



Machines & Aluminium Center

مرکز ماشینات و مستلزمات الألومنيوم



TANGO 60

SLIDING SYSTEMS

2020

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
مرکز ماشینات و مستلزمات 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.

INDEX

Technical Specifications.....	4
Technical Characteristics.....	13
Certificate.....	14
Wind Load Charts.....	15
Profiles.....	17
Glazing Thickness.....	27
Profiles Sections 1:1.....	28
Detailed Sections.....	38
Assembly Instruction.....	63
Cutting List.....	68



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 section and sash sections 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 aluminium corner cleat or locking brackets with dowels, also using different types of angles to keep of right angle.
- Rollers have a high load capacity; that a couple of single rollers can carry a sliding leaf that weigh up to 90 kg, and a couple of double rollers can carry a leaf that weigh up to 160 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 grater 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

Signature of 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
(القاهرة)

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

Interpon D Approved Applicator

Series D1000

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

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

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

Approved for Aluminium Alloys: AA5050

Approved for Pre-treatment Type: Chrome

Wael Mahmoud
Sales and Marketing Manager
North Africa & Levant

3/1/2021

AkzoNobel Industrial Paints



AkzoNobel

Interpon D Approved Applicator

Series D2000

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

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

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

Approved for Aluminium Alloys: AA5050

Approved for Pre-treatment Type: Chrome

Wael Mahmoud
Sales and Marketing Manager
North Africa & Levant

3/1/2021

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

Gottfrey 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: 710608010111144/14 16
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.

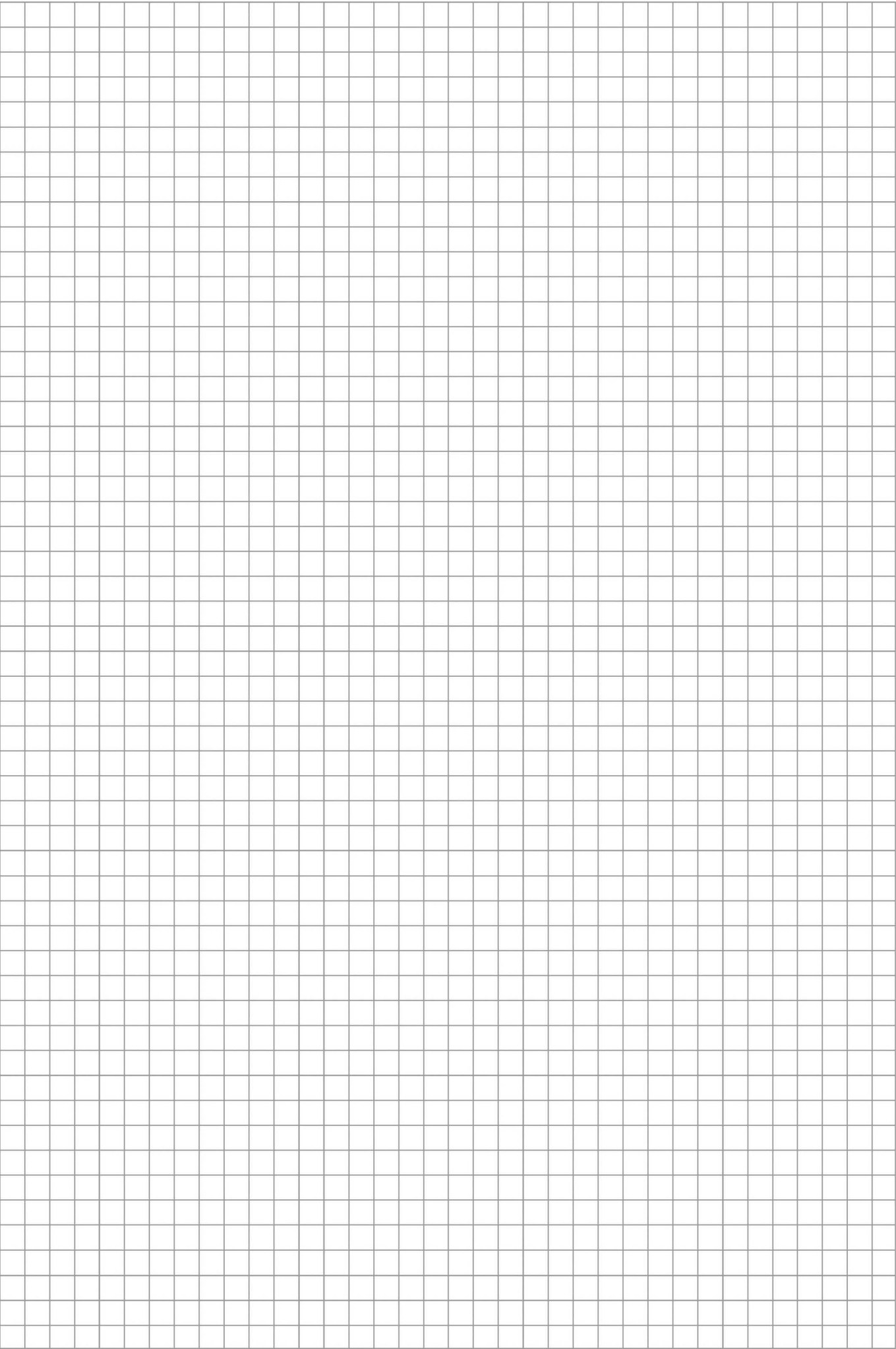
Authorized signature
CEO

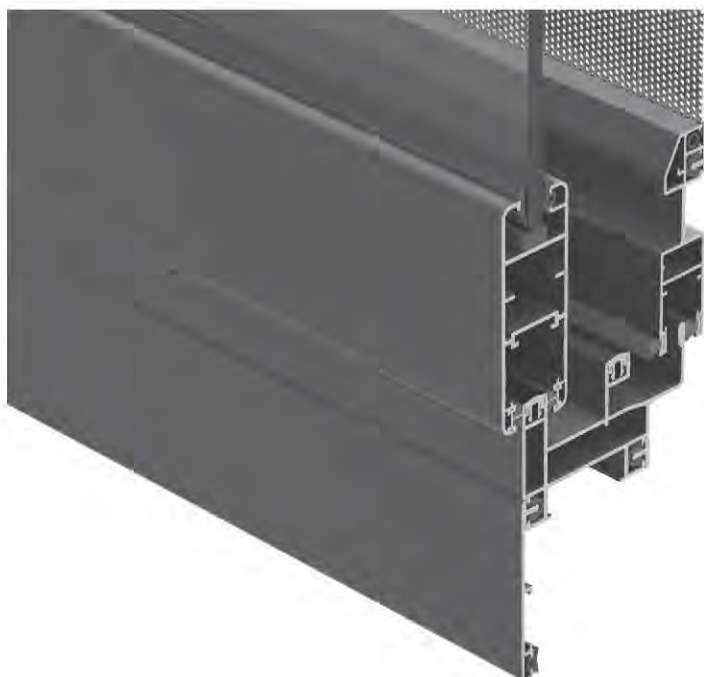
Authorized signature
Commercial director

[Signature]

[Signature]

[Signature]





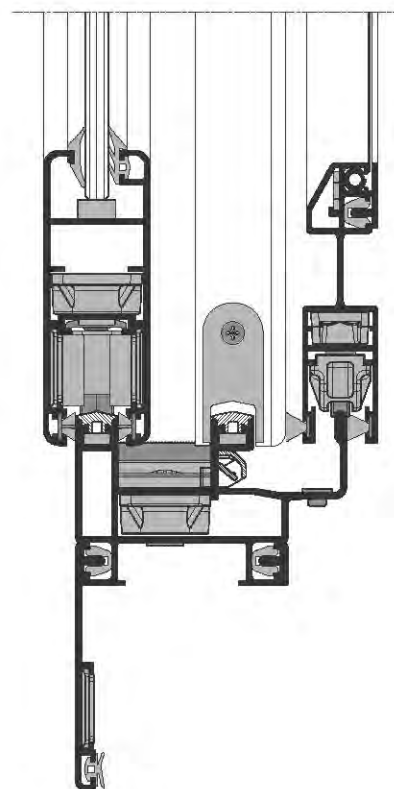
- Wide variety of sashes in shapes and dimensions that matches available frames with functional and soft line design.
- Wide range of locking systems and multi locking points and anti-lift blocks.
- Available in the double or triple track design, structures with up to six leaves.
- Integrated fly screen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

Technical Characteristics

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

Complies with European norm hEN 1435-1

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





EUROPEAN CERTIFYING ORGANIZATION S.p.A.
NOTIFIED TESTING LABORATORY N. 0714
FOR REGULATION (EU) No 305/2011
CLASSIFICATION ASSESSMENT
N. 0714-CPR-1302 DATED NOVEMBER, 30 2015

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

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

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

type-testing

for the determination of the essential characteristics

Air Permeability – Water tightness – Resistance to Wind Load

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

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

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

System of assessment and verification of constancy of performance 3

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

DESCRIPTION OF THE PRODUCT

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

PRODUCED IN THE FACTORY

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

PLACED ON THE MARKET BY

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

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

THE FOLLOWING CLASSIFICATION IS AWARDED

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

The results refer only to the specimen that has been provided by the Manufacturer and submitted to type-testing listed above.

This classification assessment consists of 1 page and its reproduction is permitted in full only.

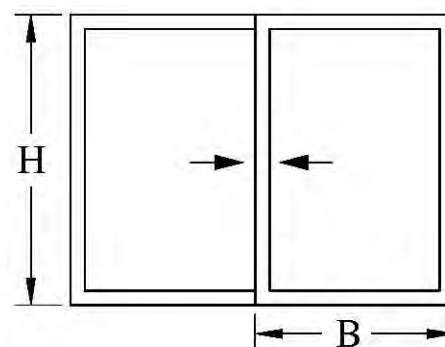
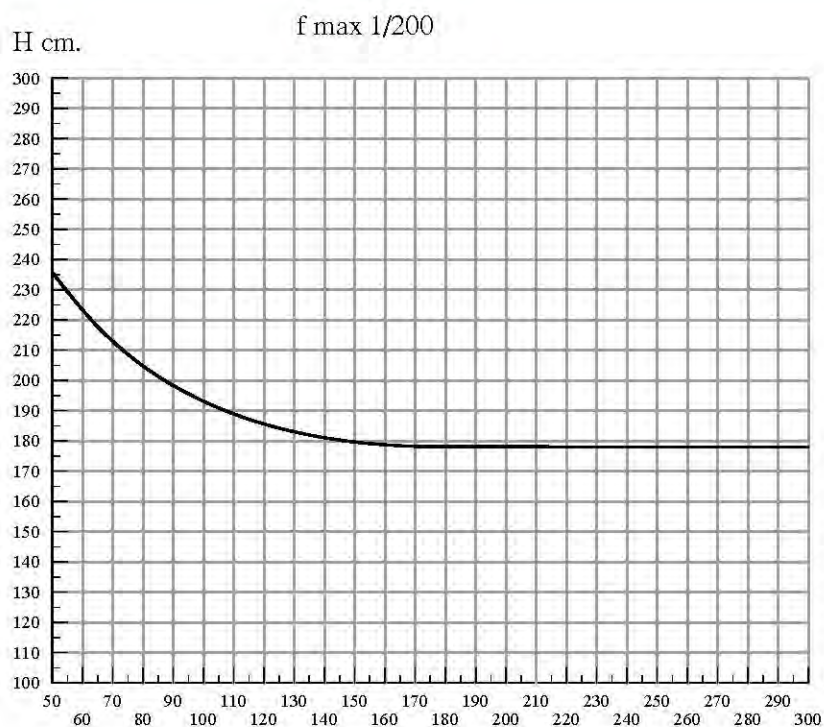
Faenza, November 30, 2015

The undersigned ECO Certificazioni S.p.A. Scheme Manager CPR

Eng. Gianluca Campolossi

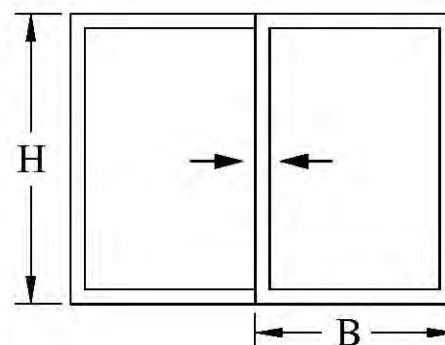
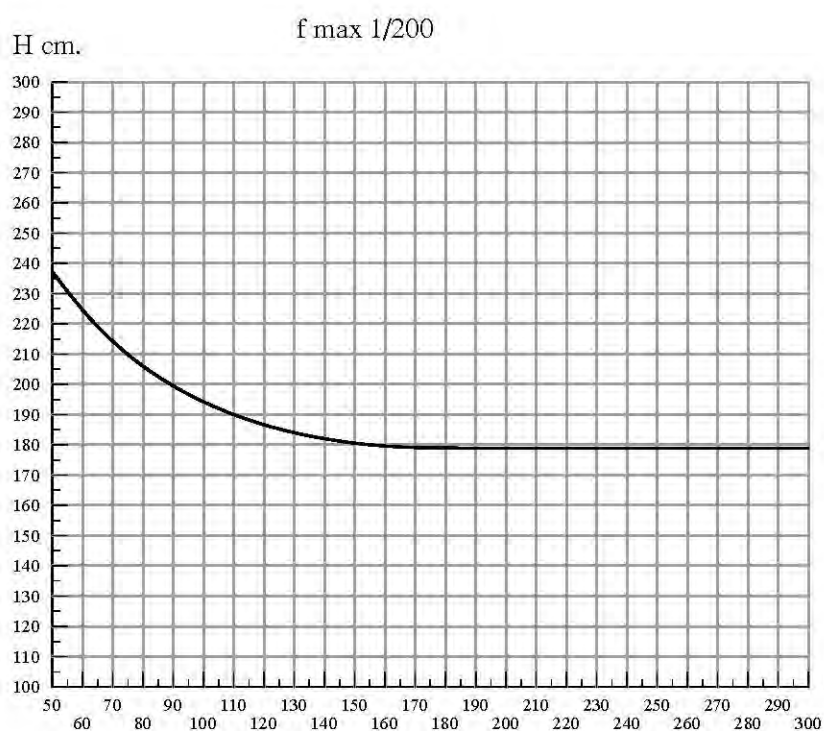
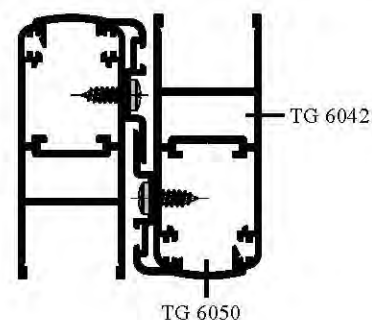


ECO Certificazioni S.p.A. • Via Mengolina, 33
48018 Faenza (RA) - ITALY
Tel. +39 0546 624811 • Fax +39 0546 624822
E-mail: info@eco-cert.it • www.ecocertificazioni.eu



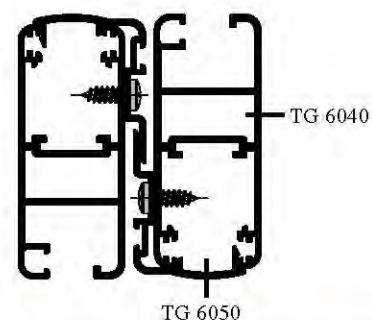
THE WIND PRESSURE IS 500 PASCAL
(51 Kg/Sq.m)
Verify That the Arrow Of the Profile is
Compatible With the Employed Glass

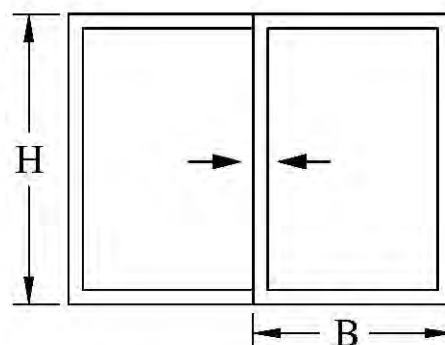
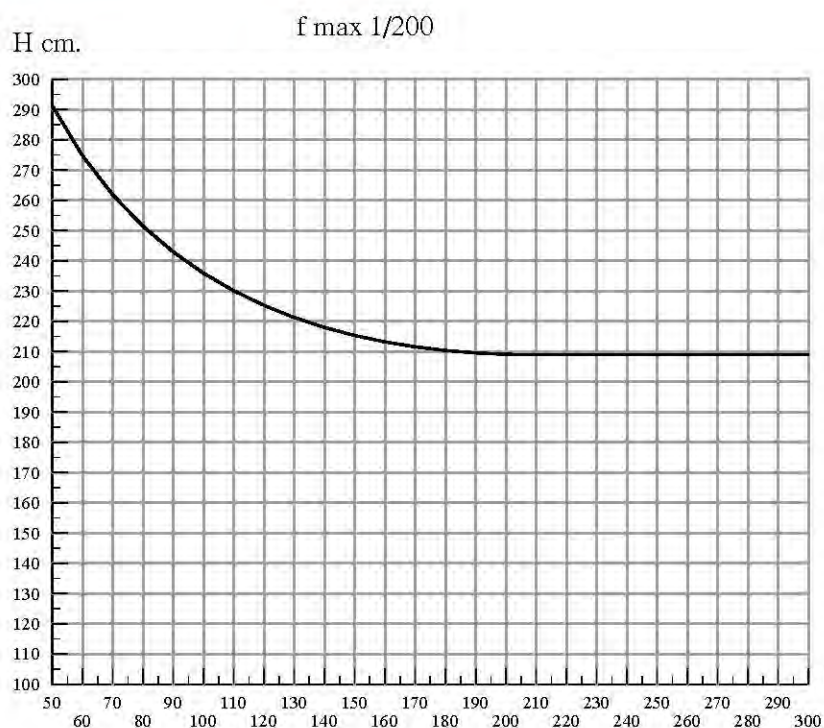
$$I_x = 12.20 \text{ cm}^4$$



THE WIND PRESSURE IS 500 PASCAL
(51 Kg/Sq.m)
Verify That the Arrow Of the Profile is
Compatible With the Employed Glass

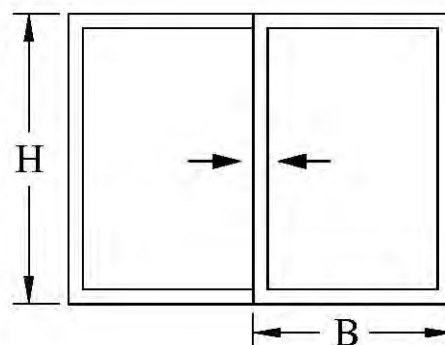
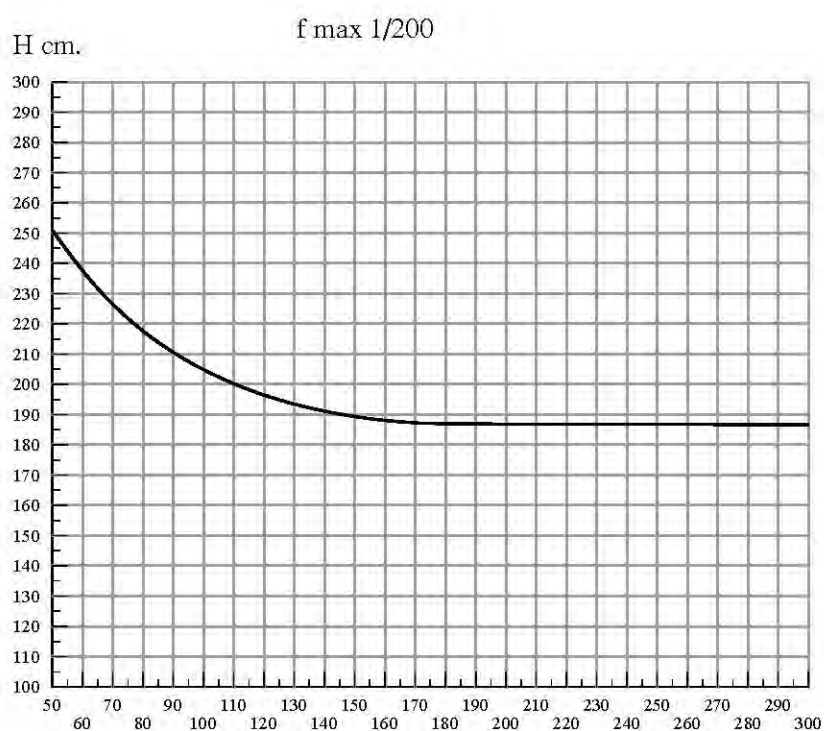
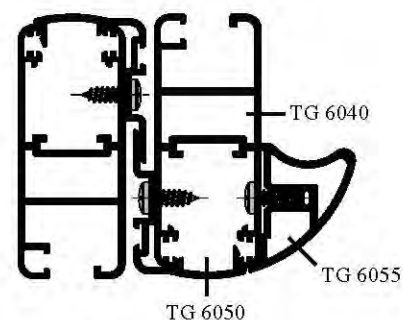
$$I_x = 12.43 \text{ cm}^4$$





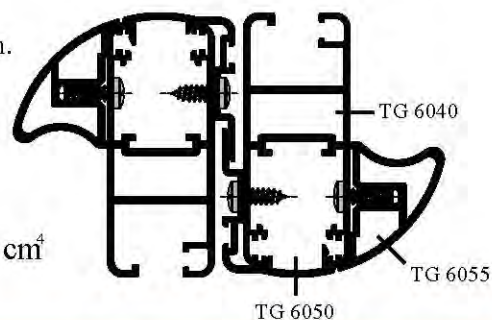
THE WIND PRESSURE IS 500 PASCAL
(51 Kg/Sq.m)
Verify That the Arrow Of the Profile is
Compatible With the Employed Glass

$$I_x = 23.15 \text{ cm}^4$$

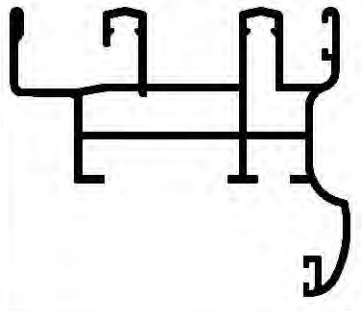
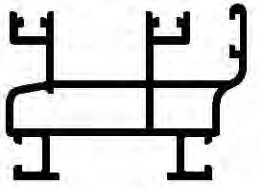
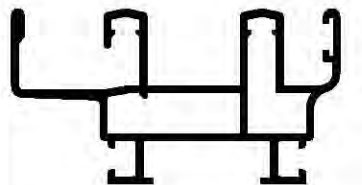
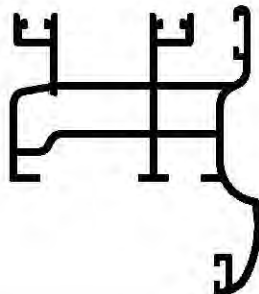
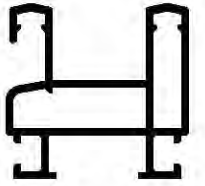
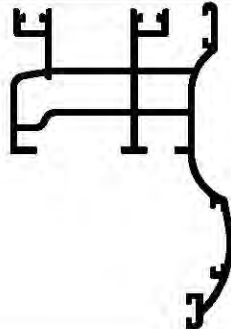
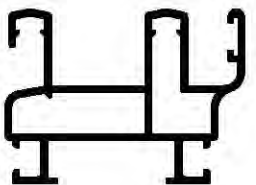
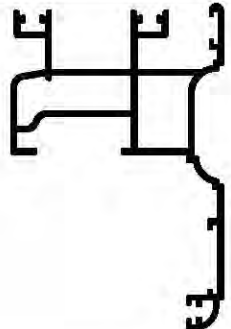
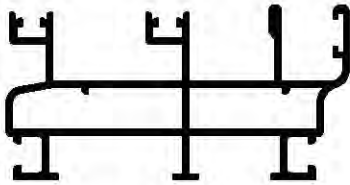
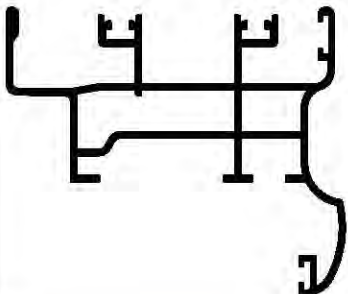


THE WIND PRESSURE IS 500 PASCAL
(51 Kg/Sq.m)
Verify That the Arrow Of the Profile is
Compatible With the Employed Glass

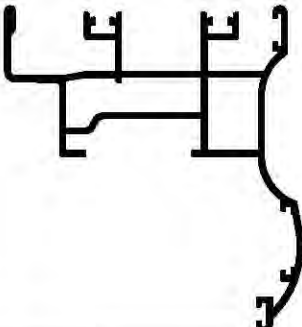
$$I_x = 33.87 \text{ cm}^4$$

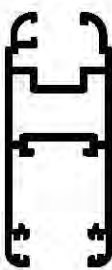


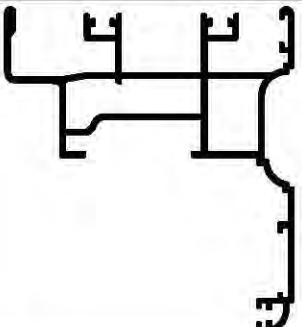


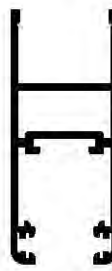
	<table><tr><th colspan="3">TG 6020</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.691</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>616.78</td><td>mm.</td></tr><tr><td>Jx</td><td>20.64</td><td>cm⁴</td></tr><tr><td>Jy</td><td>46.59</td><td>cm⁴</td></tr></table>	TG 6020			Frame			WEIGHT	1.691	Kg/m.	PER.	616.78	mm.	Jx	20.64	cm ⁴	Jy	46.59	cm ⁴
TG 6020																			
Frame																			
WEIGHT	1.691	Kg/m.																	
PER.	616.78	mm.																	
Jx	20.64	cm ⁴																	
Jy	46.59	cm ⁴																	
	<table><tr><th colspan="3">TG 6031</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.210</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>450.41</td><td>mm.</td></tr><tr><td>Jx</td><td>7.02</td><td>cm⁴</td></tr><tr><td>Jy</td><td>17.47</td><td>cm⁴</td></tr></table>	TG 6031			Frame			WEIGHT	1.210	Kg/m.	PER.	450.41	mm.	Jx	7.02	cm ⁴	Jy	17.47	cm ⁴
TG 6031																			
Frame																			
WEIGHT	1.210	Kg/m.																	
PER.	450.41	mm.																	
Jx	7.02	cm ⁴																	
Jy	17.47	cm ⁴																	
	<table><tr><th colspan="3">TG 6023</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.515</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>501.34</td><td>mm.</td></tr><tr><td>Jx</td><td>9.09</td><td>cm⁴</td></tr><tr><td>Jy</td><td>35.48</td><td>cm⁴</td></tr></table>	TG 6023			Frame			WEIGHT	1.515	Kg/m.	PER.	501.34	mm.	Jx	9.09	cm ⁴	Jy	35.48	cm ⁴
TG 6023																			
Frame																			
WEIGHT	1.515	Kg/m.																	
PER.	501.34	mm.																	
Jx	9.09	cm ⁴																	
Jy	35.48	cm ⁴																	
	<table><tr><th colspan="3">TG 6032.2</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.414</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>563.10</td><td>mm.</td></tr><tr><td>Jx</td><td>20.64</td><td>cm⁴</td></tr><tr><td>Jy</td><td>46.59</td><td>cm⁴</td></tr></table>	TG 6032.2			Frame			WEIGHT	1.414	Kg/m.	PER.	563.10	mm.	Jx	20.64	cm ⁴	Jy	46.59	cm ⁴
TG 6032.2																			
Frame																			
WEIGHT	1.414	Kg/m.																	
PER.	563.10	mm.																	
Jx	20.64	cm ⁴																	
Jy	46.59	cm ⁴																	
	<table><tr><th colspan="3">TG 6027</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.062</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>330.00</td><td>mm.</td></tr><tr><td>Jx</td><td>7.12</td><td>cm⁴</td></tr><tr><td>Jy</td><td>10.44</td><td>cm⁴</td></tr></table>	TG 6027			Frame			WEIGHT	1.062	Kg/m.	PER.	330.00	mm.	Jx	7.12	cm ⁴	Jy	10.44	cm ⁴
TG 6027																			
Frame																			
WEIGHT	1.062	Kg/m.																	
PER.	330.00	mm.																	
Jx	7.12	cm ⁴																	
Jy	10.44	cm ⁴																	
	<table><tr><th colspan="3">TG 6033.2</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.542</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>610.18</td><td>mm.</td></tr><tr><td>Jx</td><td>36.26</td><td>cm⁴</td></tr><tr><td>Jy</td><td>26.66</td><td>cm⁴</td></tr></table>	TG 6033.2			Frame			WEIGHT	1.542	Kg/m.	PER.	610.18	mm.	Jx	36.26	cm ⁴	Jy	26.66	cm ⁴
TG 6033.2																			
Frame																			
WEIGHT	1.542	Kg/m.																	
PER.	610.18	mm.																	
Jx	36.26	cm ⁴																	
Jy	26.66	cm ⁴																	
	<table><tr><th colspan="3">TG 6028</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.248</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>411.00</td><td>mm.</td></tr><tr><td>Jx</td><td>8.16</td><td>cm⁴</td></tr><tr><td>Jy</td><td>18.24</td><td>cm⁴</td></tr></table>	TG 6028			Frame			WEIGHT	1.248	Kg/m.	PER.	411.00	mm.	Jx	8.16	cm ⁴	Jy	18.24	cm ⁴
TG 6028																			
Frame																			
WEIGHT	1.248	Kg/m.																	
PER.	411.00	mm.																	
Jx	8.16	cm ⁴																	
Jy	18.24	cm ⁴																	
	<table><tr><th colspan="3">TG 6033.3</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.517</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>595.88</td><td>mm.</td></tr><tr><td>Jx</td><td>35.54</td><td>cm⁴</td></tr><tr><td>Jy</td><td>26.86</td><td>cm⁴</td></tr></table>	TG 6033.3			Frame			WEIGHT	1.517	Kg/m.	PER.	595.88	mm.	Jx	35.54	cm ⁴	Jy	26.86	cm ⁴
TG 6033.3																			
Frame																			
WEIGHT	1.517	Kg/m.																	
PER.	595.88	mm.																	
Jx	35.54	cm ⁴																	
Jy	26.86	cm ⁴																	
	<table><tr><th colspan="3">TG 6029</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.617</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>579.76</td><td>mm.</td></tr><tr><td>Jx</td><td>9.29</td><td>cm⁴</td></tr><tr><td>Jy</td><td>46.95</td><td>cm⁴</td></tr></table>	TG 6029			Frame			WEIGHT	1.617	Kg/m.	PER.	579.76	mm.	Jx	9.29	cm ⁴	Jy	46.95	cm ⁴
TG 6029																			
Frame																			
WEIGHT	1.617	Kg/m.																	
PER.	579.76	mm.																	
Jx	9.29	cm ⁴																	
Jy	46.95	cm ⁴																	
	<table><tr><th colspan="3">TG 6036.2</th></tr><tr><td colspan="3">Frame</td></tr><tr><td>WEIGHT</td><td>1.670</td><td>Kg/m.</td></tr><tr><td>PER.</td><td>655.05</td><td>mm.</td></tr><tr><td>Jx</td><td>19.41</td><td>cm⁴</td></tr><tr><td>Jy</td><td>45.80</td><td>cm⁴</td></tr></table>	TG 6036.2			Frame			WEIGHT	1.670	Kg/m.	PER.	655.05	mm.	Jx	19.41	cm ⁴	Jy	45.80	cm ⁴
TG 6036.2																			
Frame																			
WEIGHT	1.670	Kg/m.																	
PER.	655.05	mm.																	
Jx	19.41	cm ⁴																	
Jy	45.80	cm ⁴																	

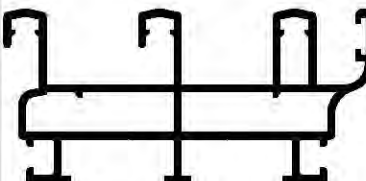


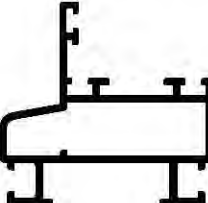
	TG 6037.2		
	Frame		
	WEIGHT	1.768	Kg/m.
	PER.	622.22	mm.
	Jx	39.89	cm ⁴
	Jy	50.94	cm ⁴

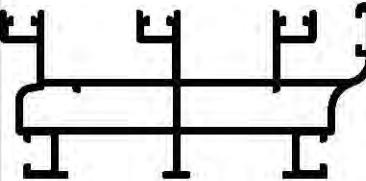
	TG 6040.3		
	Leaf For Single Glass		
	WEIGHT	0.944	Kg/m.
	PER.	402.07	mm.
	Jx	12.60	cm ⁴
	Jy	1.37	cm ⁴

	TG 6037.3		
	Frame		
	WEIGHT	1.761	Kg/m.
	PER.	688.09	mm.
	Jx	38.85	cm ⁴
	Jy	51.26	cm ⁴

	TG 6042		
	Leaf For Double Glass		
	WEIGHT	0.909	Kg/m.
	PER.	365.00	mm.
	Jx	10.68	cm ⁴
	Jy	4.36	cm ⁴

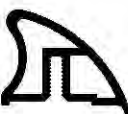
	TG 6038		
	Frame		
	WEIGHT	1.778	Kg/m.
	PER.	580.37	mm.
	Jx	11.08	cm ⁴
	Jy	56.76	cm ⁴

	TG 6045		
	Profile For Connection With SAMBA 40		
	WEIGHT	0.962	Kg/m.
	PER.	356.00	mm.
	Jx	6.06	cm ⁴
	Jy	11.20	cm ⁴

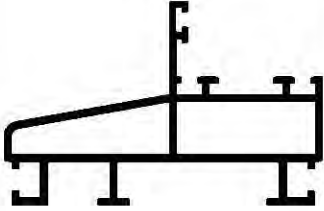
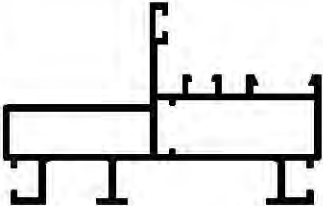
	TG 6039		
	Frame		
	WEIGHT	1.683	Kg/m.
	PER.	619.37	mm.
	Jx	9.59	cm ⁴
	Jy	53.77	cm ⁴

	TG 6050		
	Central Connection		
	WEIGHT	0.320	Kg/m.
	PER.	172.00	mm.
	Jx	1.54	cm ⁴
	Jy	0.96	cm ⁴

	TG 6040		
	Leaf For Single Glass		
	WEIGHT	0.970	Kg/m.
	PER.	408.00	mm.
	Jx	12.64	cm ⁴
	Jy	4.46	cm ⁴

	TG 6055		
	Reinforcing Handle		
	WEIGHT	0.547	Kg/m.
	PER.	139.05	mm.
	Jx	1.10	cm ⁴
	Jy	1.64	cm ⁴



	TG 6070 Transom For Single Glass WEIGHT 0.837 Kg/m. PER. 296.55 mm. Jx 10.73 cm ⁴ Jy 19.54 cm ⁴		SH 8094 Profile For Connection With SAMBA 40 WEIGHT 1.331 Kg/m. PER. 440.81 mm. Jx 7.10 cm ⁴ Jy 31.46 cm ⁴
	TG 6072 Transom For Double Glass WEIGHT 0.887 Kg/m. PER. 274.33 mm. Jx 9.78 cm ⁴ Jy 4.11 cm ⁴		K 2202 Screen Frame WEIGHT 0.600 Kg/m. PER. 207.42 mm. Jx 3.22 cm ⁴ Jy 2.83 cm ⁴
	TG 6091 Real WEIGHT 0.103 Kg/m. PER. 47.04 mm. Jx cm ⁴ Jy cm ⁴		K 2206 Screen Real WEIGHT 0.329 Kg/m. PER. 121.43 mm. Jx cm ⁴ Jy cm ⁴
	TG 6095 Central Insert 3,4 Wing WEIGHT 0.412 Kg/m. PER. 150.00 mm. Jx 0.66 cm ⁴ Jy 1.24 cm ⁴		K 2222 Screen Leaf WEIGHT 0.432 Kg/m. PER. 236.04 mm. Jx 2.54 cm ⁴ Jy 0.90 cm ⁴
	SH 8045 Profile For Connection With SONATA 45 WEIGHT 1.382 Kg/m. PER. 663.49 mm. Jx 7.07 cm ⁴ Jy 33.02 cm ⁴		K 2227 Screen Leaf WEIGHT 0.581 Kg/m. PER. 269.79 mm. Jx 4.96 cm ⁴ Jy 1.17 cm ⁴



	K 2252	
	Transom	
	WEIGHT	0.628 Kg/m.
	PER.	198.19 mm.
	Jx	5.99 cm ⁴
	Jy	0.57 cm ⁴

	SH 8085	
	Gasket Cover 5.4 cm.	
	WEIGHT	0.358 Kg/m.
	PER.	183.00 mm.
	Jx	cm ⁴
	Jy	cm ⁴

	K 2281	
	Gasket Cover	
	WEIGHT	0.103 Kg/m.
	PER.	53.20 mm.
	Jx	cm ⁴
	Jy	cm ⁴

	SH 8085.2	
	Gasket Cover 5.4 cm.	
	WEIGHT	0.440 Kg/m.
	PER.	205.00 mm.
	Jx	cm ⁴
	Jy	cm ⁴

	SH 8081	
	Gasket Cover	
	WEIGHT	0.095 Kg/m.
	PER.	41.99 mm.
	Jx	cm ⁴
	Jy	cm ⁴

	SH 8085.3	
	Gasket Cover 5.4 cm.	
	WEIGHT	0.411 Kg/m.
	PER.	216.34 mm.
	Jx	cm ⁴
	Jy	cm ⁴

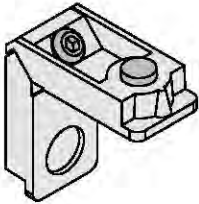
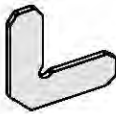
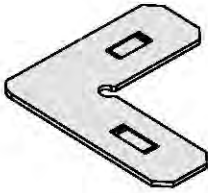
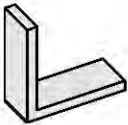
	SH 8083	
	Gasket Cover 3 cm.	
	WEIGHT	0.247 Kg/m.
	PER.	115.66 mm.
	Jx	cm ⁴
	Jy	cm ⁴

	SH 8086.2	
	Gasket Cover 7 cm.	
	WEIGHT	0.487 Kg/m.
	PER.	205.00 mm.
	Jx	cm ⁴
	Jy	cm ⁴

	SH 8083.2	
	Gasket Cover 3 cm.	
	WEIGHT	0.317 Kg/m.
	PER.	153.00 mm.
	Jx	cm ⁴
	Jy	cm ⁴

