



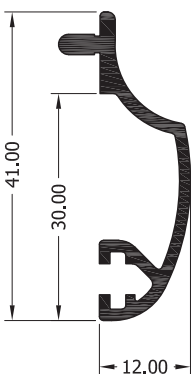
9 001 1100
0.092 Kg./ml.



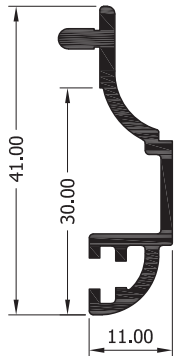
9 002 1200
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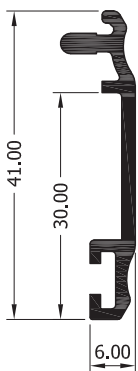
9 001 1300
0.240 Kg./ml.



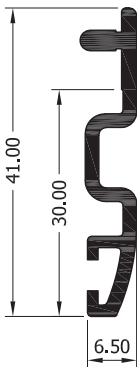
9 001 1302
0.311 Kg./ml.



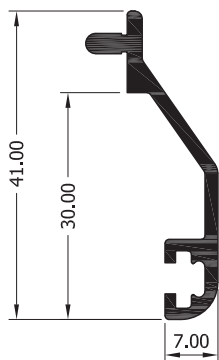
9 001 1303
0.284 Kg./ml.



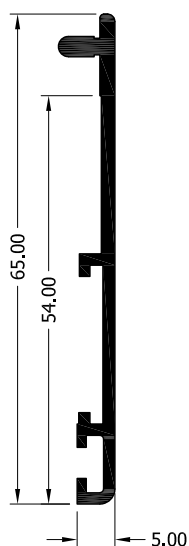
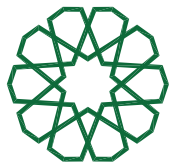
9 001 1304
0.259 Kg./ml.



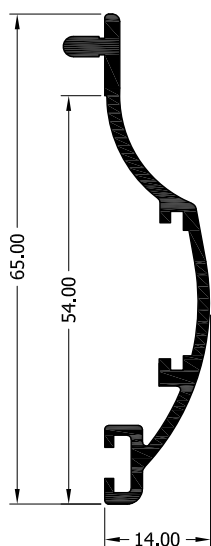
9 001 1305
0.275 Kg./ml.



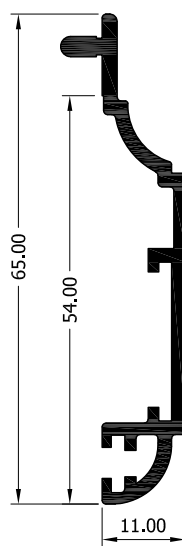
9 001 1308
0.291 Kg./ml.



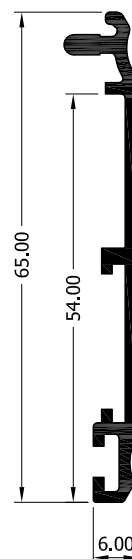
9 001 1500
0.348 Kg./ml.



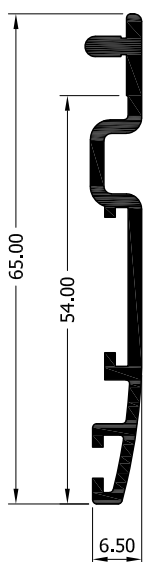
9 001 1502
0.424 Kg./ml.



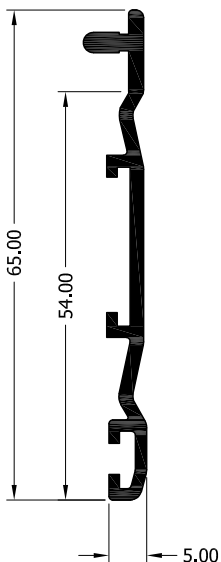
9 001 1503
0.402 Kg./ml.



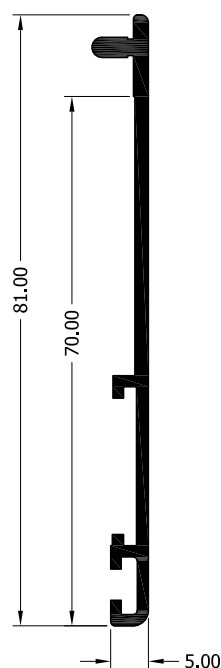
9 001 1504
0.370 Kg./ml.



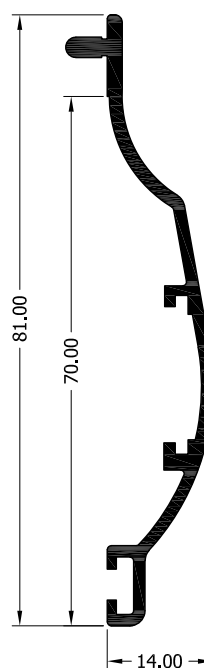
9 001 1505
0.383 Kg./ml.



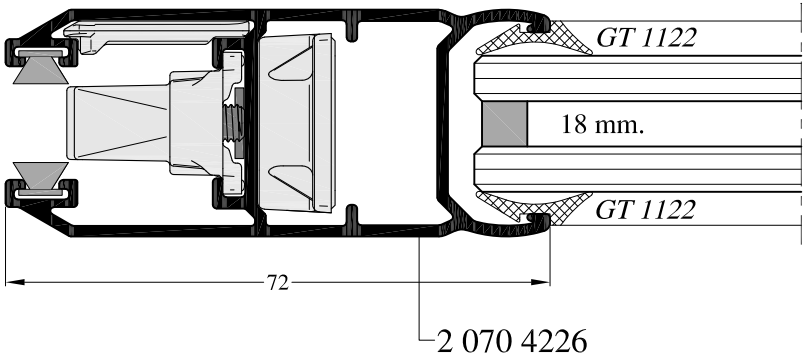
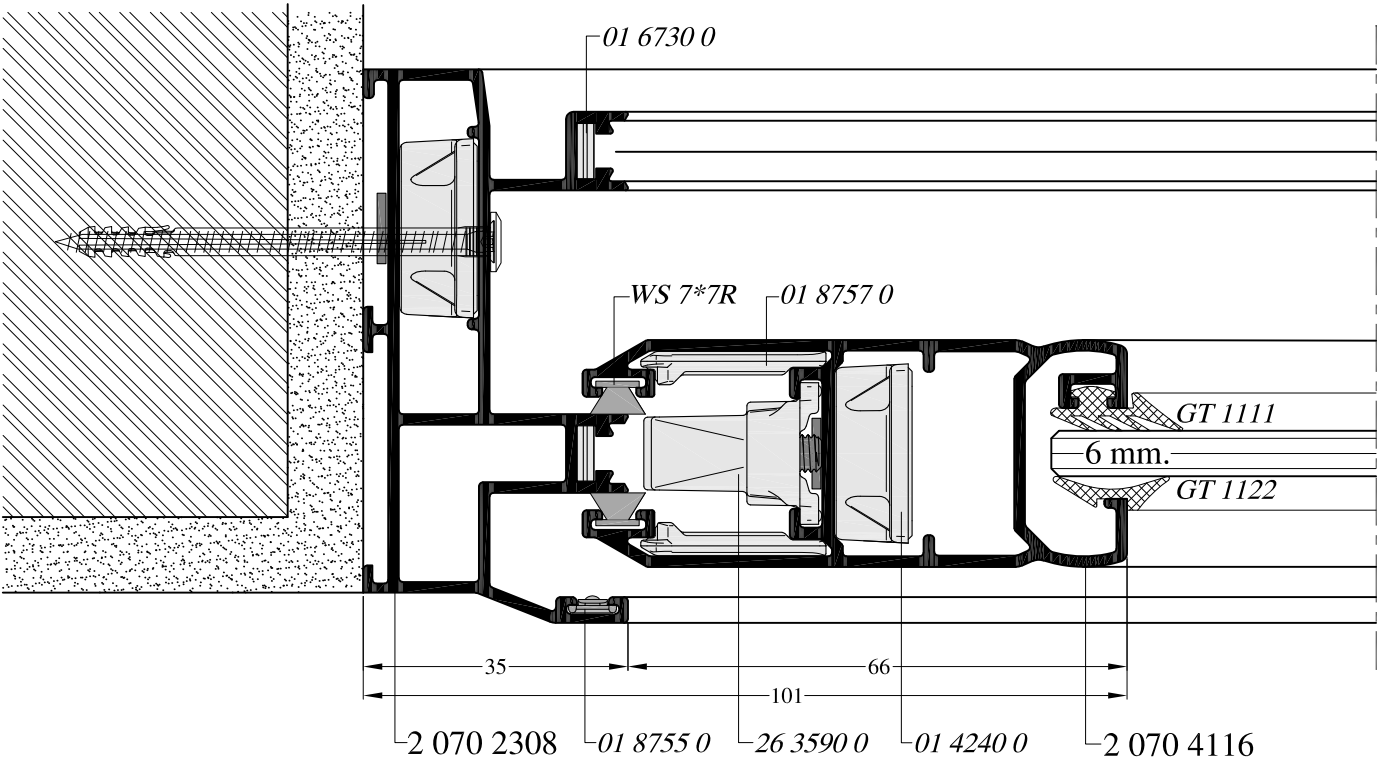
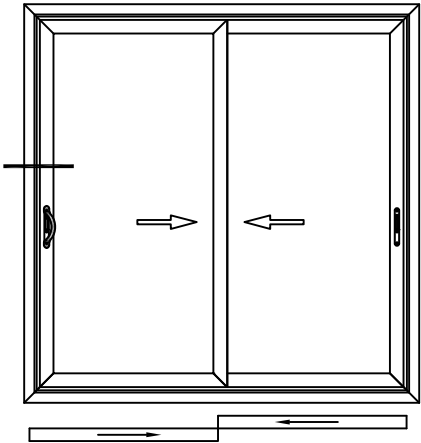
9 001 1507
0.383 Kg./ml.

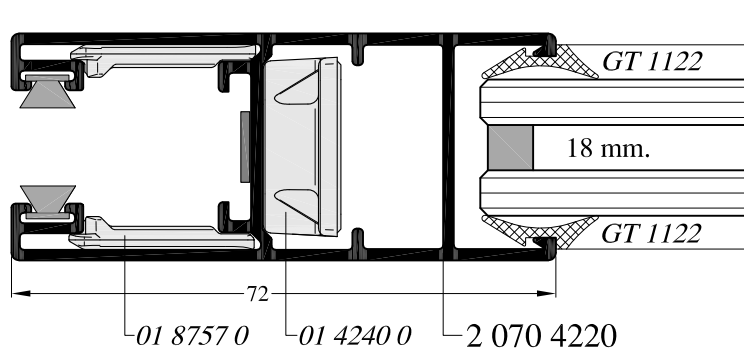
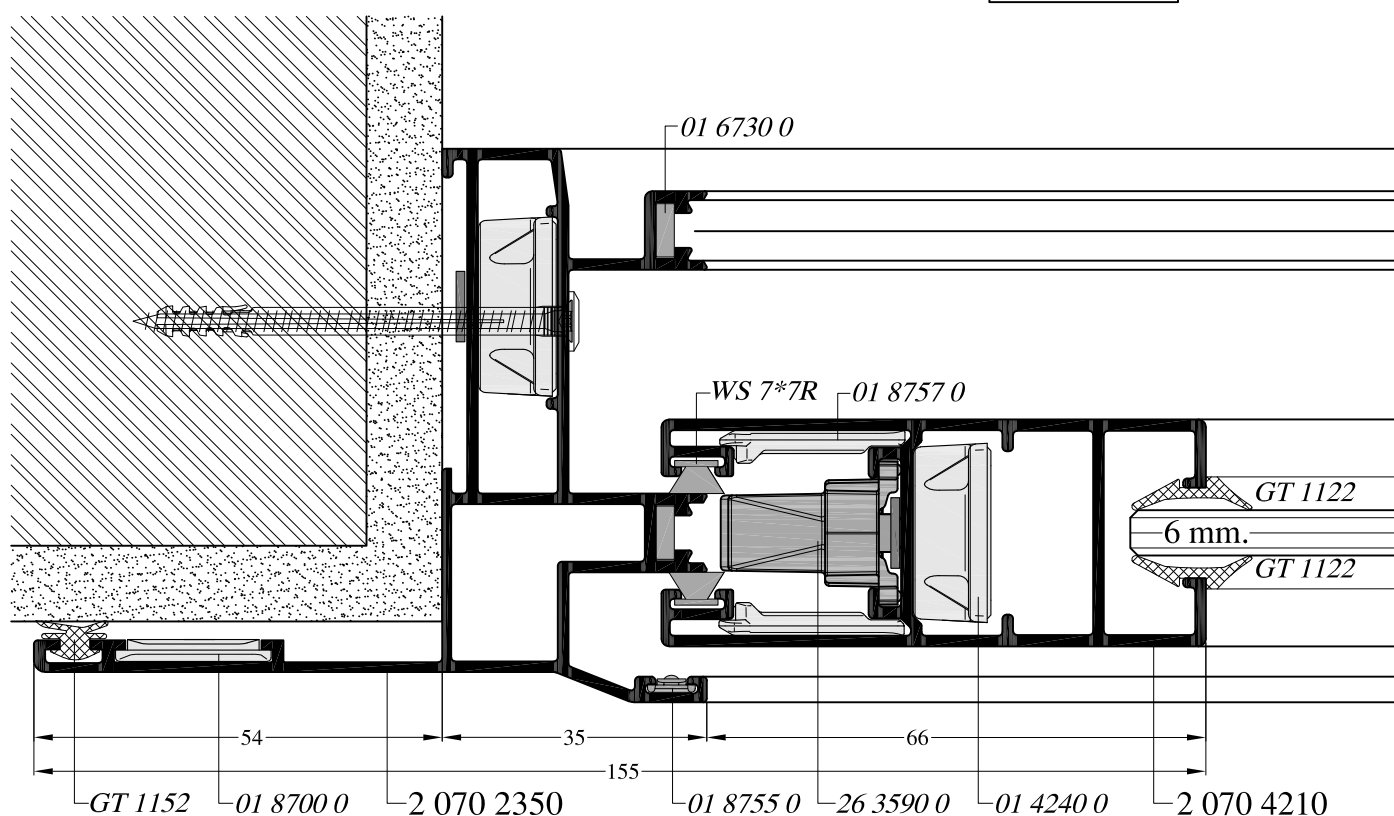
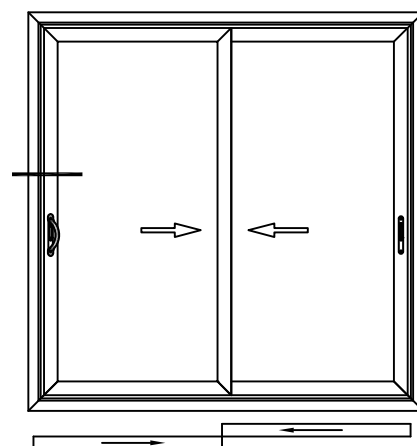
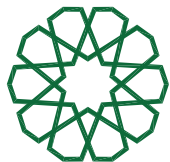


