



Machines & Aluminum Center

مرکز ماشینات و مستلزمات آلومینیوم



SONATA 45

HINGED SYSTEMS

2021

www.mac-alum.com

MACHINES & ALUMINIUM CENTER

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

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

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

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

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

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



Machines & Aluminium Center
مركز ماكينات ومستلزمات الألومنيوم

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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Technical Specifications

Materials

All aluminium profiles are from extruded aluminium alloy 6063 according to American standards ASTM B221 (B221M) - 02 - 2004 or German standards (Din 1748 Part 1).

Alloy Components:

- Silicon: 0.2 - 0.6 %
- Iron: 0.35 %
- Manganese: 0.10 %
- Magnesium: 0.45 – 0.9 %
- Copper: 0.1 %
- Chromium: 0.1 %
- Zinc: 0.1 %
- Titanium: 0.05 - 0.1 %
- Aluminium: All the rest

Alloy Specifications:

- Tensile Strength: At least 1550 kg/cm²
- Yield Strength: At least 1100 kg/cm²
- Elongation: Up to 8.0 %

All plastics parts are made from nylon reinforced with fiber glass which has high mechanical properties.

All gaskets are made from extruded E.P.D.M. – in a hardness to suit its applications.

All fasteners within accessories are made from galvanized steel and stainless steel.

Finish

All exposed surfaces of the aluminium profiles is treated either by anodizing treatment (according to DIN 17611) or by electrostatic powder coating to meet international standards.



Anodizing treatment according to DIN 17611 with thickness from 16 to 20 micron according to next standards:

- Abrasion A.S.T.M. D-968-72
- Acid A.S.T.M. D-3260-73
- Detergent A.S.T.M. D-2248-73

Electrostatic powder coating according to RAL Specifications with thickness more than 70 micron.

Technical Features

- Many varieties are available in frame profiles and wing profiles also.
- A full range of accessories is available for the various door and window types.
- Tolerance weights and dimensions according to standard ANSI H35.2 TABLE5 or (Din 1748).
- Corner Joints are assembled using die cast / extruded aluminium corner cleat or locking brackets with dowels, also using different types of angles to keep of right angle.
- Window's hinges have a high load capacity; that a couple of hinges can carry a window leaf that weigh up to 75 kg. , Three of them can carry a leaf that weigh up to 85 kg.
- Door's hinges have a higher load capacity; that a couple of hinges can carry a Door leaf that weigh up to 90 kg.
- 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 measures.
- Additional locking points are available to make more security for the window which make opening or moving leaf is impossible.
- According to moment of inertia value of selected profiles and window type, wind load resistance can be calculated avoiding any deformation grater than 1200/ of window span under load up to 500 Pascal.
- Water infiltration is confirms to American standard A.S.T.M. E313, with no penetration up to 10.0 PSF and not greater than 1.5 cubic meter per hour per meter length of opening joint at pressure 100 N/m²



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 2021 Specifications, applicable from 1 January 2021

Licence No.:	1609
Date of Granting:	06.05.2021
Valid until:	31.12.2021

Zurich, 6 May 2021

QUALICOAT

M. C. Panam

Mohammed C. Panam
President



Sue C. C. Paredi

Sue C. C. Paredi
Managing Director

QUALICOAT | Tödi strasse 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.

مركز ماكينات ومعالجات الألمنيوم
(القاهرة)

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

Handwritten signature of the InterCert Head - Certifications

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.



مركز ماكينات ومعالجات الألمنيوم
(القراء)

Has been successfully assessed as per the requirements of

ISO 14001:2015

For the scope of

Trading, Treatment and Painting of Aluminum Profile

Initial Certification Date: 07-06-2021

Certificate Issue Date: 07-06-2021

Surveillance Validity Date: 06-06-2022

Recertification Date: 06-06-2024

Registration Number: IC-EM-2106052

Issued on behalf of InterCert
Head - Certifications



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



AkzoNobel



AkzoNobel

Interpon D Approved Applicator

Interpon D Approved Applicator

Series D1000

Series D2000

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

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.

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
31st May 2021 to 30th May 2022

This certificate is effective from
31st May 2021 to 30th May 2022

Approved for Aluminium Alloys: AA5050

Approved for Aluminium Alloys: AA5050

Approved for Pre-treatment Type: Chrome

Approved for Pre-treatment Type: Chrome

Wael Mahmoud
Sales and Marketing Manager
North Africa & Levant

Wael Mahmoud
Sales and Marketing Manager
North Africa & Levant

3/1/2021

3/1/2021

AkzoNobel Industrial Paints

AkzoNobel Industrial Paints



To Whomever it may concern

Date: 18th April 2021

Subject: Powder coating facility of **Machines and Aluminium Center**, under the process of Jotun approved applicator certification to coat Jotun Architectural products.

Dear Sir/ Madam

This refers to above subject, here with we confirm you that for **Machines and Aluminium Center**, located in **Second Industrial Zone, Plot 213, 6th of October, EGYPT** is under the process of Jotun Approved applicator certification to coat Jotun Architectural products. Preliminary audit has already been conducted, final audit will be conducted soon for certification. This letter is valid for six (6) months from the date above.

Please don't hesitate to contact me in case further clarifications

Godfrey L. Brazil

Technical Service Executive



Jotun Powder Coatings U.A.E. (LLC)
P.O. Box 31053, Dubai, United Arab Emirates
Tel: +971 4 347 2535 | Fax: +971 4 347 2615 | www.jotun.com

Bankers
The National Bank
Emirates Bank

Bank A/C: 01700000000000000000
R/C No: 42095
Paid up capital AED 3,000,000



Applicator approval certificate

Machines & Aluminium Center
(Alwan)

Is acknowledged by us to be an approved applicator to series 29 Powder coatings product line

Date of certificate : 20/5/2021
Date of expiration : 21/5/2022

This certificate is granted after a complete audit of pre-treatment used by the applicator, inspection of the oven, equipment, and knowledge of staff. We hereby acknowledge that Machines & Aluminium center fulfills our standards for an approved applicator.

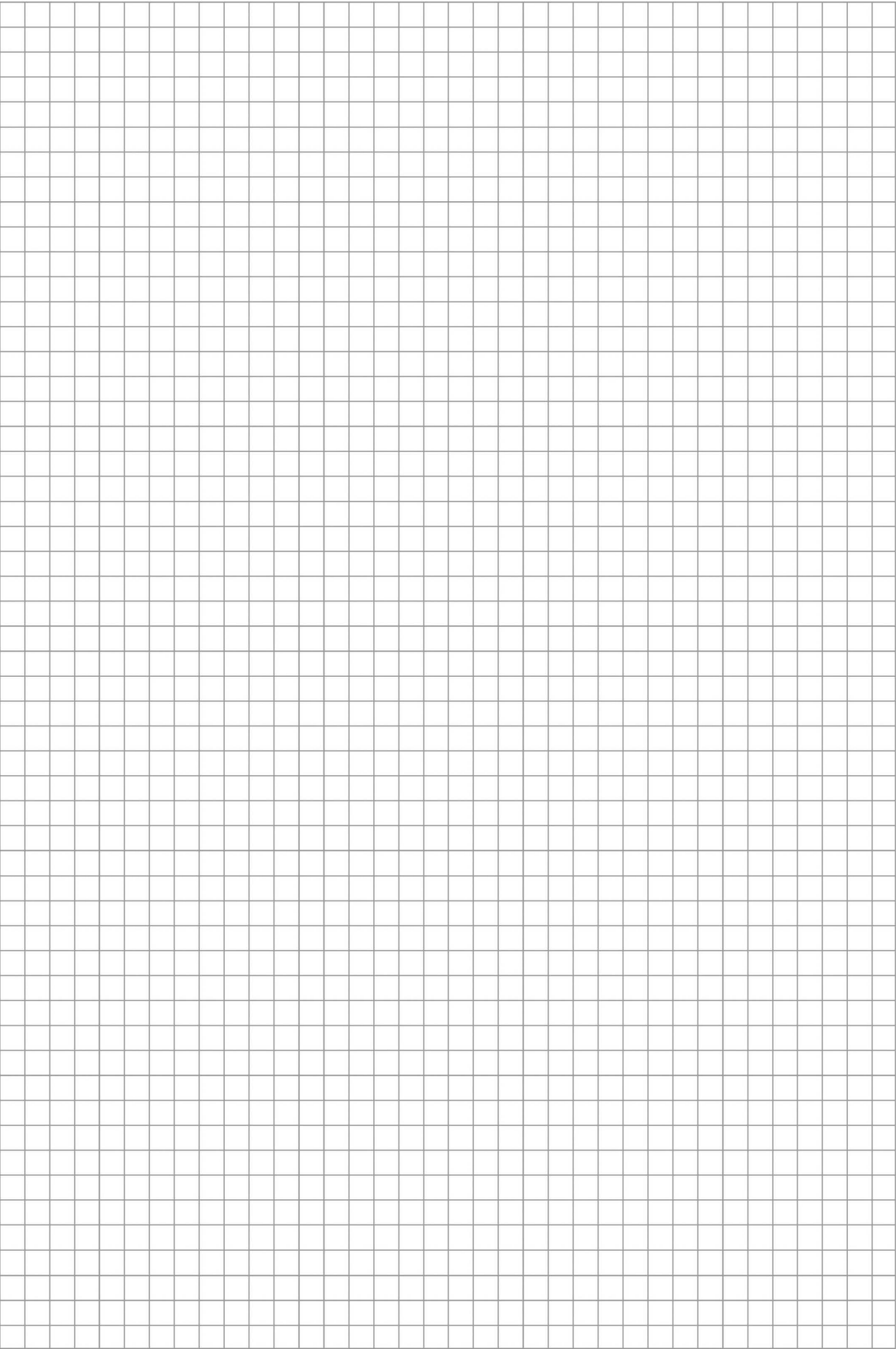
Authorized signature
CEO

Authorized signature
Commercial director

[Signature]

[Signature]

[Signature]





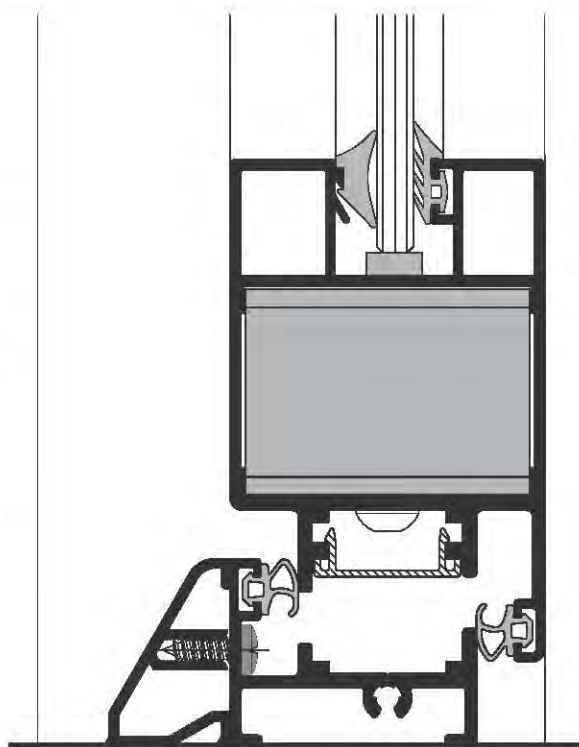
- Wide variety of frames and sashes in design and aesthetic shapes that match the architectural trends while offering a full range of accessories for various types of openings.
- Offers a solution for every standard application for inward and outward opening windows and flush doors.
- Offers integrated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

Technical Characteristics

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

Complies with European norm hEN 1435-1

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





EUROPEAN CERTIFYING ORGANIZATION S.P.A.
NOTIFIED TESTING LABORATORY N. 0714
FOR REGULATION (EU) No 305/2011
CLASSIFICATION ASSESSMENT
N. 0714-CPR-1288 DATED AUGUST, 05 2015

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011, that replaces Council Directive 89/106/EEC and lays down conditions for the placing or making available on the market of construction products by establishing harmonised rules on how to express their performance in relation to their essential characteristics and taking account of the horizontal legal framework for the marketing of products in the internal market, established by Regulation (EC) No. 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products, as well as by Decision No. 768/2008/EC of the European Parliament and of the Council of 9 July 2008 on a common framework for the marketing of products,

and in compliance with hEN 14351-1:2006 - A1:2010 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics, which is currently in force,

European Certifying Organization S.p.A., notified laboratory NB 0714, carried out the following:

type-testing

for the determination of the essential characteristics

Air Permeability – Water tightness – Resistance to Wind Load

on the below mentioned external pedestrian doorset without resistance to fire and/or smoke leakage characteristics

In compliance with EN 12207:1999, EN 12208:1999, EN 12210:1999 – Classification,

EN 1026:2000, EN 1027:2000, EN 12211:2000 – Tests and calculations

System of assessment and verification of constancy of performance 3

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

DESCRIPTION OF THE PRODUCT

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

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 typetesting carried out, as described in the laboratory report ECO CP0025/1, dated August, 05 2015, in accordance with Annex ZA of hEN 14351-1:2006 - A1:2010 and with the EN 12207:1999, EN 12208:1999 and EN 12210:1999 classification, to the specimen, as previously identified,

THE FOLLOWING CLASSIFICATION IS AWARDED

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

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

Faenza, August, 05, 2015

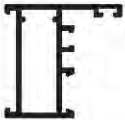
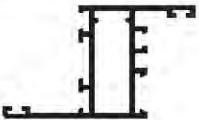
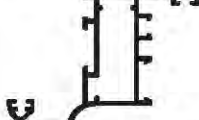
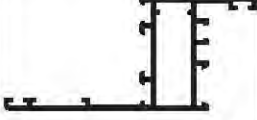
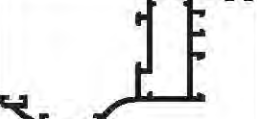
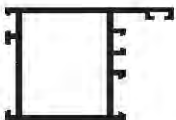
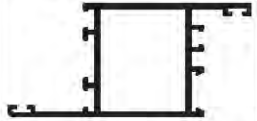
The undersigned ECO Certificazioni S.p.A. Manager

Eng. Gianluca Camporeale

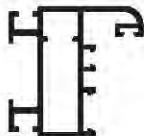
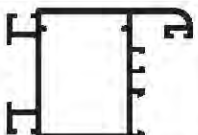
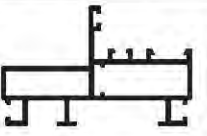
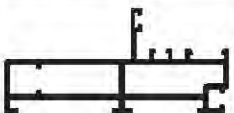
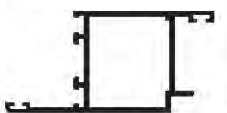
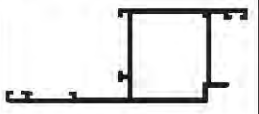
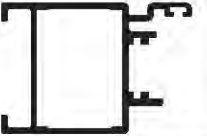
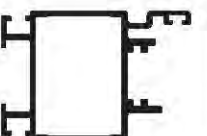
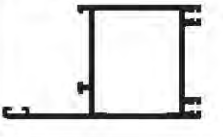


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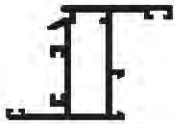
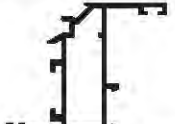
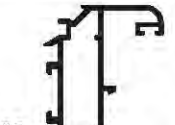
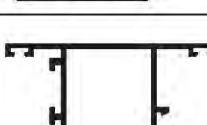
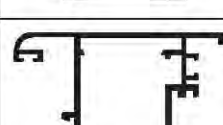


Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm ⁴	Iy cm ⁴
	1 045 1100	Frame	SH 4510	0.764	381.55	7.75	3.67
	1 045 1130	Frame	SH 4511	0.966	487.83	10.50	9.20
	1 045 1131	Frame	SH 4513	1.018	517.58	14.25	9.26
	1 045 1132	Frame	SH 4511.2	1.040	520.14	13.93	11.91
	1 045 1138	Frame	SH 4511.3	1.026	504.94	13.09	10.98
	1 045 1150	Frame	SH 4512	1.099	547.83	12.49	21.80
	1 045 1152	Frame	SH 4512.2	1.158	570.44	16.78	26.17
	1 045 1153	Frame	SH 4512.3	1.196	597.37	18.45	29.01
	1 045 1200	Frame	SH 4515	1.042	470.38	11.63	13.80
	1 045 1230	Frame	SH 4516	1.220	562.32	13.01	20.88

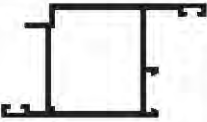
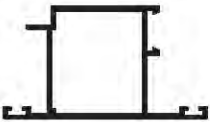
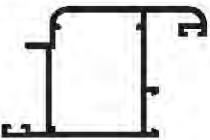
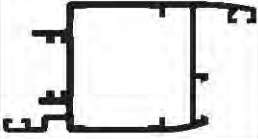
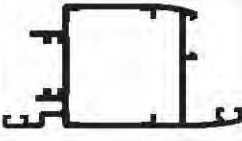
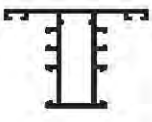
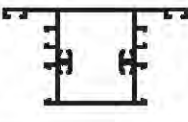


Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm ⁴	Iy cm ⁴
	1 045 1420	Frame	SH 4514	1.064	515.67	12.78	8.07
	1 045 1520	Frame	SH 4518	1.320	422.54	18.10	23.07
	1 045 2082	Connection Profile	SH 8045	1.345	663.49	32.92	7.18
	1 045 2101	Connection Profile	SH 8095	1.833	444.09	68.70	7.66
	1 045 2122	Connection Profile	SH 8093	1.612	509.31	87.32	8.27
	1 045 3230	Frame	SH 4531	1.155	368.92	13.86	21.70
	1 045 3250	Frame	SH 4532	1.226	415.89	15.05	37.85
	1 045 3700	Frame	SH 4517	1.420	377.06	22.35	30.40
	1 045 3720	Frame	SH 4519	1.478	562.32	13.01	20.88
	1 045 3930	Frame	SH 4517.1	1.037	339.46	12.04	17.15



Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm ⁴	Iy cm ⁴
	1 045 4010	Leaf	SH 4548	1.156	327.80	8.99	7.38
	1 045 4100	Leaf	SH 4521	0.929	460.46	12.31	5.93
	1 045 4112	Leaf	SH 4522	0.986	482.44	12.94	7.52
	1 045 4121	Leaf	SH 4549	1.297	400.74	16.71	16.91
	1 045 4122	Leaf	SH 4527	1.223	594.54	16.26	15.93
	1 045 4142	Leaf	SH 4524.2	1.081	381.73	12.46	9.66
	1 045 4143	Leaf	SH 4524	1.177	573.92	14.05	11.12
	1 045 4153	Leaf	SH 4525	1.126	363.67	14.51	9.77
	1 045 4220	Leaf	SH 4529	1.064	362.78	16.67	11.44
	1 045 4320	Leaf	SH 4547	1.438	649.84	19.38	29.53

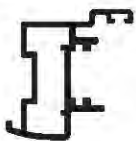
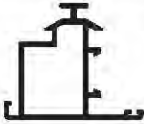


Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm4	Iy cm4
	1 045 4610	Leaf	SH 4536	1.080	485.14	12.97	17.34
	1 045 4620	Leaf	SH 4535	1.080	485.05	12.47	17.34
	1 045 4652	Leaf	SH 4537	1.210	541.90	18.20	21.18
	1 045 4754	Leaf	SH 4538	1.638	433.77	23.87	42.27
	1 045 4764	Leaf	SH 4534	1.639	433.75	23.00	42.26
	1 045 4810	Leaf	SH 4539	1.086	322.68	12.92	16.08
	1 045 5010	Transom	SH 4551	0.926	471.21	8.99	7.38
	1 045 5120	Transom	SH 4552	1.242	612.98	10.40	12.56
	1 045 5130	Transom	SH 4553	1.890	511.70	19.80	103.07
	1 045 5140	Transom	SH 4554	2.163	571.70	27.62	222.27

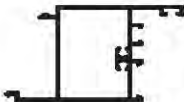
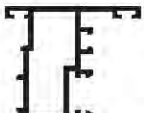
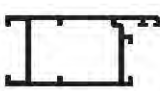


Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm ⁴	Iy cm ⁴
	1 045 5170	Angular divider (135° In)	SH 4585	1.204	354.94	9.29	17.71
	1 045 5190	Angular divider (135° Out)	SH 4586	1.204	354.94	14.79	10.39
	1 045 5330	Skirt	SH 4558	1.987	548.65	21.95	121.17
	1 045 5340	Skirt	SH 4559	2.260	608.65	29.89	250.72
	1 045 6110	Glass Beading	SH 4563	0.289	172.51		
	1 045 6130	Glass Beading	SH 4560	0.270	163.51		
	1 045 6140	Glass Beading	SH 4561	0.262	158.51		
	1 045 6142	Glass Beading	SH 4562	0.246	148.29		
	1 045 6145	Glass Beading	SH 4565	0.240	145.23		
	1 045 6160	Glass Beading	SH 4568	0.251	151.84		



Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm4	Iy cm4
	1 045 6180	Glass Beading	SH 4566	0.211	137.51		
	1 045 6182	Glass Beading	SH 4567	0.206	126.97		
	1 045 6290	Glass Beading	SH 4569	0.227	117.69		
	1 045 9110	Door Sill	SH 4574	0.540	244.39		
	1 045 9120	Sill Reinforcing	SH 4577	0.356	186.68		
	1 045 9210	Door Converter	SH 4579	0.221	107.01		
	1 045 9240	Door Converter	SH 4589	1.031	283.13	4.96	10.84
	1 045 9410	Pivot Converter	SH 4544	0.824	405.49	7.51	5.24
	1 045 9420	Pivot Converter	SH 4545	0.807	402.50	7.52	5.23
	1 045 9430	Beading Converter	SH 4583	0.540	277.69		



Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm4	Iy cm4
	1 045 9510	Skirting Board		1.072	345.42	15.470	11.75
	1 045 9520	Skirting Board	SH 4573	1.242	611.66	12.34	19.09
	1 045 9570	Brush Holder	SH 4581	0.359	156.77		
	1 045 9610	Central Nod	SH 4572	0.853	432.35	8.33	5.14
	1 045 9620	Central Nod	SH 4578	0.670	189.90	2.24	5.09
	1 045 9630	Central Nod	SH 4588	0.902	267.81	7.06	3.80
	1 045 9810	Large Infill Extension	SH 4582	0.591	174.00		
	1 045 9910	Rod	SH 4571	0.146	48.40		
	5 028 1210	Screen Frame	K 2231	0.641	247.55		
	5 028 4310	Screen Leaf	K 2241	0.477	164.93		

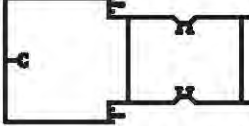


Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm ⁴	Iy cm ⁴
	5 028 9100	Central Nod	K 2273	0.302	185.75		
	5 028 9110	Central Nod	K 2272	0.672	250.37		
	5 900 5020	Transom	K 2251	0.385	106.84		
	5 900 5410	Transom	K 2252	0.610	198.19		
	5 900 9100	Gasket Cover	K 2281	0.100	53.20		
	9 001 1100	Gasket Cover	SH 8081	0.092	41.99		
	9 001 1300	Gasket Cover 3cm.	SH 8083	0.240	115.66		
	9 001 1302	Gasket Cover 3cm.	SH 8083.2	0.308	153.81		
	9 001 1303	Gasket Cover 3cm.	SH 8083.3	0.284	156.35		
	9 001 1304	Gasket Cover 3cm.	SH 8083.4	0.259	130.82		



Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm4	Iy cm4
	9 001 1305	Gasket Cover 3cm.	SH 8083.5	0.263	139.31		
	9 001 1308	Gasket Cover 3cm.		0.289	140.07		
	9 001 1500	Gasket Cover 5.4cm.	SH 8085	0.348	183.22		
	9 001 1502	Gasket Cover 5.4cm.	SH 8085.2	0.424	204.49		
	9 001 1503	Gasket Cover 5.4cm.	SH 8085.3	0.403	216.34		
	9 001 1504	Gasket Cover 5.4cm.	SH 8085.4	0.370	191.22		
	9 001 1505	Gasket Cover 5.4cm.	SH 8085.5	0.383	194.11		
	9 001 1508	Gasket Cover 5.4cm.		0.402	197.07		
	9 001 1700	Gasket Cover 7cm.	SH 8086	0.418	215.22		
	9 001 1702	Gasket Cover 7cm.	SH 8086.2	0.473	232.62		



Section	Code	Description	Old No.	Weight	Per.	Inertia	
				Kg/m.	mm.	Ix cm4	Iy cm4
	9 001 1703	Gasket Cover 7cm.	SH 8086.3	0.403	248.33		
	9 001 1704	Gasket Cover 7cm.	SH 8086.4	0.434	223.22		
	9 001 1705	Gasket Cover 7cm.	SH 8086.5	0.457	232.24		
	9 001 1708	Gasket Cover 7cm.		0.482	238.07		
	9 002 1200	Gasket Cover	SH 8087	0.181	81.24		
	9 002 1220	Gasket Cover		0.289	121.230		
	9 002 1700	Gasket Cover 7.2cm.	SH 8089	0.378	181.730		
	9 008 5140	Connection Profile	SH 8099	2.404	497.350	174.19	55.30

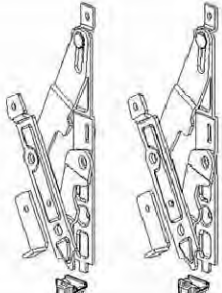
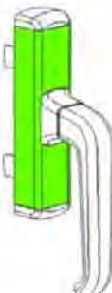


	01 0103 0 Old No.0301 Corner Joint <i>Material:</i> Aluminium <i>Finishes:</i> Raw		00 0000 0 Old No.CO 1110 Corner Joint <i>Material:</i> Aluminium <i>Finishes:</i> Raw
	01 3451 0 Old No.0345 Corner Joint <i>Material:</i> Aluminium <i>Finishes:</i> Raw		01 7710 0 Old No.0571 Alignment Angle <i>Material:</i> Steel <i>Finishes:</i> Galvanized
	01 3453 0 Old No.0345-47 Corner Joint <i>Material:</i> Aluminium <i>Finishes:</i> Raw		01 7740 0 Old No.0574 Alignment Angle <i>Material:</i> Steel <i>Finishes:</i> Galvanized
	01 4100 0 Old No.0310 Corner Joint <i>Material:</i> Aluminium <i>Finishes:</i> Raw		01 7750 0 Old No.0575 Alignment Angle <i>Material:</i> Steel <i>Finishes:</i> Galvanized
	01 4110 0 Old No.0311 Corner Joint <i>Material:</i> Aluminium <i>Finishes:</i> Raw		01 8700 0 Old No.0570 Alignment Angle <i>Material:</i> Nylon <i>Finishes:</i> Black



	06 2700 0 Old No.0270 FLASH 2 Wings Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		06 3710 0 Old No.0271 3 Wings Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral
	06 2720 0 Old No.0272 3 Wings Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		08 1920 0 Old No.0292 2 Wings Door Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral
	06 2730 0 Old No.0273 BRIDGE 3 Wings Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		08 1930 0 Old No.0293 3 Wings Door Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral
	06 3510 0 Old No.0251 2 Wings Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		08 2960 0 Old No.0296 2 Wings Door Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral
	06 3522 0 Old No.0254 2 Wings Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		08 2990 0 Old No.0299 3 Wings Door Hinge <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral



	10 1900 0 Old No.2090 Balancing Arms <i>Material:</i> Aluminium <i>Finishes:</i> Anodized		30 1700 0 Old No.0700 SIGMA Cremone Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw,Ral
	10 3960 0 Old No.2096 Balancing Arms <i>Material:</i> Steel <i>Finishes:</i> Galvanized		30 1770 0 Old No.0707 AMON Cremone Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw,Ral
	15 1300 0 Old No. 1430 Pivot Set <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		30 2740 0 Old No.0704 ATON Cremone Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw,Ral
	15 1320 0 Old No.1432 Pivot Set <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		32 1300 0 Old No.1630 Window Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral
	28 1100 0 Old No.3510 Drainage Cover <i>Material:</i> Nylon <i>Finishes:</i> Black		32 1350 0 Old No.1635 Window Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral



	34 1050 0 Old No.1705 Finger Catch Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		34 2470 1 Old No.1747 Finger Catch Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral
	34 1150 0 Old No.1715 Finger Catch Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		36 1100 0 Old No.2410 Door Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral
	34 2400 0 Old No. 1740 Finger Catch Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		36 1180 0 Old No.2418 Door Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral
	34 2450 1 Old No.1745 Finger Catch Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		36 2140 Old No.2414 Door Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral
	34 2460 1 Old No.1746 Finger Catch Handle <i>Material:</i> Aluminium <i>Finishes:</i> Raw Anodized,Ral		50 0510 0 Old No.0510 Locking Point <i>Material:</i> Nylon <i>Finishes:</i> Black



	50 1150 0 Old No.0515 Additional Locking Point <i>Material:</i> Nylon <i>Finishes:</i> Black		50 3260 0 Old No.0526 Striker <i>Material:</i> Zamac <i>Finishes:</i> Galvanized
	50 1160 0 Old No.0516 Additional Locking Point <i>Material:</i> Zamac <i>Finishes:</i> Galvanized		50 8800 0 Old No.0580 Connection Kit <i>Material:</i> Aluminium <i>Finishes:</i> Raw, Ral
	50 1180 0 Old No.0518 Additional Locking Point <i>Material:</i> Zamac <i>Finishes:</i> Galvanized		52 1450 0 Old No.2145 Lever Bolt <i>Material:</i> Nylon <i>Finishes:</i> Black
	50 2210 0 Old No.0521 End Terminal <i>Material:</i> Nylon <i>Finishes:</i> Black		54 1040 0 Old No.2204 Lock Striker <i>Material:</i> Nylon <i>Finishes:</i> Black
	50 3250 0 Old No.0525 Striker <i>Material:</i> Nylon <i>Finishes:</i> Black		54 1060 0 Old No.2206 Lock Striker <i>Material:</i> Nylon <i>Finishes:</i> Black



	60 0500 0
	Old No.0550
	Nylon Clip
	<i>Material:</i> Nylon <i>Finishes:</i> Black

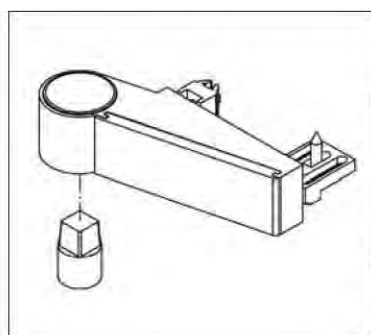
	KIT 10452
	Locking Point Kit
	<i>Material:</i> Nylon <i>Finishes:</i> Black

	62 1450 0
	Old No.0545
	Central Rabbet Plug
	<i>Material:</i> Nylon <i>Finishes:</i> Black

	KIT 10451
	Locking Point Kit
	<i>Material:</i> Nylon <i>Finishes:</i> Black

	Old No.
	Punching Tool For Basic Operations
	<i>Material:</i>
	<i>Finishes:</i>

	Old No.
	Punching Tool For Basic Operations
	<i>Material:</i>
	<i>Finishes:</i>

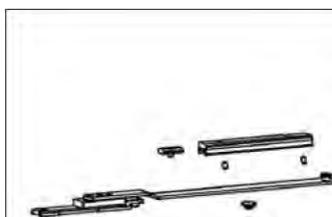


GS 0162

Support Hinge

Material: Aluminium

Finishes: Natural,
Anodized, Ral

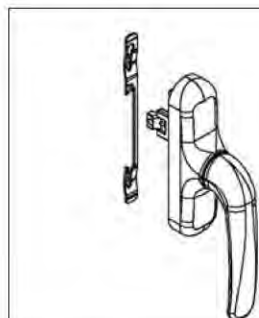


GS 4301

Telt & Turn
Additional Arm

Material: Steel

Finishes: Natural

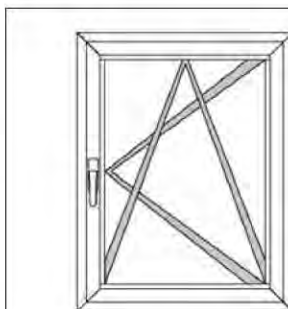


GS 1033

Telt & Turn
Cremone Handle

Material: Aluminium

Finishes: Natural,
Anodized, Ral



GS 4703

Telt & Turn
Normal Windows

Material:

Finishes: Natural

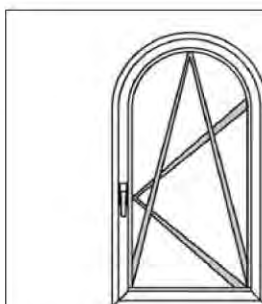


GS 2030

Friz Window Stsy

Material: Aluminium

Finishes: Natural

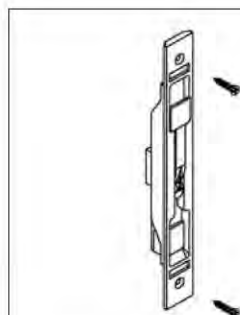


GS 4673

Telt & Turn
Areched Windows

Material:

Finishes: Natural

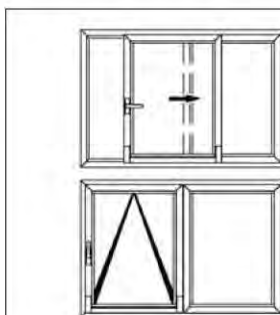


GS 2150

Pesos Lever Bolt
For Doors

Material: Zamac

Finishes: Natural

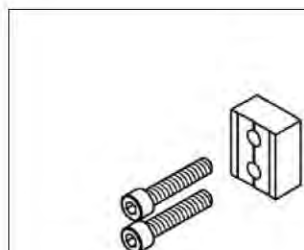


GS

Telt & Slide
Normal Windows

Material:

Finishes: Natural



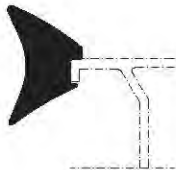
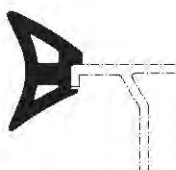
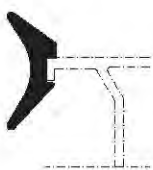
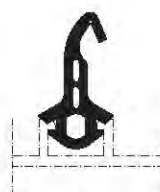
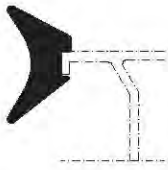
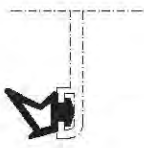
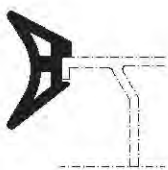
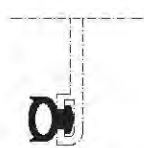
GS 3232

Thickning Kit

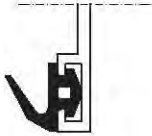
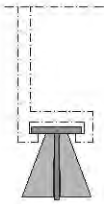
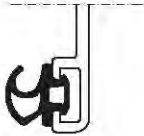
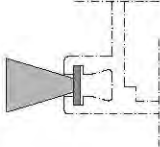
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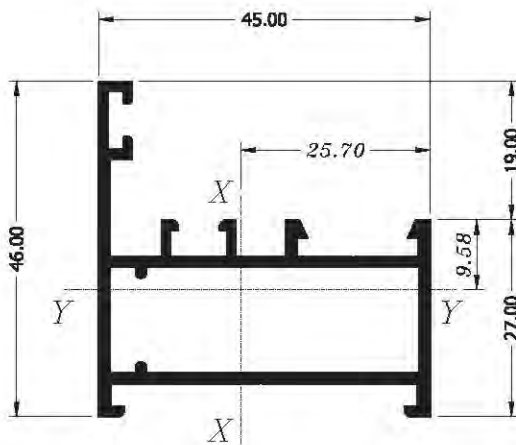
Finishes: Natural



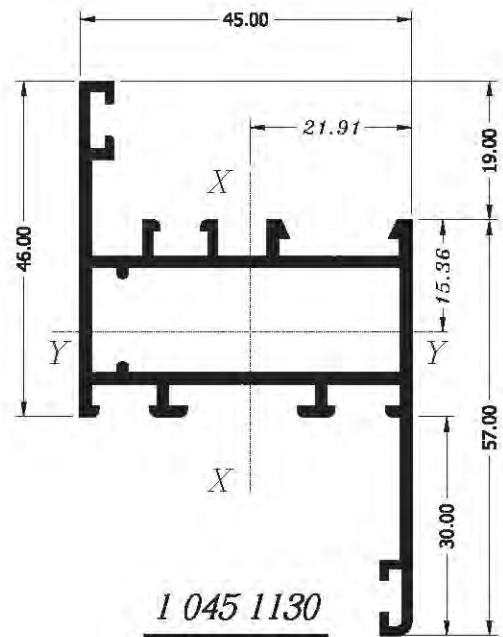
 Thickness 2:4mm.	GT 0111 Glazing Gasket 2:4mm. <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black	 Thickness 6:7mm.	GT 0126 Glazing Gasket 6:7mm. <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black
 Thickness 4:6mm.	GT 0112 Glazing Gasket 4:6mm. <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black	 Thickness 6:7mm.	GT 0126-1 Glazing Gasket 6:7mm. <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black
 Thickness 2:3mm.	GT 0122 Glazing Gasket 2:3mm. <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black		GT 0132 Central Gasket <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black
 Thickness 4:5mm.	GT 0124 Glazing Gasket 4:5mm. <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black		GT 0141 Striker Gasket <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black
 Thickness 4:5mm.	GT 0124-1 Glazing Gasket 4:5mm. <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black		GT 0142 Striker Gasket <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black



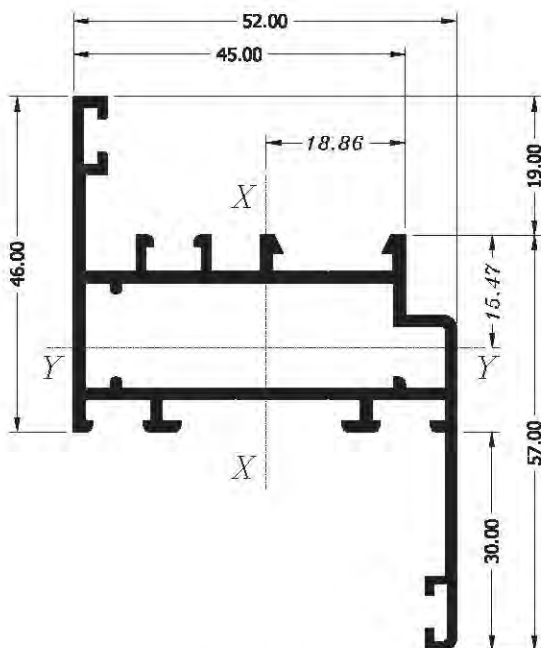
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	GT 0149 Striker Gasket <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black		WS 0510 Weather Strip 5x10 <i>Material:</i> <i>Finishes:</i> Black
	GT 0152 Frame Gasket <i>Material:</i> E.P.D.M. <i>Finishes:</i> Black		



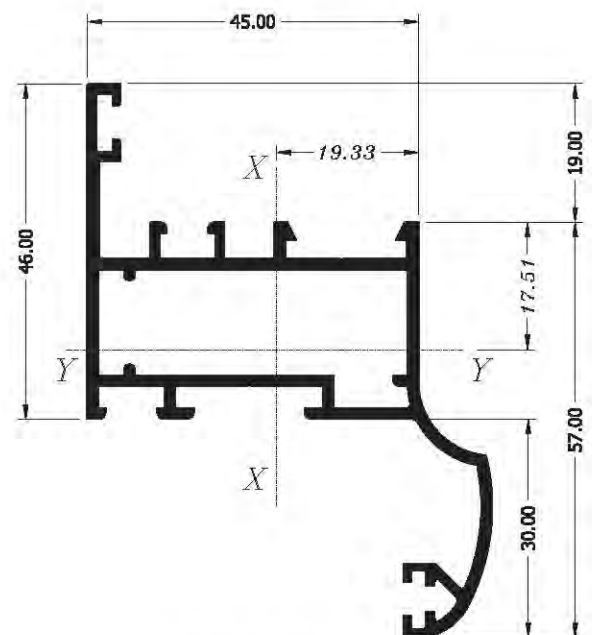
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0.764 Kg./ml.



1 045 1130
0.966 Kg./ml.

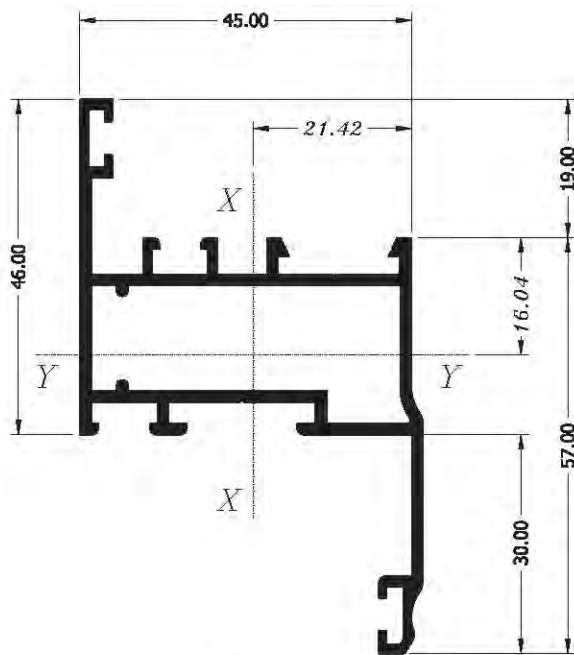


1 045 1131
1.018 Kg./ml.

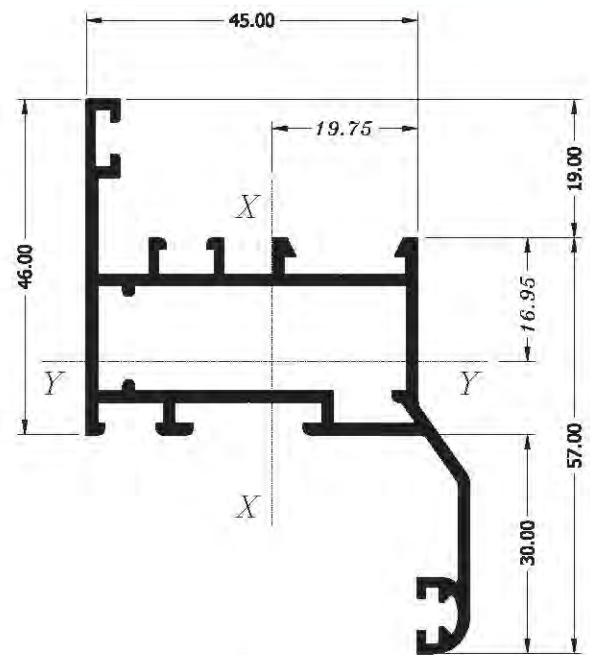


1 045 1132
1.040 Kg./ml.

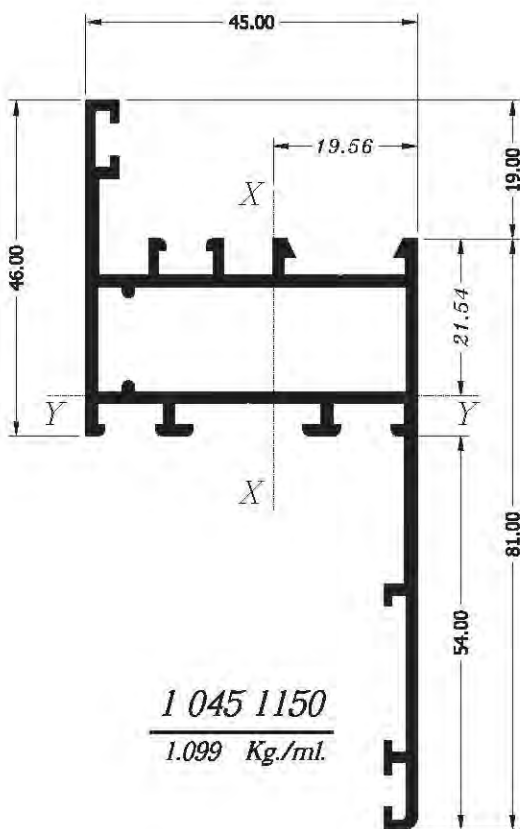
Profile No.	1 045 1100	1 045 1130	1 045 1131	1 045 1132
Profile Old No.	SH 4510	SH 4511	SH 4513	SH 4511.2



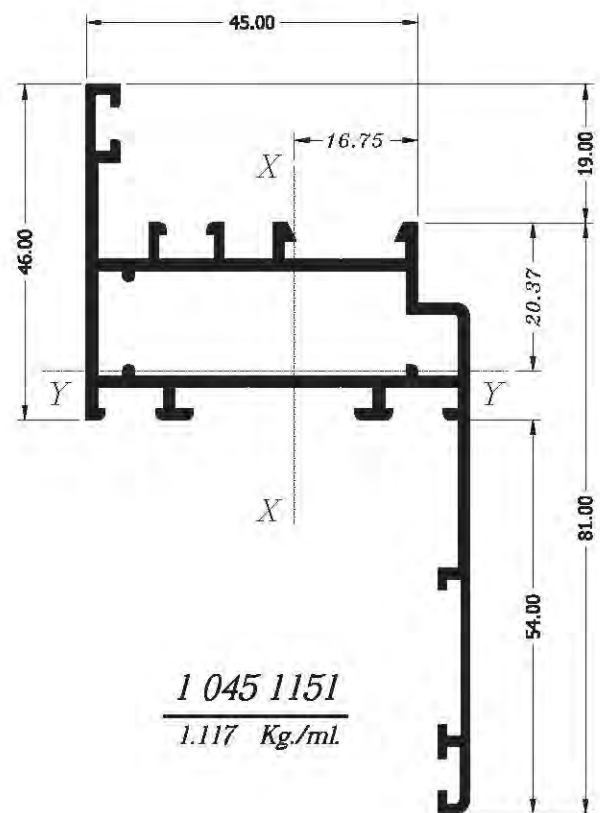
1 045 1134
0.974 Kg./ml.



1 045 1138
1.015 Kg./ml.

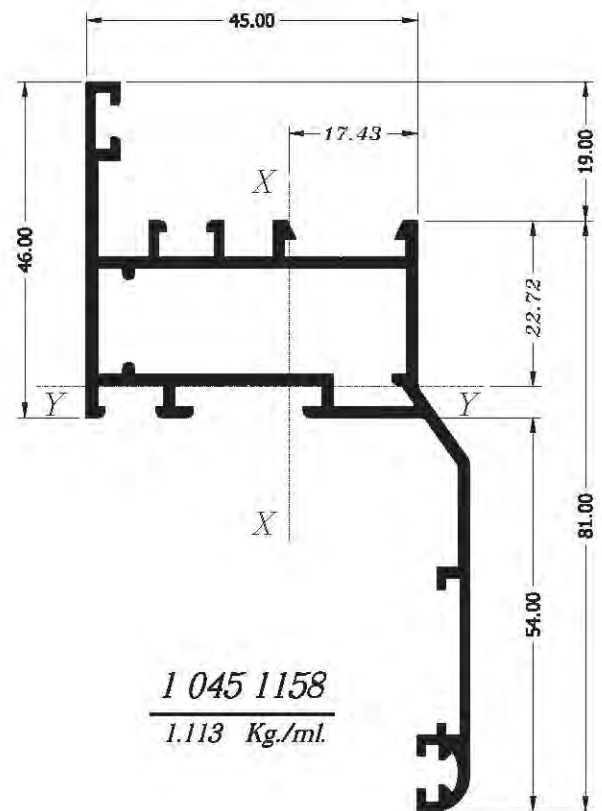
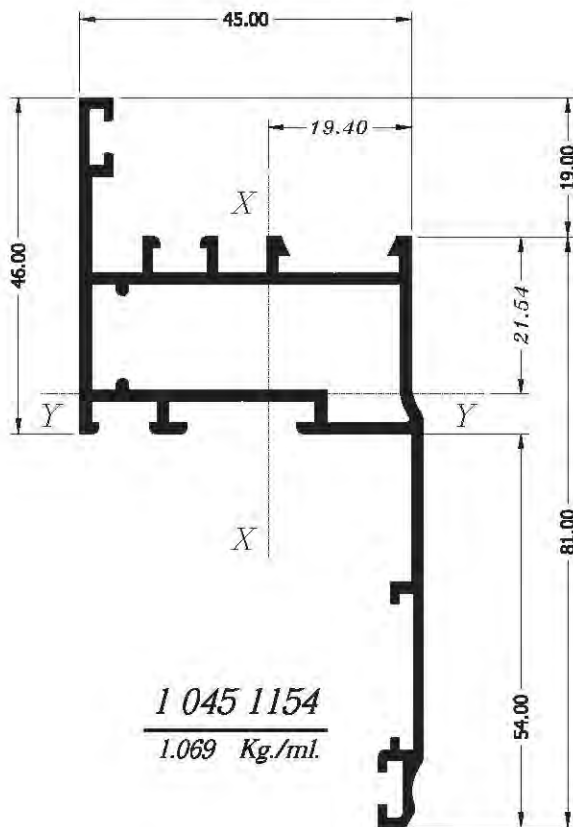
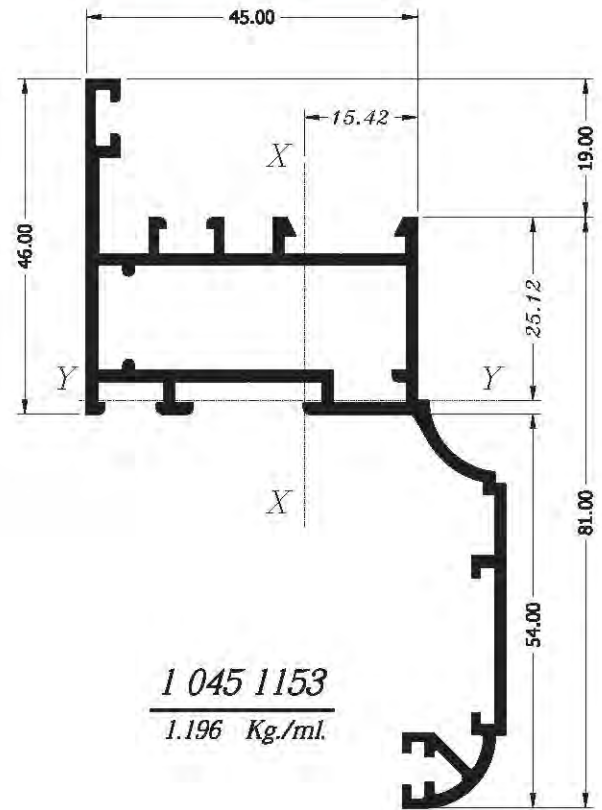
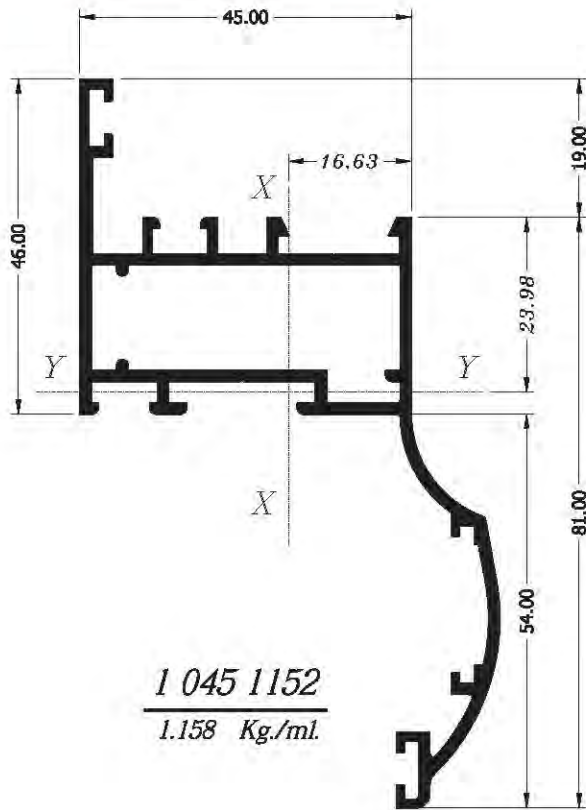


1 045 1150
1.099 Kg./ml.

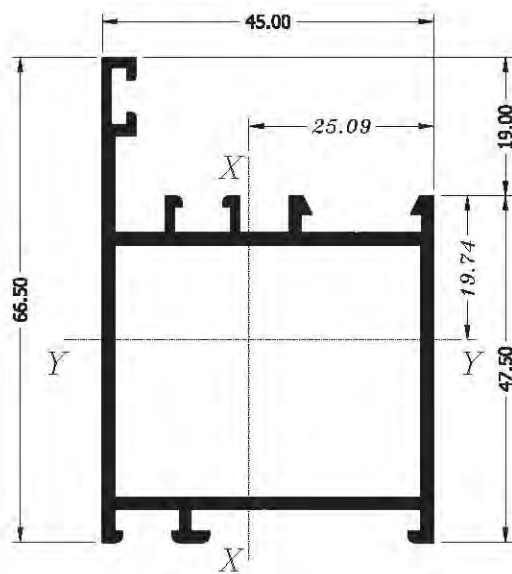


1 045 1151
1.117 Kg./ml.

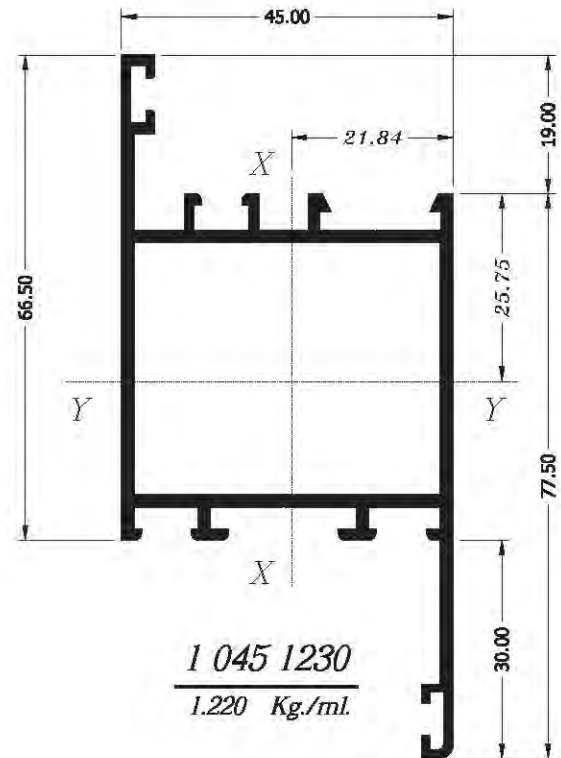
Profile No.	1 045 1138	1 045 1150
Profile Old No.	SH 4511.3	SH 4512



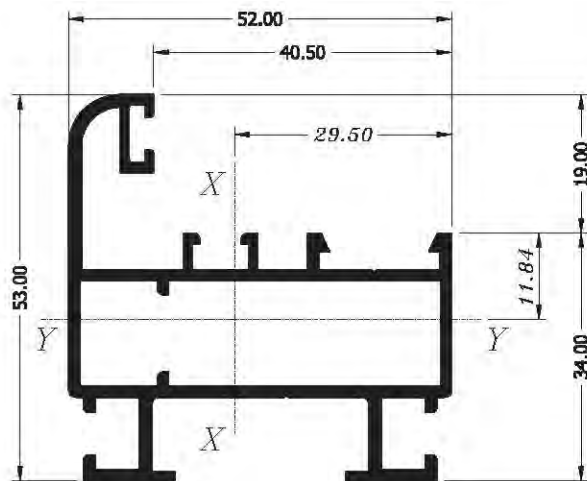
Profile No.	1 045 1152	1 045 1153
Profile Old No.	SH 4512.2	SH 4512.3



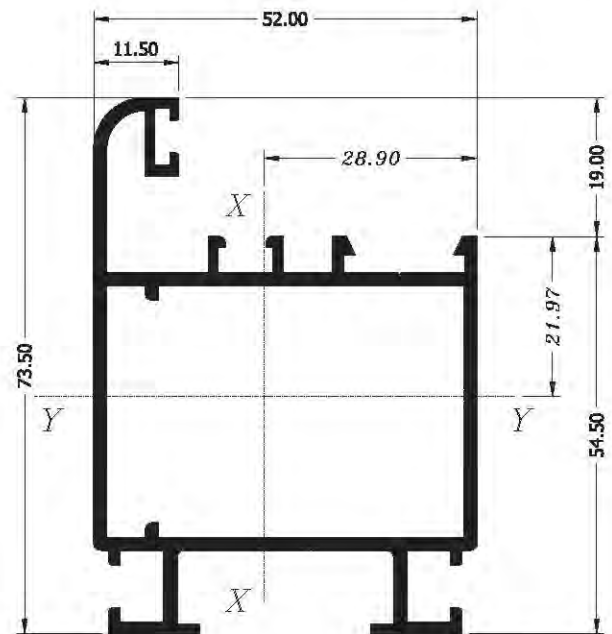
1 045 1200
1.042 Kg./ml.



1 045 1230
1.220 Kg./ml.

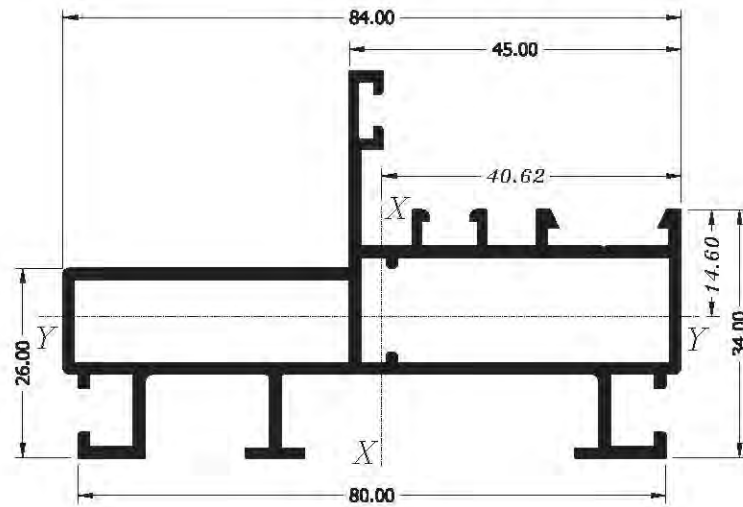


1 045 1420
1.064 Kg./ml.