	SH 8087	
	Gasket Cover	
	WEIGHT	0.186 Kg/m.
	PER.	81.24 mm.
	Jx	cm ⁴
	Jy	cm ⁴



	0325 Aluminium Corner Joint <i>Material:</i> Aluminium <i>Finish:</i> Raw		0574 Alignment Angle <i>Material:</i> Steel <i>Finish:</i> Galvanized
	0550 Nylon Clip <i>Material:</i> Nylon <i>Finish:</i> Black		0575 Alignment Angle <i>Material:</i> Steel <i>Finish:</i> Galvanized
	0570 Alignment Angle <i>Material:</i> Nylon <i>Finish:</i> Black		0700 SIGMA Cremone Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural,Ral
	0571 Alignment Angle <i>Material:</i> Steel <i>Finish:</i> Galvanized		0704 ATON Cremone Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural,Ral
	0573 Alignment Angle <i>Material:</i> Aluminium <i>Finish:</i> Raw		0707 AMON Cremone Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural,Ral

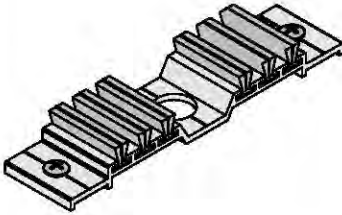
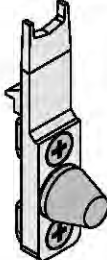
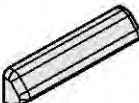
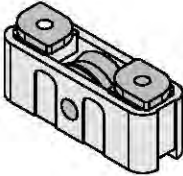


	3004 Striker <i>Material:</i> Zama <i>Finish:</i> Galvanized		3031 DAHAB Handle "Automatic" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral
	3020 TABA Handle "Manual" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3032 DAHAB Handle "Automatic" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral
	3022 Pull Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3033 DAHAB Handle "Automatic" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral
	3025 TEBA Handle "Automatic" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3040-3041 SIWA Handle "Manual&Automatic" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral
	3030 DAHAB Handle "Automatic" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3042-3043 MINA Handle "Manual&Automatic" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral

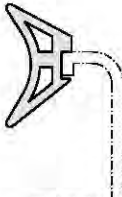
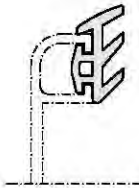
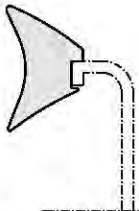
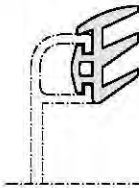
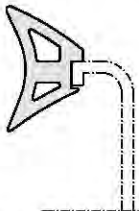
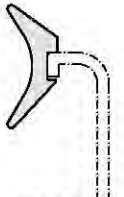
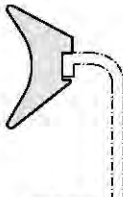
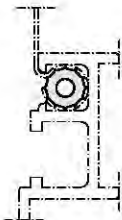


	3044-3045 NUBIA Handle "Manual&Automatic" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3055 Pull Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural,Ral
	3050 Pull Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3140 ISIS Handle "16 cm" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral
	3051 Pull Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural,Ral		3145 ISIS Handle "10 cm" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral
	3052 Pull Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3150 ISIS Handle Intermediate"16 cm" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral
	3053 Pull Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3155 ISIS Handle Intermediate"10 cm" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral

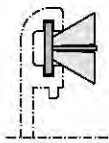
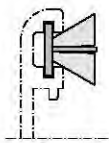


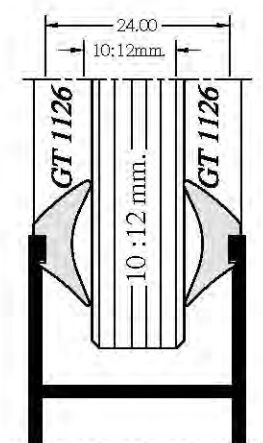
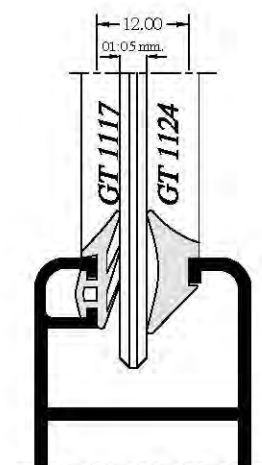
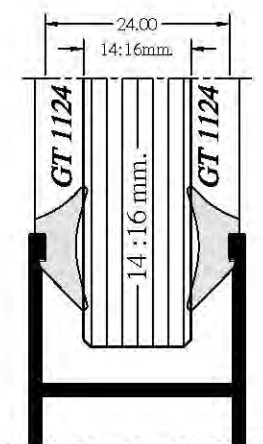
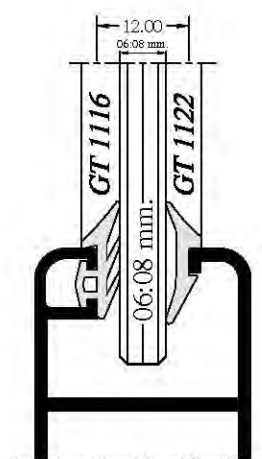
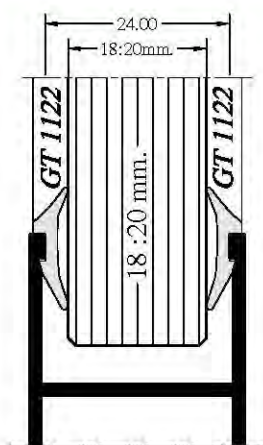
	3160 Intermediate Handle "8 cm" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3365 Anti-dust Caps <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral
	3165 Intermediate Handle "8 cm" <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3465 Cover caps <i>Material:</i> Plastic <i>Finish:</i> Black
	3180 Lateral Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3466 Shock Absorber & Guide <i>Material:</i> Plastic <i>Finish:</i> Gray
	3185 Lateral Handle <i>Material:</i> Aluminium <i>Finish:</i> Natural, Anodized,Ral		3510 Drainage Cover <i>Material:</i> Nylon <i>Finish:</i> Black
	3266 Nylon Single Roller <i>Material:</i> Plastic <i>Finish:</i> Gray		3601 Screen Roller Set <i>Material:</i> Nylon <i>Finish:</i> Black

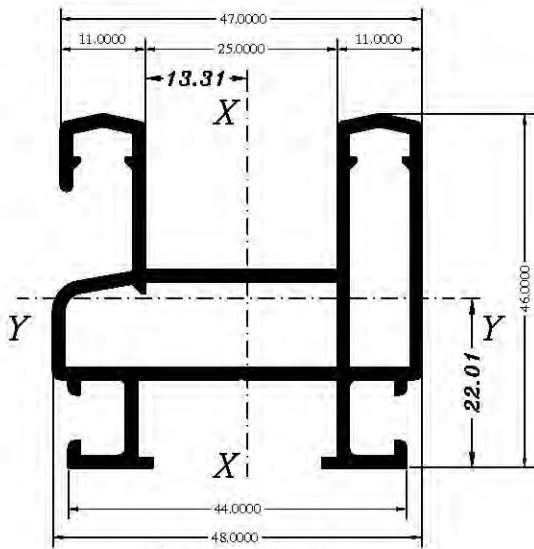


	3651 Screen Lateral Embedded Handle <i>Material:</i> Nylon <i>Finish:</i> Black	 Thickness 4:5mm.	GT 0124-1 Glazing Gasket 4:5mm. <i>Material:</i> E.P.D.M. <i>Finish:</i> Black
 Thickness 2:4mm.	GT 0116 Glazing Gasket 2:4mm. <i>Material:</i> E.P.D.M. <i>Finish:</i> Black	 Thickness 6:7mm.	GT 0126 Glazing Gasket 6:7mm. <i>Material:</i> E.P.D.M. <i>Finish:</i> Black
 Thickness 4:6mm.	GT 0117 Glazing Gasket 4:6mm. <i>Material:</i> E.P.D.M. <i>Finish:</i> Black	 Thickness 6:7mm.	GT 0126-1 Glazing Gasket 6:7mm. <i>Material:</i> E.P.D.M. <i>Finish:</i> Black
 Thickness 2:3mm.	GT 0122 Glazing Gasket 2:3mm. <i>Material:</i> E.P.D.M. <i>Finish:</i> Black		GT 0152 Frame Gasket <i>Material:</i> E.P.D.M. <i>Finish:</i> Black
 Thickness 4:5mm.	GT 0124 Glazing Gasket 4:5mm. <i>Material:</i> E.P.D.M. <i>Finish:</i> Black		GT 0181 Screen Gasket <i>Material:</i> P.V.C. <i>Finish:</i> Black

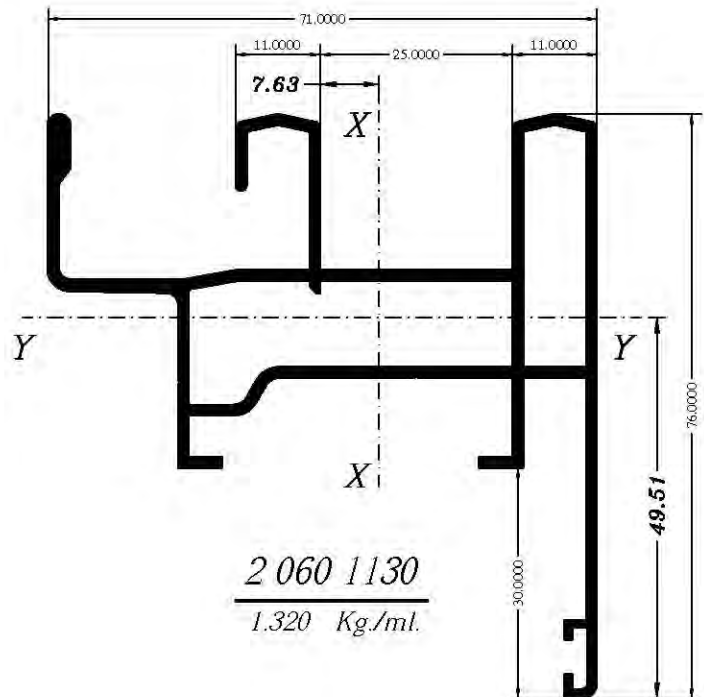


	WS 0707 F Weather Strip 7x7 Material: Finish: Black		ZOX 14116 Punching Tool For Basic Operations Material: Finish:
	WS 0510 Weather Strip 5x10 Material: Finish: Black		ZOX 14117 Punching Tool For Additional Operations Material: Finish:

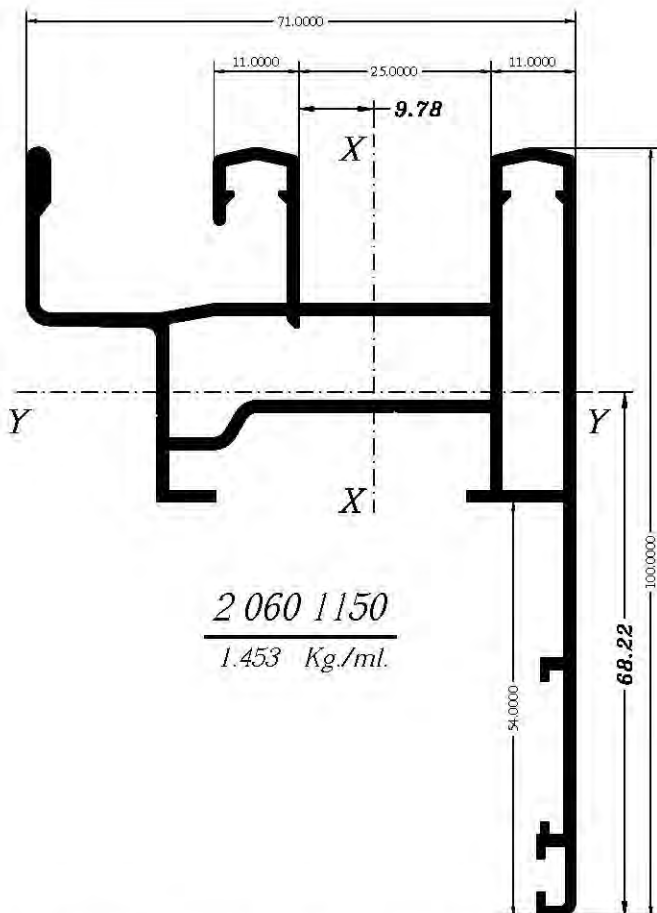




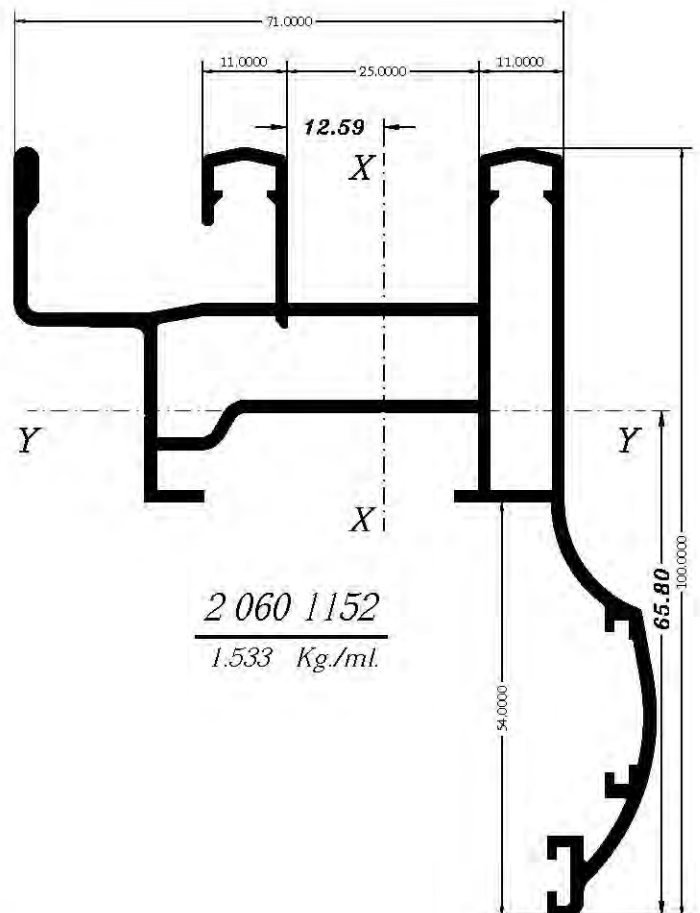
2 060 1020
1.037 Kg./ml.



2 060 1130
1.320 Kg./ml.

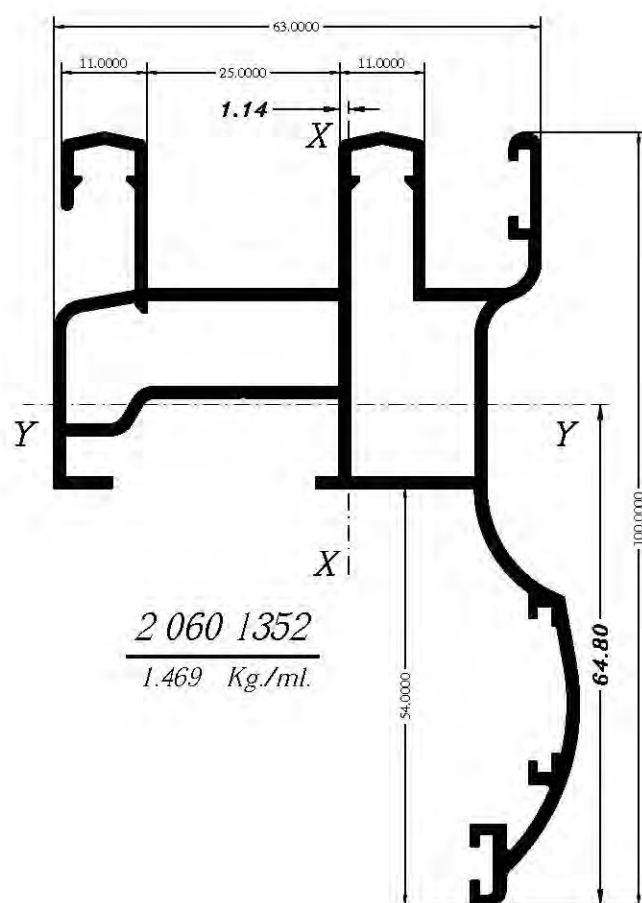
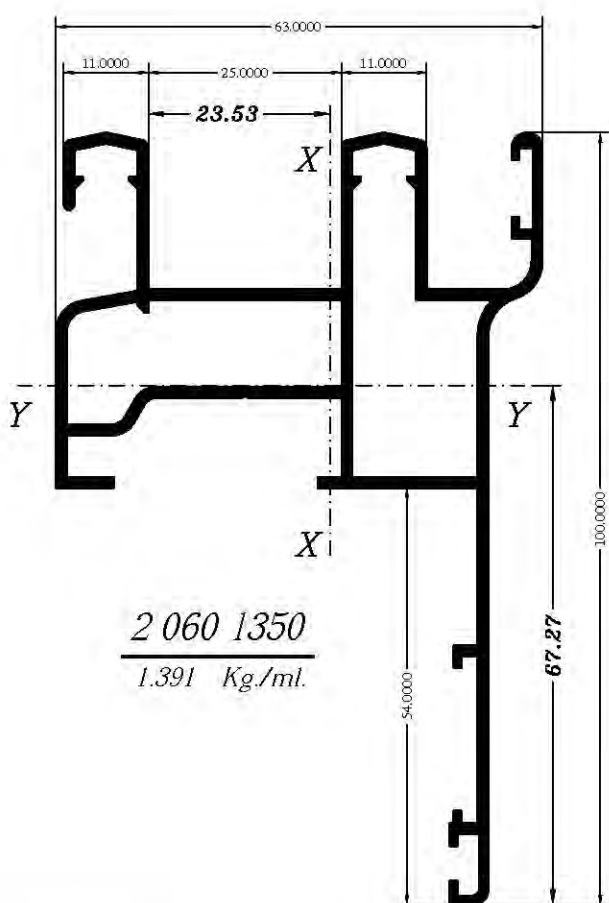
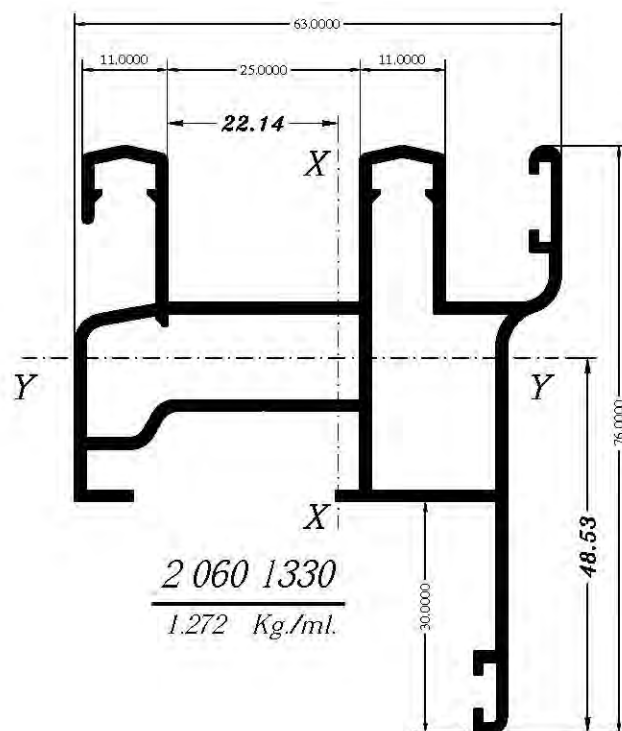
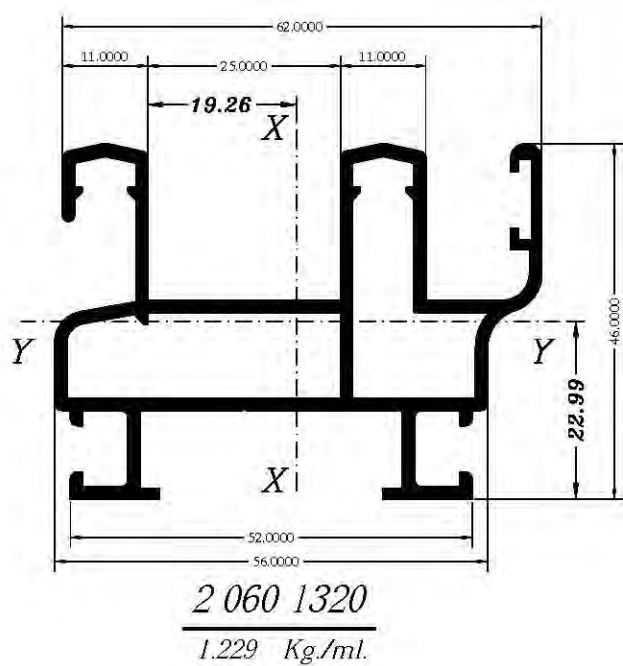


2 060 1150
1.453 Kg./ml.

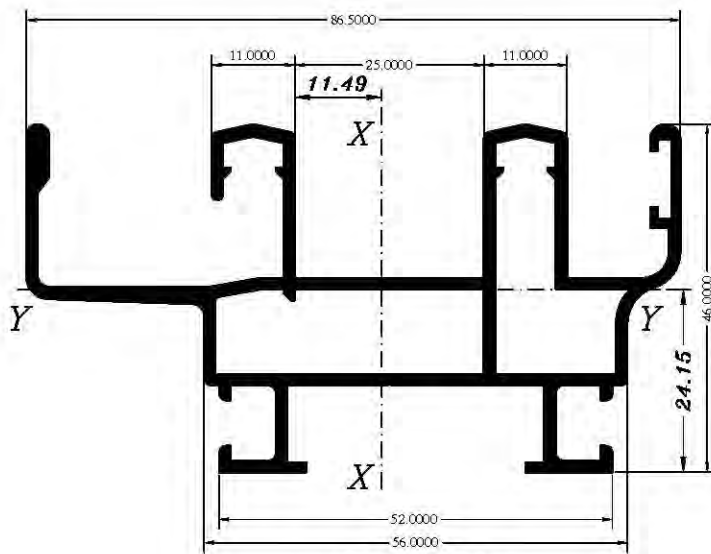


2 060 1152
1.533 Kg./ml.

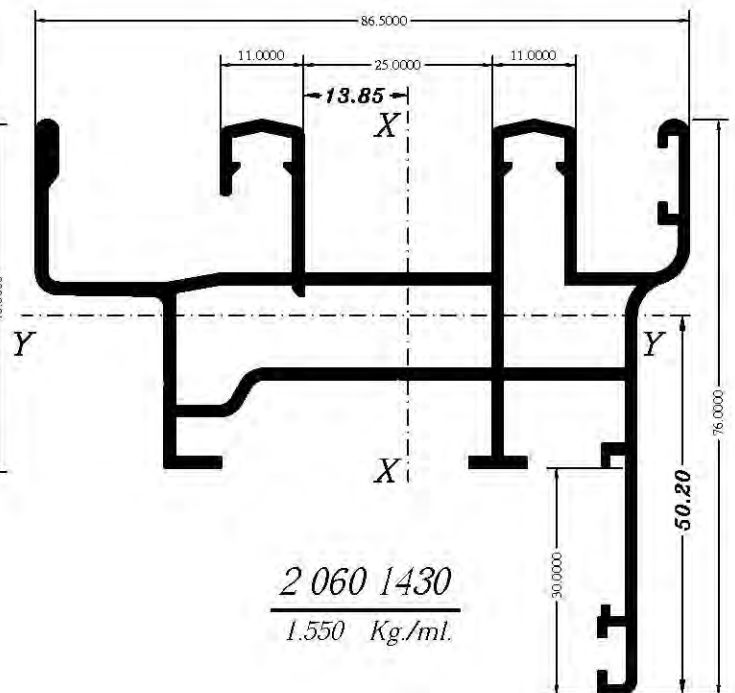
Profile No.	2 060 1020	2 060 1130	2 060 1150
Profile Old No.	TG 6027	TG 6013	TG 6015



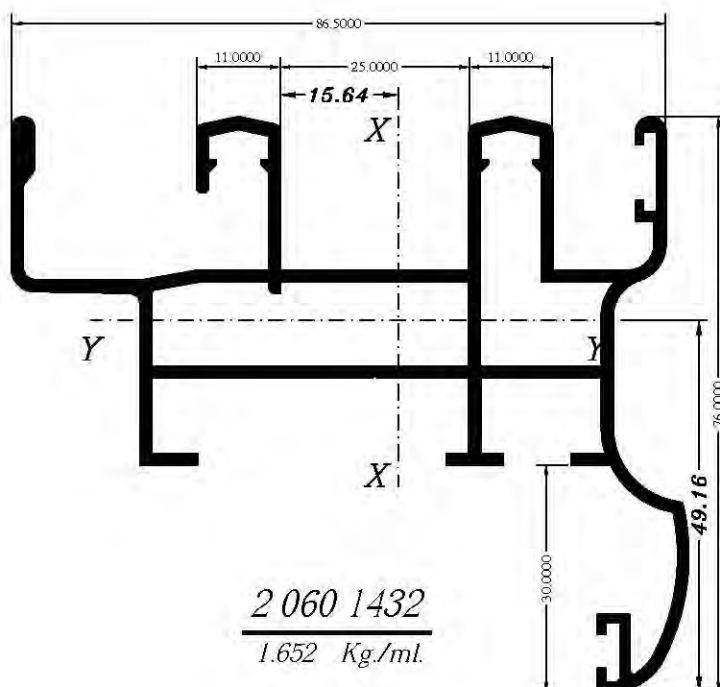
Profile No.	2 060 1320	2 060 1330	2 060 1350
Profile Old No.	TG 6028	TG 6022	TG 6026



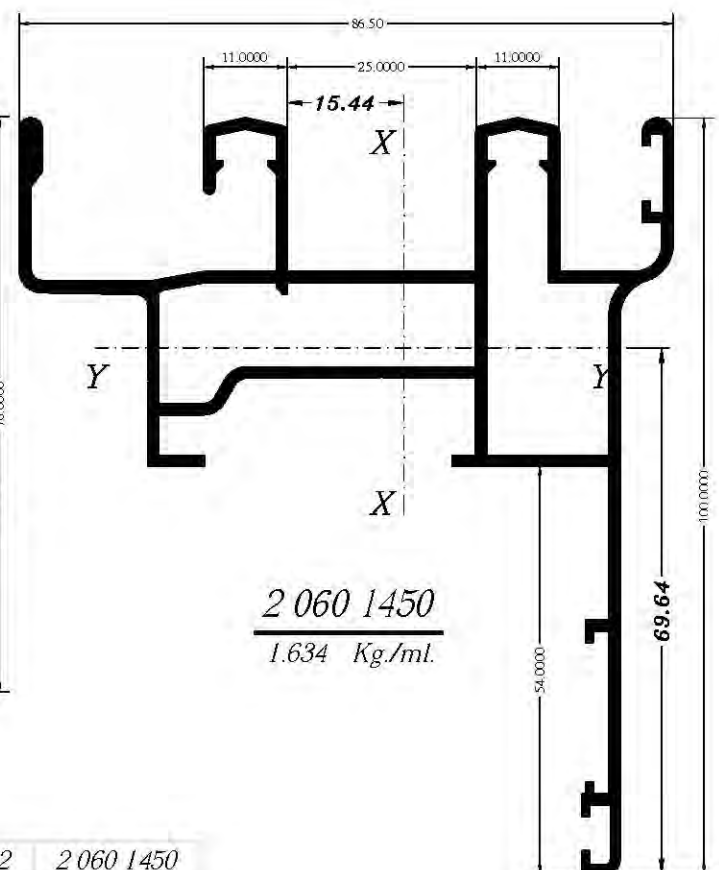
2 060 1420
1.469 Kg/ml.



2 060 1430
1.550 Kg/ml.

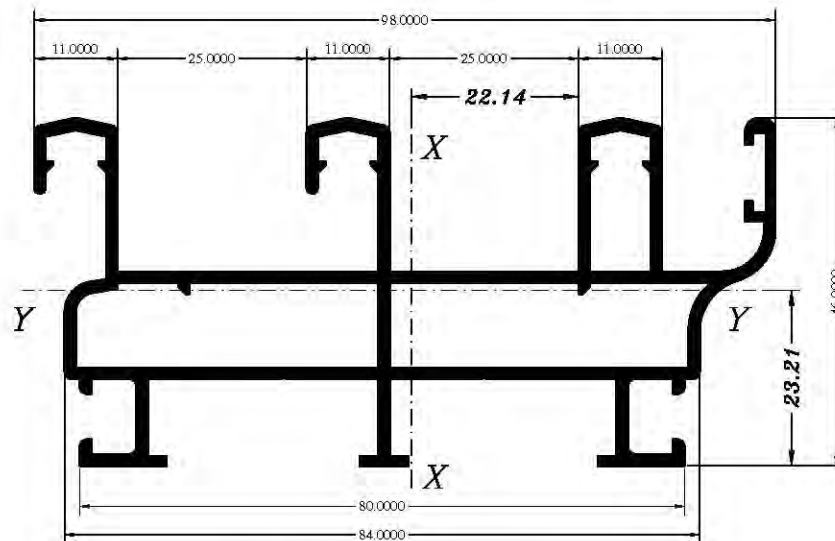
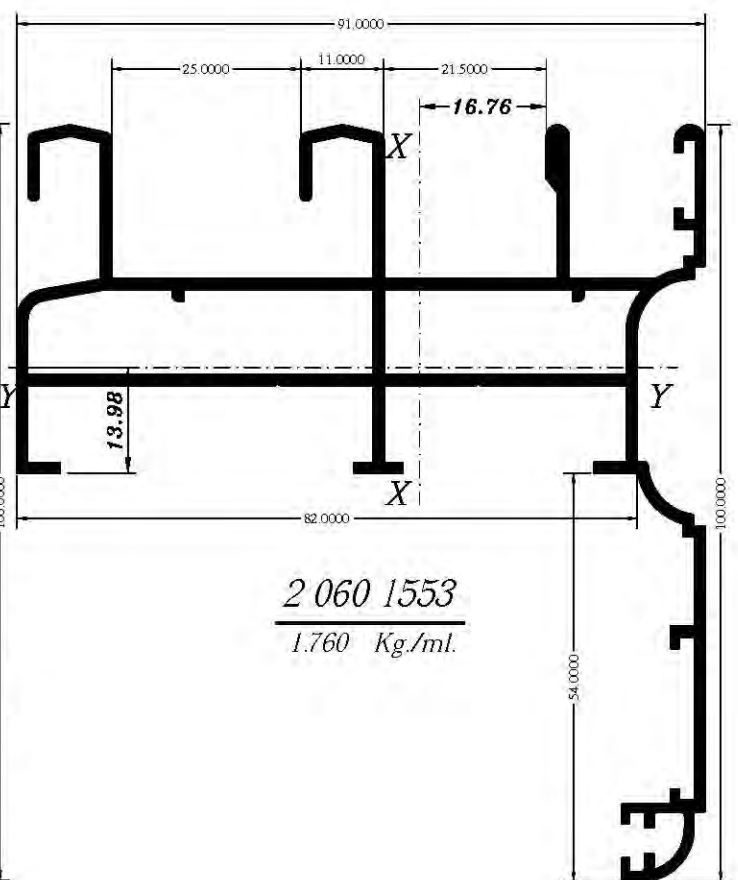
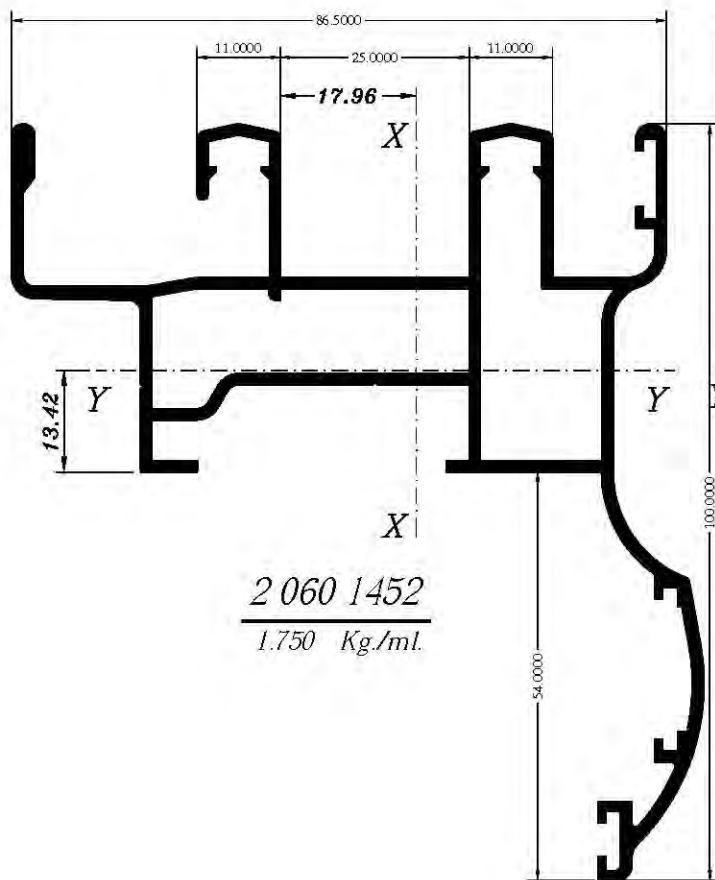


2 060 1432
1.652 Kg/ml.

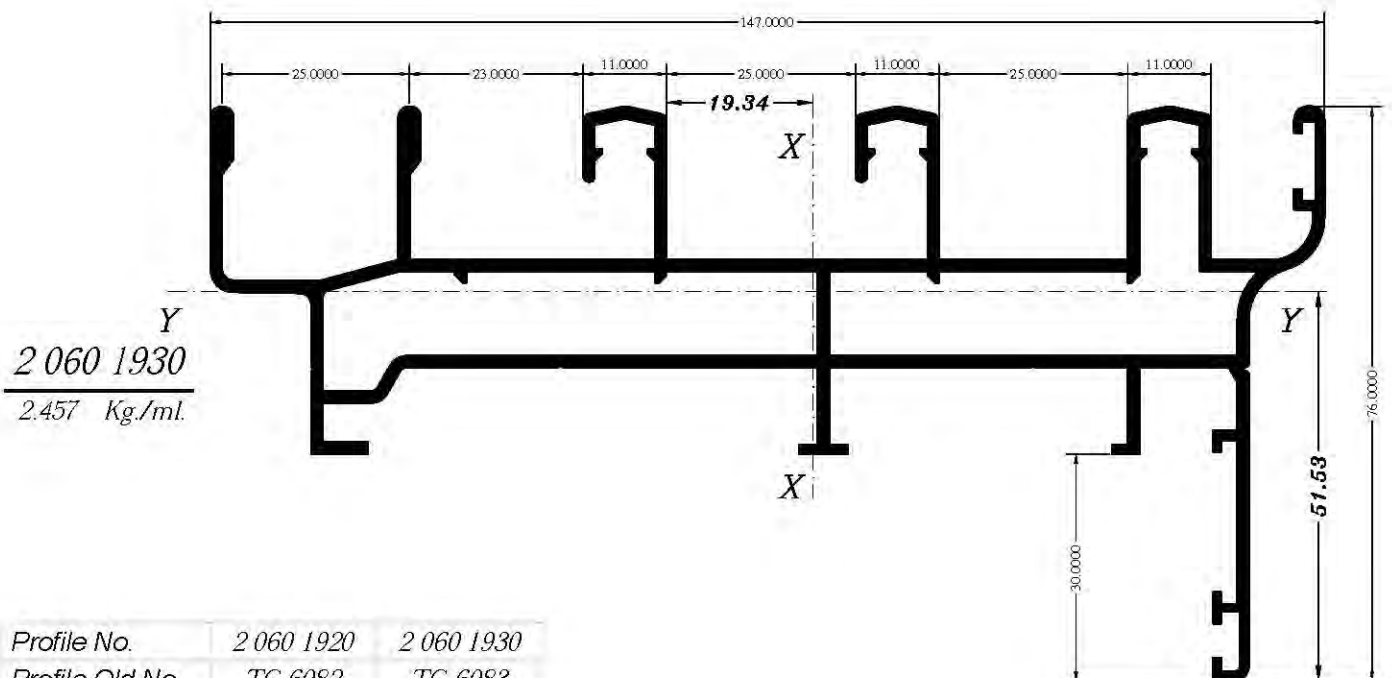
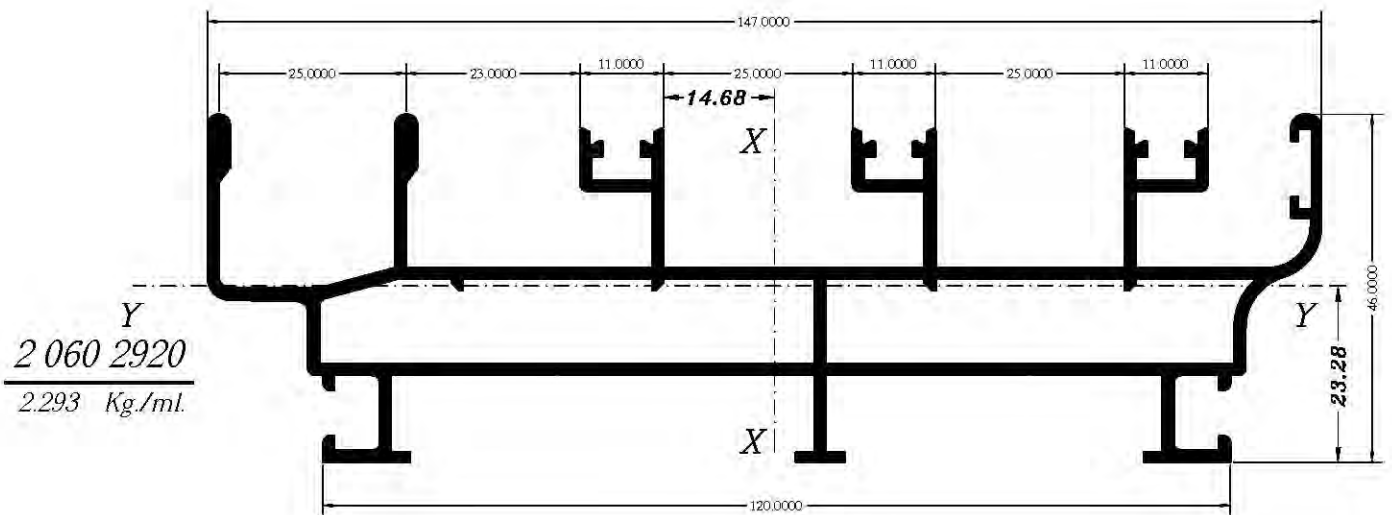
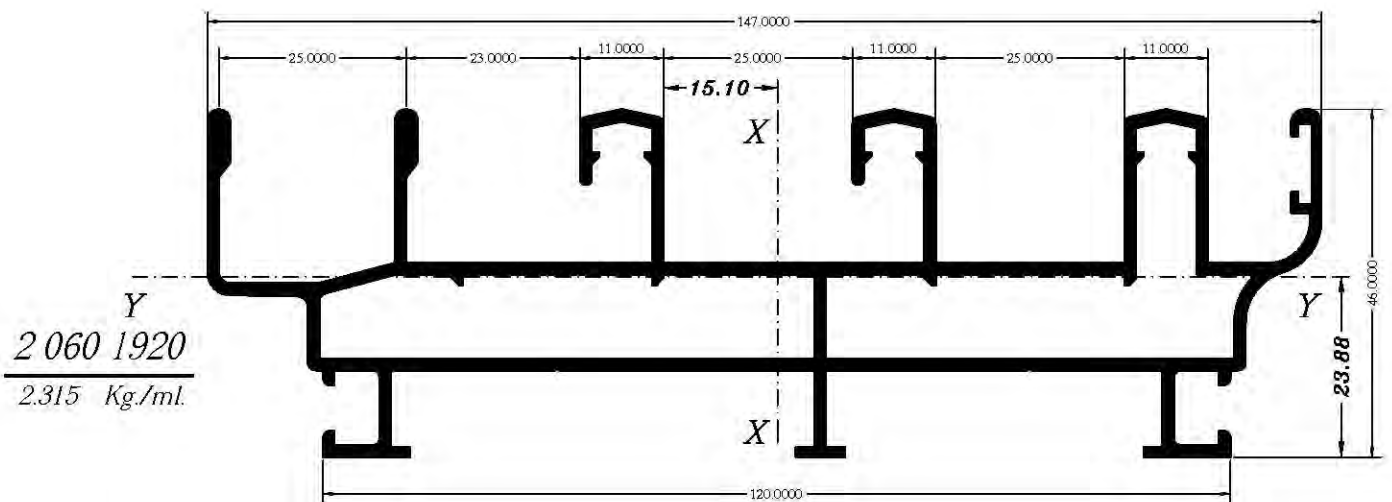


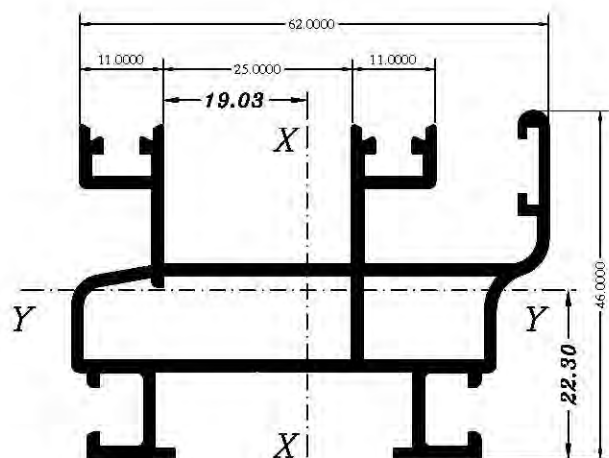
2 060 1450
1.634 Kg/ml.