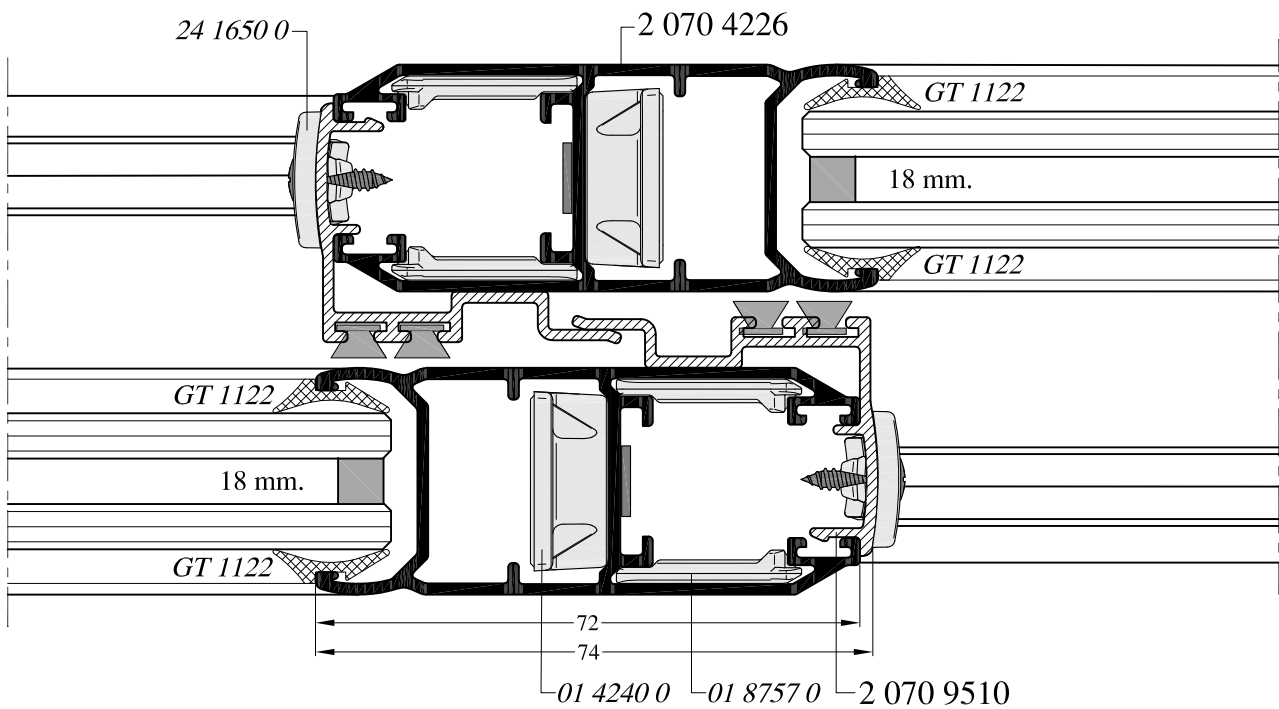
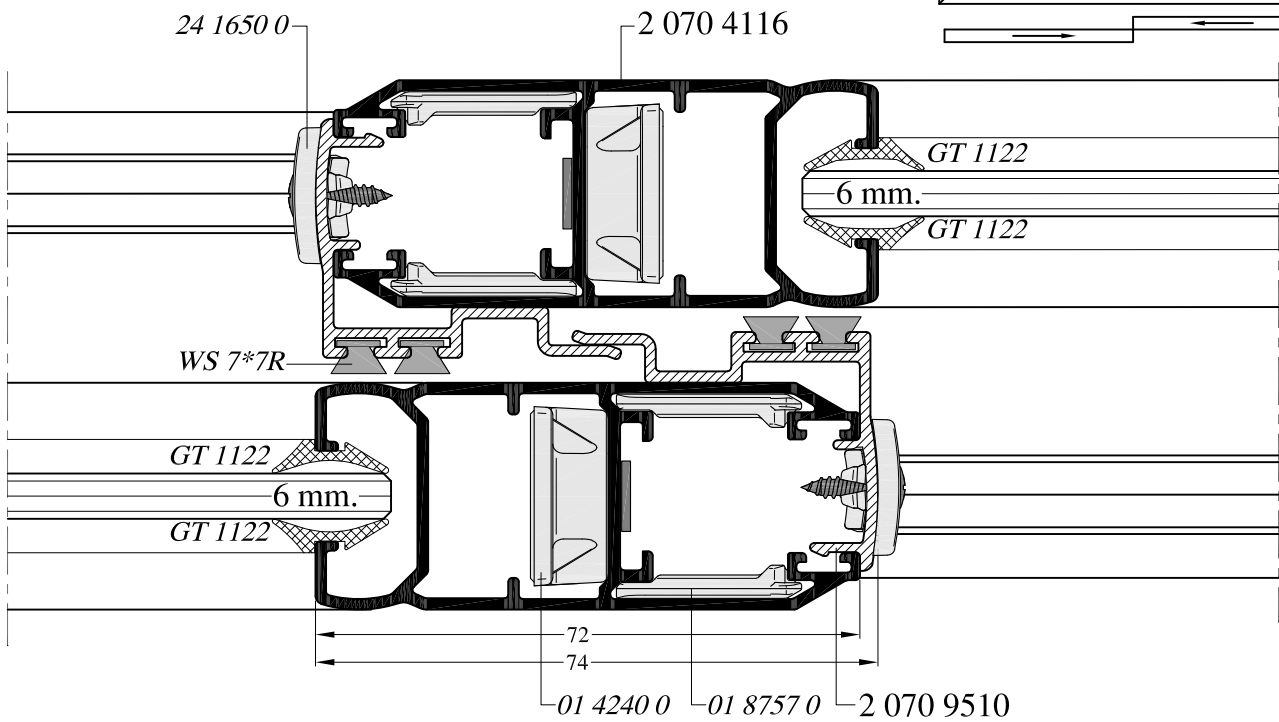
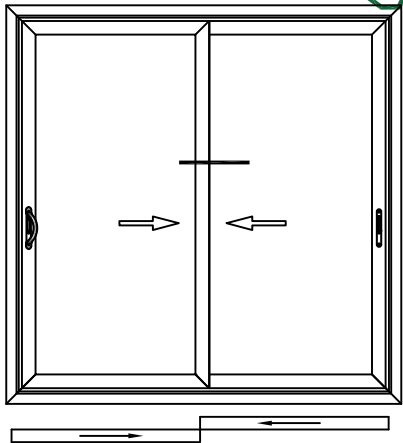
9 001 1700
0.418 Kg./ml.

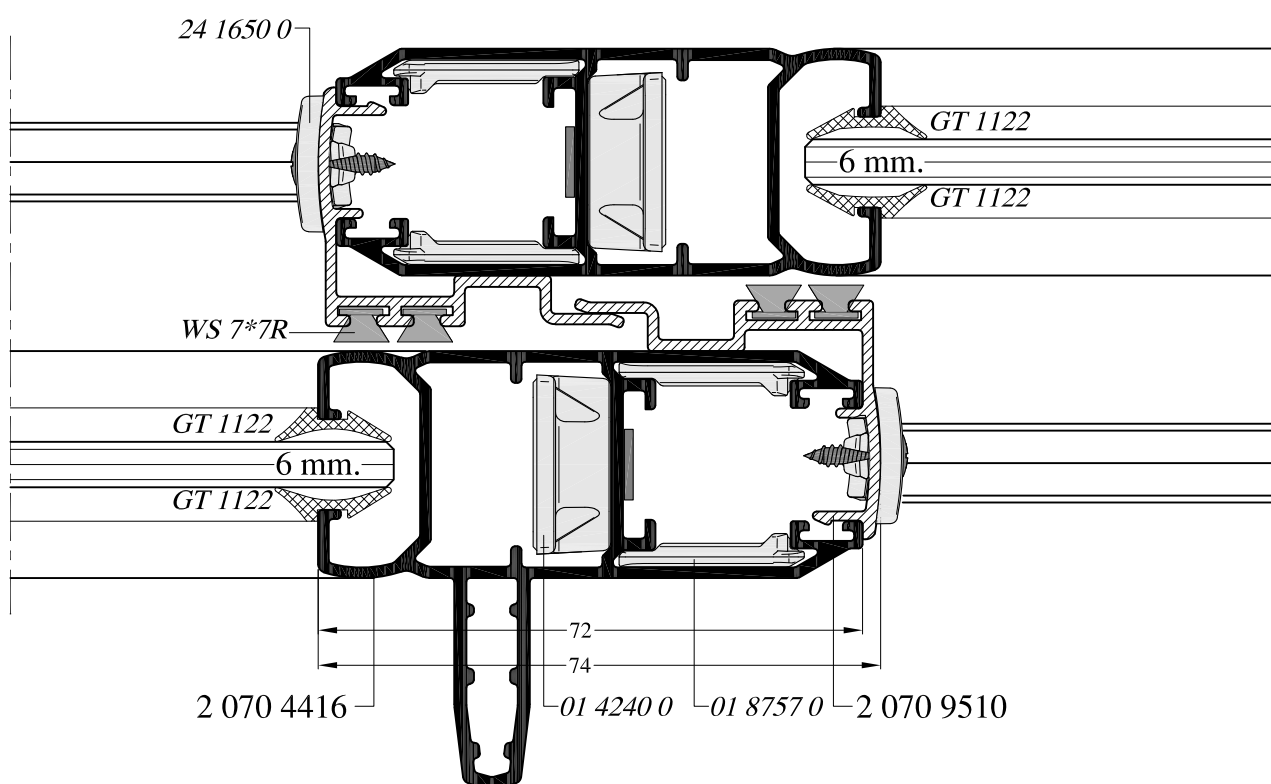
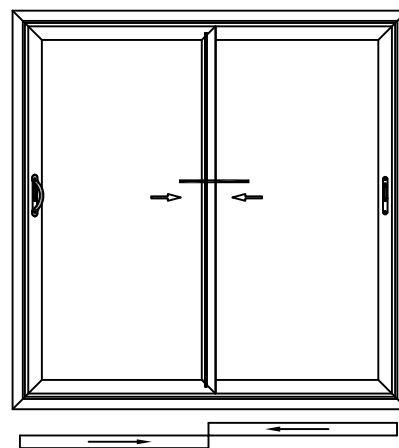
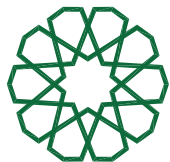