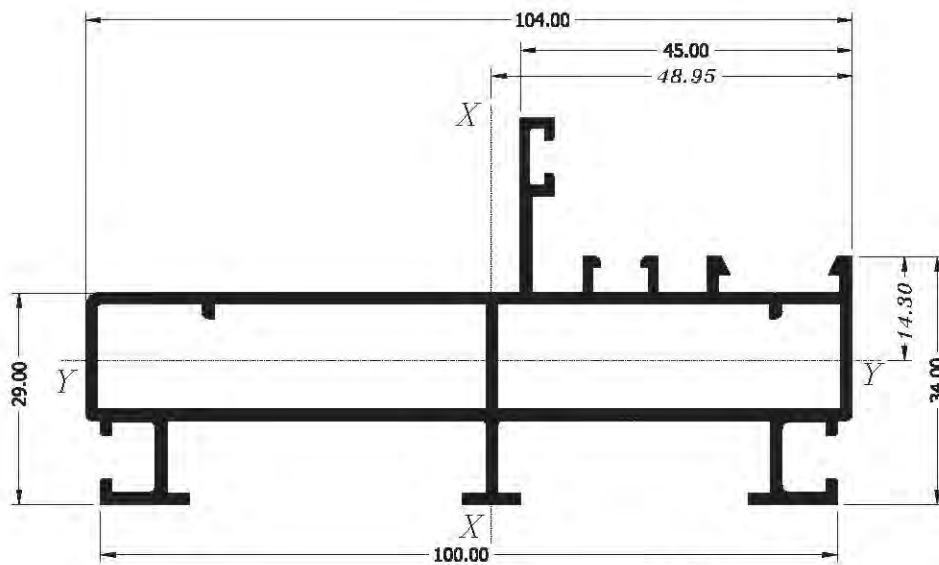


1 045 1520
1.320 Kg./ml.

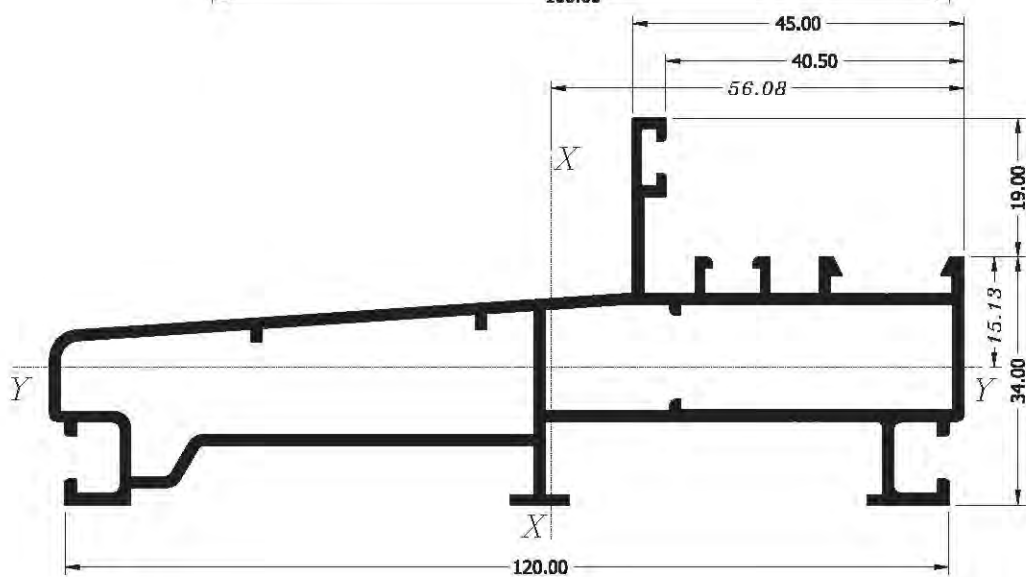
Profile No.	1 045 1200	1 045 1230	1 045 1420	1 045 1520
Profile Old No.	SH 4515	SH 4516	SH 4514	SH 4518



1 045 2082
1.345 Kg./ml.

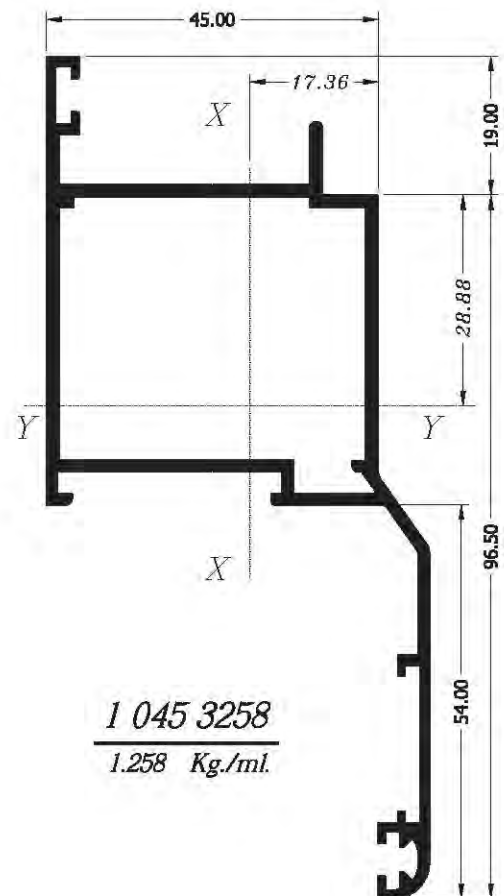
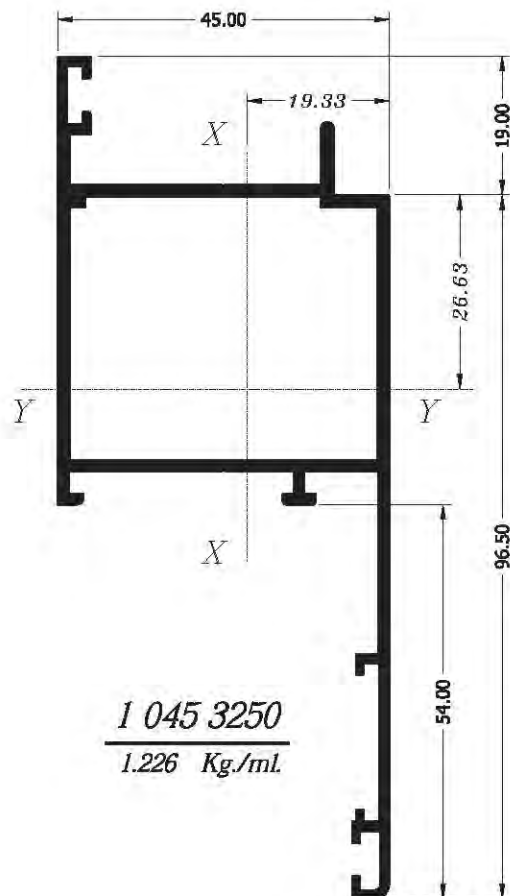
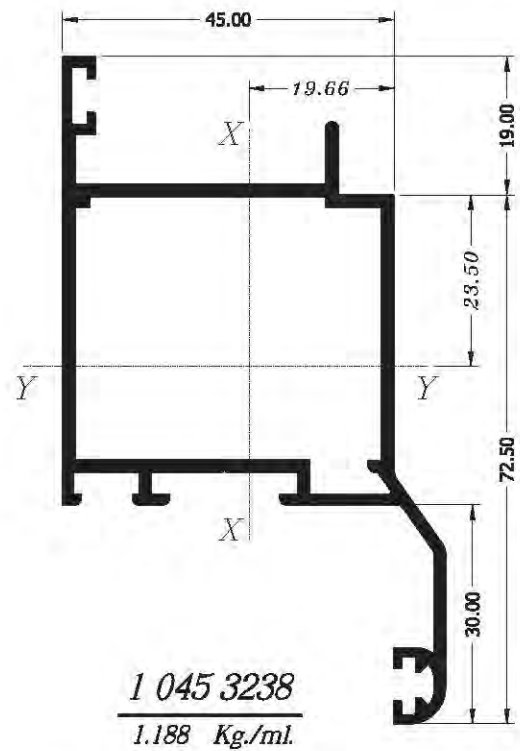
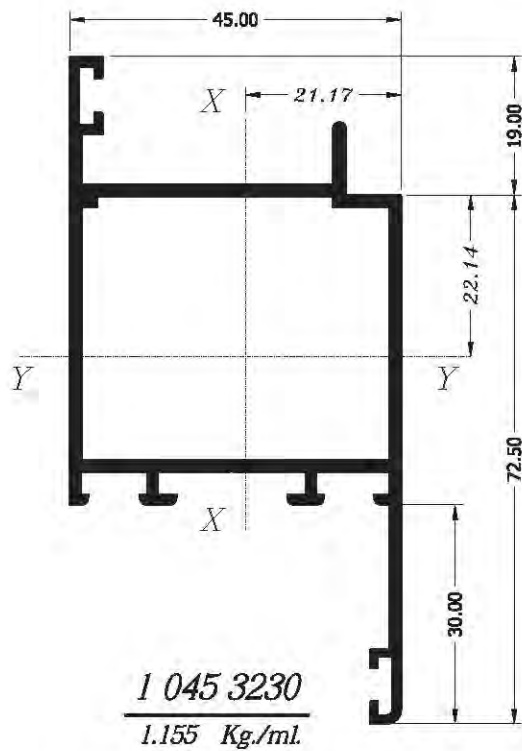


1 045 2102
1.539 Kg./ml.



1 045 2122
1.612 Kg./ml.

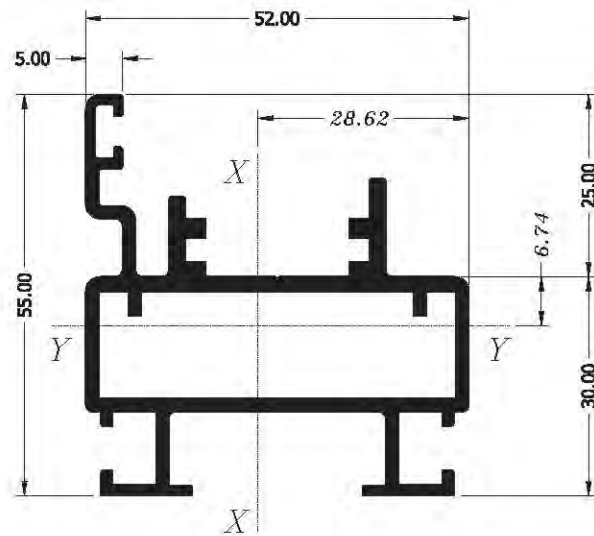
Profile No.	1 045 2082	1 045 2102	1 045 2122
Profile Old No.	SH 8045	SH 8096	SH 8093



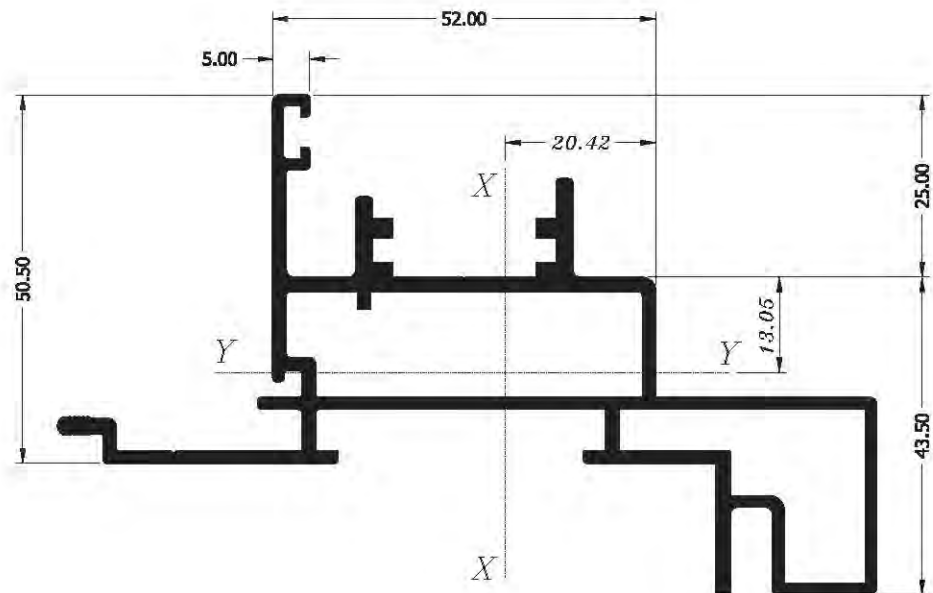
Profile No.	1 045 3230	1 045 3250
Profile Old No.	SH 4531	SH 4532



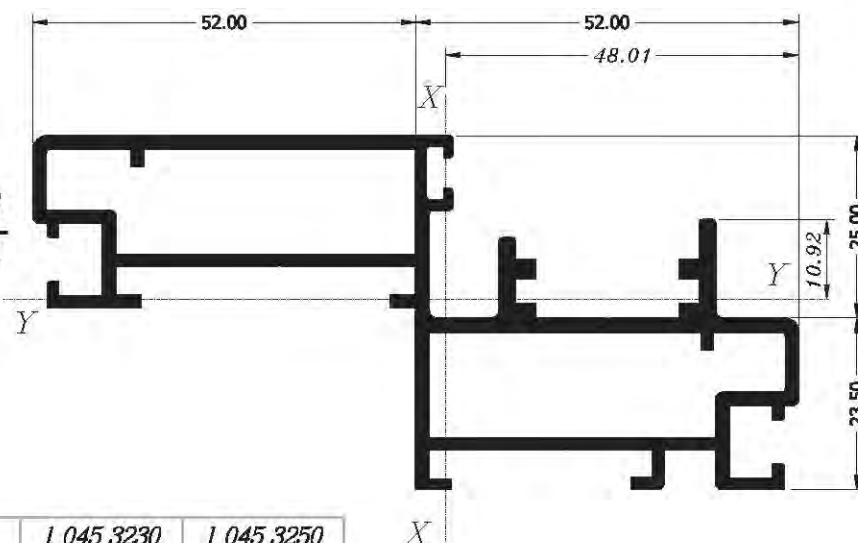
1 045 3620
1.301 Kg./ml.



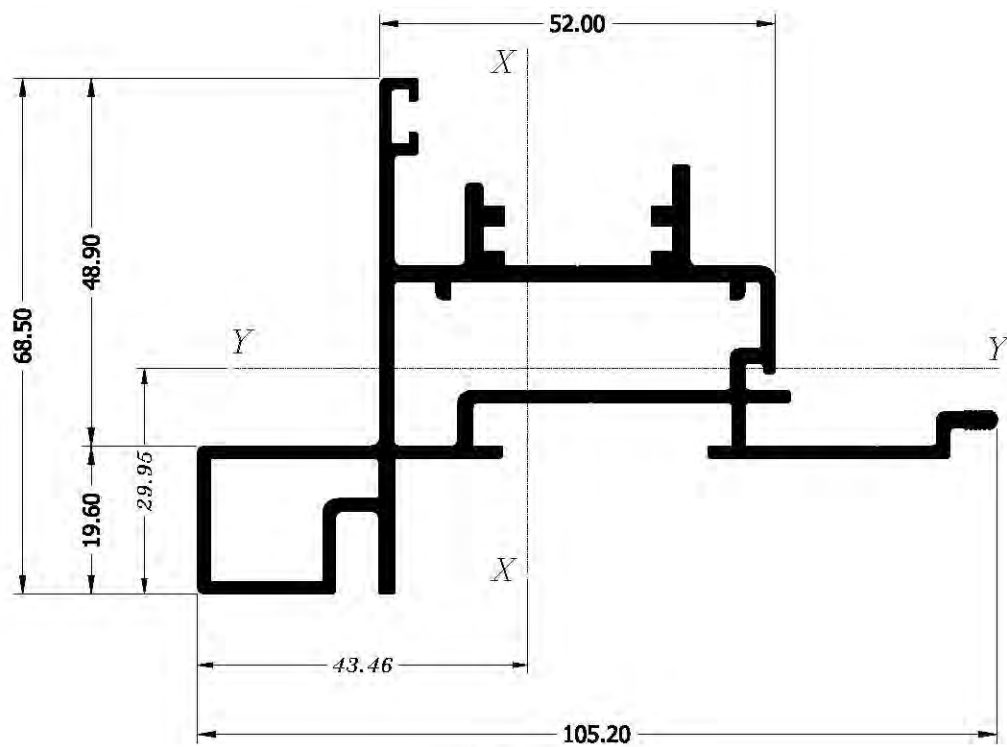
1 045 3619
1.835 Kg./ml.



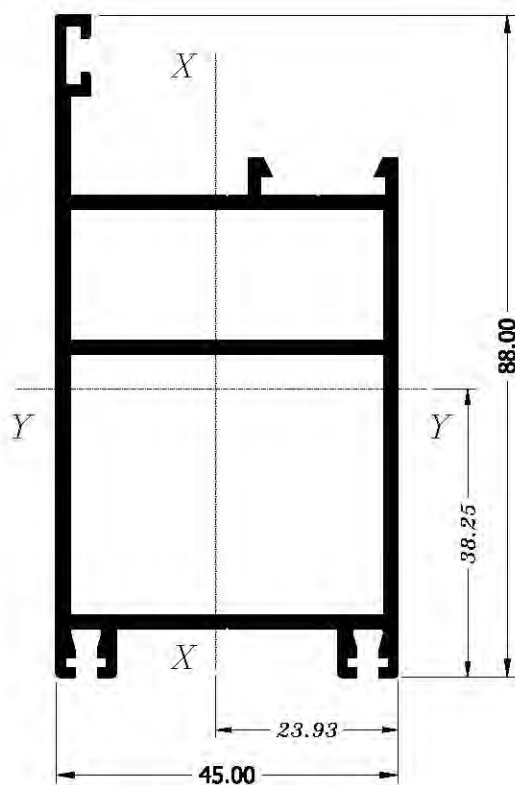
1 045 3623
1.830 Kg./ml.



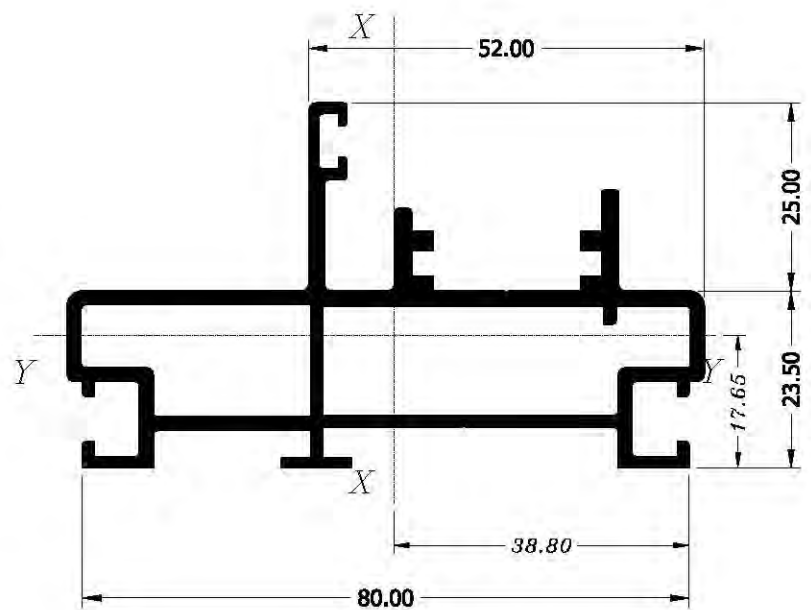
Profile No.	1 045 3230	1 045 3250
Profile Old No.	SH 4531	SH 4532



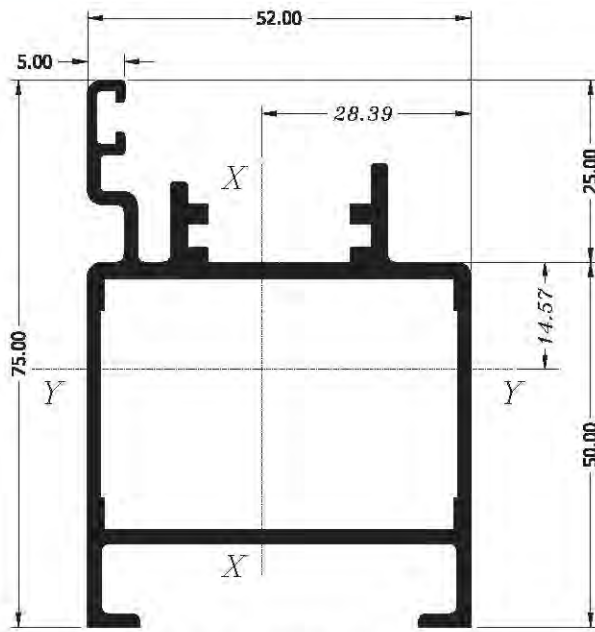
1 045 3692
1.798 Kg./ml.



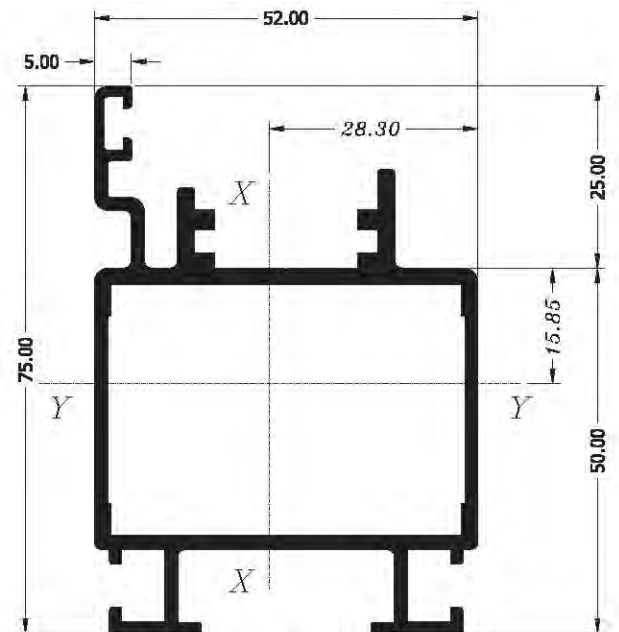
1 045 4820
1.497 Kg./ml.



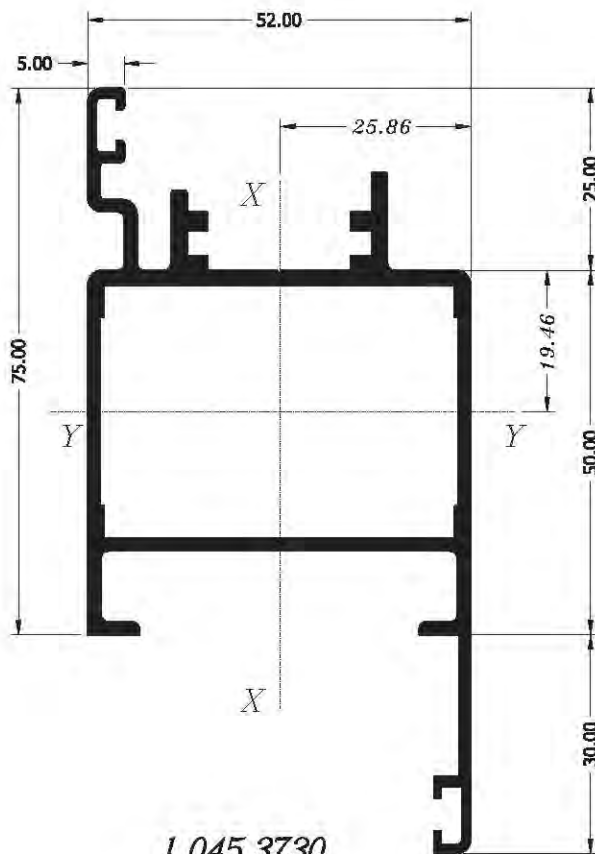
1 045 2682
1.598 Kg./ml.



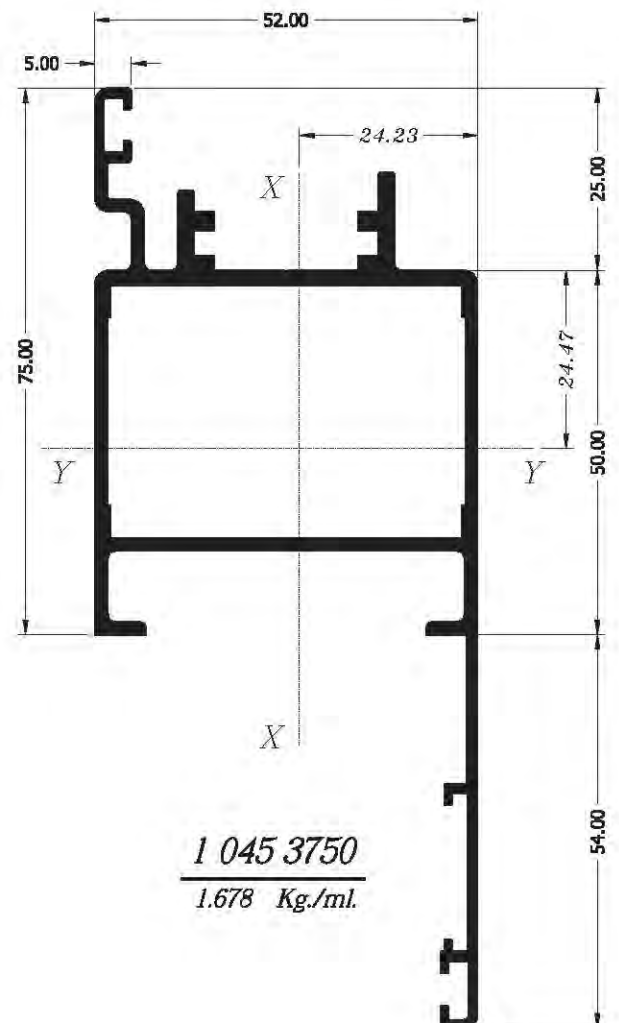
1 045 3700
1.420 Kg./ml.



1 045 3720
1.478 Kg./ml.

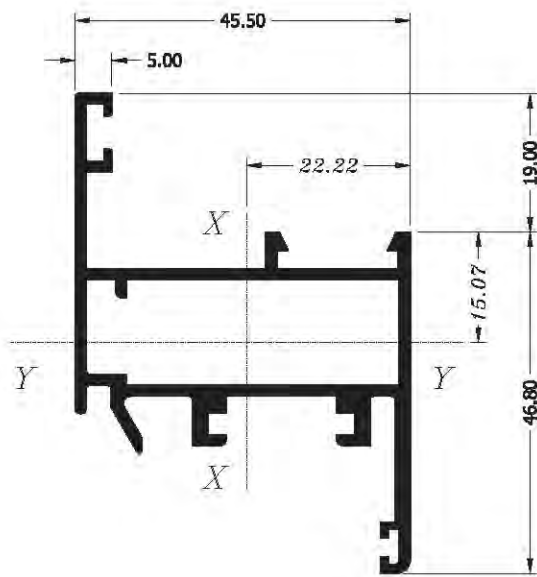


1 045 3730
1.567 Kg./ml.

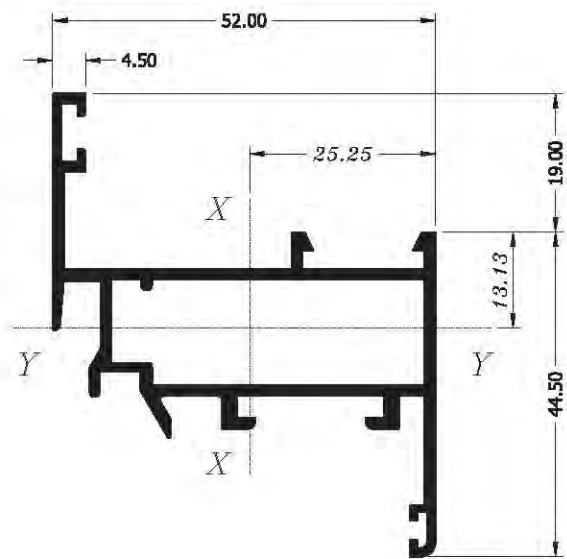


1 045 3750
1.678 Kg./ml.

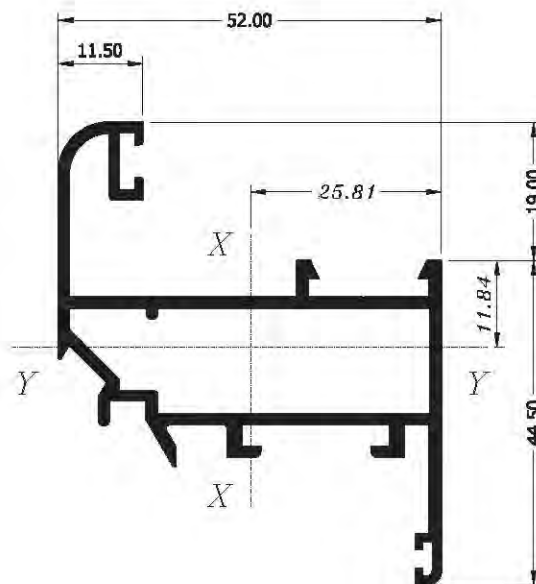
Profile No.	1 045 3700	1 045 3720
Profile Old No.	SH 4517	SH 4519



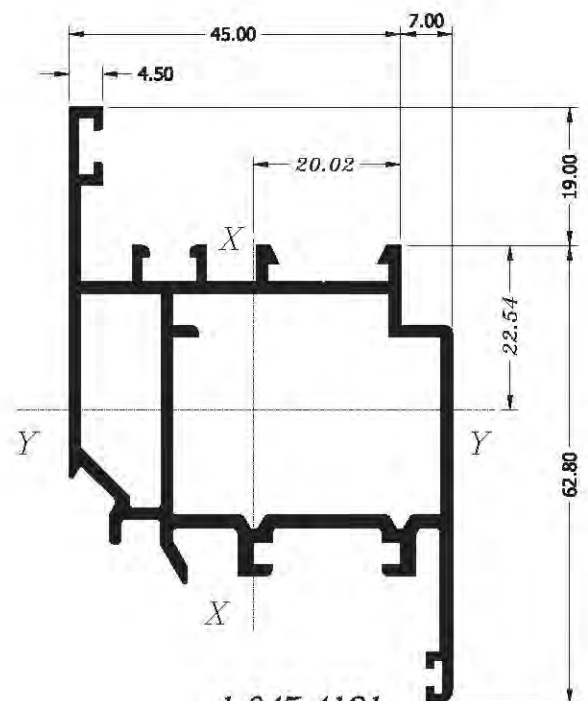
1 045 4010
0.999 Kg./ml.



1 045 4100
0.929 Kg./ml.

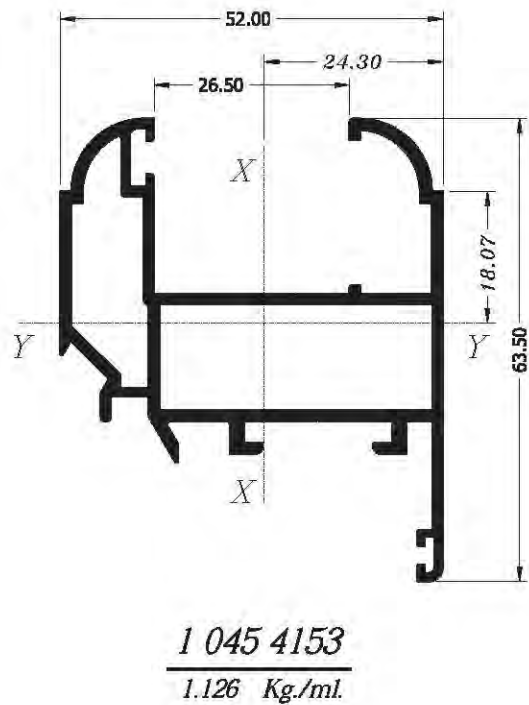
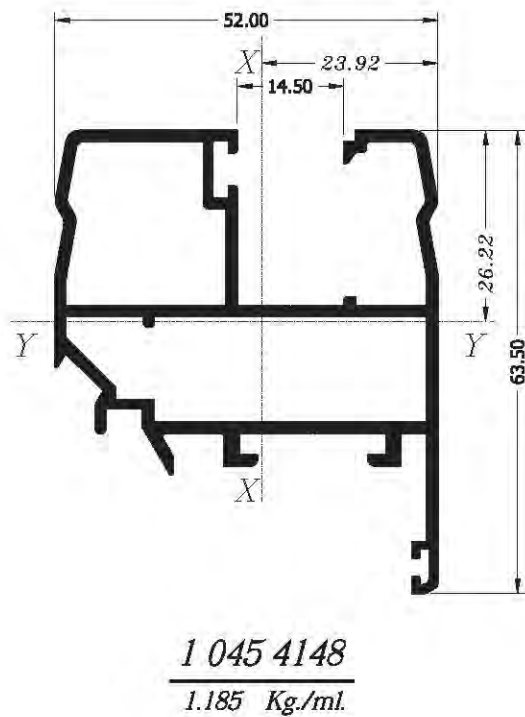
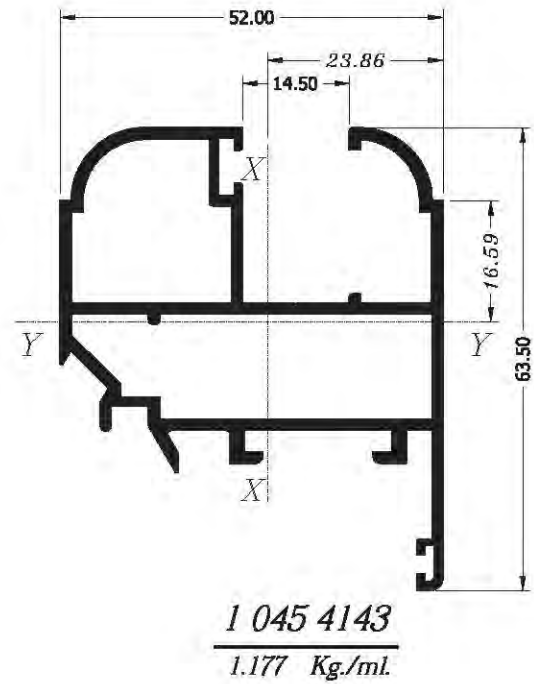
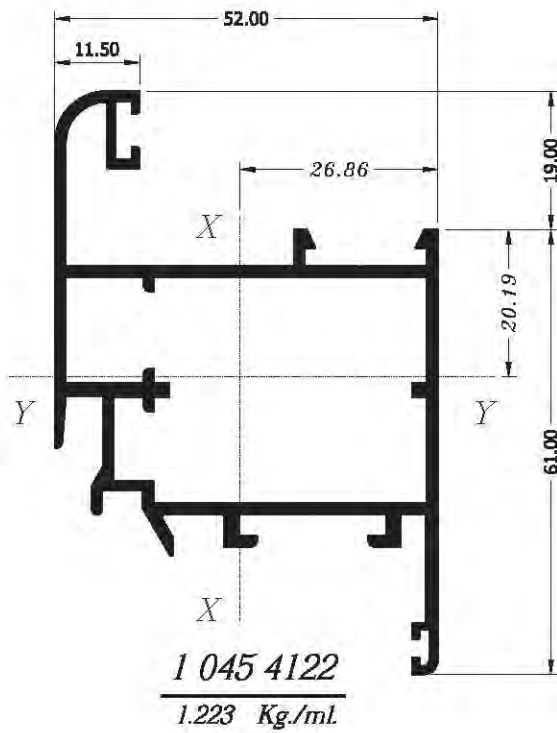


1 045 4112
0.986 Kg./ml.

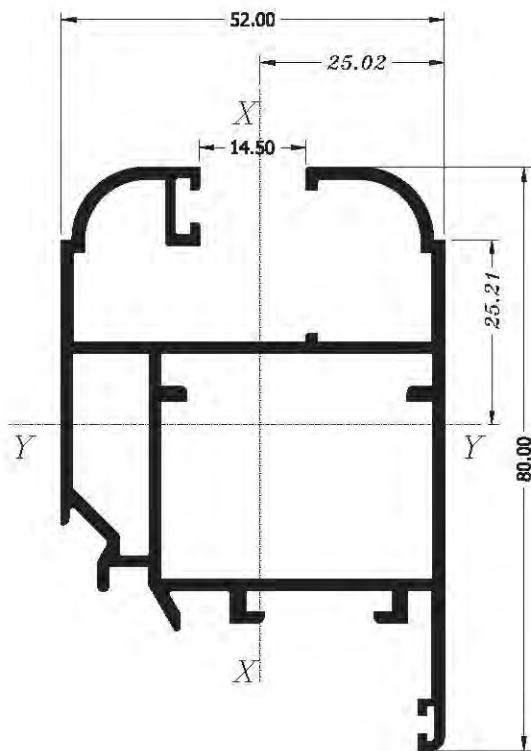


1 045 4121
1.297 Kg./ml.

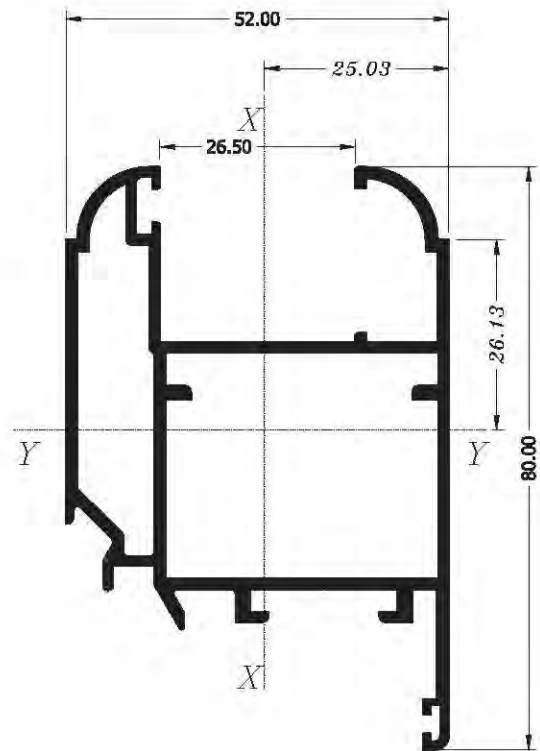
Profile No.	1 045 4010	1 045 4100	1 045 4112	1 045 4121
Profile Old No.	SH 4548	SH 4521	SH 4522	SH 4549



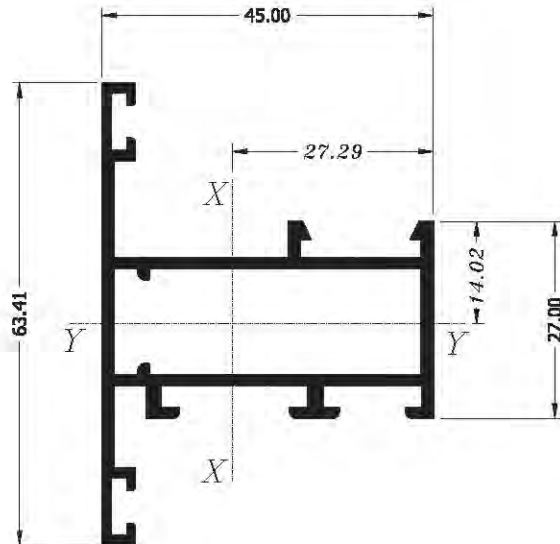
Profile No.	1 045 4122	1 045 4143	1 045 4153
Profile Old No.	SH 4527	SH 4524	SH 4525



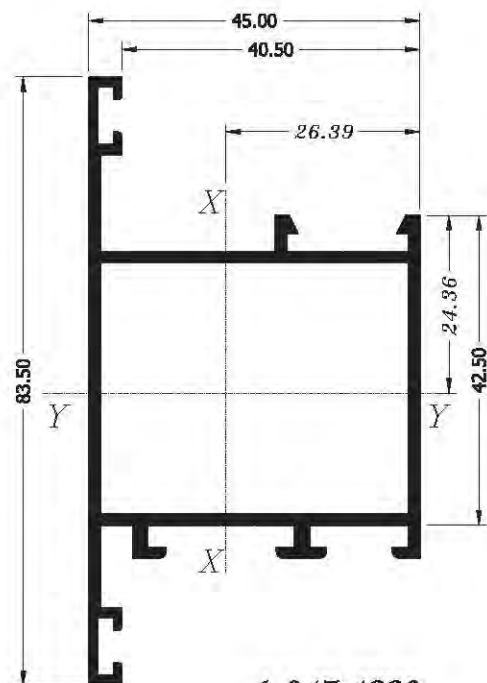
1 045 4163
1.415 Kg./ml.



1 045 4173
1.375 Kg./ml.

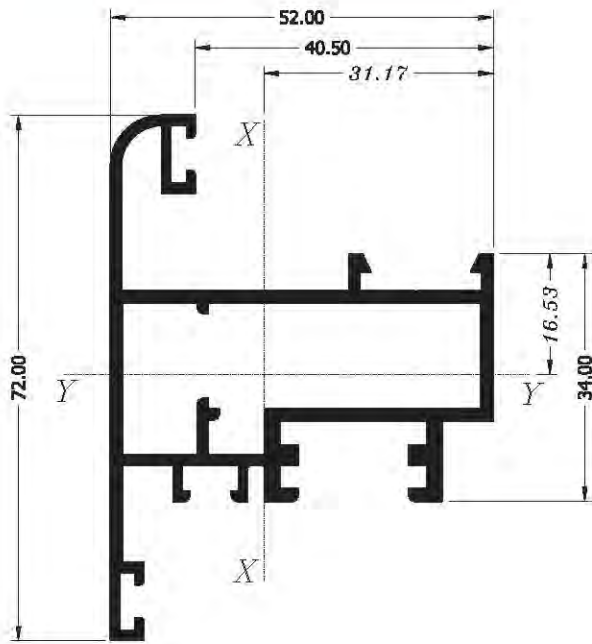


1 045 4210
0.903 Kg./ml.

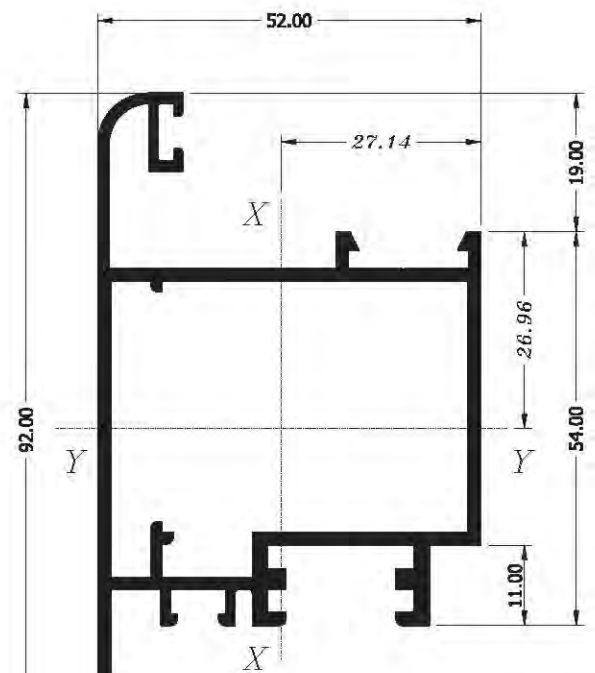


1 045 4220
1.064 Kg./ml.

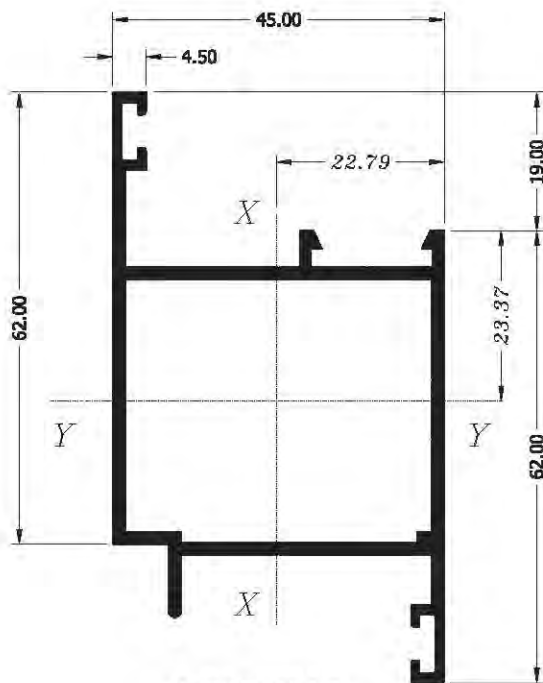
Profile No.	1 045 4220
Profile Old No.	SH 4529



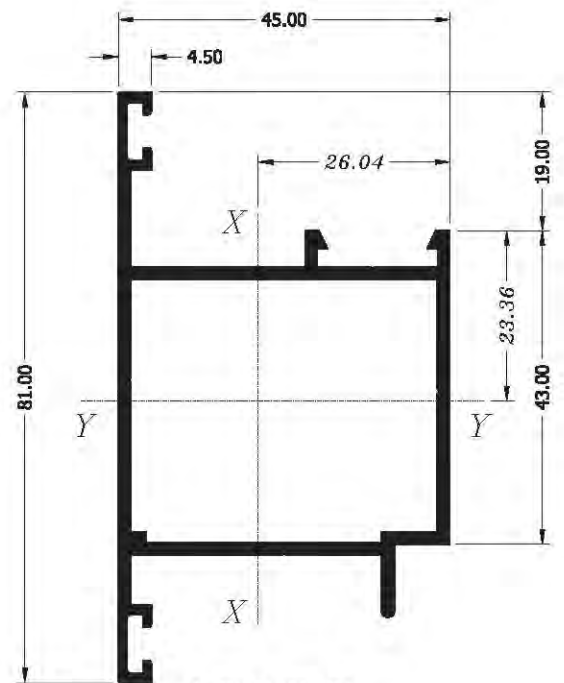
1 045 4310
1.250 Kg./ml.



1 045 4320
1.438 Kg./ml.

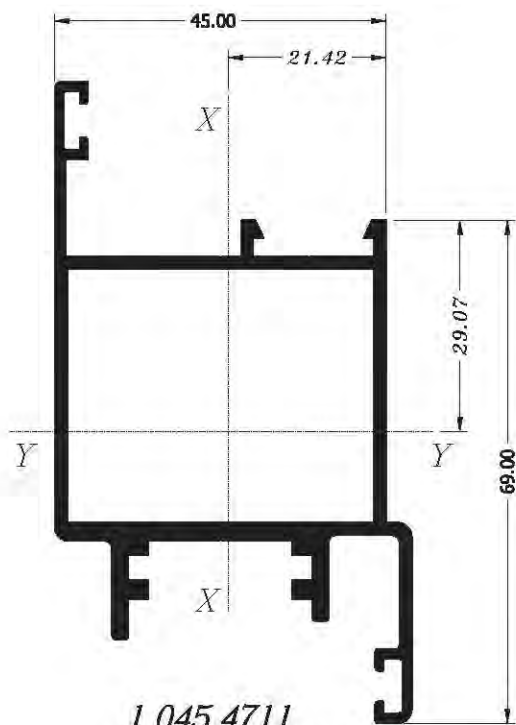


1 045 4610
1.080 Kg./ml.



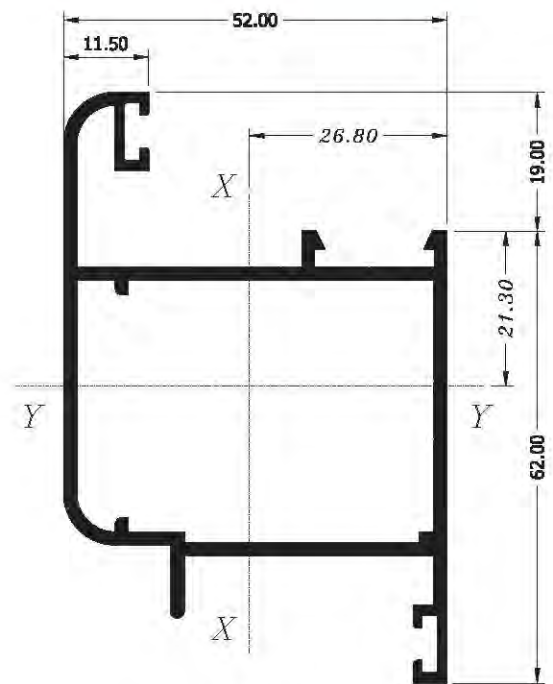
1 045 4620
1.080 Kg./ml.

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



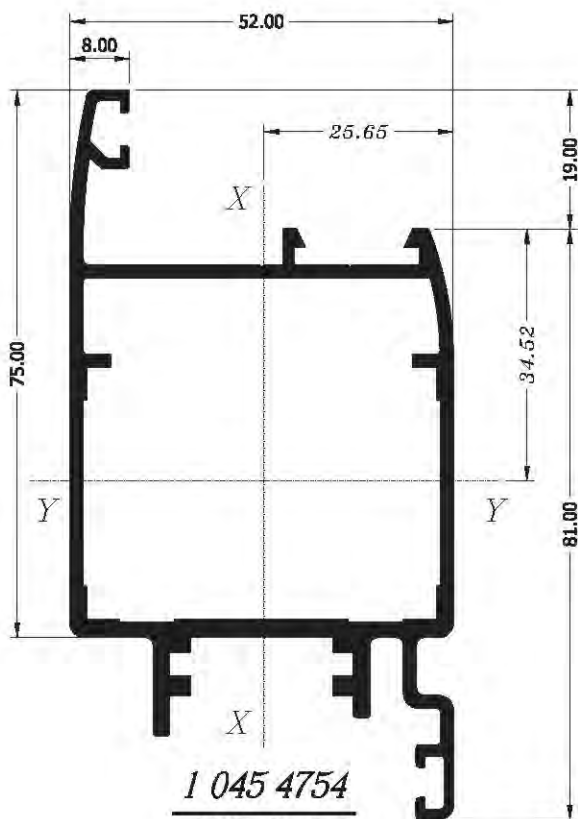
1 045 4711

1.357 Kg./ml.



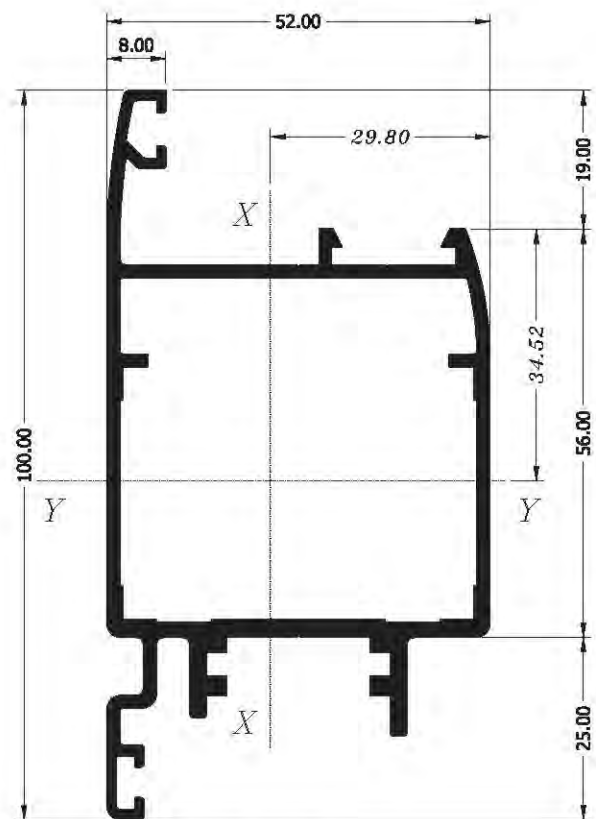
1 045 4652

1.210 Kg./ml.



1 045 4754

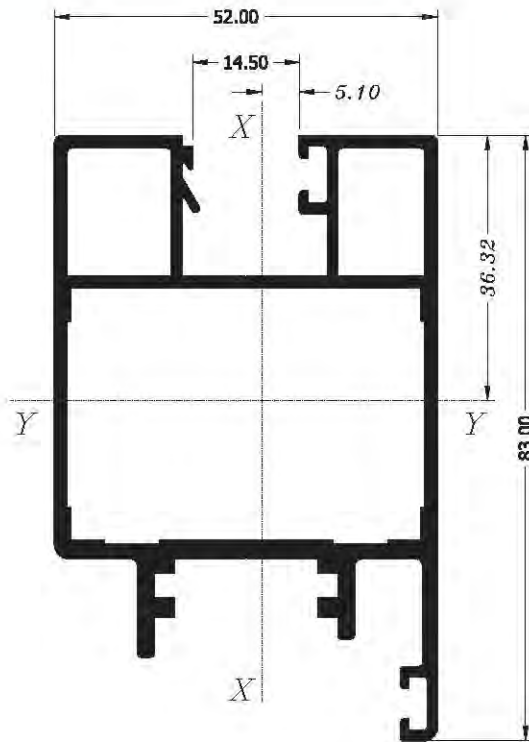
1.638 Kg./ml.



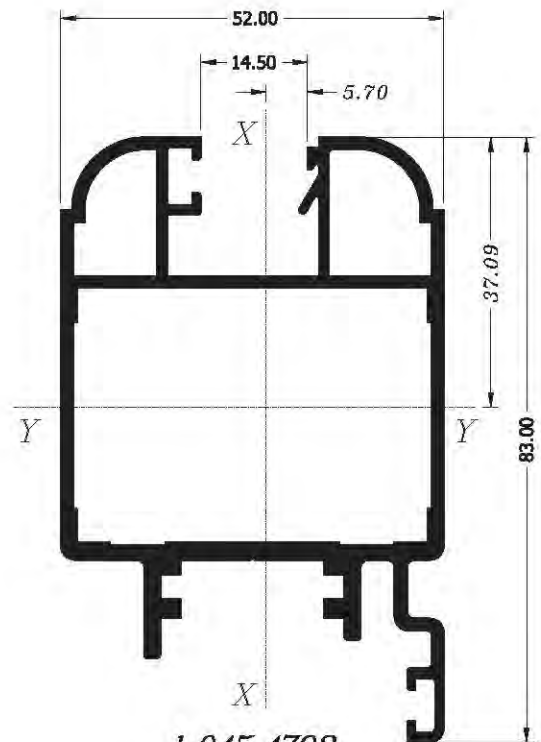
1 045 4764

1.639 Kg./ml.

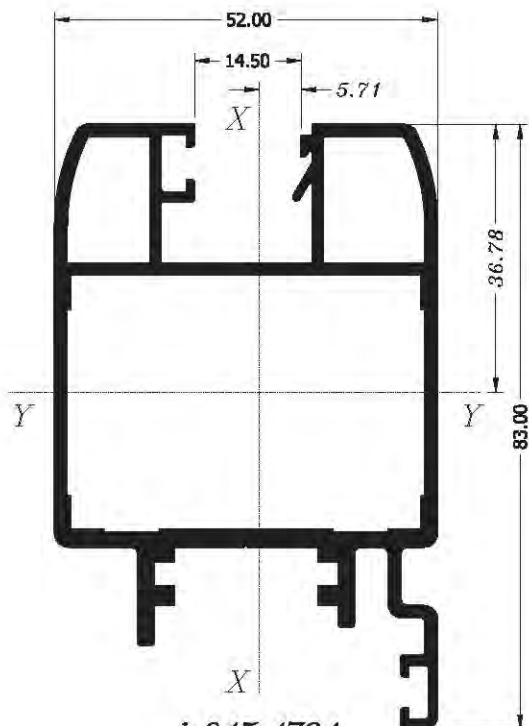
Profile No.	1 045 4652	1 045 4754	1 045 4764
Profile Old No.	SH 4537	SH 4538	SH 4534



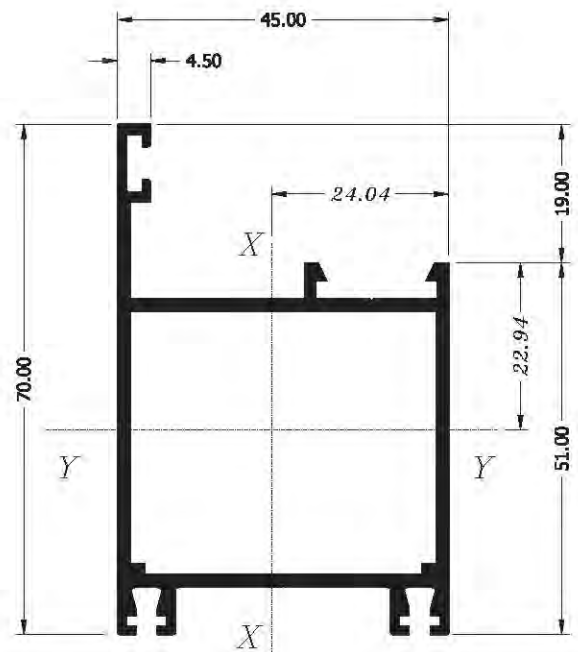
1 045 4790
1.778 Kg./ml.



1 045 4793
1.747 Kg./ml.

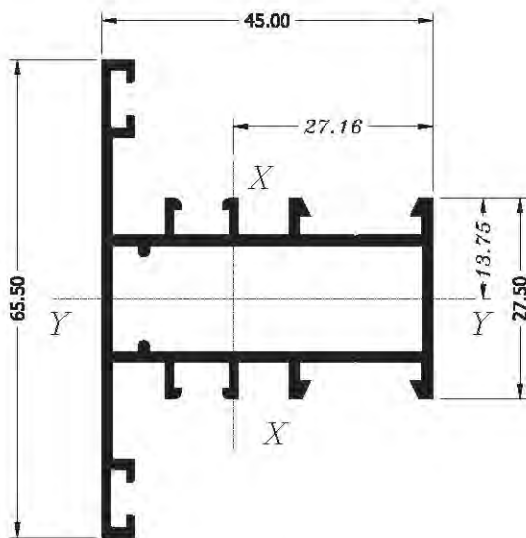


1 045 4794
1.758 Kg./ml.