Profile No.	2 060 1420	2 060 1430	2 060 1432	2 060 1450
Profile Old No.	TG 6023	TG 6024	TG 6020	TG 6025

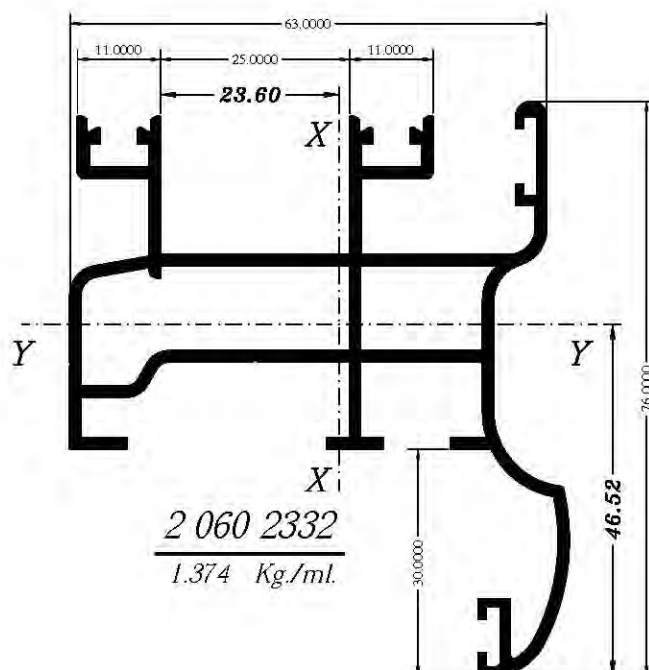


Profile No.	2 060 1452	2 060 1553	2 060 1820
Profile Old No.	TG 6025.2	TG 6019.3	TG 6038

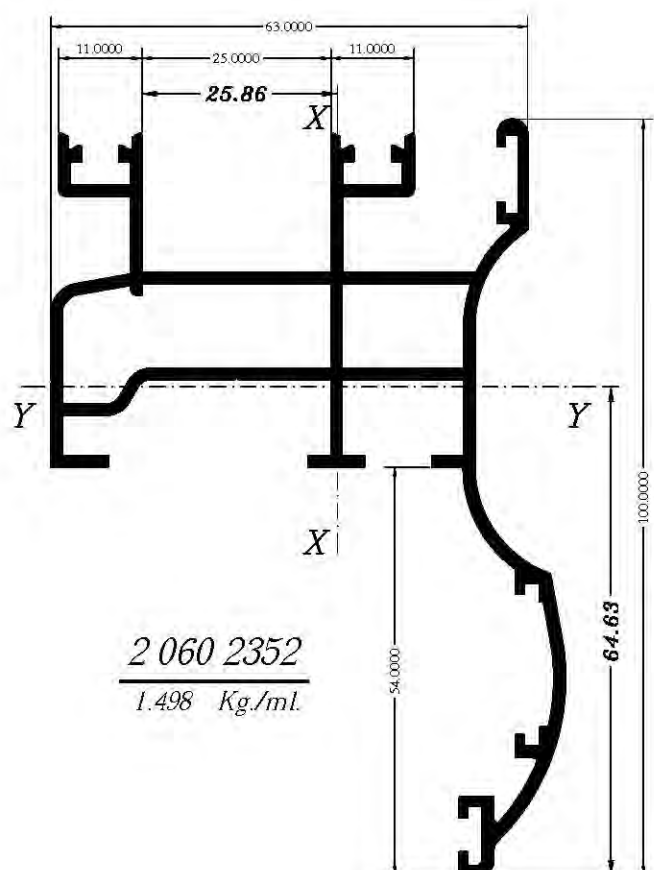




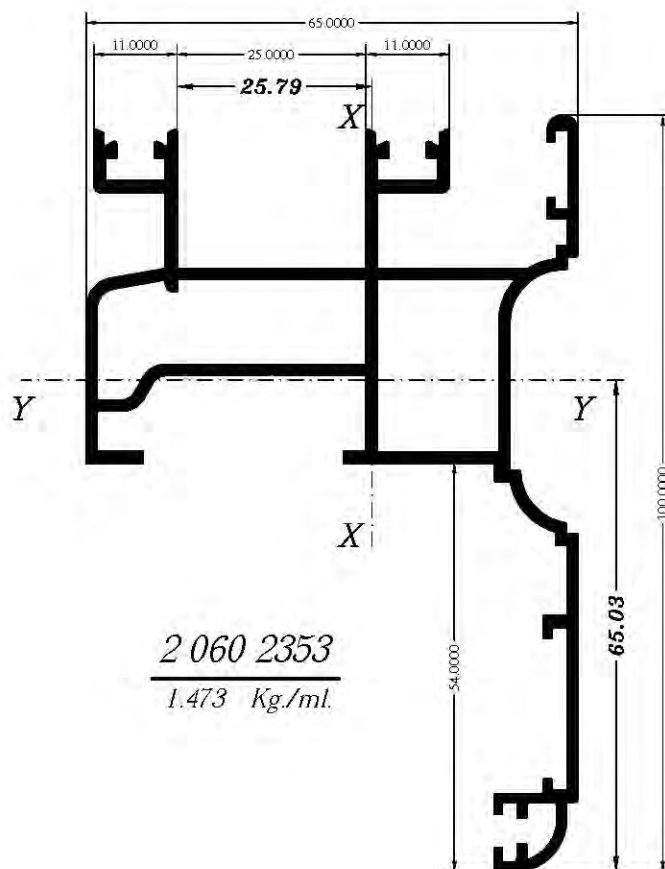
2 060 2320
1.175 Kg./ml.



2 060 2332
1.374 Kg./ml.

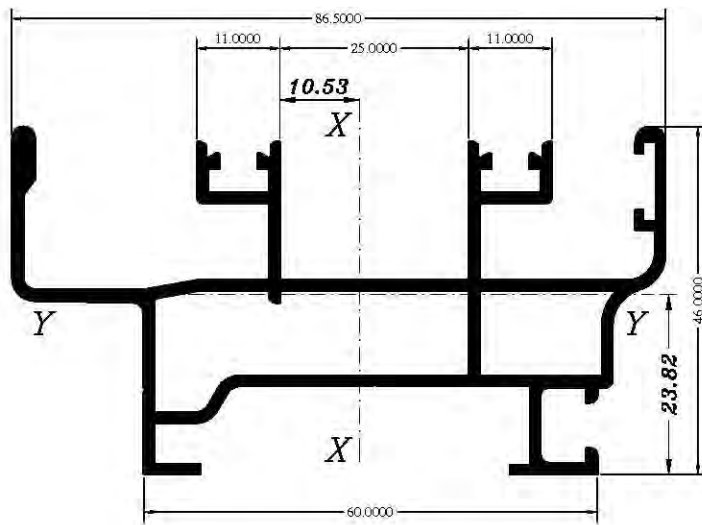


2 060 2352
1.498 Kg./ml.

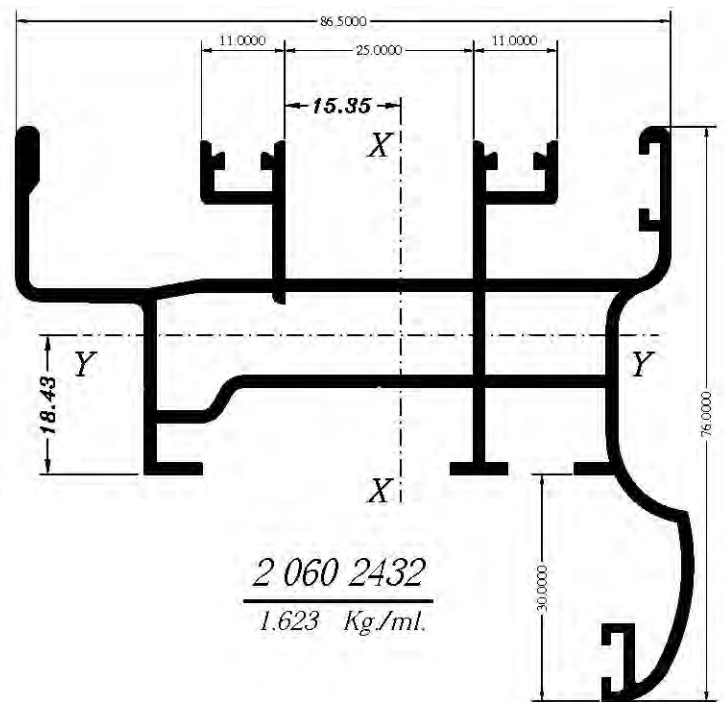


2 060 2353
1.473 Kg./ml.

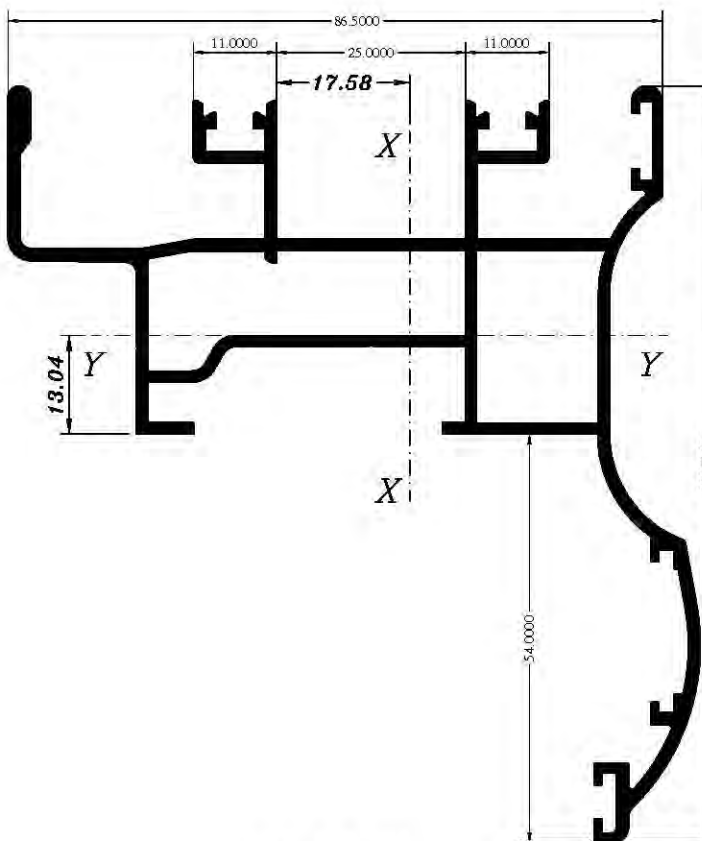
Profile No.	2 060 2320	2 060 2332	2 060 2352	2 060 2353
Profile Old No.	TG 6031	TG 6032.2	TG 6033.2	TG 6033.3



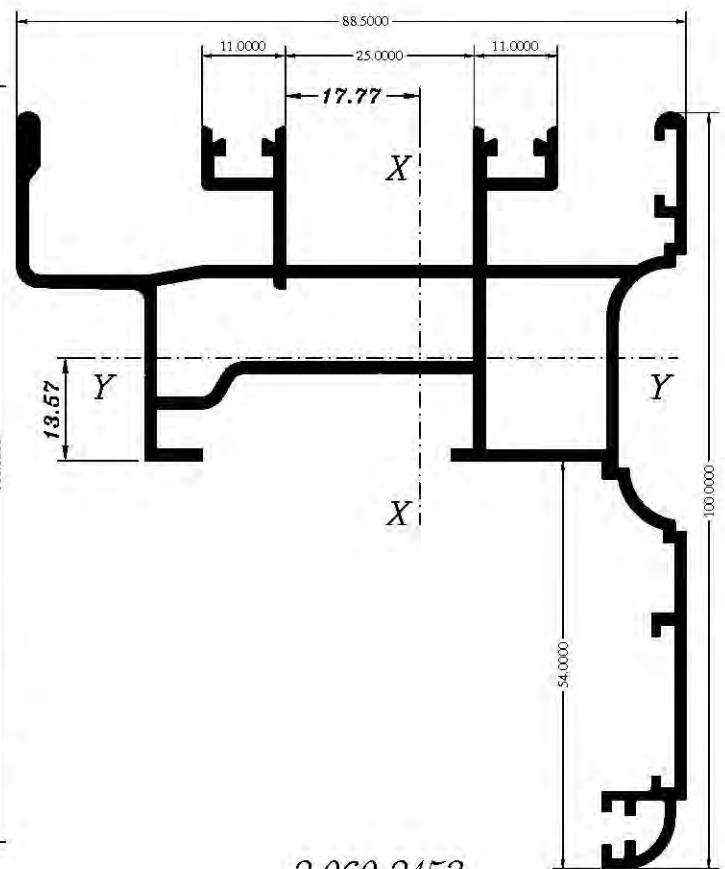
2 060 2410
1.415 Kg./ml.



2 060 2432
1.623 Kg./ml.



2 060 2452
1.717 Kg./ml.

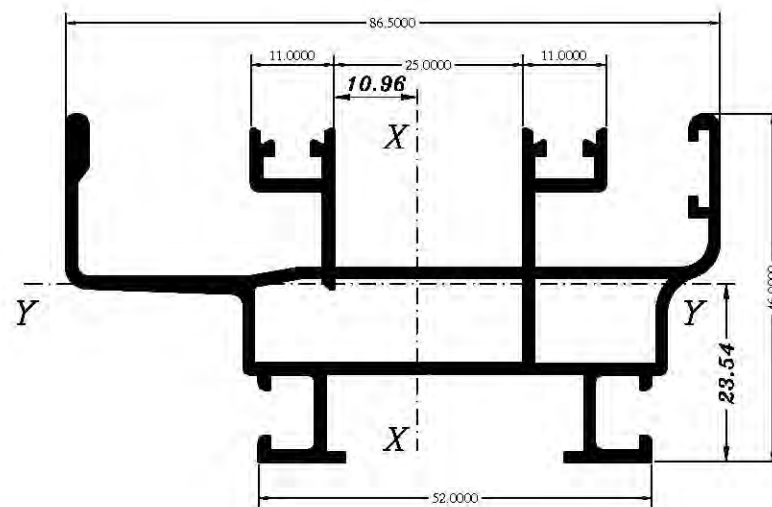


2 060 2453
1.718 Kg./ml.

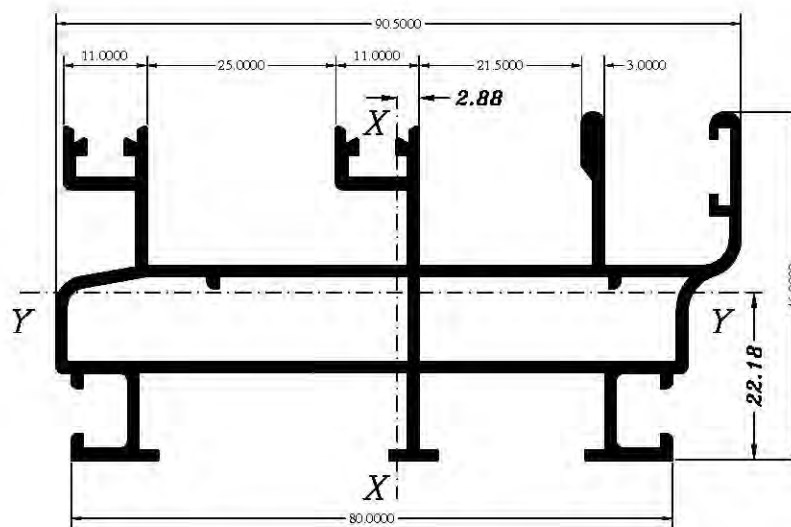
Profile No.	2 060 2410	2 060 2432	2 060 2452	2 060 2453
Profile Old No.	TG 6035	TG 6036.2	TG 6037.2	TG 6037.3



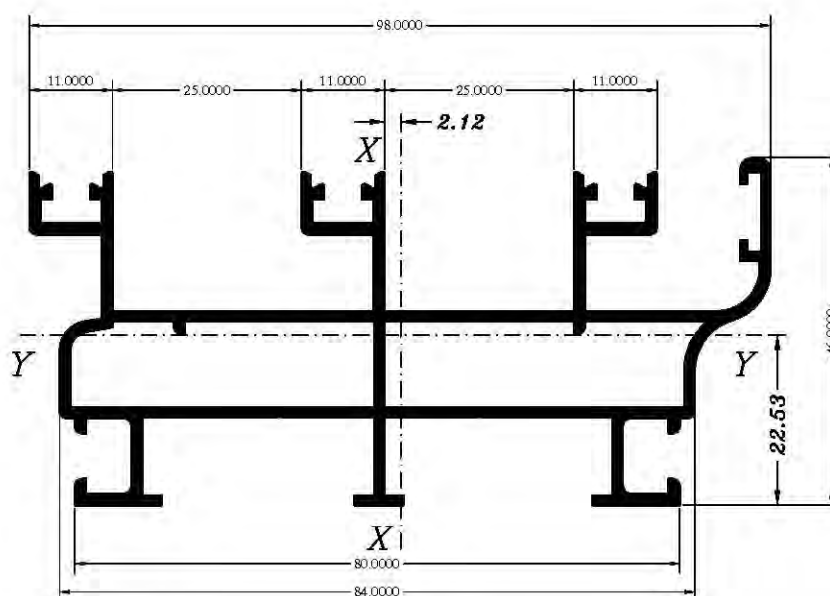
2 060 2420
1.42l Kg./ml.



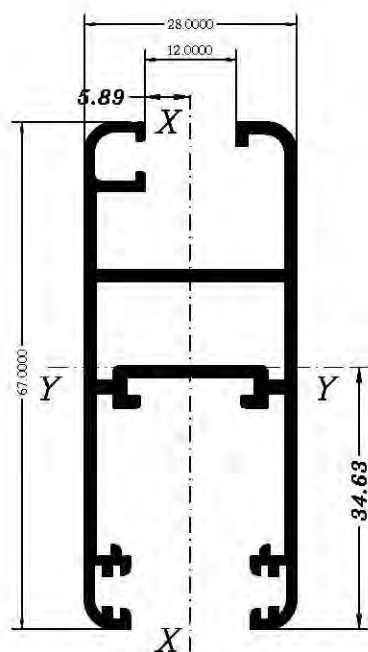
2 060 2520
1.570 Kg./ml.



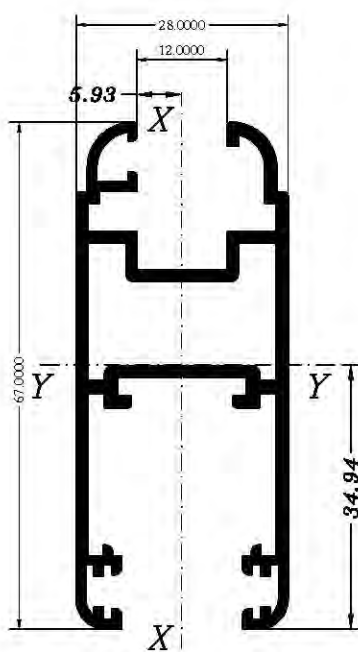
2 060 2820
1.683 Kg./ml.



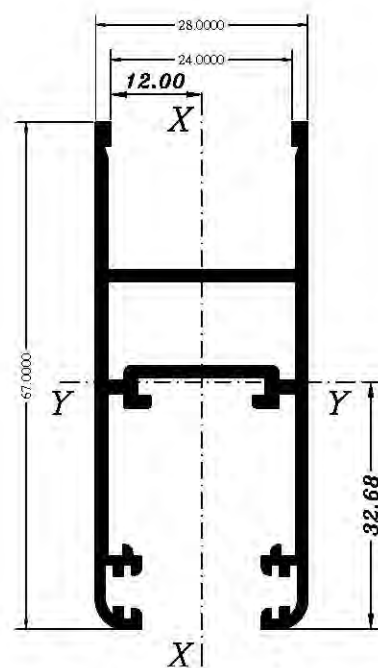
Profile No.	2 060 2520	2 060 2820
Profile Old No.	TG 6029	TG 6039



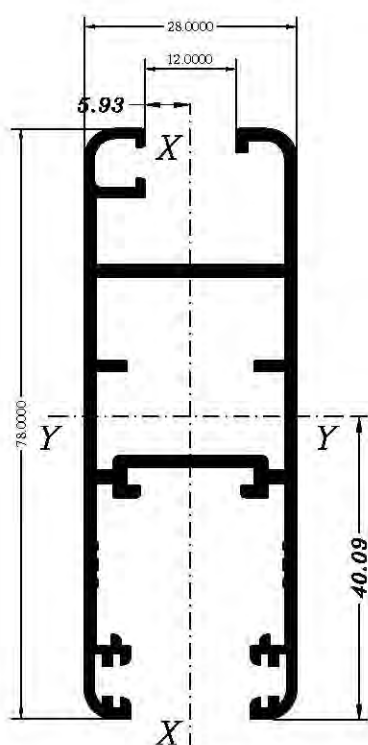
2 060 4110
0.942 Kg./ml.



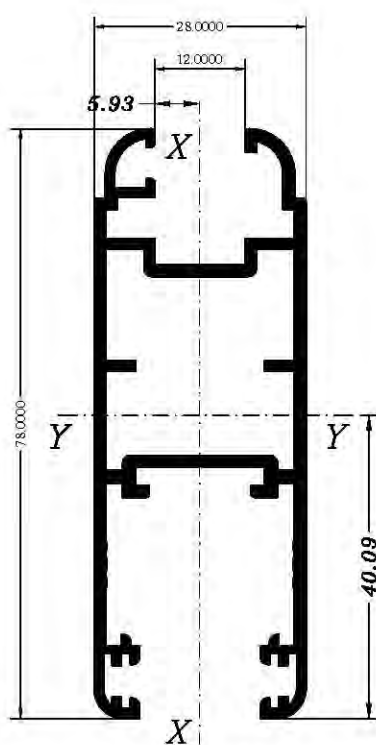
2 060 4113
0.965 Kg./ml.



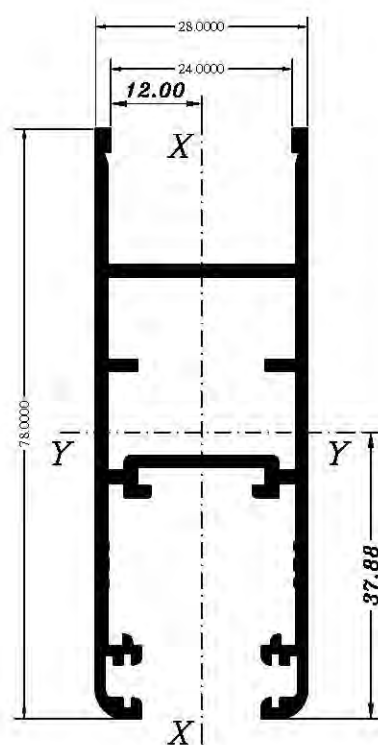
2 060 4220
0.883 Kg./ml.



2 060 4510
1.062 Kg./ml.

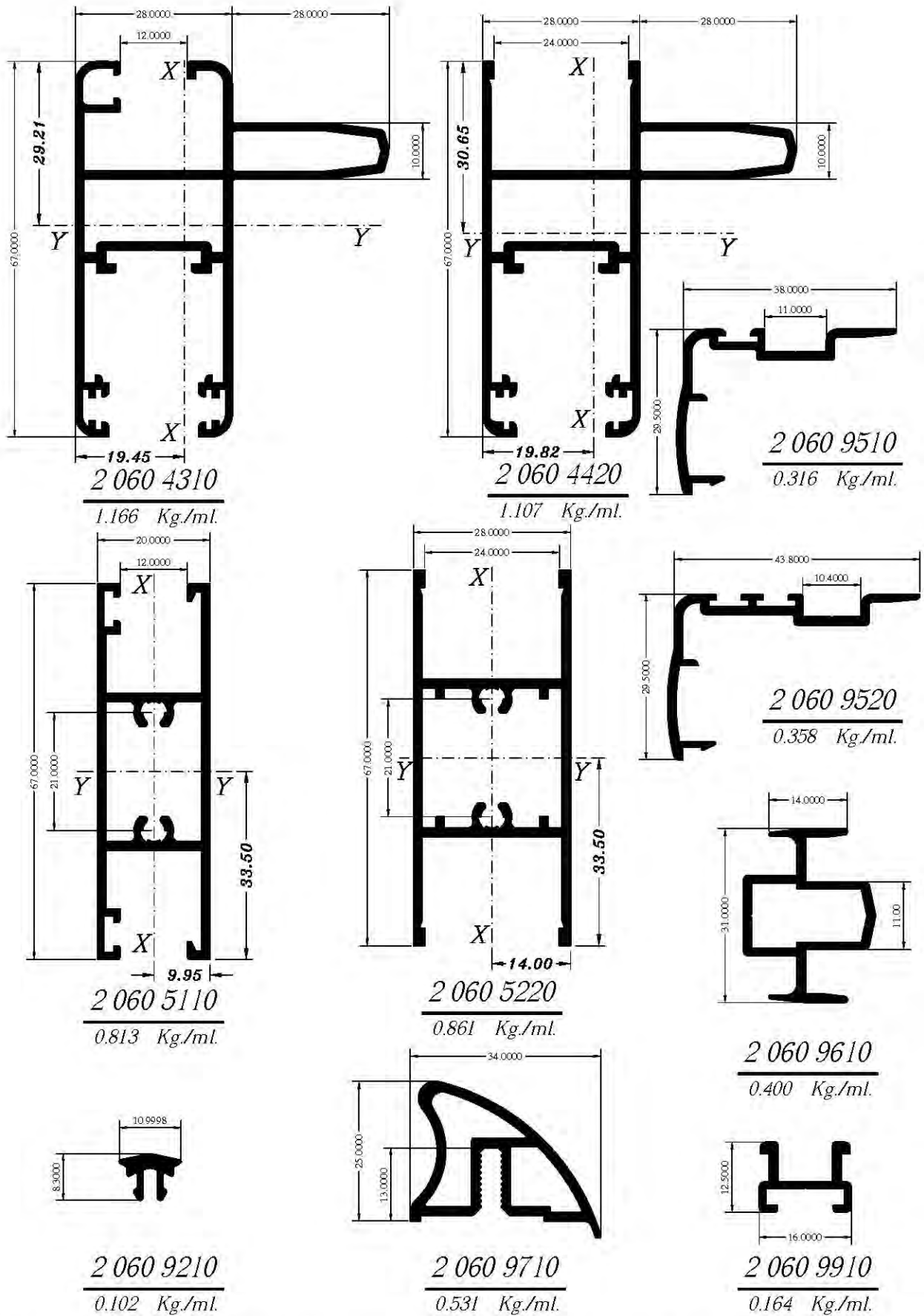


2 060 4613
1.074 Kg./ml.

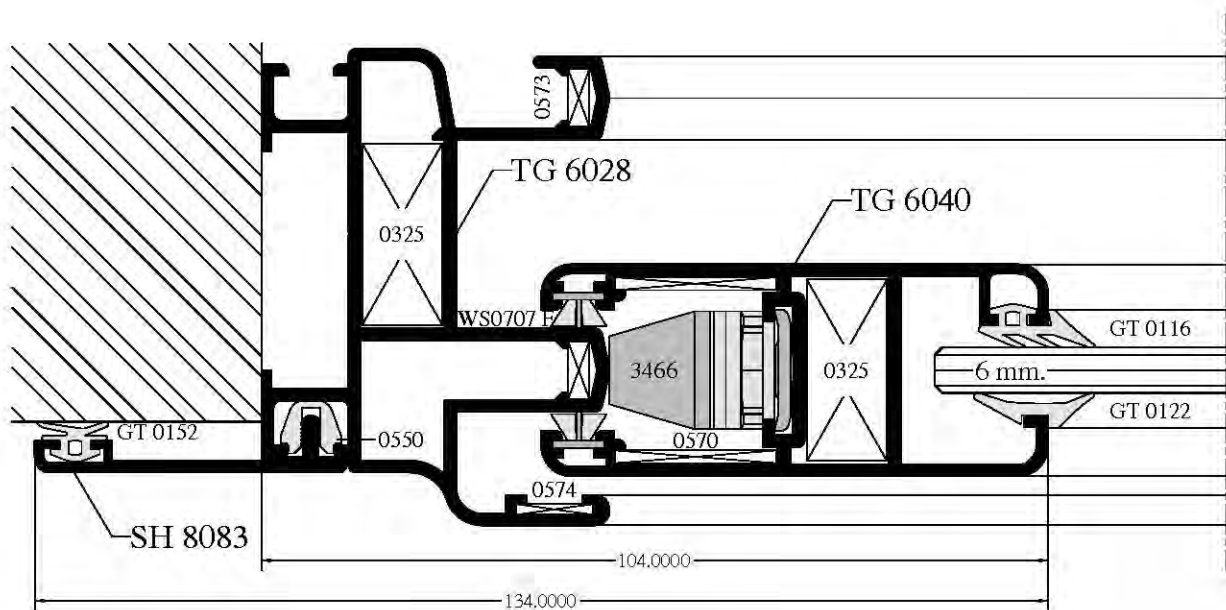
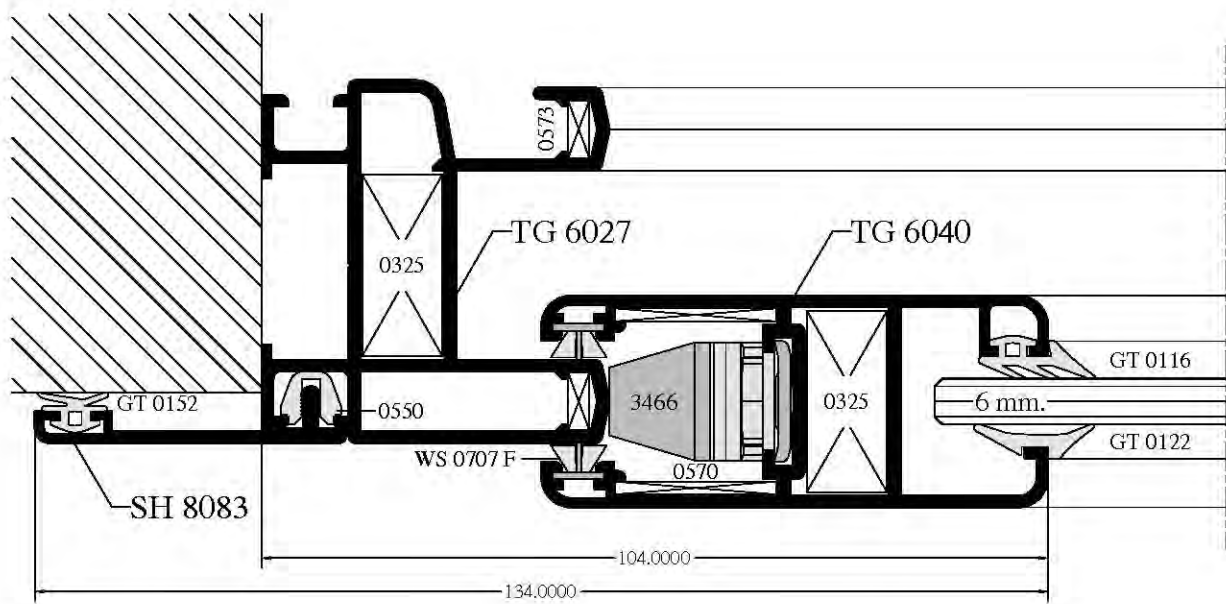
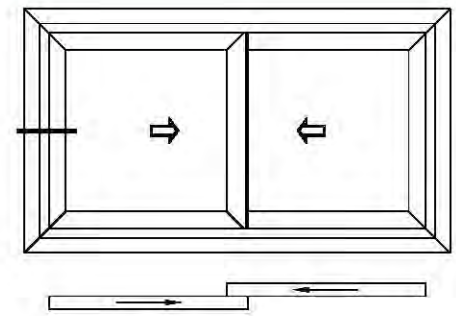


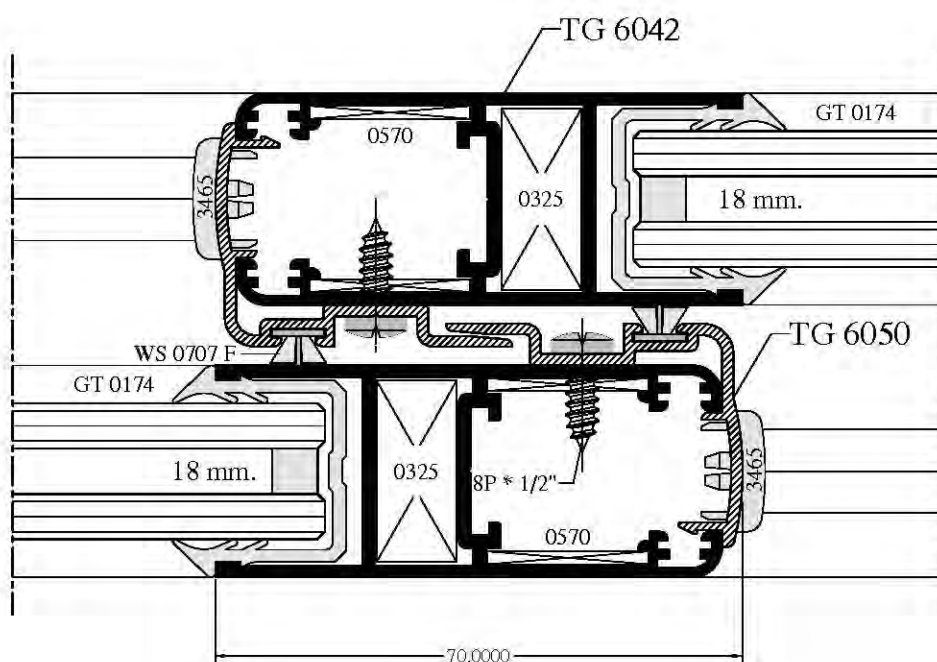
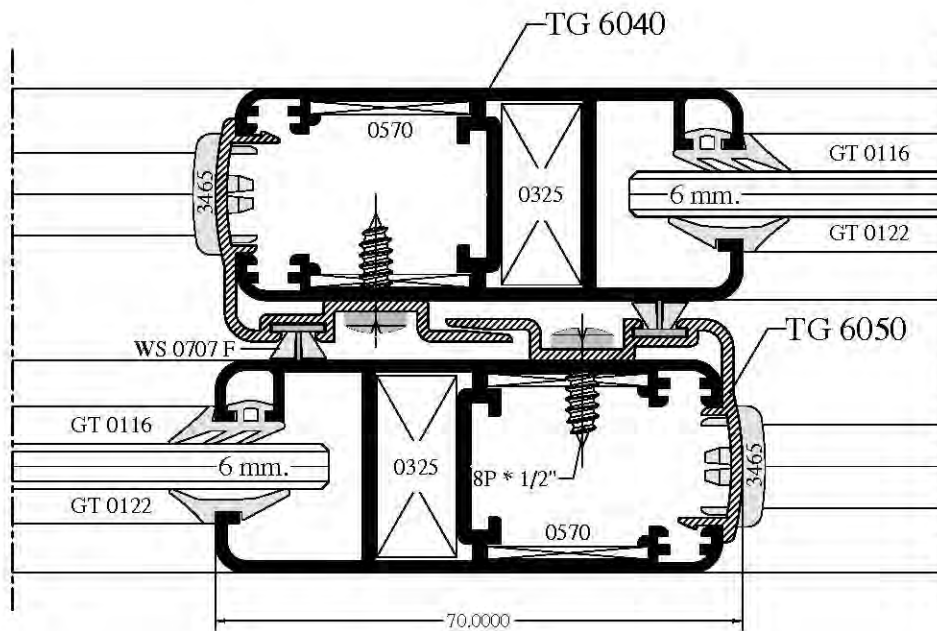
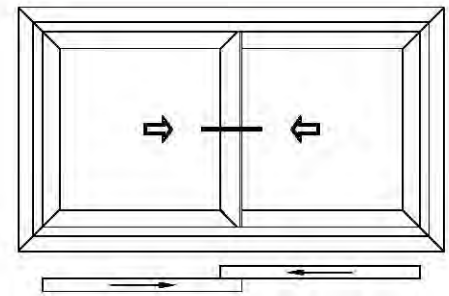
2 060 4620
1.008 Kg./ml.