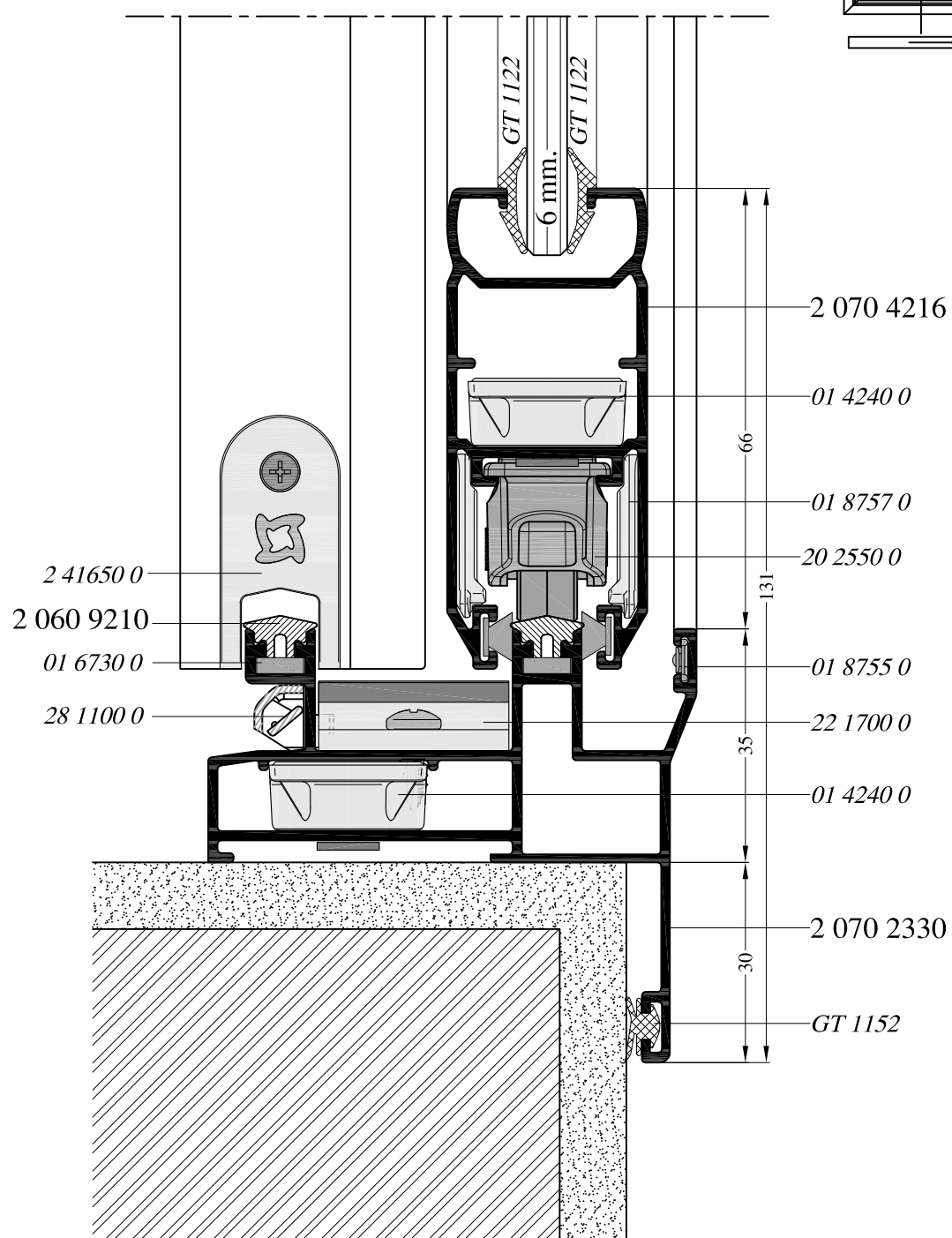
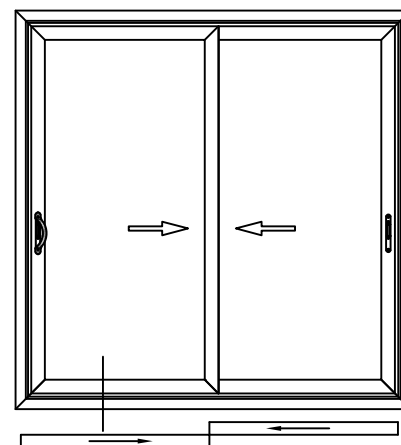
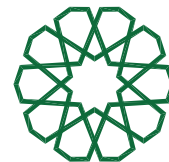
9 001 1702
0.473 Kg./ml.

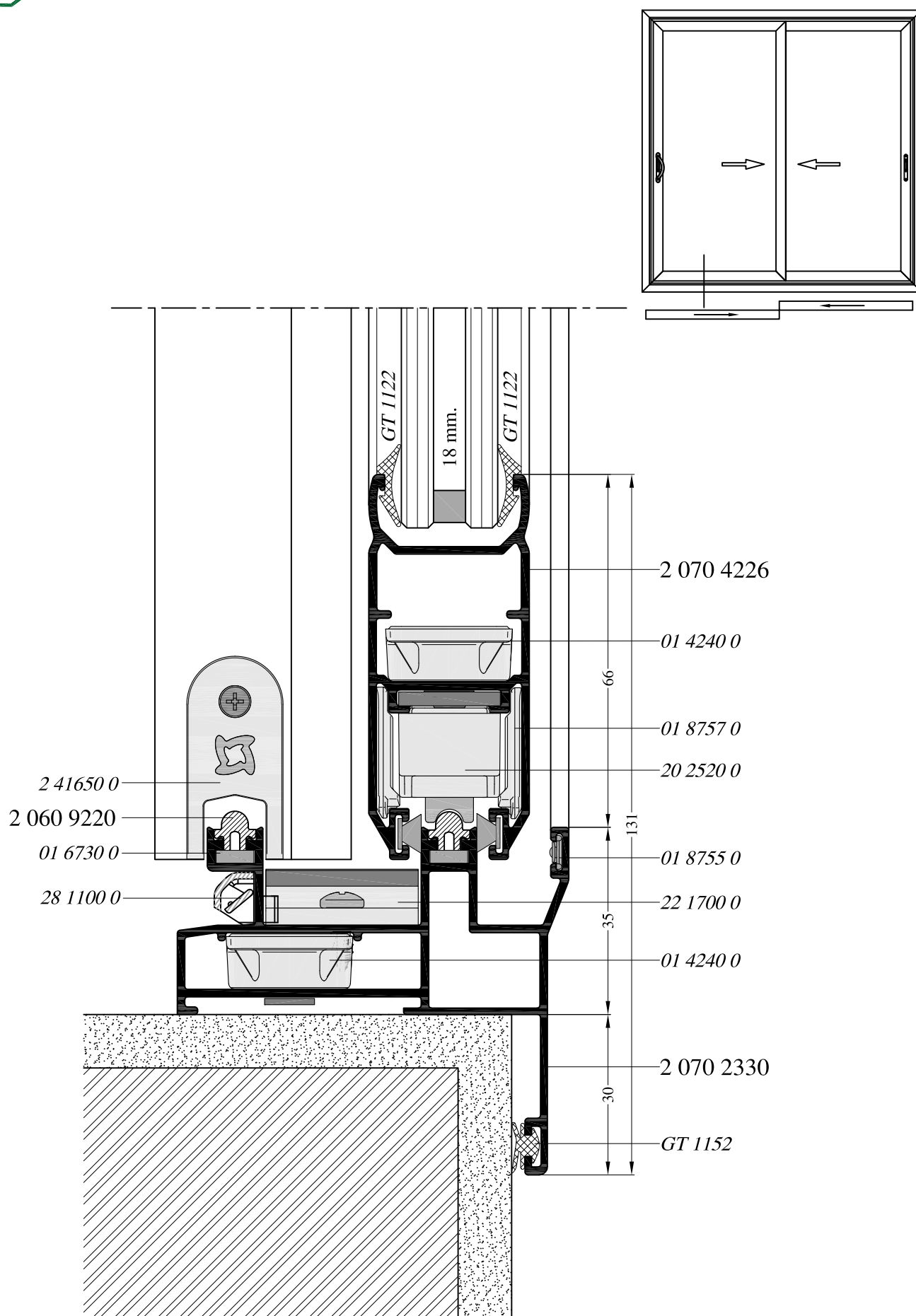
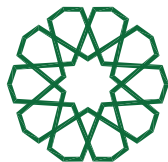


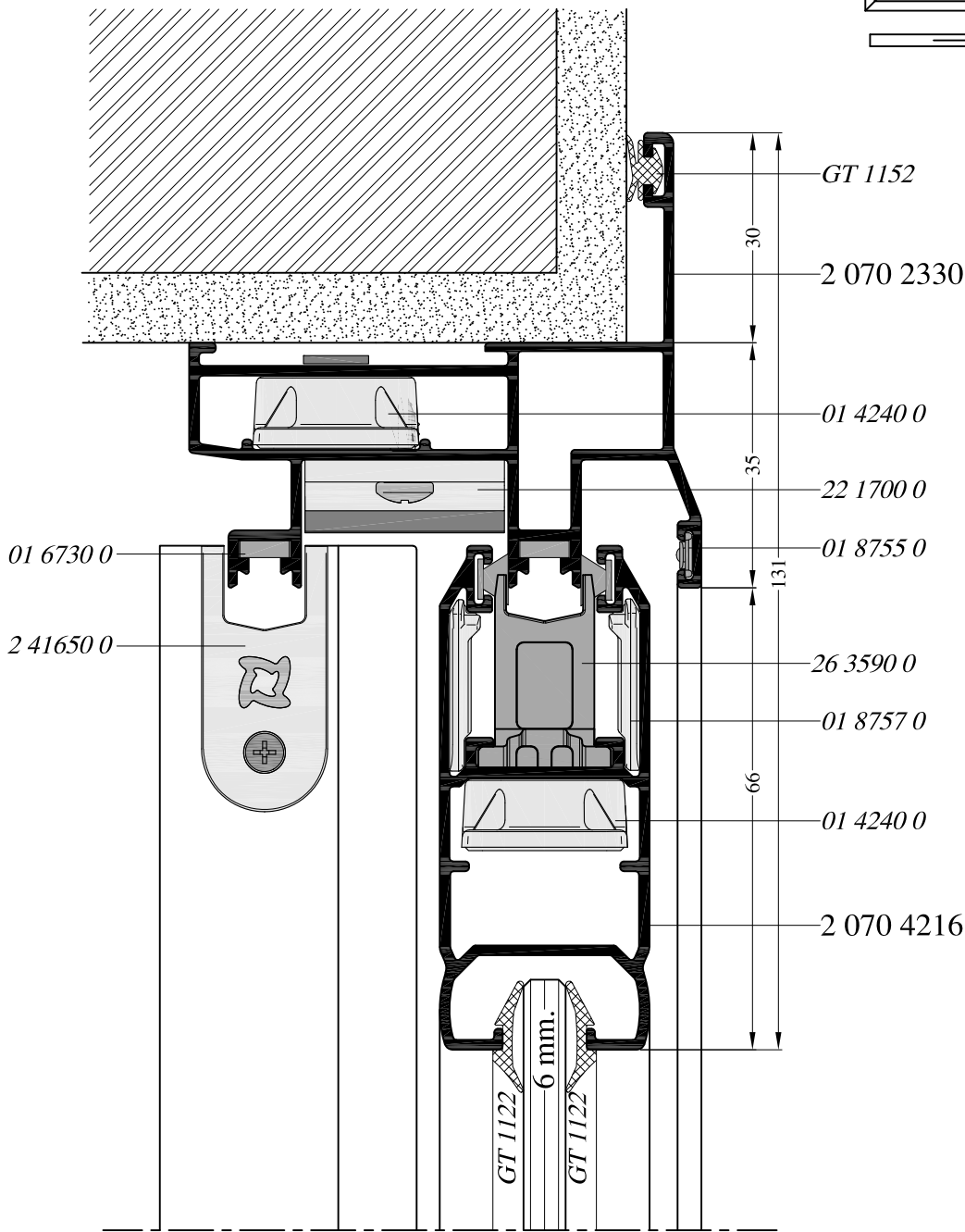
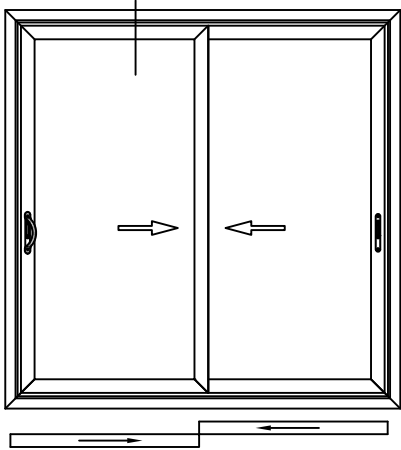


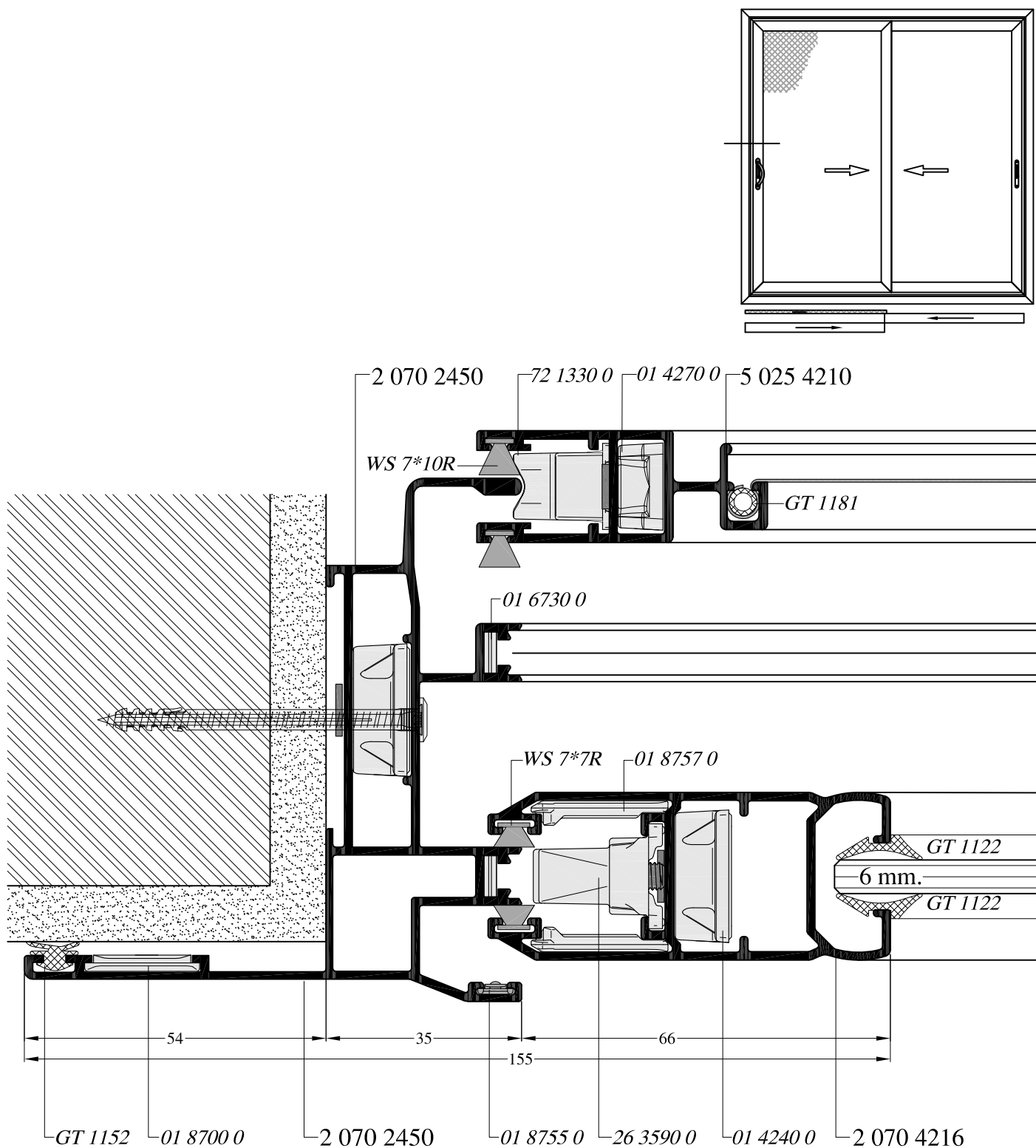
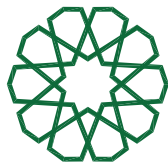