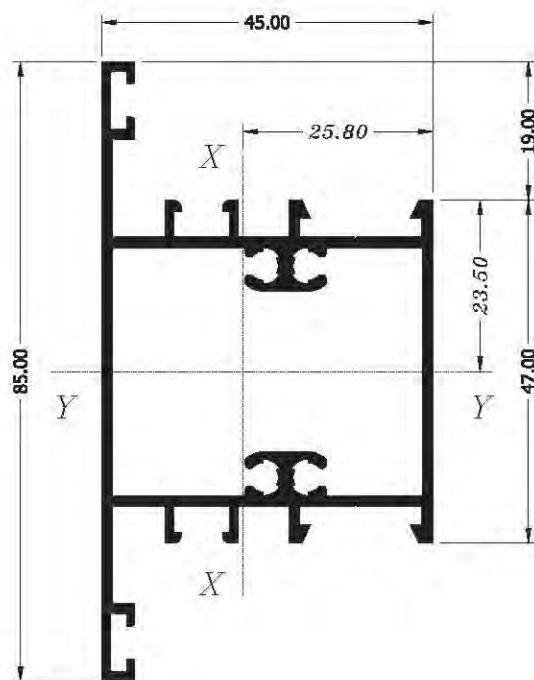


1 045 4810
1.086 Kg./ml.

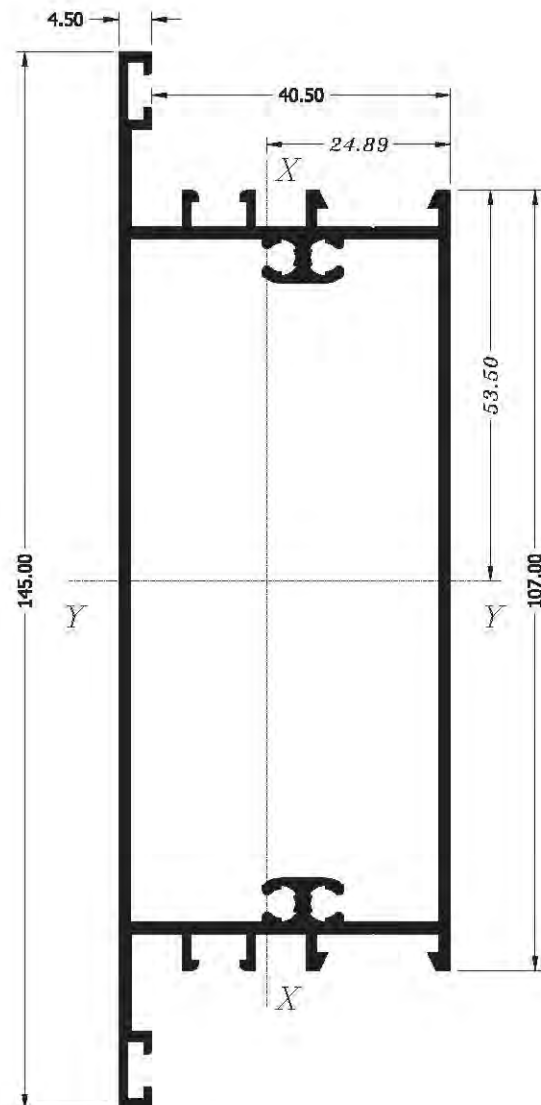
Profile No.	1 045 4810
Profile Old No.	SH 4539



1 045 5010
0.926 Kg./ml.

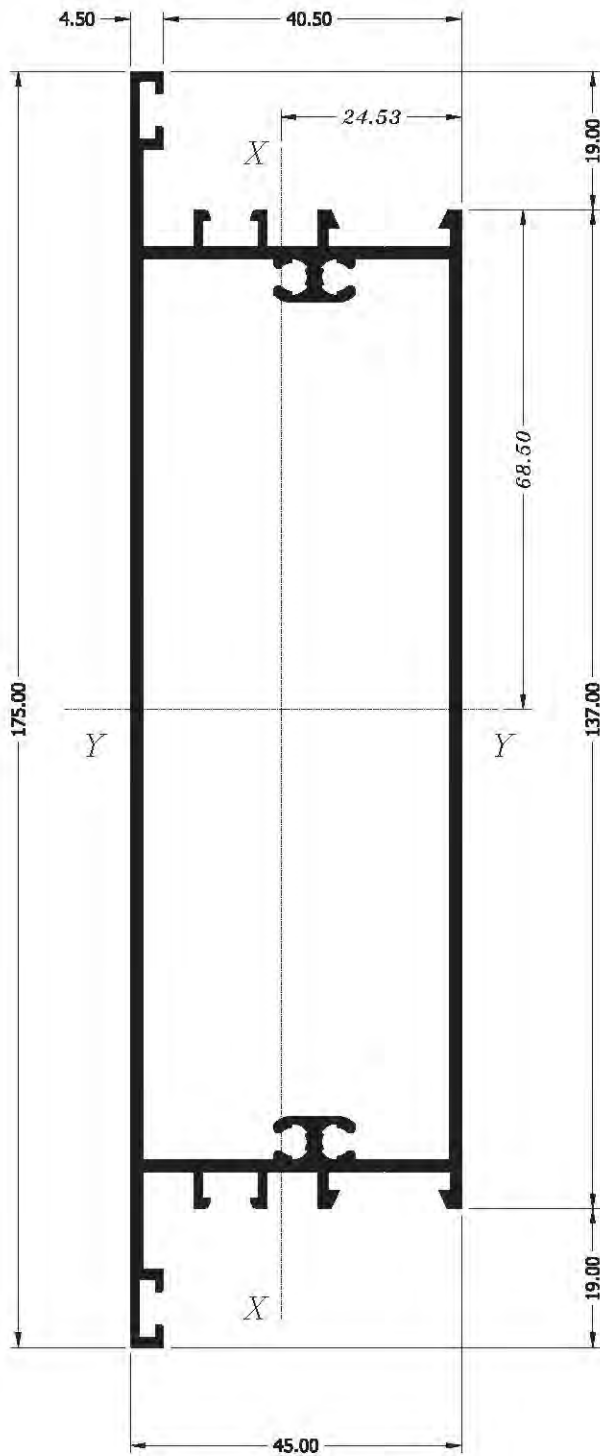


1 045 5120
1.242 Kg./ml.

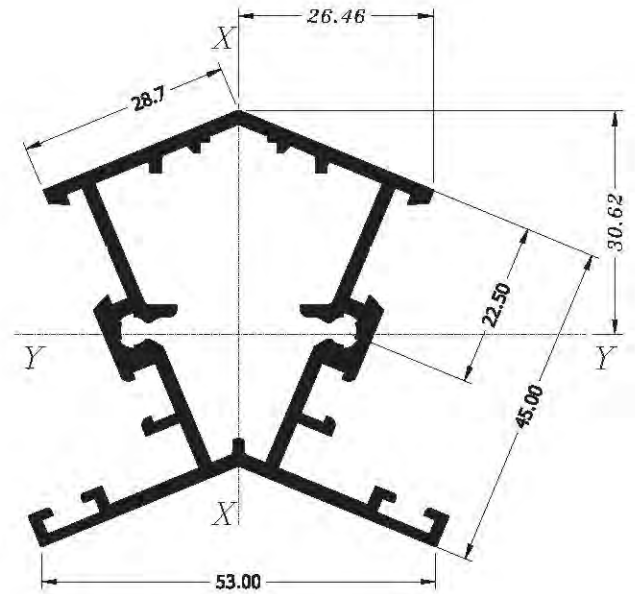


1 045 5130
1.890 Kg./ml.

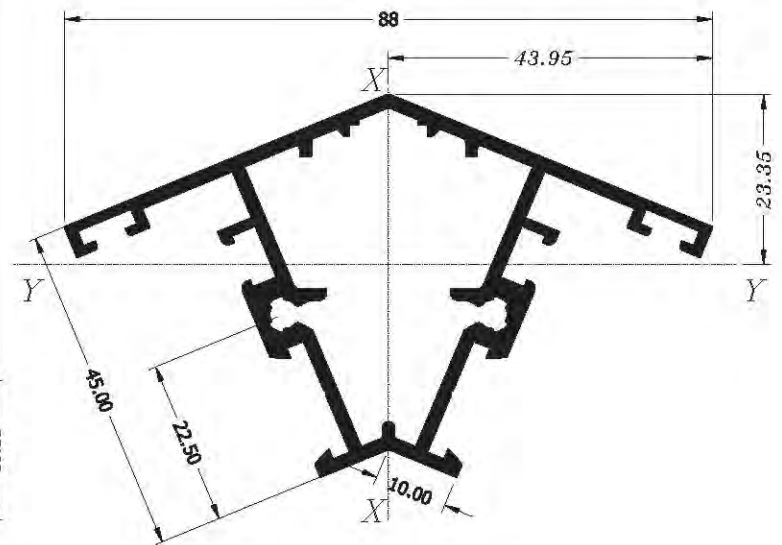
Profile No.	1 045 5010	1 045 5120	1 045 5130
Profile Old No.	SH 4551	SH 4552	SH 4553



1 045 5140
2.163 Kg./ml.

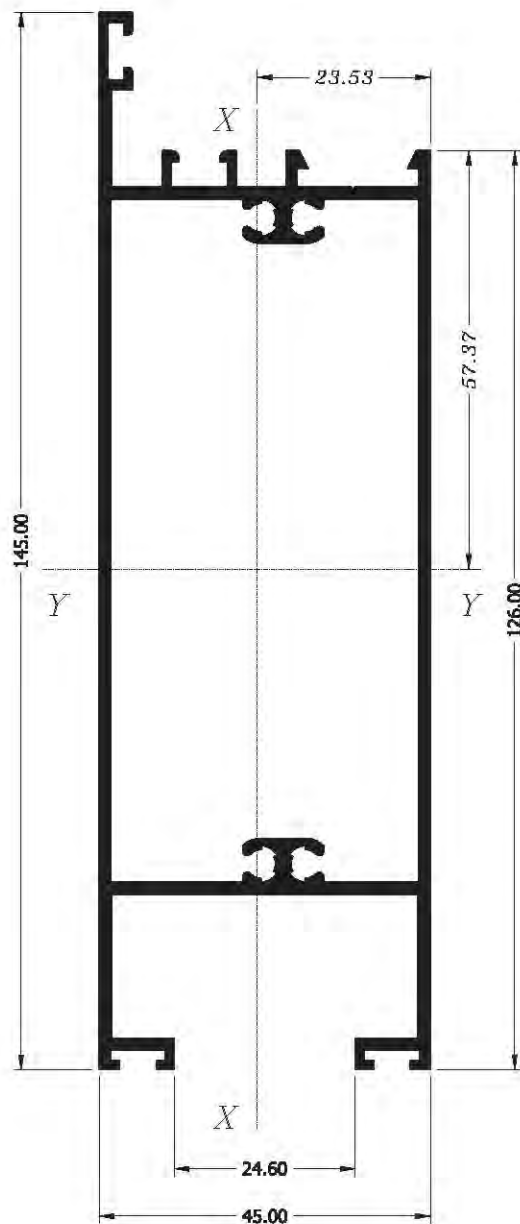


1 045 5190
1.204 Kg./ml.

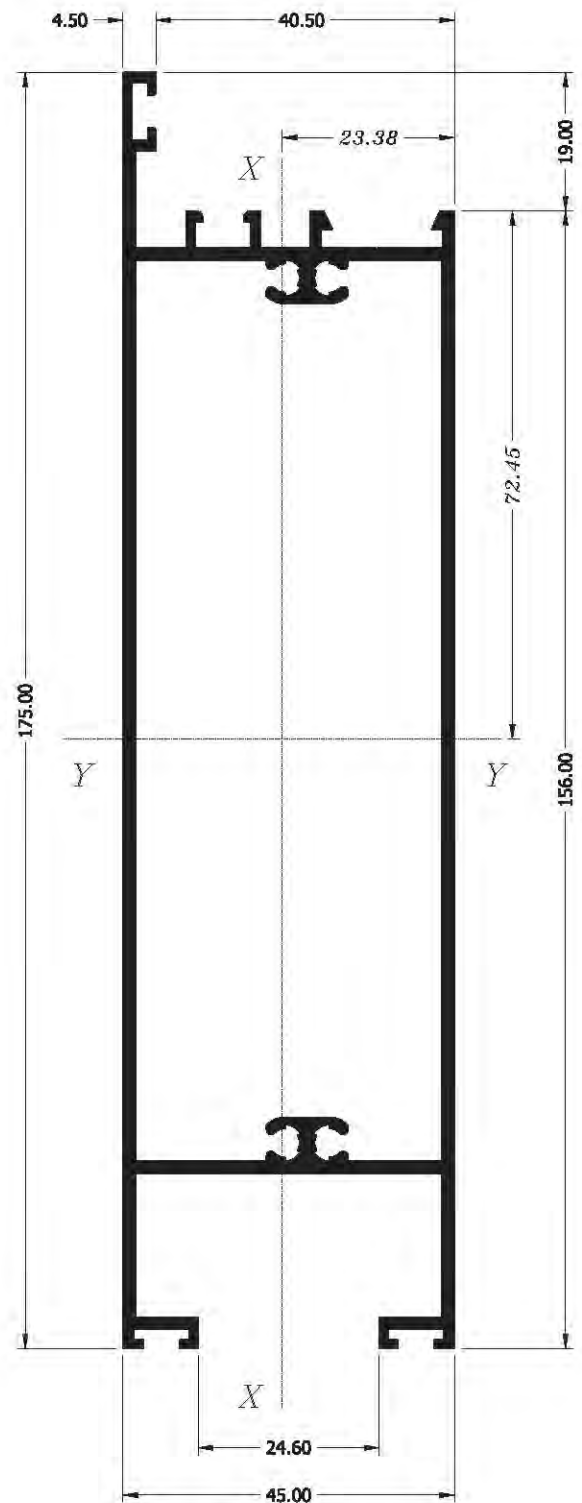


1 045 5170
1.204 Kg./ml.

Profile No.	1 045 5140	1 045 5190	1 045 5170
Profile Old No.	SH 4554	SH 4586	SH 4585

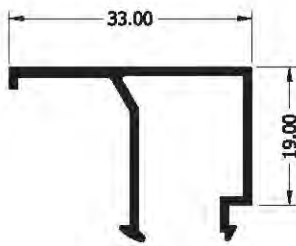


1 045 5330
1.987 Kg./ml.



1 045 5340
2.260 Kg./ml.

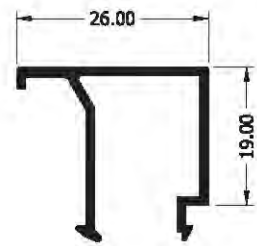
Profile No.	1 045 5330	1 045 5340
Profile Old No.	SH 4558	SH 4559



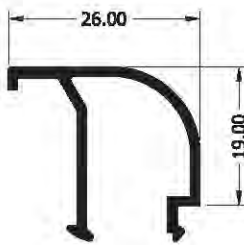
1 045 6110
0.289 Kg./ml.



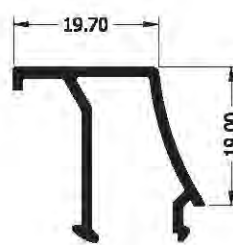
1 045 6130
0.270 Kg./ml.



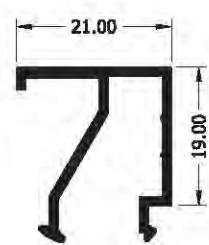
1 045 6140
0.262 Kg./ml.



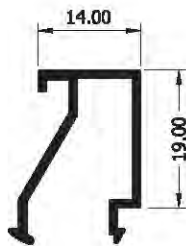
1 045 6142
0.246 Kg./ml.



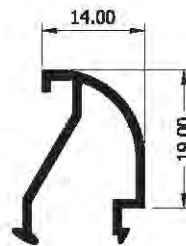
1 045 6145
0.240 Kg./ml.



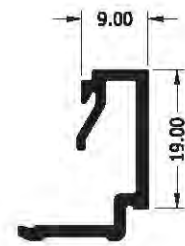
1 045 6160
0.251 Kg./ml.



1 045 6180
0.211 Kg./ml.



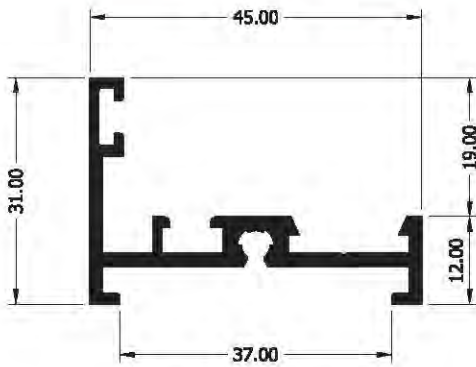
1 045 6182
0.206 Kg./ml.



1 045 6290
0.227 Kg./ml.

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

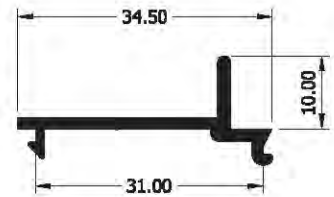
Profile No.	1 045 6180	1 045 6182	1 045 6290
Profile Old No.	SH 4566	SH 4567	SH 4569



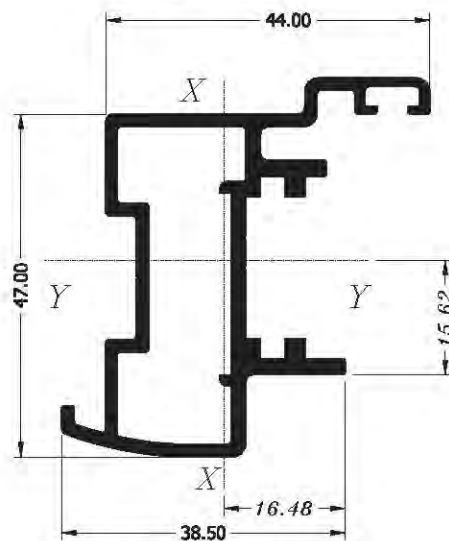
1 045 9110
0.540 Kg./ml.



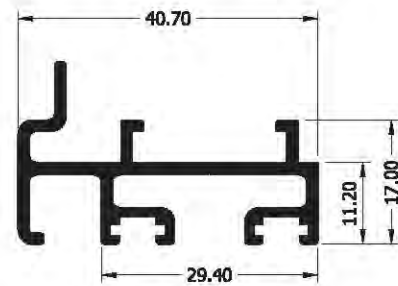
1 045 9120
0.356 Kg./ml.



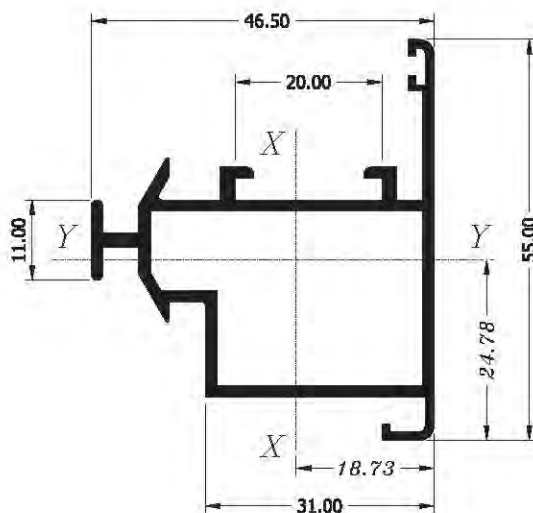
1 045 9210
0.221 Kg./ml.



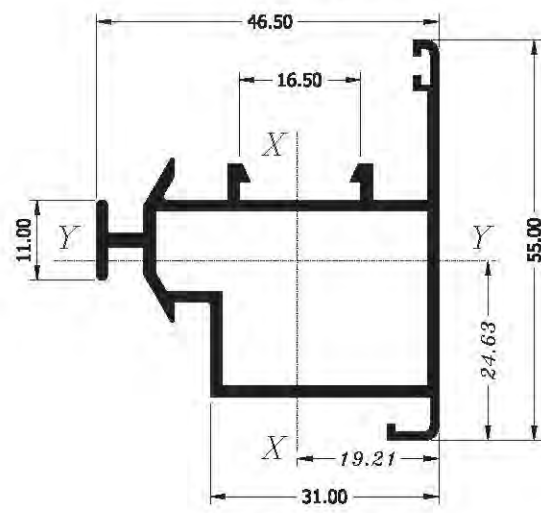
1 045 9240
1.031 Kg./ml.



1 045 9440
0.541 Kg./ml.

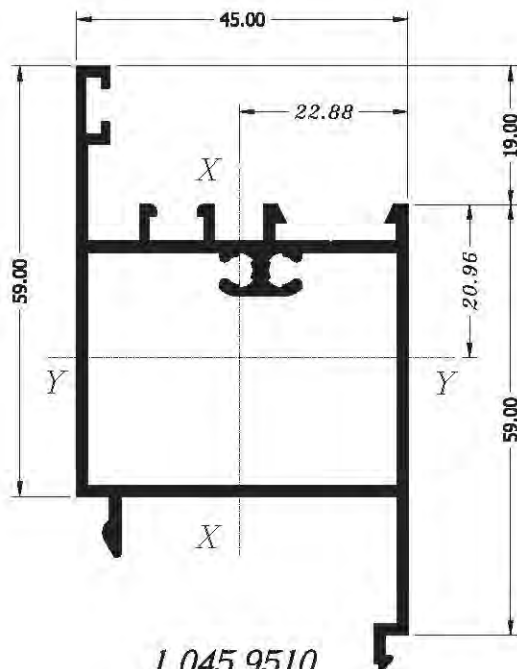


1 045 9410
0.824 Kg./ml.

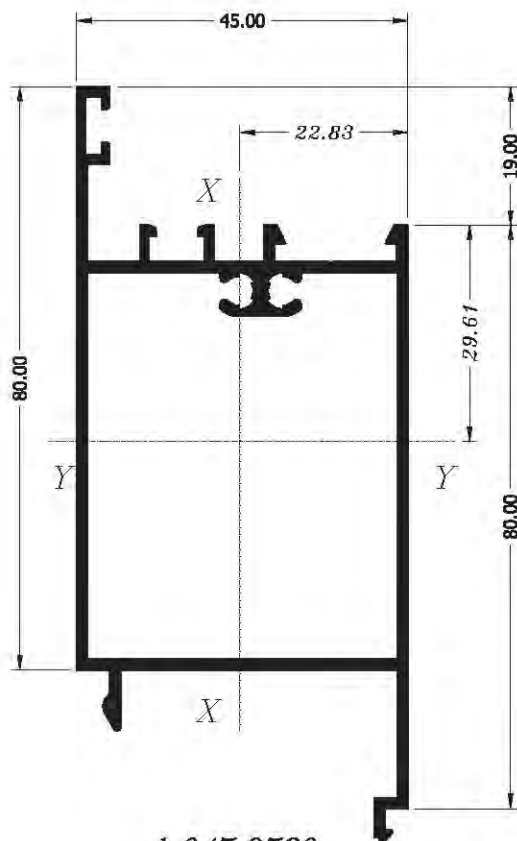


1 045 9420
0.807 Kg./ml.

Profile No.	1 045 9110	1 045 9120	1 045 9210	1 045 9410	1 045 9420	1 045 9430
Profile Old No.	SH 4574	SH 4577	SH 4579	SH 4544	SH 4545	SH 4583

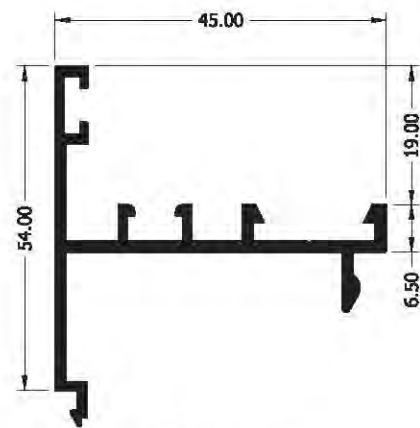


1 045 9510
1.072 Kg./ml.

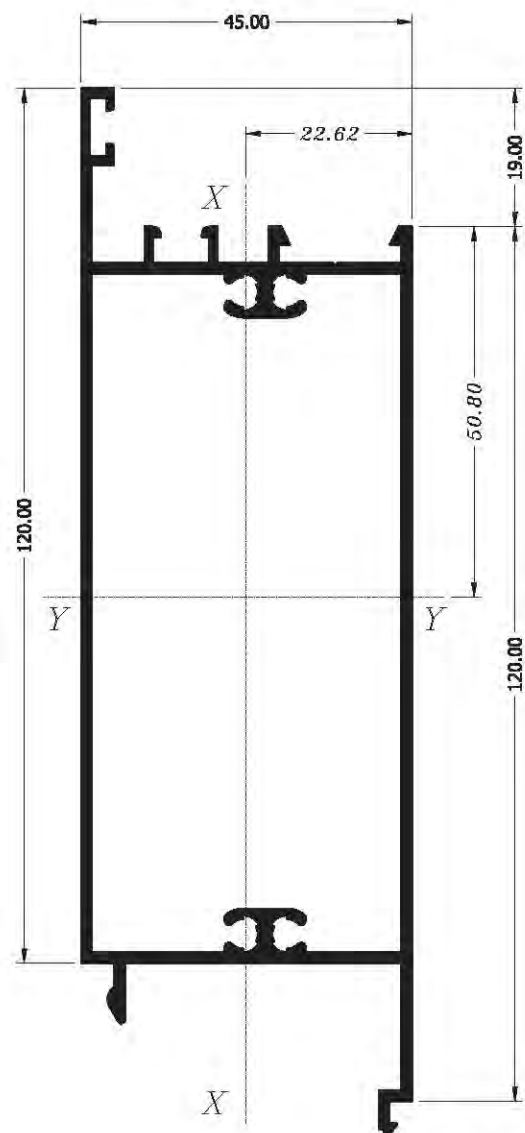


1 045 9520
1.242 Kg./ml.

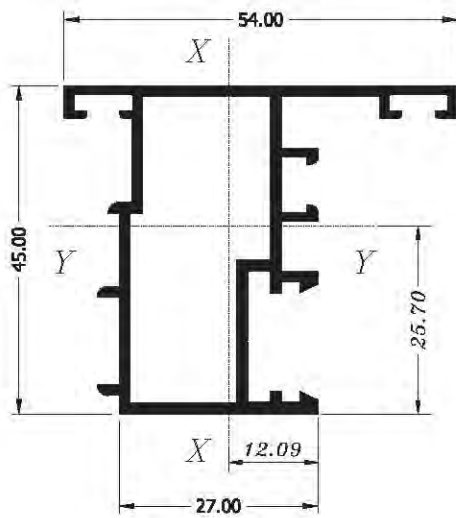
Profile No.	1 045 9520
Profile Old No.	SH 4573



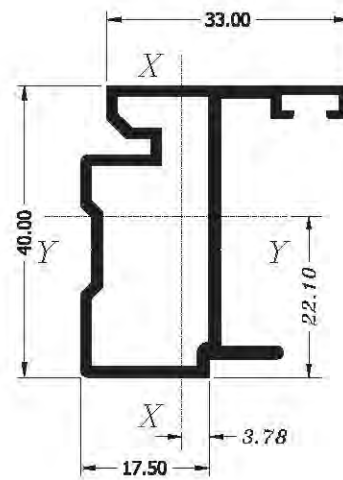
1 045 9430
0.540 Kg./ml.



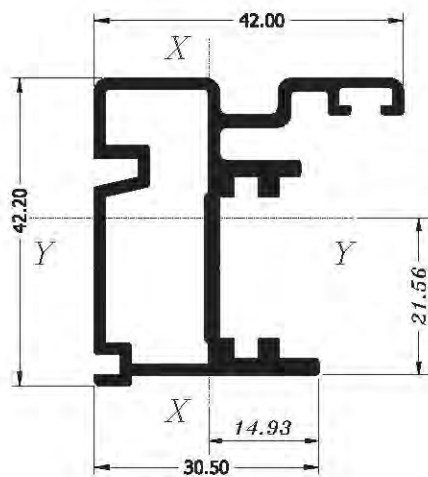
1 045 9540
1.657 Kg./ml.



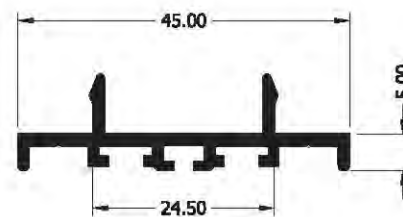
1 045 9610
0.853 Kg./ml.



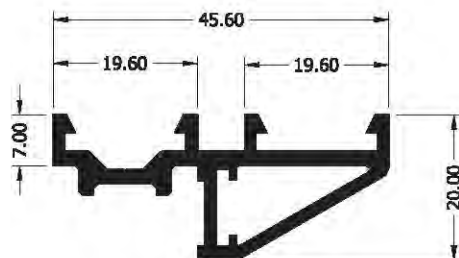
1 045 9620
0.670 Kg./ml.



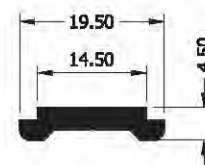
1 045 9630
0.902 Kg./ml.



1 045 9570
0.359 Kg./ml.



1 045 9810
0.591 Kg./ml.

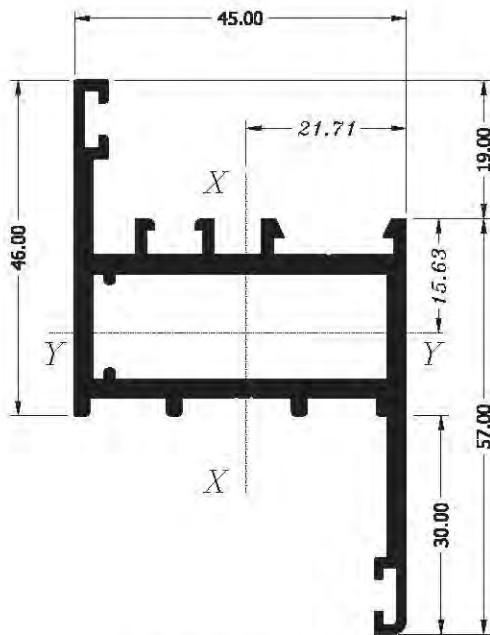


1 045 9910
0.146 Kg./ml.

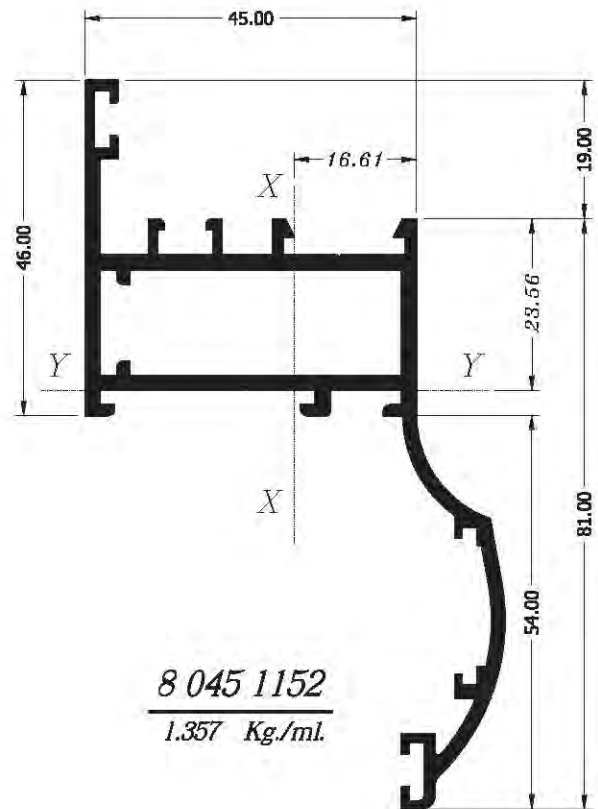
Profile No.	1 045 9570	1 045 9610	1 045 9620	1 045 9630	1 045 9240	1 045 9810	1 045 9910
Profile Old No.	SH 4581	SH 4572	SH 4578	SH 4588	SH 4589	SH 4582	SH 4571



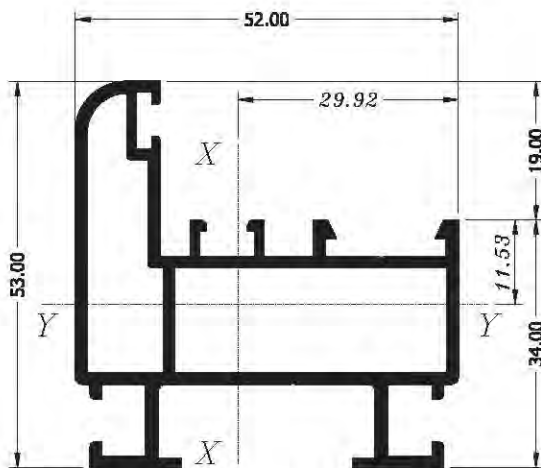
Those profiles are specially produced for rolling machines.



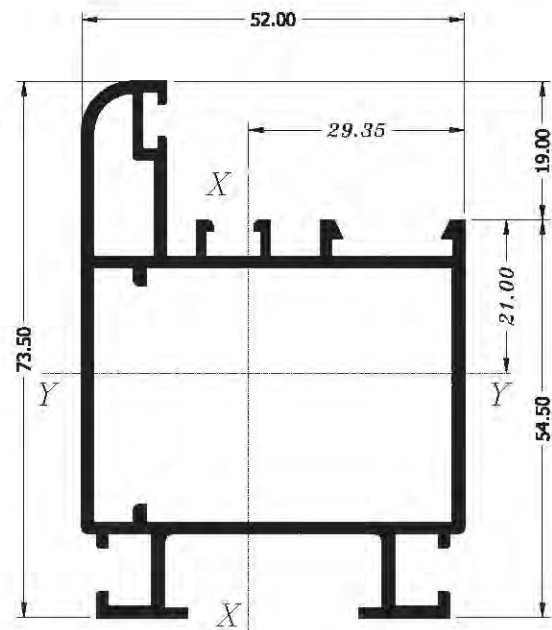
8 045 1130
1.339 Kg./ml.



8 045 1152
1.357 Kg./ml.



8 045 1420
1.128 Kg./ml.

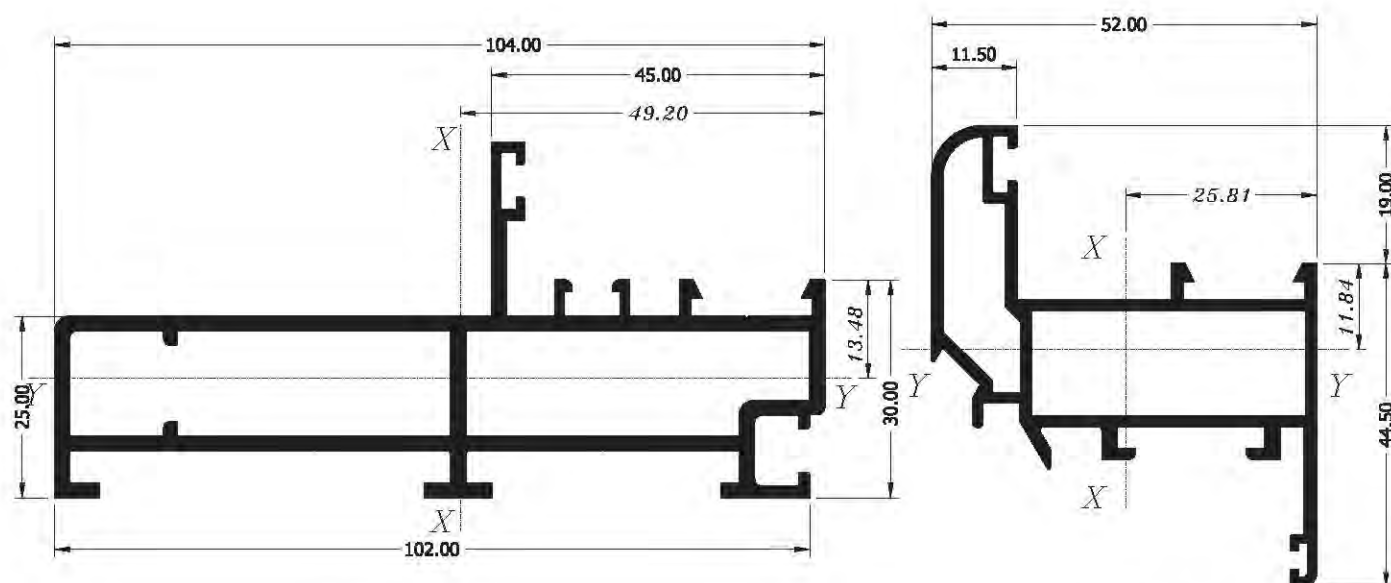


8 045 1520
1.316 Kg./ml.

Profile No.	8 045 1130	8 045 1152	8 045 1420	8 045 1520
Profile Old No.	SH 4511.1	SH 4512.2.1	SH 4514.1	SH 4518.1



Those profiles are specially produced for rolling machines.

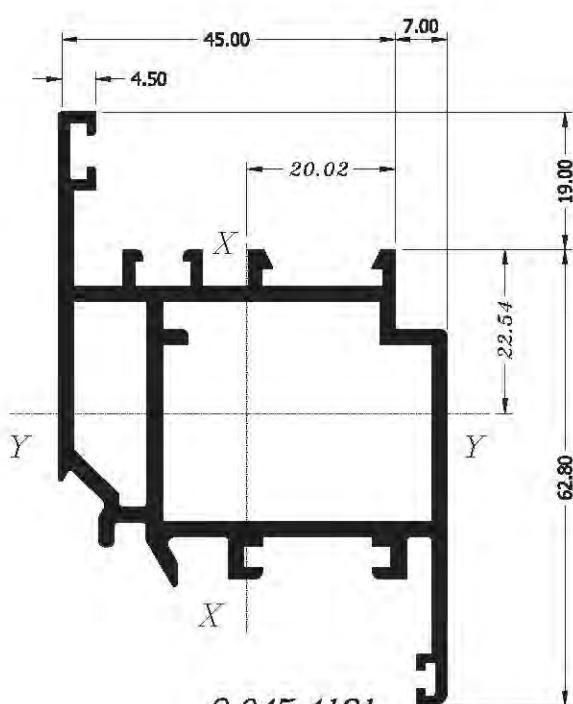


8 045 2101

1.833 Kg./ml.

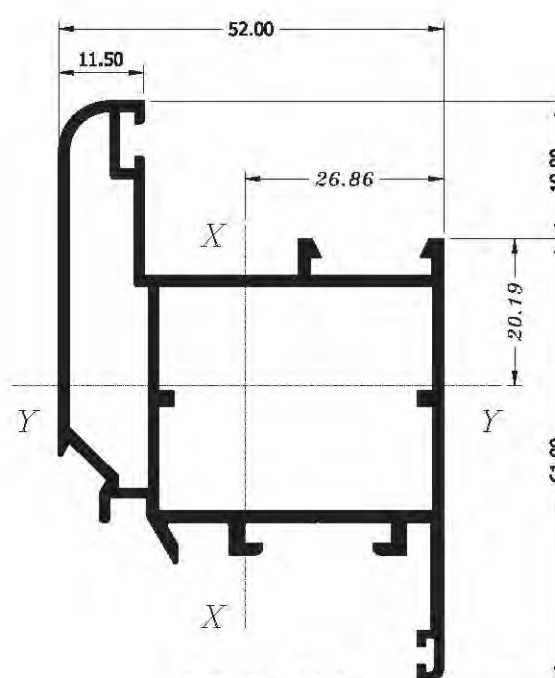
8 045 4112

1.050 Kg./ml.



8 045 4121

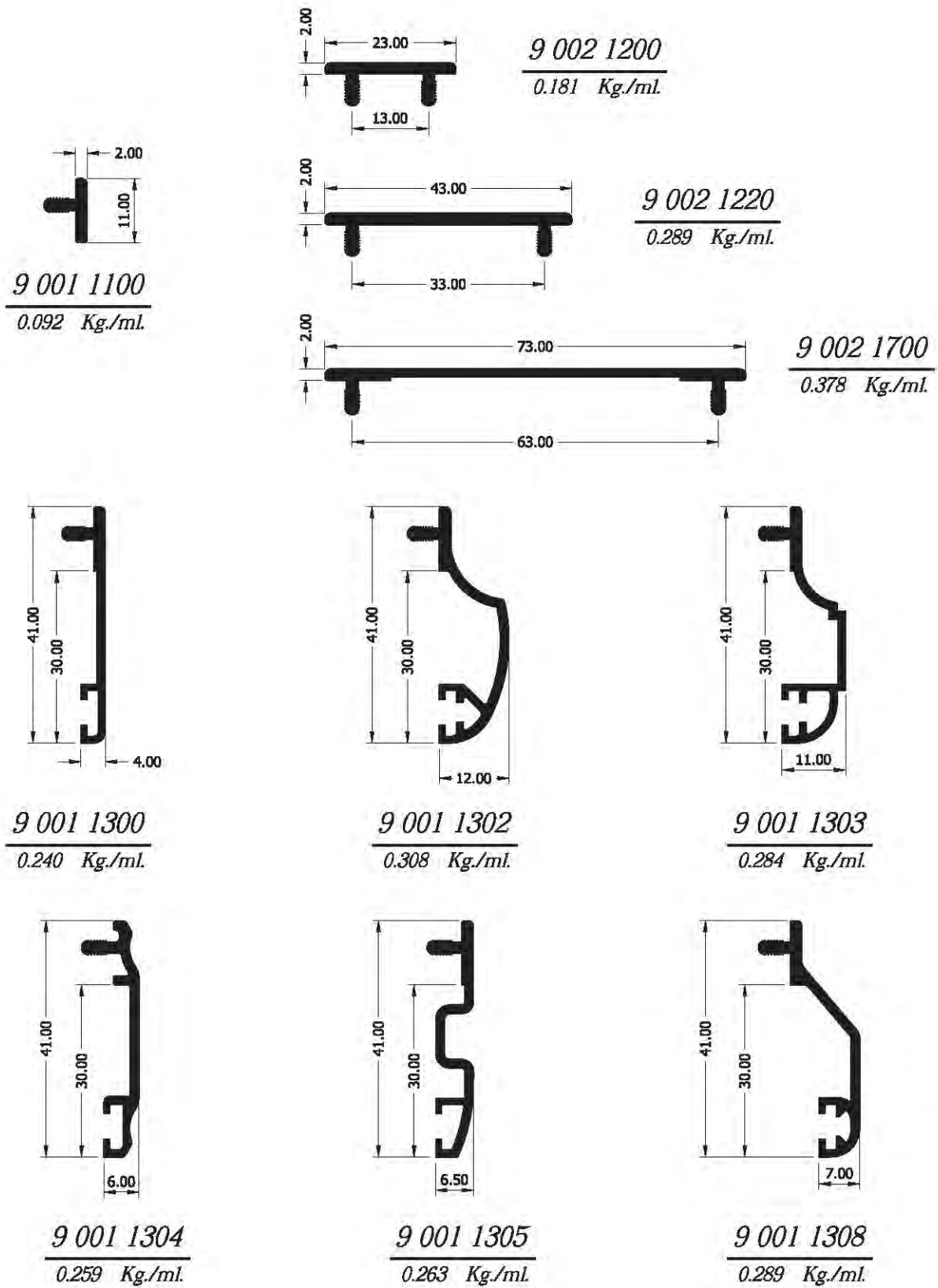
1.607 Kg./ml.



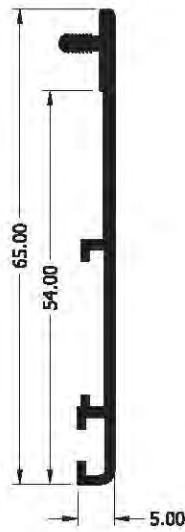
8 045 4122

1.231 Kg./ml.

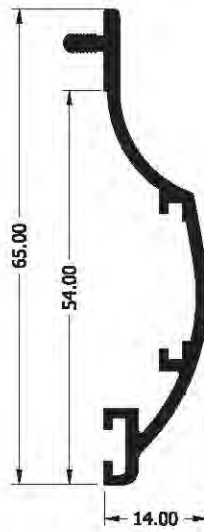
Profile No.	8 045 4112	8 045 4121	8 045 4122
Profile Old No.	SH 4523	SH 4549	SH 4528



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



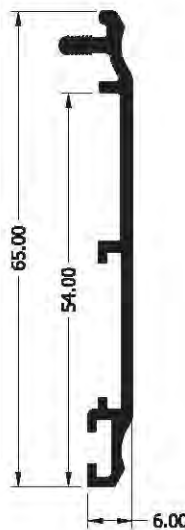
9 001 1500
0.348 Kg./ml.



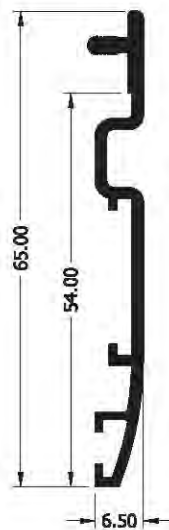
9 001 1502
0.424 Kg./ml.



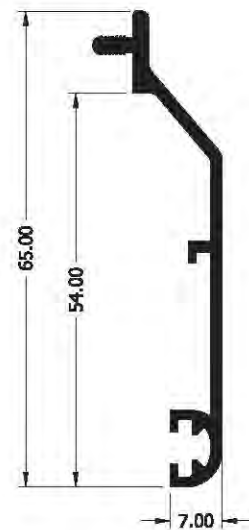
9 001 1503
0.403 Kg./ml.



9 001 1504
0.370 Kg./ml.

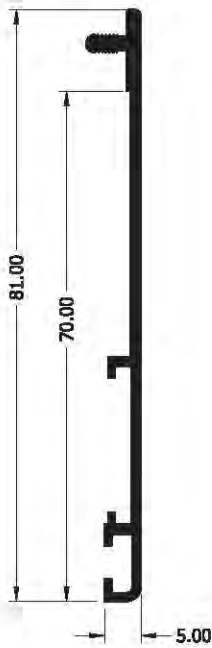


9 001 1505
0.383 Kg./ml.

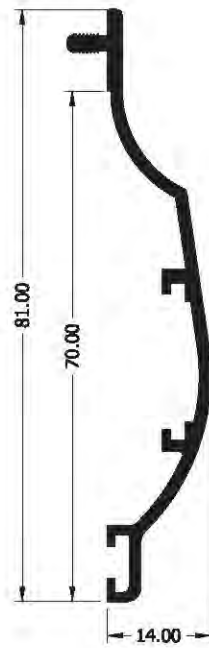


9 001 1508
0.402 Kg./ml.

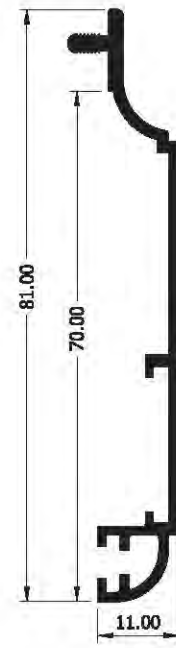
<i>Profile No.</i>	<i>9 001 1500</i>	<i>9 001 1502</i>	<i>9 001 1503</i>	<i>9 001 1504</i>	<i>9 001 1505</i>
<i>Profile Old No.</i>	<i>SH 8085</i>	<i>SH 8085.2</i>	<i>SH 8085.3</i>	<i>SH 8085.4</i>	<i>SH 8085.5</i>



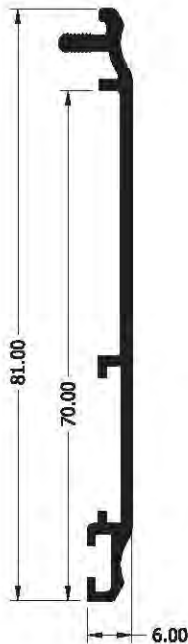
9 001 1700
0.418 Kg./ml.



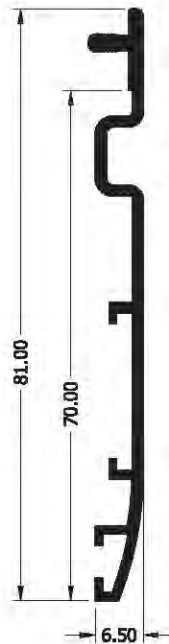
9 001 1702
0.473 Kg./ml.



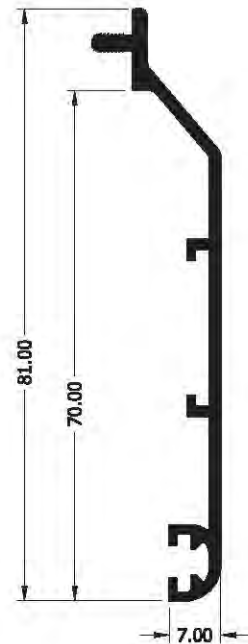
9 001 1703
0.403 Kg./ml.



9 001 1704
0.434 Kg./ml.

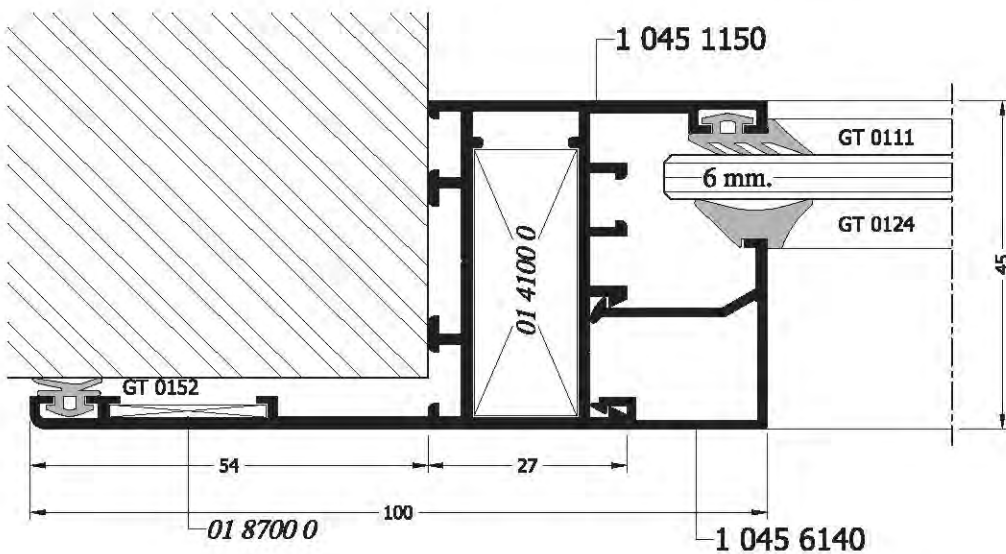
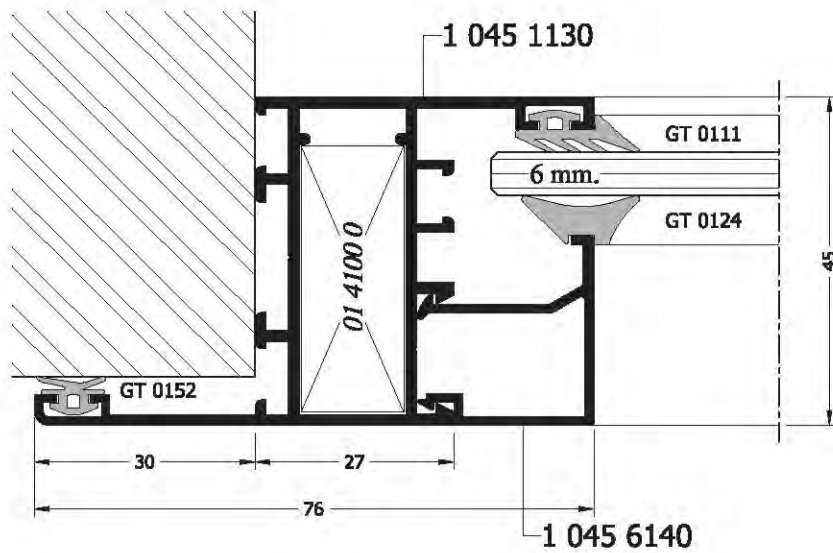
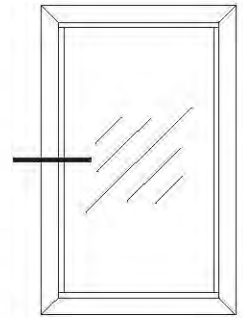
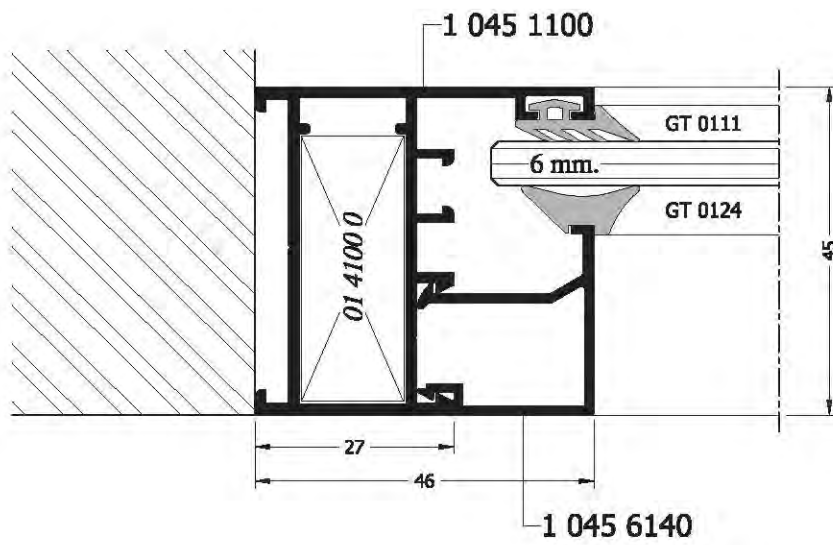


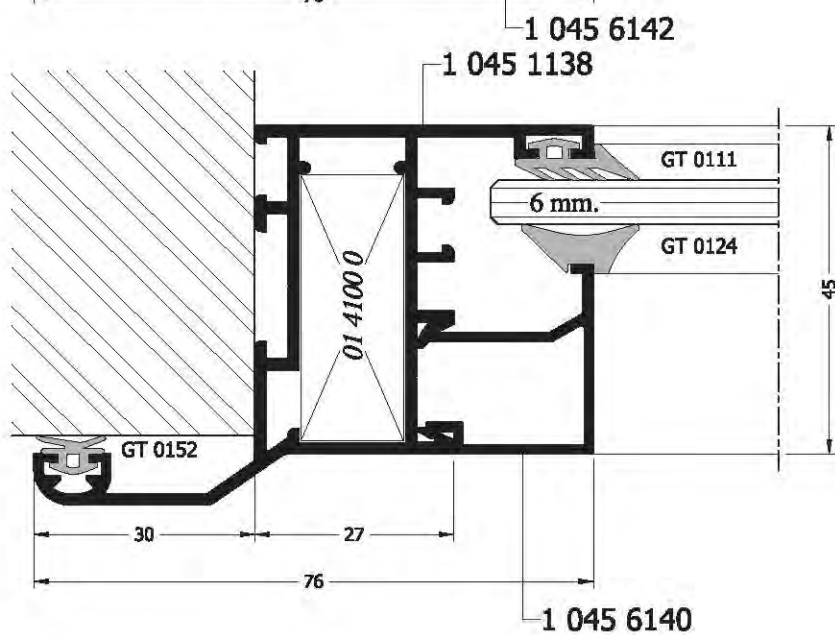
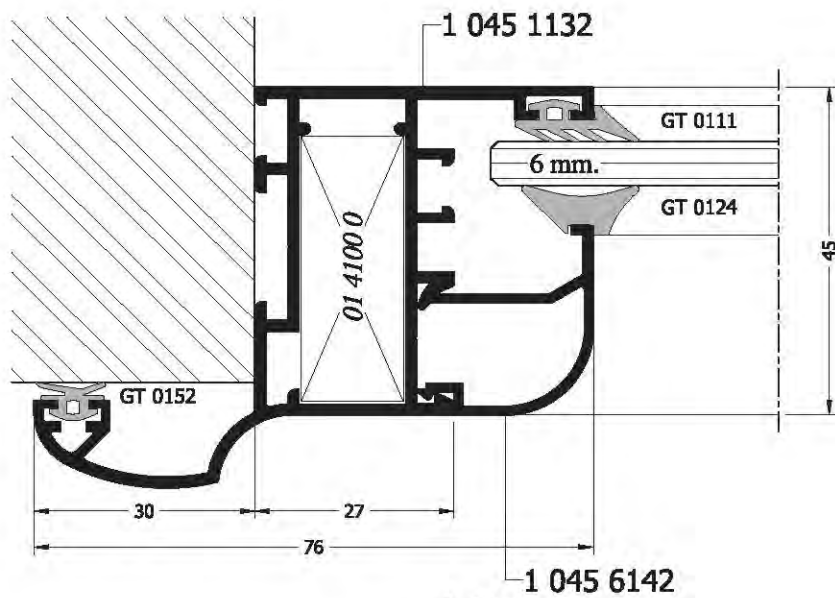
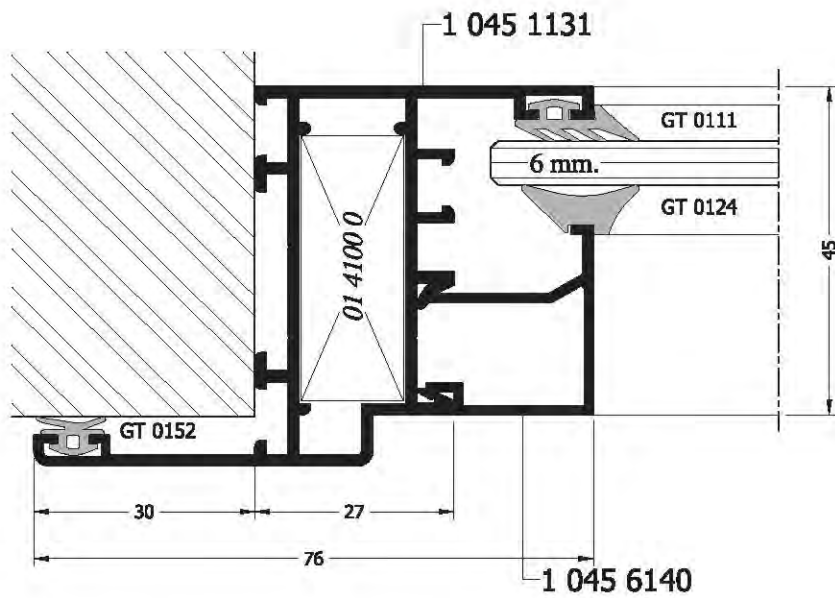
9 001 1705
0.457 Kg./ml.