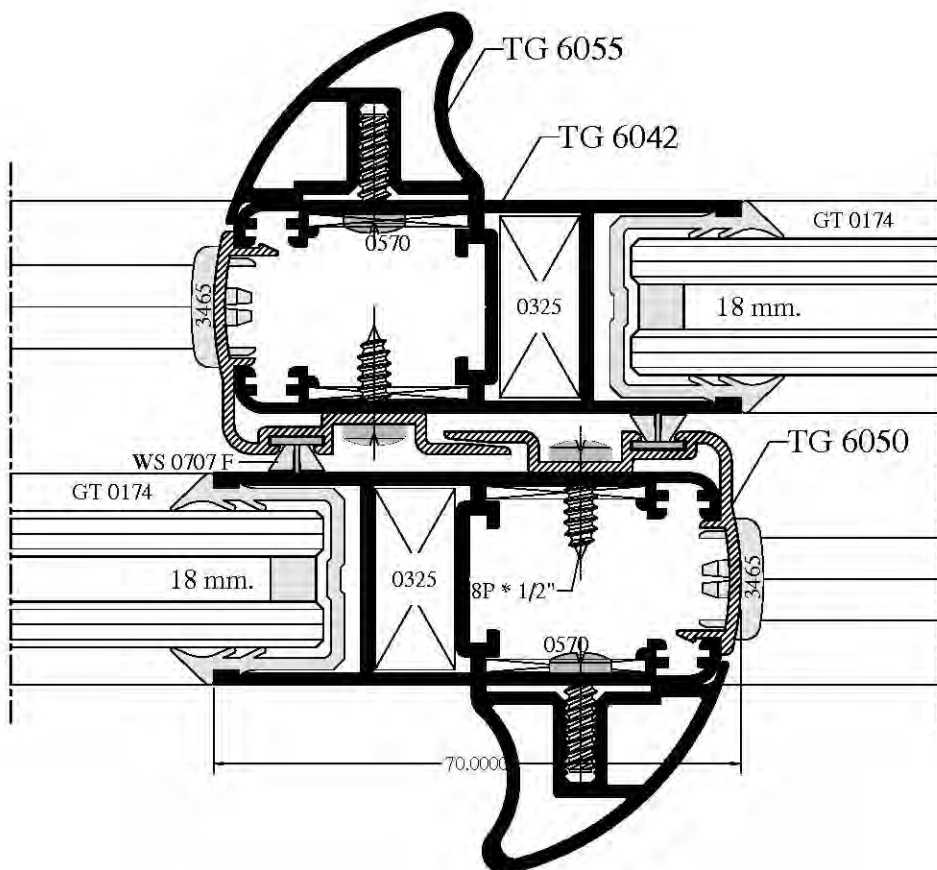
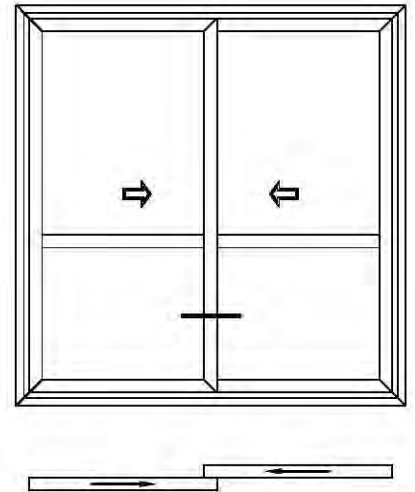
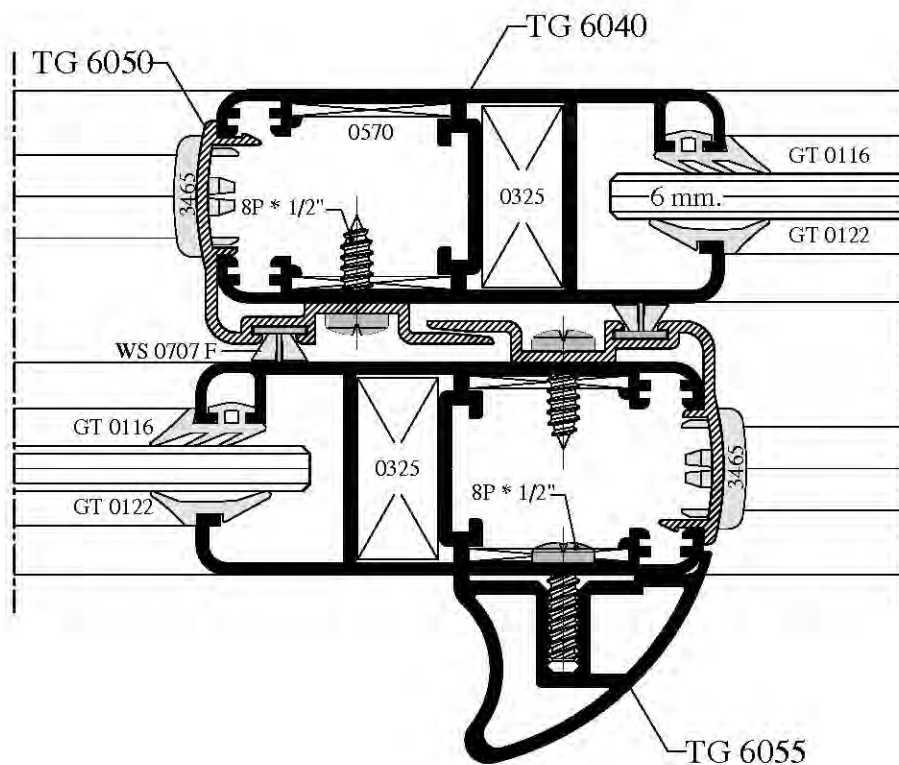
Profile No.	2 060 4110	2 060 4113	2 060 4220
Profile Old No.	TG 6040	TG 6040.3	TG 6042

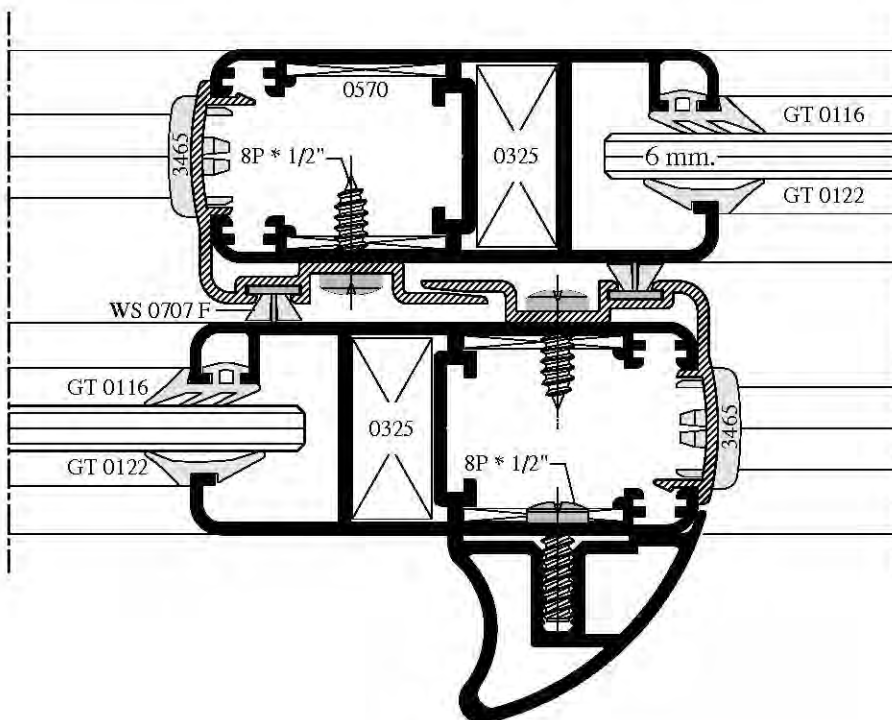
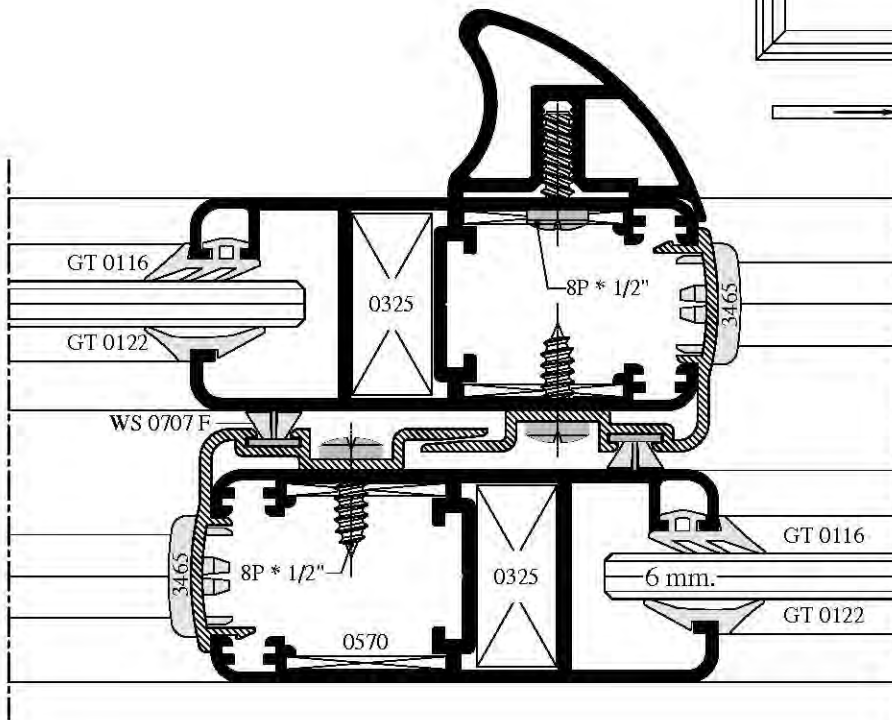
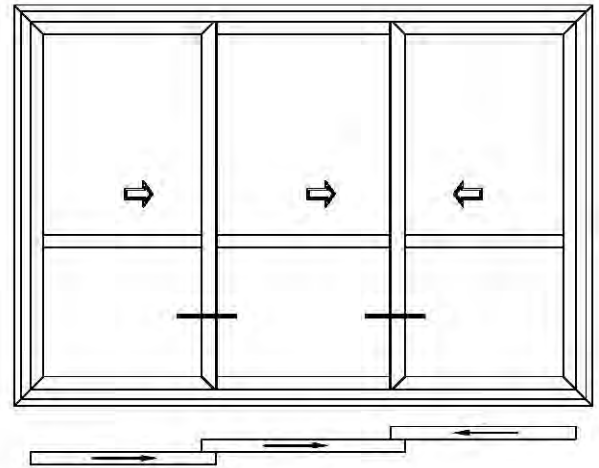


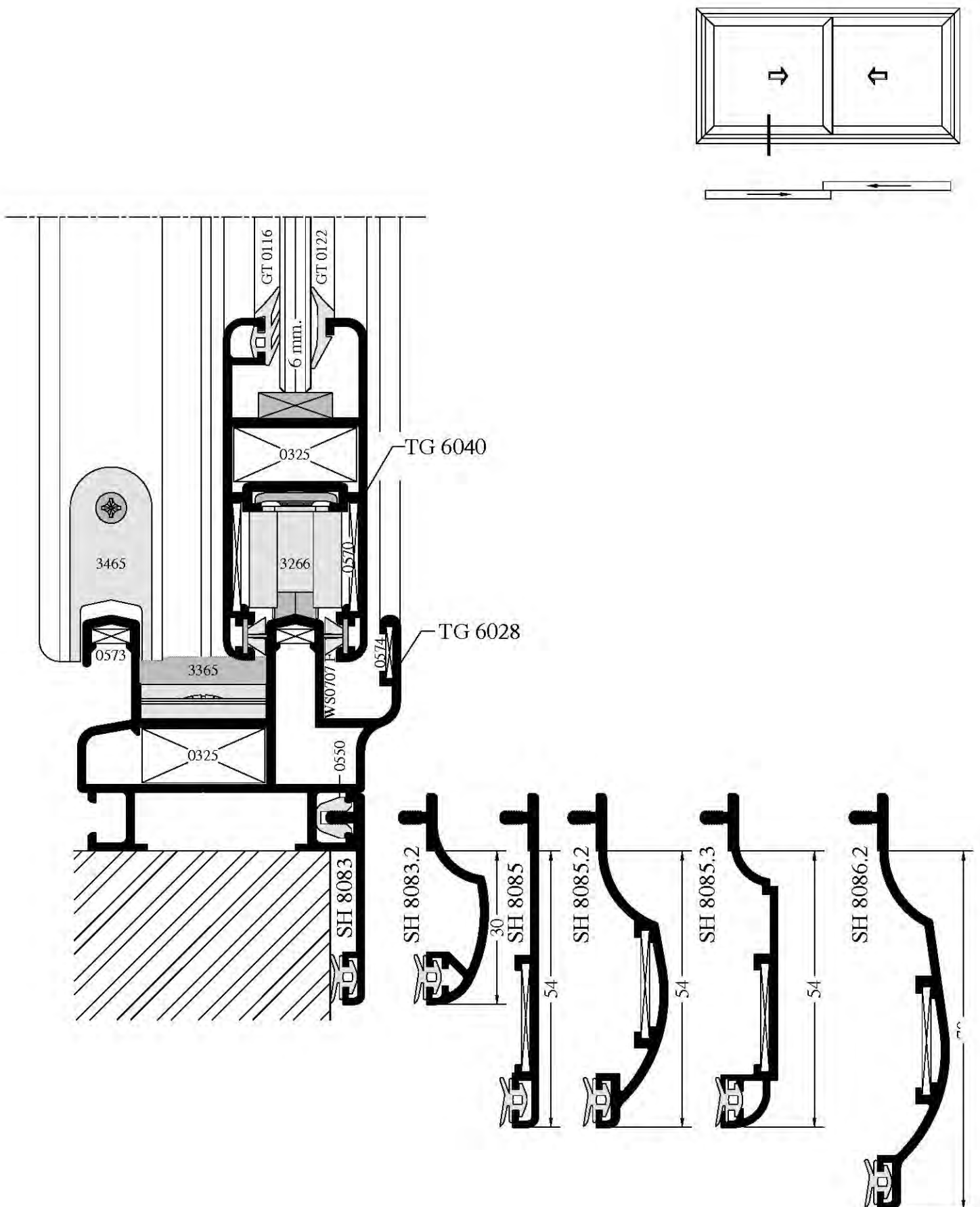
Profile No.	2 060 4420	2 060 5110	2 060 5220	2 060 9210	2 060 9510	2 060 9610	2 060 9710
Profile Old No.	TG 6042.1	TG 6070	TG 6072	TG 6091	TG 6050	TG 6095	TG 6055

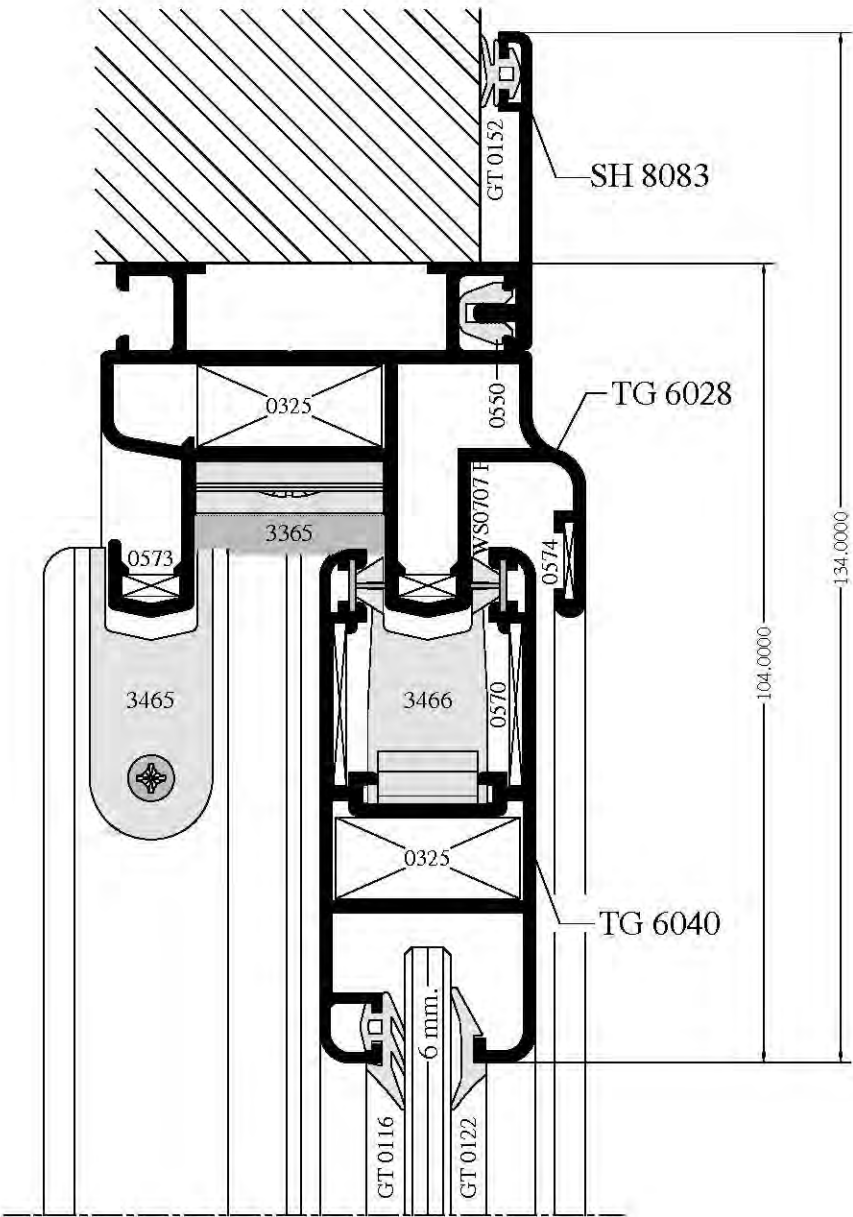
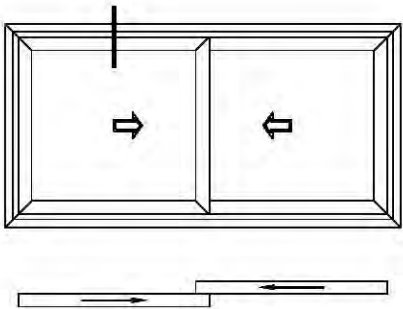


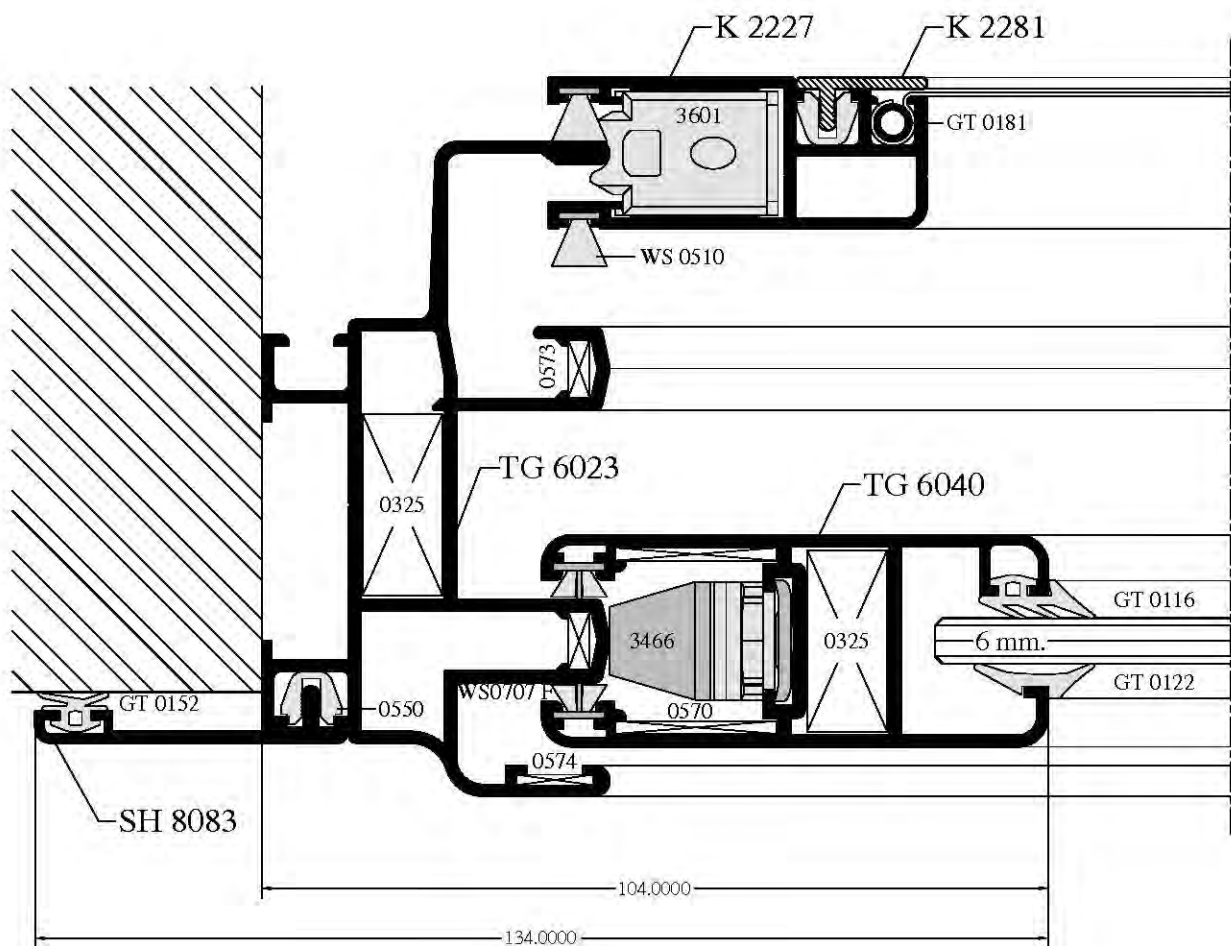
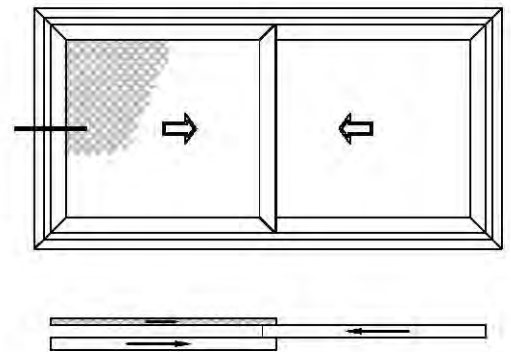


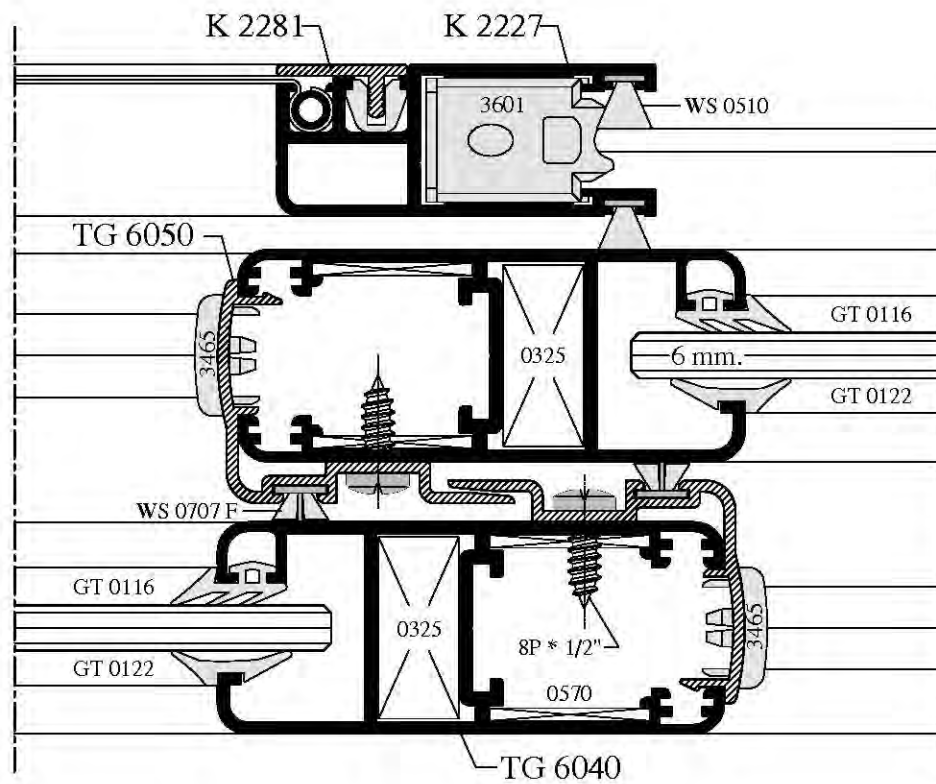
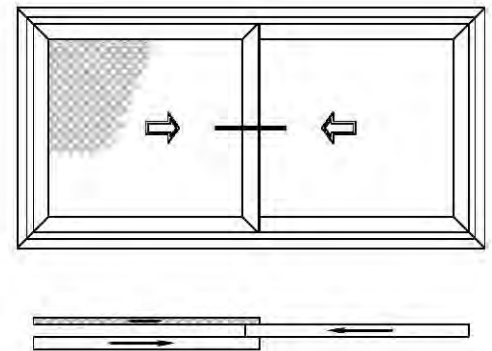


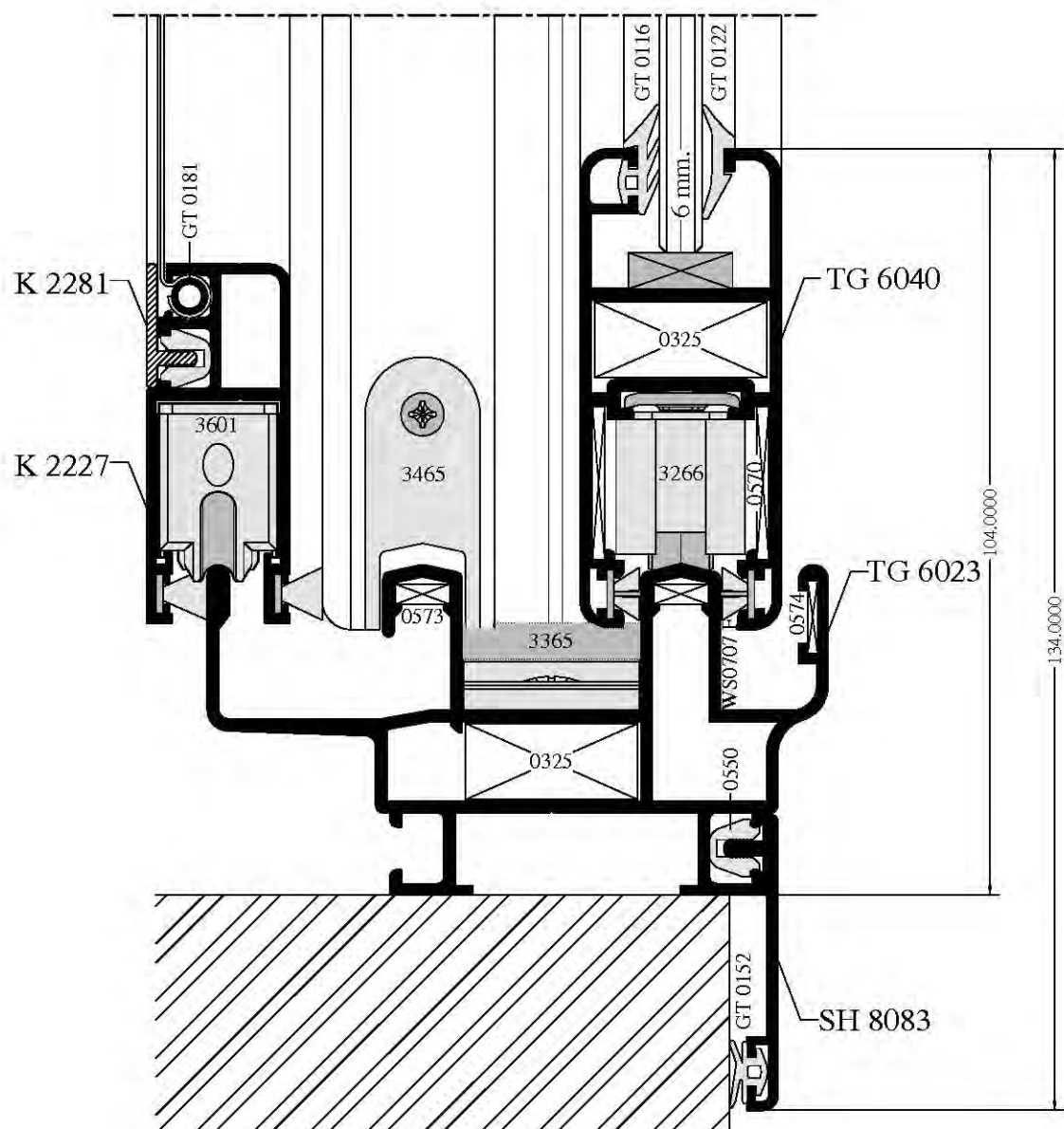
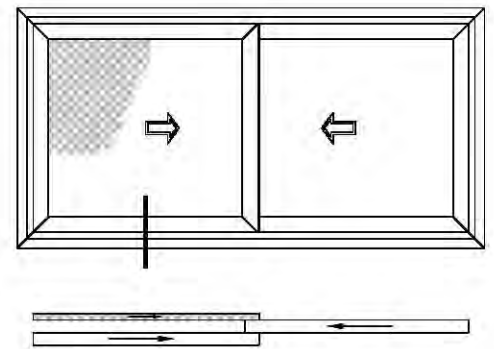


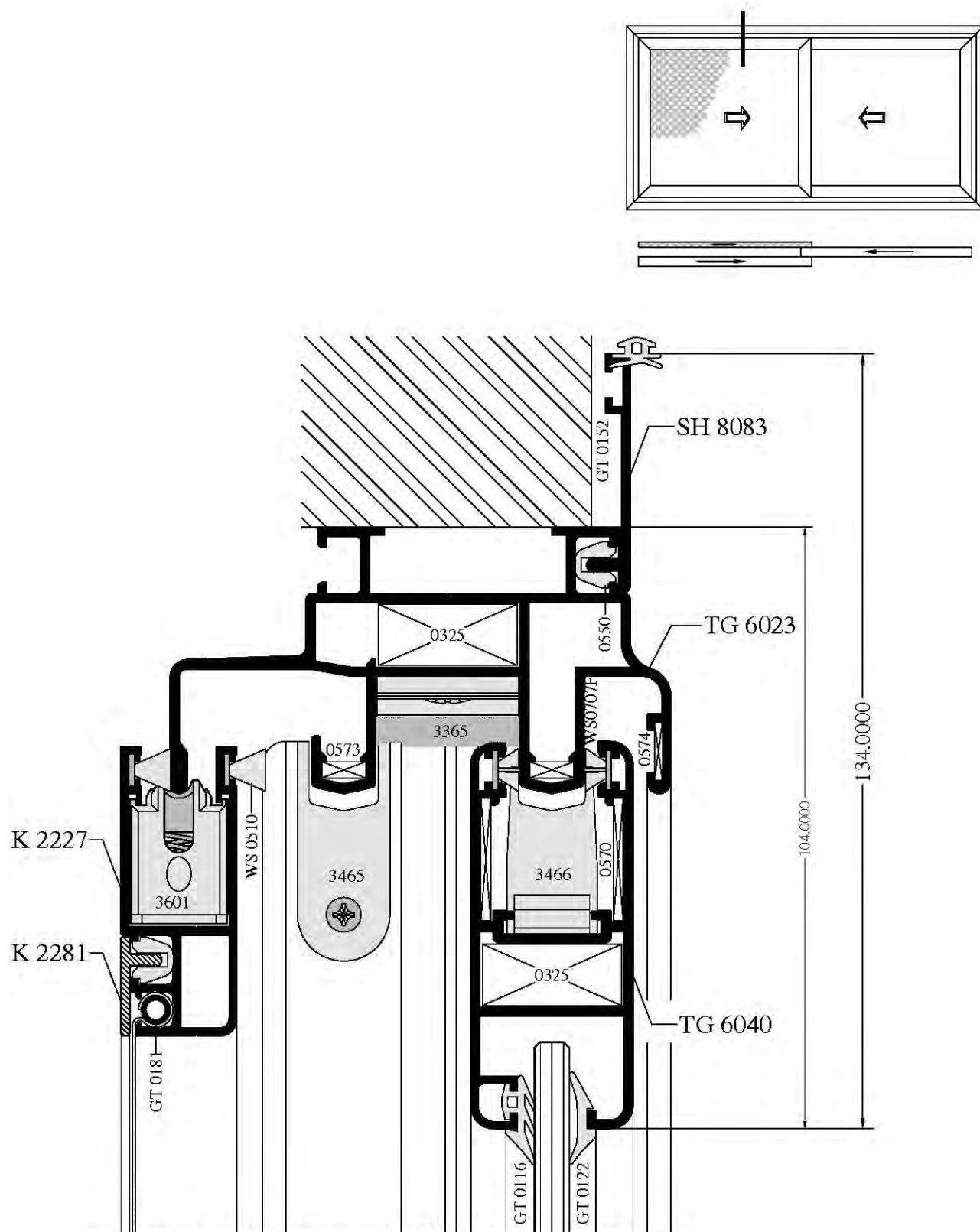


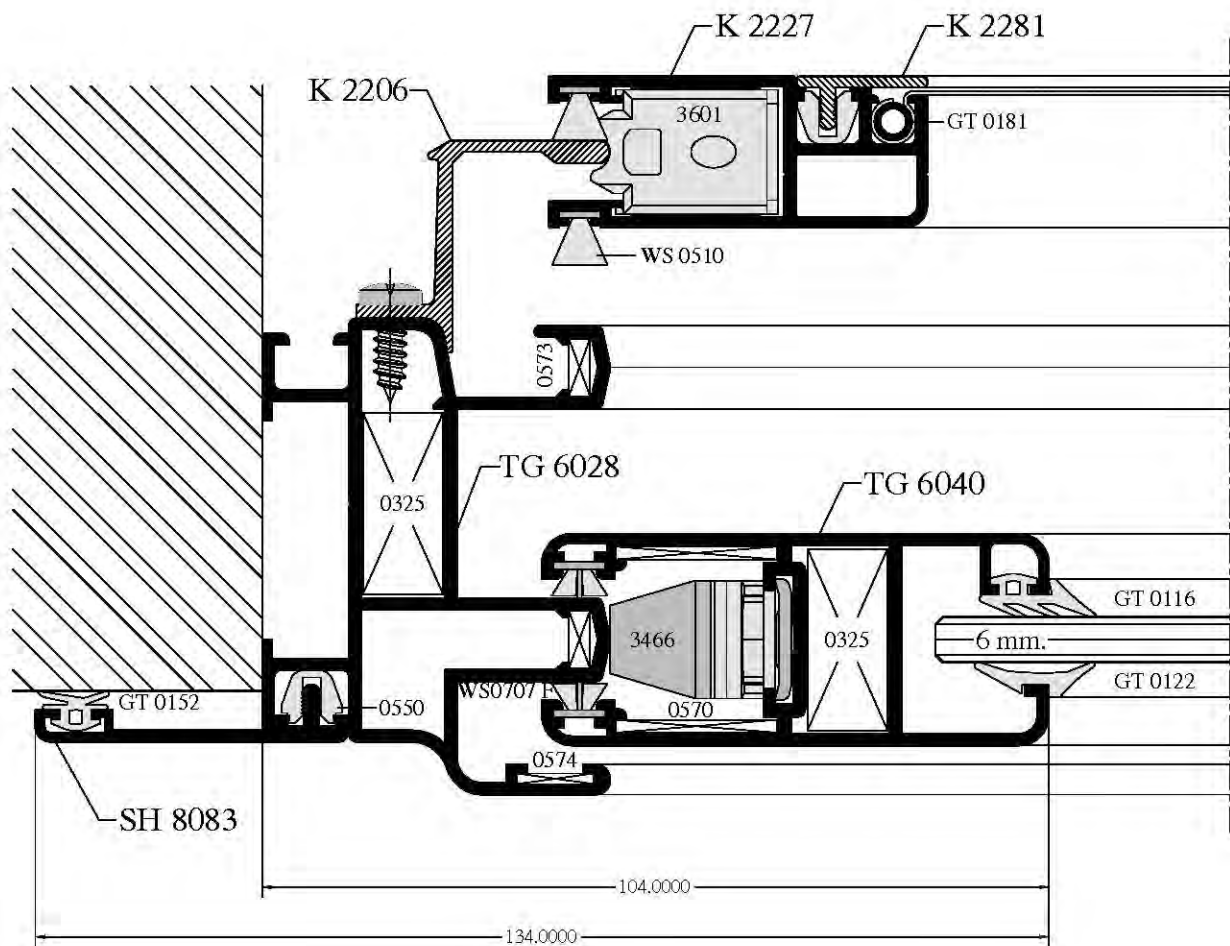
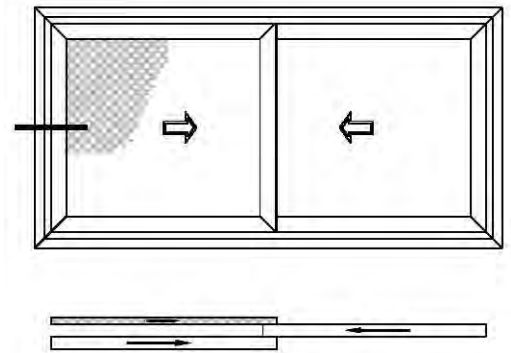