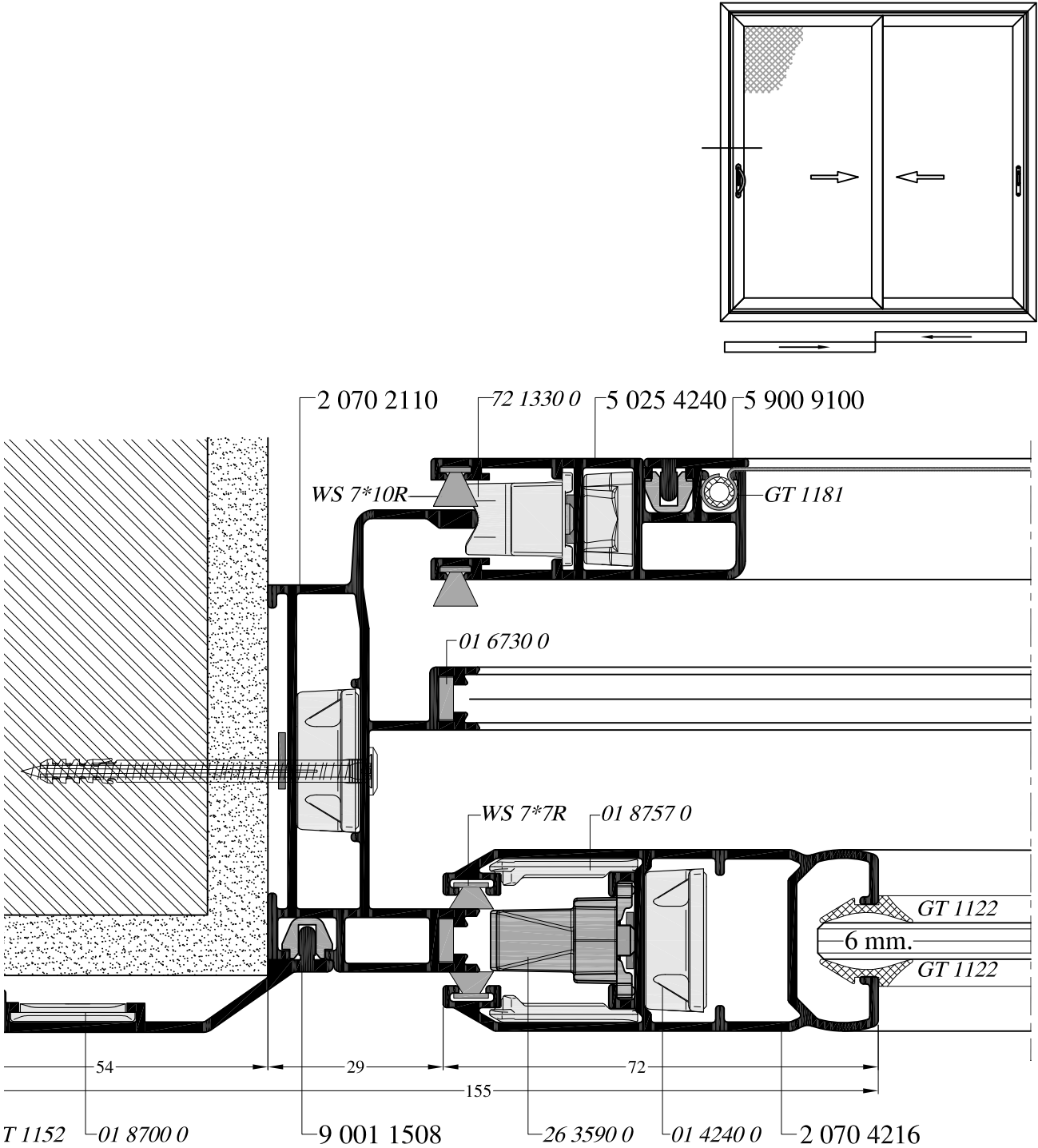


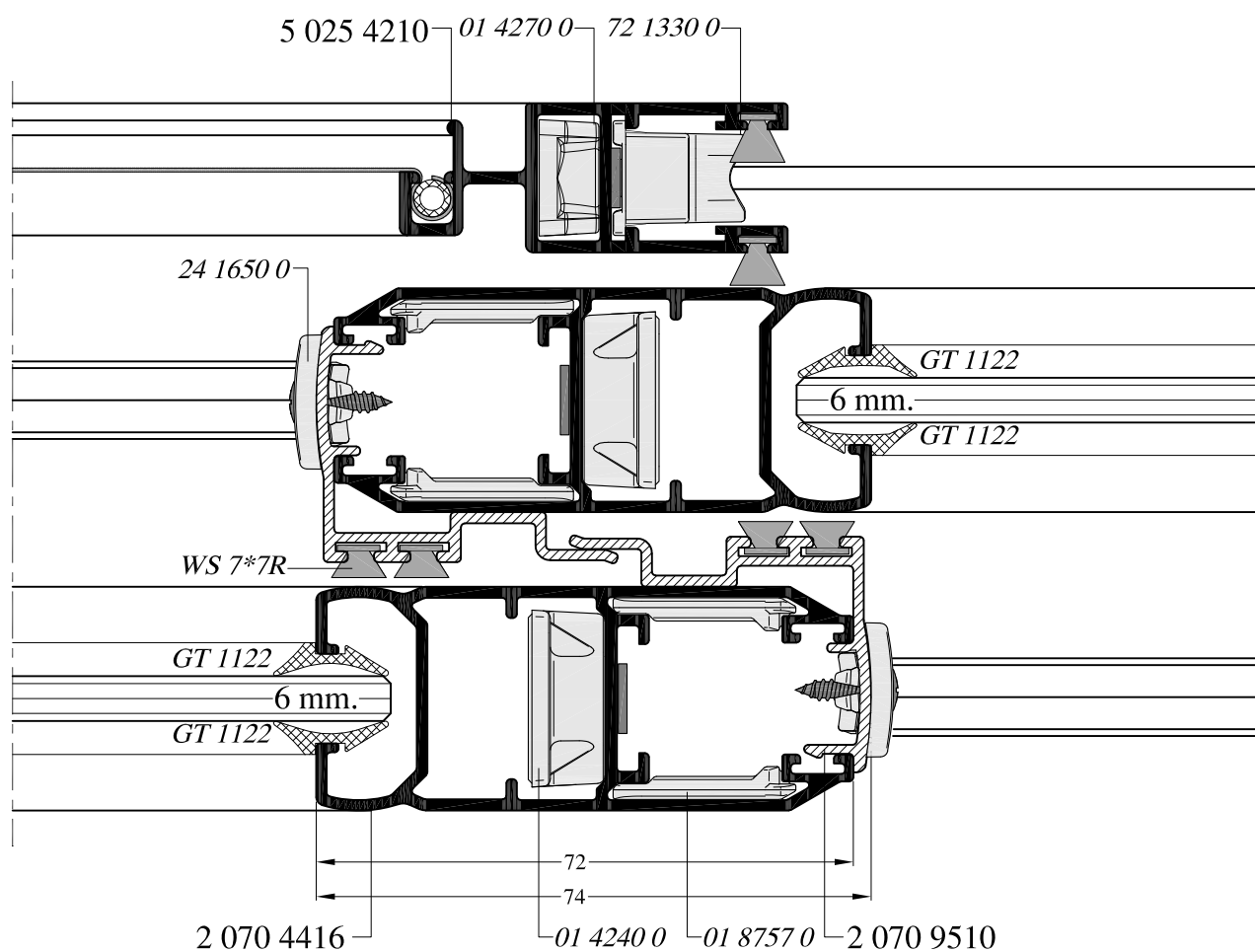
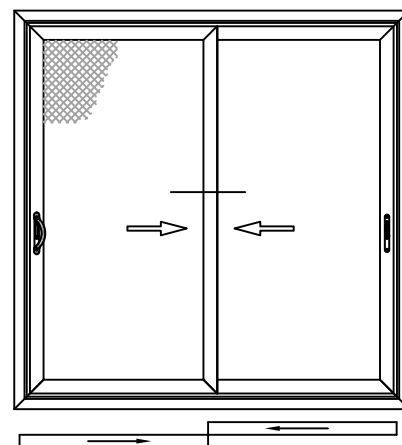
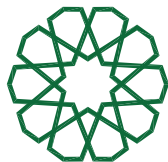


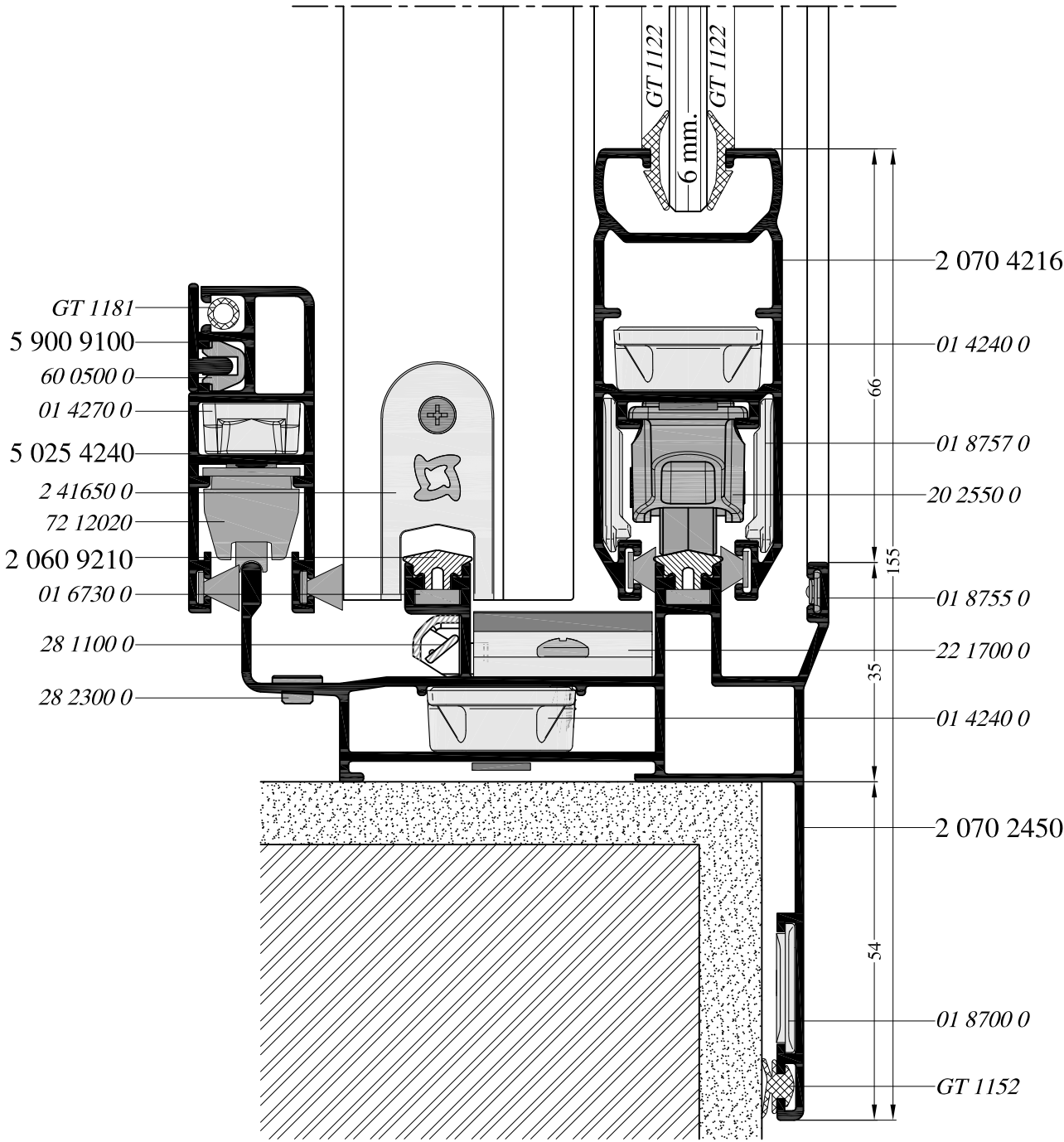
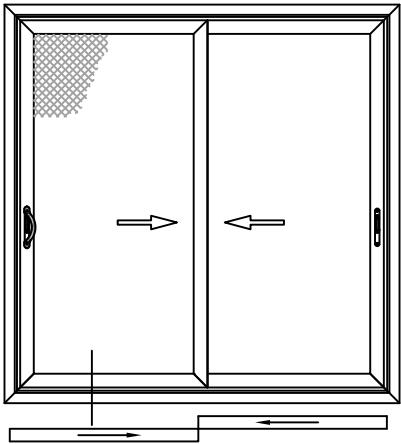