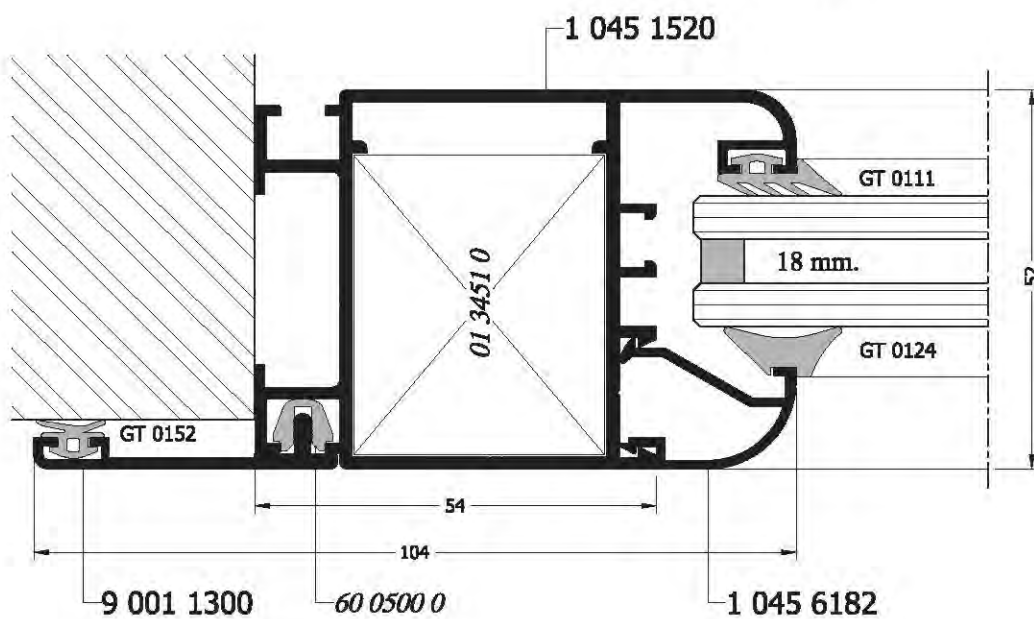
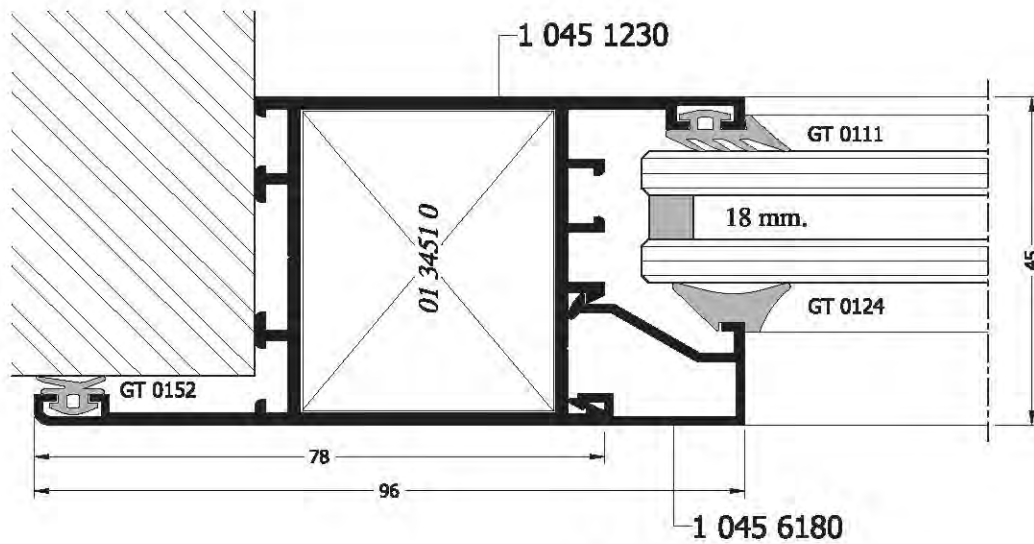
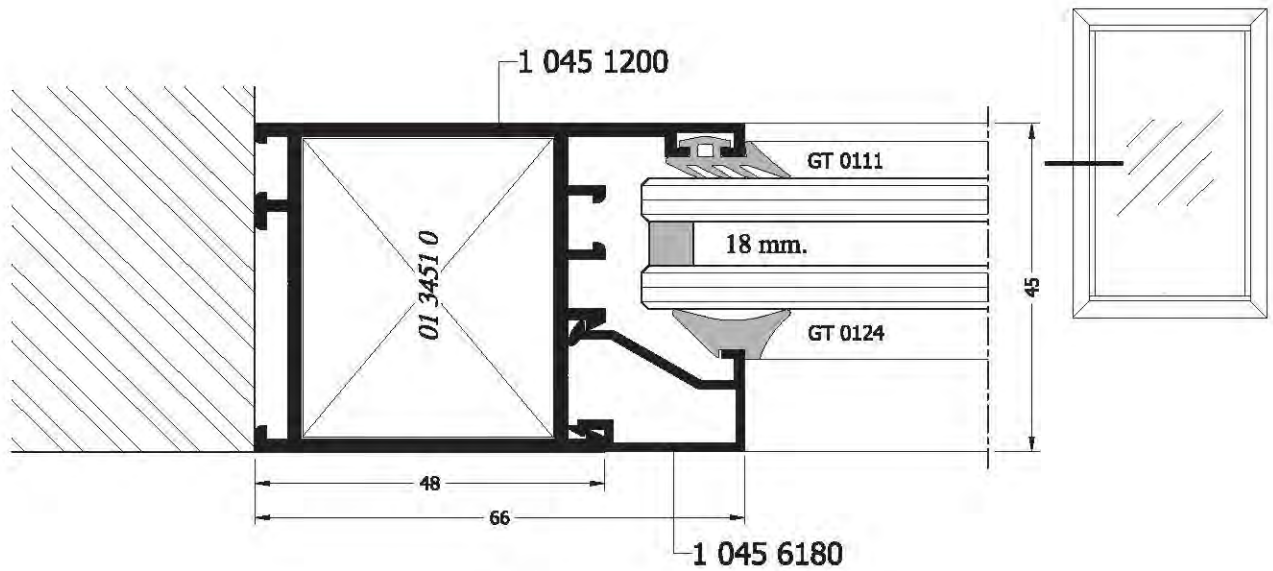


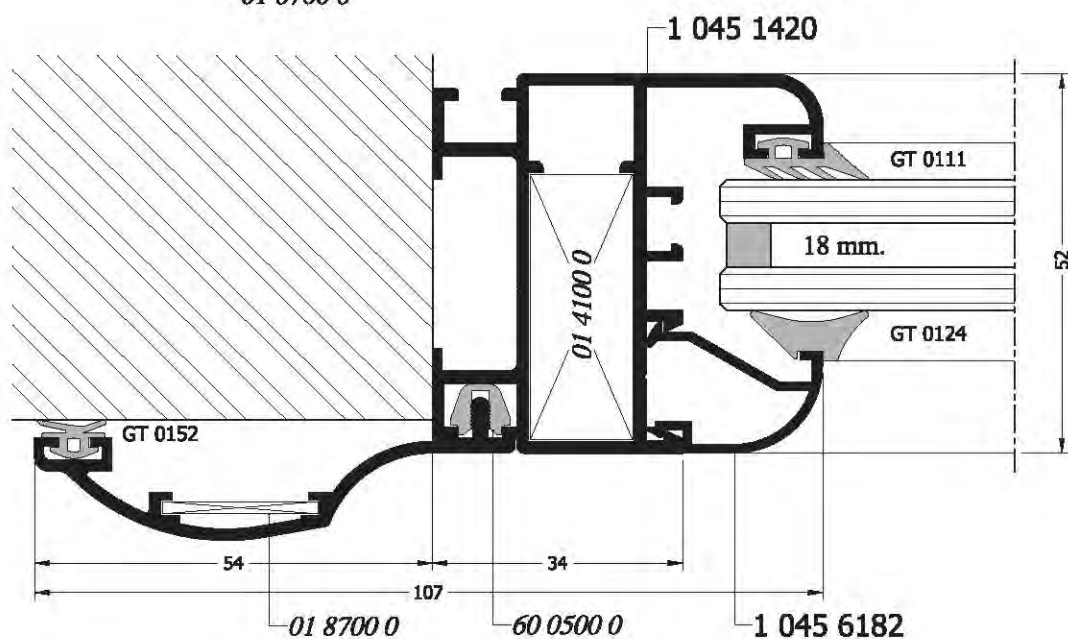
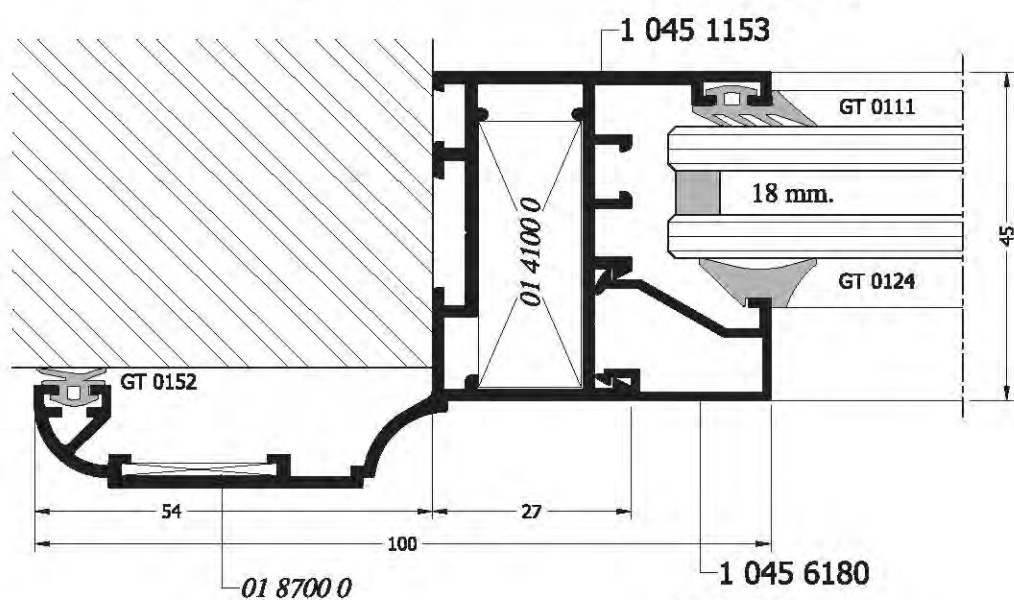
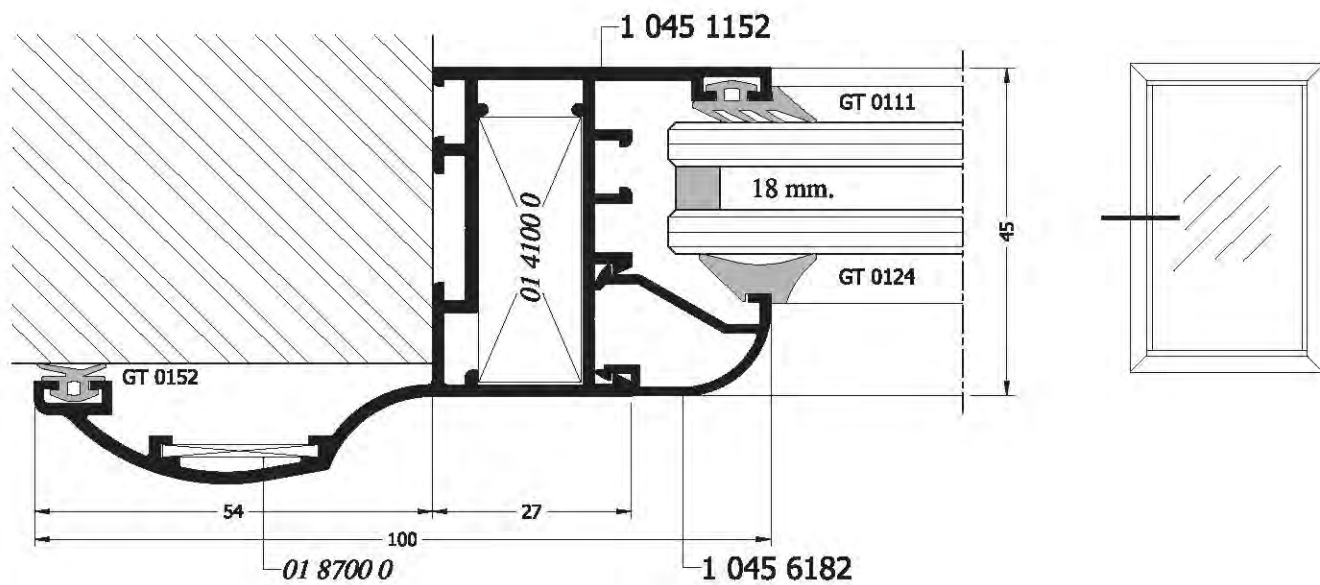
9 001 1708
0.482 Kg./ml.

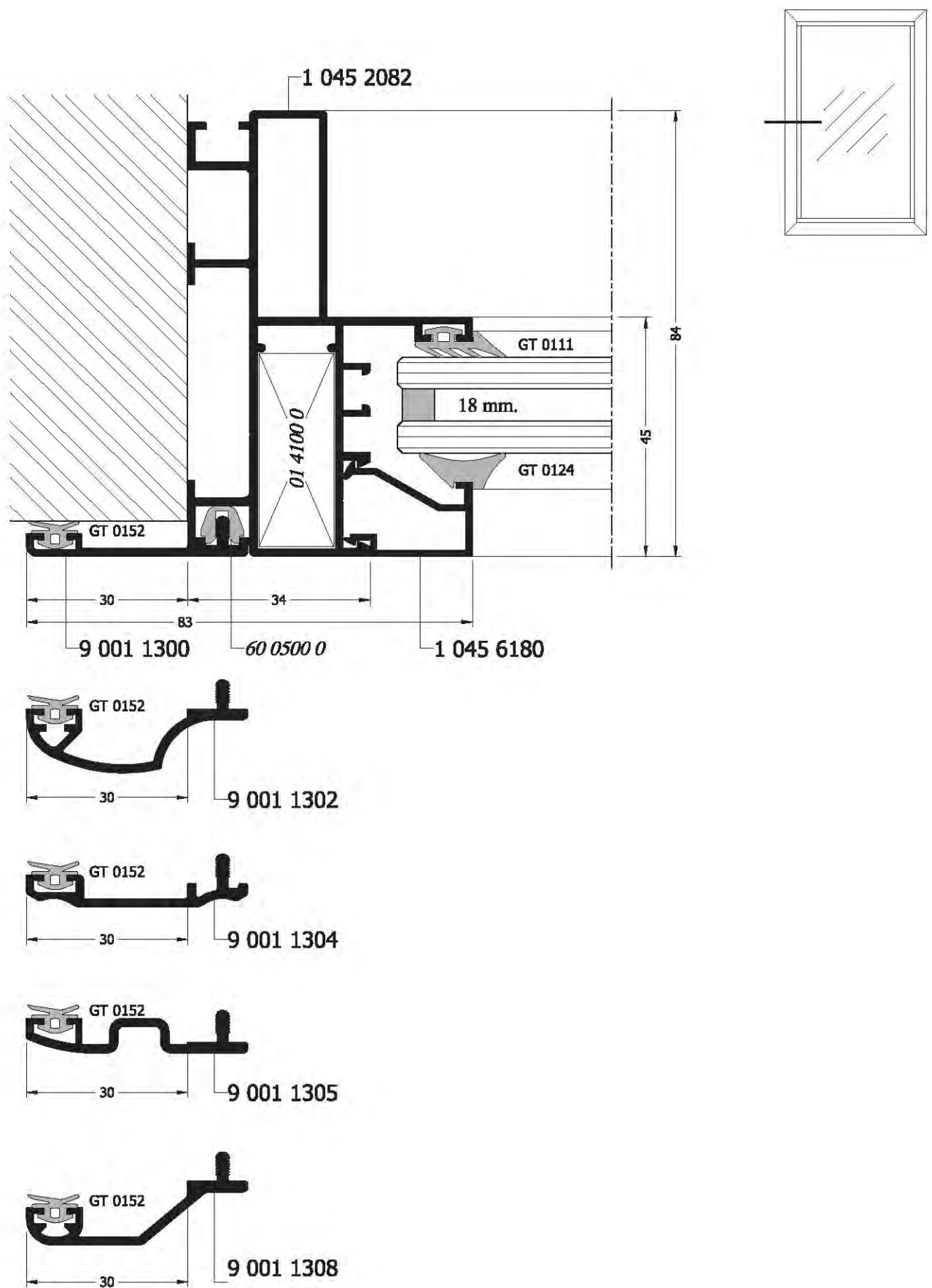
Profile No.	9 001 1700	9 001 1702	9 001 1703	9 001 1704	9 001 1705
Profile Old No.	SH 8086	SH 8086.2	SH 8086.3	SH 8086.4	SH 8086.5

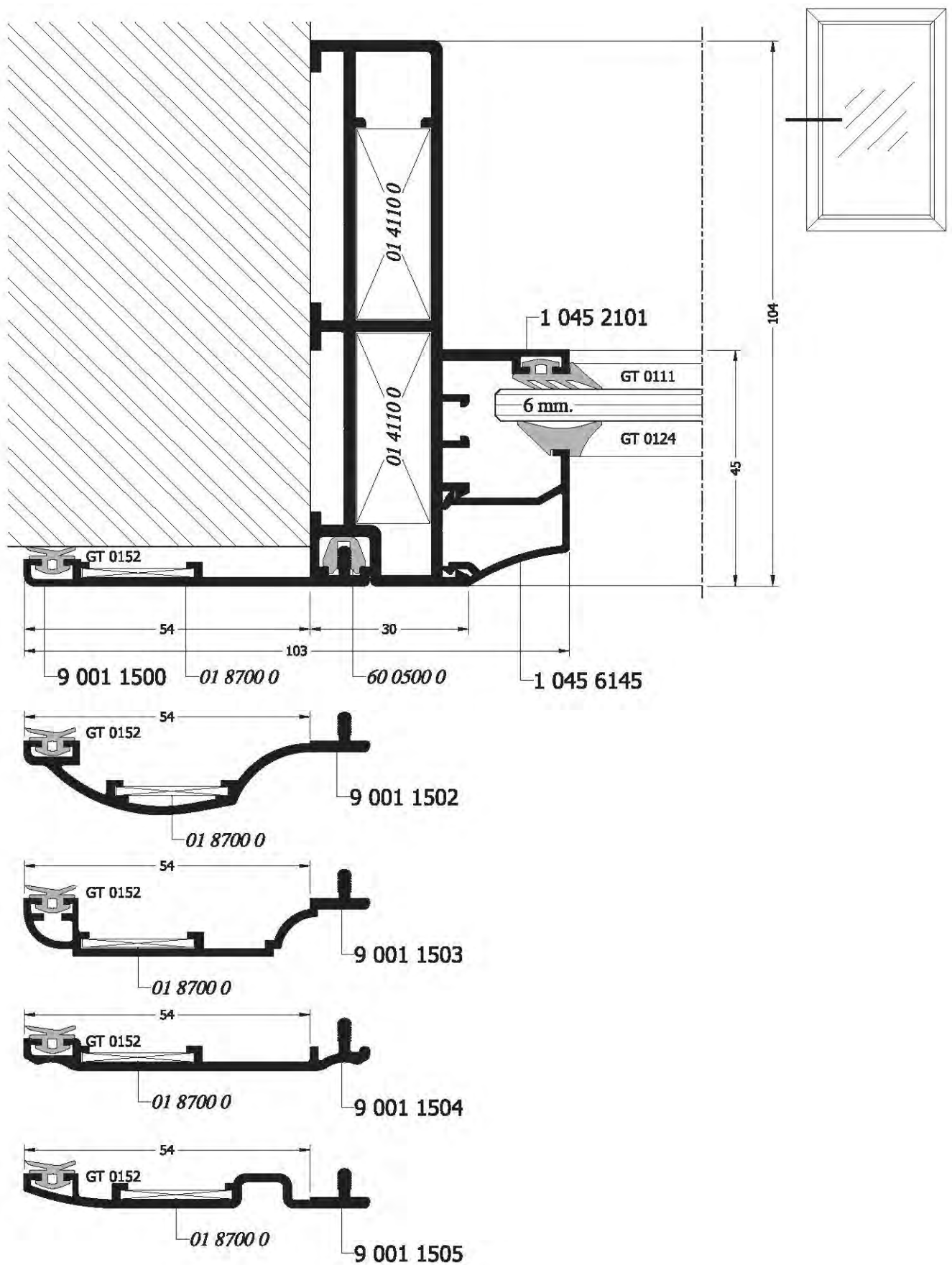


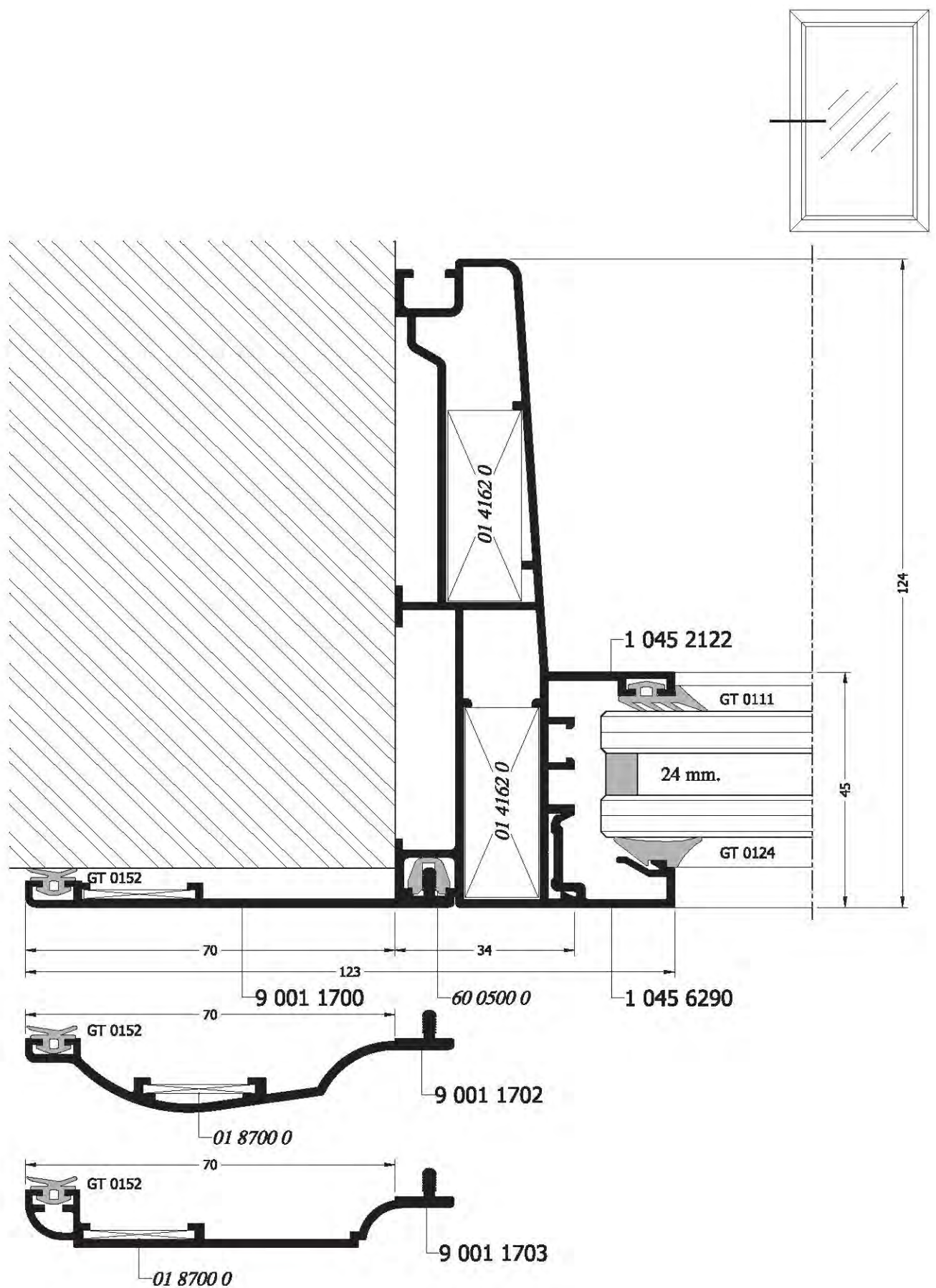


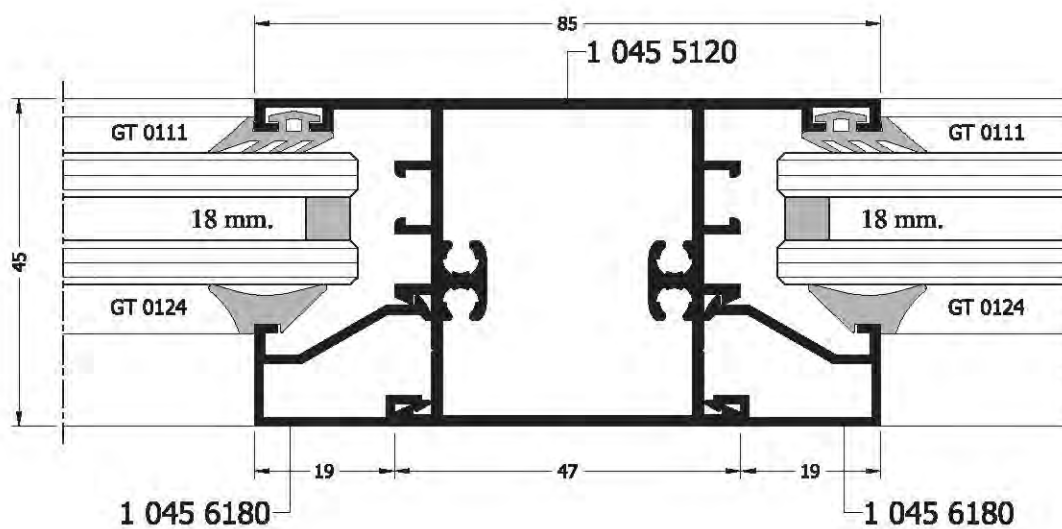
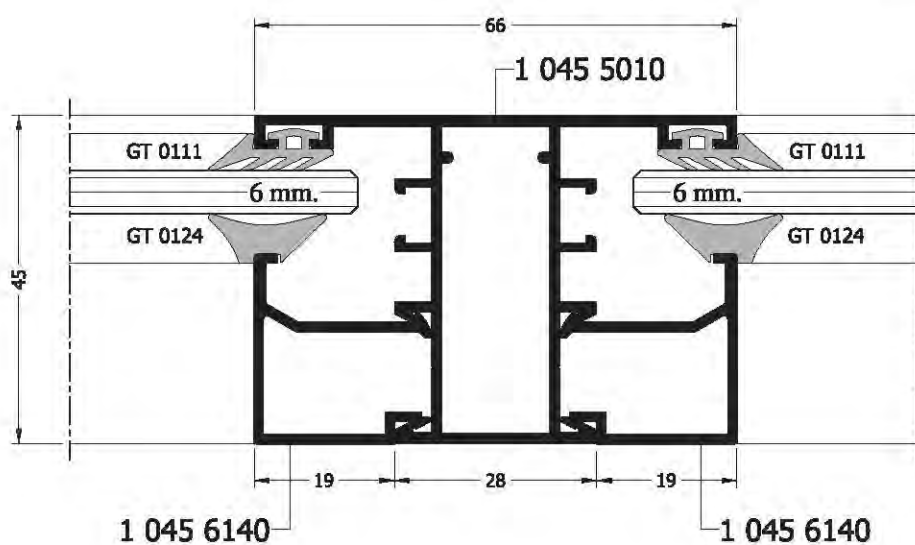
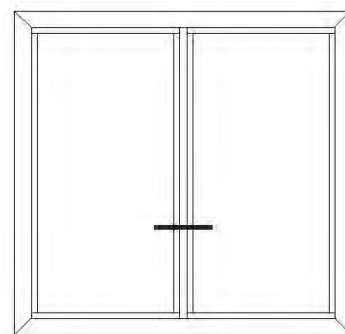


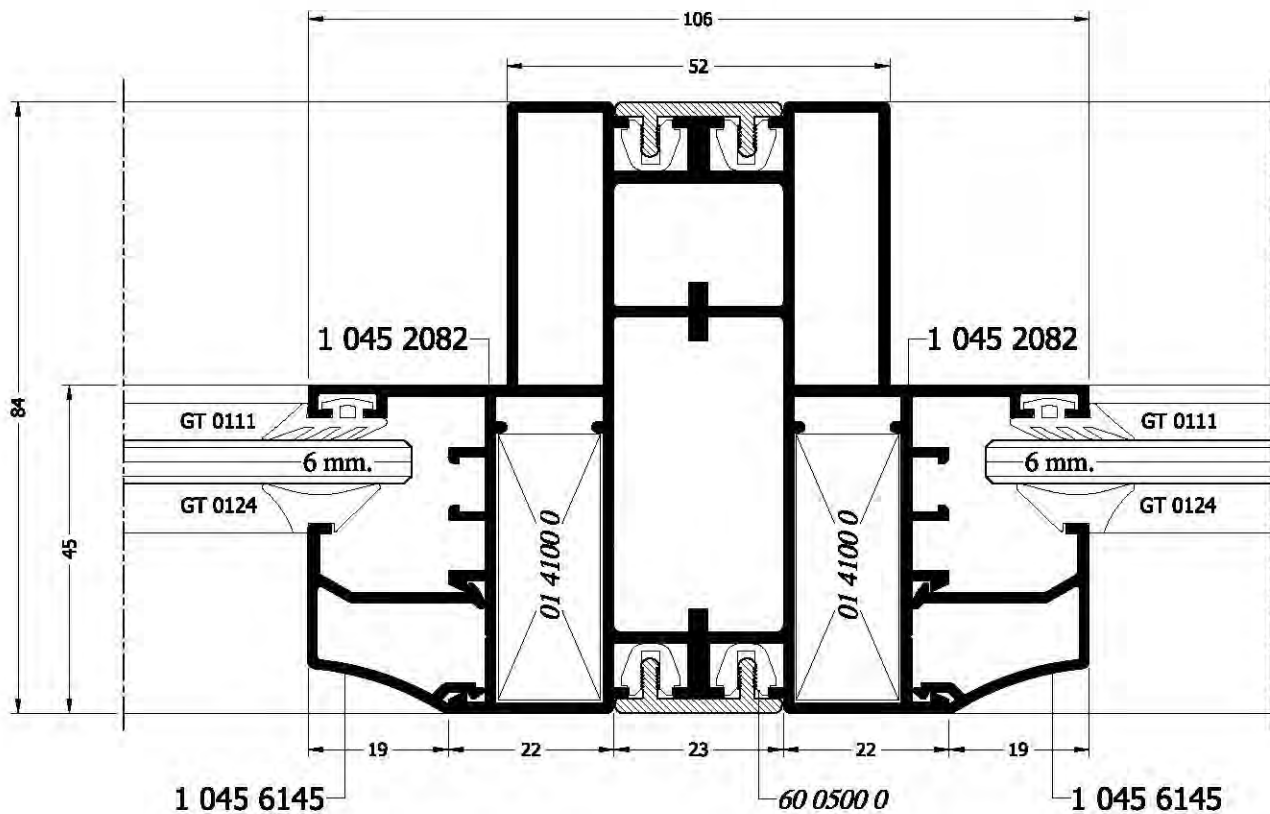
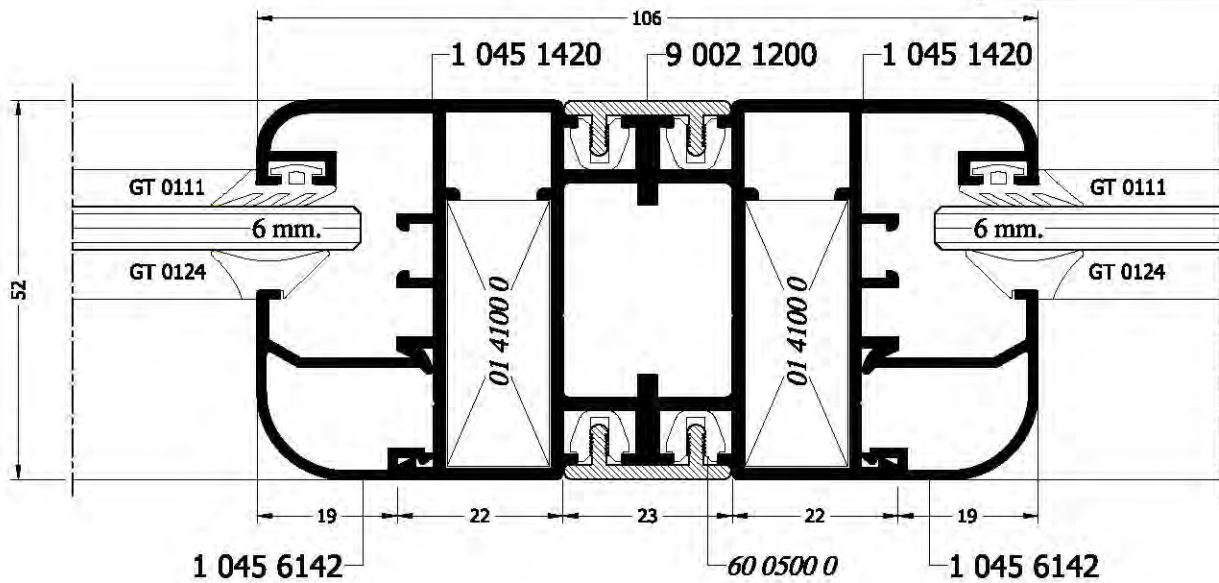
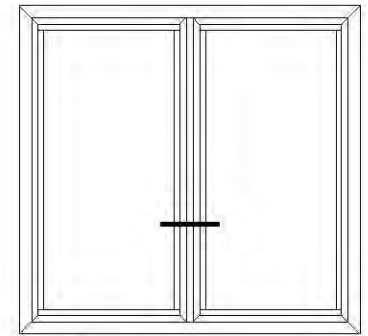


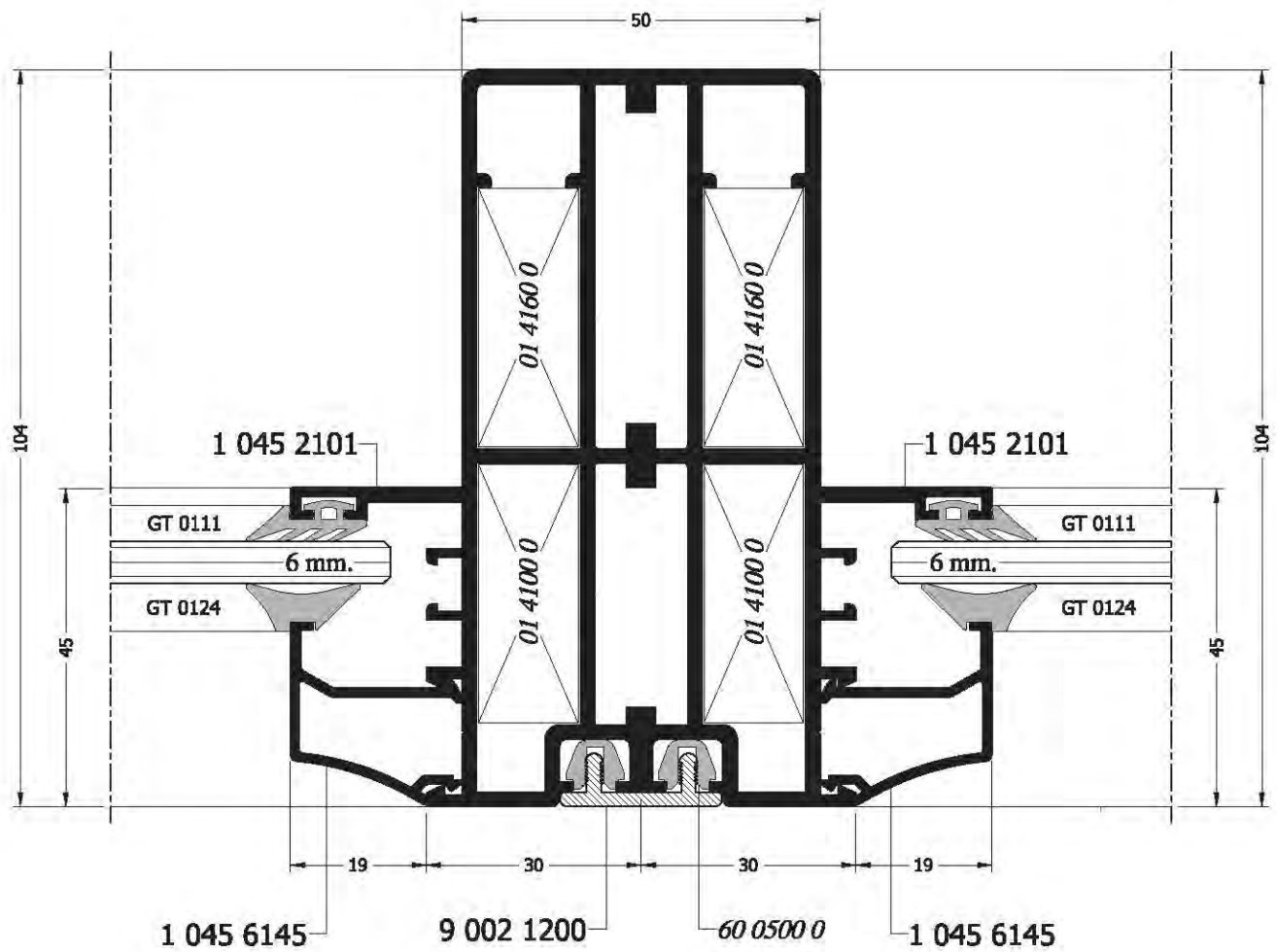
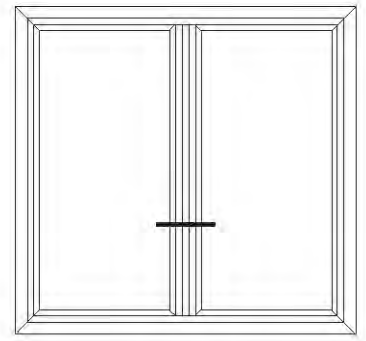


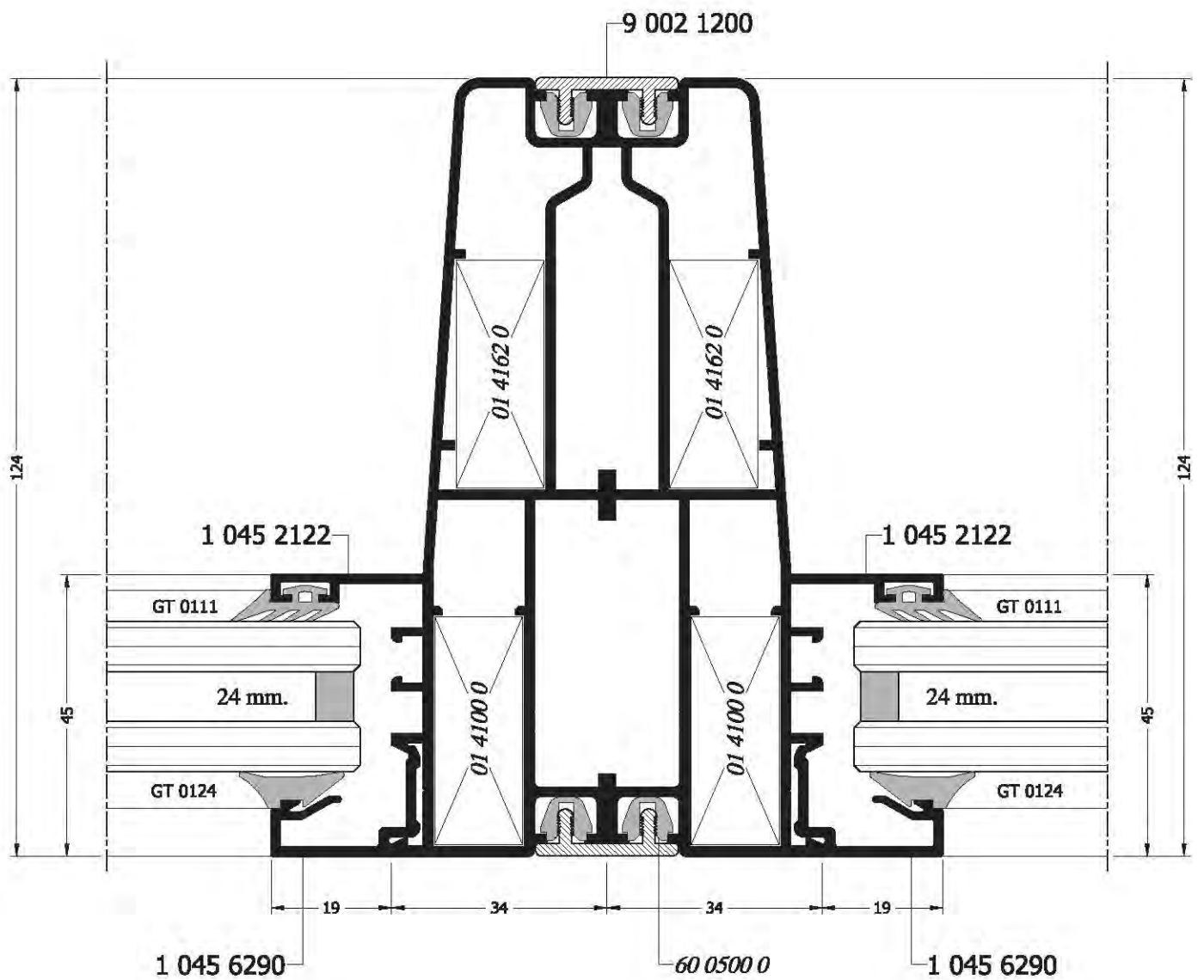


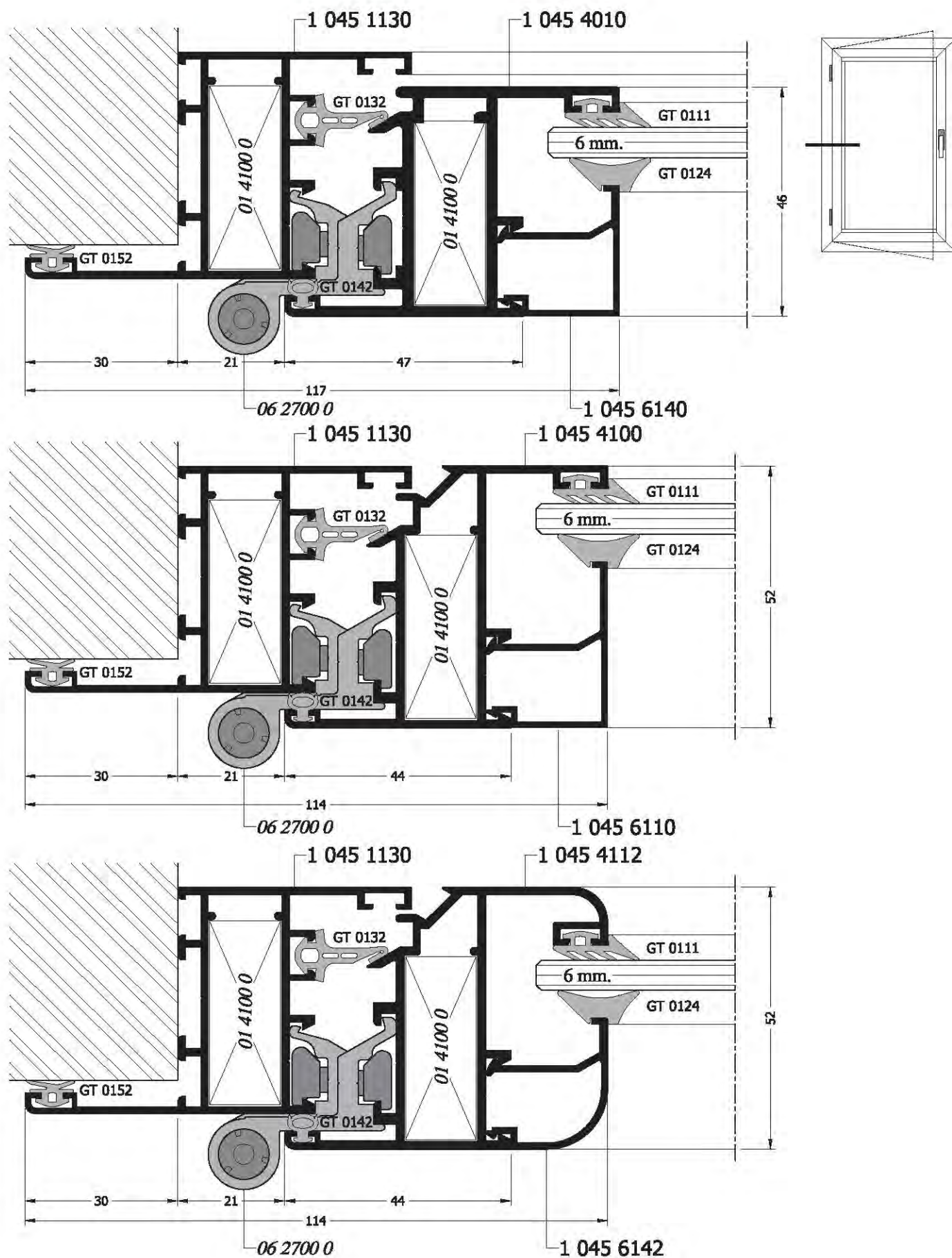


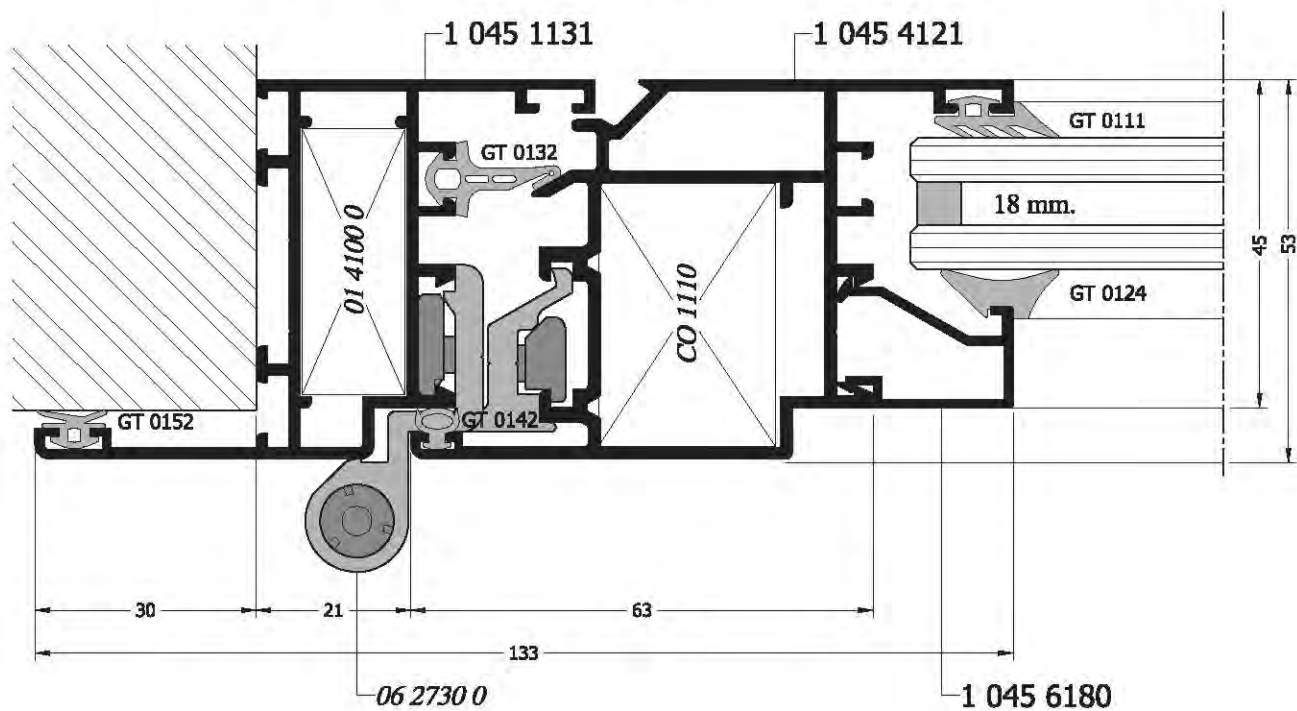
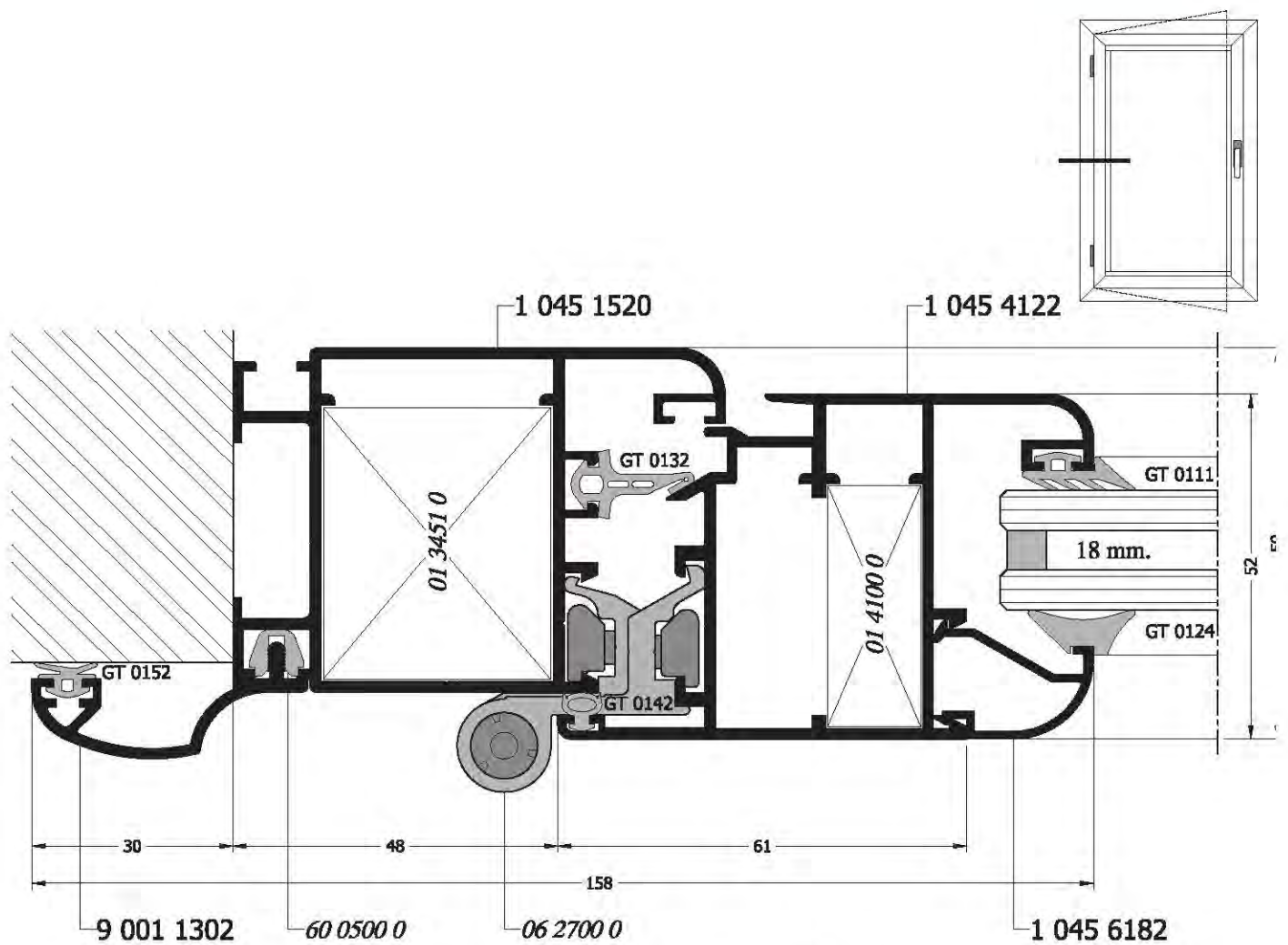


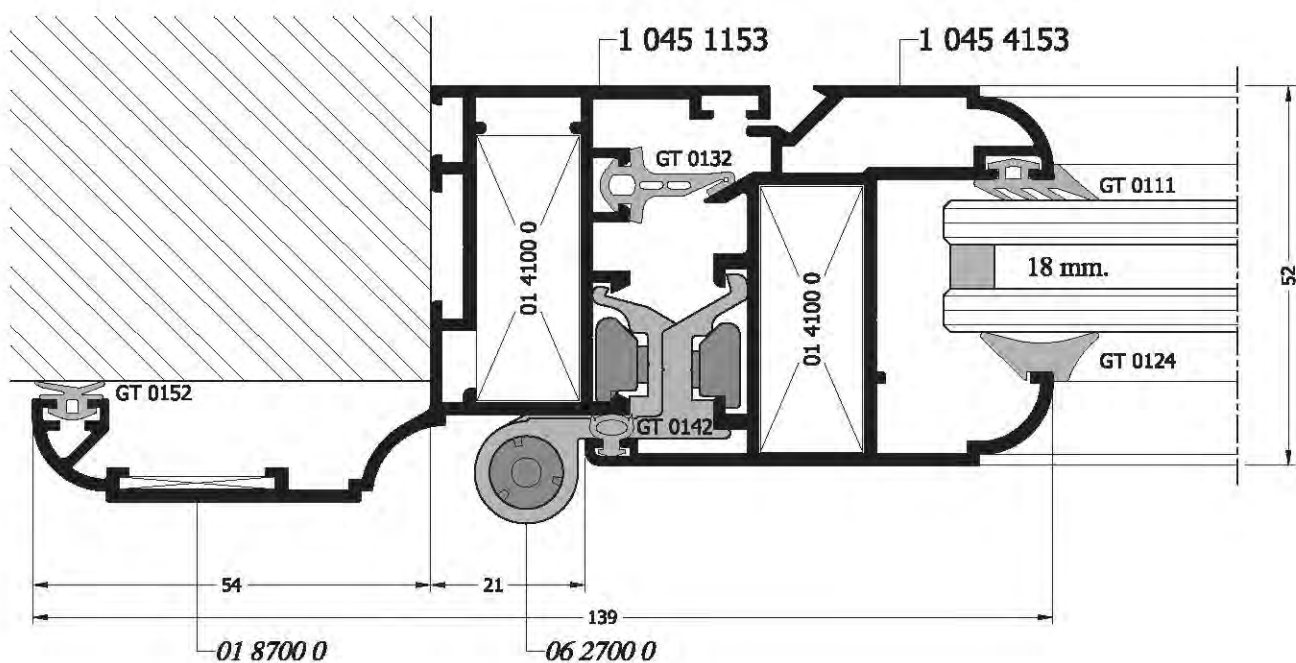
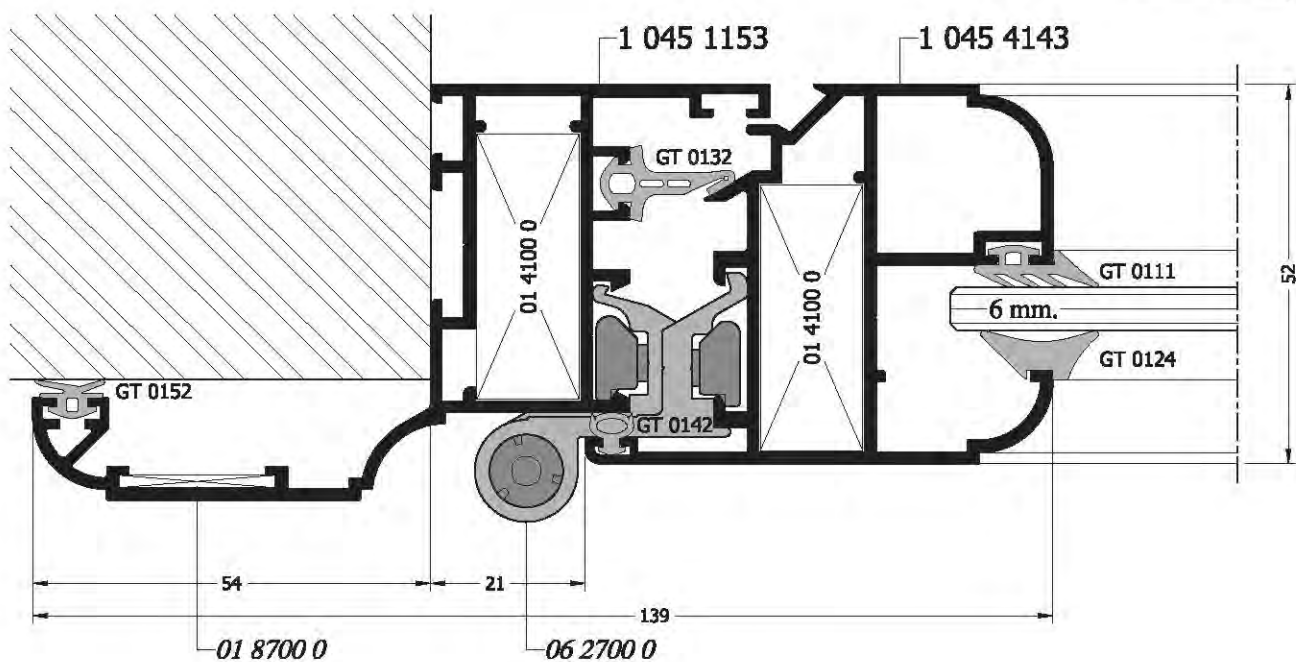
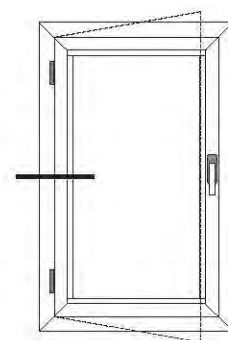