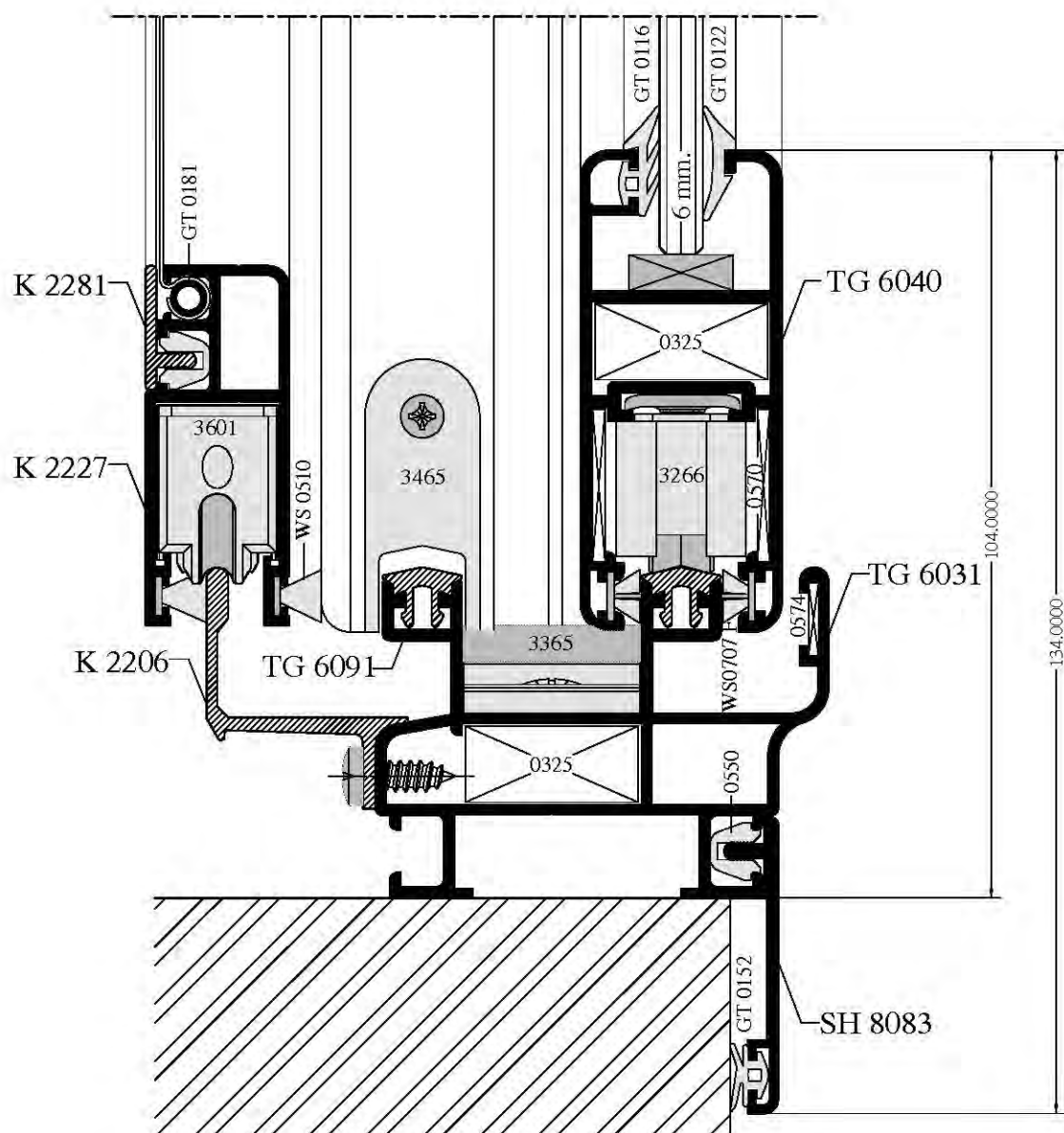
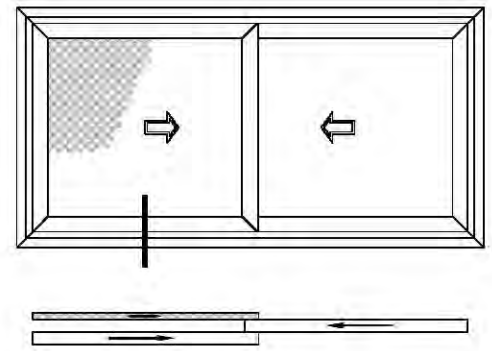


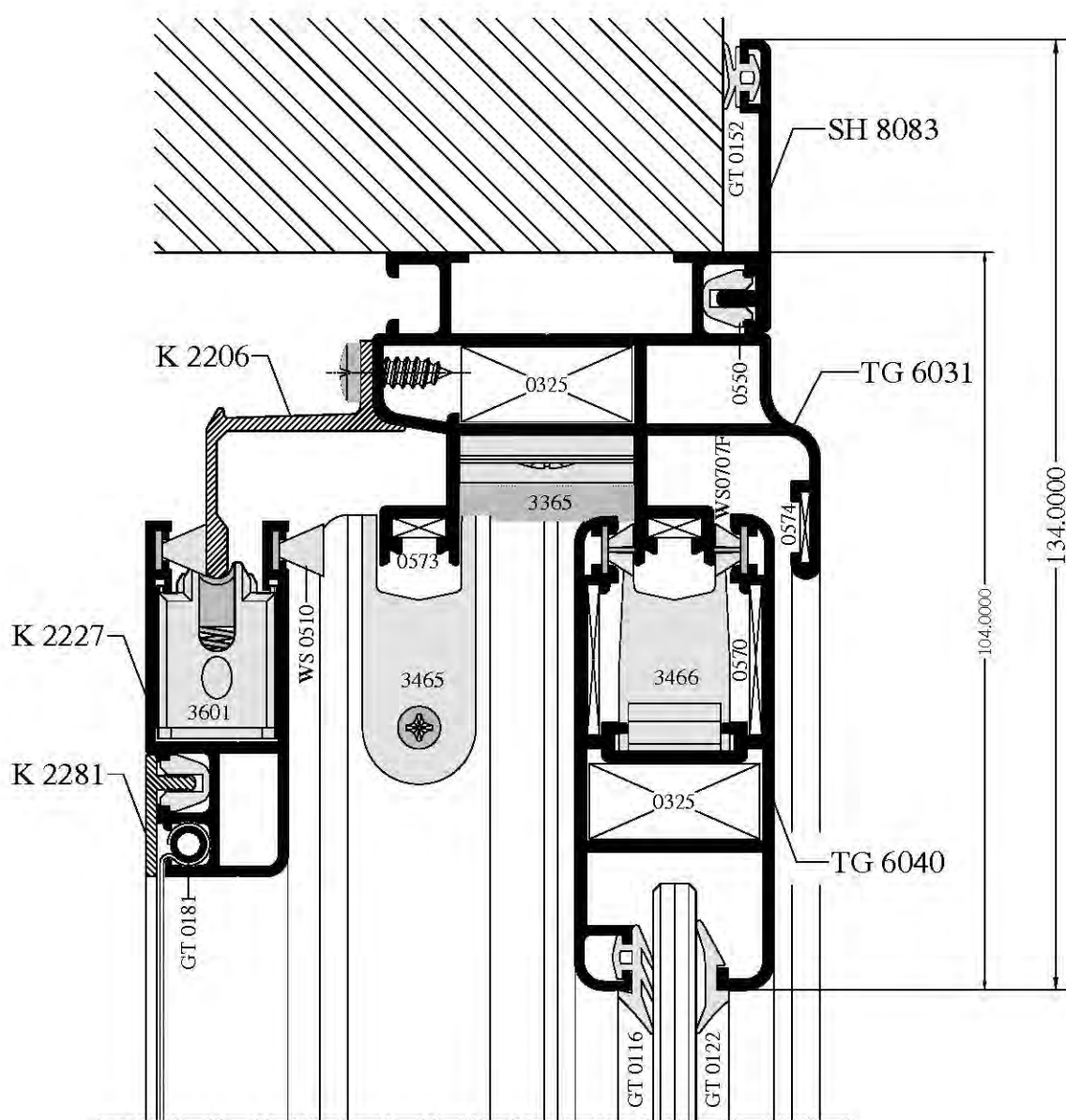
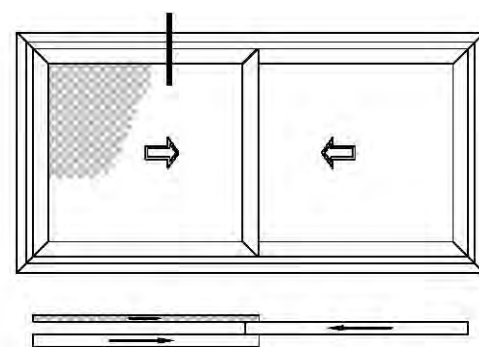


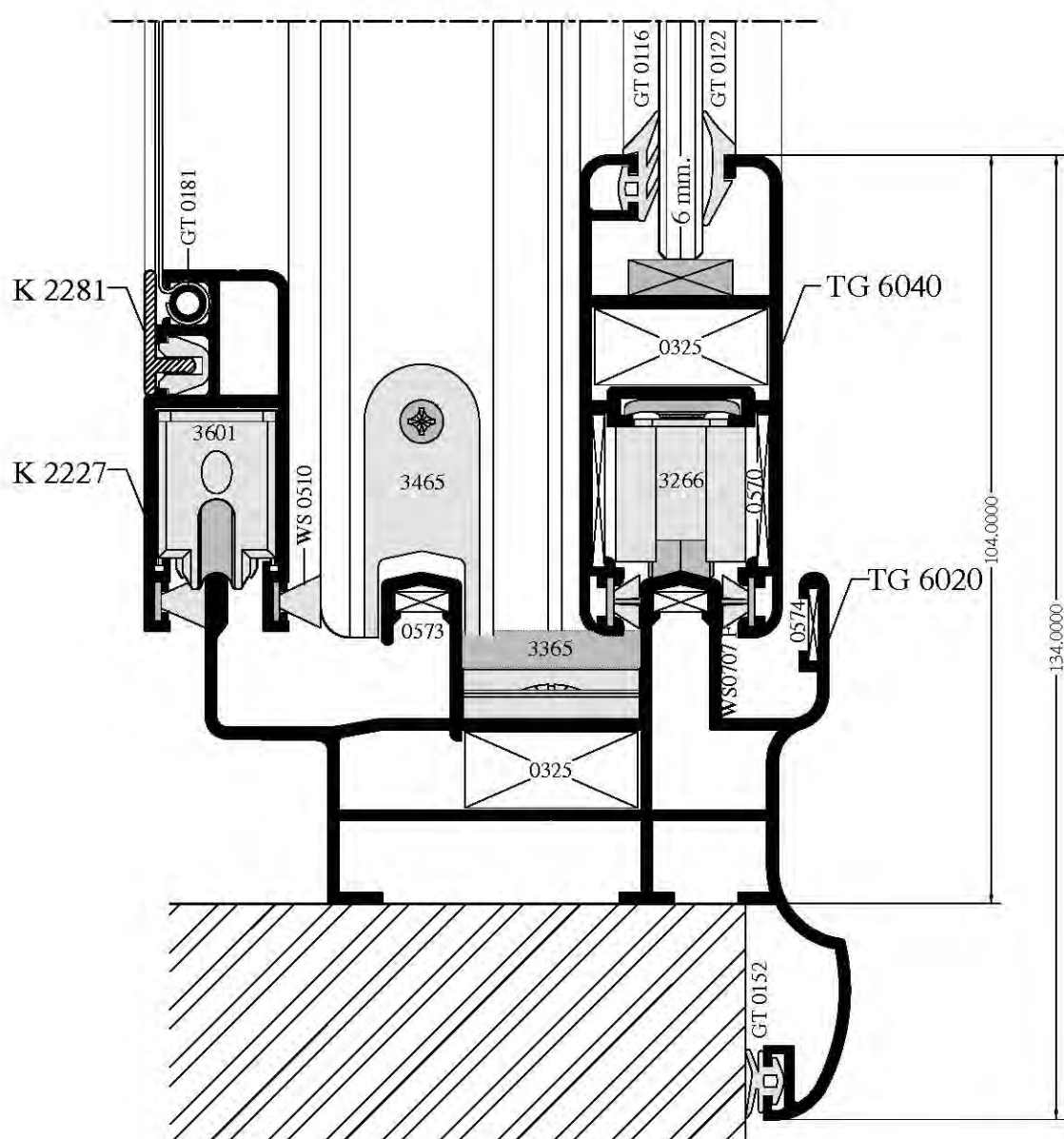
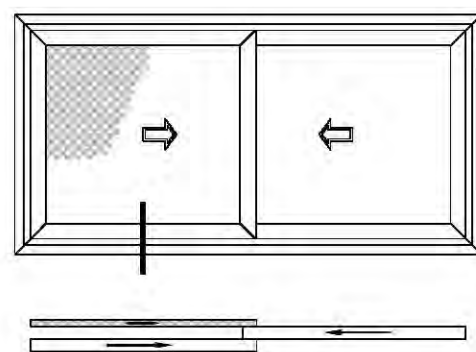


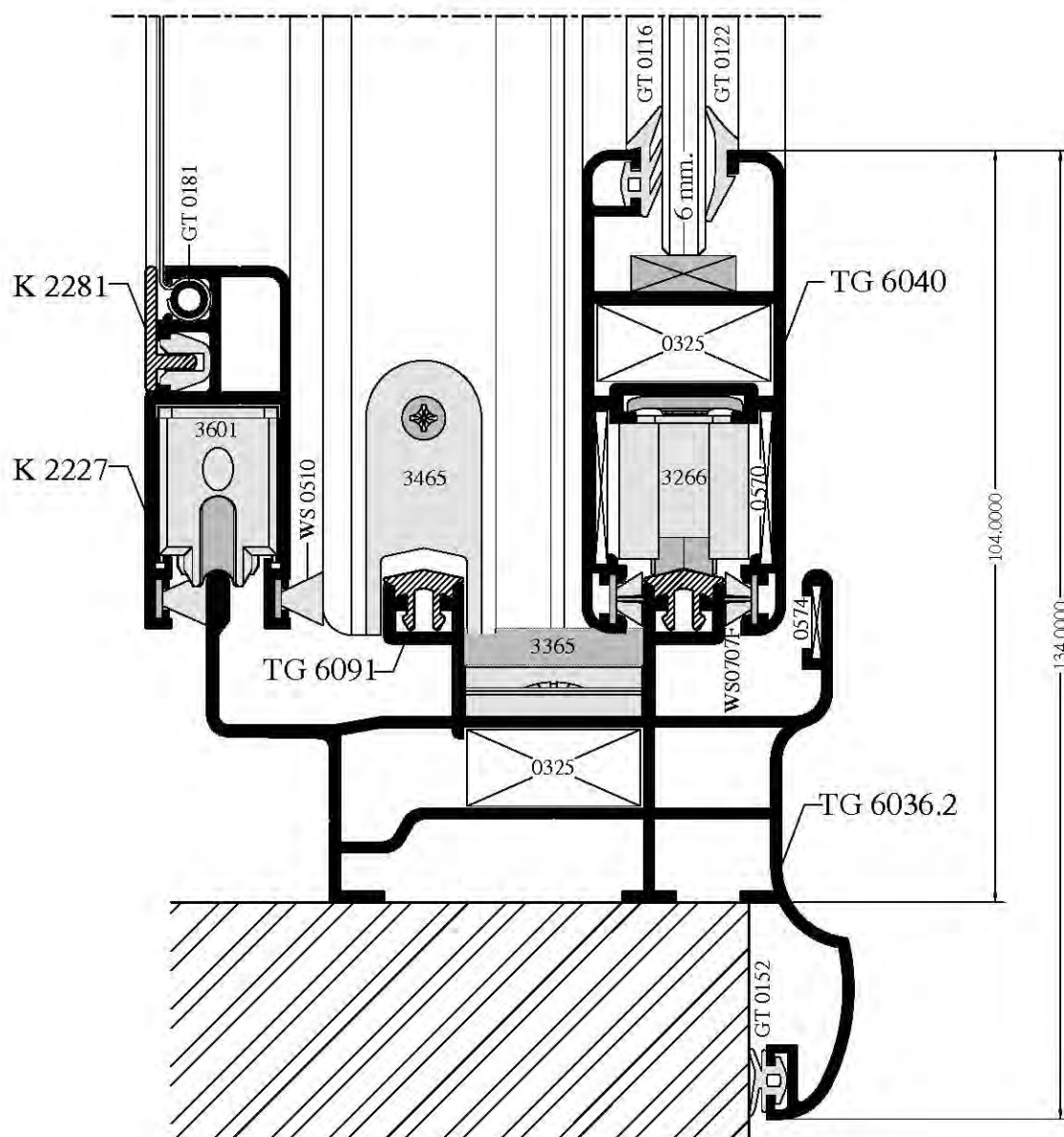
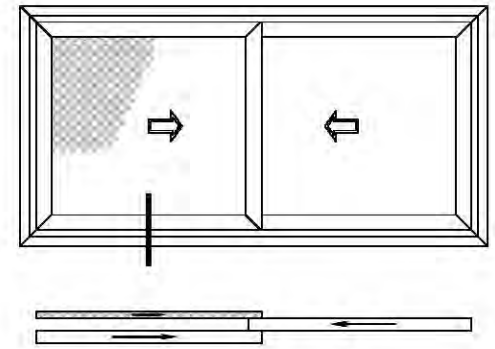


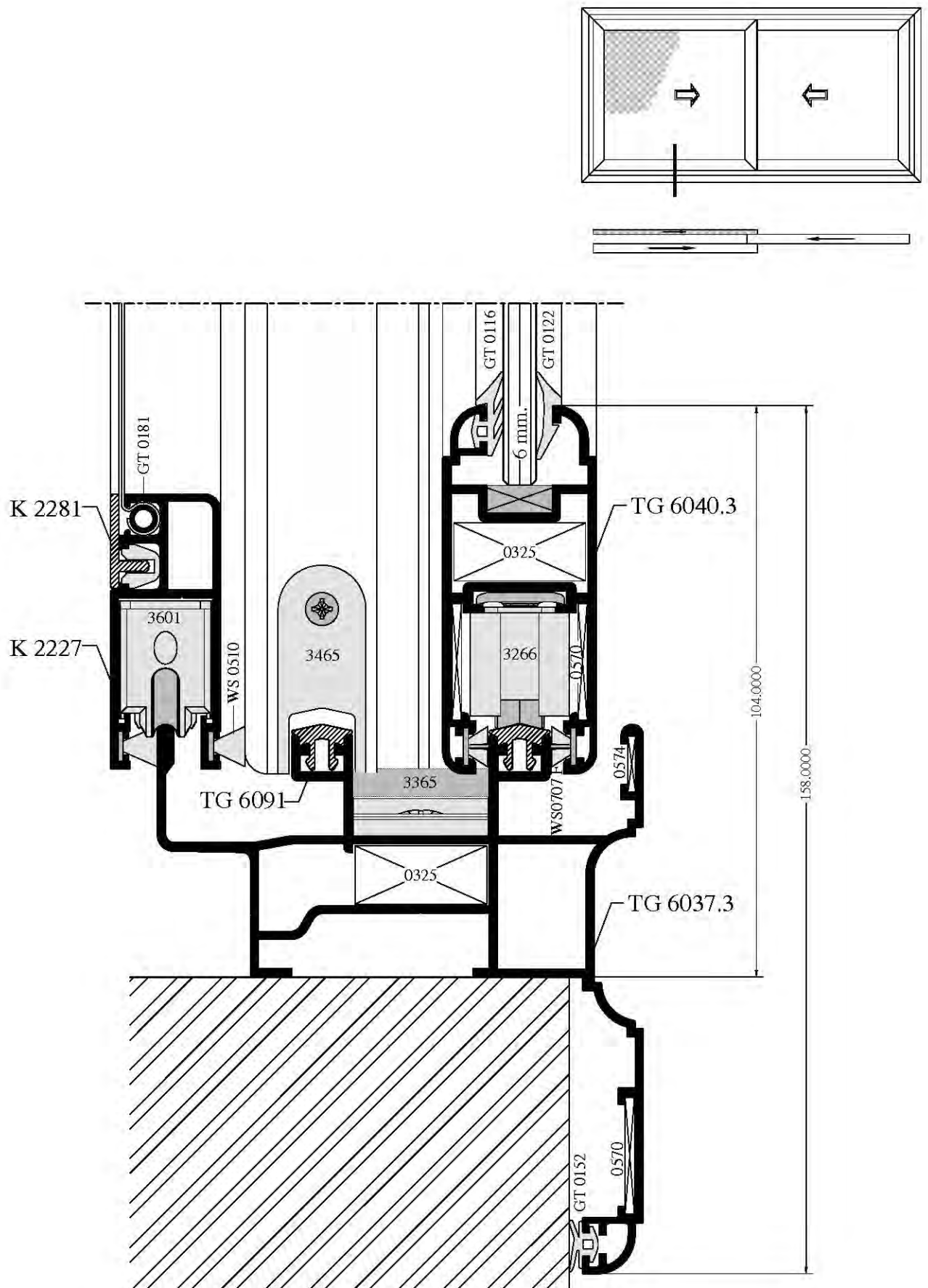


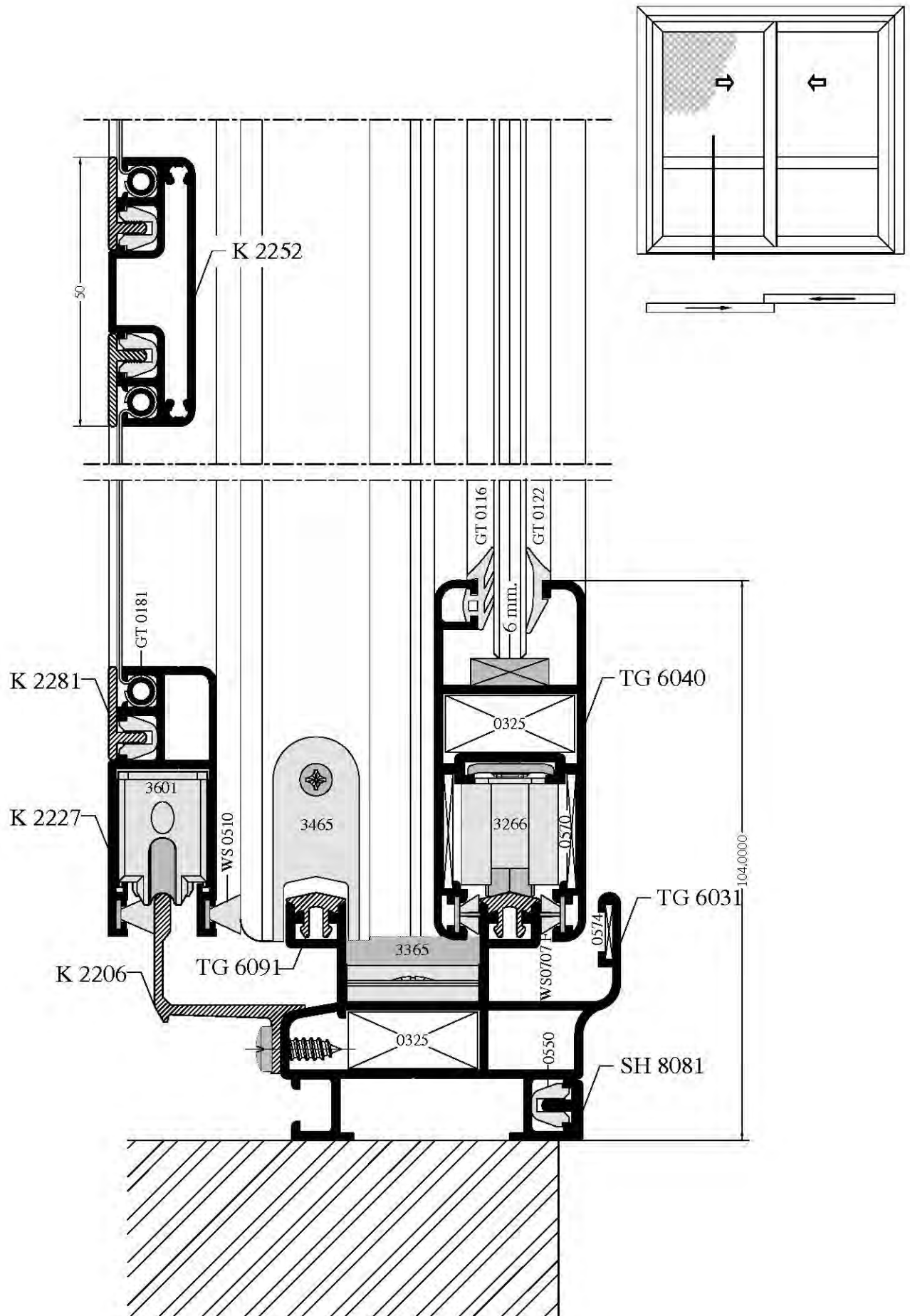


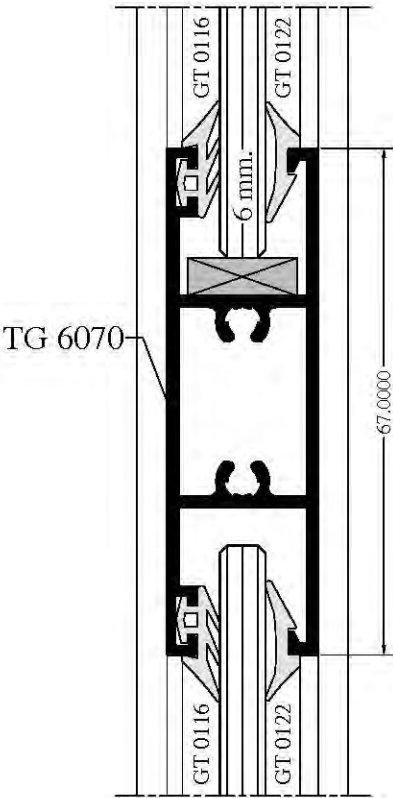
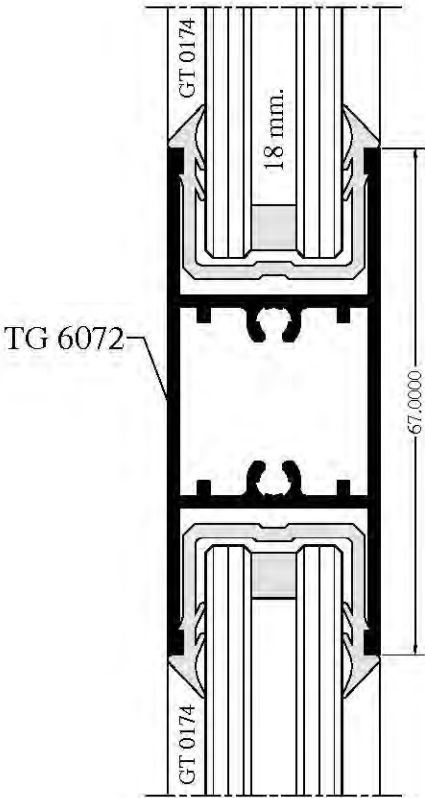
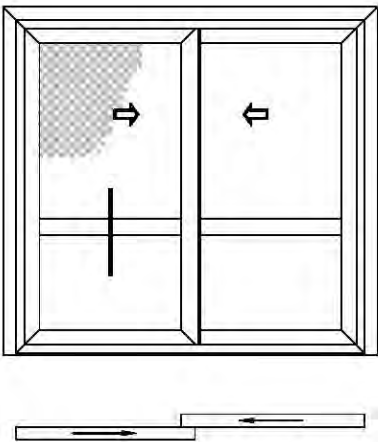


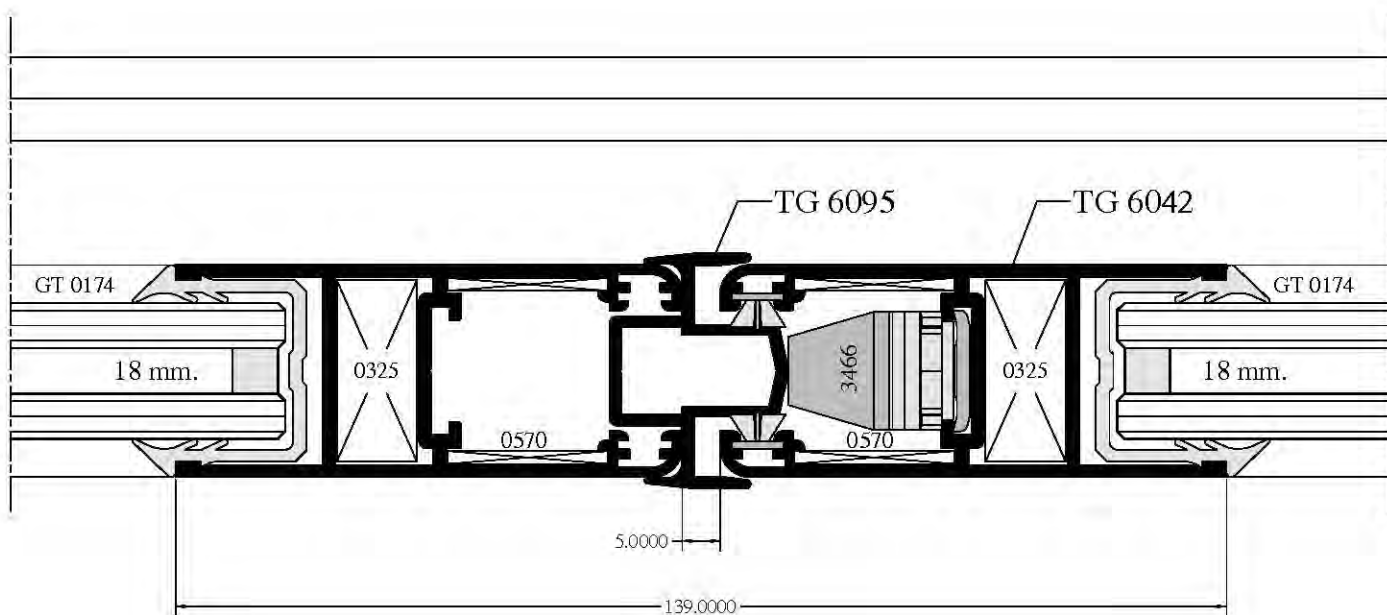
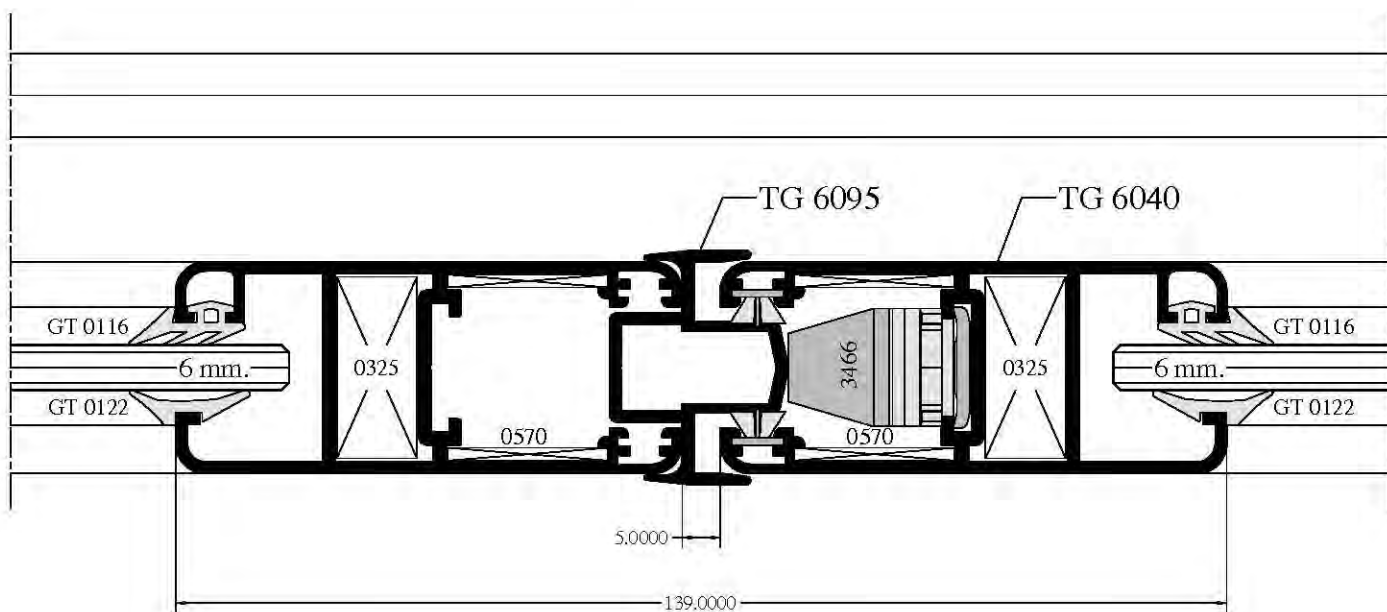
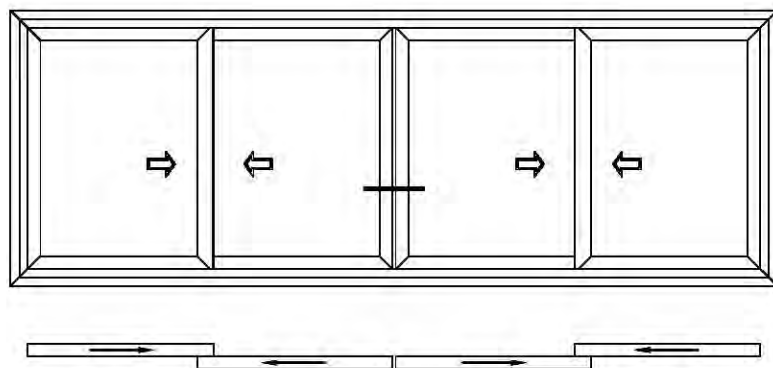


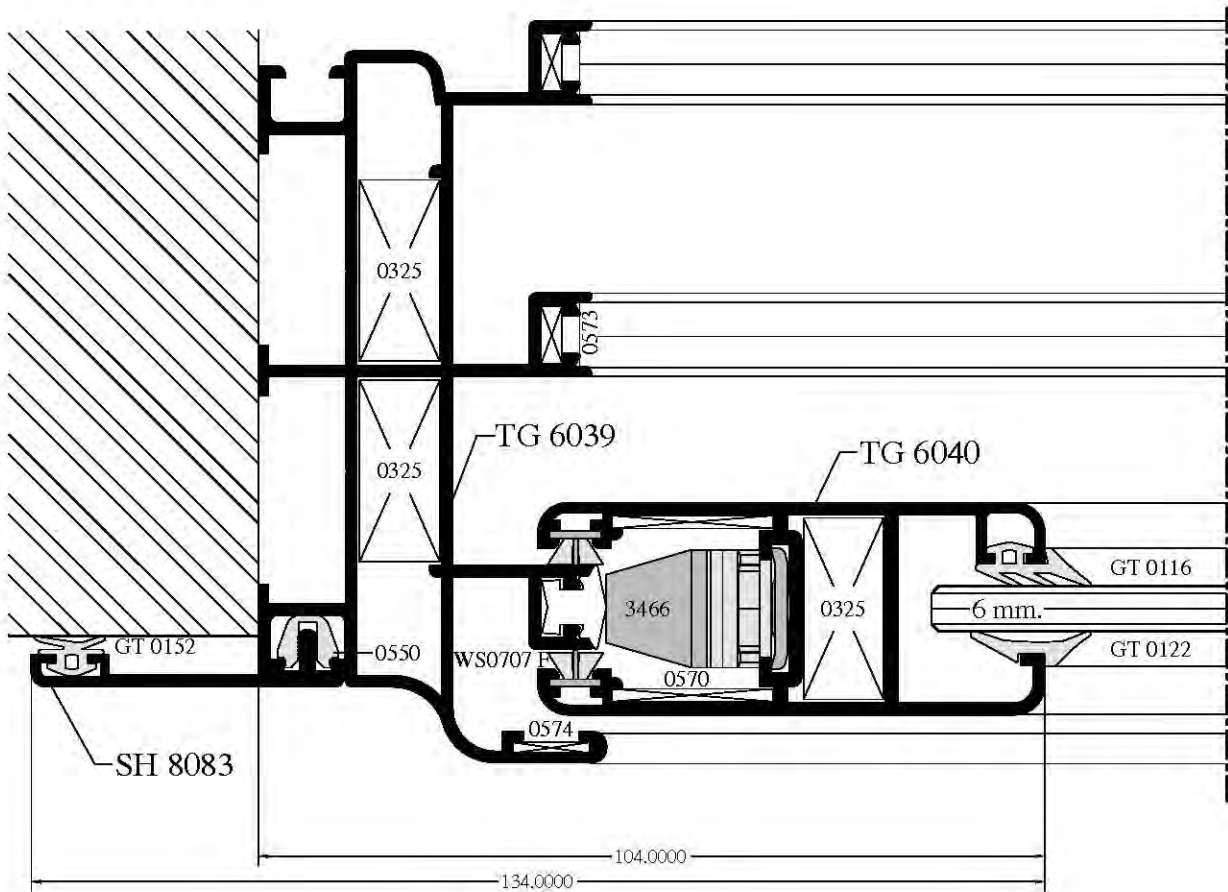
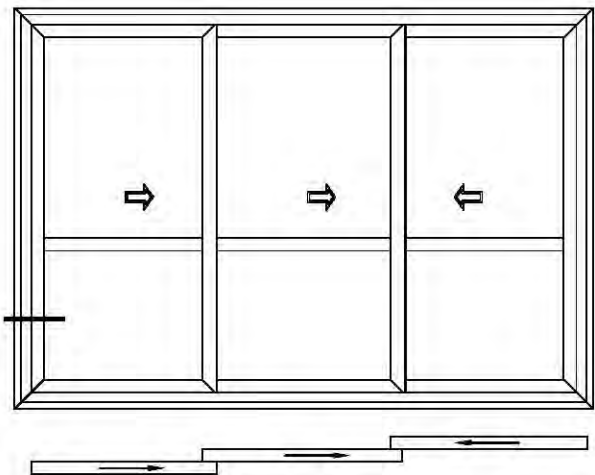


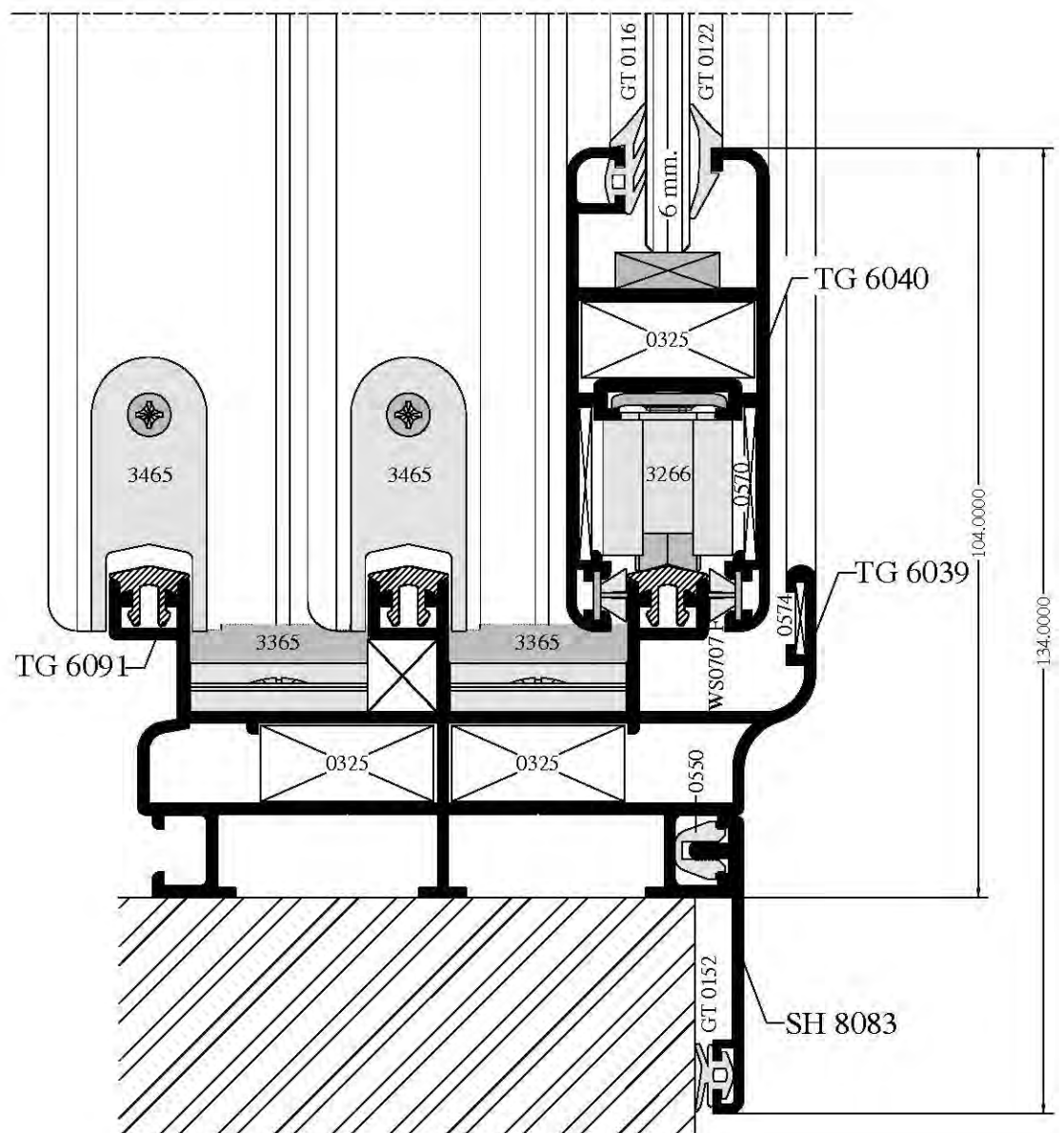
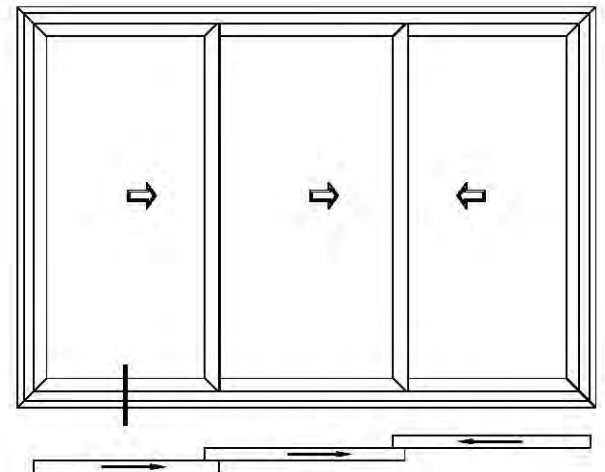