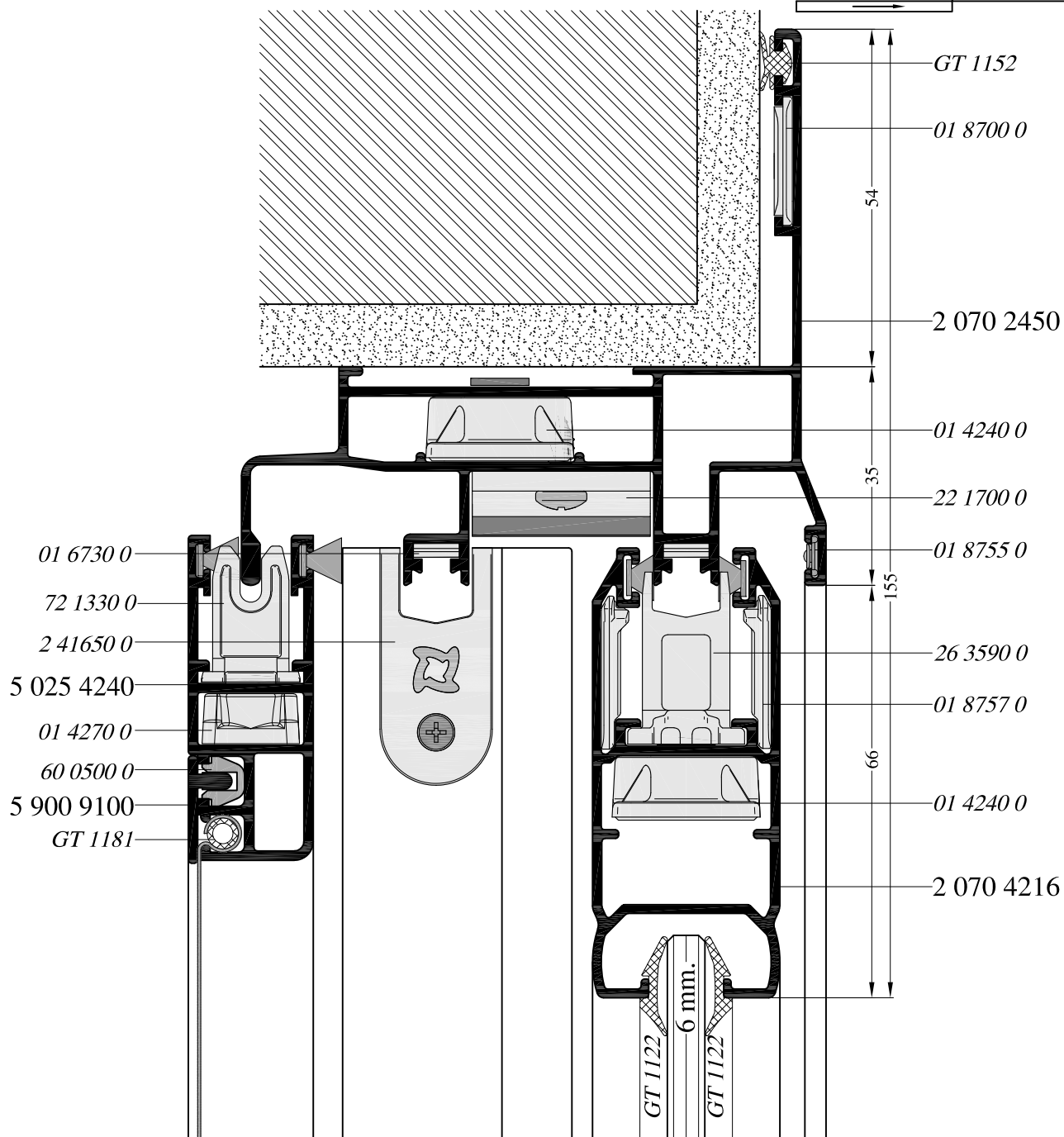
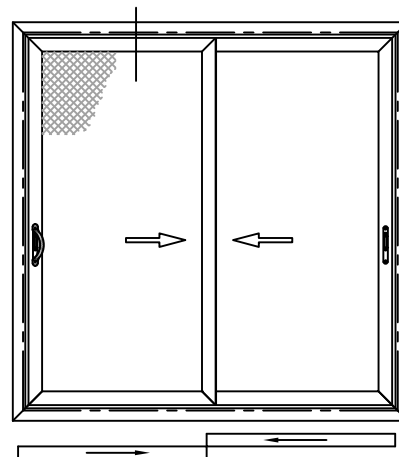
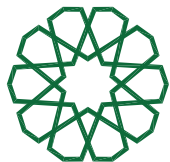


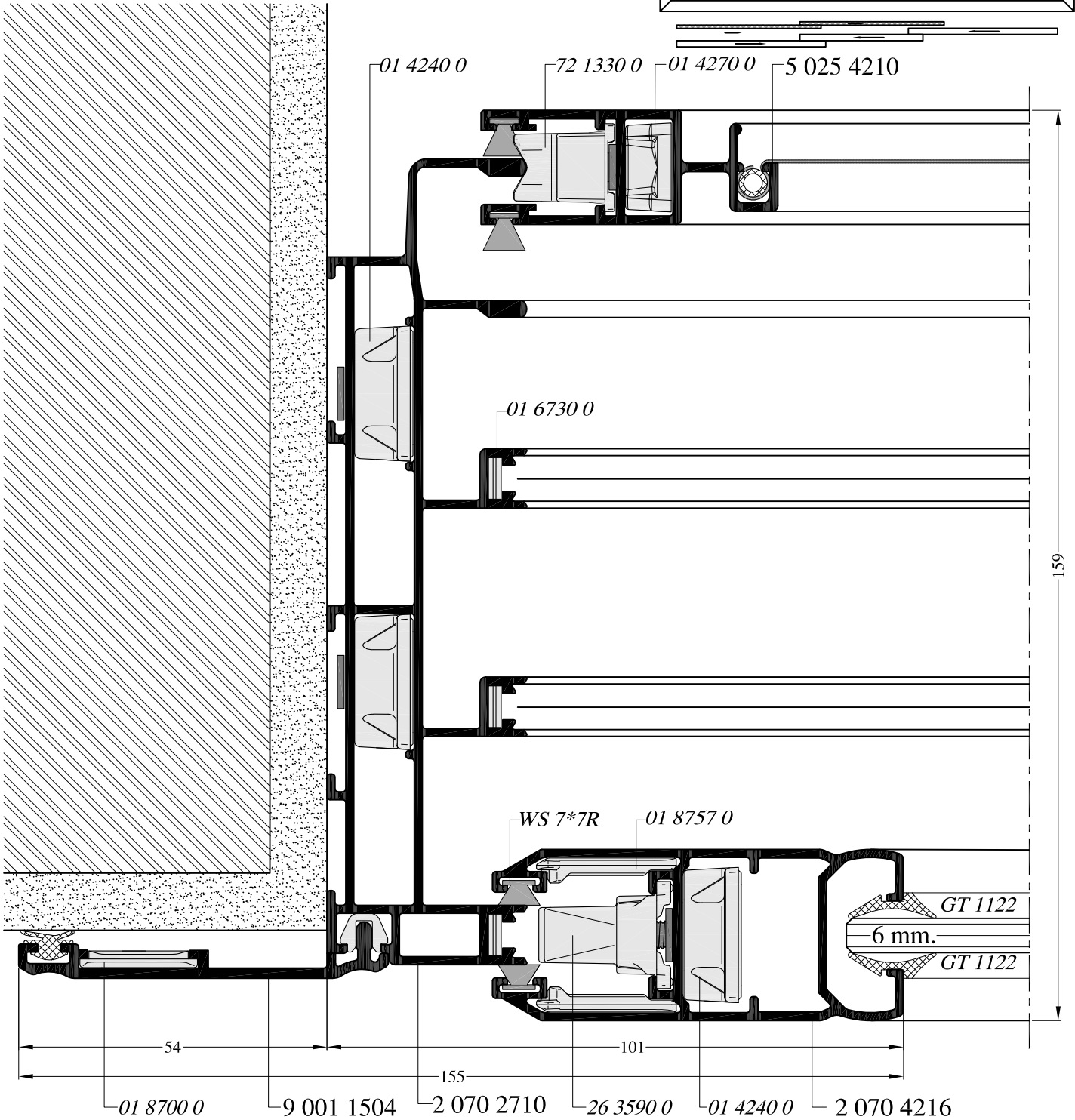
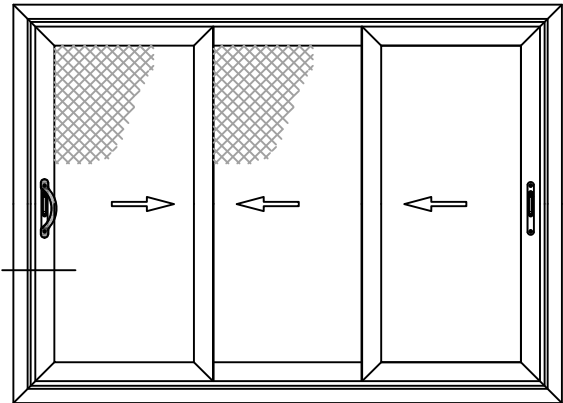


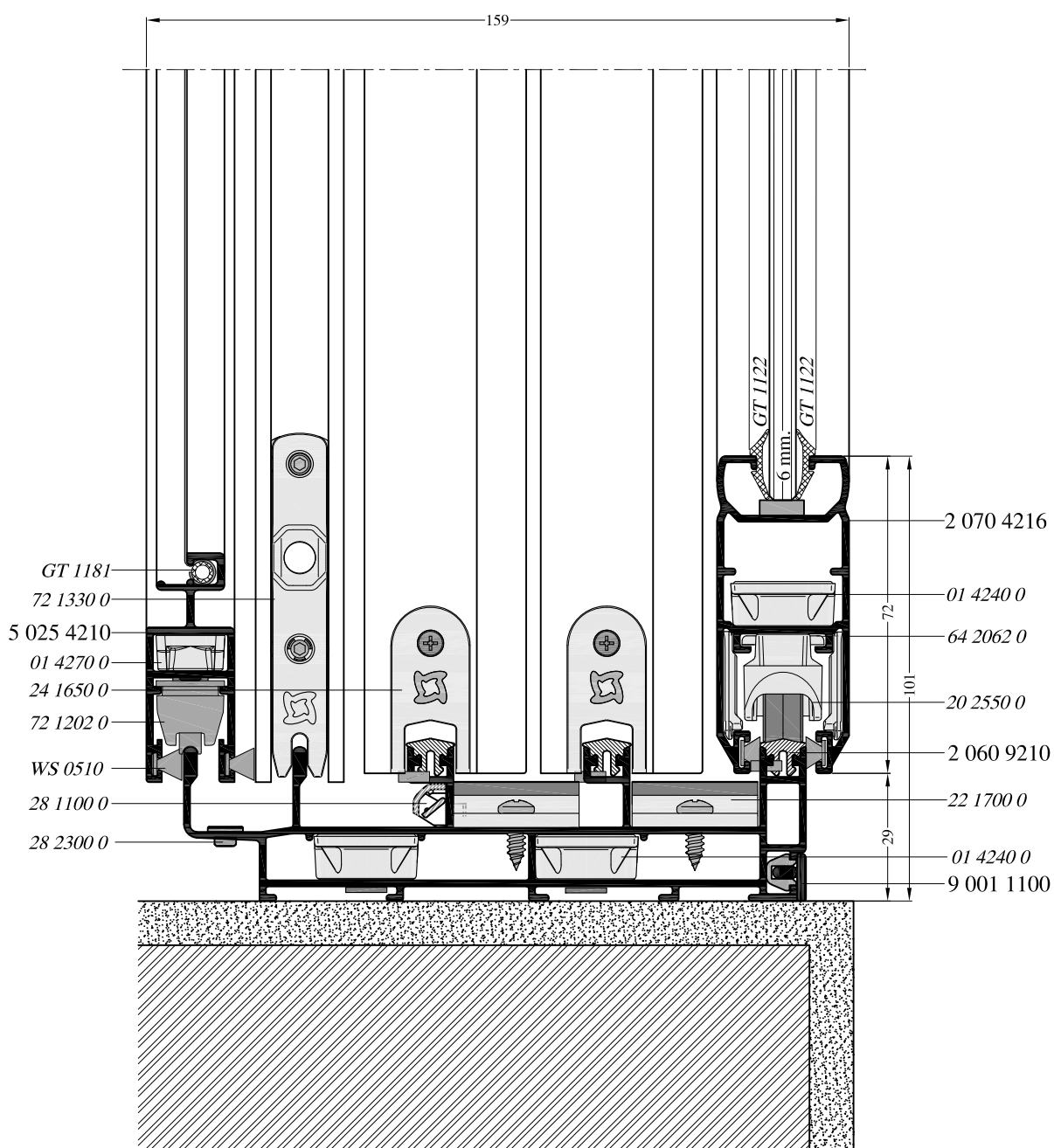
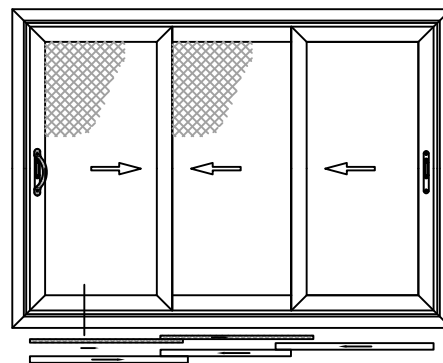
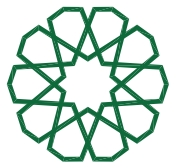