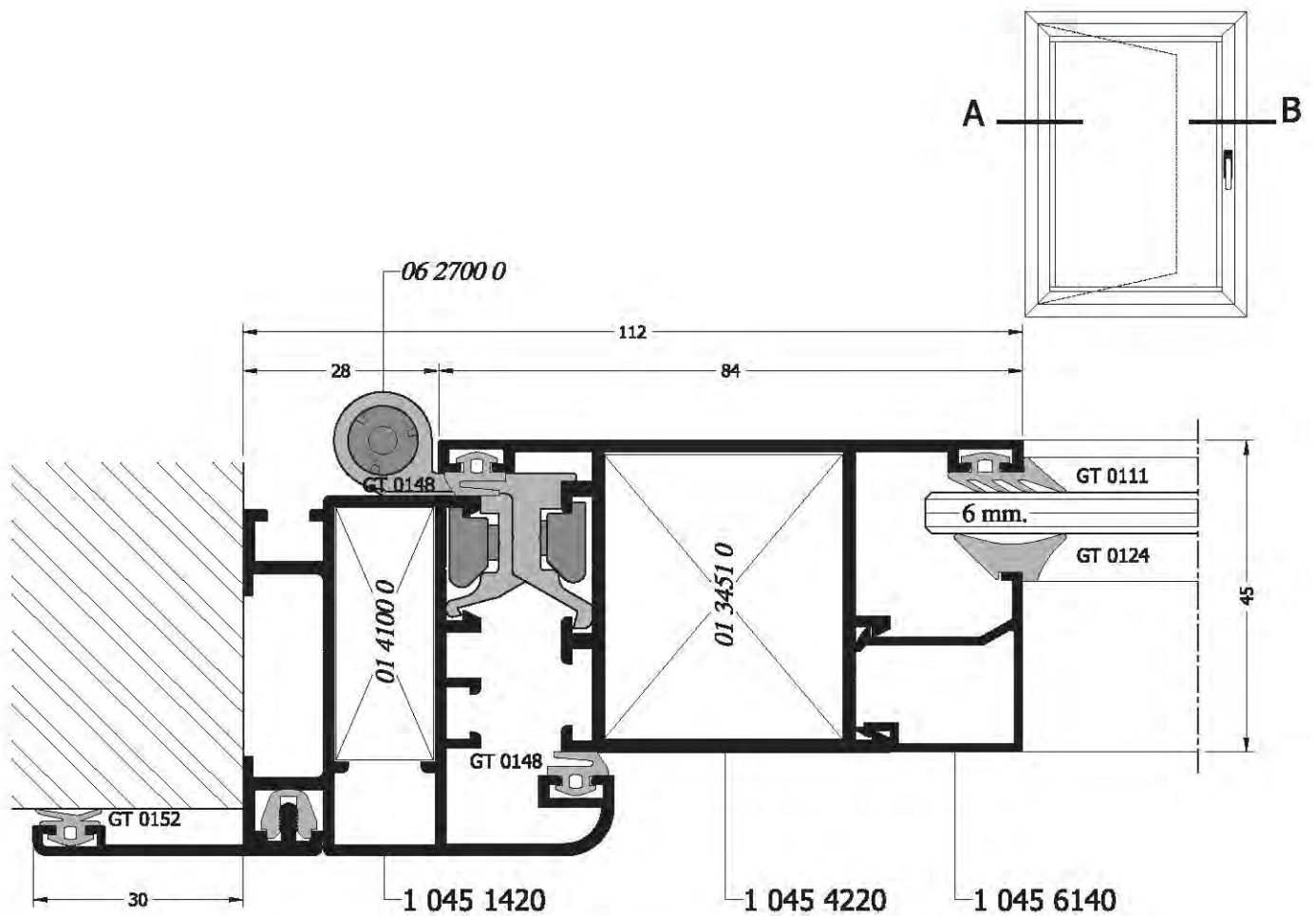




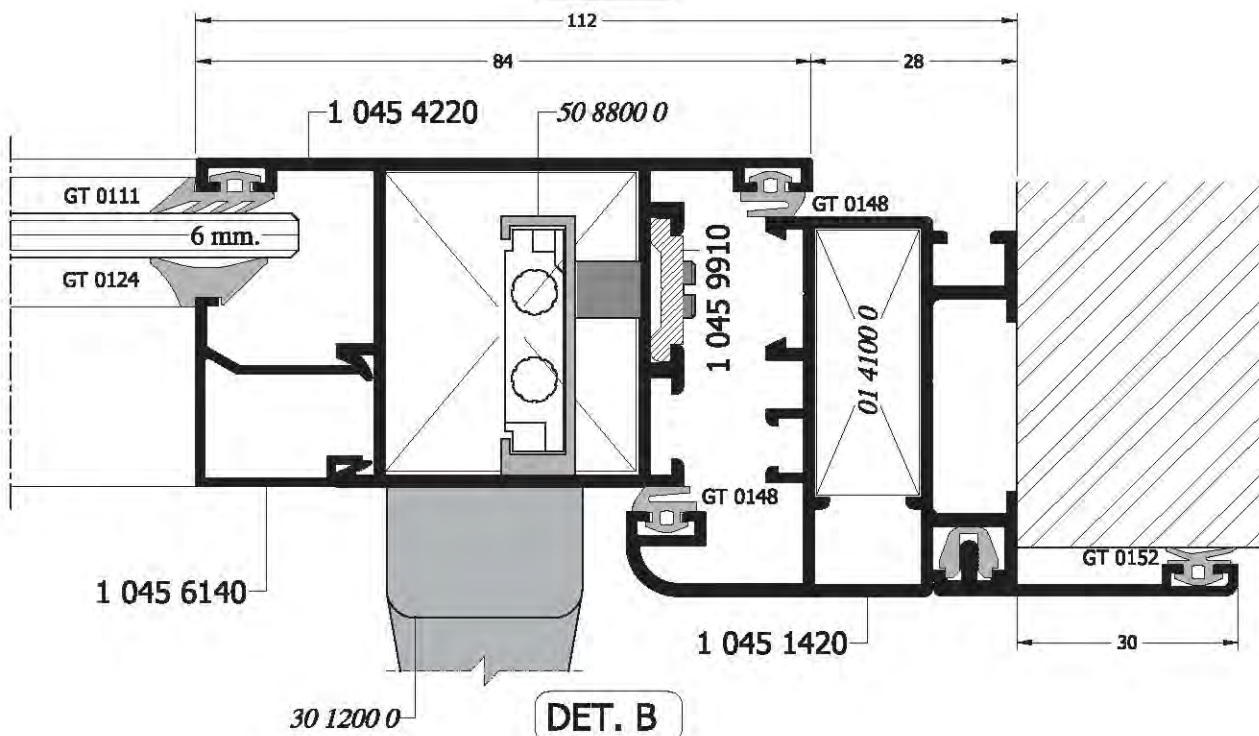


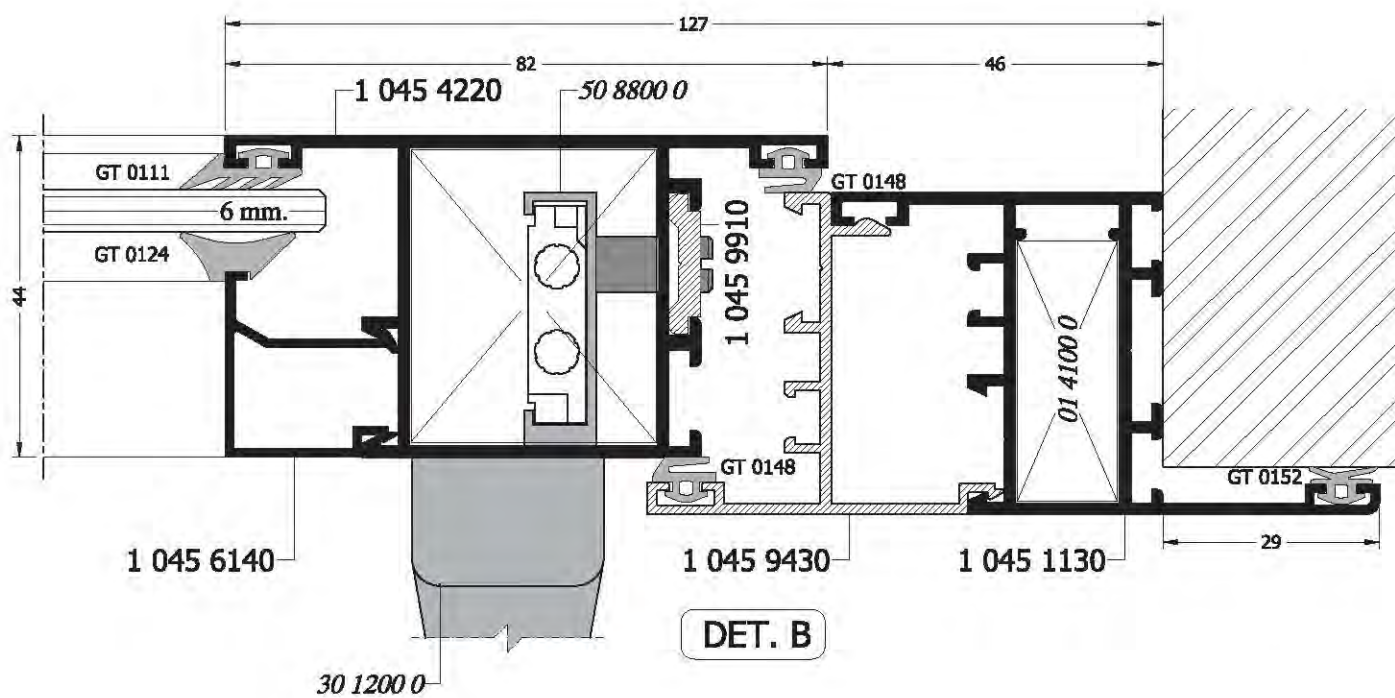
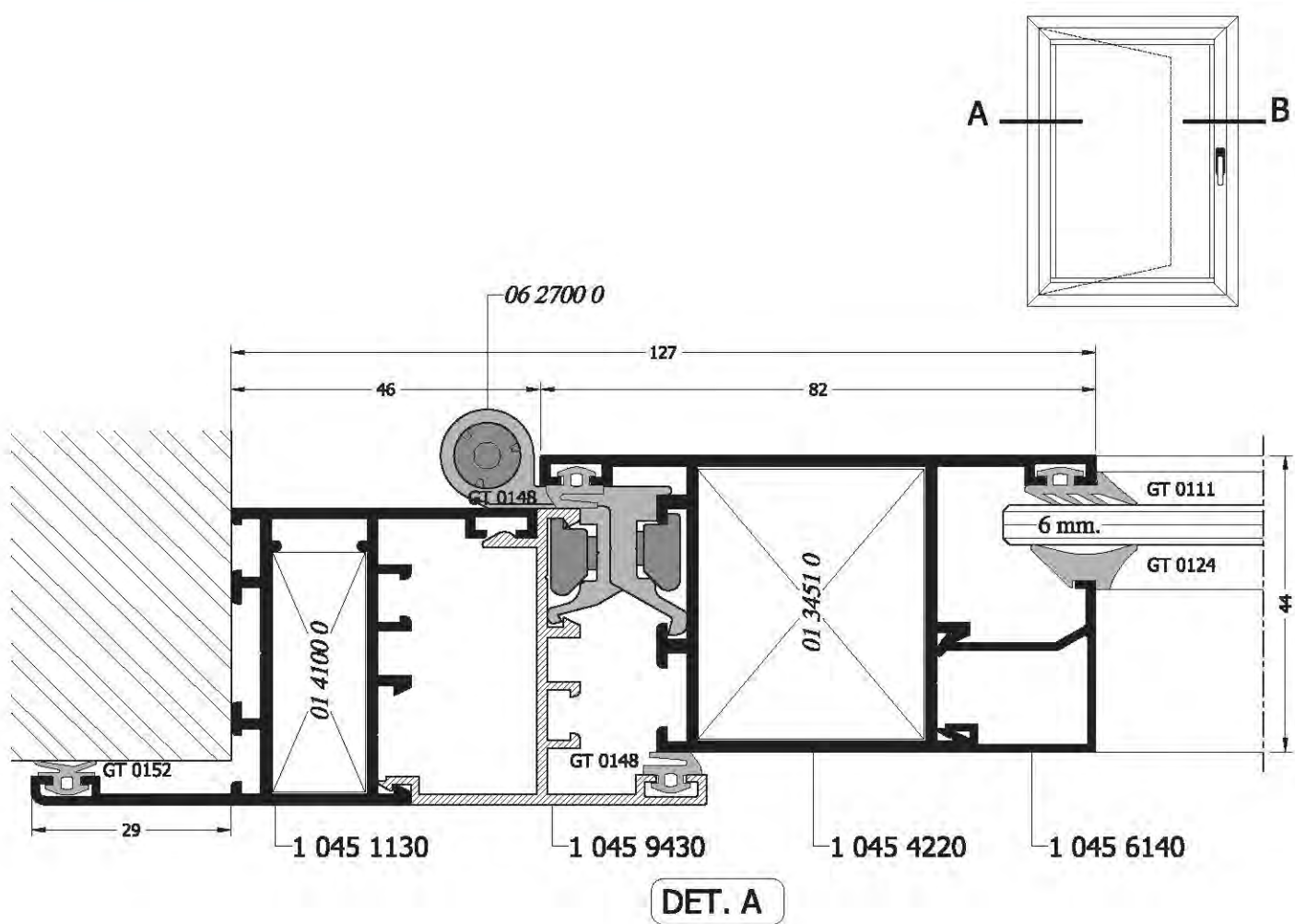


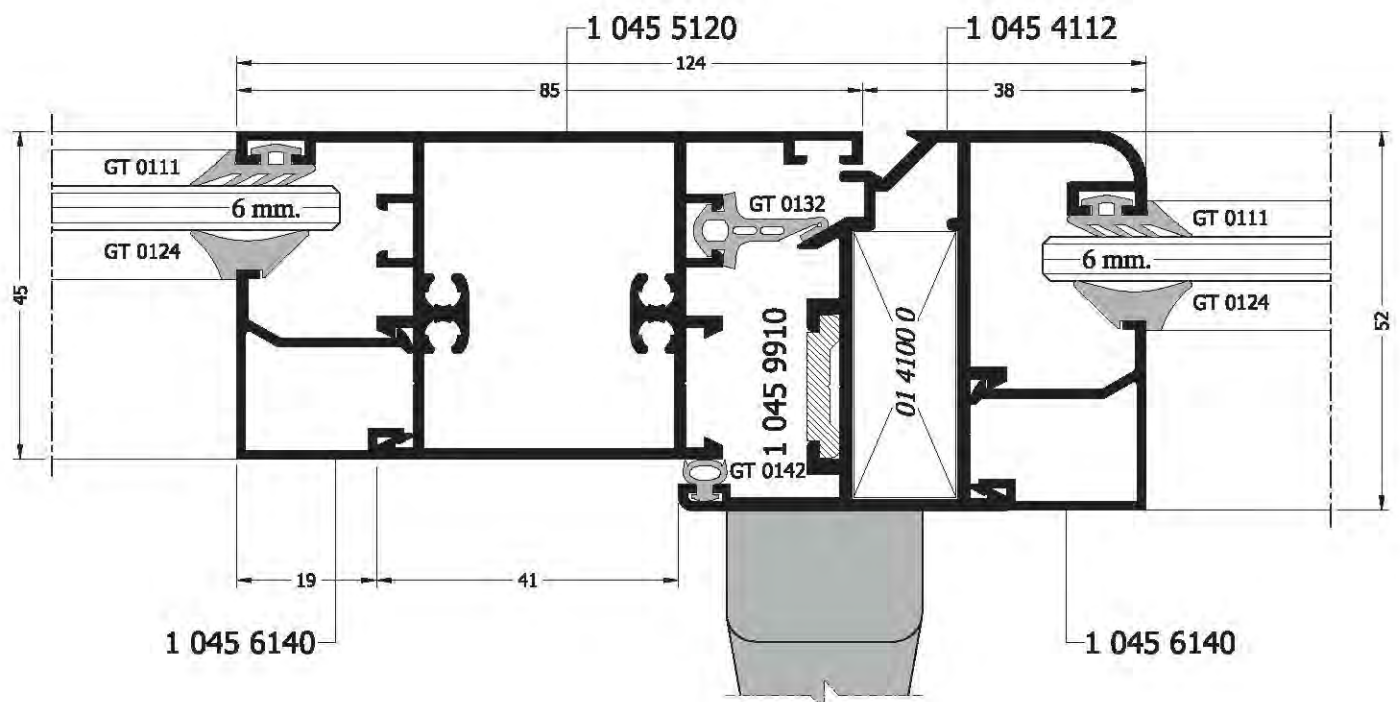


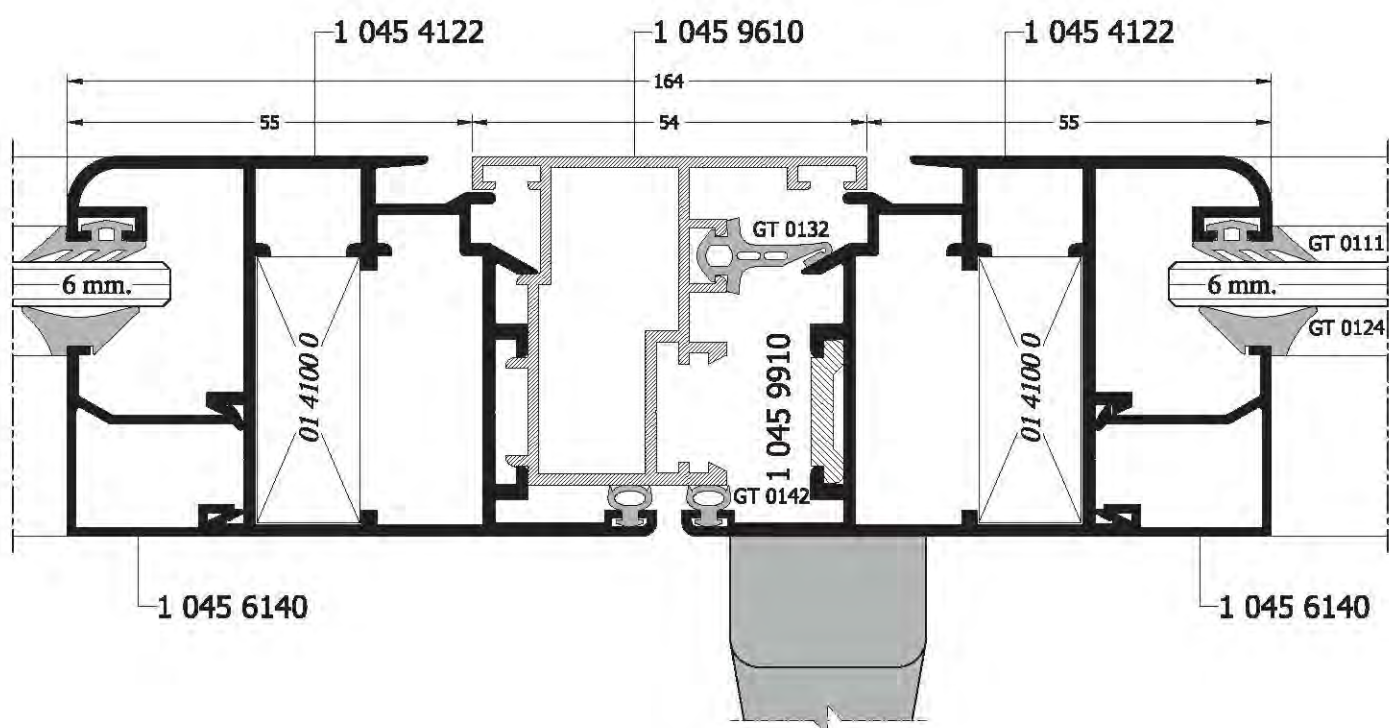
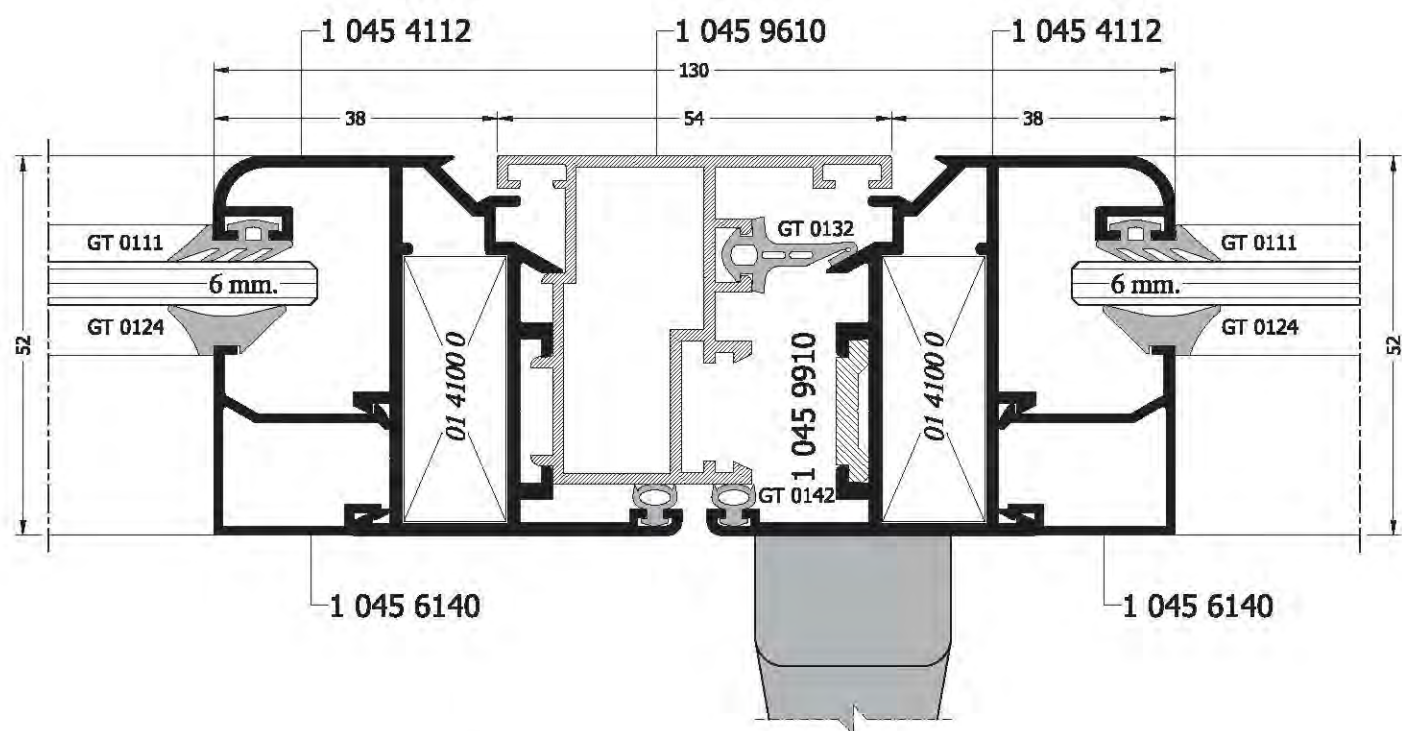
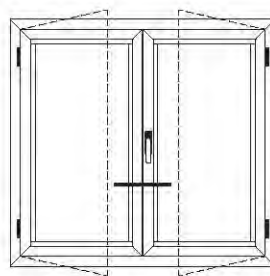


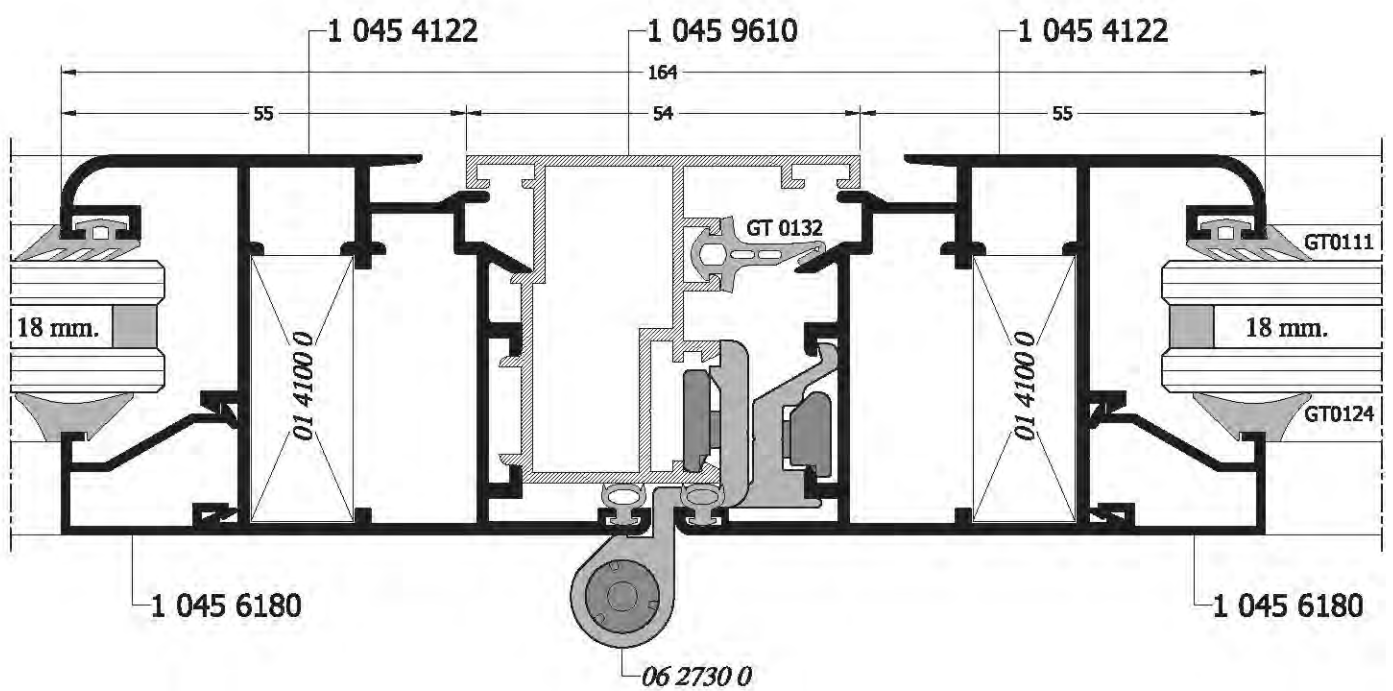
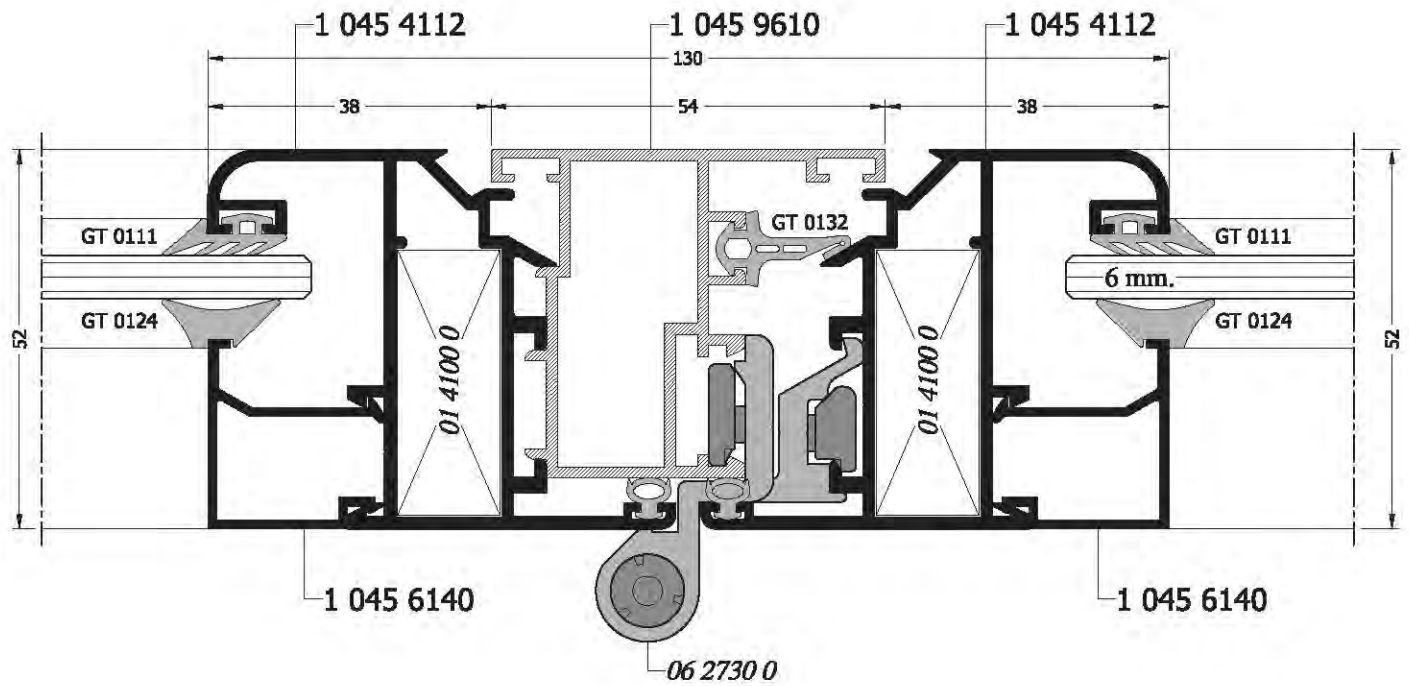
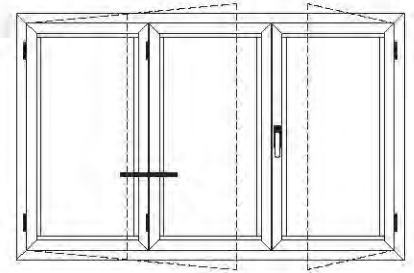
DET. A

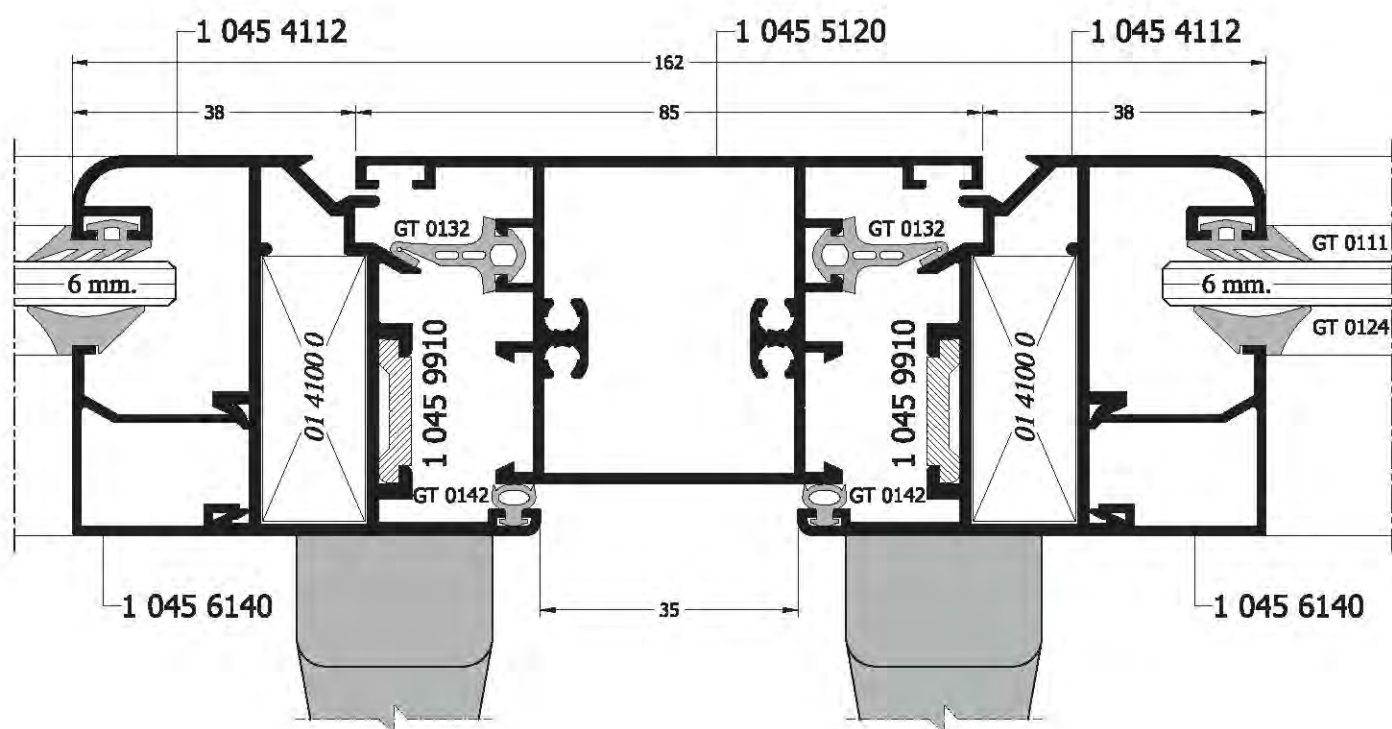
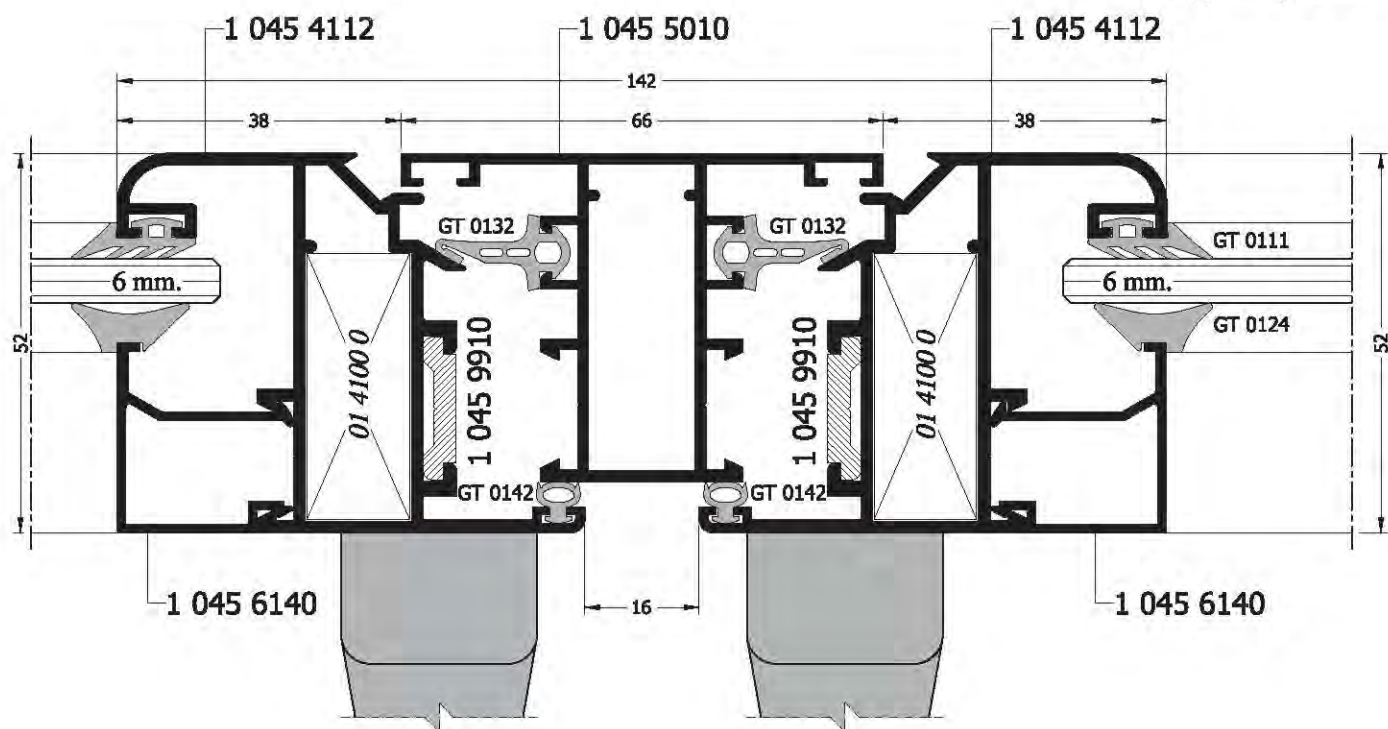
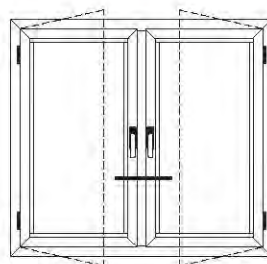


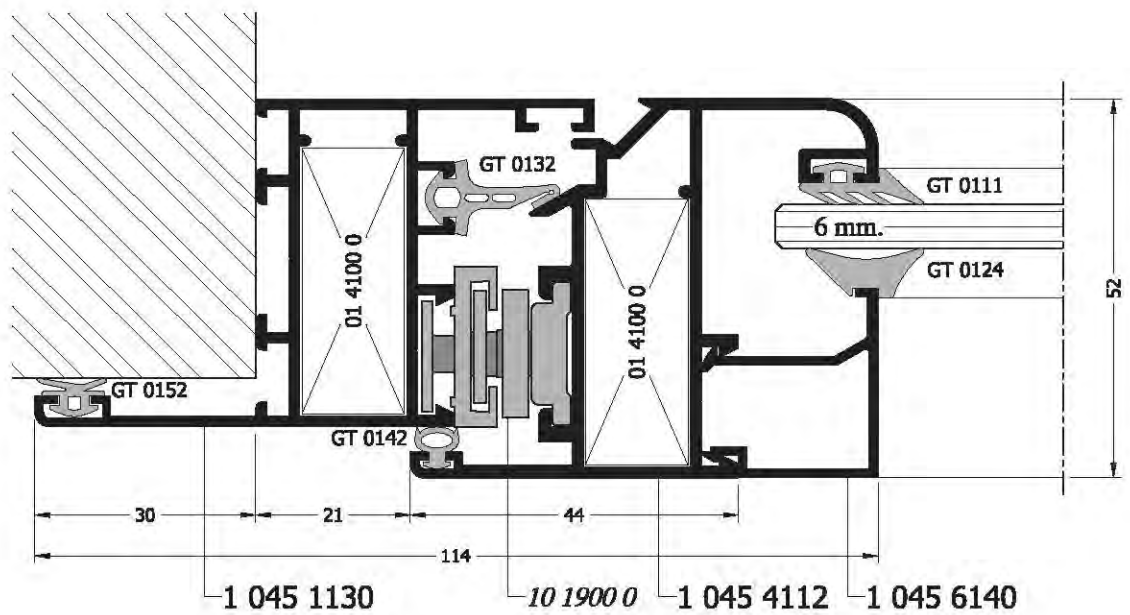
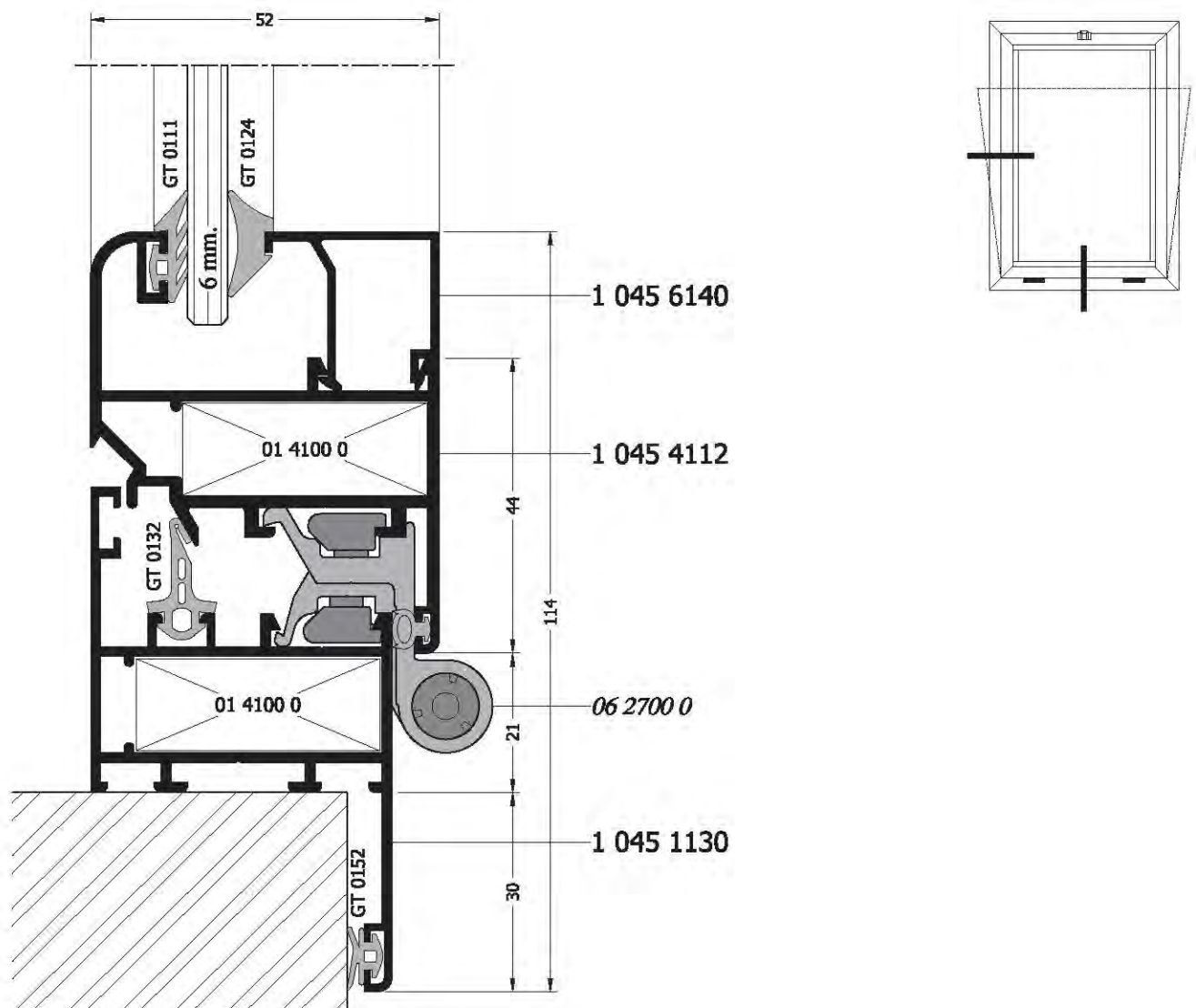


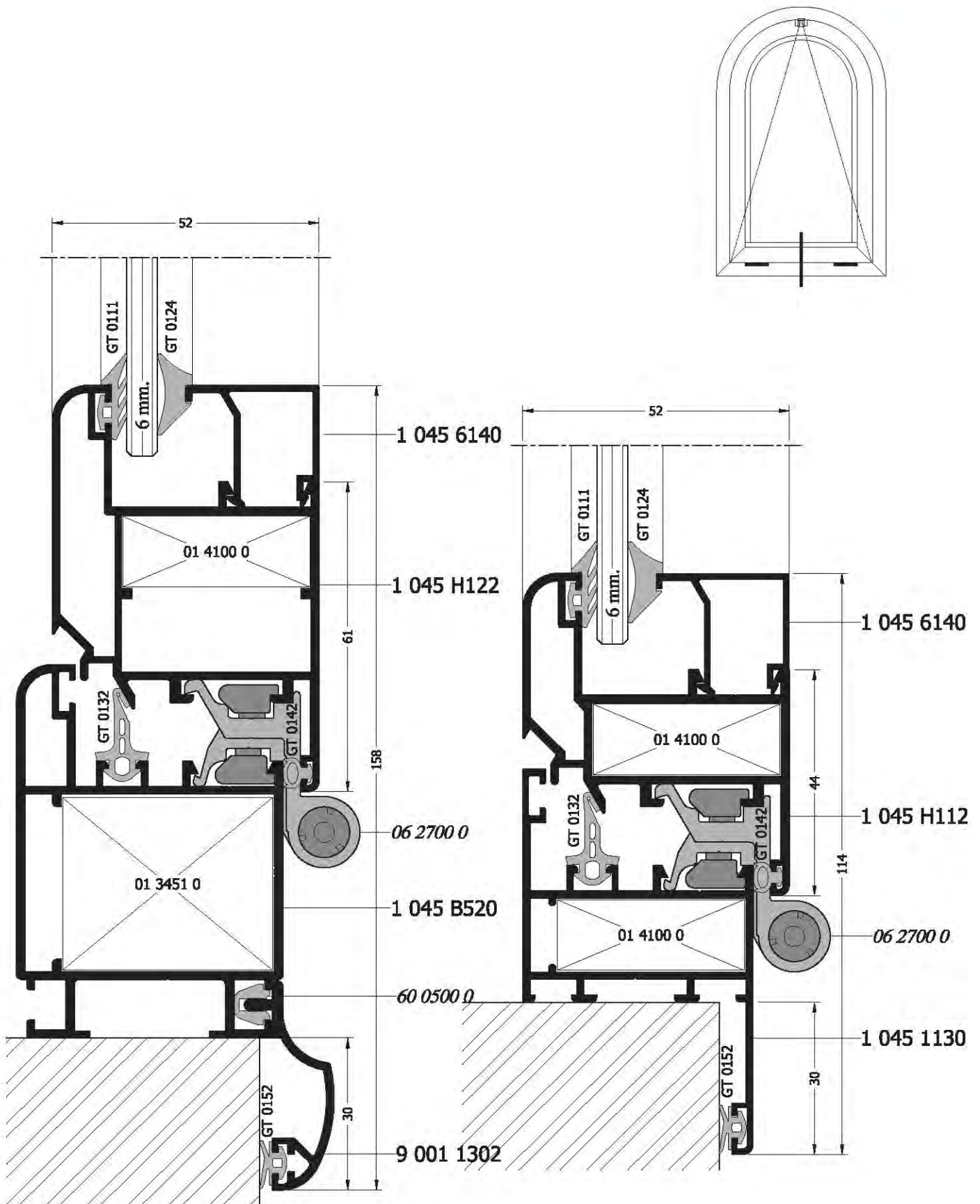


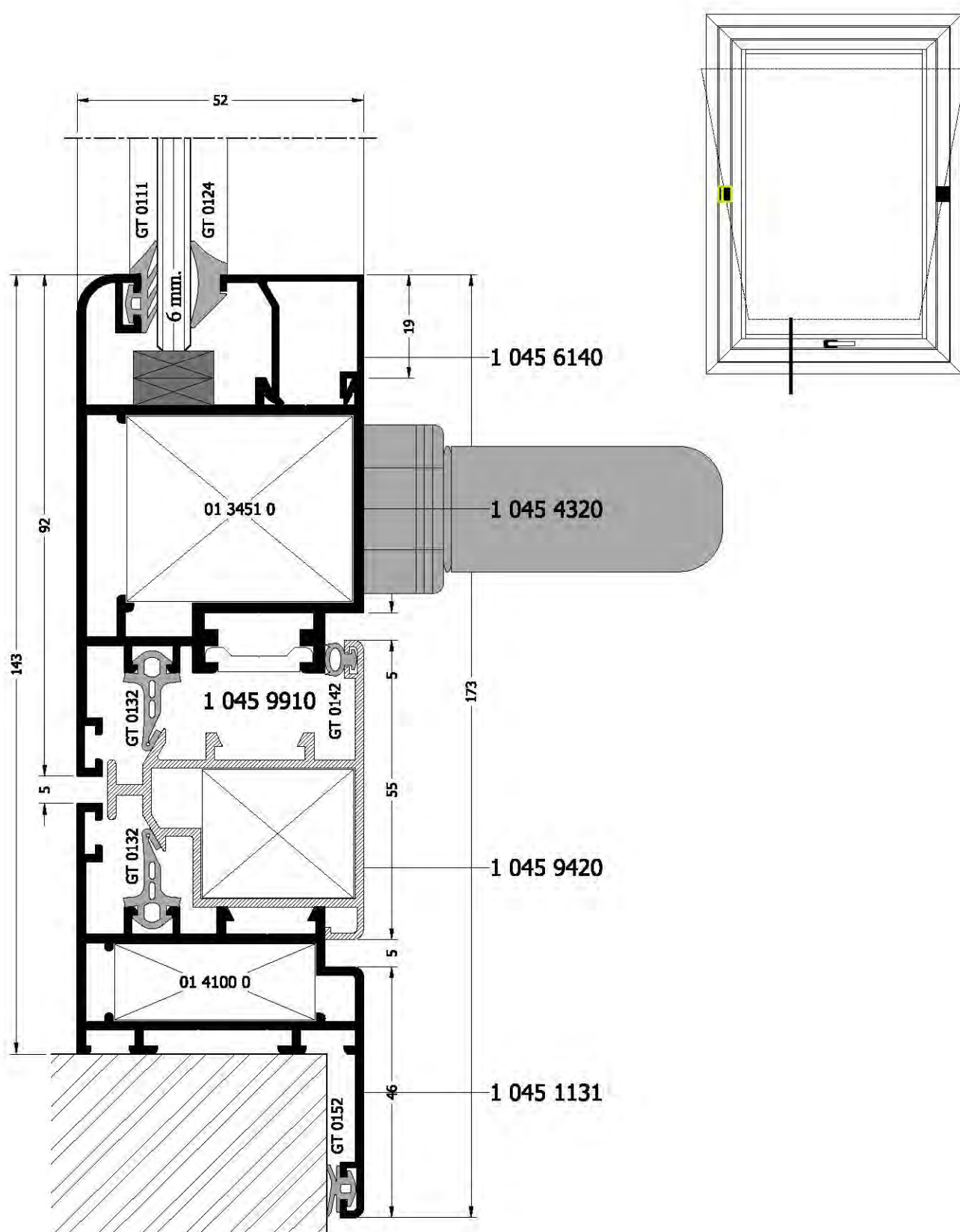


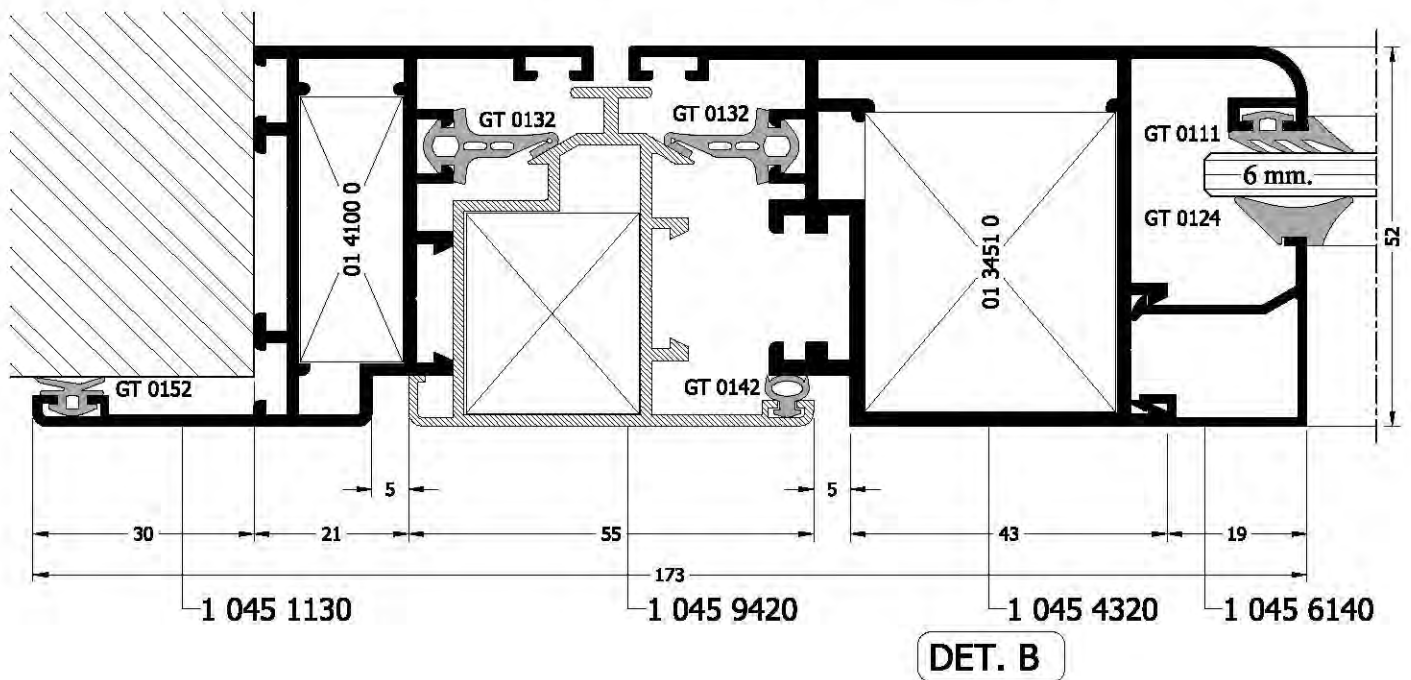
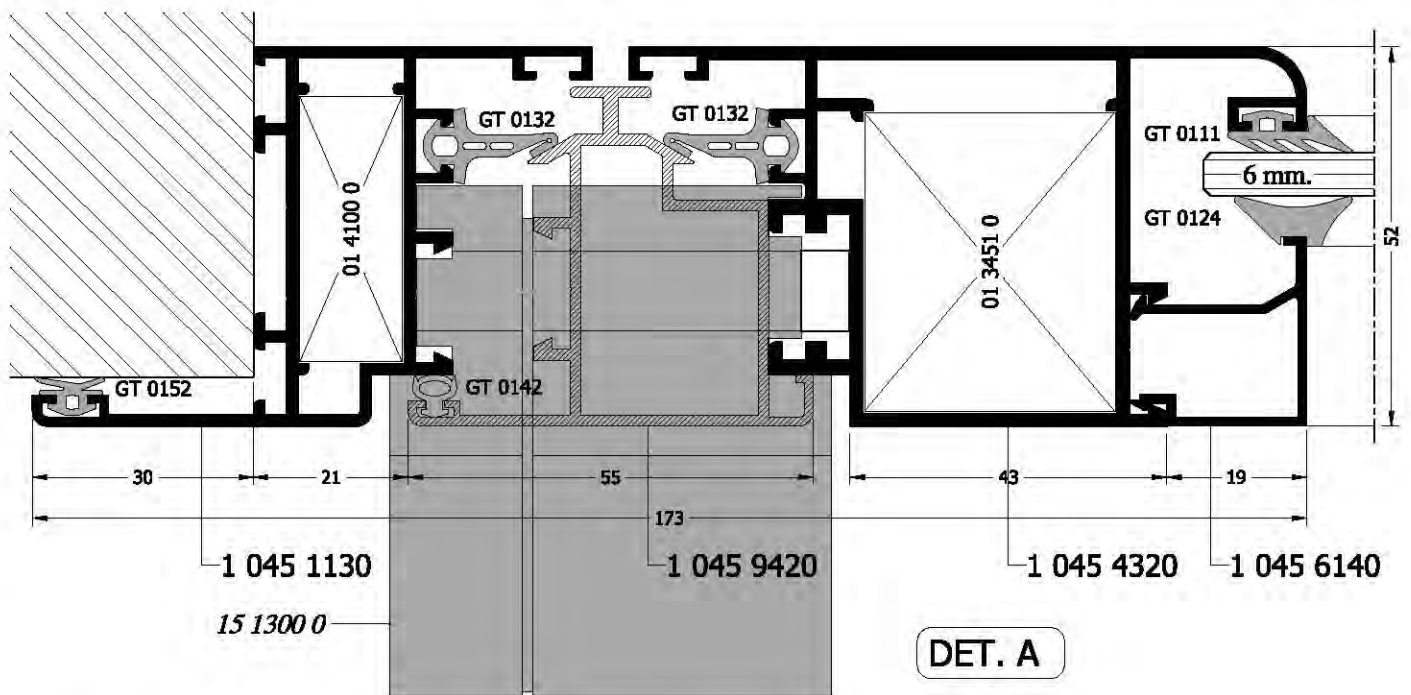
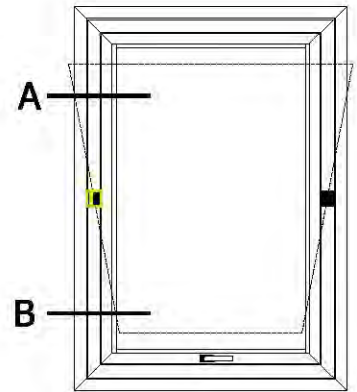