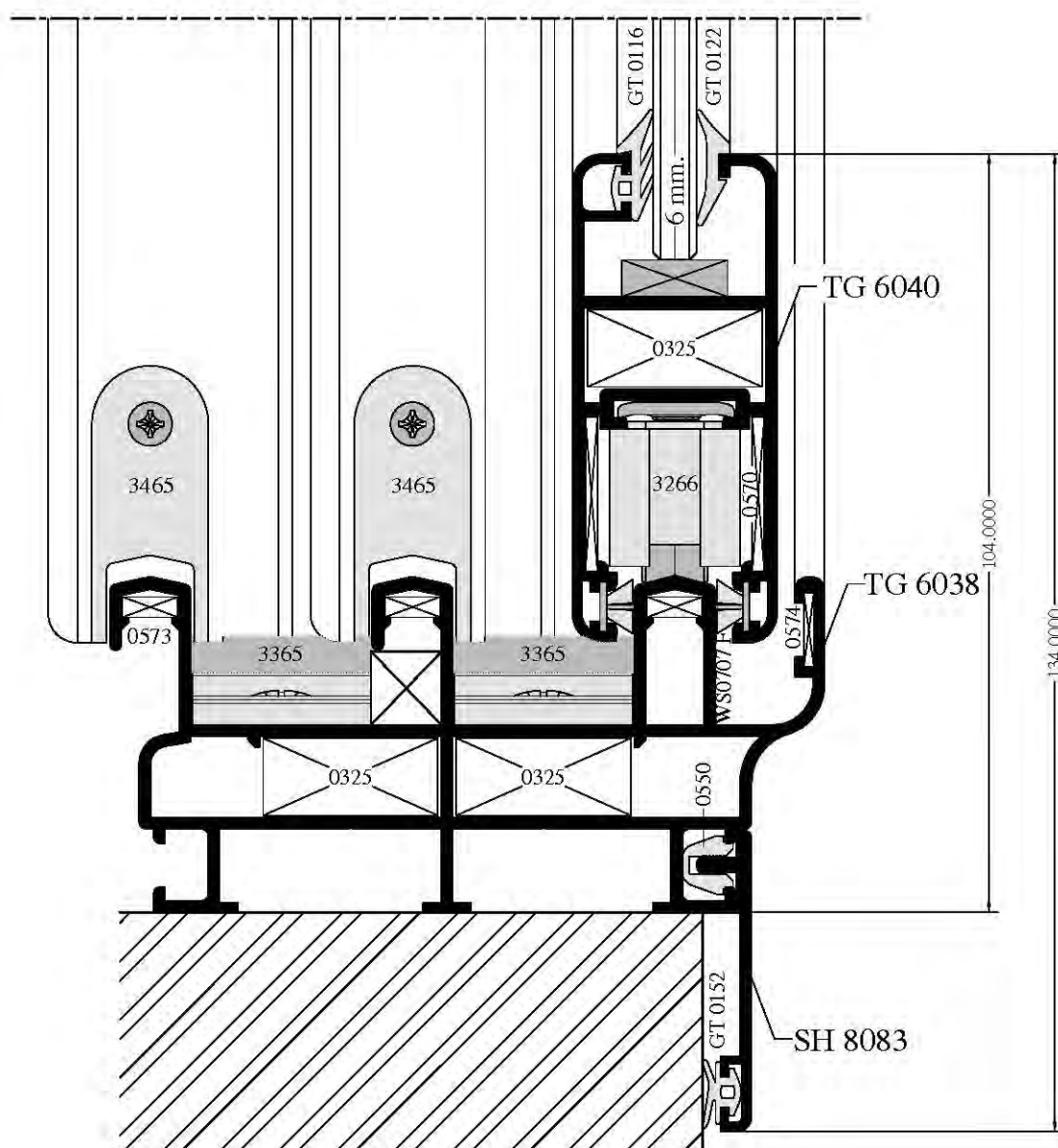
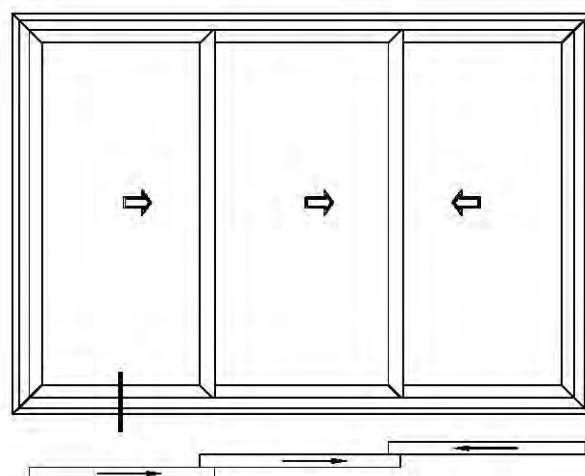


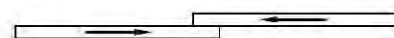
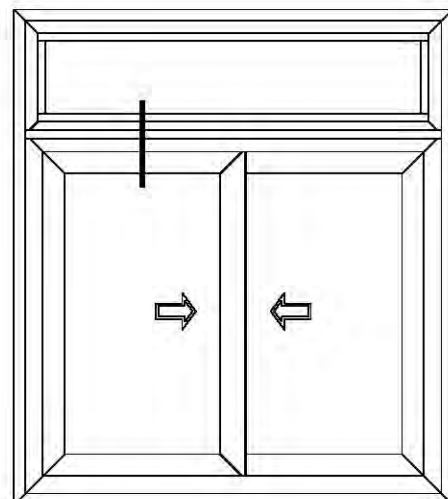
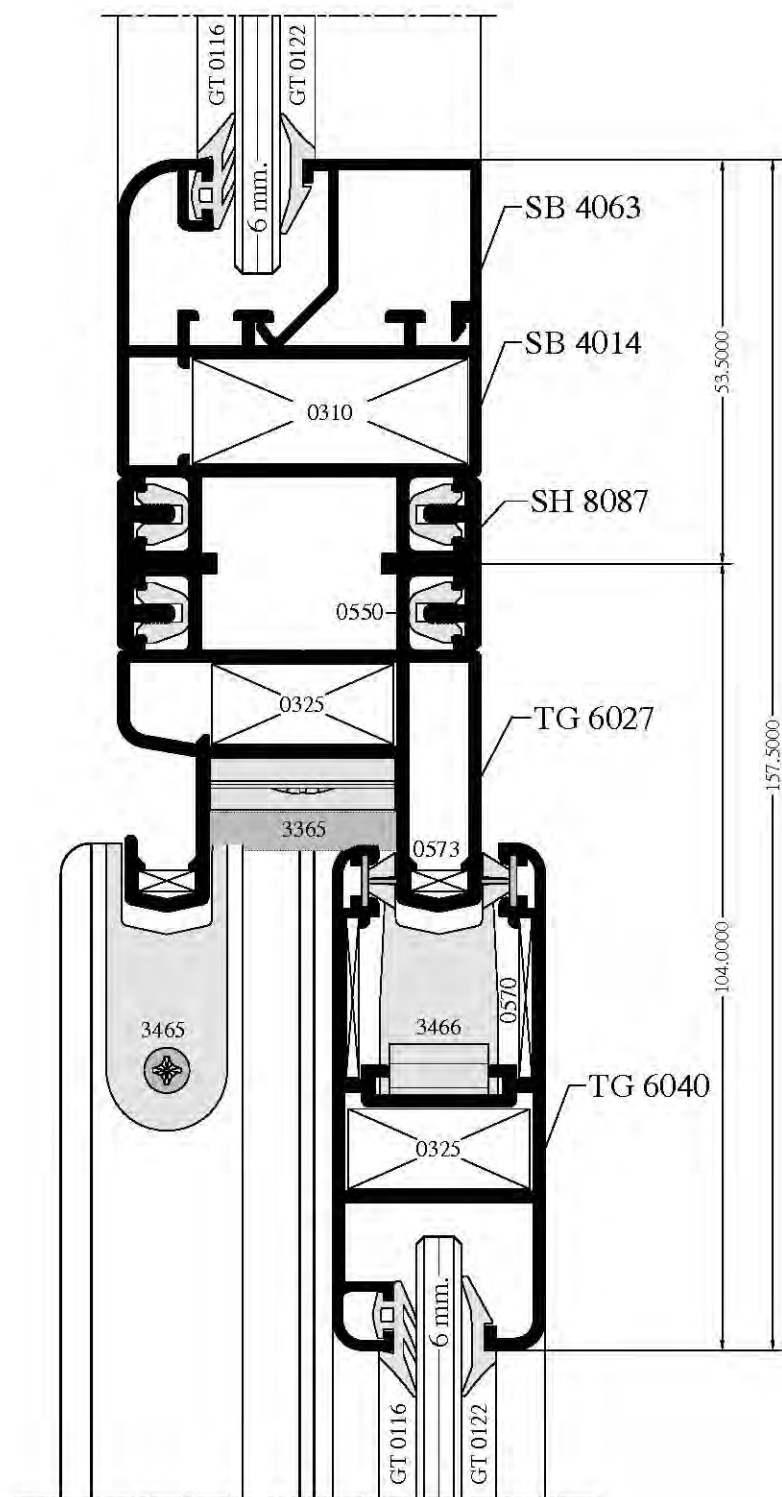


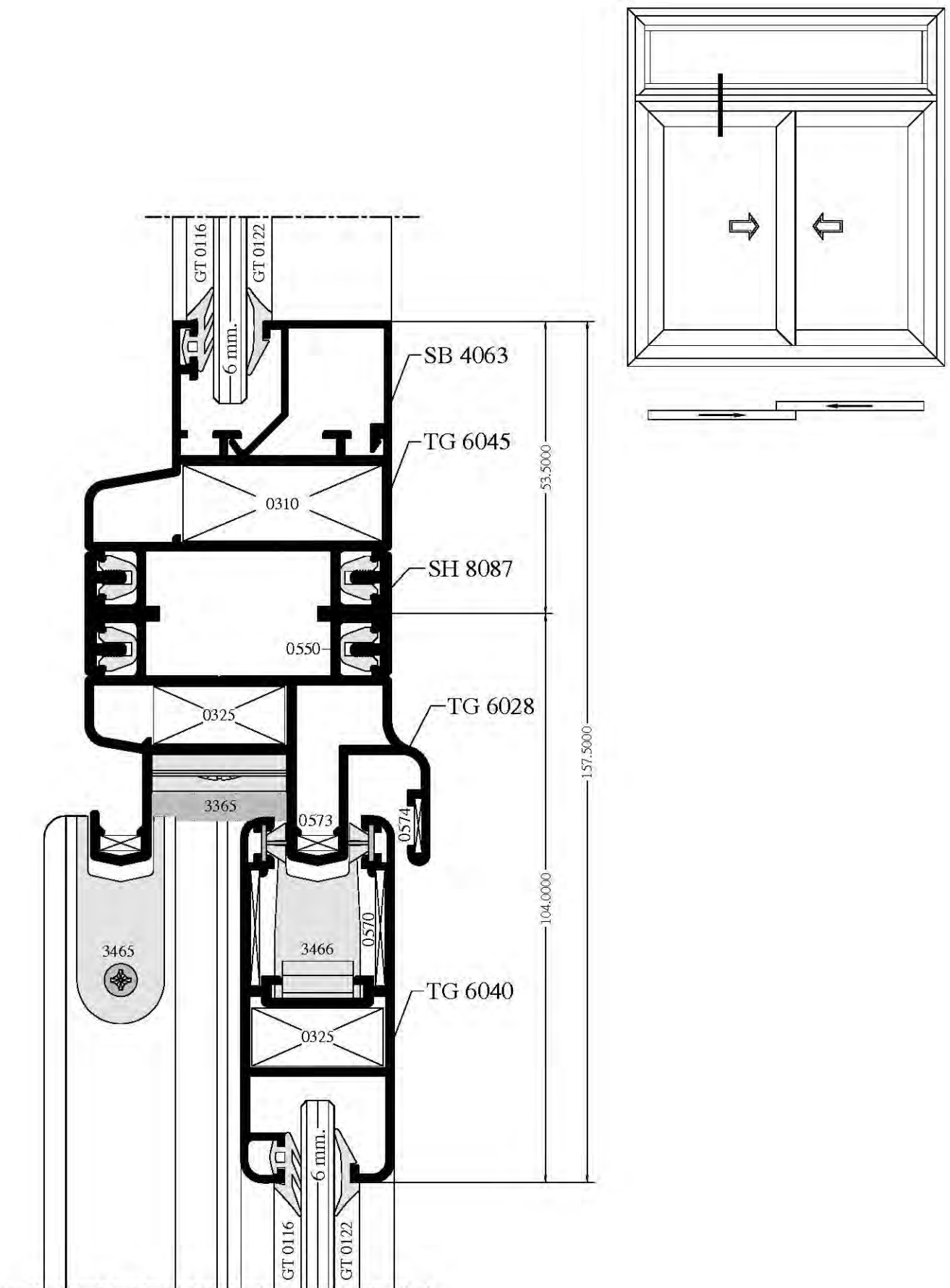


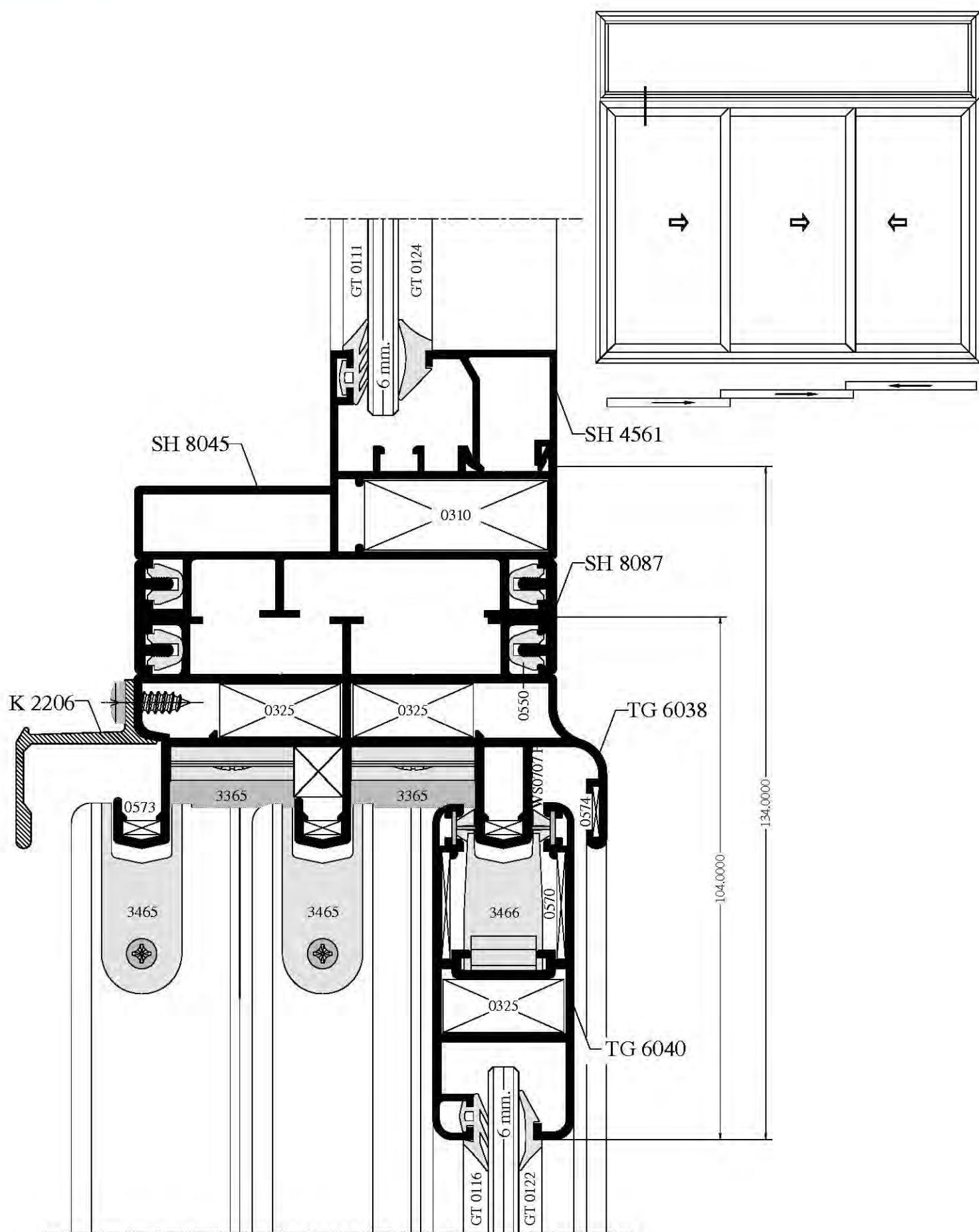








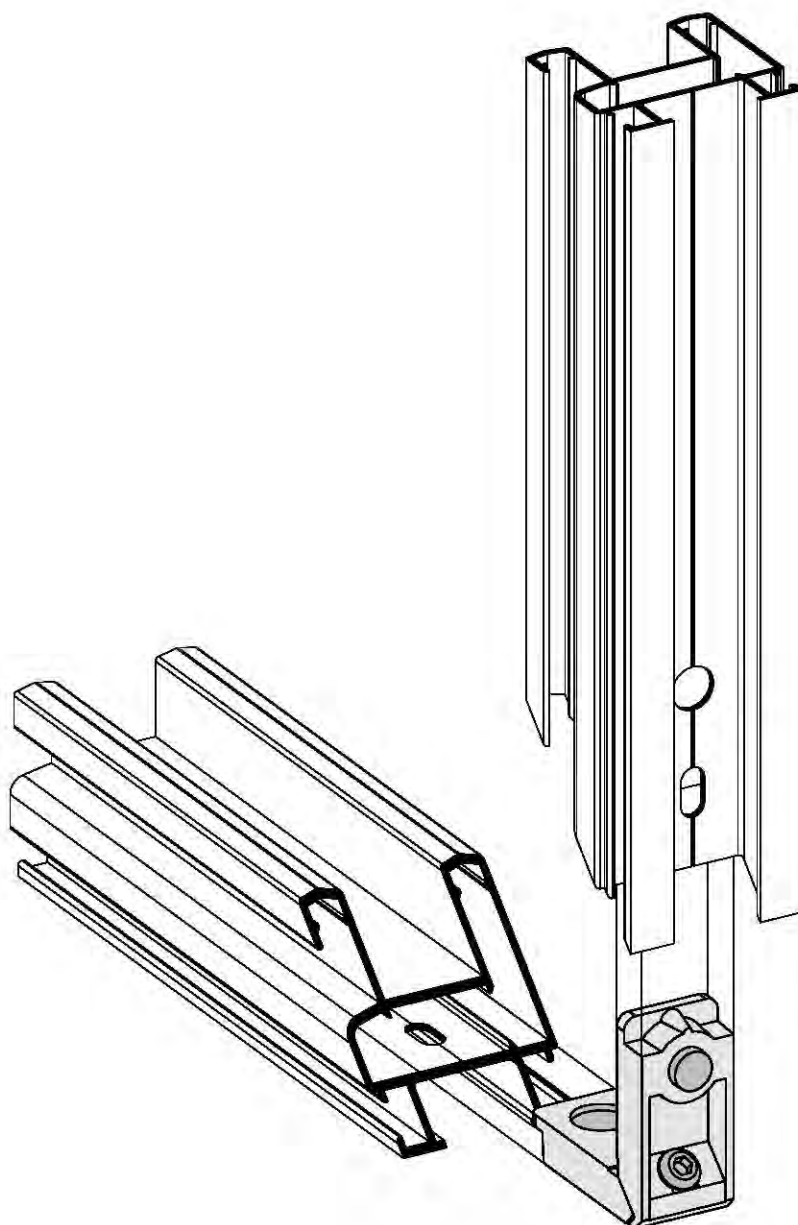
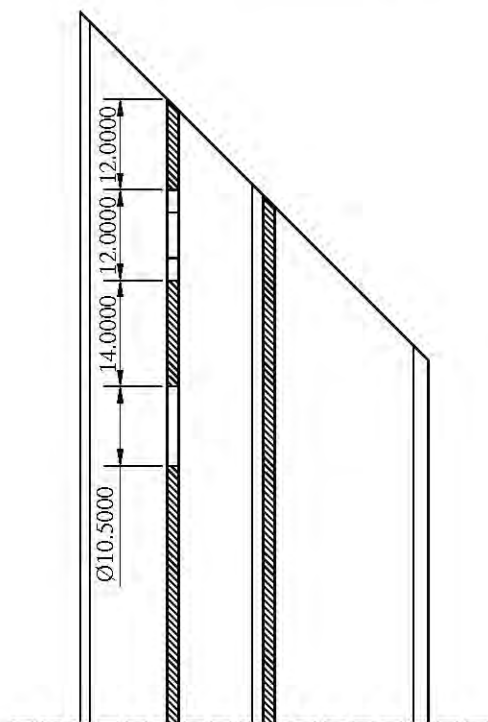
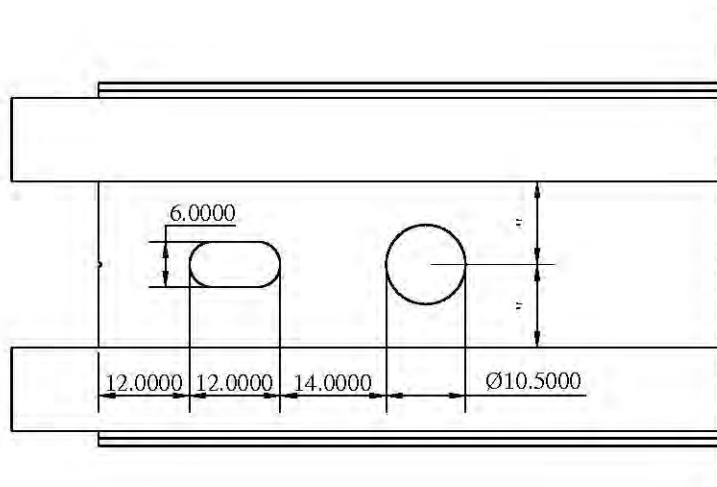
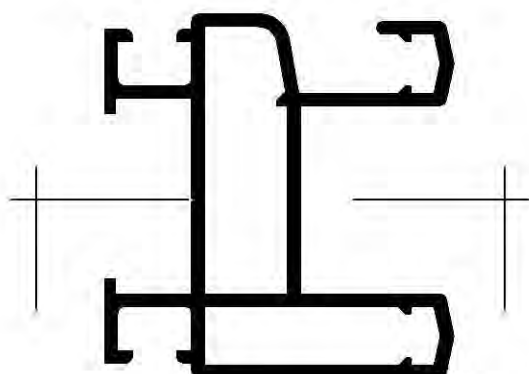






CORNER JOINT

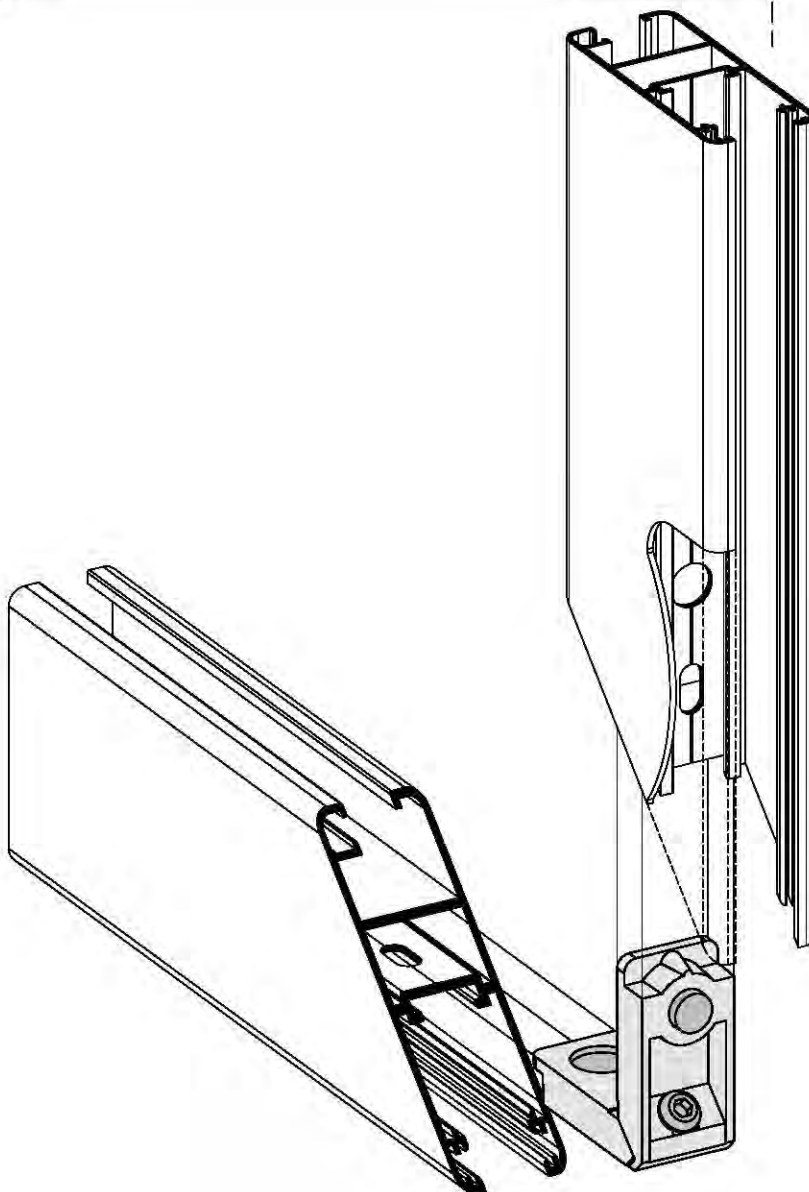
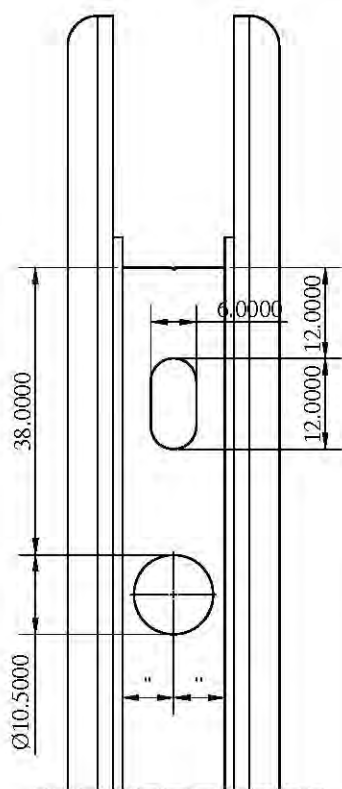
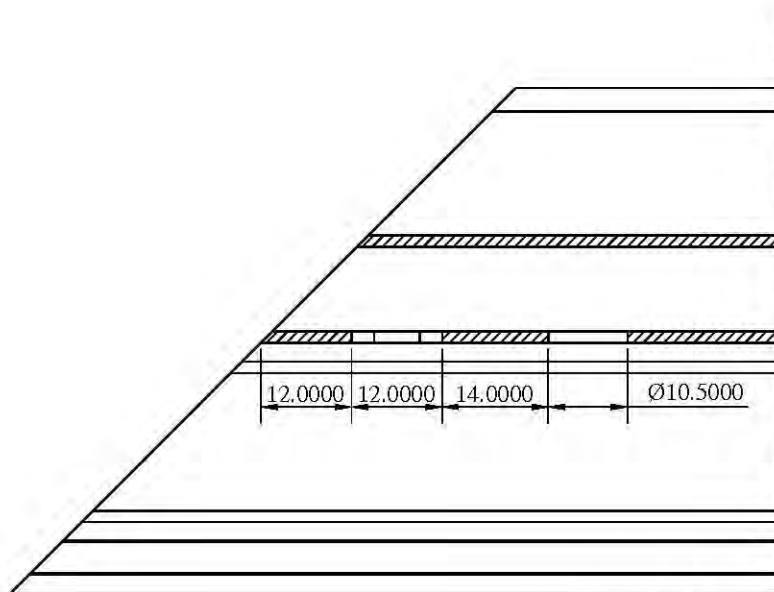
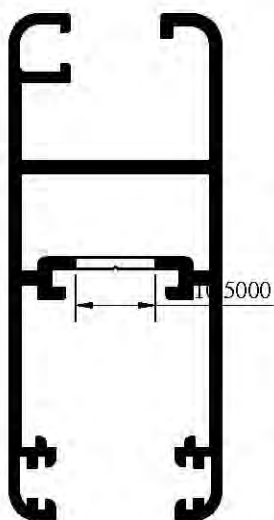
ART NO. 0325





CORNER JOINT

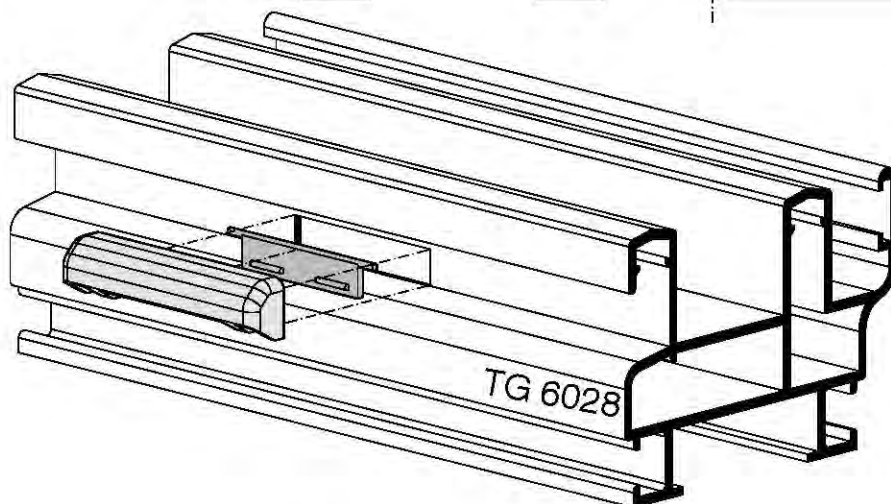
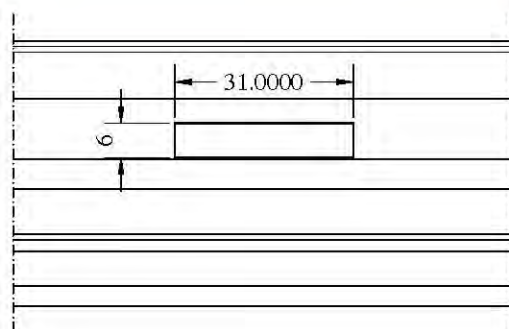
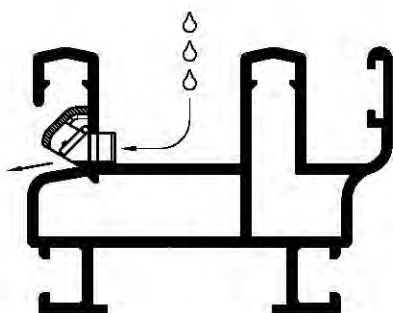
ART NO. 0325





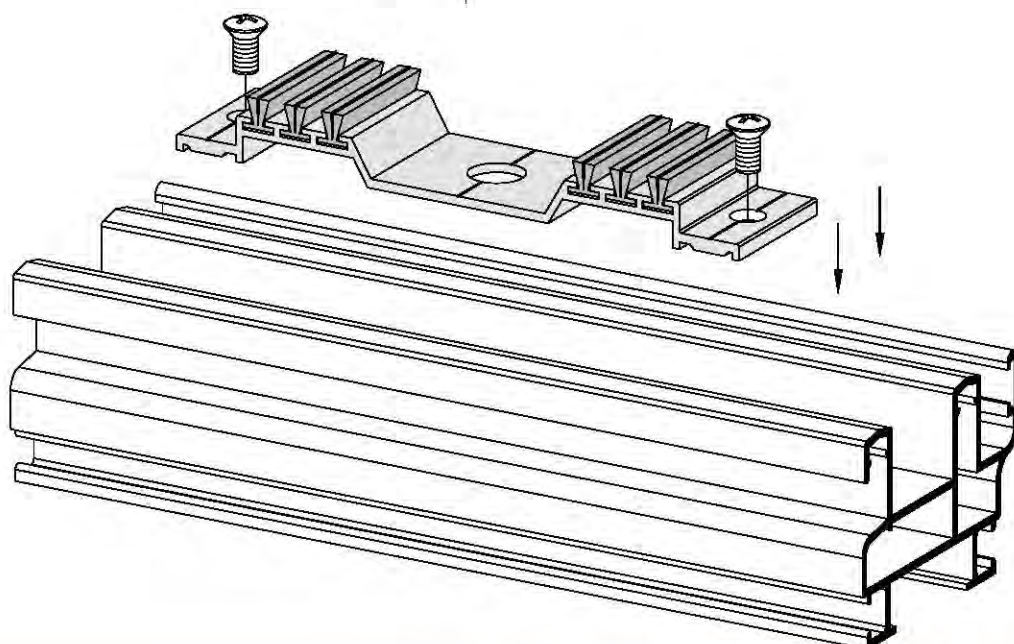
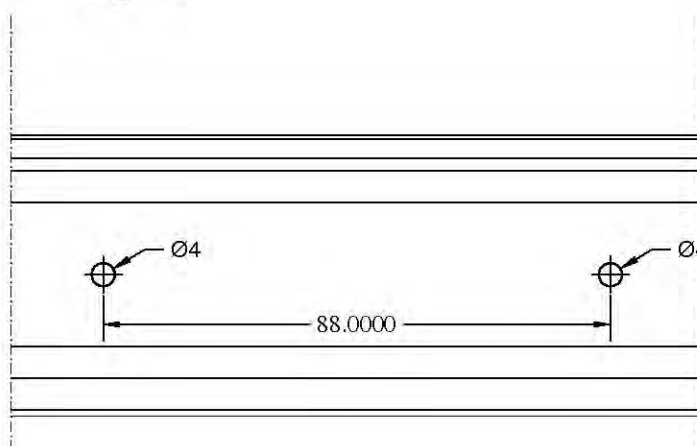
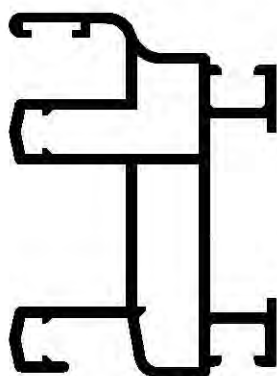
DRAINAGE COVER

ART NO. 3510



ANTI-DUST CAP

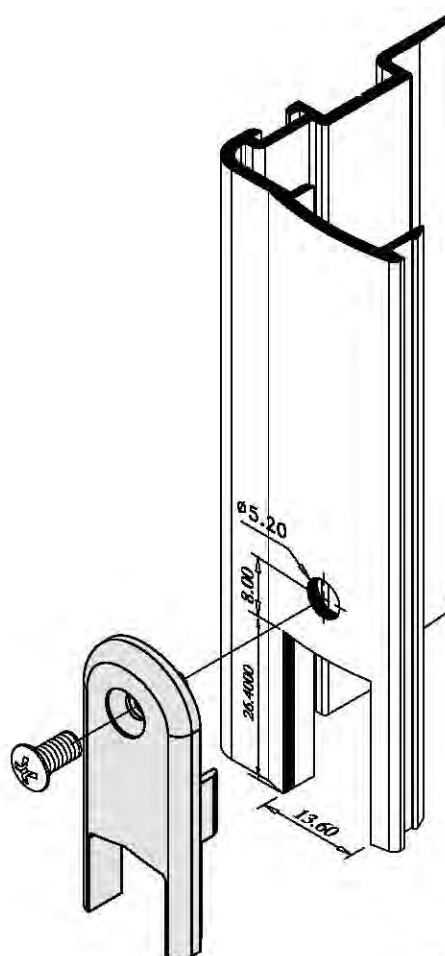
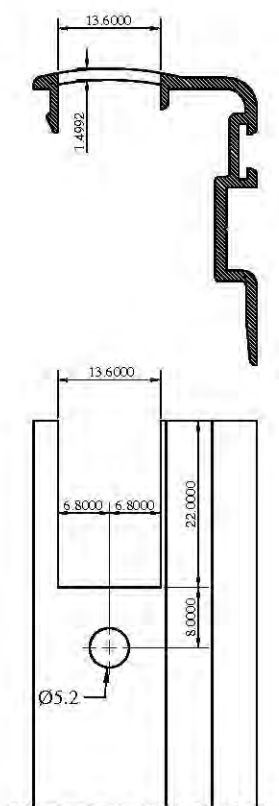
ART NO. 3365