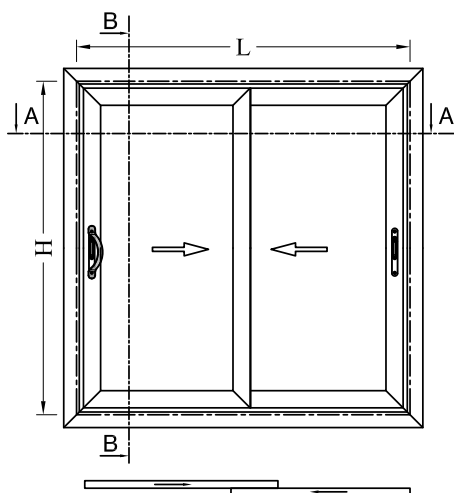
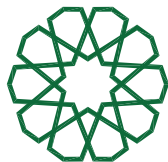






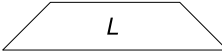
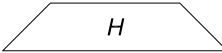
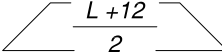
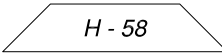
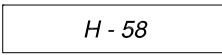
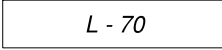


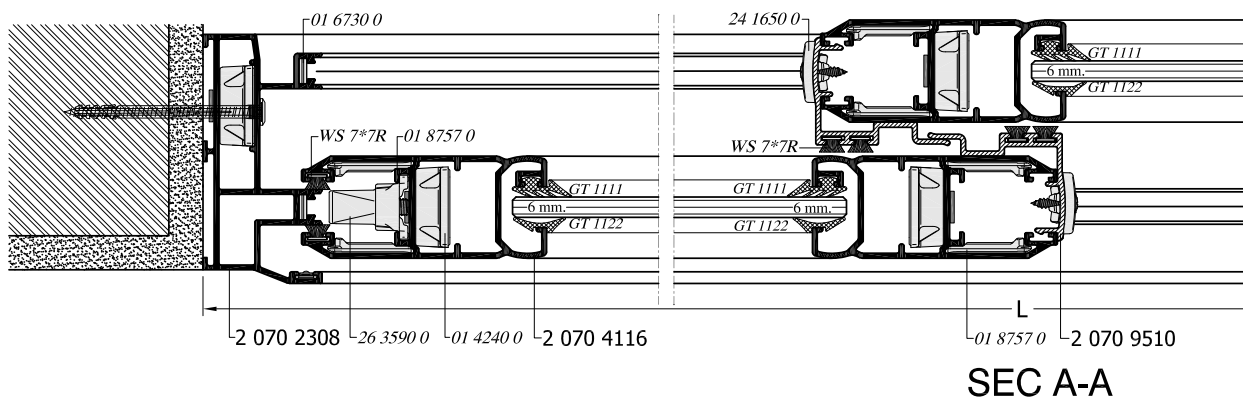




TOTAL WEIGHT	
L (m.) X 3.92 Kg.	+
H (m.) X 5.916 Kg.	

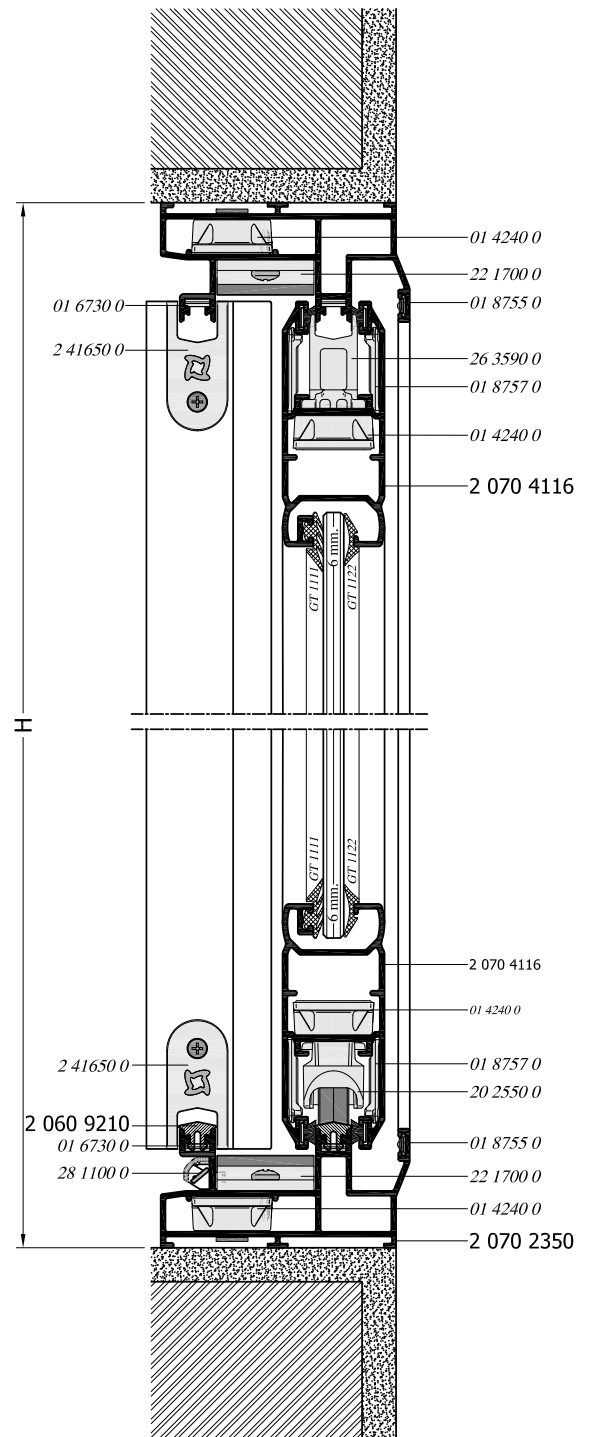
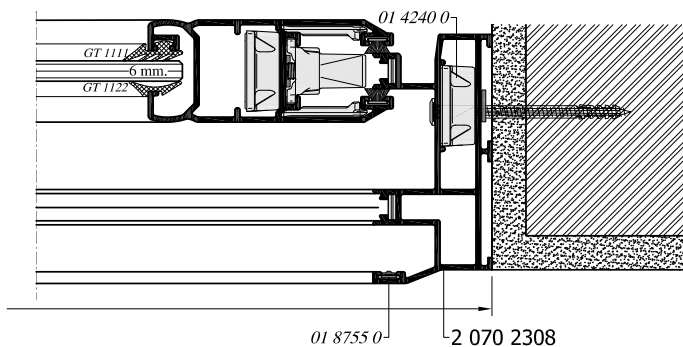
TOTAL =	Kg.

PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	2 070 2308	2	
		2	
	2 070 4116	4	
		4	
	2 070 9510	2	
	2 060 9210	2	
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			

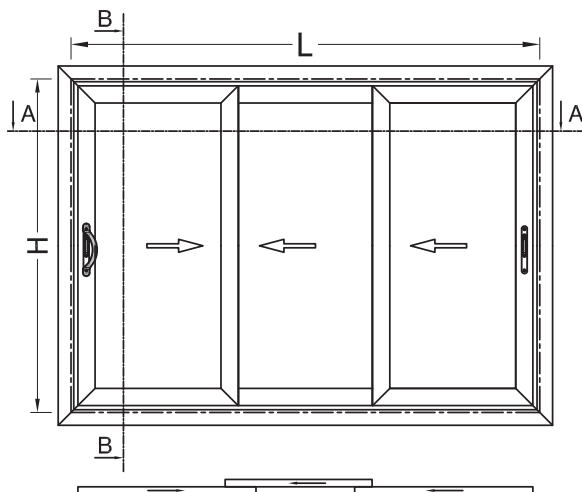
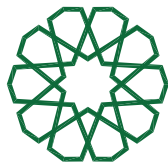




ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4240 0	12	Corner Joint
	01 6730 0	8	Alignment Angle
	01 8755 0	4	Alignment Angle
	01 8757 0	16	Alignment Angle
	20 2550 0	1	Single Roller Set
	22 1700 0	2	Anti-Dust Caps
	24 1650 0	4	Cover Caps
	26 3590 0	4	Shock Absorber & Guide
	42 3460 0	2	Rashid Lateral Handle
	46 2560 0	1	Issna Handle
	58 1030 0	2	Striker
	KIT 28001	2	Drainage Cover
	GT 1111	4L+4H	Glass Gasket
	GT 1122	4L+4H	Glass Gasket
	WS 7*7 F	4L+8H	Weather Strip



SEC B-B

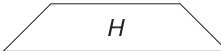
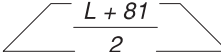
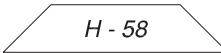
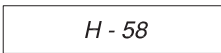
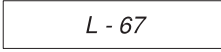


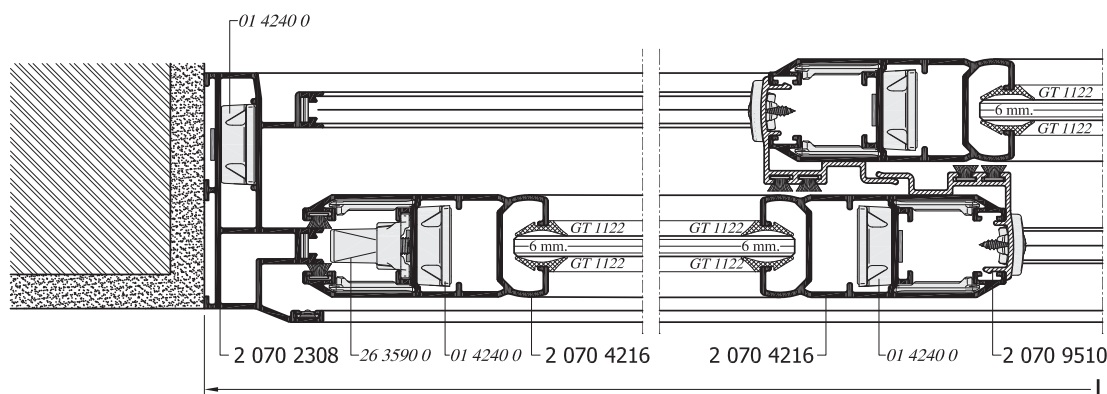
TOTAL WEIGHT

L (m.) X 3.806 Kg. +
H (m.) X 7.951 Kg.

TOTAL = Kg.

PROFILES CUTTING LIST

PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	2 070 2308	2	
		2	
	2 070 4216	6	
		6	
	2 070 9510	4	
	2 060 9220	2	
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			

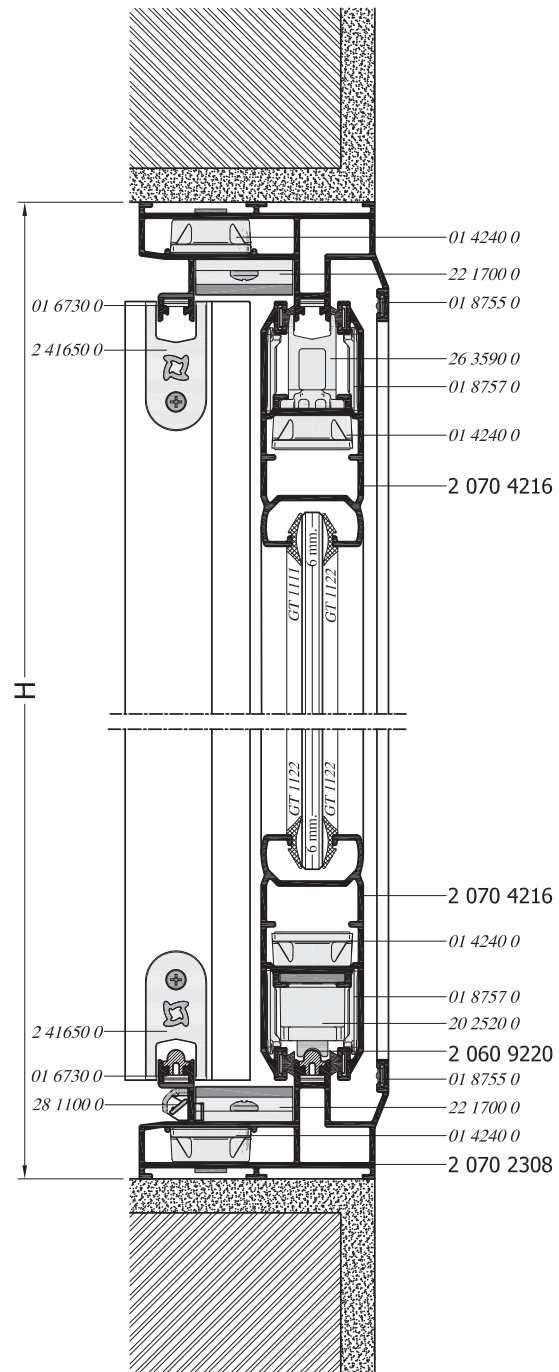


SEC A-A

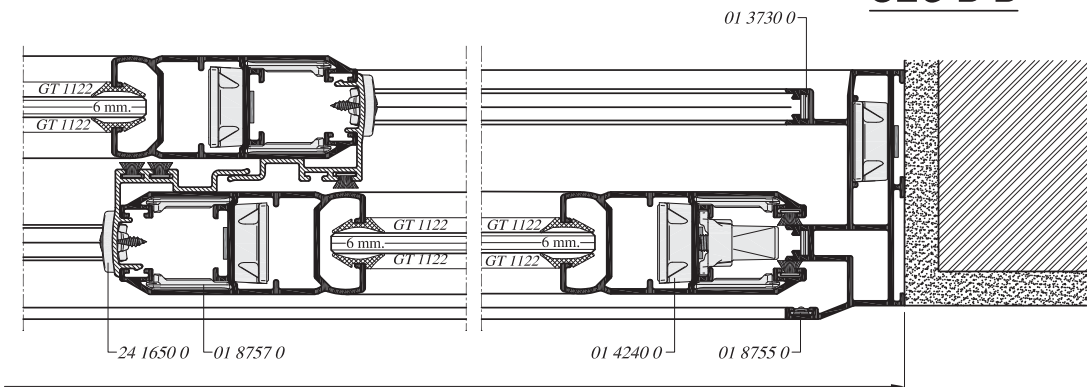


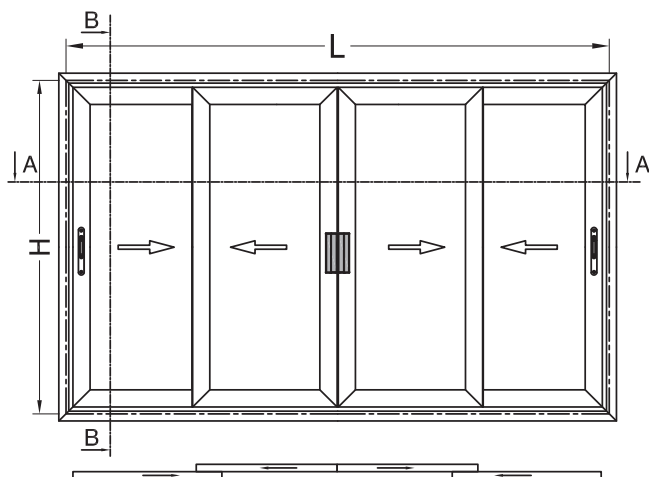
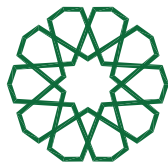
ACCESSORIES LIST

FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4240 0	16	Corner Joint
	01 6730 0	8	Alignment Angle
	01 8755 0	4	Alignment Angle
	01 8757 0	24	Alignment Angle
	20 2520 0	2	Single Roller Set
	22 1700 0	4	Anti-Dust Caps
	24 1650 0	8	Cover Caps
	26 3590 0	4	Shock Absorber & Guide
	42 3460 0	2	Rashid Lateral Handle
	46 2560 0	1	Issna Handle
	58 1030 0	2	Striker
	KIT 28001	2	Drainage Cover
	GT 1122	4L+12H	Glass Gasket
	WS 7*7 F	4L+12H	Weather Strip



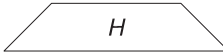
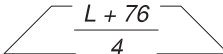
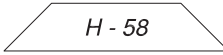
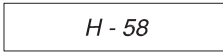
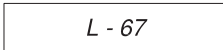
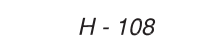
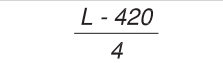
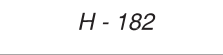
SEC B-B

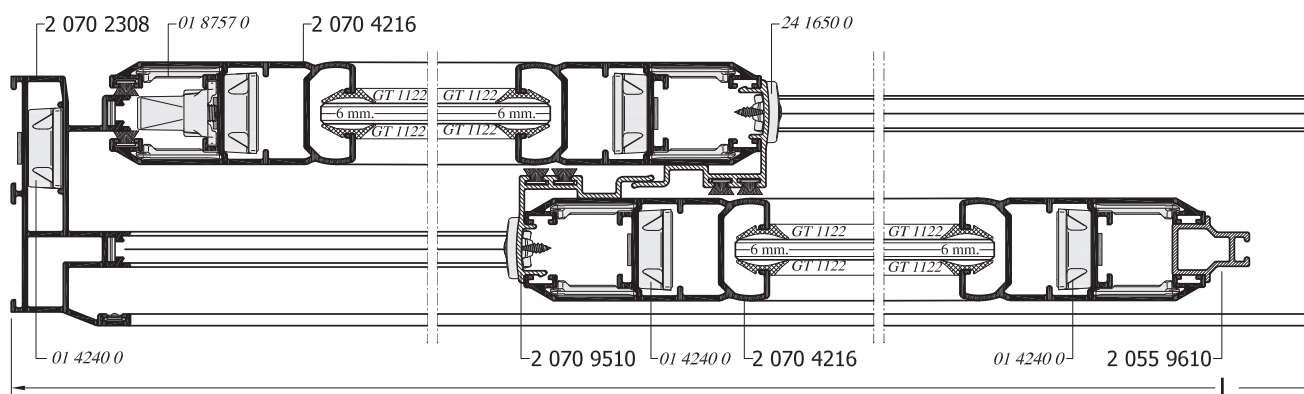




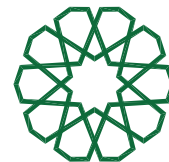
TOTAL WEIGHT	
L (m.) X 4.629 Kg.	+
H (m.) X 8.424 Kg.	

TOTAL =	Kg.

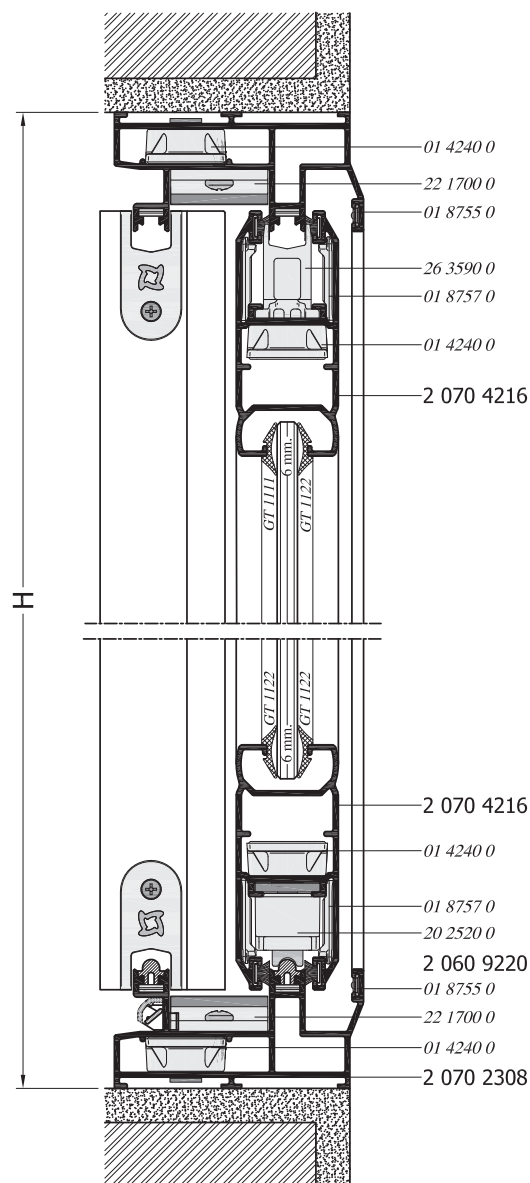
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	2 070 2308	2	
		2	
	2 070 4216	8	
		8	
	2 070 9510	4	
	2 060 9220	2	
	2 055 9610	1	
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			



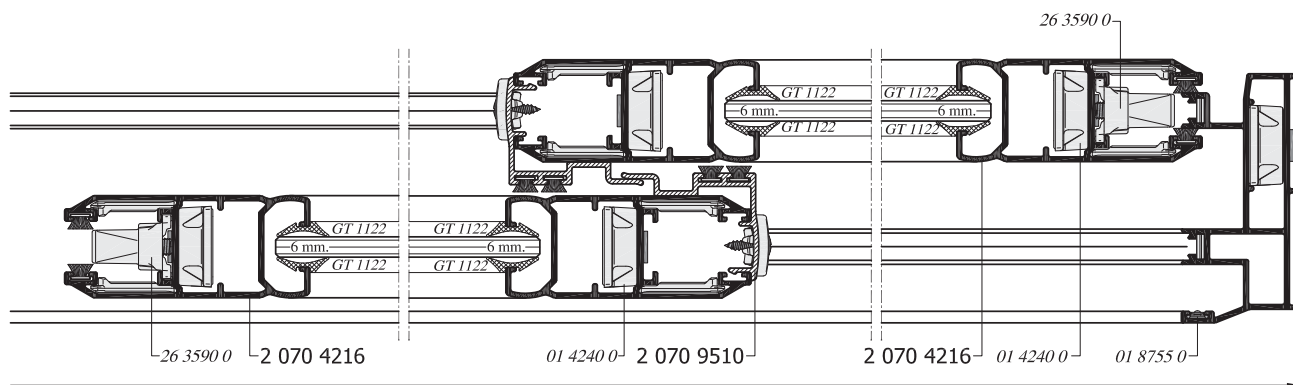
SEC A-A

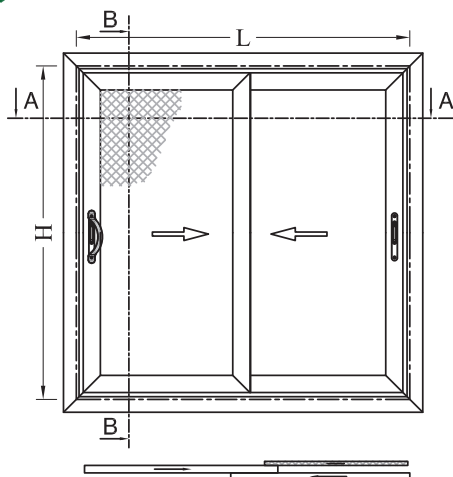
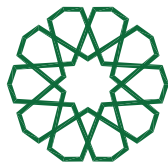


ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4240 0	20	Corner Joint
	01 6730 0	8	Alignment Angle
	01 8755 0	4	Alignment Angle
	01 8757 0	32	Alignment Angle
	20 2520 0	2	Single Roller Set
	22 1700 0	4	Anti-Dust Caps
	24 1650 0	8	Cover Caps
	26 3590 0	6	Shock Absorber & Guide
	42 3460 0	2	Rashid Lateral Handle
	48 2160 0	1	Issna Handle
	66 1055 0	1	Central Insert Plug
	58 1030 0	2	Striker
	KIT 28001	2	Drainage Cover
	GT 1122	4L+16H	Glass Gasket
	WS 7*7 F	4L+14H	Weather Strip

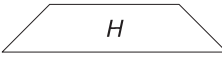
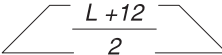
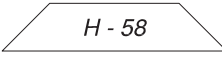
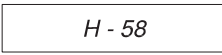
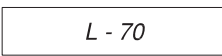
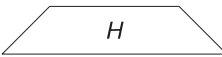
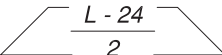
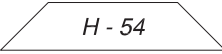


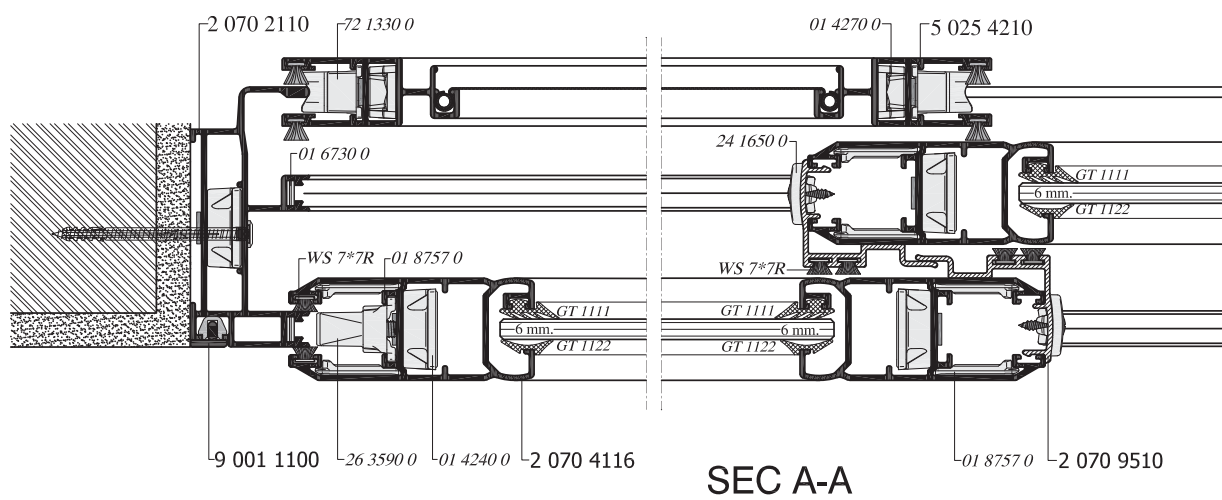
SEC B-B





TOTAL WEIGHT	
L (m.) X 4.629 Kg.	+
H (m.) X 7.160 Kg.	
TOTAL =	Kg.

PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	2 070 2110	2	
		2	
	2 070 4116	4	
		4	
	2 070 9510	2	
	2 060 9210	2	
	9 001 1100	2	
		2	
	5 025 4210	2	
		2	
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			



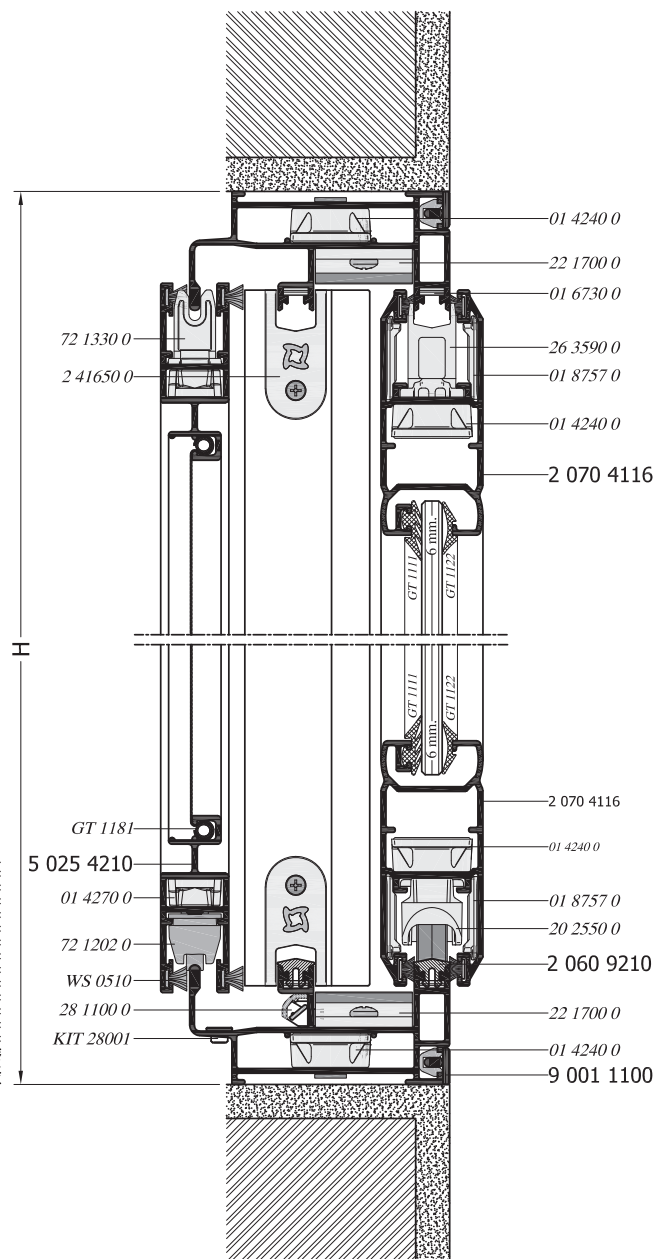
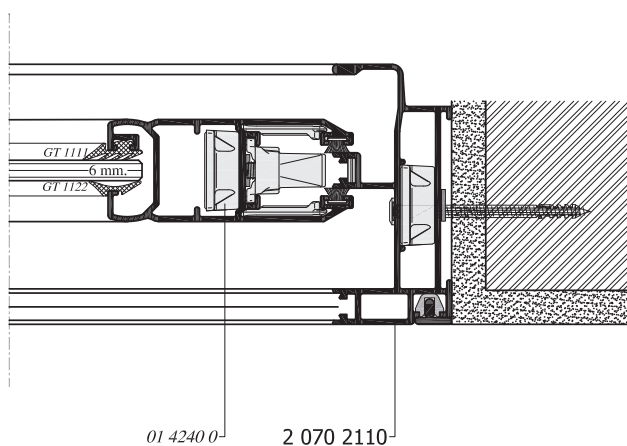


ACCESSORIES LIST

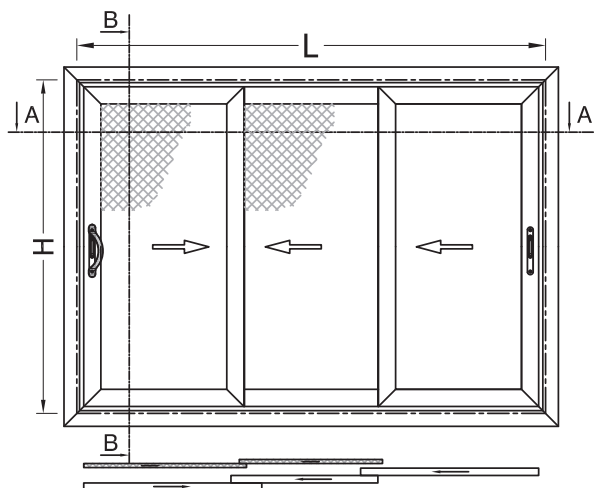
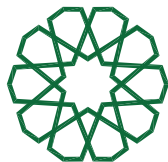
FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4240 0	12	Corner Joint
	01 6730 0	8	Alignment Angle
	01 8757 0	16	Alignment Angle
	20 2550 0	1	Single Roller Set
	22 1700 0	2	Anti-Dust Caps
	24 1650 0	4	Cover Caps
	26 3590 0	4	Shock Absorber & Guide
	42 3460 0	2	Rashid Lateral Handle
	46 2560 0	1	Issna Handle
	58 1030 0	2	Striker
	KIT 28001	2	Drainage Cover
	60 0500 0	$\frac{2L + 2H}{250}$	Clip
	GT 1111	4L+4H	Glass Gasket
	GT 1122	4L+4H	Glass Gasket
	WS 7*7 F	4L+8H	Weather Strip

FLY SCREEN ACCESSORIES LIST

FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4270 0	4	Screen Corner Joint
	72 1330 0	4	Screen Shock Absorber & Guide
	72 1202 0	1	Screen Roller Set
	GT 1181	L + 2H	Kito Gasket
	WS 5*10 F	4L+8H	Weather Strip



SEC B-B

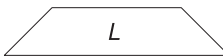
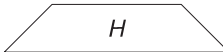
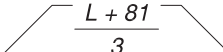
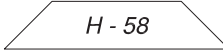
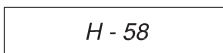
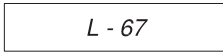
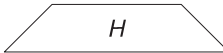
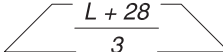
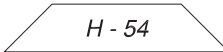


TOTAL WEIGHT

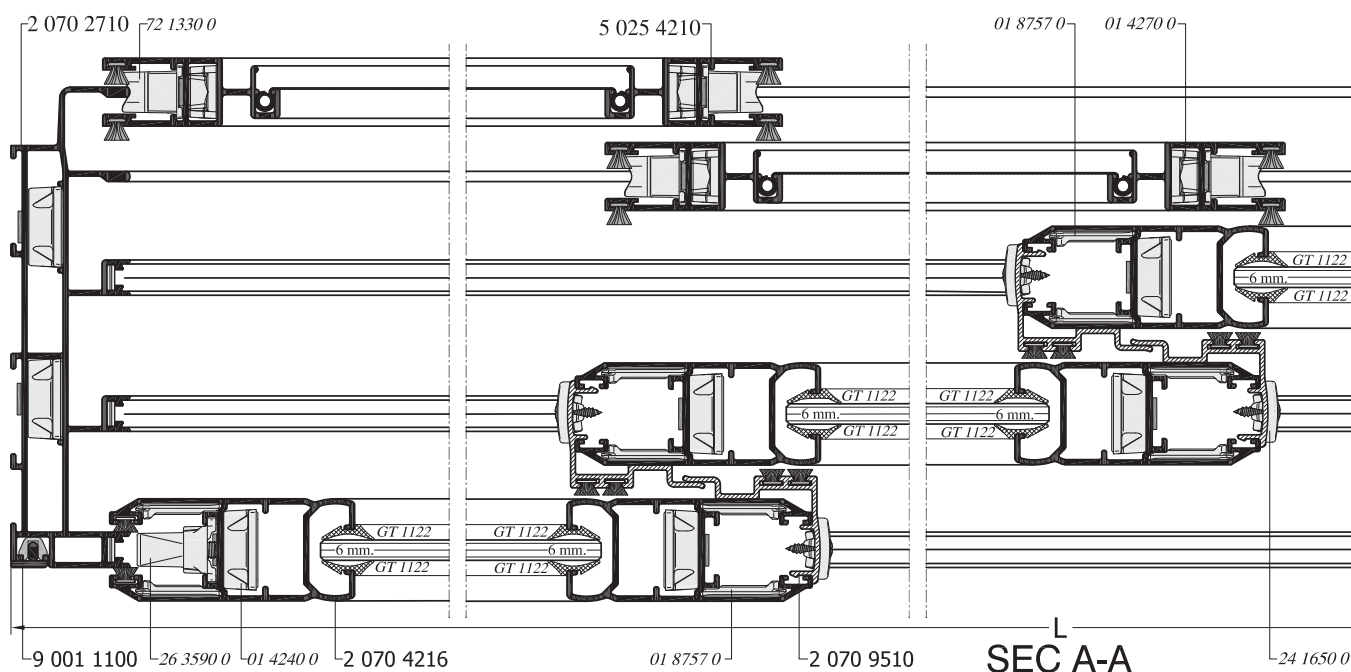
L (m.) X 6.074 Kg.
H (m.) X 11.689Kg. +

TOTAL = Kg.

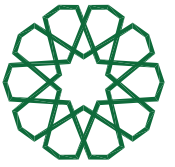
PROFILES CUTTING LIST

FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	2 070 2710	2	
		2	
	2 070 4216	6	
		6	
	2 070 9510	4	
	2 060 9220	2	
	9 001 1100	2	
		2	
	5 025 4210	4	
		4	
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			

ALL DIMENSIONS IN mm.



SEC A-A

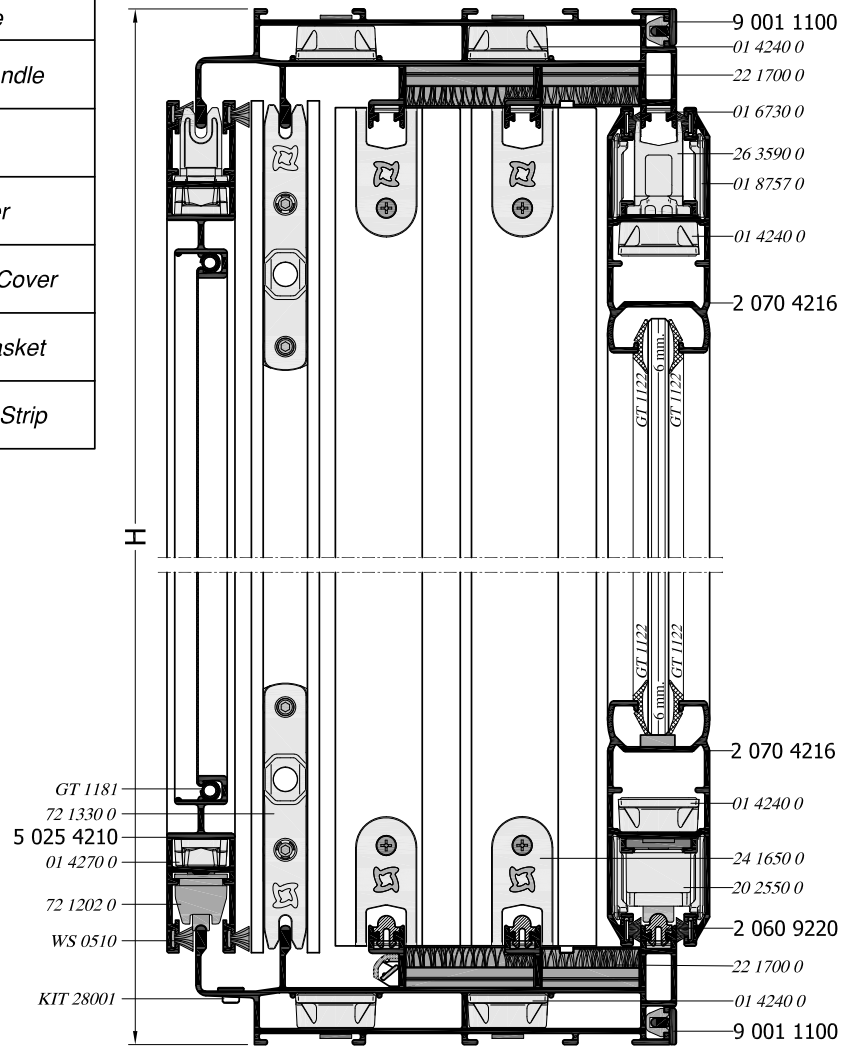
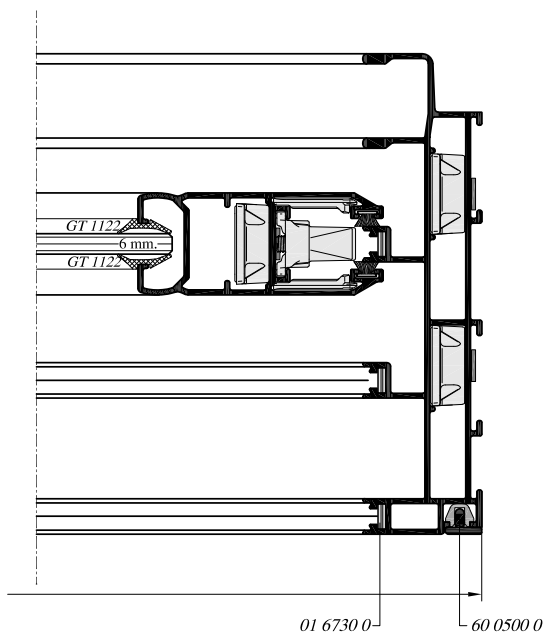


ACCESSORIES LIST

FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4240 0	20	Corner Joint
	01 6730 0	12	Alignment Angle
	01 8757 0	24	Alignment Angle
	20 2520 0	2	Single Roller Set
	22 1700 0	4	Anti-Dust Caps
	24 1650 0	8	Cover Caps
	26 3590 0	6	Shock Absorber & Guide
	42 3460 0	2	Rashid Lateral Handle
	46 2560 0	1	Issna Handle
	60 0500 0	$\frac{2L+2H}{250}$	Clip
	58 1030 0	2	Striker
	KIT 28001	2	Drainage Cover
	GT 1122	4L+12H	Glass Gasket
	WS 7*7 F	4L+14H	Weather Strip

FLY SCREEN ACCESSORIES LIST

FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4270 0	8	Screen Corner Joint
	72 1330 0	8	Screen Shock Absorber & Guide
	72 1202 0	2	Screen Roller Set
	GT 1181	L + 4H	Kito Gasket
	WS 5*10 F	4L+8H	Weather Strip



SEC B-B

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