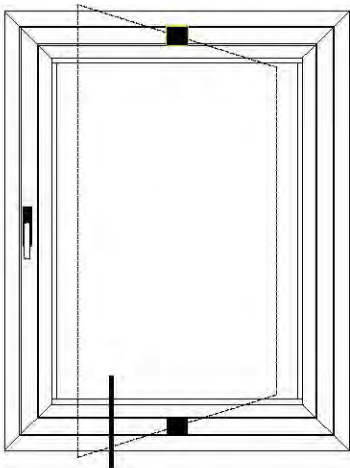


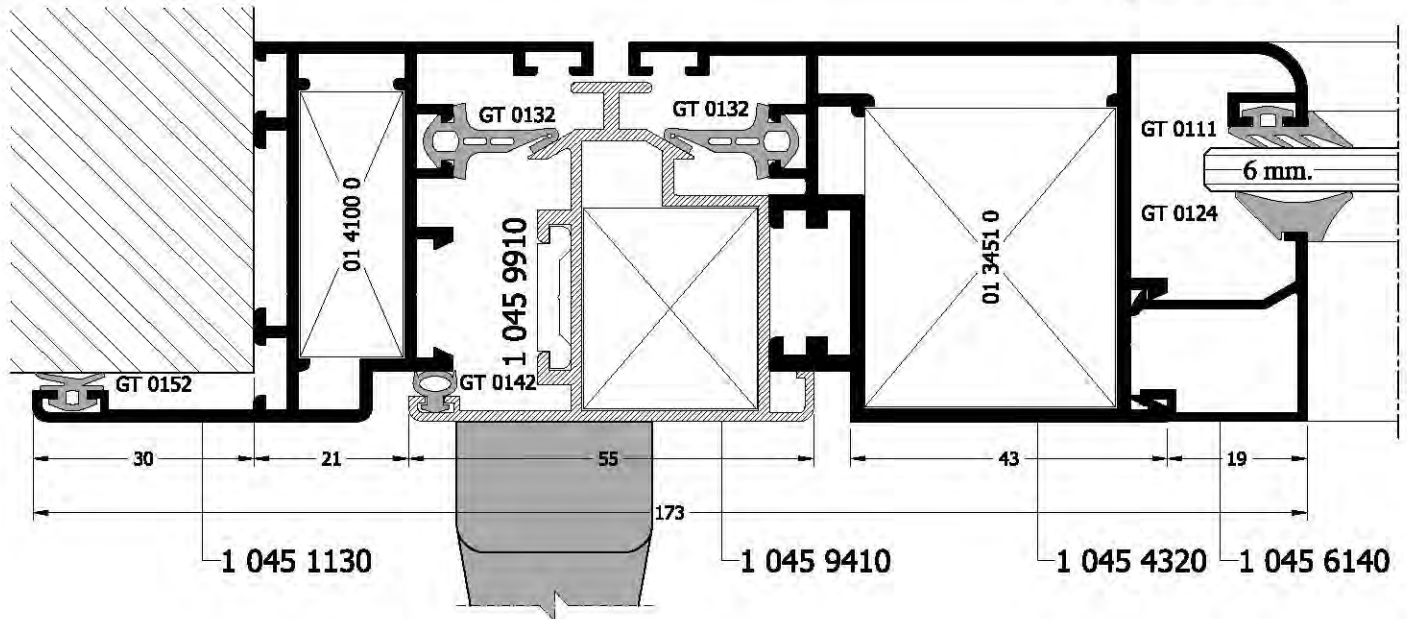
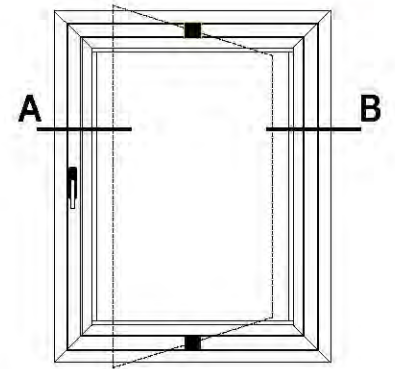




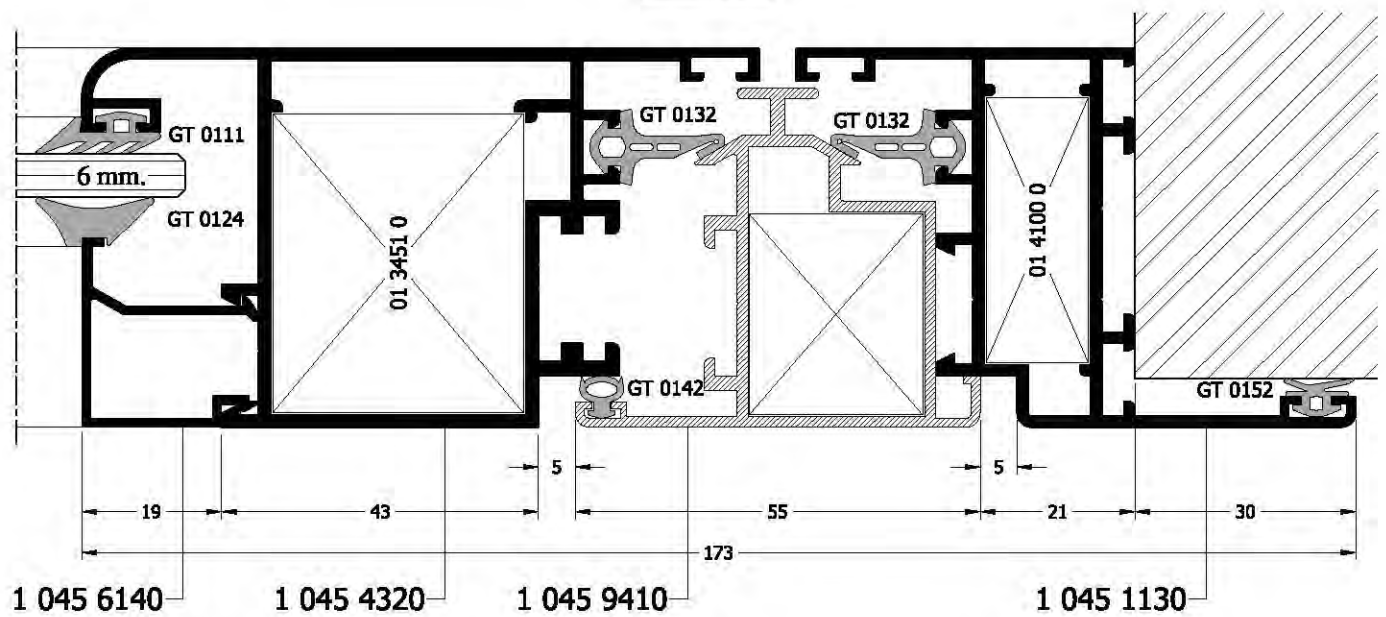




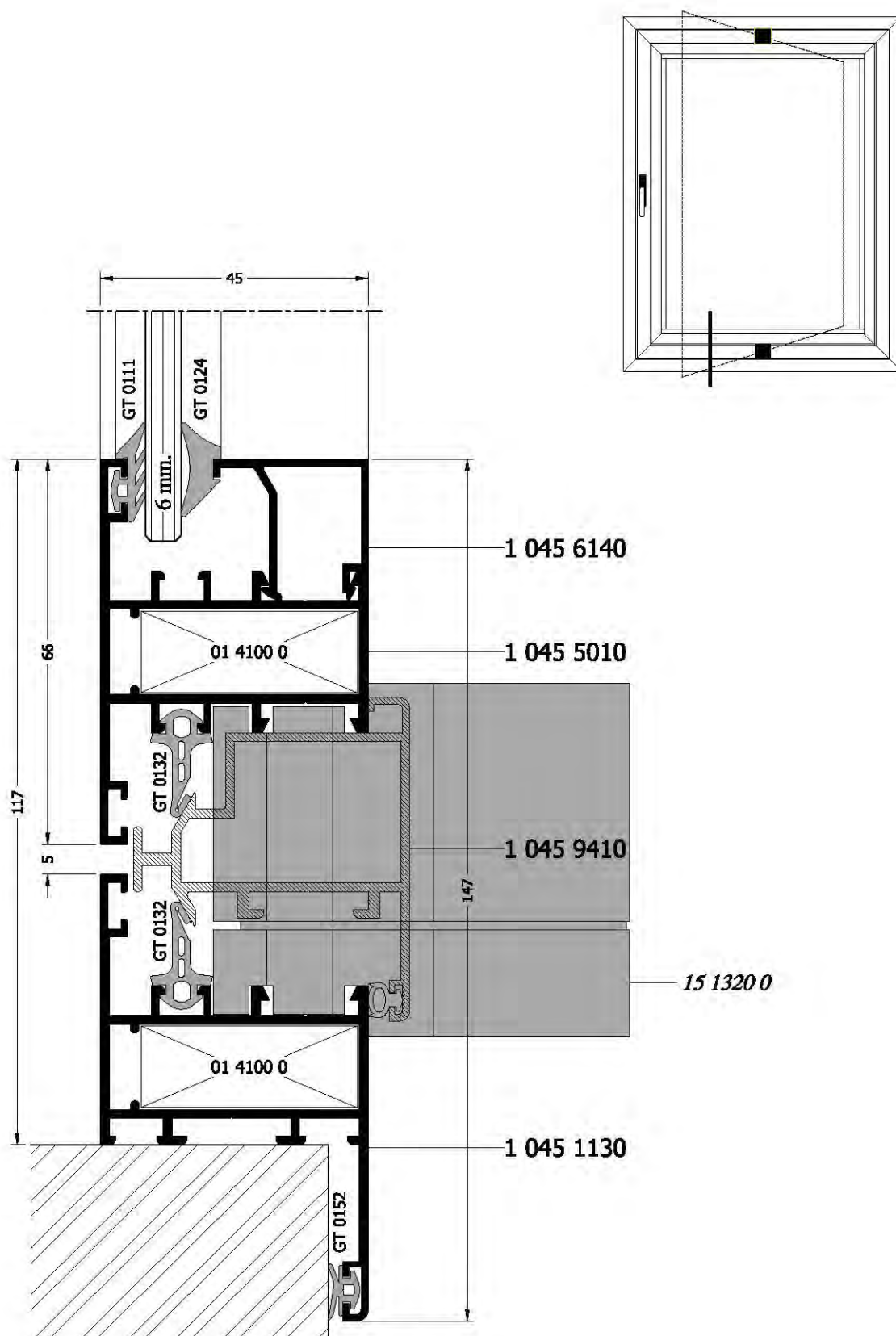


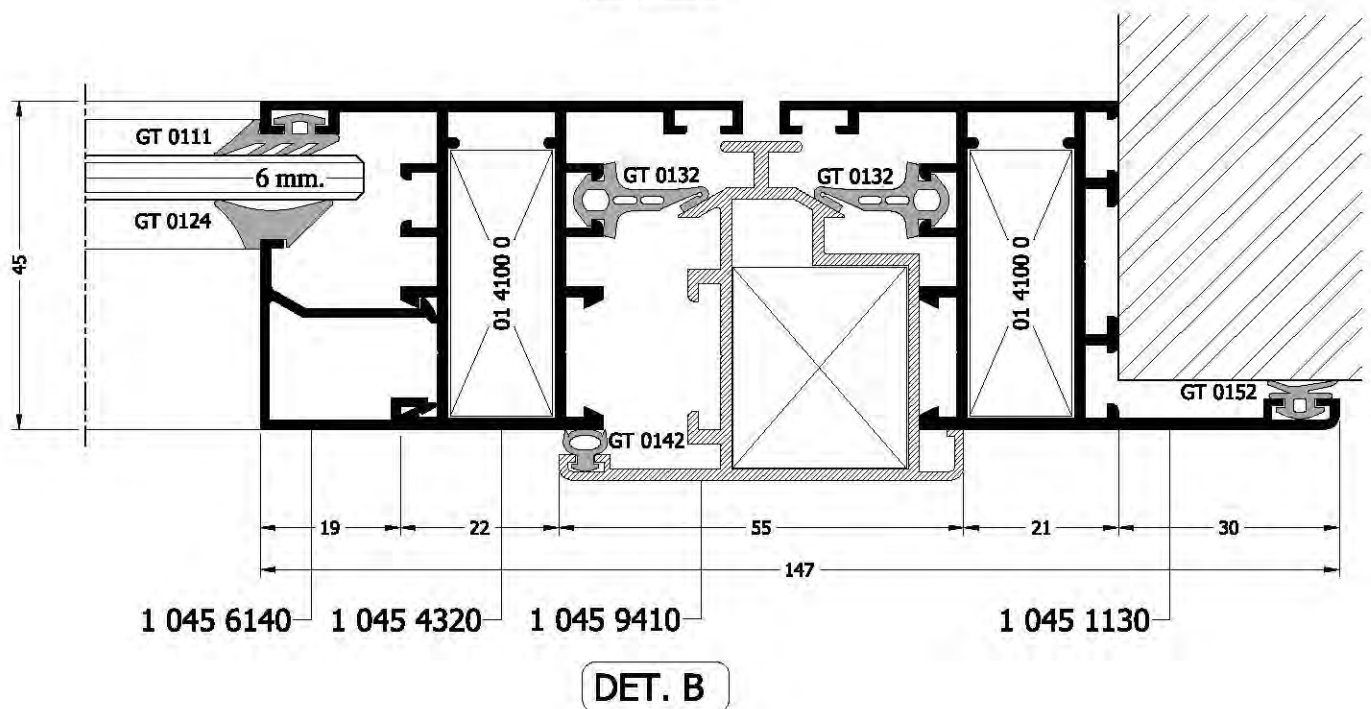
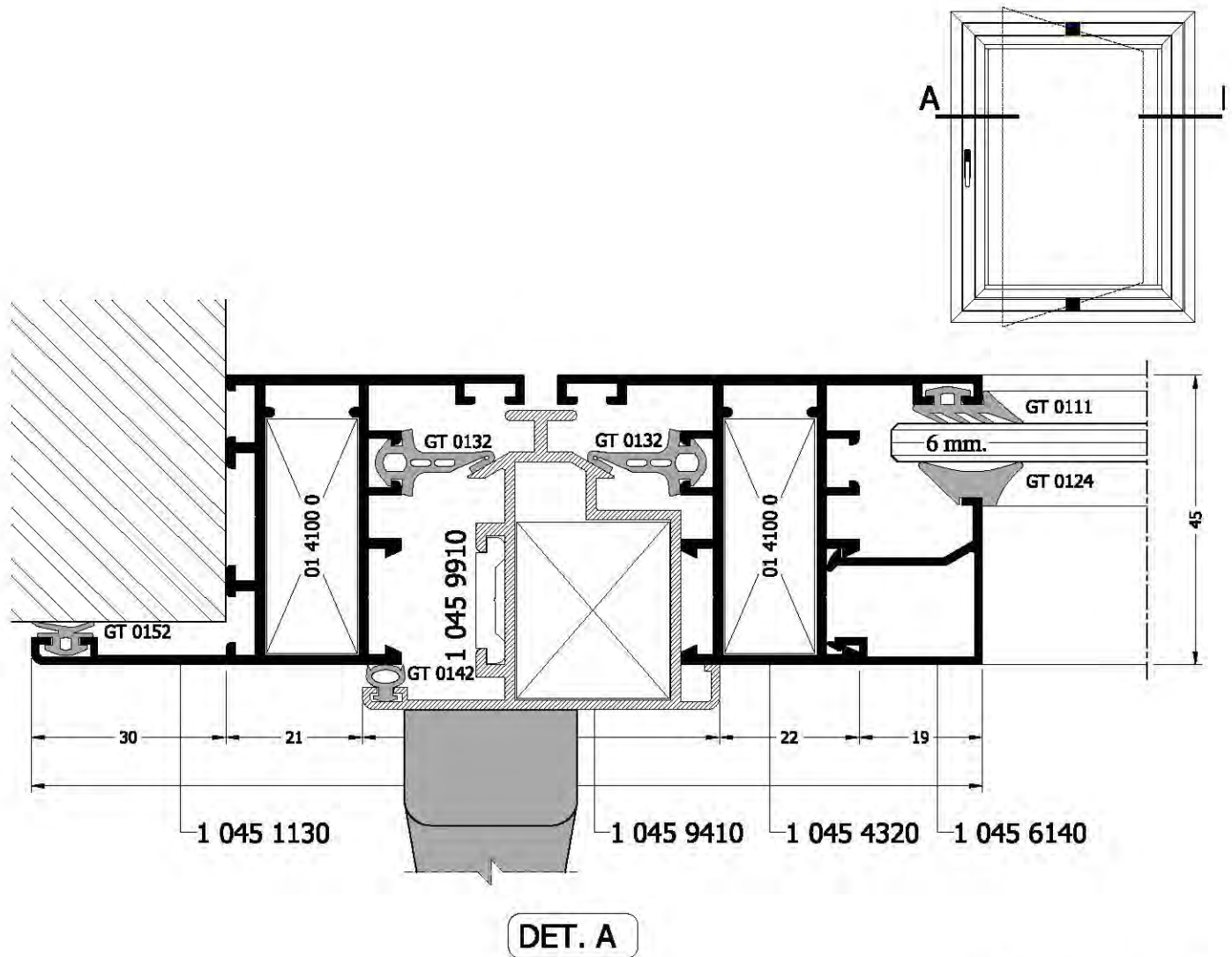


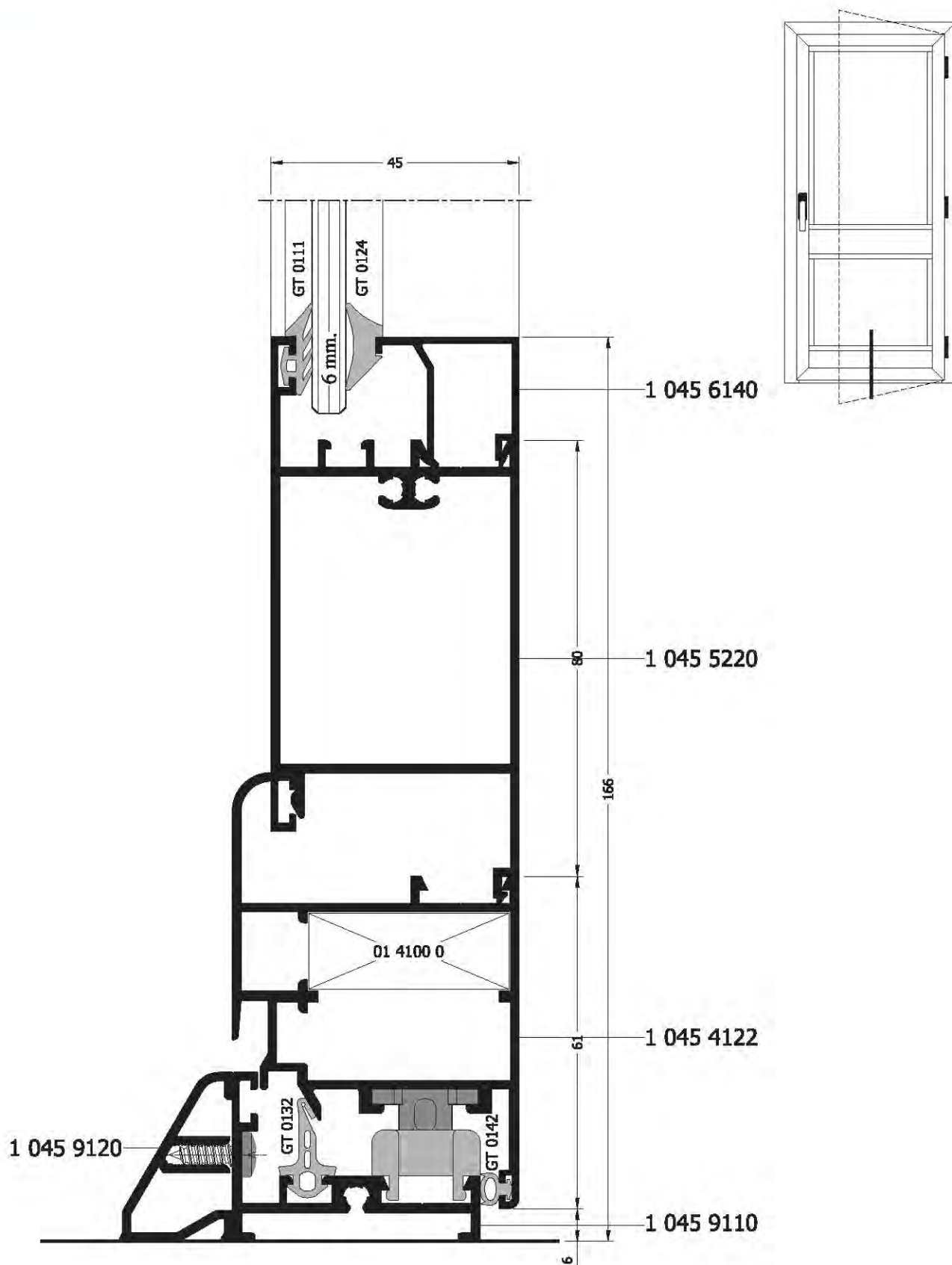
DET. A

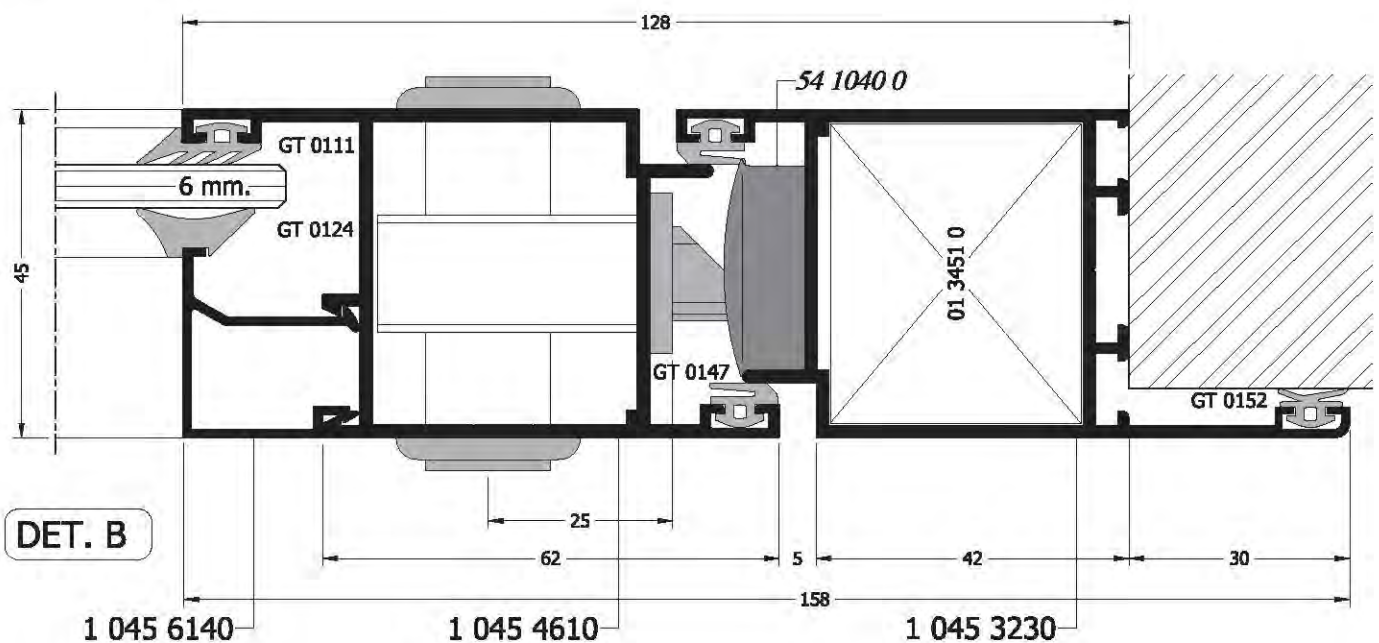
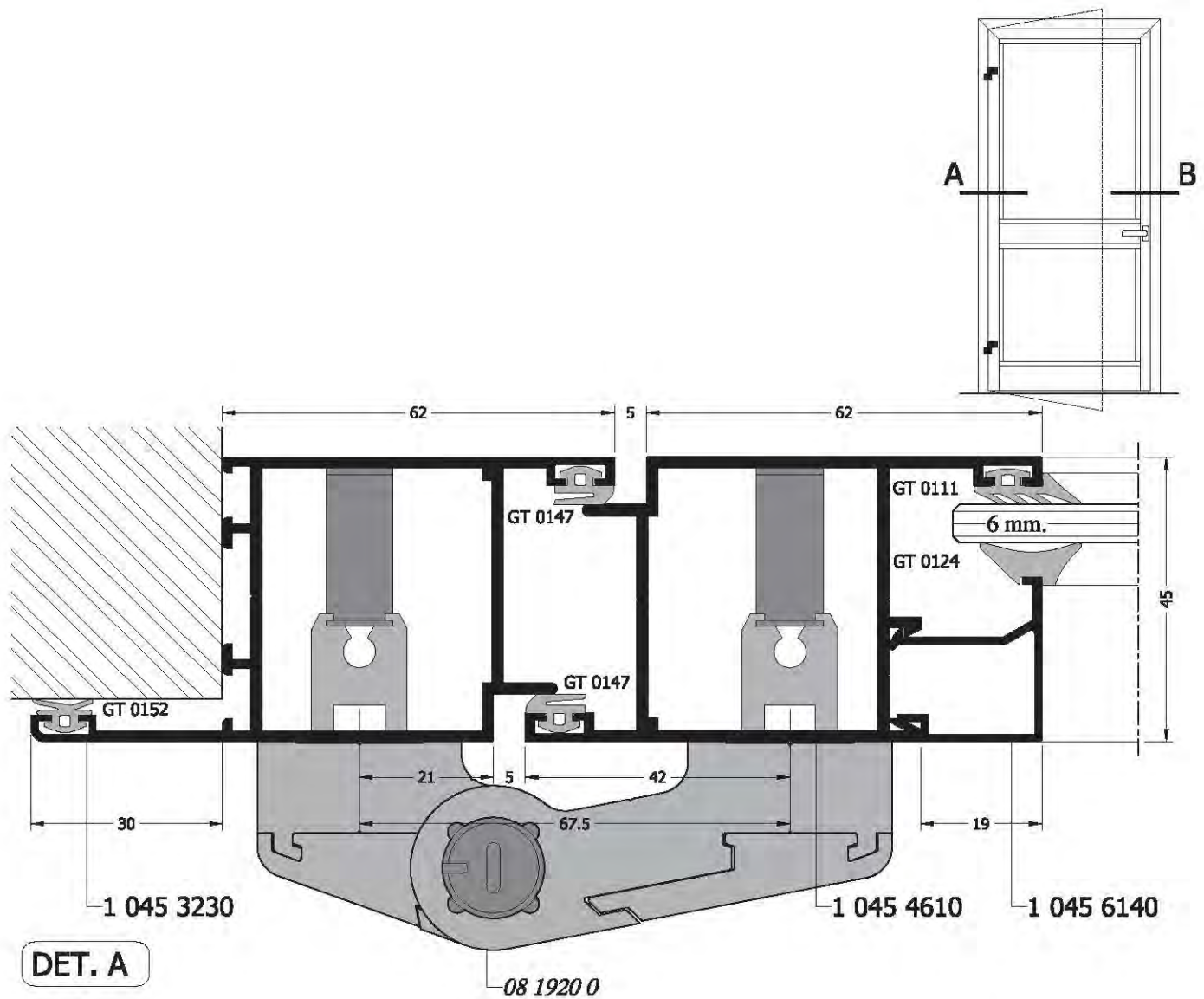


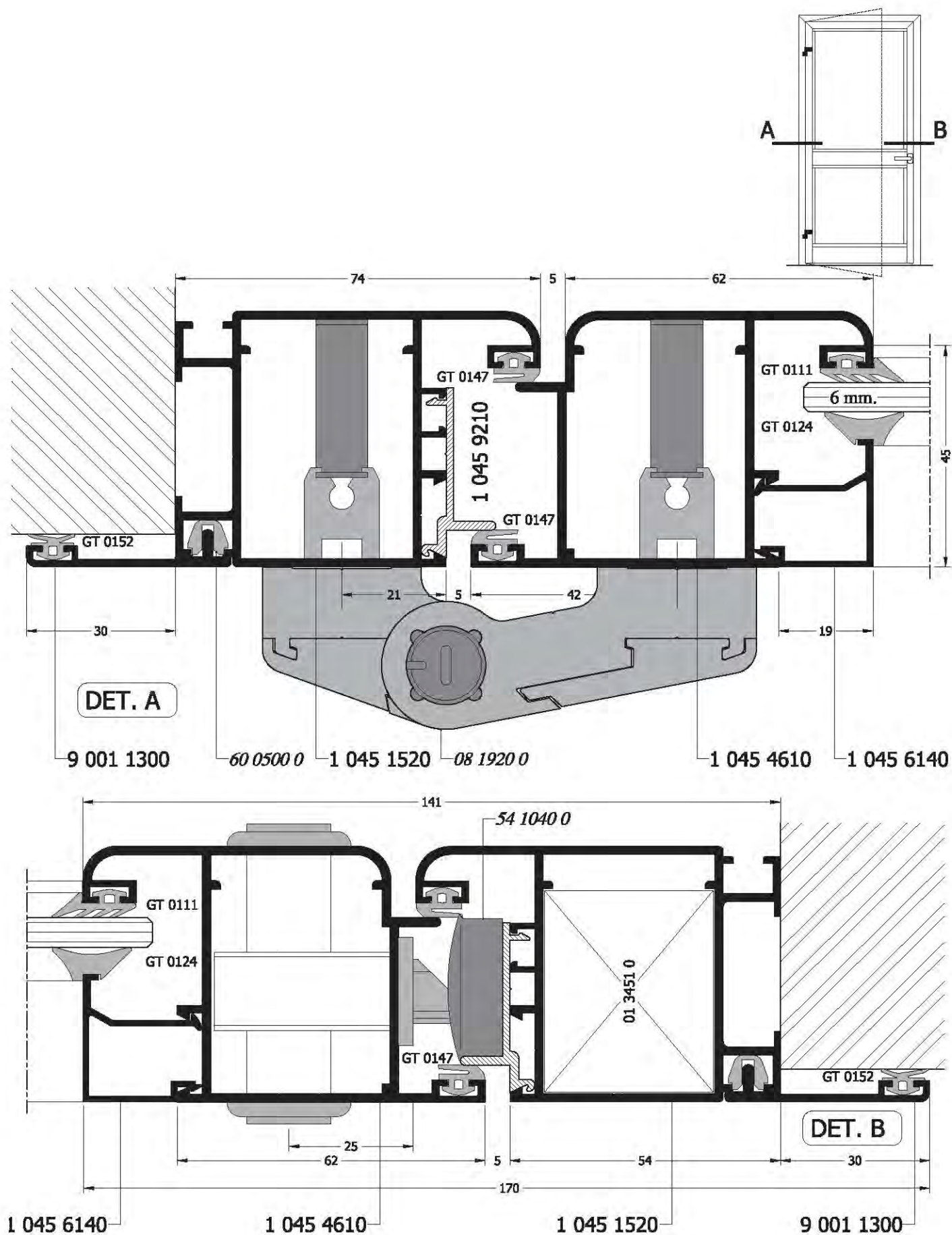
DET. B

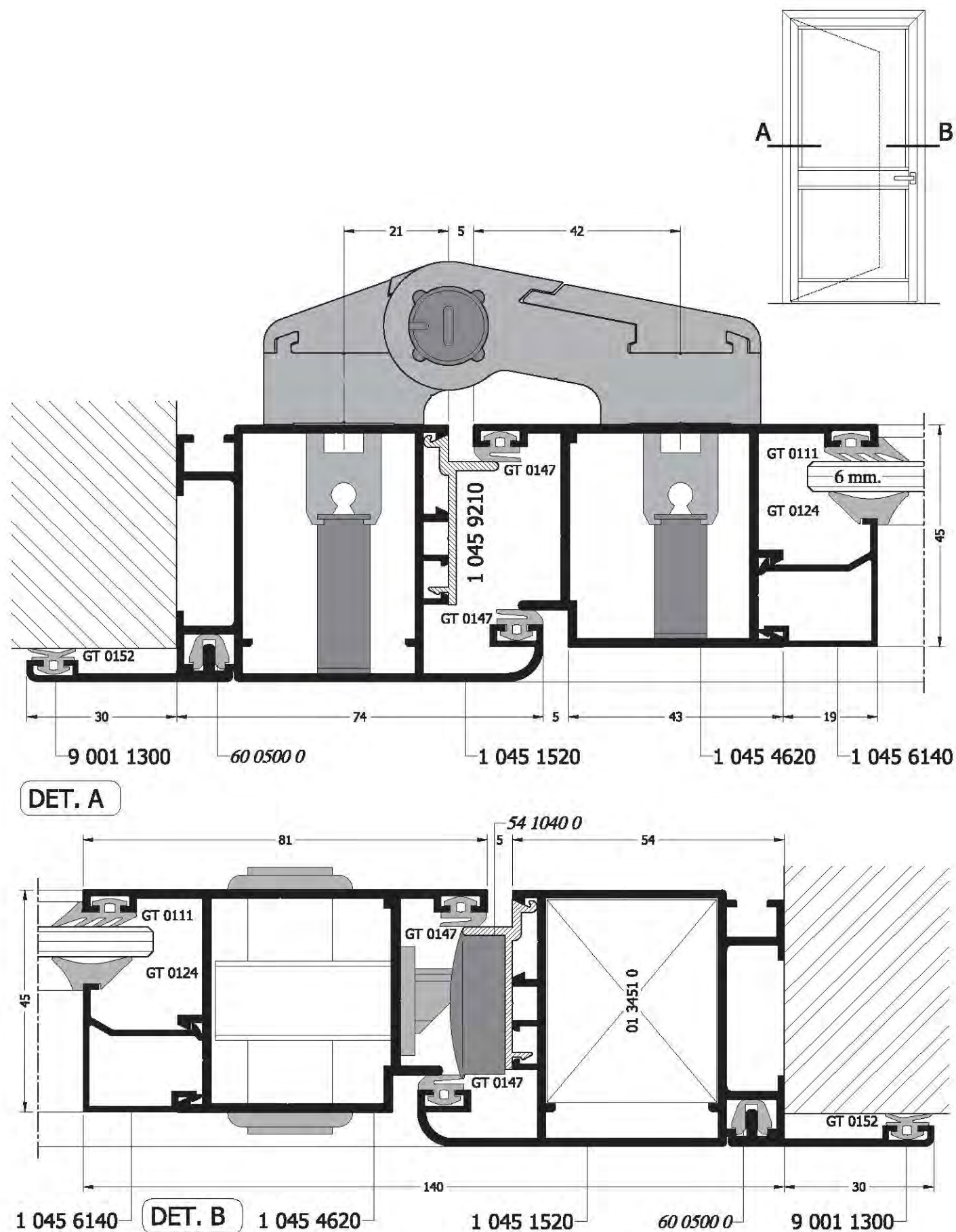


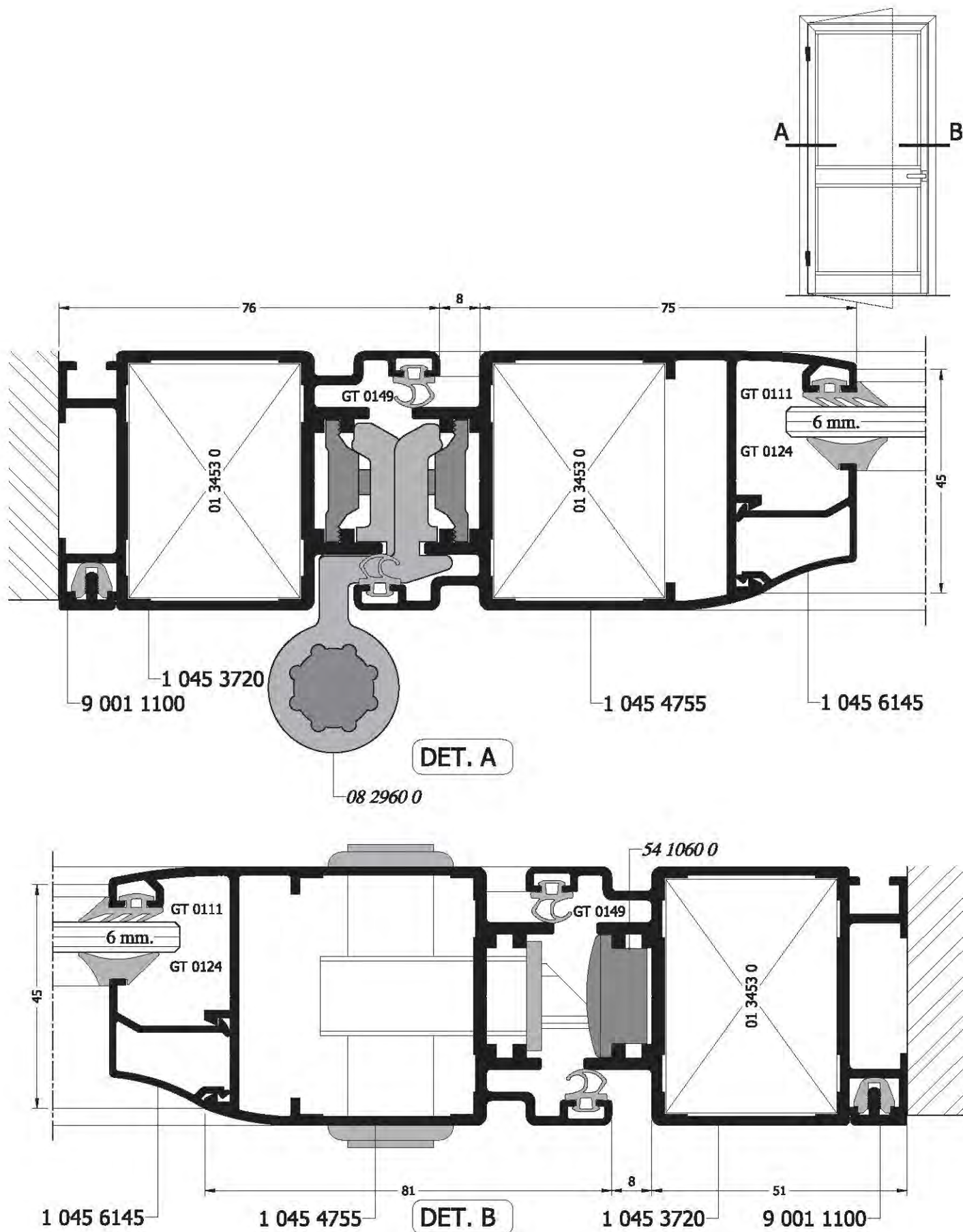


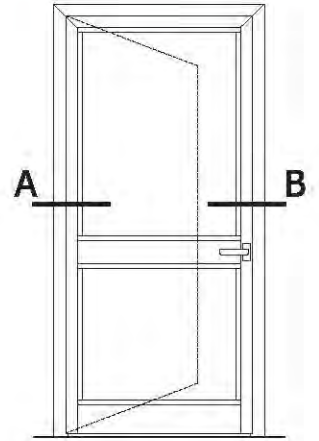


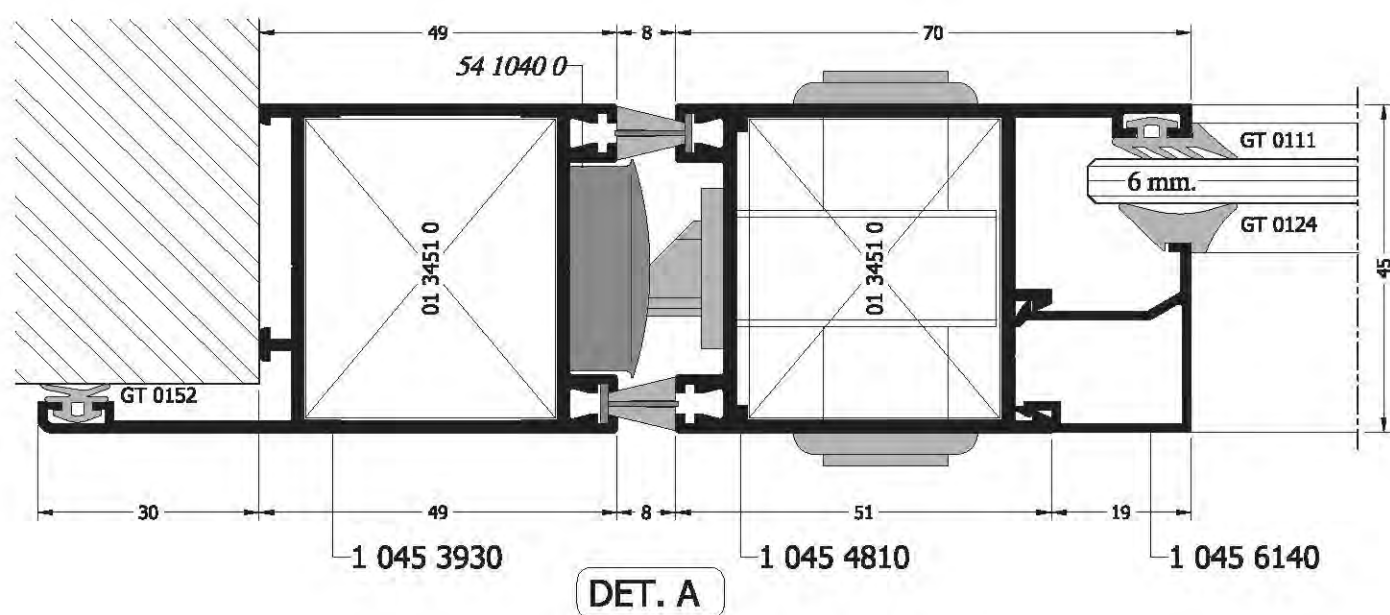
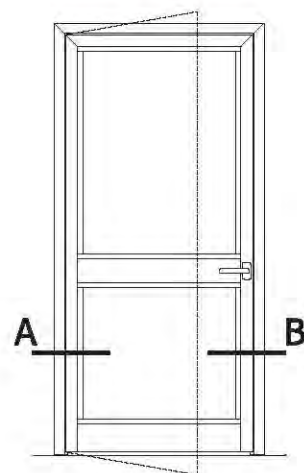




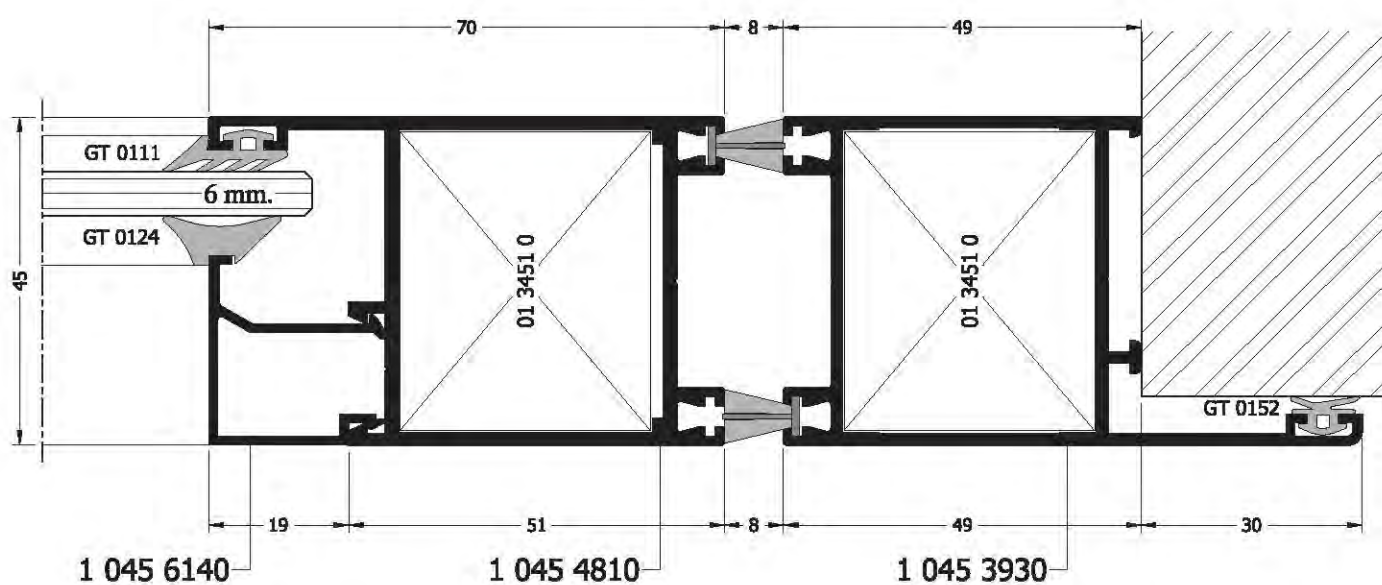




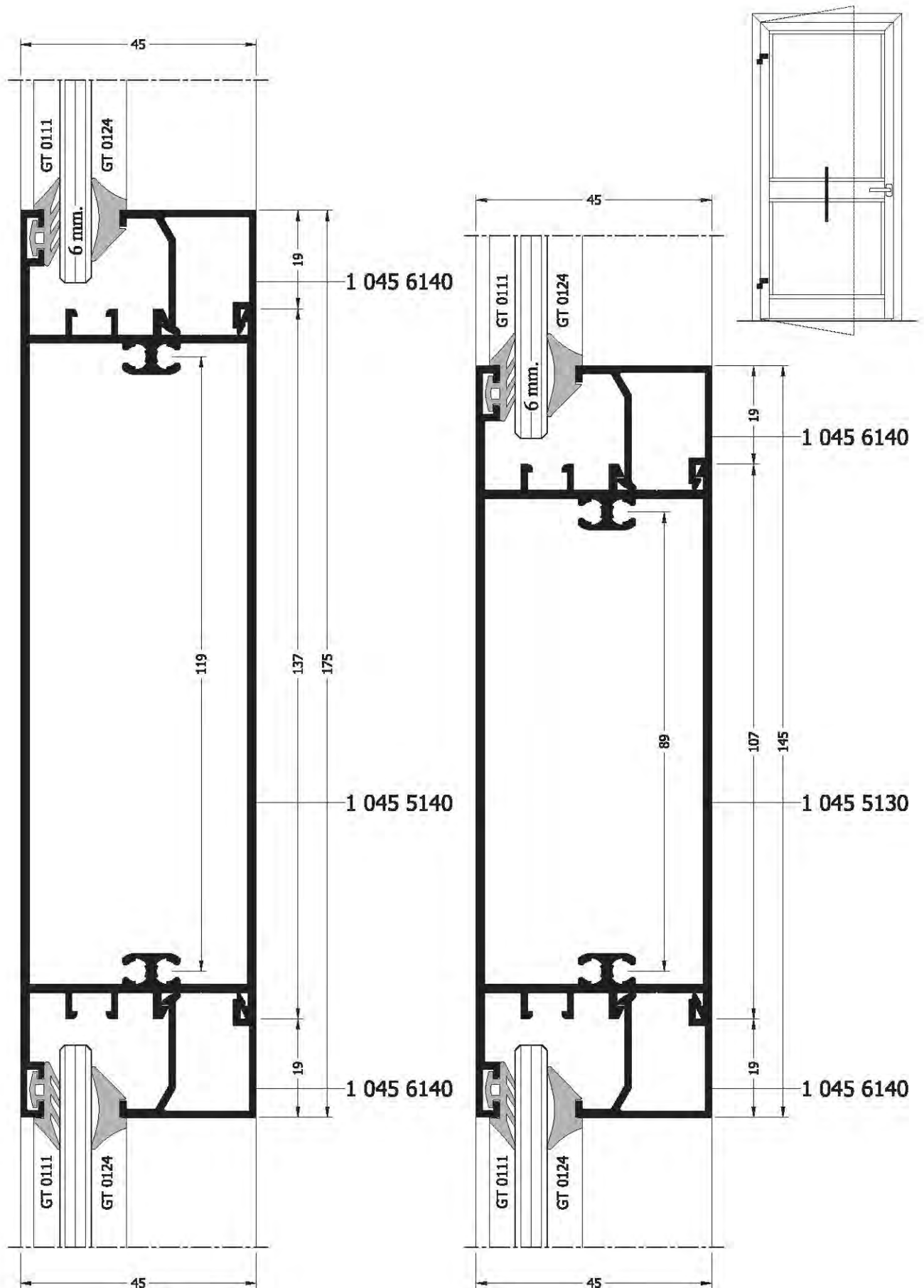


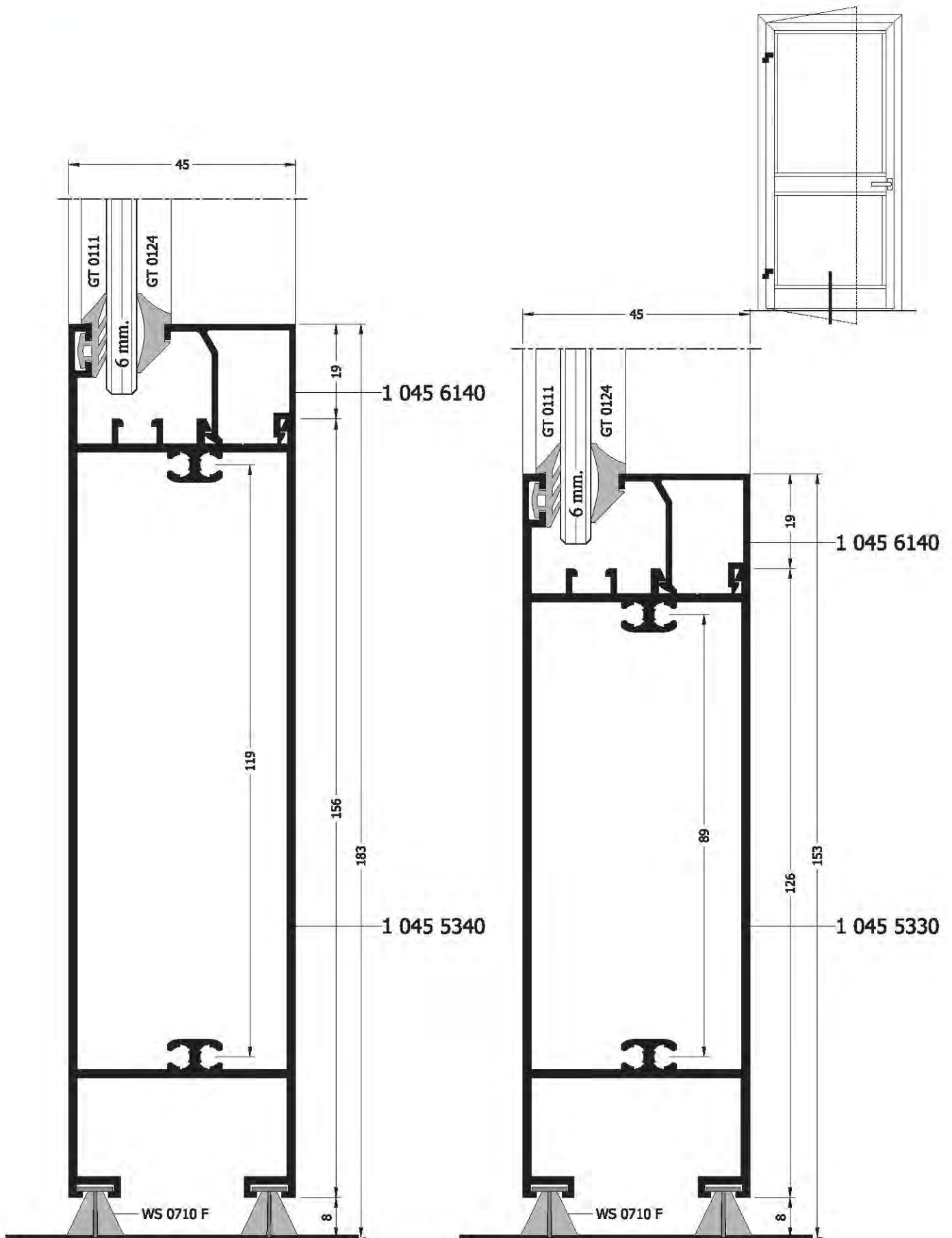


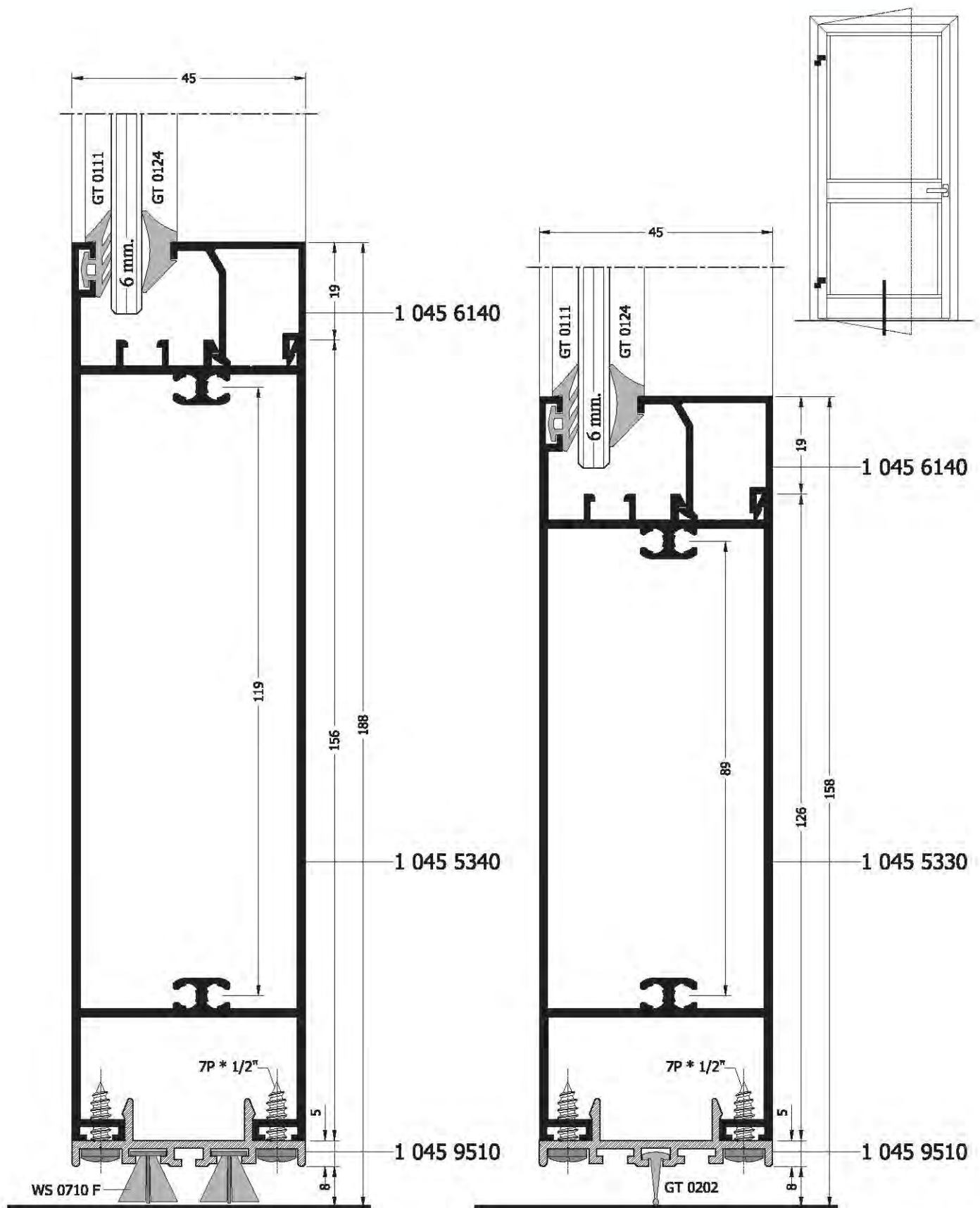
DET. A

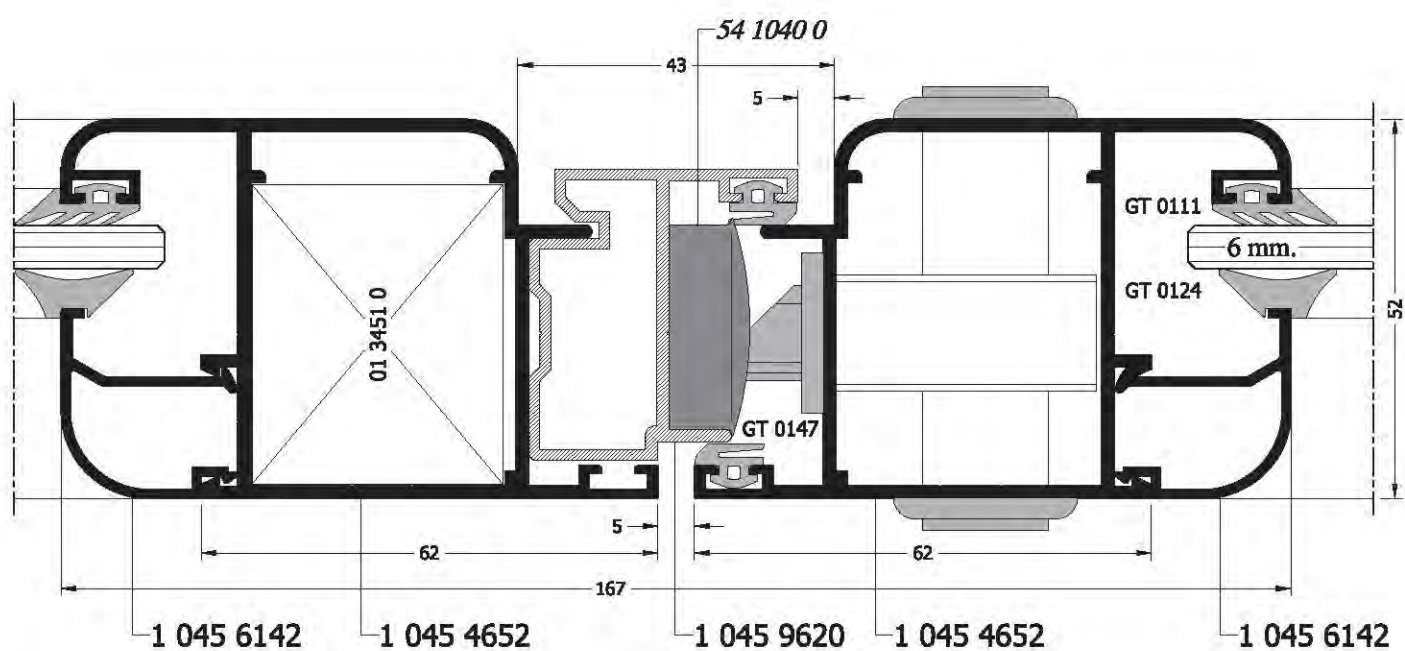
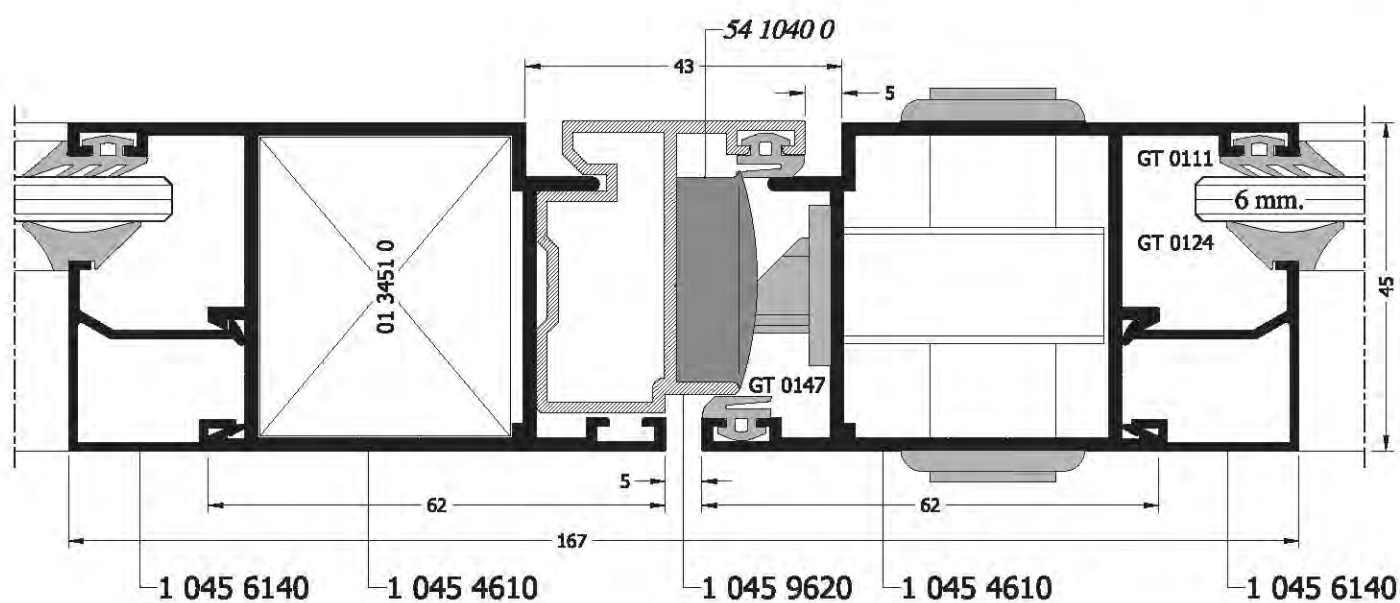
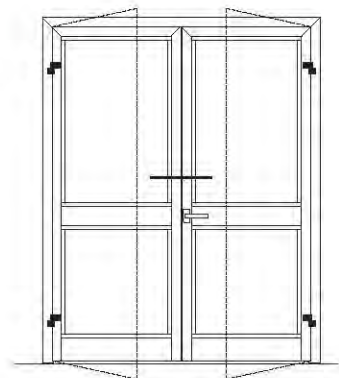