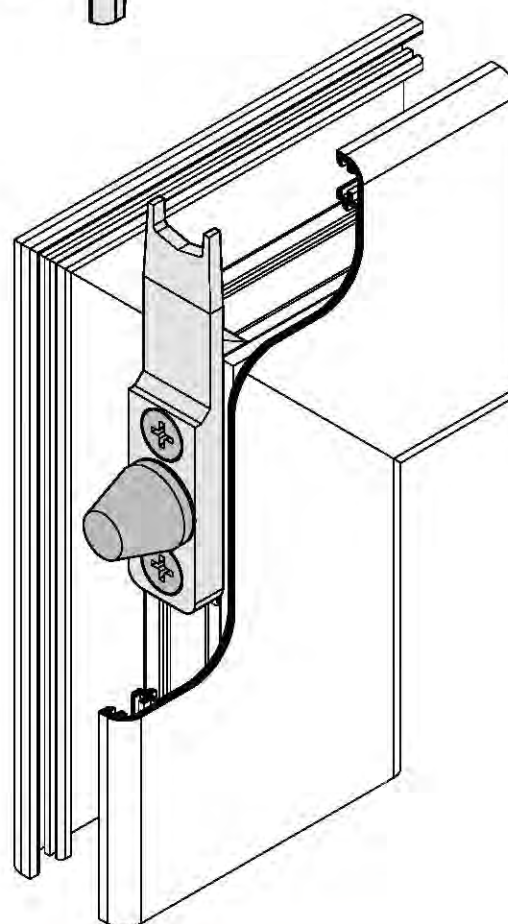
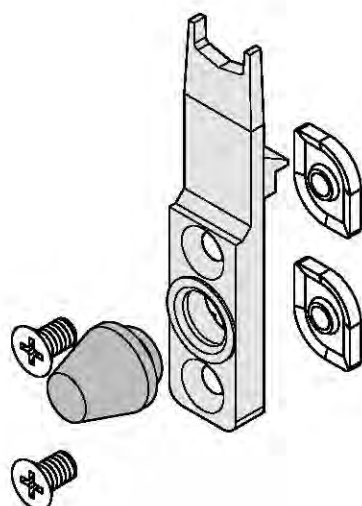
COVER CAPS

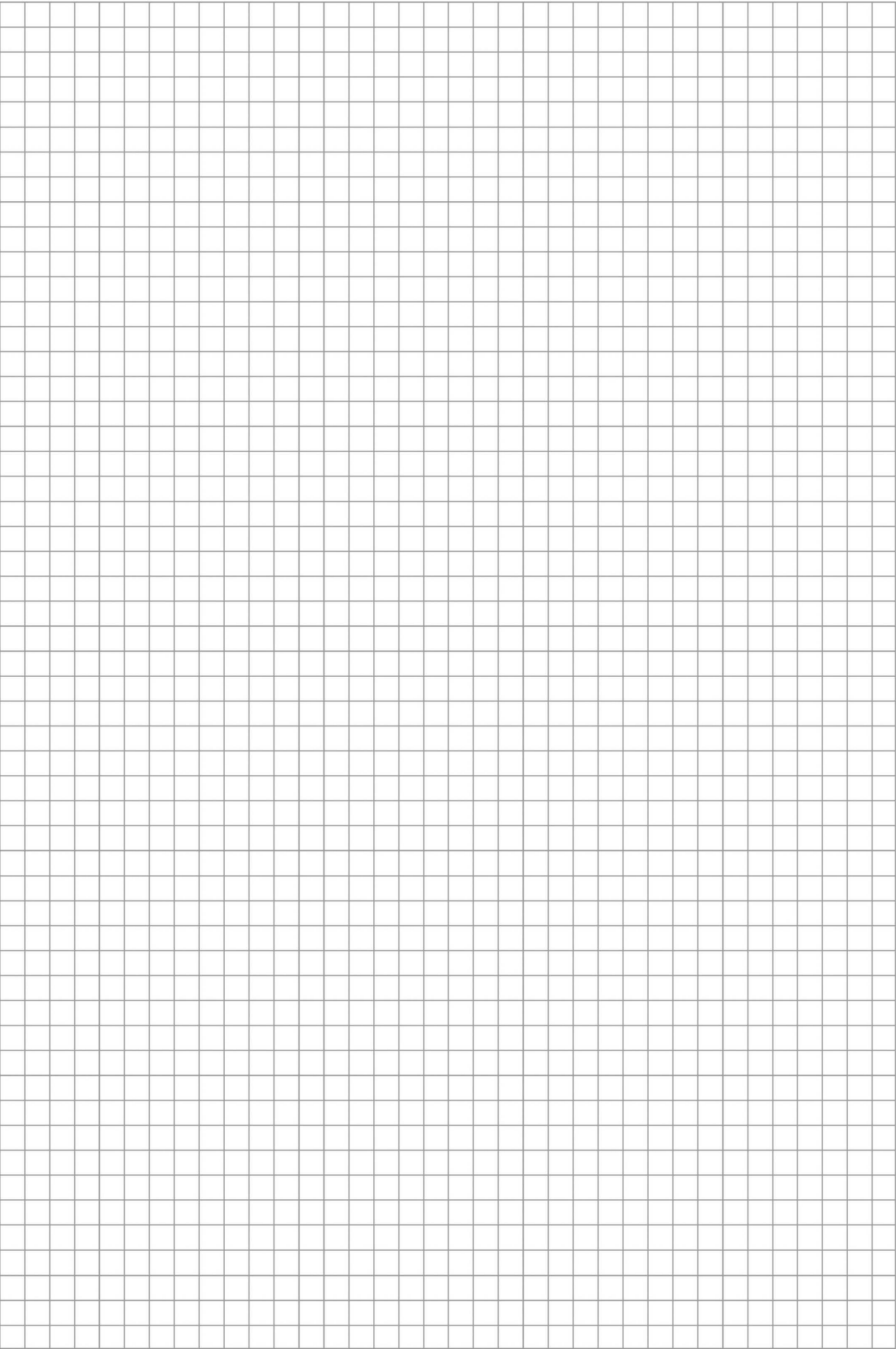
ART NO. 3465

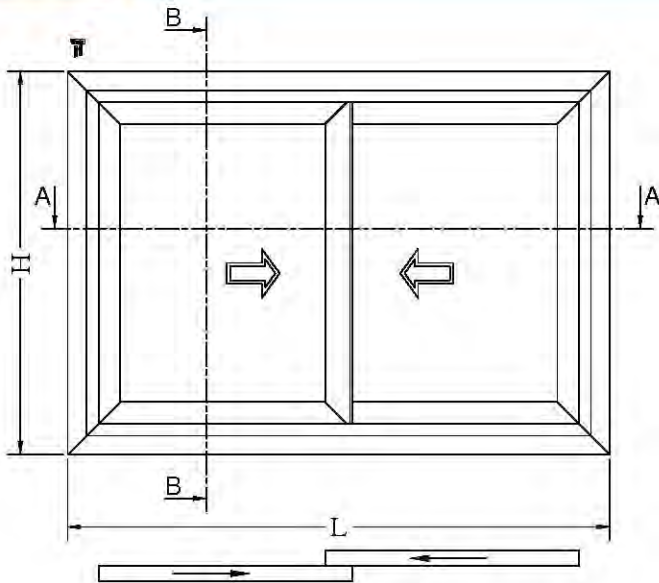


SHOCK ABSORBER & GUIDE

ART NO. 3466





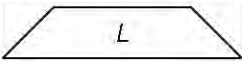
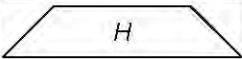
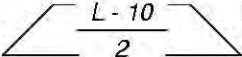
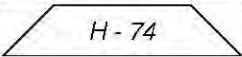
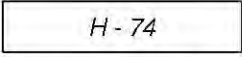
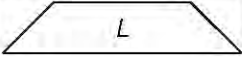
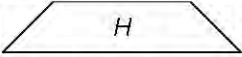


TOTAL WEIGHT

L (m.) X 4.63 Kg.
H (m.) X 6.88 Kg. +

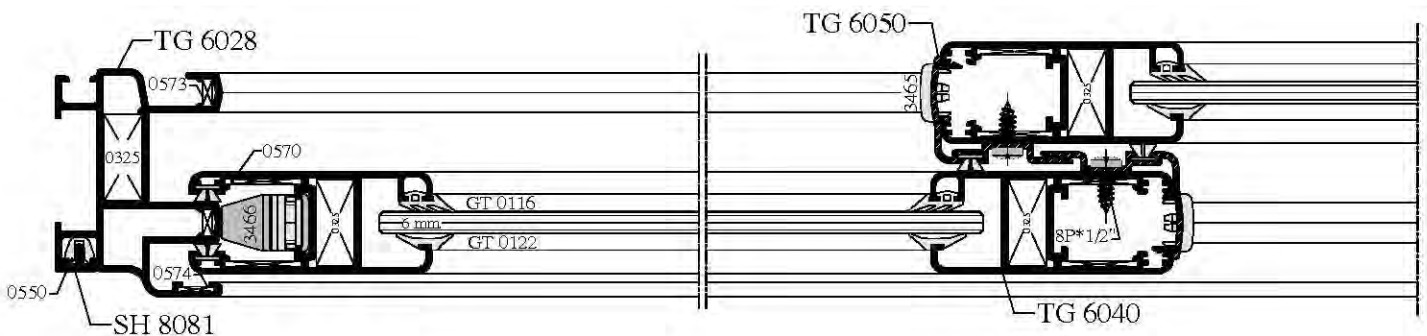
TOTAL = Kg.

PROFILES CUTTING LIST

FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6028	2	
		2	
	TG 6040	4	
		4	
	TG 6050	2	
	SH 8081	2	
		2	
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			

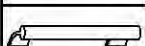
OPTIONAL CUTTING LIST

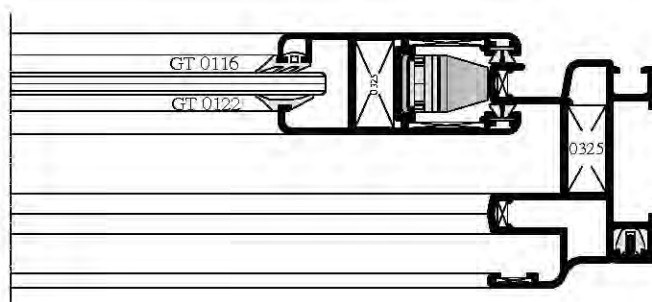
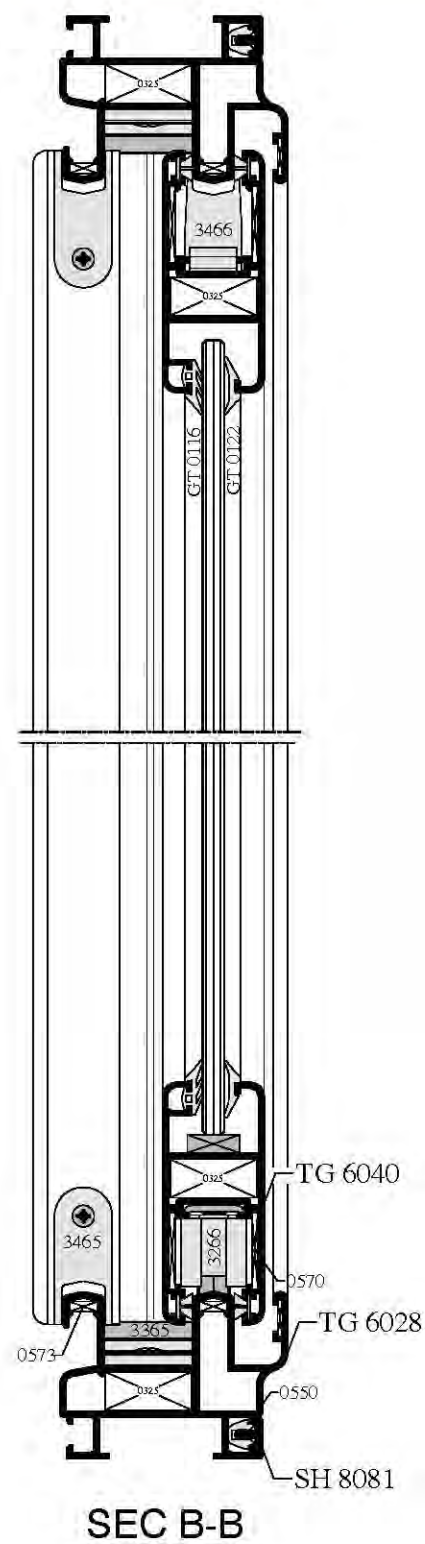
	SH 8083 SH 8083.2	2	L + 60
		2	H + 60
	SH 8085 SH 8085.2 SH 8085.3	2	L + 108
		2	H + 108
	SH 8086.2	2	L + 140
		2	H + 140



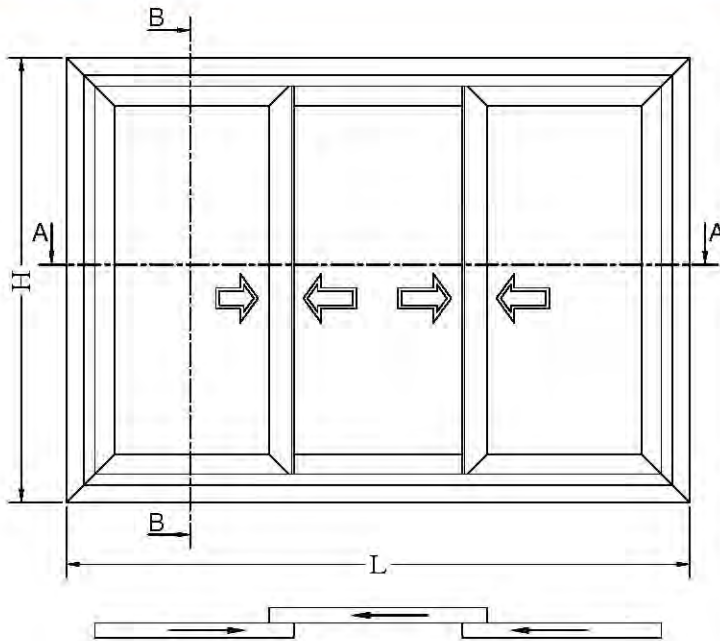
SEC A-A



ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	0325	12	Corner Joint
	0550	$\frac{2L+2H}{0.30}$	Clip
	0570	16	Alignment Angle
	0573	8	Alignment Angle
	0574	4	Alignment Angle
	3004	2	Striker
	3040	2	Siwa Lateral Handle
	3050	1	Siwa Handle
	3266	1	Single Roller Set-4Pcs
	3365	2	Anti-Dust Caps
	3465	4	Cover Caps
	3466	4	Shock Absorber&Guide
	3510	2	Drange Cover
	GT 0116	2L+4H	Glass Gasket
	GT 0122	2L+4H	Glass Gasket
	WS 7*7 R	4L+6H	Weather Strip

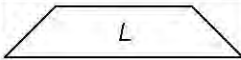
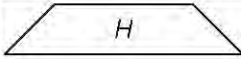
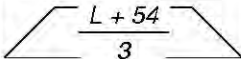
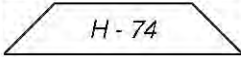
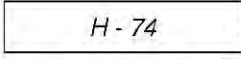
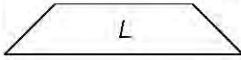
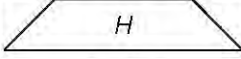
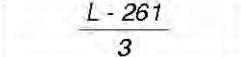
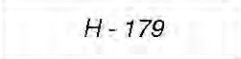


Scale 1:2

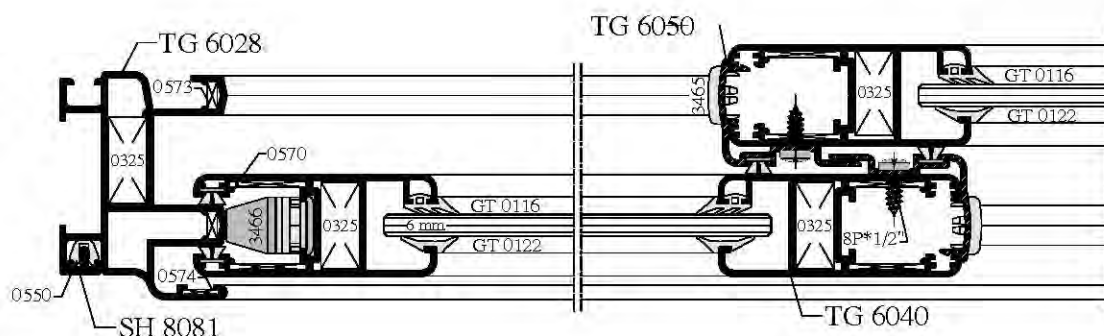


TOTAL WEIGHT	
L (m.) X 4.63 Kg.	+
H (m.) X 9.27 Kg.	

TOTAL=	Kg.

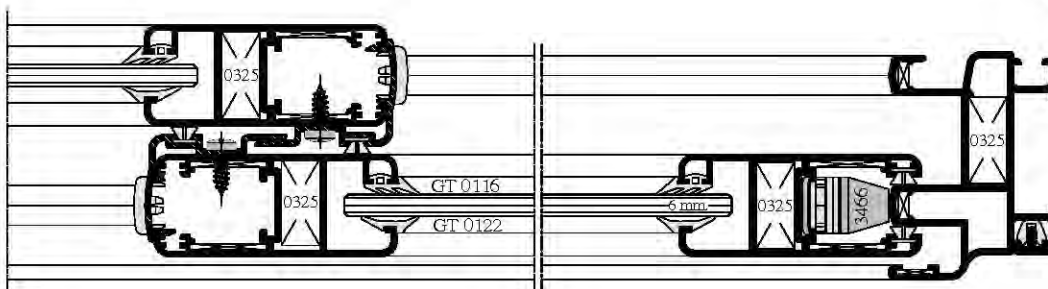
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6028	2	
		2	
	TG 6040	6	
		6	
	TG 6050	6	
	SH 8081	2	
		2	
SINGLE GLASS"4-6mm"		3	
			
ALL DIMENSIONS IN mm.			

OPTIONAL CUTTING LIST			
	SH 8083 SH 8083.2	2	L + 60
		2	H + 60
	SH 8085 SH 8085.2 SH 8085.3	2	L + 108
		2	H + 108
	SH 8086.2	2	L + 140
		2	H + 140

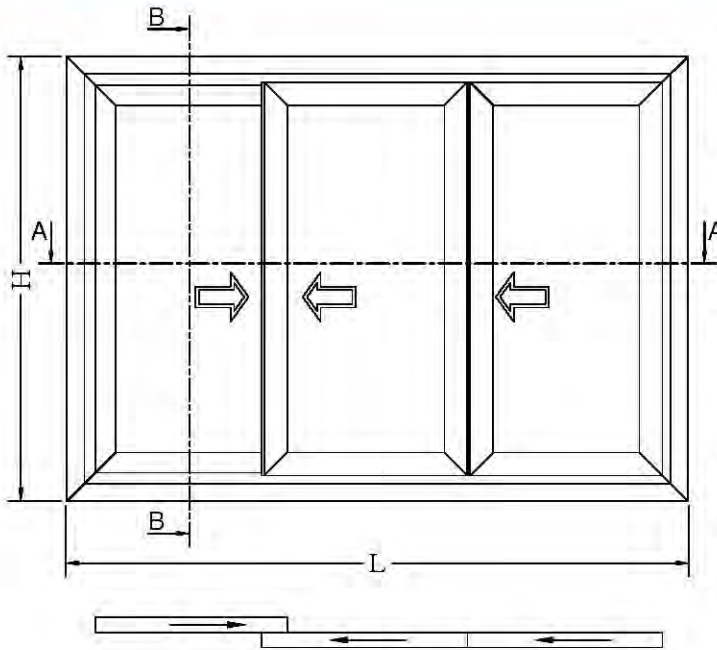


SEC A-A

Technical drawing of a vertical mechanical assembly, labeled SEC B-B. The drawing shows a cross-section of a vertical shaft with various components and dimensions. Key components include a top bracket (0323), a central shaft (GT 0116, GT 0122), a lower bracket (0323), a bottom bracket (0550), and a base (SH 8081). Dimensions are indicated by numbers: 0323, 0570, 0573, 3365, 3465, 3466, and 3266. The drawing is divided into two main sections by a horizontal line.

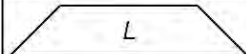
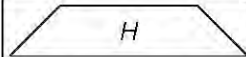
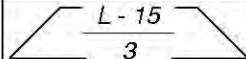
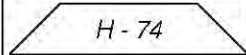
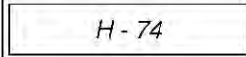
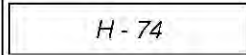
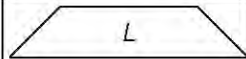
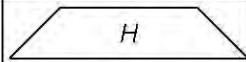


TANGO 60 71

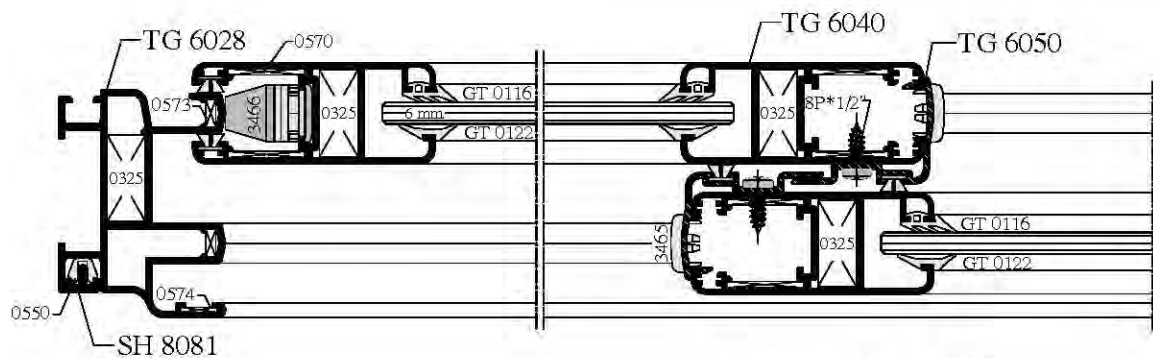


TOTAL WEIGHT	
L (m.) X 4.63 Kg.	+
H (m.) X 9.00 Kg.	

TOTAL =	Kg.

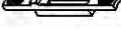
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6028	2	
		2	
	TG 6040	6	
		6	
	TG 6050	2	
	TG 6095	1	
	SH 8081	2	
		2	
SINGLE GLASS"4-6mm"		3	
			
ALL DIMENSIONS IN mm.			

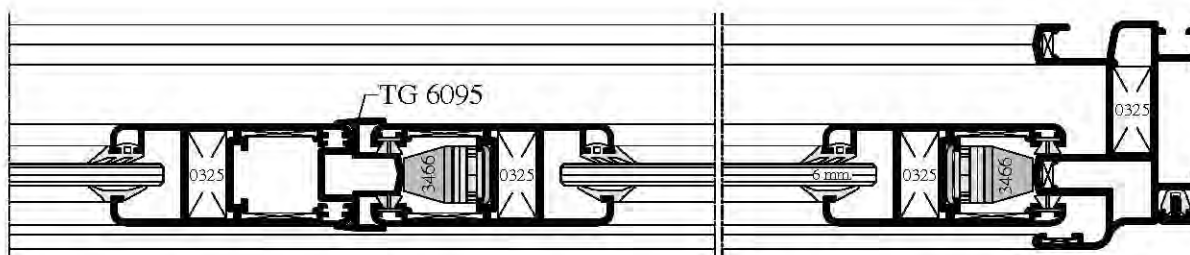
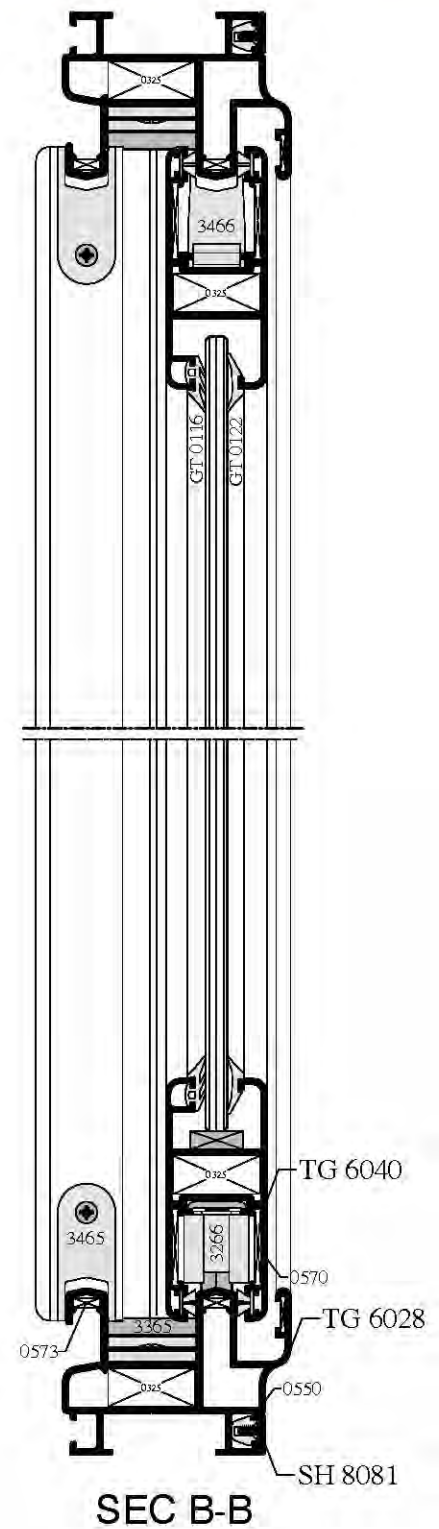
OPTIONAL CUTTING LIST			
	SH 8083 SH 8083.2	2	L + 60
		2	H + 60
	SH 8085 SH 8085.2 SH 8085.3	2	L + 108
		2	H + 108
	SH 8086.2	2	L + 140
		2	H + 140



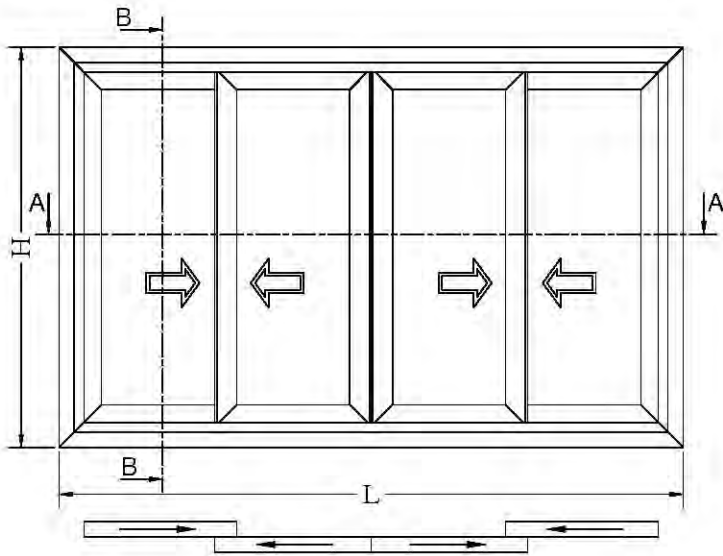
SEC A-A



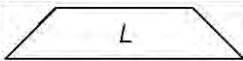
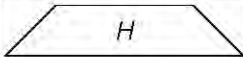
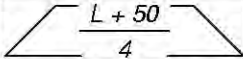
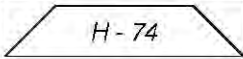
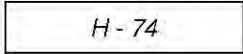
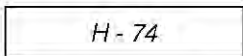
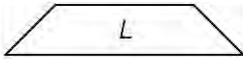
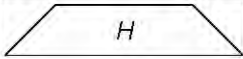
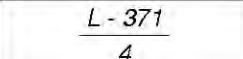
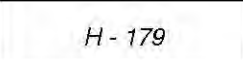
ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	0325	16	Corner Joint
	0550	$\frac{2L+2H}{0.30}$	Clip
	0570	24	Alignment Angle
	0573	8	Alignment Angle
	0574	4	Alignment Angle
	3004	2	Striker
	3040	2	Siwa Lateral Handle
	3150	1	Isis Handle
	3266	2	Single Roller Set-4Pcs
	3365	2	Anti-Dust Caps
	3465	4	Cover Caps
	3466	6	Shock Absorber&Guide
	3510	2	Drange Cover
	GT 0116	2L+6H	Glass Gasket
	GT 0122	2L+6H	Glass Gasket
	WS 7*7 R	4L+8H	Weather Strip



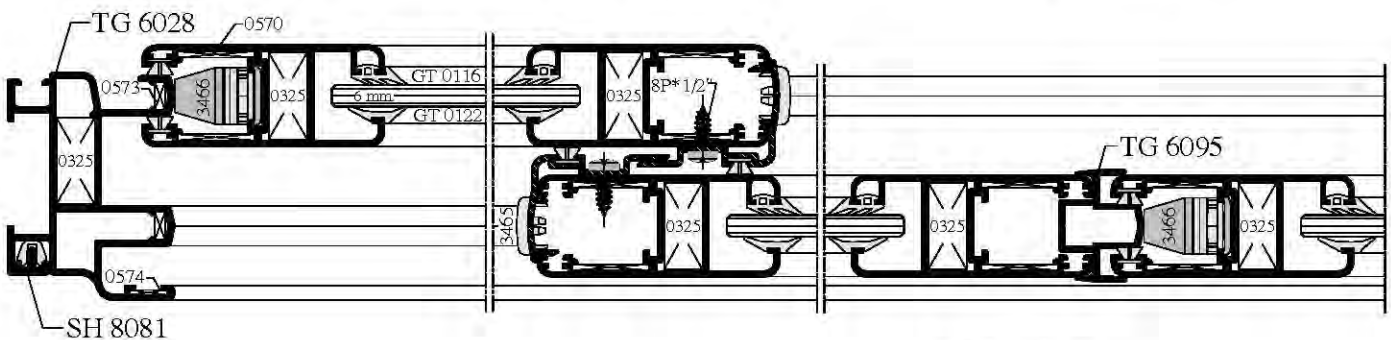
Scale 1:2



TOTAL WEIGHT	
L (m.) X 4.63 Kg.	+
H (m.) X 12.09 Kg.	
TOTAL =	Kg.

PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6028	2	
		2	
	TG 6040	8	
		8	
	TG 6050	4	
	TG 6095	1	
	SH 8081	2	
		2	
SINGLE GLASS"4-6mm"		4	
			
ALL DIMENSIONS IN mm.			

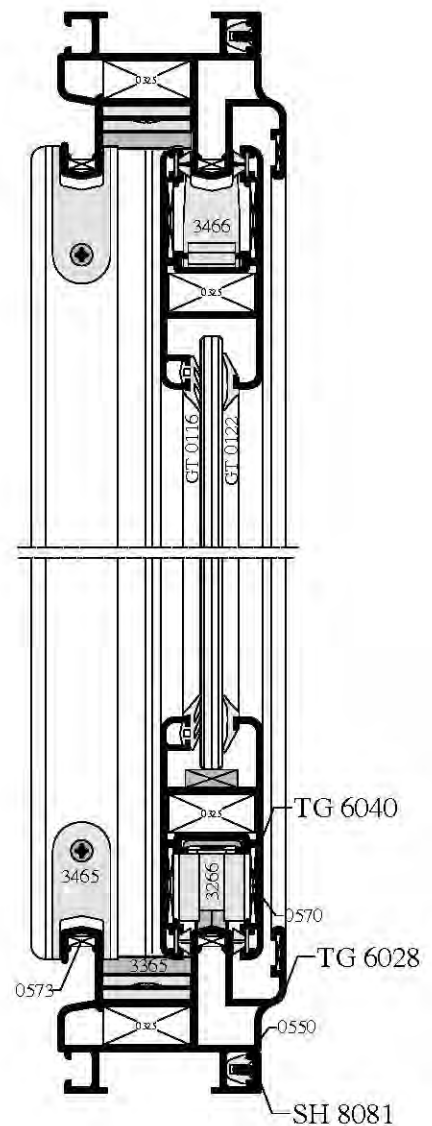
OPTIONAL CUTTING LIST			
	SH 8083 SH 8083.2	2	$L + 60$
		2	$H + 60$
	SH 8085 SH 8085.2 SH 8085.3	2	$L + 108$
		2	$H + 108$
	SH 8086.2	2	$L + 140$
		2	$H + 140$



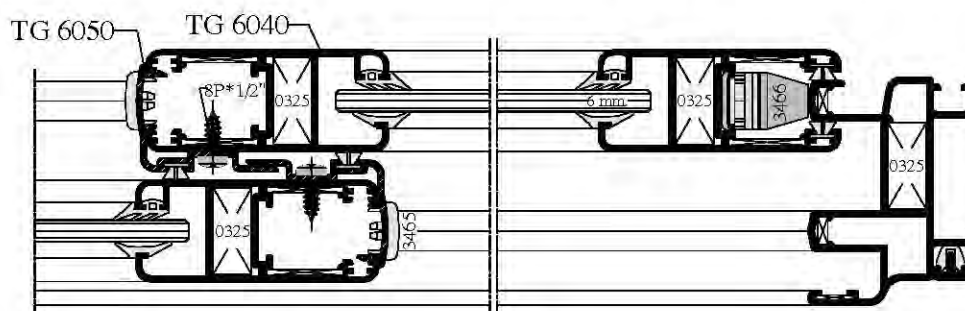
SEC A-A



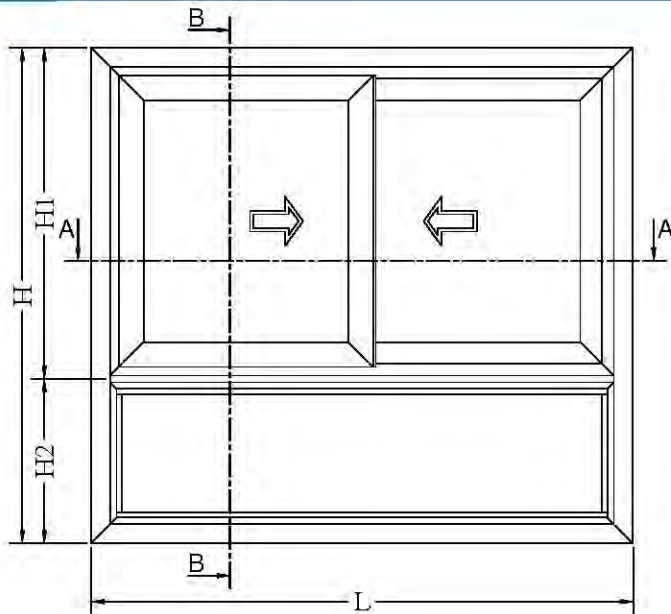
ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	0325	20	Corner Joint
	0550	$\frac{2L+2H}{0.30}$	Clip
	0570	32	Alignment Angle
	0573	8	Alignment Angle
	0574	4	Alignment Angle
	3004	2	Striker
	3040	2	Siwa Lateral Handle
	3150	1	Isis Handle
	3266	1	Single Roller Set-4Pcs
	3365	4	Anti-Dust Caps
	3465	8	Cover Caps
	3466	6	Shock Absorber&Guide
	3510	2	Drange Cover
	GT 0116	2L+8H	Glass Gasket
	GT 0122	2L+8H	Glass Gasket
	WS 7*7 R	4L+10H	Weather Strip



SEC B-B



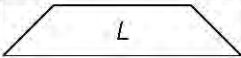
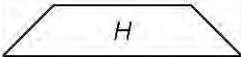
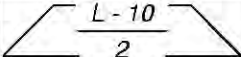
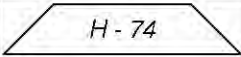
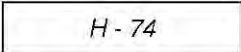
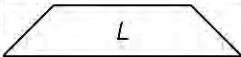
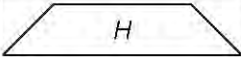
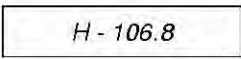
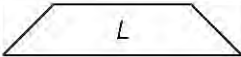
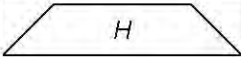
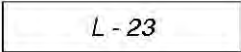
Scale 1:2

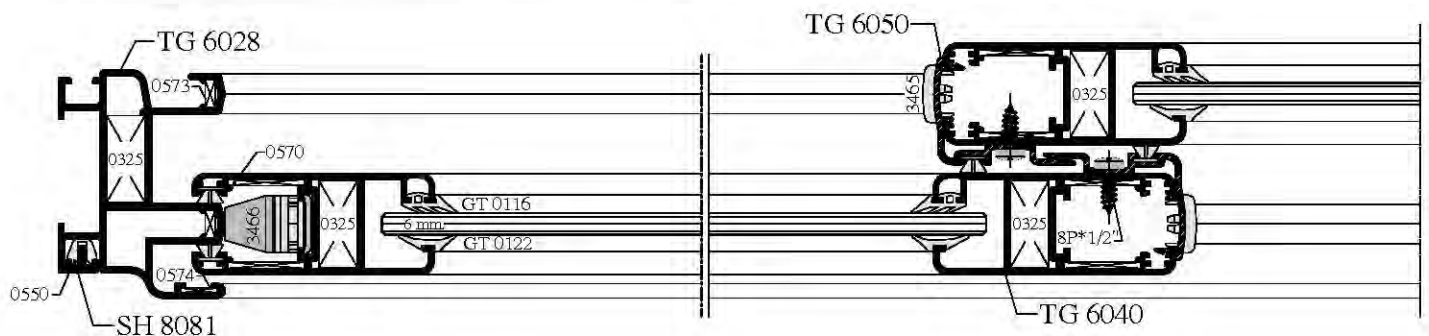


TOTAL WEIGHT	
L (m.) X 7.28 Kg.	+
H1 (m.)X 6.87 Kg.	
H2 (m.)X 2.66 Kg.	

TOTAL =	Kg.

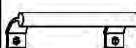
OPTIONAL CUTTING LIST			
	SH 8083	2	
	SH 8083.2	2	
	SH 8085	2	
	SH 8085.2 SH 8085.3	2	
	SH 8086.2	2	
		2	

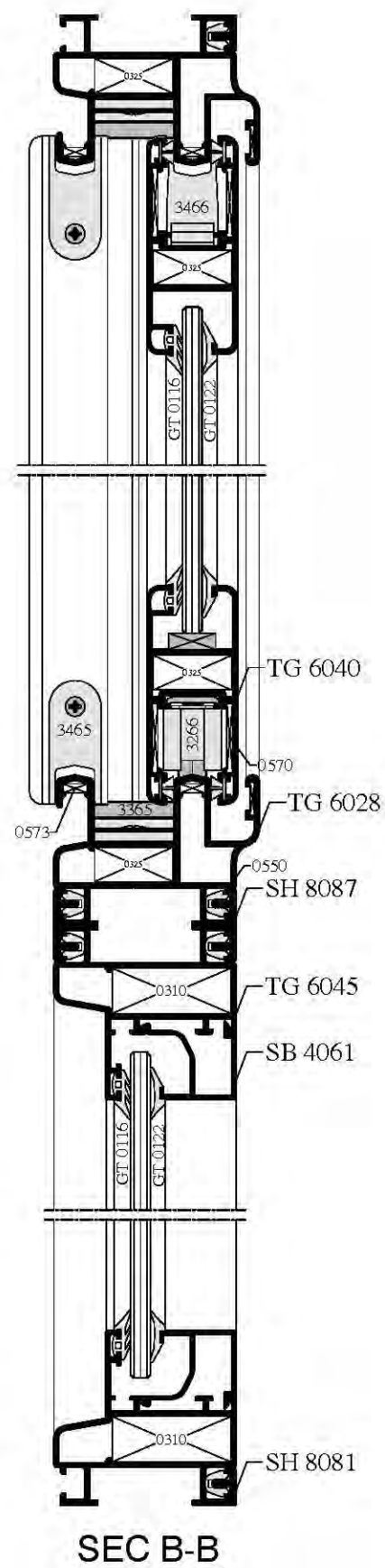
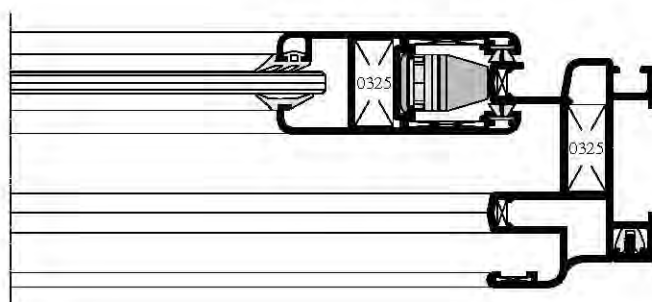
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6028	2	
		2	
	TG 6040	4	
		4	
	TG 6050	2	
	TG 6045	2	
		2	
	SB 4061	2	
		2	
	SH 8081	2	
		2	
	SH 8087	1	
SINGLE GLASS"4-6mm"		2	
			
SINGLE GLASS"4-6mm"		1	
			
ALL DIMENSIONS IN mm.			