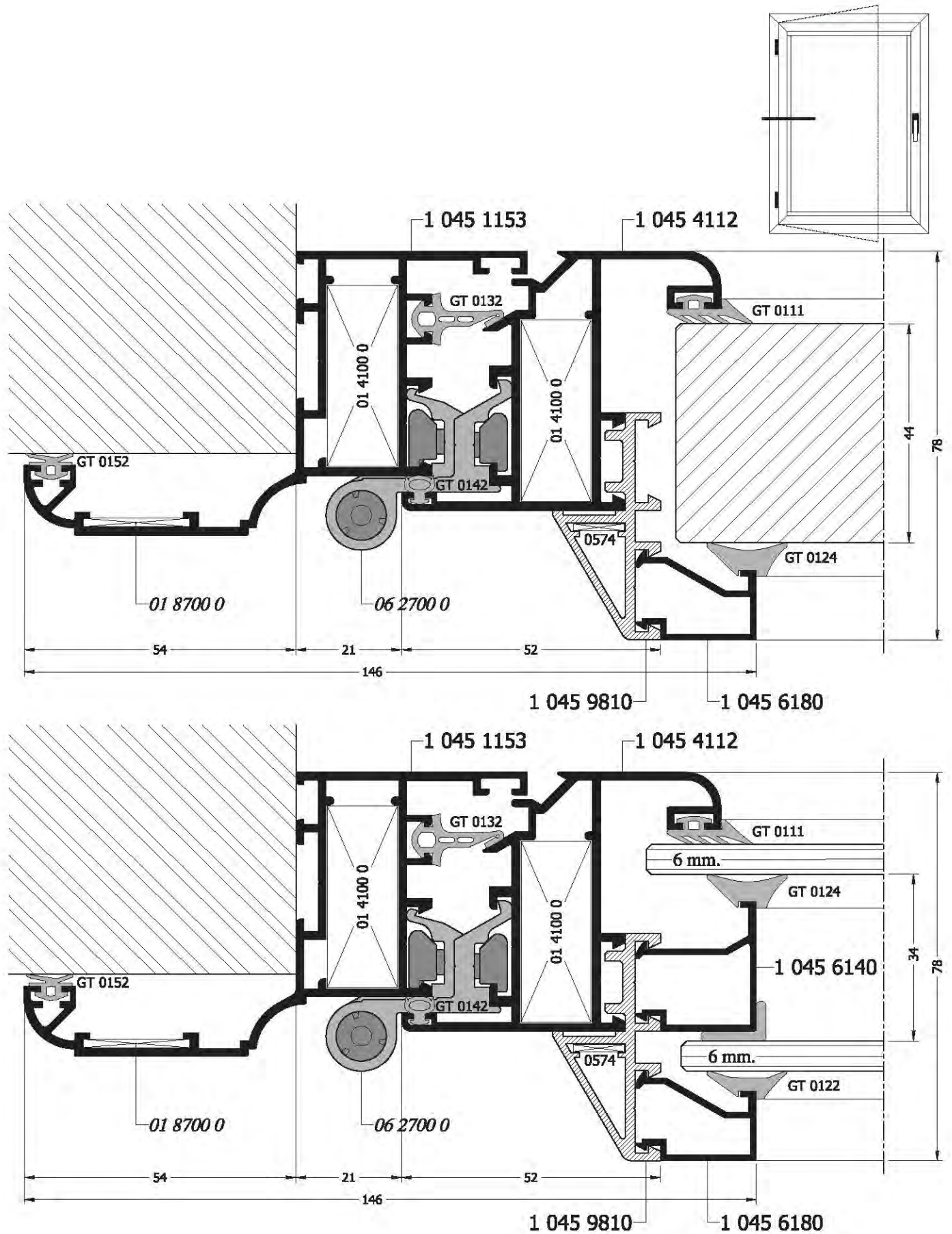
DET. B

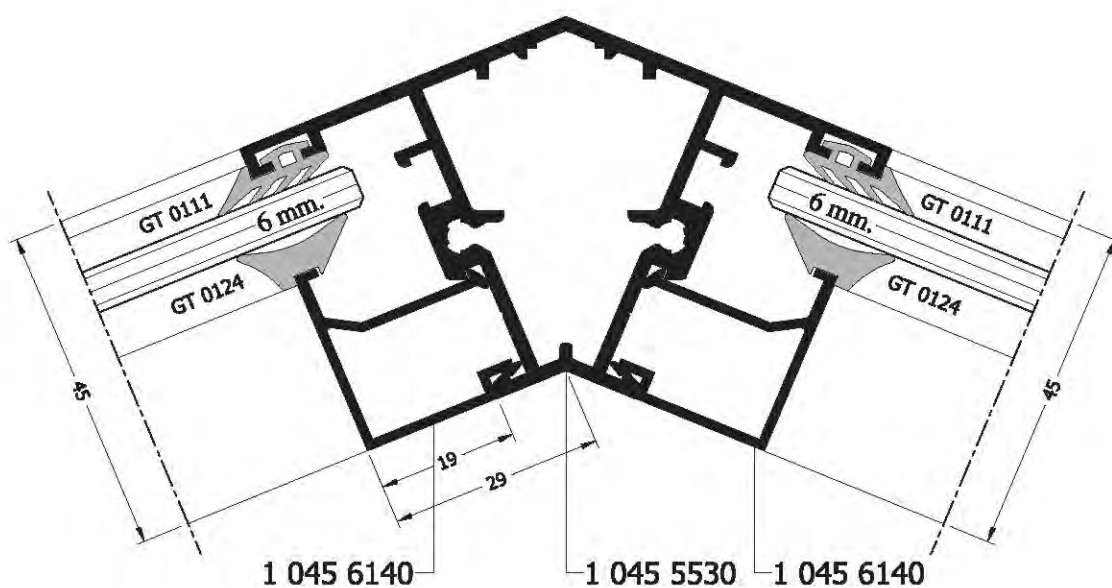
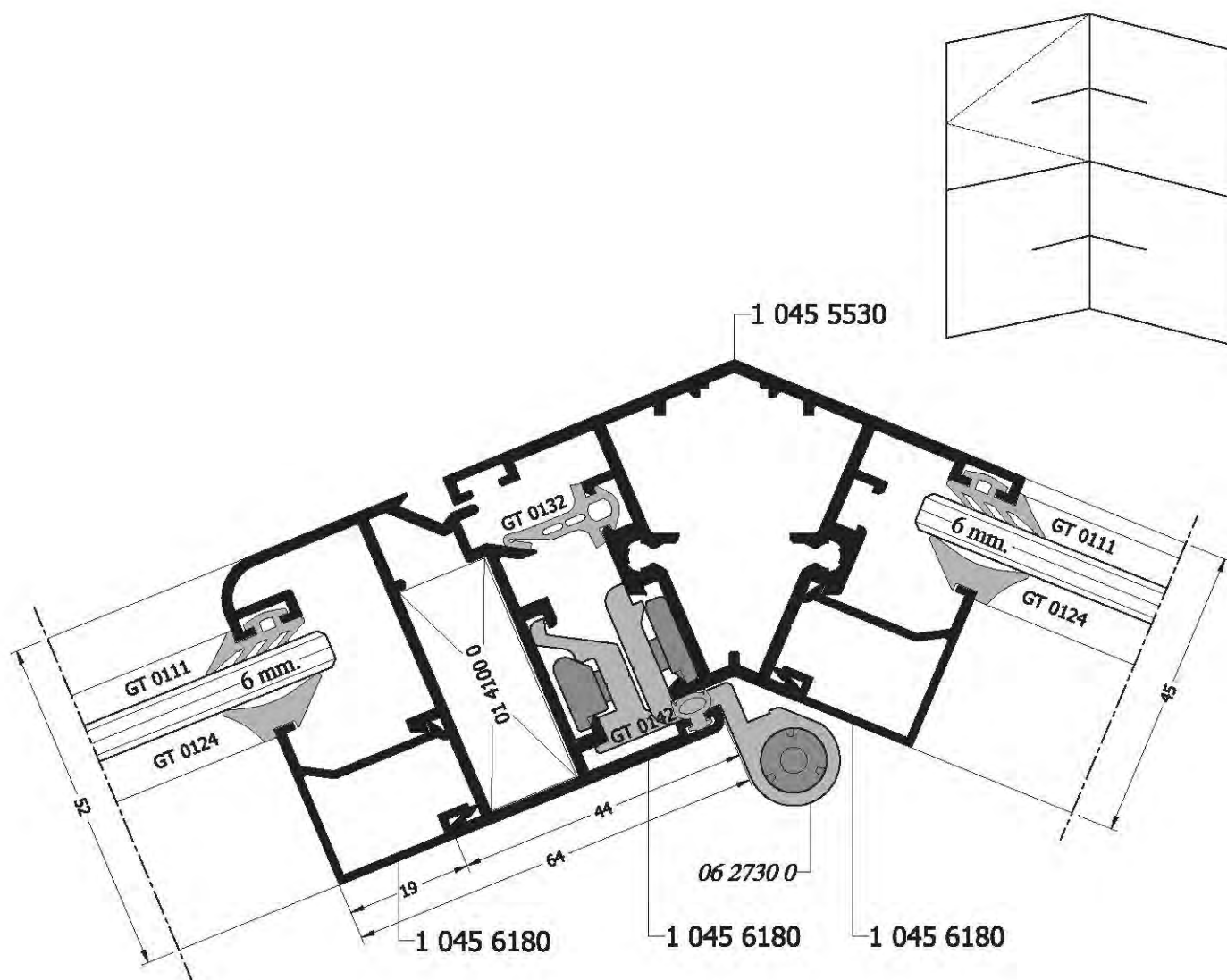


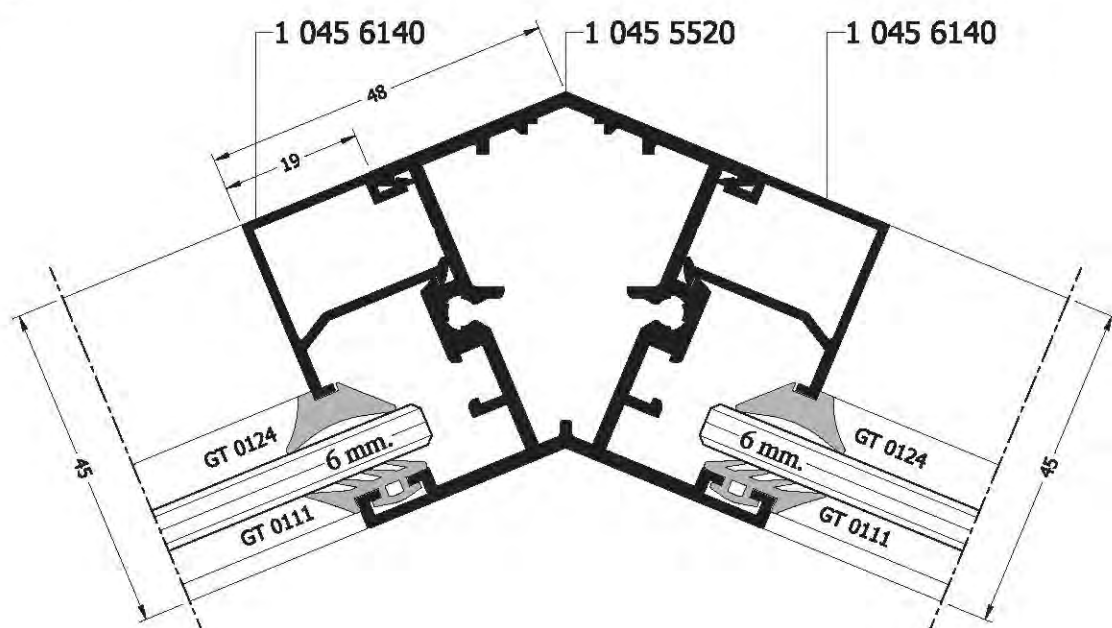
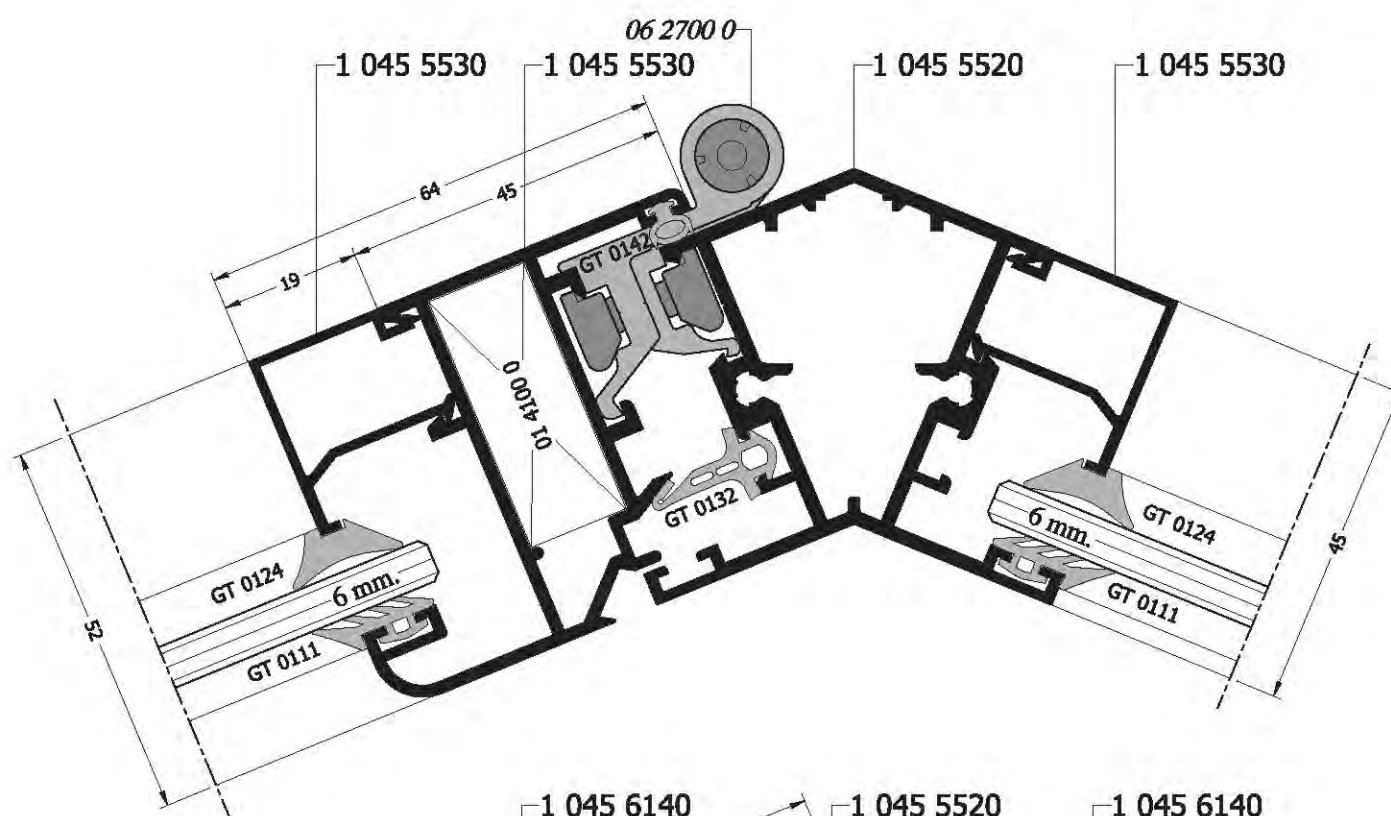
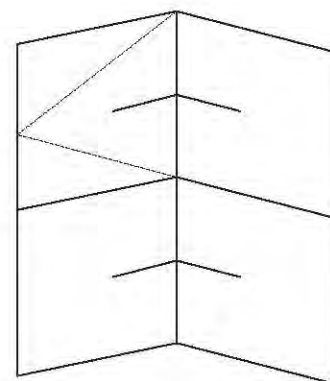


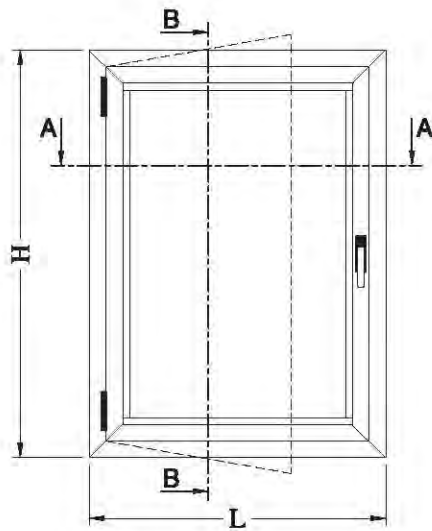








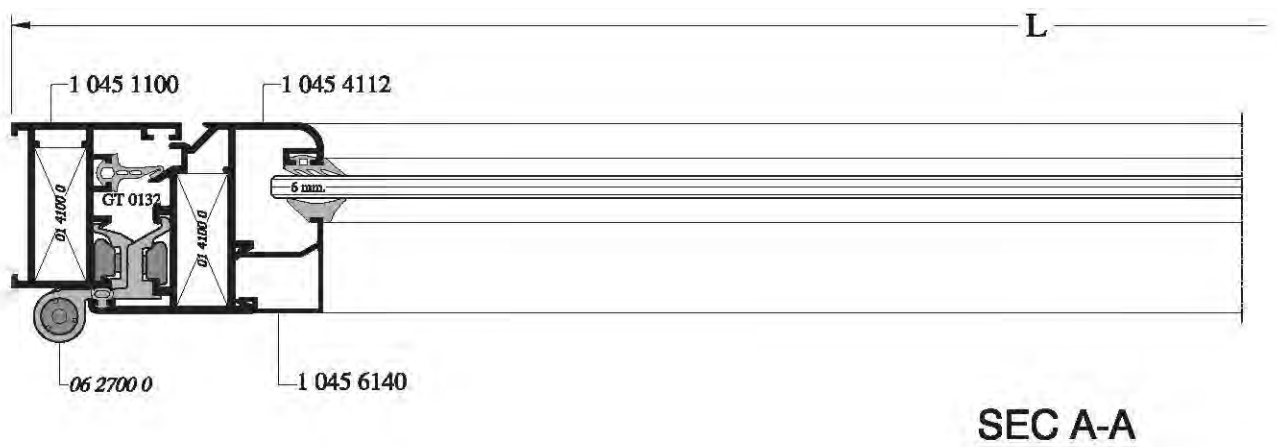




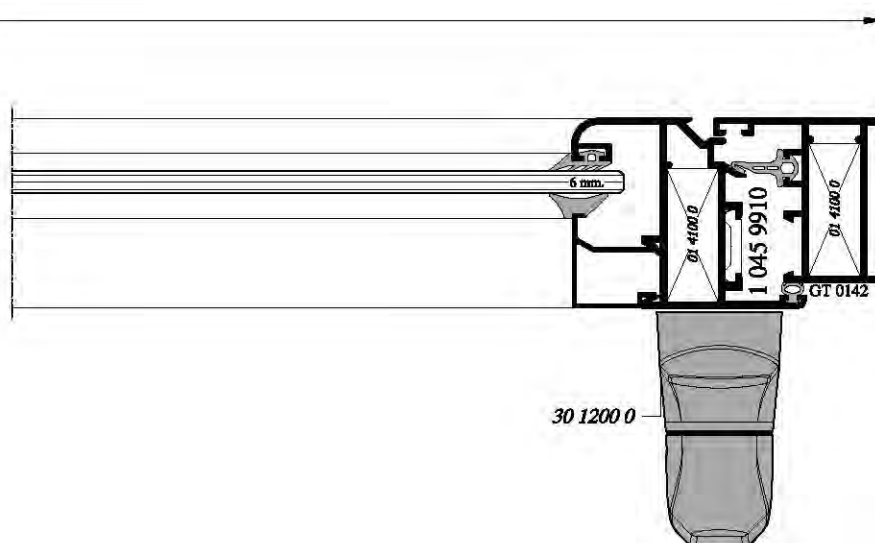
TOTAL WEIGHT	
L (m.) X 4.15 Kg.	+
H (m.) X 4.32 Kg.	

TOTAL=	Kg.

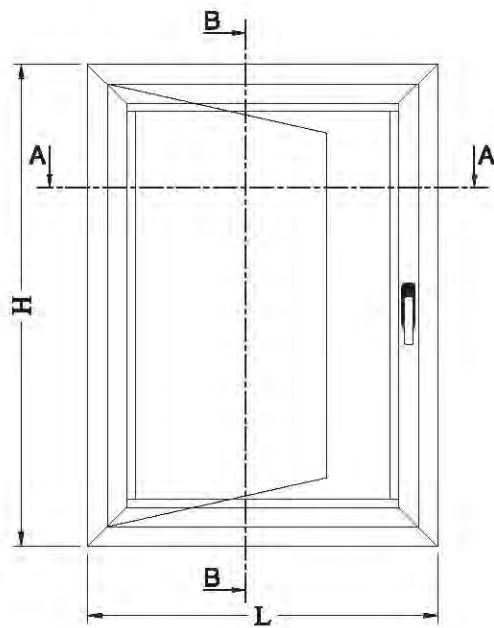
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 1100	2	L
		2	H
	1 045 4112	2	L - 42
		2	H - 42
	1 045 6140	2	L - 131
		2	H - 169
SINGLE GLASS"4-6mm"	1	L - 141	
		H - 141	
ALL DIMENSIONS IN mm.			



Technical drawing of a vertical sliding door system in cross-section. The drawing shows the door profile with a 6 mm thickness and various internal components. Dimensions include a total height 'H' and a width of 1100 mm. Callouts identify parts: 1 045 6140 (top roller), 1 045 4112 (middle roller), and 1 045 1100 (bottom roller). Other labels include GT 0132 and GT 0142.



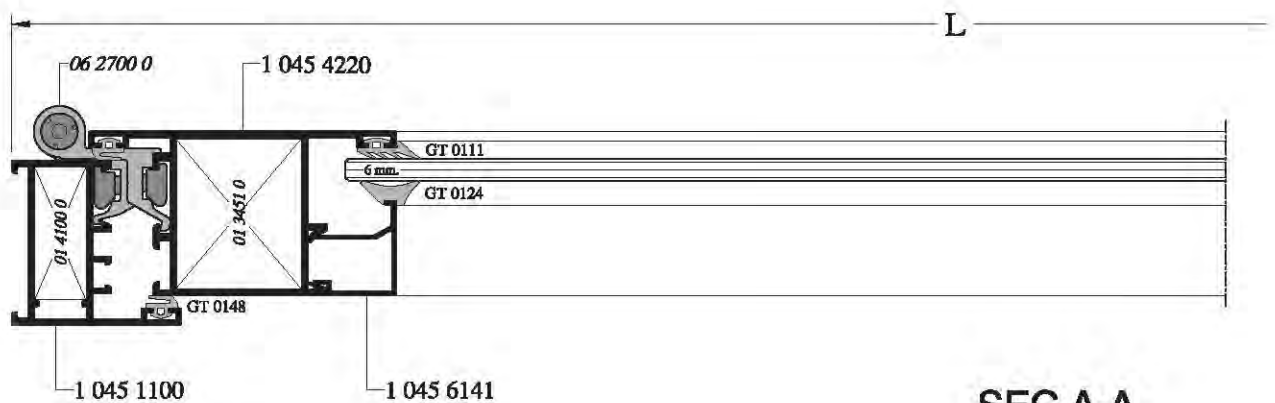
SONATA 45 105



TOTAL WEIGHT	
L (m.) X 4.31 Kg.	+
H (m.) X 4.48 Kg.	

TOTAL=	Kg.

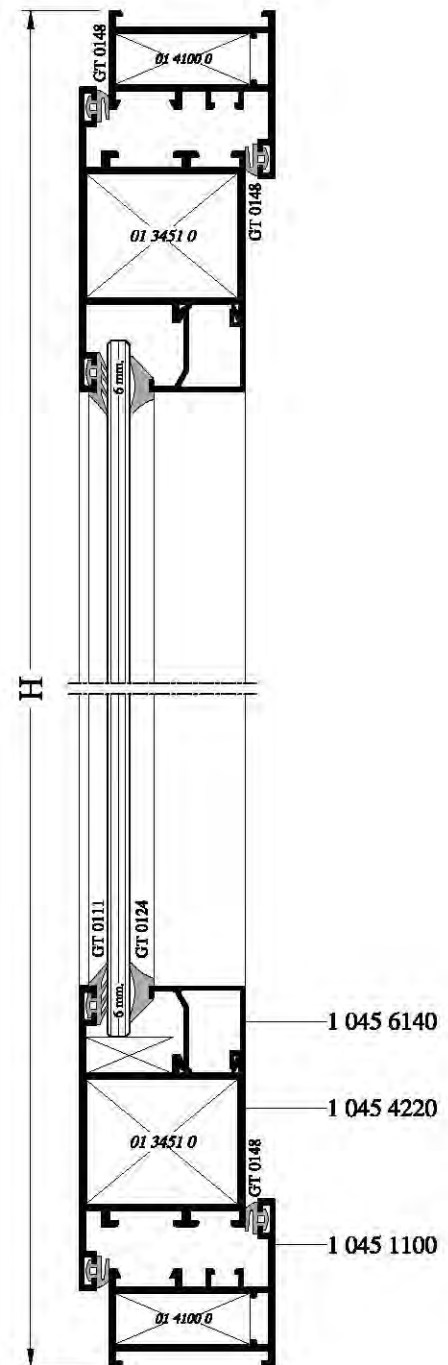
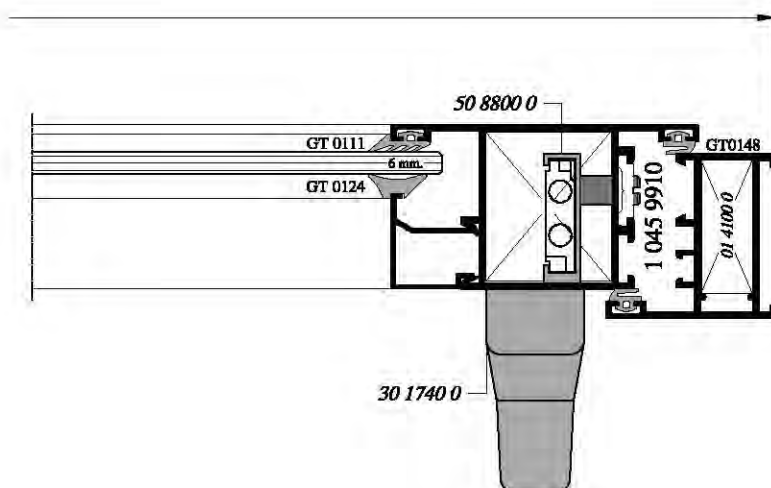
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 1100	2	L
		2	H
	1 045 4220	2	L - 42
		2	H - 42
	1 045 6140	2	L - 171
		2	H - 209
SINGLE GLASS"4-6mm"	1	L - 181	
		H - 181	
ALL DIMENSIONS IN mm.			



SEC A-A

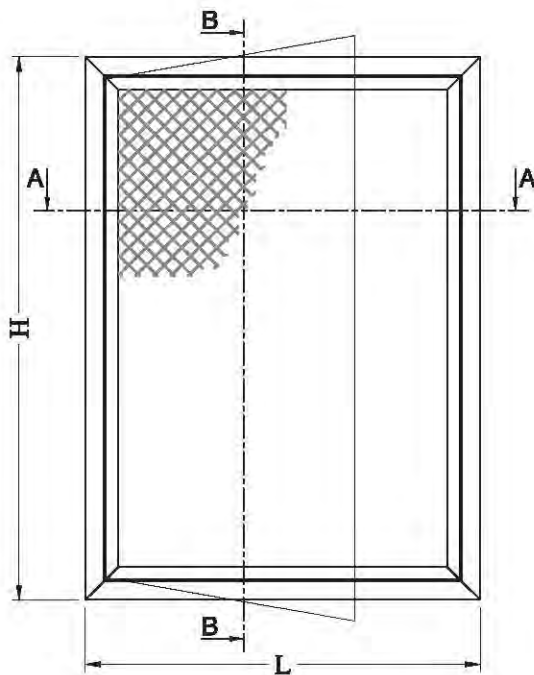


ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4100 0	4	Corner Joint
	01 3451 0	4	Corner Joint
	06 2700 0	2	Hinges
	28 1100 0	2	Drainage Cover
	50 8800 0	1	Connection Kit
	30 1740 0	1	Cremone Handle
	KIT 10451	1	Locking Kit
	GT 0111	2L+2H	Glass Gasket
	GT 0124	2L+2H	Glass Gasket
	GT 0132	2L+2H	Central Gasket
	GT 0148	2L+2H	Striker Gasket



SEC B-B

Scale 1:2



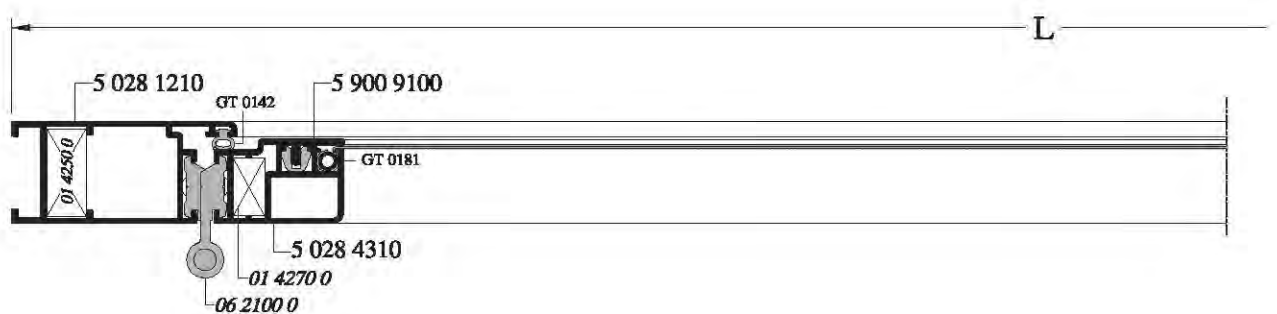
TOTAL WEIGHT

L (m.) X 2.51 Kg.
+
H (m.) X 2.51 Kg.

TOTAL= Kg.

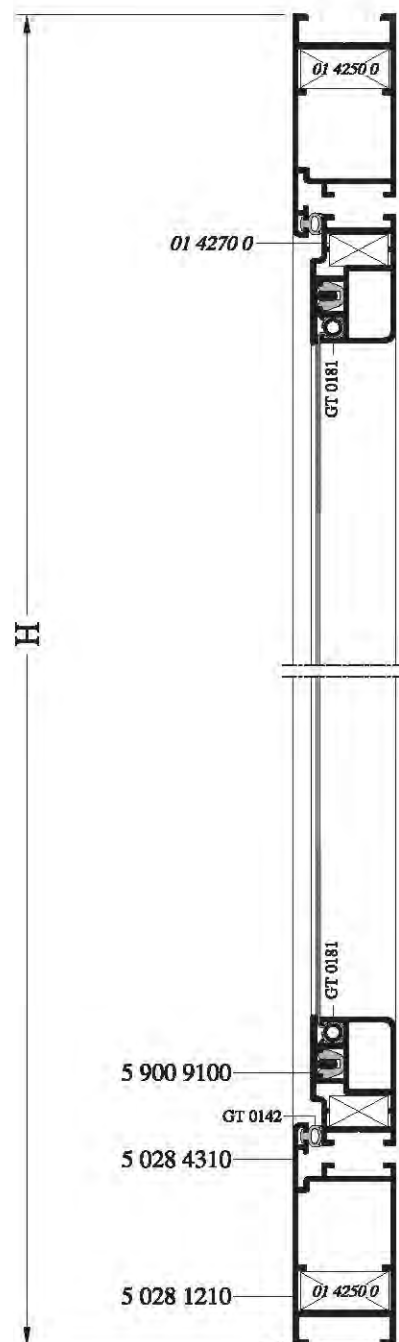
PROFILES CUTTING LIST

FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	5 028 1210	2	L
		2	H
	5 028 4310	2	L - 110
		2	H - 110
	5 900 9100	2	L - 146
		2	H - 146

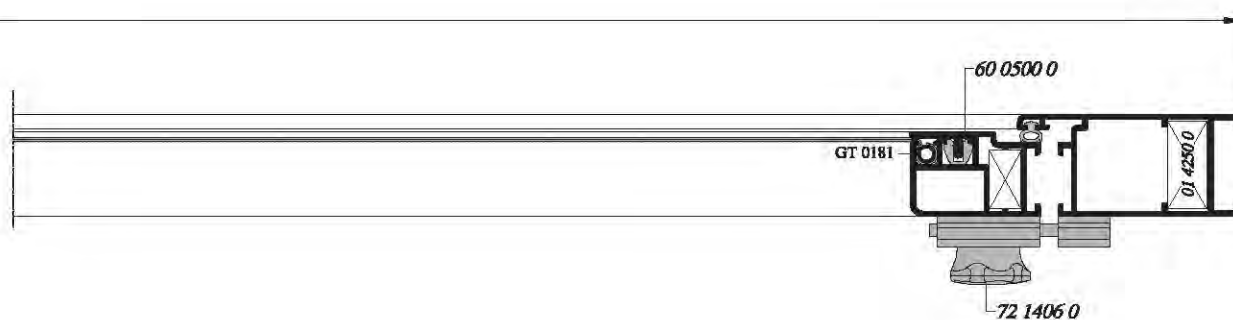


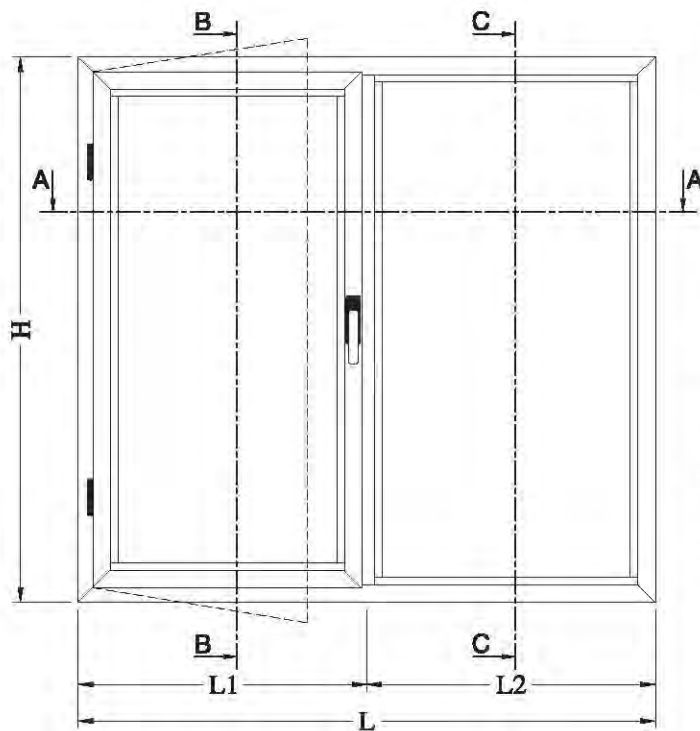


ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4250 0	4	Corner Joint
	01 4270 0	4	Corner Joint
	06 2100 0	2	Screen Hinges
	60 0500 0	$\frac{2L+2H}{0.30}$	Clip
	72 1406 0	1	Latch Closer
	GT 0142	4L+4H	Striker Gasket
	GT 0181	2L+2H	Screen Round Gasket



SEC B-B

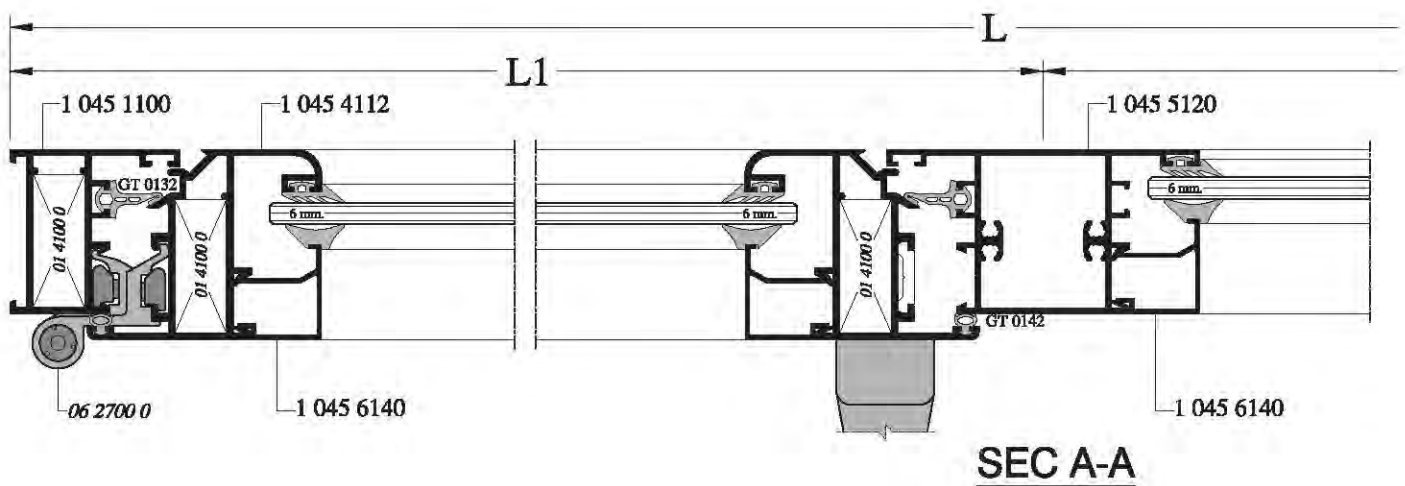




TOTAL WEIGHT	
L1 (m.) X 4.15 Kg.	+
L2 (m.) X 2.11 Kg.	
H (m.) X 6.13 Kg.	

TOTAL=	Kg.

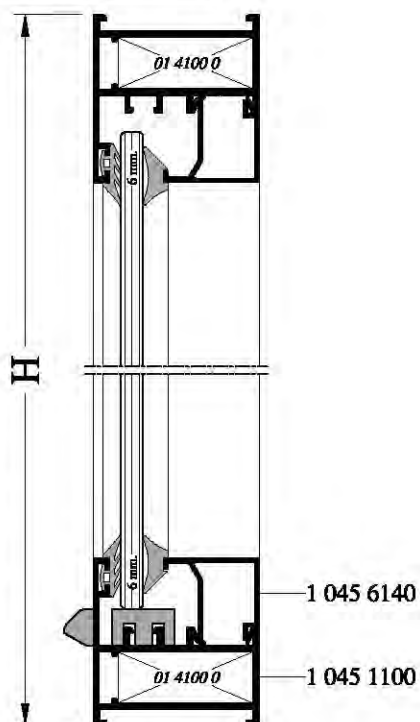
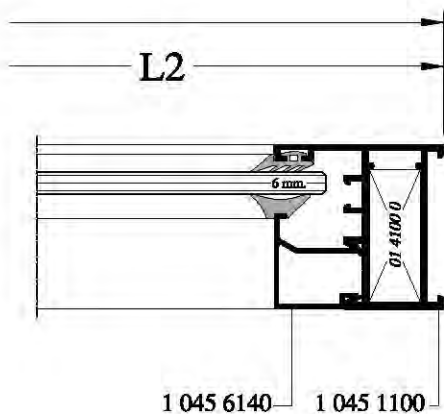
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 1100	2	L
		2	H
	1 045 4112	2	L1 - 38.5
		2	H - 42
	1 045 5120	1	H - 44
	1 045 6140	2	L1 - 127.5
		2	H - 169
		2	L2 - 50.5
		2	H - 92
SINGLE GLASS"4-6mm"		1	L1 - 137.5
			H - 141
SINGLE GLASS"4-6mm"		1	L2 - 60.5
			H - 64
ALL DIMENSIONS IN mm.			



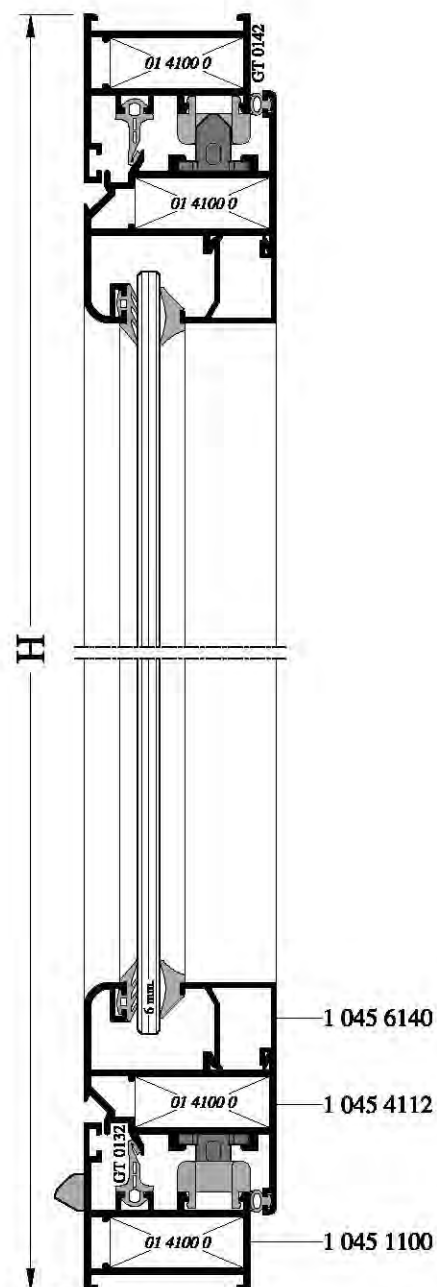


ACCESSORIES LIST

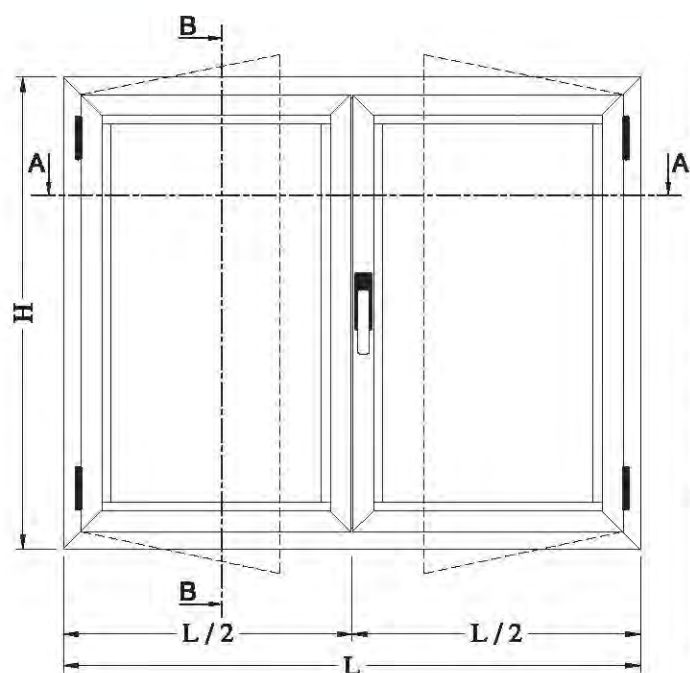
FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4100 0	8	Corner Joint
	06 2700 0	2	Hinges
	28 1100 0	2	Drainage Cover
	30 1200 0	1	Cremone Handle
	KIT 10451	1	Locking Kit
	GT 0111	2L+4H	Glass Gasket
	GT 0124	2L+4H	Glass Gasket
	GT 0132	2L1+2H	Central Gasket
	GT 0142	2L1+2H	Striker Gasket



SEC C-C

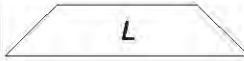
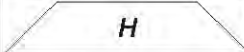
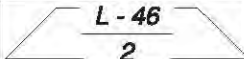
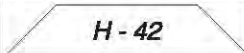
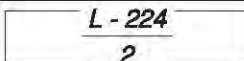
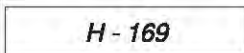
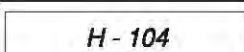
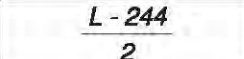
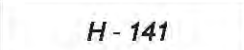


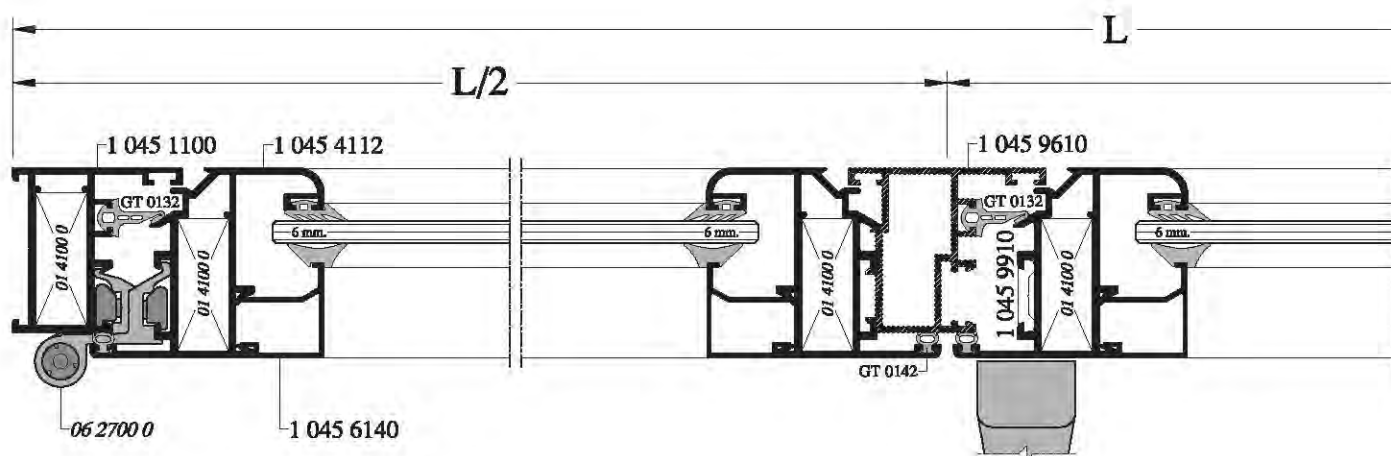
SEC B-B



TOTAL WEIGHT	
L (m.) X 4.15 Kg.	+
H (m.) X 7.59 Kg.	

TOTAL=	Kg.

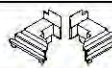
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 1100	2	
		2	
	1 045 4112	4	
		4	
	1 045 6140	4	
		4	
	1 045 9610	1	
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			

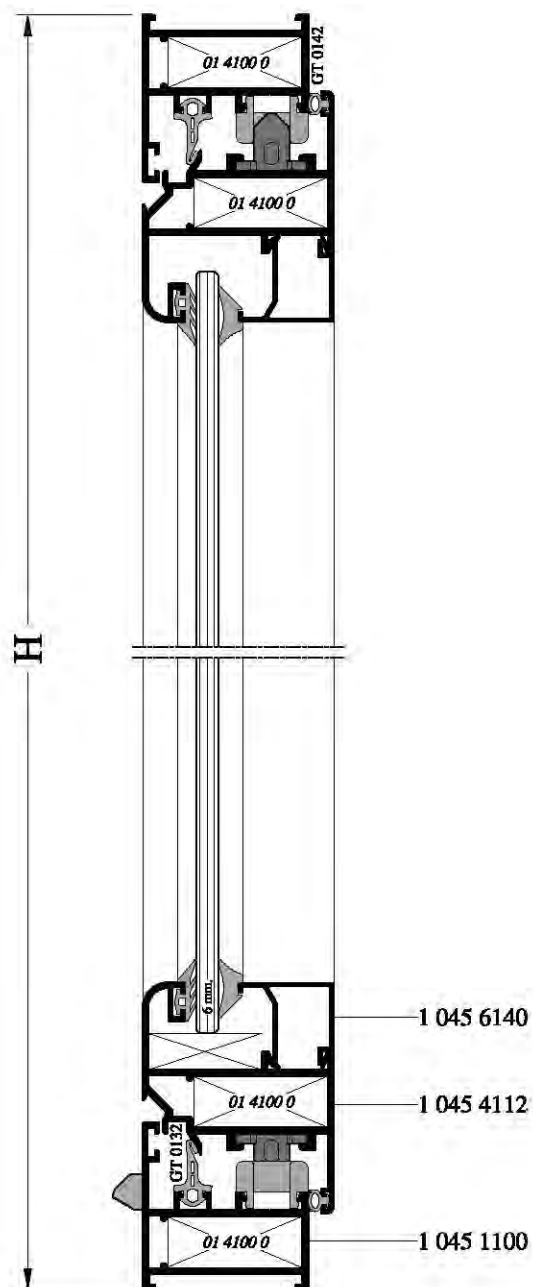
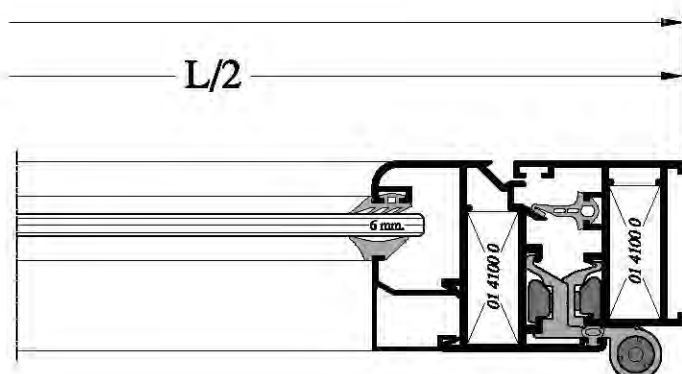


SEC A-A

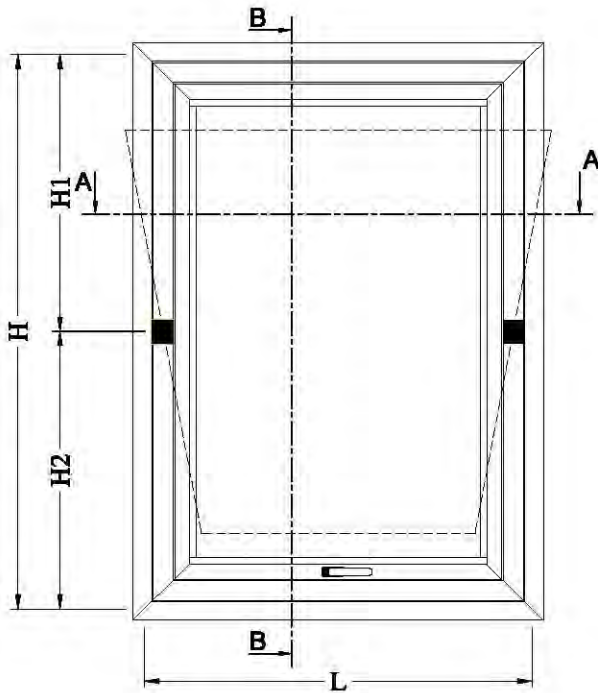


ACCESSORIES LIST

FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4100 0	12	Corner Joint
	06 2700 0	4	Hinges
	28 1100 0	2	Drainage Cover
	30 1200 0	1	Cremone Handle
	52 1450 0	1	Lever Bolt
	62 1450 0	1	Central Rabbet Plug
	KIT 10451	1	Locking Kit
	GT 0111	2L+4H	Glass Gasket
	GT 0124	2L+4H	Glass Gasket
	GT 0132	2L+3H	Central Gasket
	GT 0142	2L+4H	Striker Gasket



SEC B-B



TOTAL WEIGHT

L (m.) X 7.43 Kg.

H (m.) X 7.43 Kg.

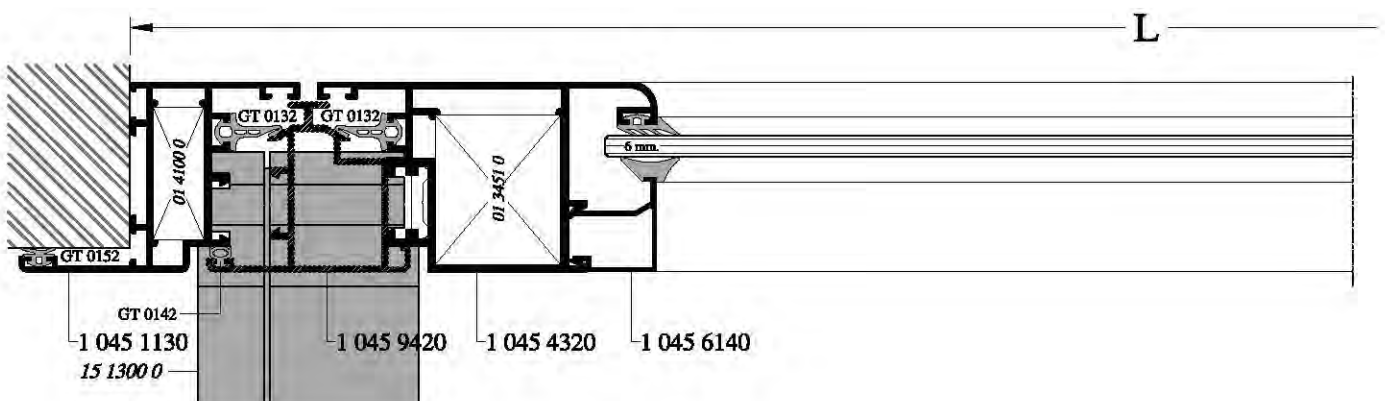
+

TOTAL= Kg.

PROFILES CUTTING LIST

FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 1131	2	$L + 60$
		2	$H + 60$
	1 045 9420	1	$L - 42$
		1	$L - 42$
		1+1	$H1 - 21 \quad R+L$
		1+1	$H2 - 21 \quad R+L$
	1 045 4320	2	$L - 102$
		2	$H - 102$
	1 045 6140	2	$L - 248$
		2	$H - 286$
SINGLE GLASS"4-6mm"		1	$L - 258$
			$H - 258$
ALL DIMENSIONS IN mm.			

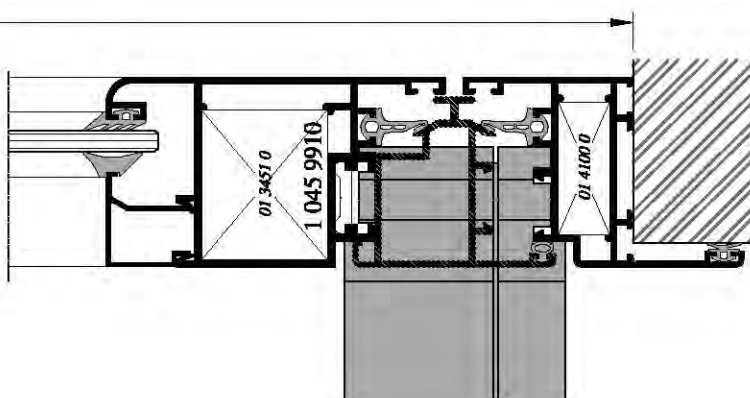
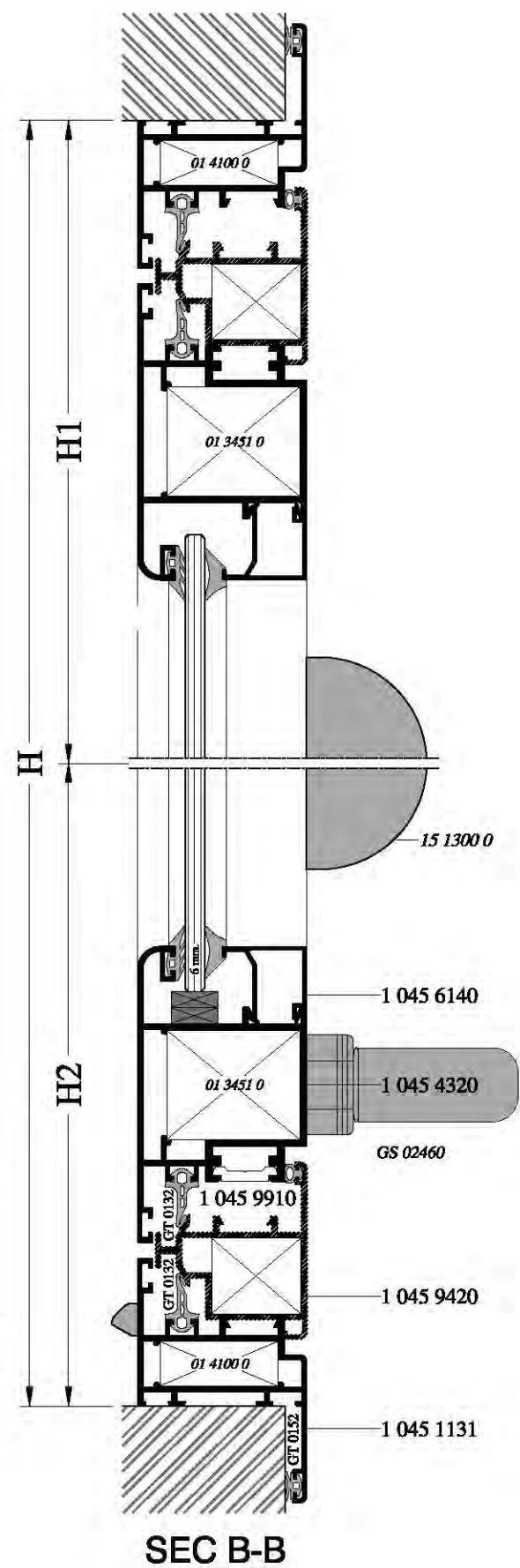
ALL DIMENSIONS IN mm.

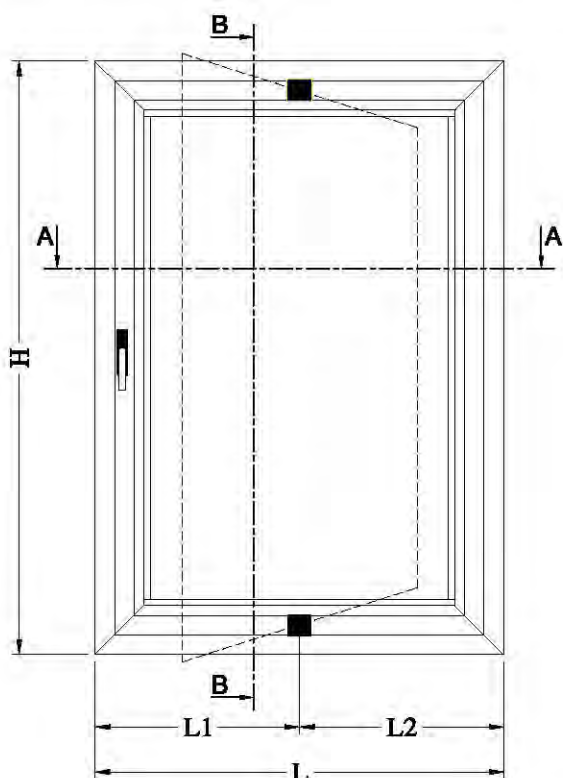


SEC A-A



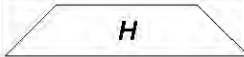
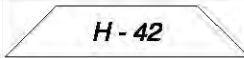
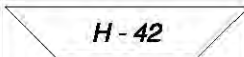
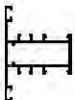
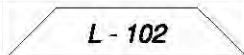
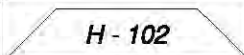
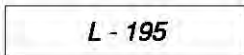
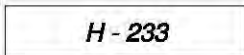
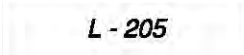
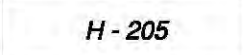
ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4100 0	4	Corner Joint
	01 3451 0	4	Corner Joint
	15 1300 0	1	PIVOT SET
	28 1100 0	2	Drainage Cover
	KIT 10451	1	Locking Kit
	GS 02460	1	Handle
	GS 01020	1	Locking Set
	GT 0111	2L+2H	Glass Gasket
	GT 0124	2L+2H	Glass Gasket
	GT 0132	4L+4H	Central Gasket
	GT 0142	2L+2H	Striker Gasket
	GT 0152	2L+2H	Striker Gasket

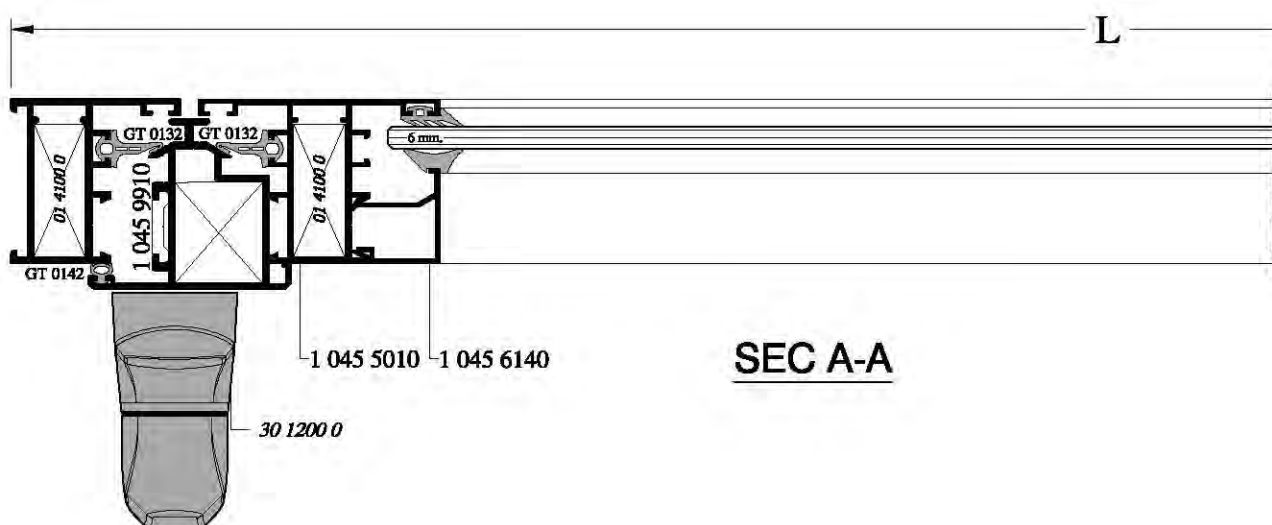




TOTAL WEIGHT	
L (m.) X 5.71 Kg.	+
H (m.) X 5.88 Kg.	

TOTAL=	Kg.

PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 1100	2	 L
		2	 H
	1 045 9410	1+1	 L1 - 21 R+L
		1+1	 L2 - 21 R+L
		1	 H - 42
		1	 H - 42
	1 045 5010	2	 L - 102
		2	 H - 102
	1 045 6140	2	 L - 195
		2	 H - 233
SINGLE GLASS"4-6mm"		1	 L - 205
			 H - 205
ALL DIMENSIONS IN mm.			

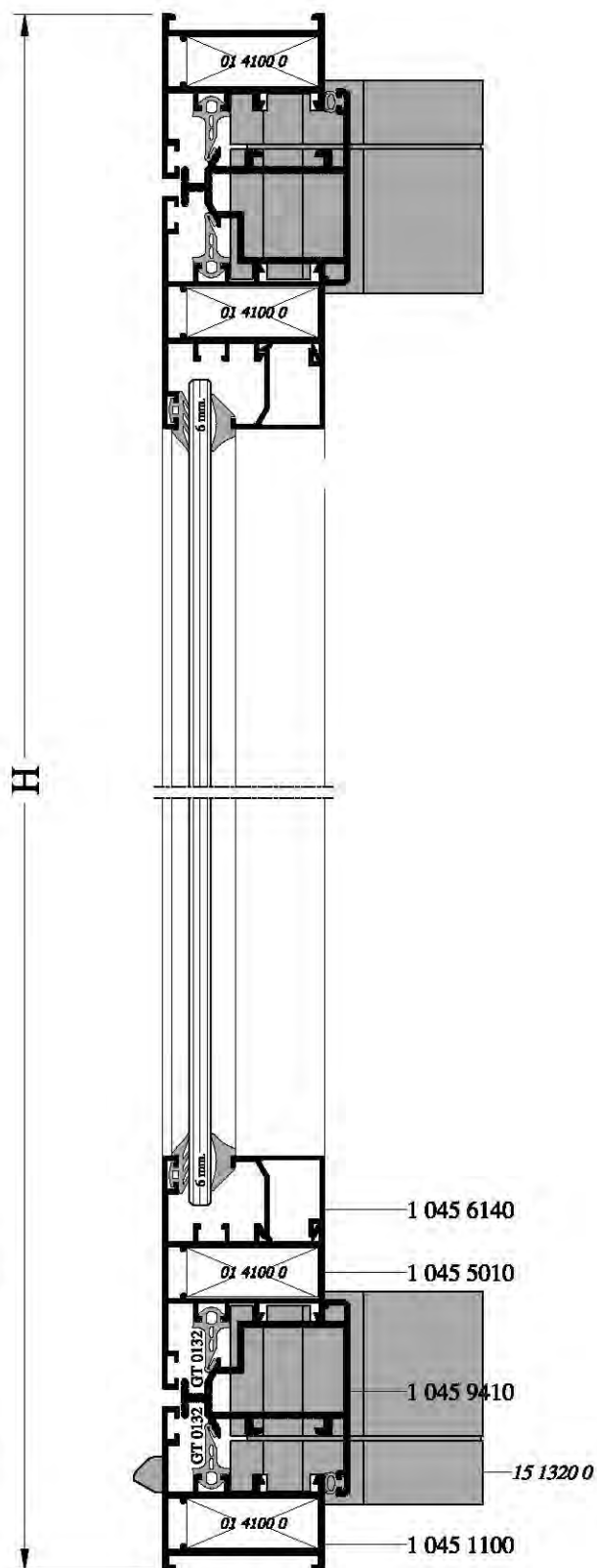
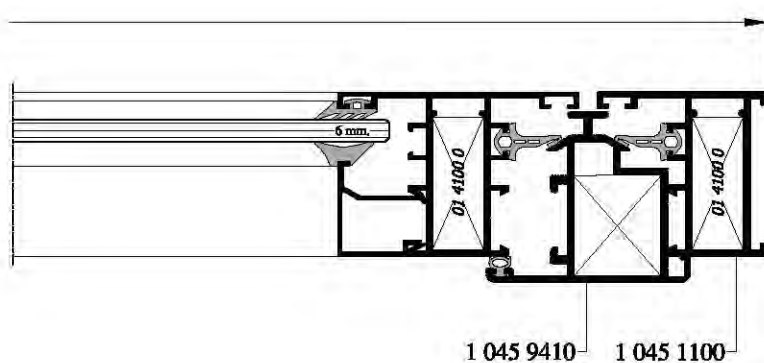


SEC A-A

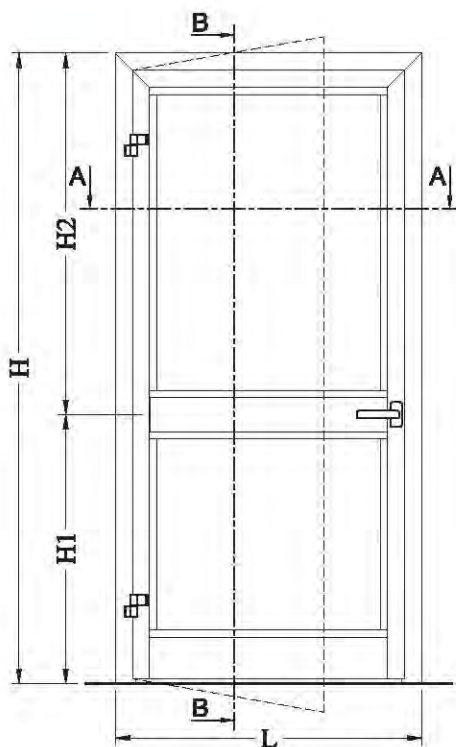


ACCESSORIES LIST

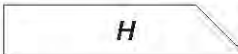
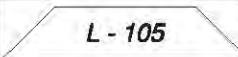
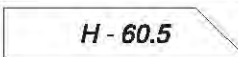
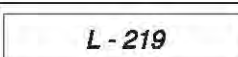
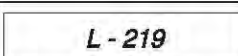
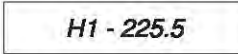
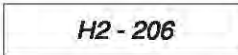
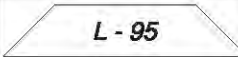
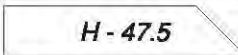
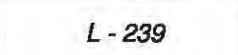
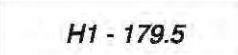
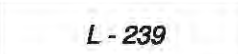
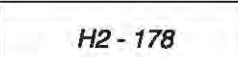
FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 4100 0	8	Corner Joint
	15 1320 0	1	PIVOT SET
	28 1100 0	2	Drainage Cover
	30 1200 0	1	Cremone Handle
	KIT 10451	1	Locking Kit
	GT 0111	2L+2H	Glass Gasket
	GT 0124	2L+2H	Glass Gasket
	GT 0132	4L+4H	Central Gasket
	GT 0142	2L+2H	Striker Gasket

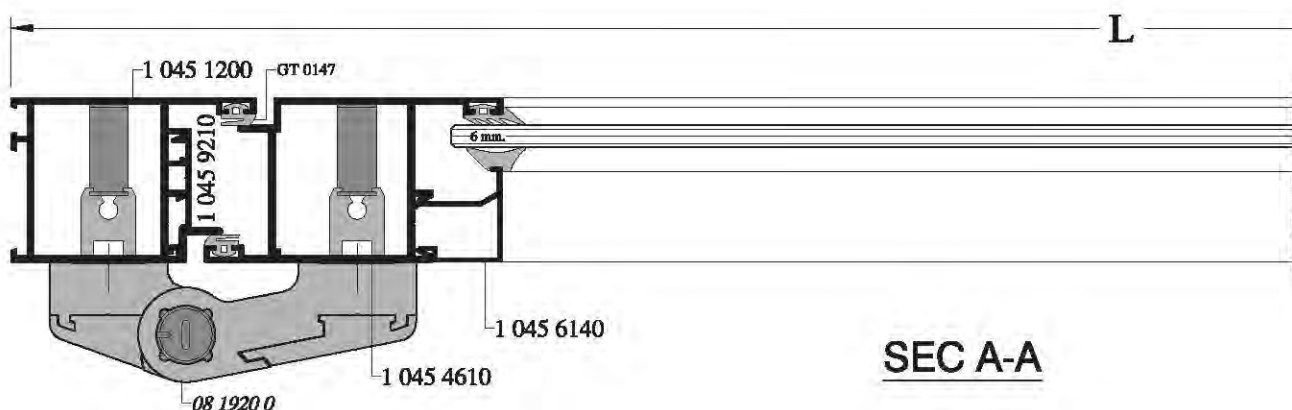


SEC B-B



TOTAL WEIGHT	
L (m.) X 7.49 Kg.	+
H1 (m.)X 5.36 Kg.	
H2 (m.)X 5.36 Kg.	
TOTAL=	Kg.

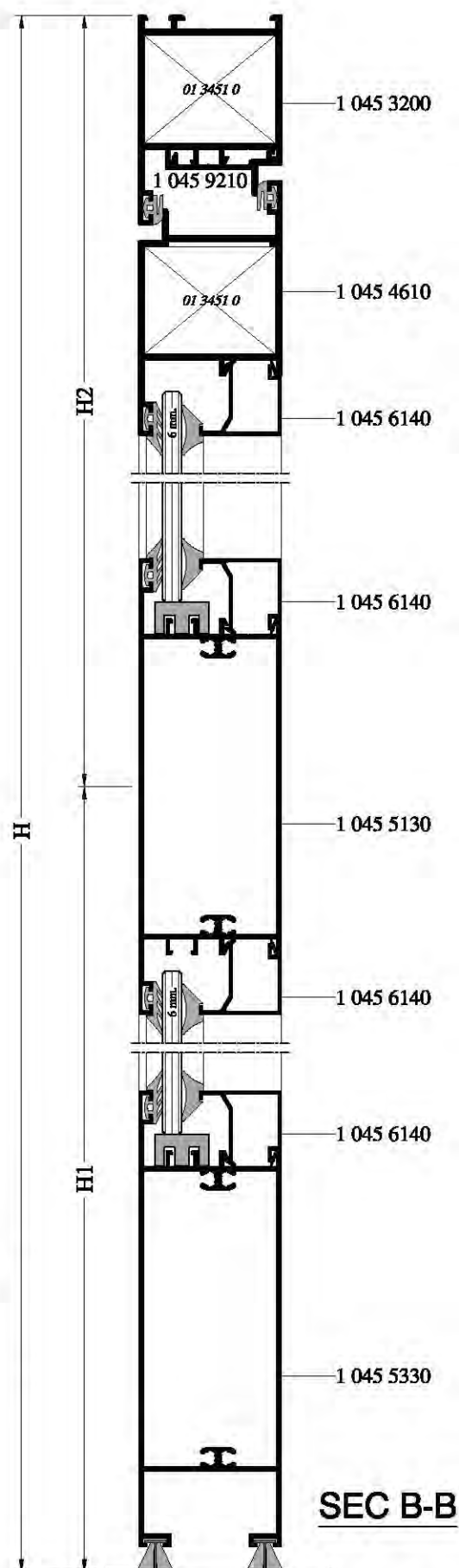
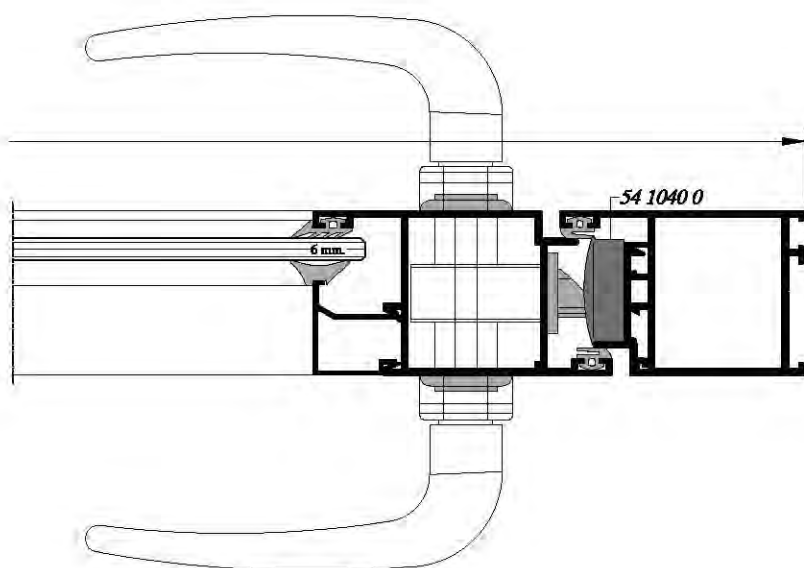
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 1200	1	
		2	
	1 045 4610	1	
		2	
	1 045 5130	1	
	1 045 5330	1	
	1 045 6140	4	
		2	
		2	
	1 045 9210	1	
		2	
SINGLE GLASS"4-6mm"		1	
			
SINGLE GLASS"4-6mm"		1	
			
ALL DIMENSIONS IN mm.			

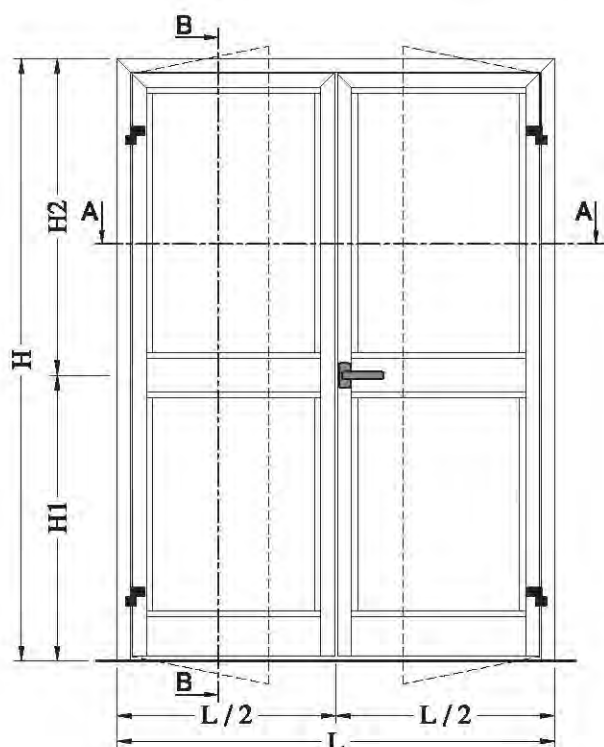




ACCESSORIES LIST

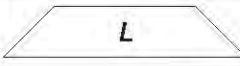
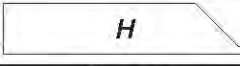
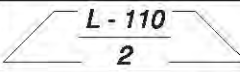
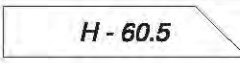
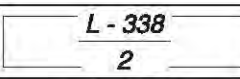
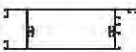
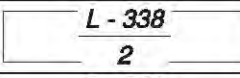
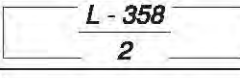
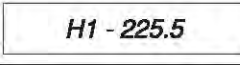
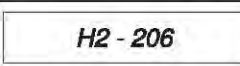
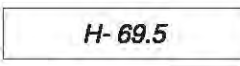
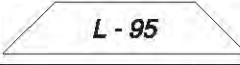
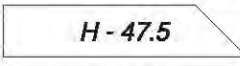
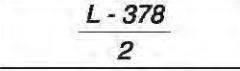
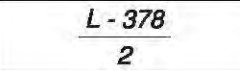
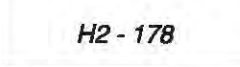
FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 3451 0	4	Corner Joint
	08 1920 0	2	Hinges
	36 1241 0	1	Pair Of Door Handle
	54 1040 0	1	Striker
	WK102.30.10	1	Lock
	GT 0111	4L+2H	Glass Gasket
	GT 0124	4L+2H	Glass Gasket
	GT 0147	2L+4H	Striker Gasket
	WS 7*10 R	2L	Weather Strip

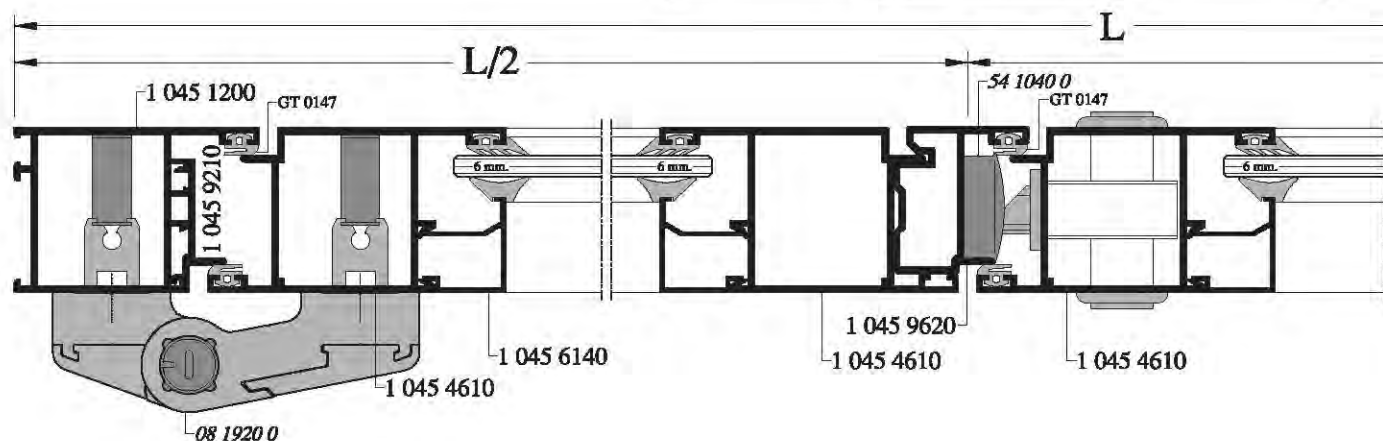




TOTAL WEIGHT	
L (m.) X 7.49 Kg.	+
H1 (m.)X 8.81 Kg.	
H2 (m.)X 8.81 Kg.	
TOTAL =	Kg.

PROFILES CUTTING LIST

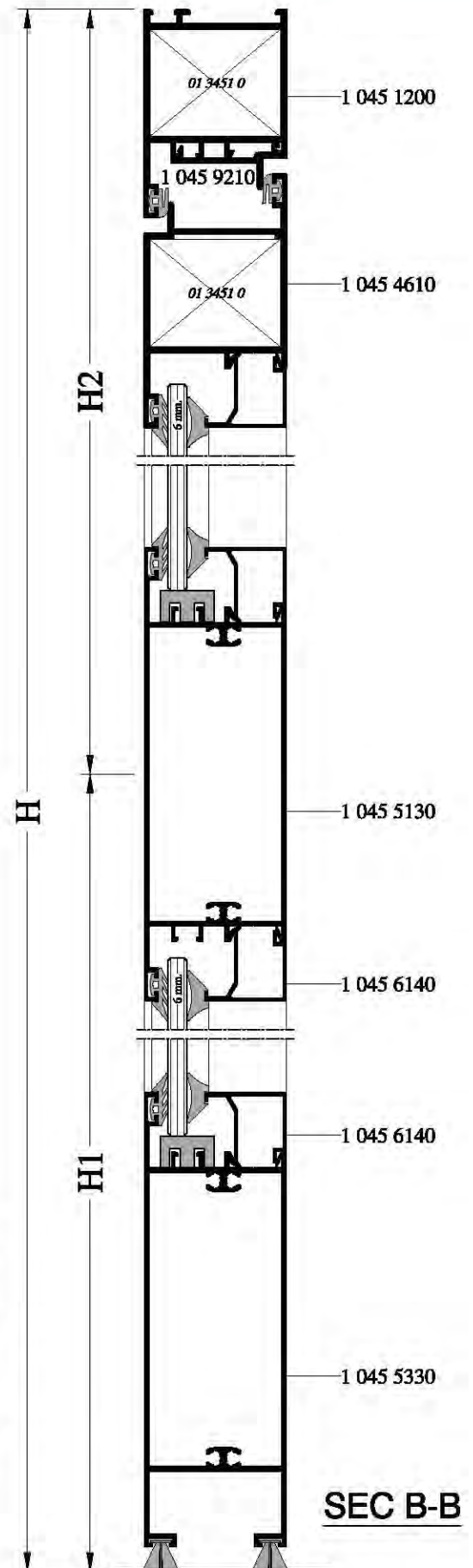
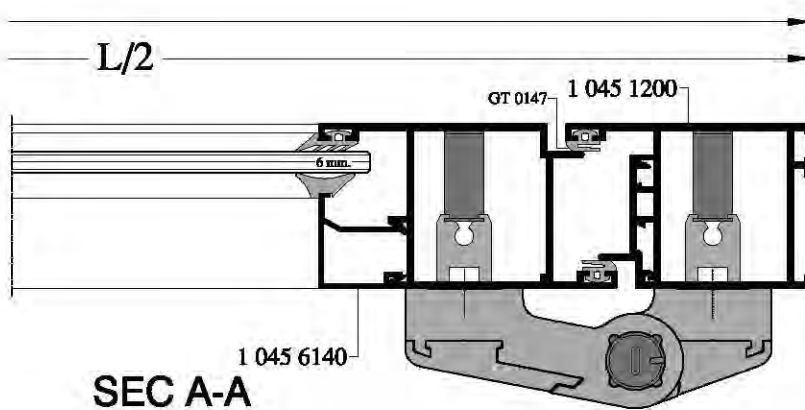
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 1200	1	
		2	
	1 045 4610	2	
		4	
	1 045 5130	2	
	1 045 5330	2	
	1 045 6140	8	
		4	
		4	
	1 045 9620	1	
	1 045 9210	1	
		2	
SINGLE GLASS"4-6mm"		2	
			
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			

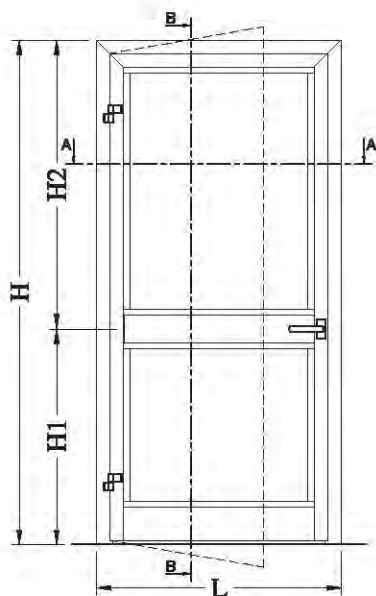




ACCESSORIES LIST

FIGURE	ACC. NO	QTY.	DESCRIPTION
	01 3451 0	6	Corner Joint
	08 1920 0	4	Hinges
	36 1241 0	1	Pair Of Door Handle
	52 5350 0	2	Lever Bolt
	54 1040 0	1	Striker
	62 1470 0	1	Central Rabbet Plug
	WK102.30.10	1	Lock
	GT 0111	4L+4H	Glass Gasket
	GT 0124	4L+4H	Glass Gasket
	GT 0147	2L+6H	Striker Gasket
	WS 7*10 R	2L	Weather Strip

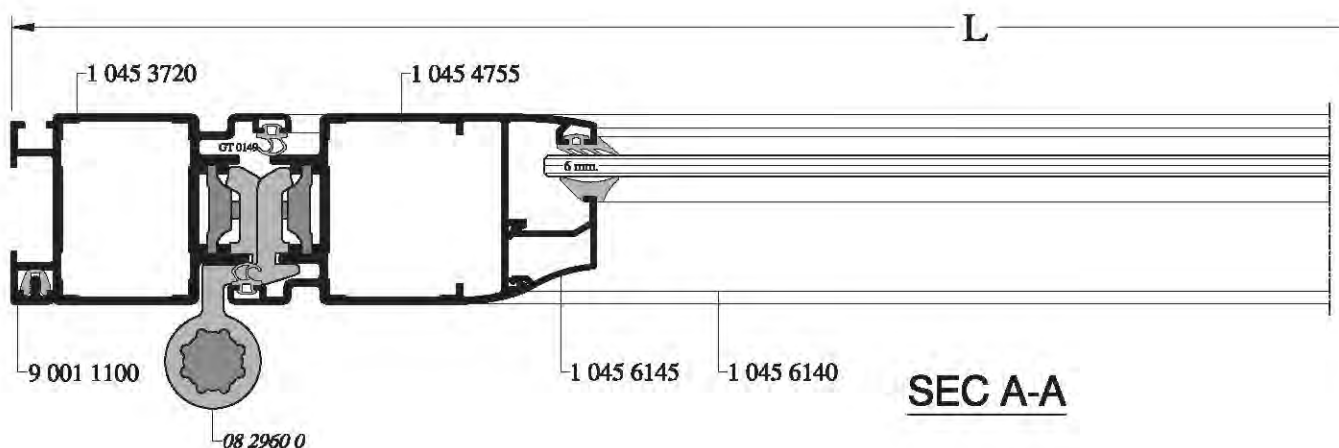




TOTAL WEIGHT	
L (m.) X 8.21 Kg.	+
H1 (m.) X 6.80 Kg.	+
H2 (m.) X 6.80 Kg.	+
TOTAL = Kg.	

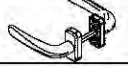
PROFILES CUTTING LIST

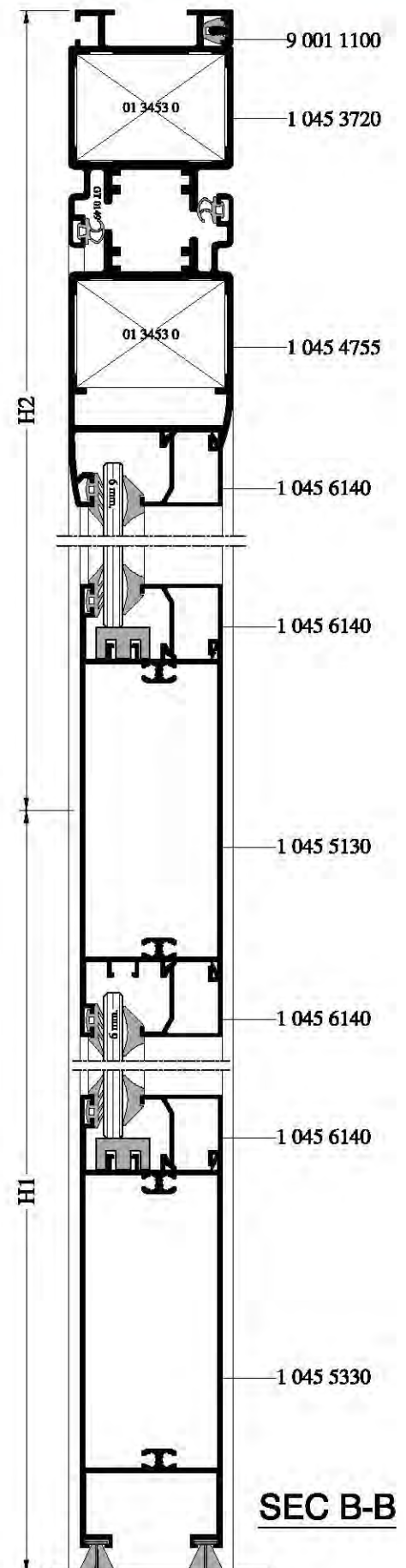
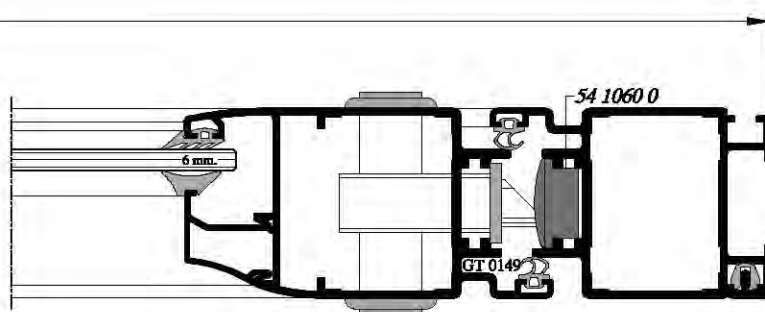
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 3720	1	L
		2	H
	1 045 4755	1	L - 118
		2	H - 67
	1 045 5130	1	L - 270
	1 045 5330	1	L - 270
	1 045 6140	4	L - 280
	1 045 6145	2	H1 - 225.5
		2	H2 - 231.5
	9 001 1100	1	L
		2	H
SINGLE GLASS"4-6mm"	1	1	L - 290
			H1 - 198
SINGLE GLASS"4-6mm"	1	1	L - 290
			H2 - 203.5
ALL DIMENSIONS IN mm.			

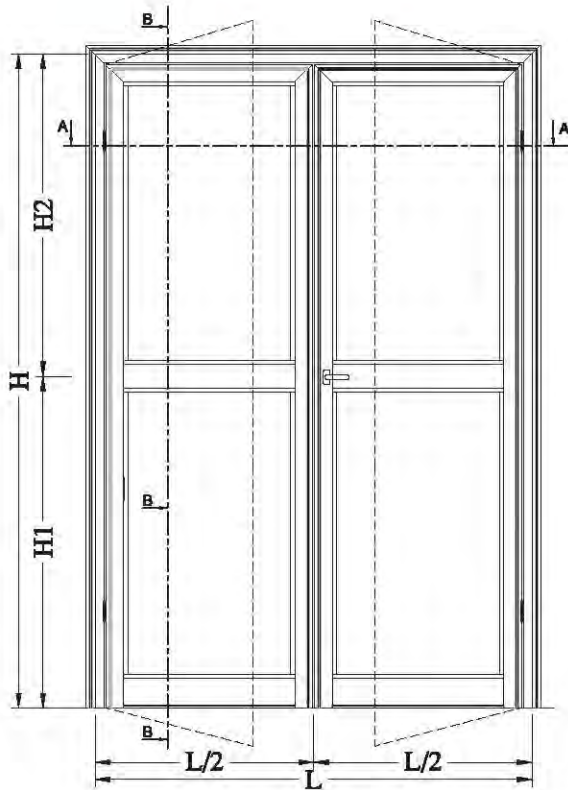




ACCESSORIES LIST

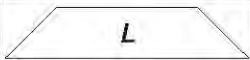
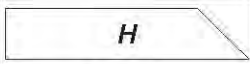
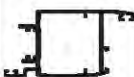
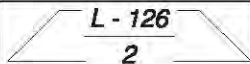
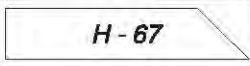
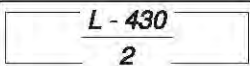
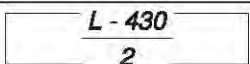
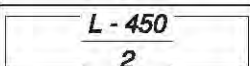
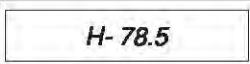
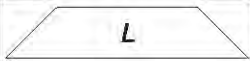
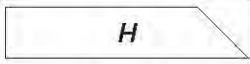
FIGURE	ACC. NO	QTY.	DESCRIPTION
	08 2960 0	2	Hinges
	1 3451 0	4	Corner Joint
	36 1241 0	1	Pair Of Door Handle
	WK102.30.10	1	Lock
	54 1060 0	1	Striker
	GT 0111	4L+2H	Glass Gasket
	GT 0124	4L+2H	Glass Gasket
	GT 0149	2L+4H	Striker Gasket
	WS 7*10 R	2L	Weather Strip

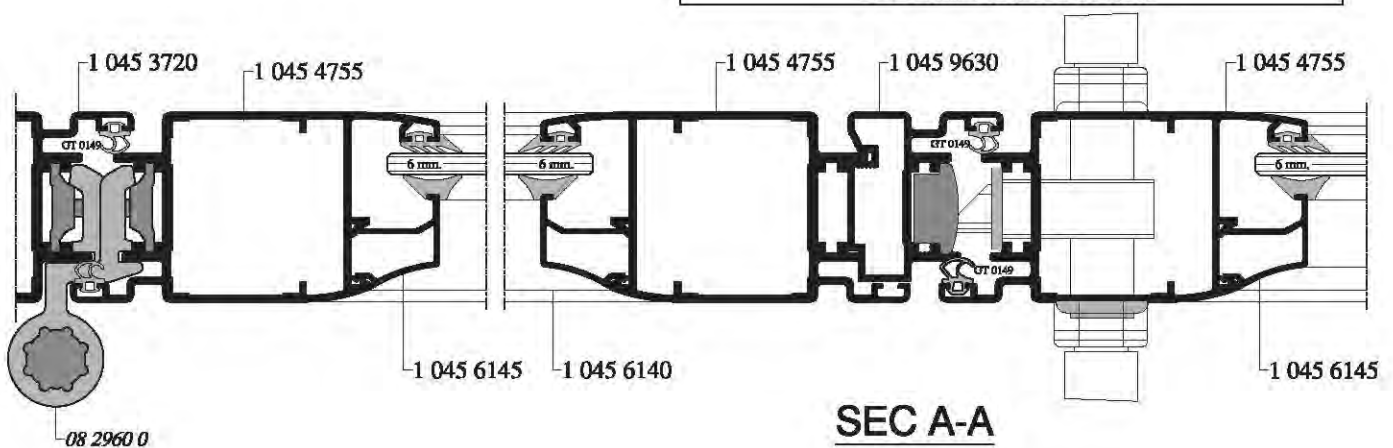




TOTAL WEIGHT	
L (m.) X	8.21 Kg.
H1 (m.) X	10.72 Kg.
H2 (m.) X	10.72 Kg.
TOTAL= Kg.	

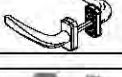
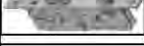
PROFILES CUTTING LIST

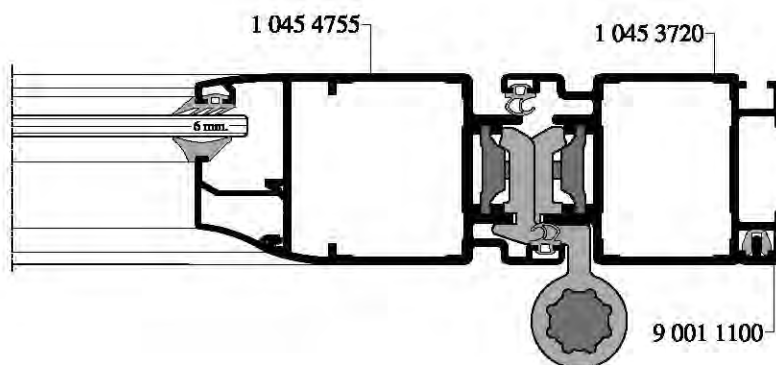
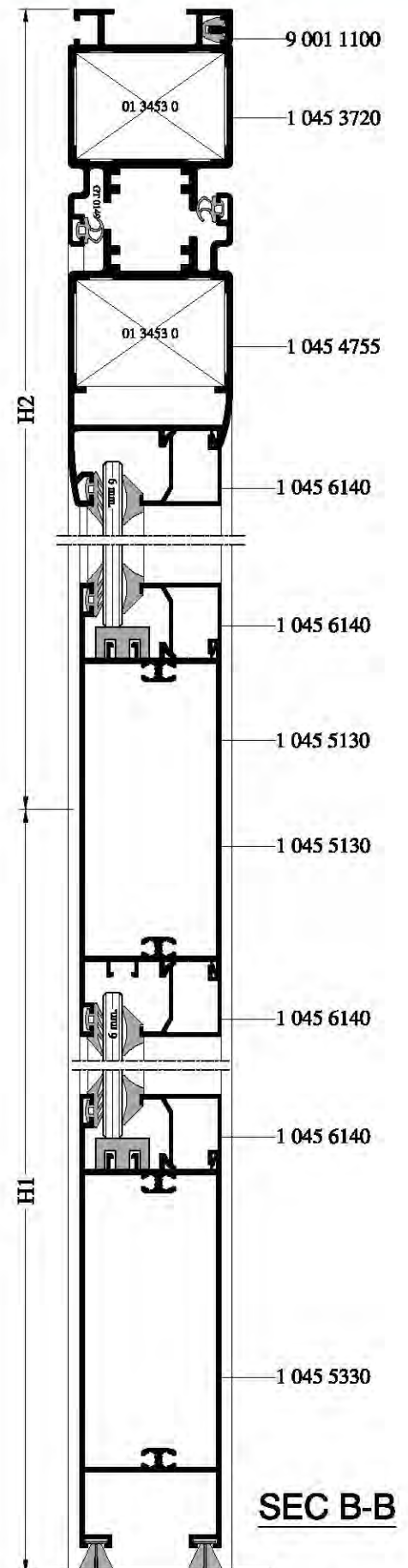
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 3720	1	
		2	
	1 045 4755	2	
		4	
	1 045 5130	2	
	1 045 5330	2	
	1 045 6140	8	
	1 045 6145	4	H1 - 225.5
		4	H2 - 231.5
	1 045 9630	1	
	9 001 1100	1	
		2	
SINGLE GLASS"4-6mm"		2	
			H1 - 198
SINGLE GLASS"4-6mm"		2	
			H2 - 203.5
ALL DIMENSIONS IN mm.			

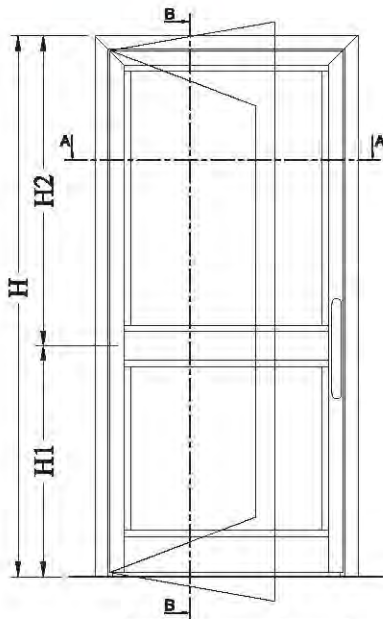




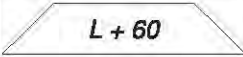
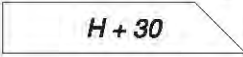
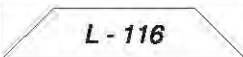
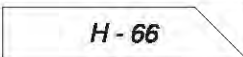
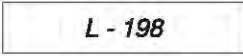
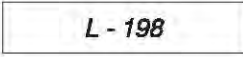
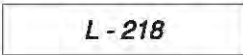
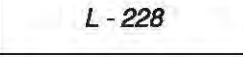
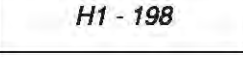
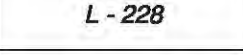
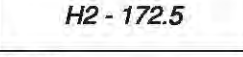
ACCESSORIES LIST

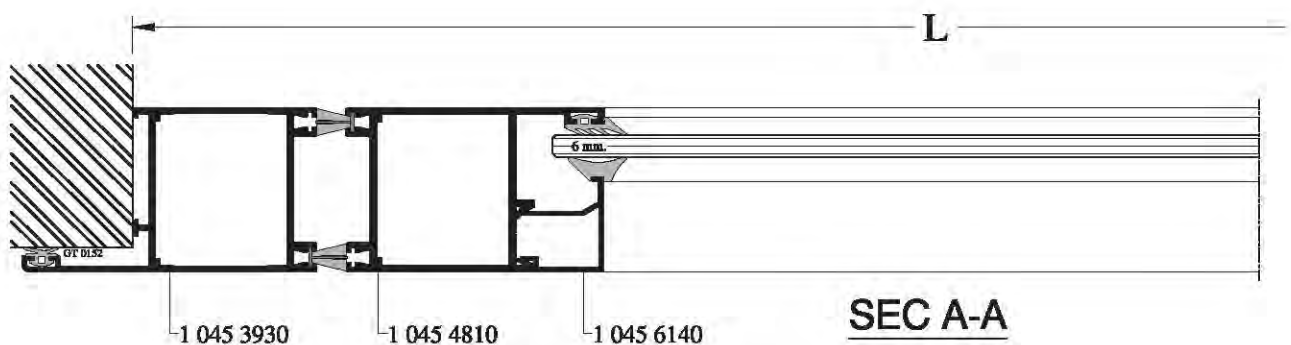
FIGURE	ACC. NO	QTY.	DESCRIPTION
	08 2960 0	4	Hinges
	1 3451 0	6	Corner Joint
	36 1241 0	1	Pair Of Door Handle
	WK102.30.10	1	Lock
	54 1060 0	1	Striker
	62 1480 0	1	Central Rabbet Plug
		1	Lever Bolt
	GT 0111	4L+4H	Glass Gasket
	GT 0124	4L+4H	Glass Gasket
	GT 0149	2L+6H	Striker Gasket
	WS 7*10 R	2L	Weather Strip





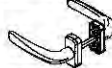
TOTAL WEIGHT	
L (m.) X 7.23 Kg.	+
H1 (m.) X 4.85 Kg.	+
H2 (m.) X 4.85 Kg.	+
TOTAL = Kg.	

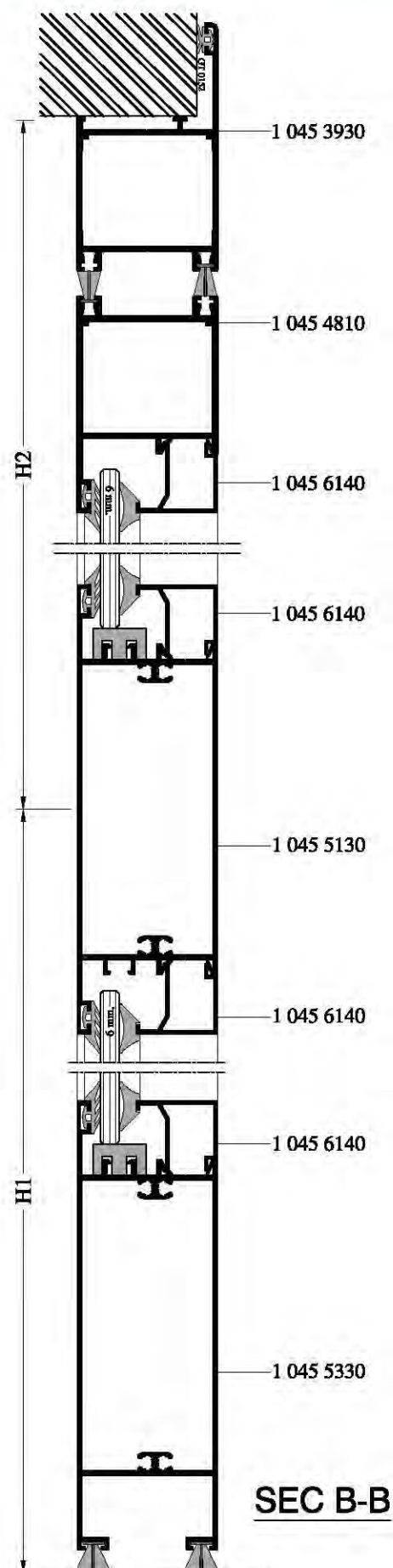
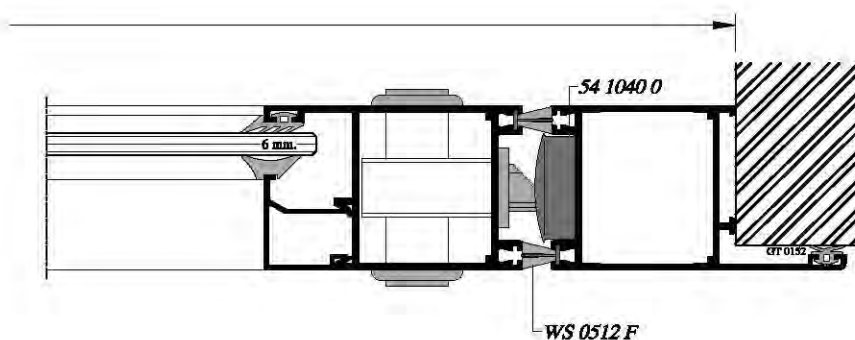
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 3930	1	
		2	
	1 045 4810	1	
		2	
	1 045 5130	1	
	1 045 5330	1	
	1 045 6140	4	
		2	
		2	
SINGLE GLASS"4-6mm"		1	
			
SINGLE GLASS"4-6mm"		1	
			
ALL DIMENSIONS IN mm.			

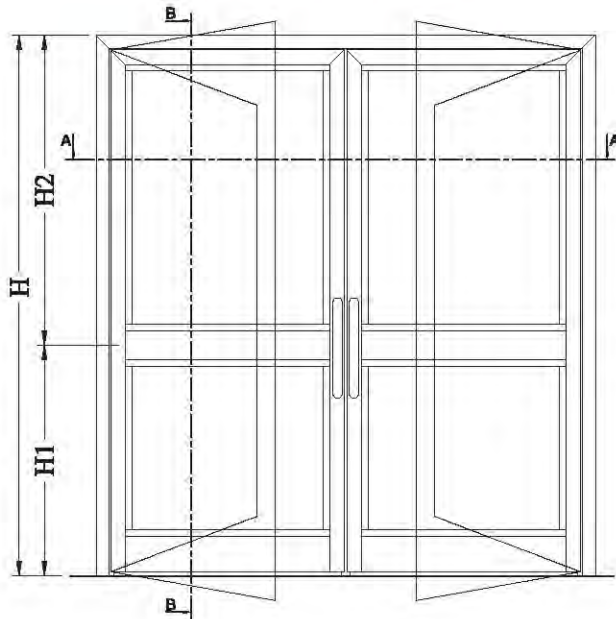




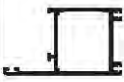
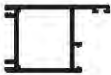
ACCESSORIES LIST

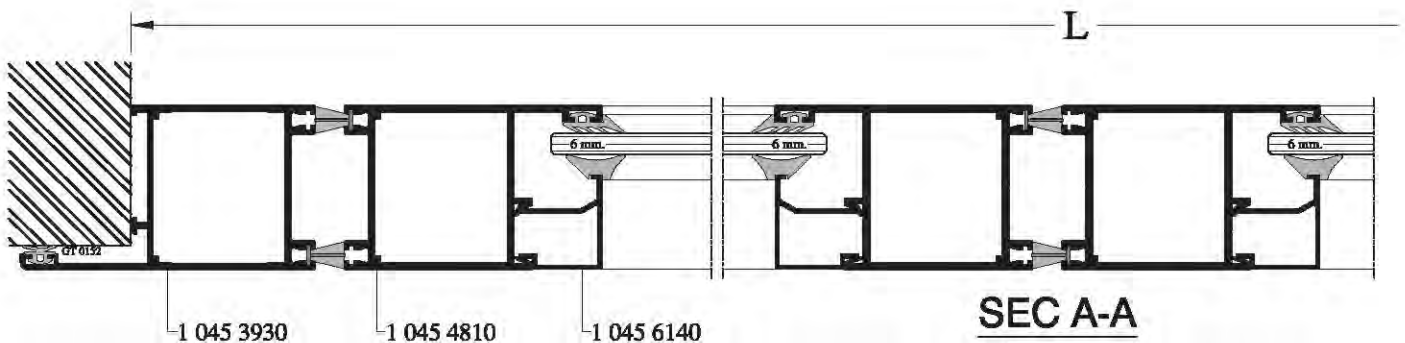
FIGURE	ACC. NO	QTY.	DESCRIPTION
	1 3451 0	4	Corner Joint
	36 1241 0	1	Pair Of Door Handle
	WK102.30.10	1	Lock
	54 1060 0	1	Striker
	GT 0111	4L+2H	Glass Gasket
	GT 0124	4L+2H	Glass Gasket
	GT 0152	L+2H	Striker Gasket
	WS 0710 F	2L	Weather Strip
	WS 0512 F	2L+4H	Weather Strip





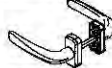
TOTAL WEIGHT	
L (m.) X 7.23 Kg.	+
H1 (m.) X 7.63 Kg.	+
H2 (m.) X 7.63 Kg.	+
TOTAL=	Kg.

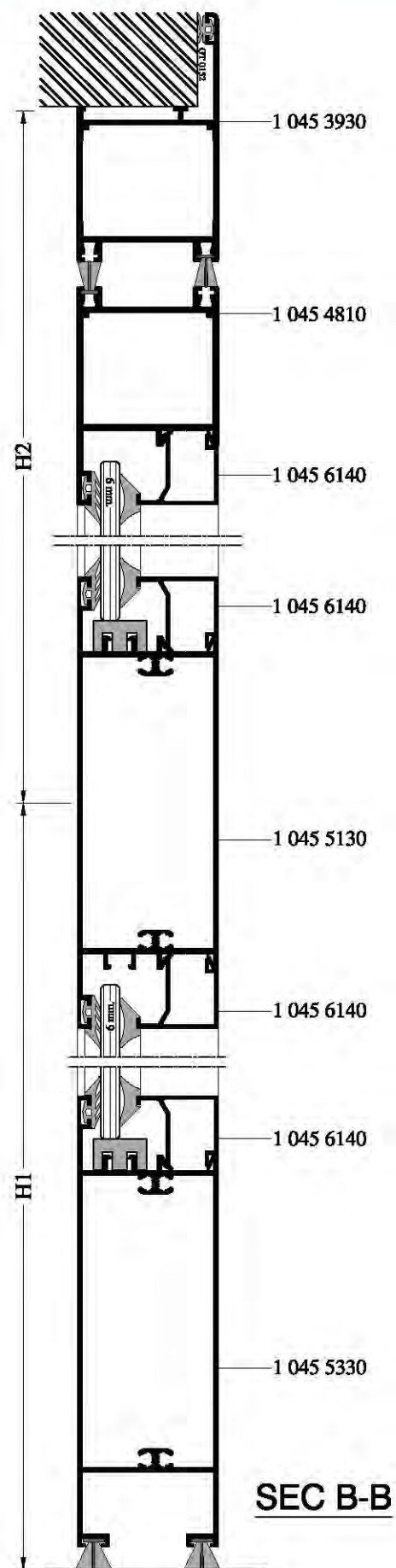
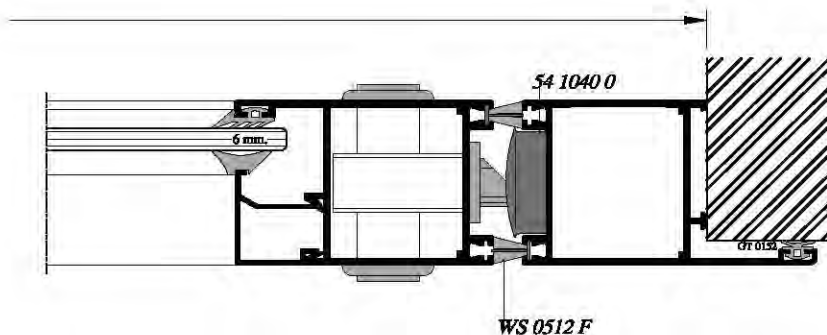
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	1 045 3930	1	L + 60
		2	H + 30
	1 045 4810	2	$\frac{L - 124}{2}$
		4	H - 66
	1 045 5130	1	$\frac{L - 308}{2}$
	1 045 5330	1	$\frac{L - 308}{2}$
	1 045 6140	8	$\frac{L - 328}{2}$
		4	H1 - 200.5
		4	H2 - 231.5
SINGLE GLASS*4-6mm"		1	$\frac{L - 348}{2}$
			H1 - 198
SINGLE GLASS*4-6mm"		1	$\frac{L - 348}{2}$
			H2 - 172.5
ALL DIMENSIONS IN mm.			





ACCESSORIES LIST

FIGURE	ACC. NO	QTY.	DESCRIPTION
	1 3451 0	6	Corner Joint
	36 1241 0	2	Pair Of Door Handle
	WK102.30.10	1	Lock
	54 1060 0	1	Striker
	GT 0111	8L+4H	Glass Gasket
	GT 0124	8L+4H	Glass Gasket
	GT 0152	L+2H	Striker Gasket
	WS 0710 F	2L	Weather Strip
	WS 0512 F	2L+6H	Weather Strip



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Email: info@machalum.com

A decorative graphic in the bottom right corner consisting of several overlapping, irregular red outlines that form a complex, geometric pattern resembling a stylized honeycomb or a series of interconnected polygons.