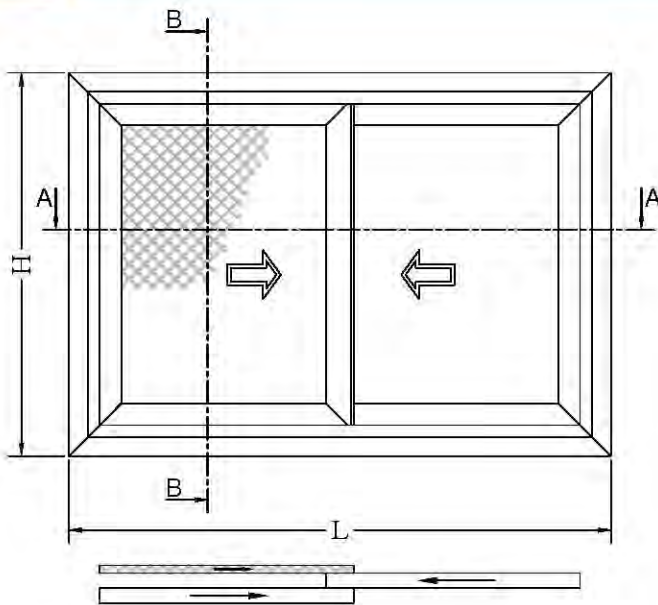
SEC A-A

ACCESSORIES LIST

ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	0310	4	Corner Joint
	0325	12	Corner Joint
	0550	$\frac{2L+2H}{0.30}$	Clip
	0570	16	Alignment Angle
	0573	8	Alignment Angle
	0574	8	Alignment Angle
	3004	2	Striker
	3040	2	Siwa Lateral Handle
	3050	1	Siwa Handle
	3266	1	Single Roller Set-4Pcs
	3365	2	Anti-Dust Caps
	3465	4	Cover Caps
	3466	4	Shock Absorber&Guide
	3510	2	Drange Cover
	GT 0116	4L+4H	Glass Gasket
	GT 0122	4L+4H	Glass Gasket
	WS 7*7 R	4L+6H1	Weather Strip



Scale 1:2

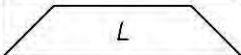
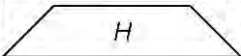
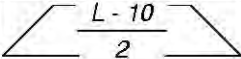
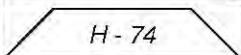
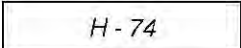
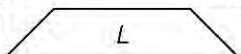
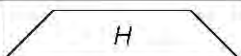
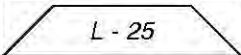
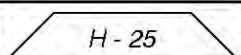
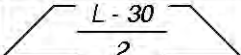
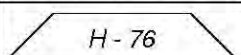
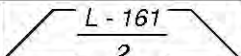
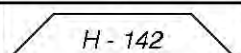


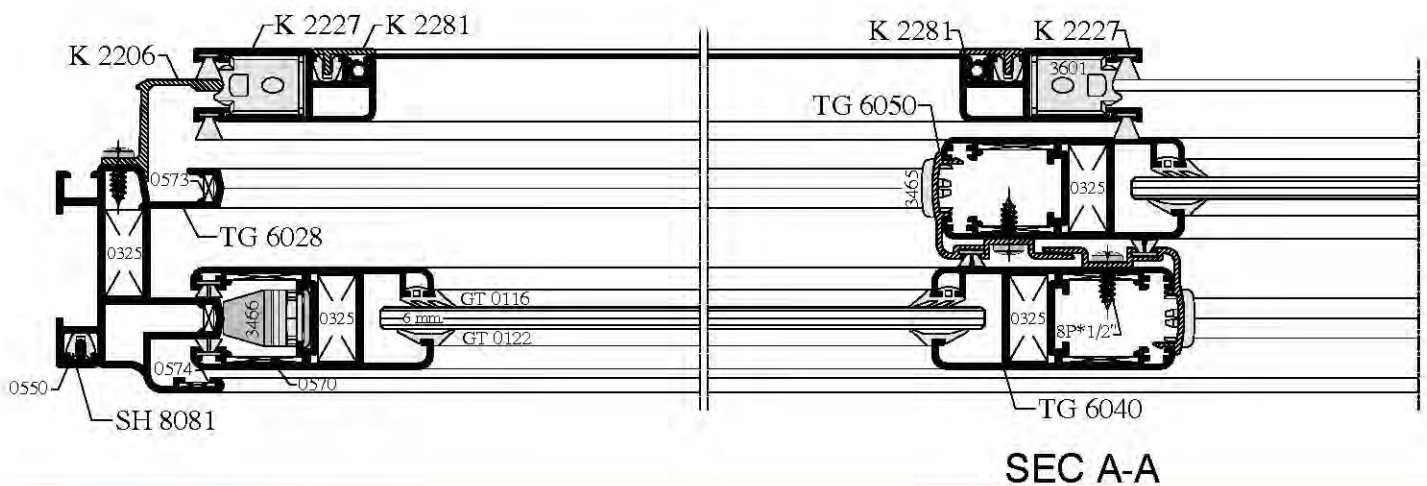
TOTAL WEIGHT	
L (m.) X 5.97 Kg.	+
H (m.) X 8.90 Kg.	
TOTAL=	Kg.

OPTIONAL CUTTING LIST

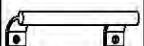
	SH 8083	2	$\frac{L + 60}{2}$
	SH 8083.2	2	$\frac{H + 60}{2}$
	SH 8085	2	$\frac{L + 108}{2}$
	SH 8085.2 SH 8085.3	2	$\frac{H + 108}{2}$
	SH 8086.2	2	$\frac{L + 140}{2}$
		2	$\frac{H + 140}{2}$

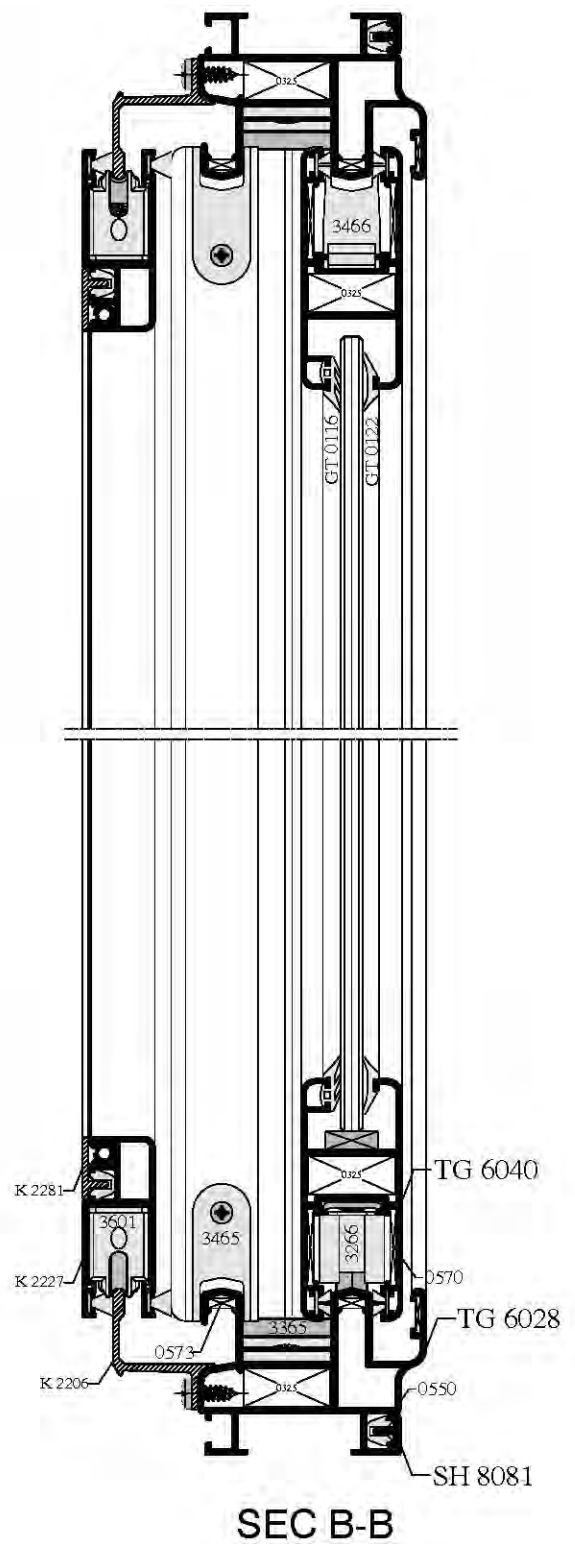
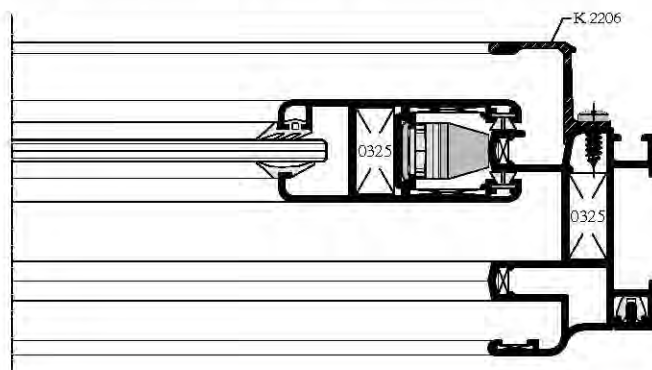
PROFILES CUTTING LIST

FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6028	2	
		2	
	TG 6040	4	
		4	
	TG 6050	2	
	SH 8081	2	
		2	
	K 2206	2	
		2	
	K 2227	2	
		2	
	K 2281	2	
		2	
SINGLE GLASS"4-6mm"		2	
			
ALL DIMENSIONS IN mm.			

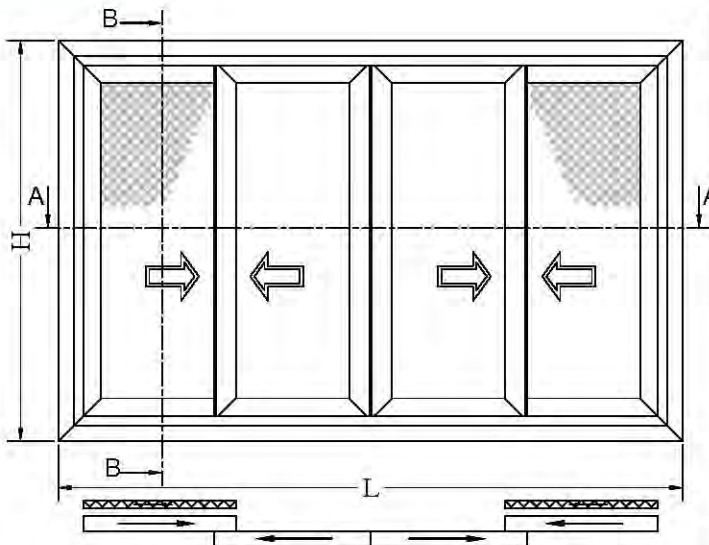




ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	0325	12	Corner Joint
	0550	$\frac{2L+2H}{0.30}$	Clip
	0570	16	Alignment Angle
	0573	8	Alignment Angle
	0574	4	Alignment Angle
	3004	2	Striker
	3040	2	Siwa Lateral Handle
	3050	1	Siwa Handle
	3266	1	Single Roller Set-4Pcs
	3365	2	Anti-Dust Caps
	3465	4	Cover Caps
	3466	4	Shock Absorber&Guide
	3510	2	Drange Cover
	3601	1	Screen Corner Kit
	GT 0116	2L+4H	Glass Gasket
	GT 0122	2L+4H	Glass Gasket
	GT 0181	L+2H	Screen Round Gasket
	WS 5*10	2L+4H	Weather Strip
	WS 7*7 R	4L+6H	Weather Strip



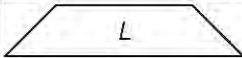
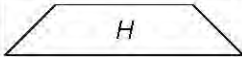
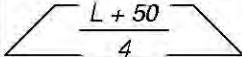
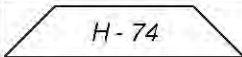
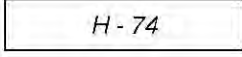
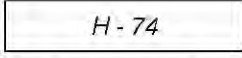
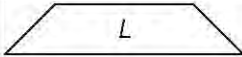
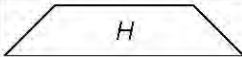
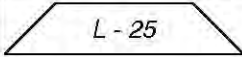
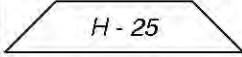
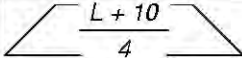
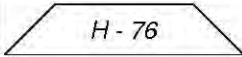
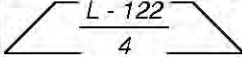
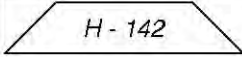
Scale 1:2

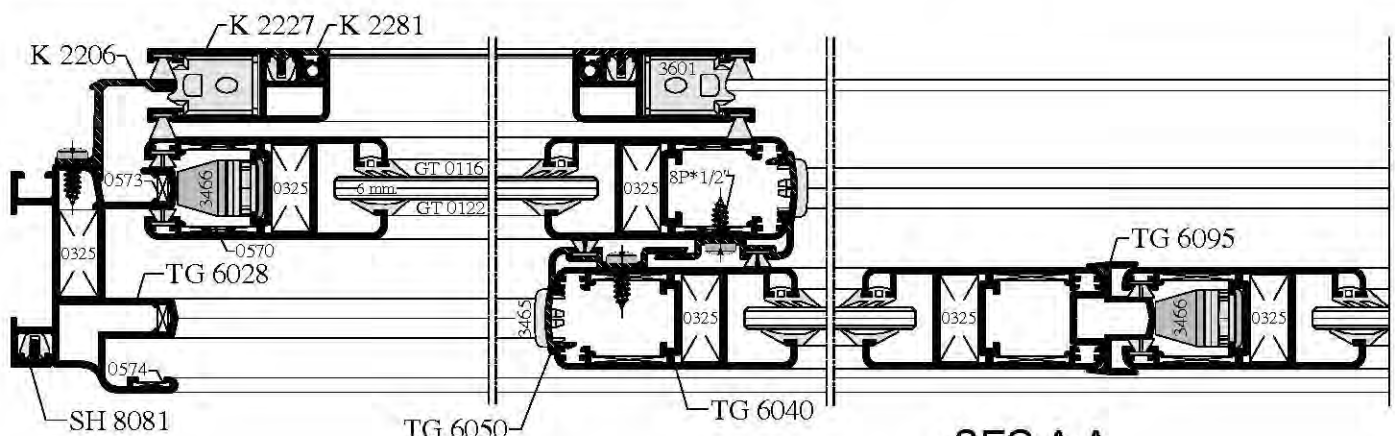


TOTAL WEIGHT	
L (m.) X 5.97 Kg.	+
H (m.) X 15.48 Kg.	

TOTAL =	Kg.

OPTIONAL CUTTING LIST			
	SH 8083	2	$\frac{L + 60}{4}$
	SH 8083.2	2	$\frac{H + 60}{4}$
	SH 8085	2	$\frac{L + 108}{4}$
	SH 8085.2 SH 8085.3	2	$\frac{H + 108}{4}$
	SH 8086.2	2	$\frac{L + 140}{4}$
		2	$\frac{H + 140}{4}$

PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6028	2	
		2	
	TG 6040	8	
		8	
	TG 6050	4	
	TG 6095	1	
	SH 8081	2	
		2	
	K 2206	2	
		2	
	K 2227	4	
		4	
	K 2281	4	
		4	
SINGLE GLASS"4-6mm"		4	
			
ALL DIMENSIONS IN mm.			

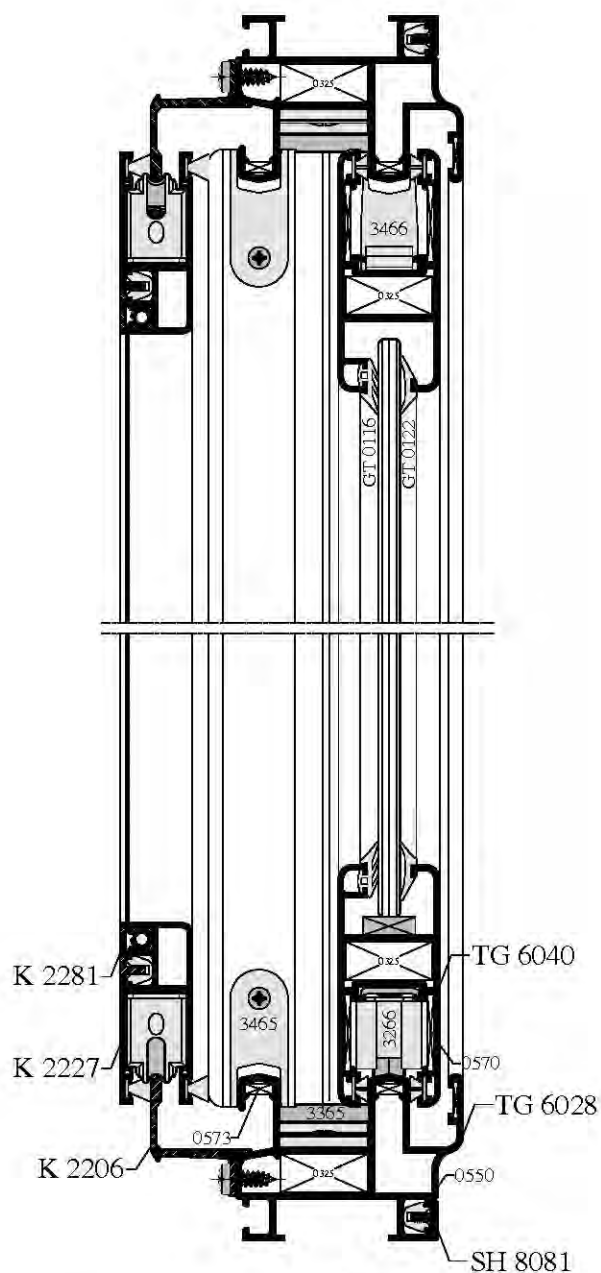


SEC A-A

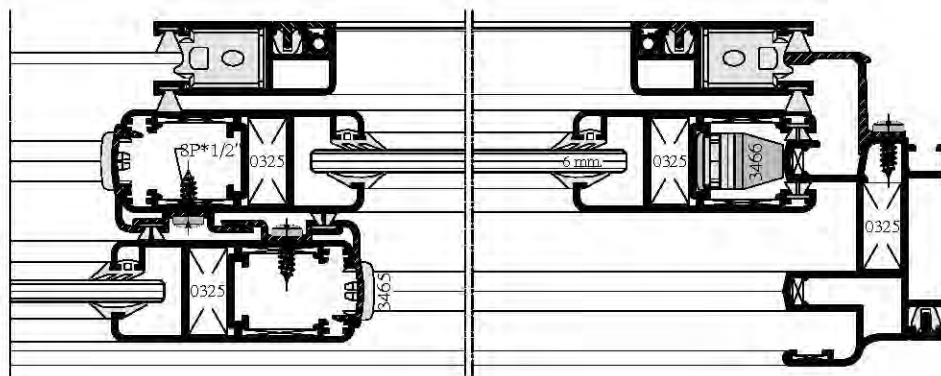


ACCESSORIES LIST

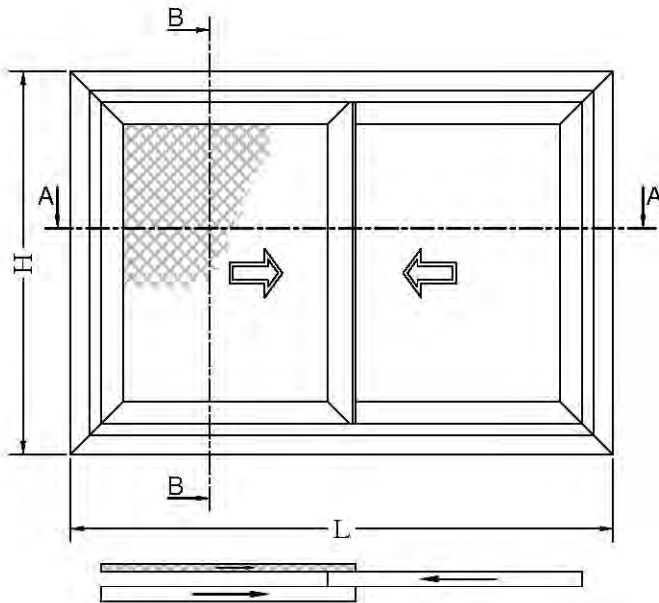
FIGURE	ACC. NO	QTY.	DESCRIPTION
	0325	20	Corner Joint
	0550	$\frac{2L+2H}{0.30}$	Clip
	0570	32	Alignment Angle
	0573	8	Alignment Angle
	0574	4	Alignment Angle
	3004	2	Striker
	3040	2	Siwa Lateral Handle
	3150	1	Isis Handle
	3266	2	Single Roller Set-4Pcs
	3365	4	Anti-Dust Caps
	3465	8	Cover Caps
	3466	6	Shock Absorber&Guide
	3510	2	Drange Cover
	3601	2	Screen Corner Kit
	GT 0116	2L+8H	Glass Gasket
	GT 0122	2L+8H	Glass Gasket
	GT 0181	L+4H	Screen Round Gasket
	WS 5*10	4L+8H	Weather Strip
	WS 7*7 R	4L+10H	Weather Strip



SEC B-B

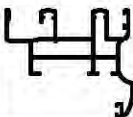


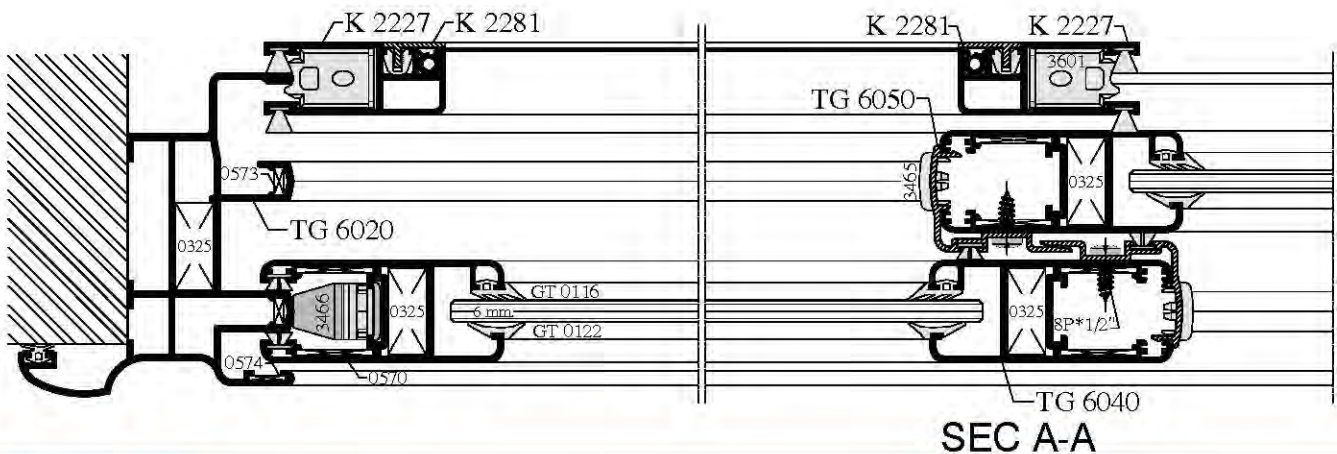
Scale 1:2



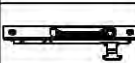
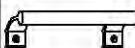
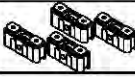
TOTAL WEIGHT	
L (m.) X 6.20 Kg.	+
H (m.) X 9.13 Kg.	

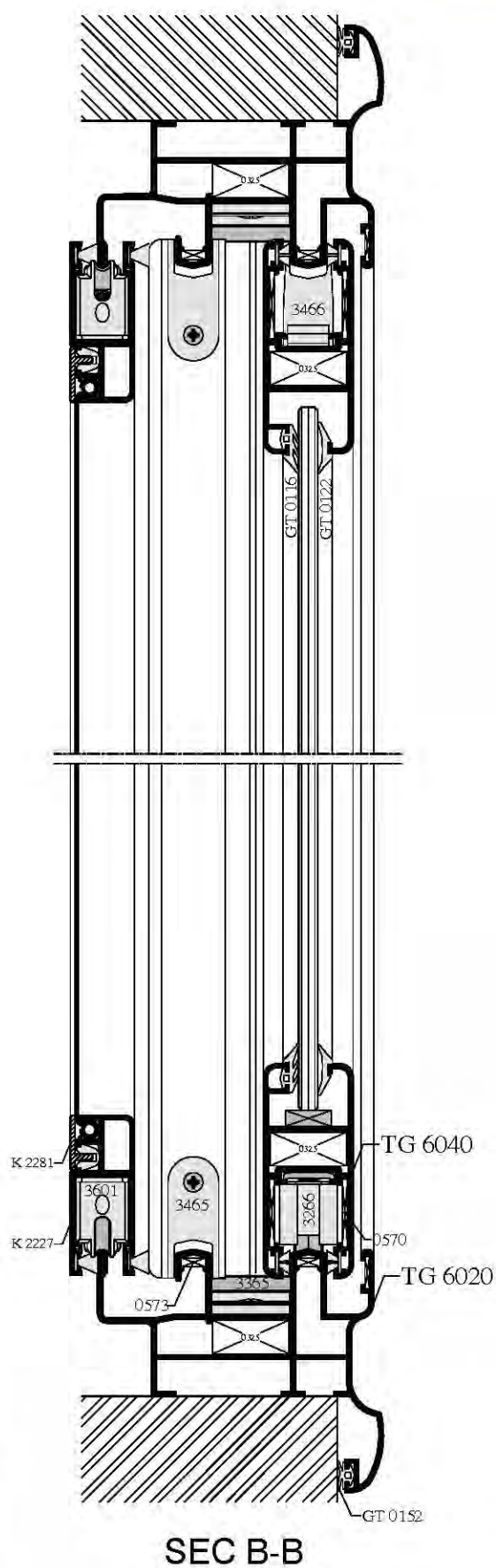
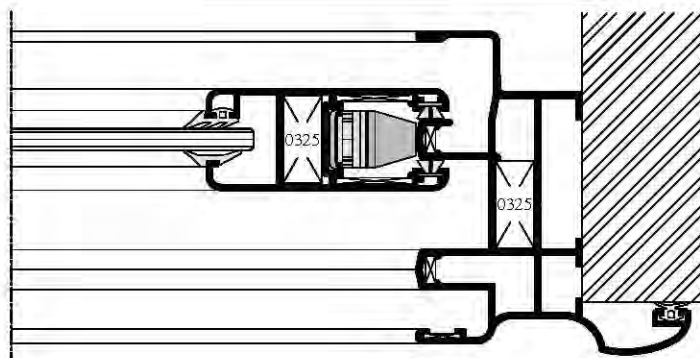
TOTAL=	Kg.

PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6020	2	L + 60
		2	H + 60
	TG 6040	4	L - 10 2
		4	H - 74
	TG 6050	2	H - 74
SINGLE GLASS"4-6mm"		2	L - 220 2
			H - 179
ALL DIMENSIONS IN mm.			

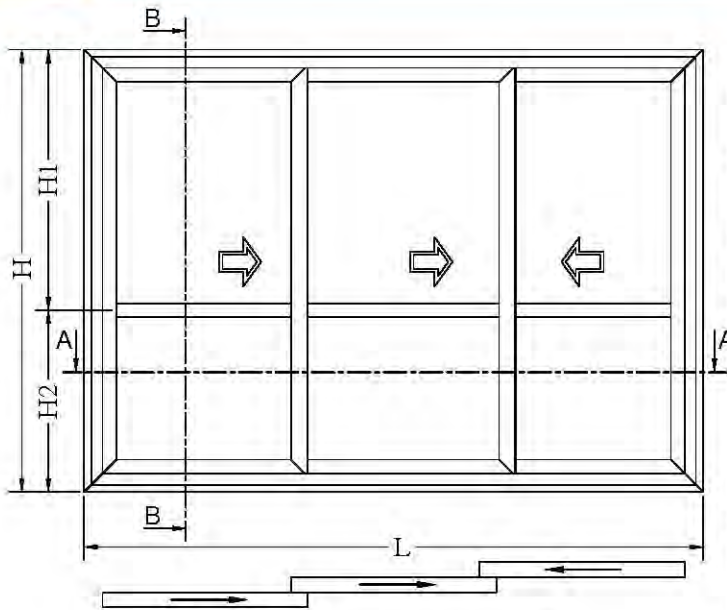


ACCESSORIES LIST

FIGURE	ACC. NO	QTY.	DESCRIPTION
	0325	12	Corner Joint
	0550	$\frac{2L+2H}{0.30}$	Clip
	0570	16	Alignment Angle
	0573	8	Alignment Angle
	0574	4	Alignment Angle
	3004	2	Striker
	3040	2	Siwa Lateral Handle
	3050	1	Siwa Handle
	3266	1	Single Roller Set-4Pcs
	3365	2	Anti-Dust Caps
	3465	4	Cover Caps
	3466	4	Shock Absorber&Guide
	3510	2	Drange Cover
	3601	1	Screen Corner Kit
	GT 0116	2L+4H	Glass Gasket
	GT 0122	2L+4H	Glass Gasket
	GT 0152	2L+2H	Frame Gasket
	GT 0181	L+2H	Screen Round Gasket
	WS 5*10	2L+4H	Weather Strip
	WS 7*7 R	4L+6H	Weather Strip

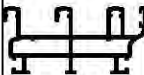
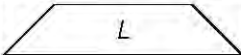
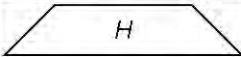
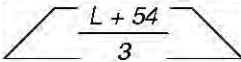
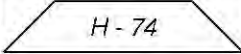
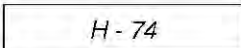
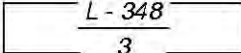
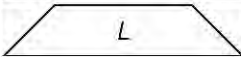
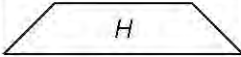


Scale 1:2

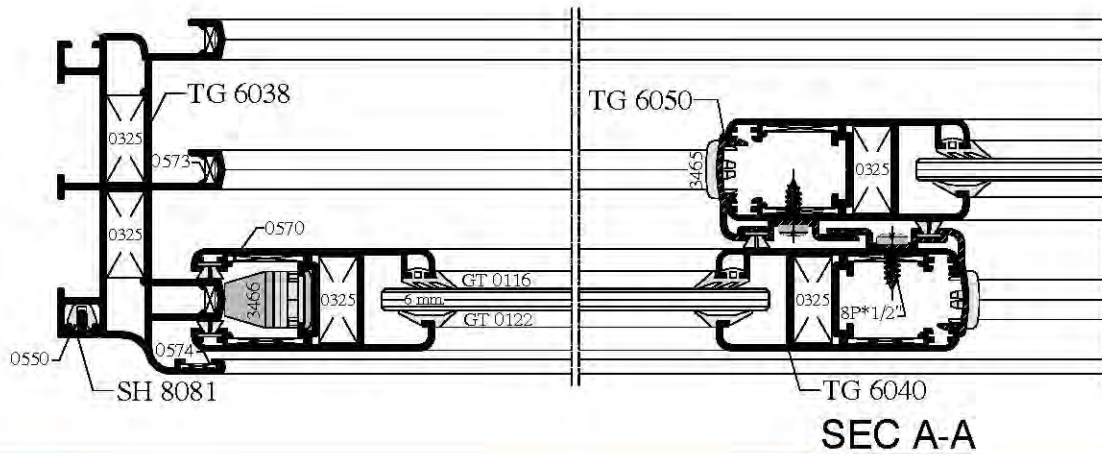


TOTAL WEIGHT	
L (m.) X 6.53 Kg.	+
H (m.) X 10.33 Kg.	

TOTAL =	Kg.

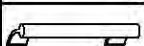
PROFILES CUTTING LIST			
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6038	2	
		2	
	TG 6040	6	
		6	
	TG 6050	4	
	TG 6070	3	
	SH 8081	2	
		2	
SINGLE GLASS"4-6mm"		3	
			H1 - 108.5
SINGLE GLASS"4-6mm"		3	
			H2 - 108.5
ALL DIMENSIONS IN mm.			

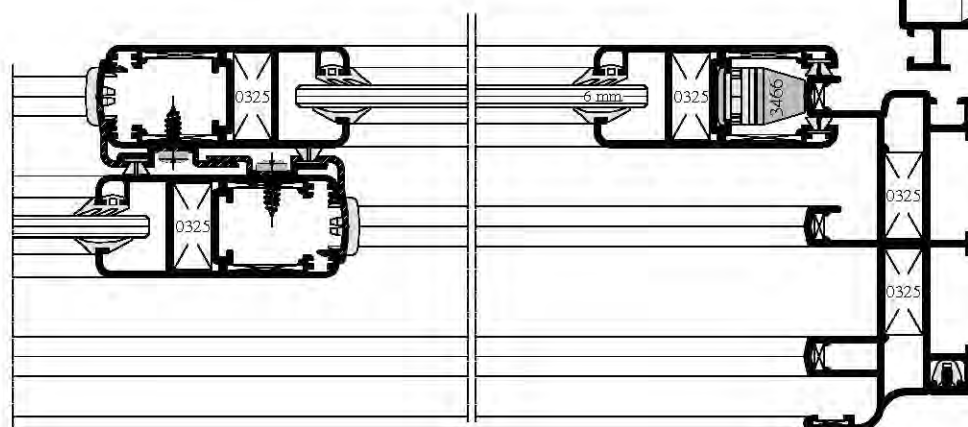
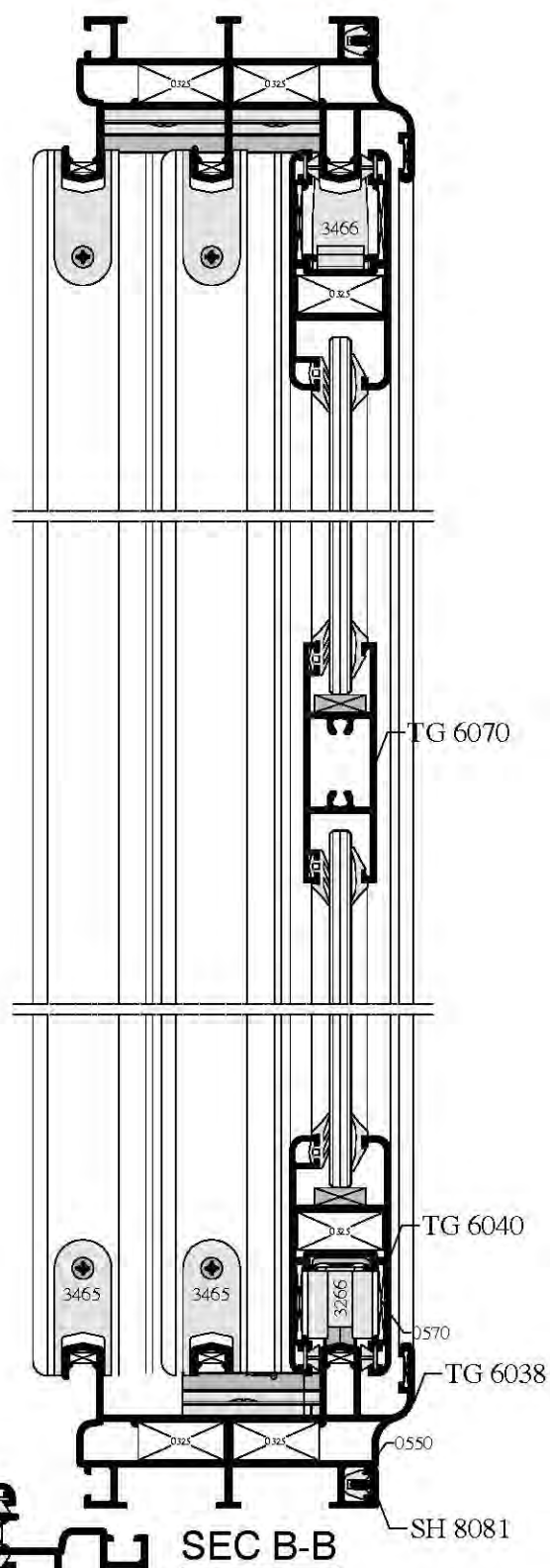
OPTIONAL CUTTING LIST			
	SH 8083	2	L + 60
	SH 8083.2	2	H + 60
	SH 8085	2	L + 108
	SH 8085.2 SH 8085.3	2	H + 108
	SH 8086.2	2	L + 140
		2	H + 140



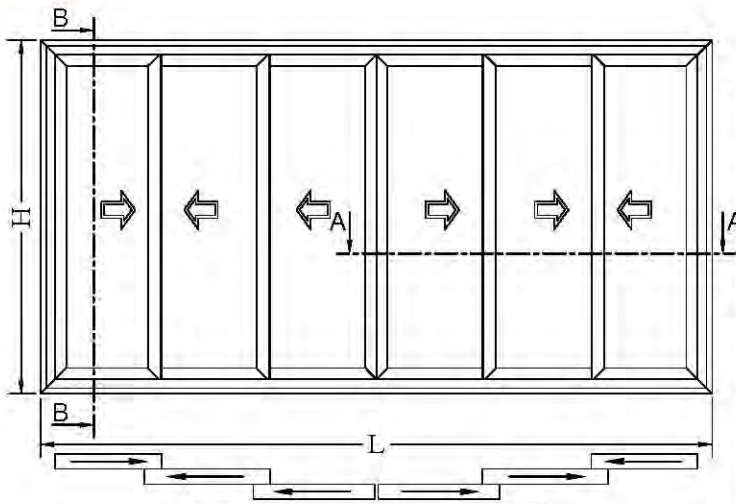


ACCESSORIES LIST

FIGURE	ACC. NO	QTY.	DESCRIPTION
	0325	20	Corner Joint
	0550	$\frac{2L+2H}{0.30}$	Clip
	0570	24	Alignment Angle
	0573	12	Alignment Angle
	0574	4	Alignment Angle
	3004	2	Striker
	3040	2	Siwa Lateral Handle
	3050	1	Siwa Handle
	3266	2	Single Roller Set-4Pcs
	3365	4	Anti-Dust Caps
	3465	8	Cover Caps
	3466	4	Shock Absorber&Guide
	3510	2	Drange Cover
	GT 0116	4L+6H	Glass Gasket
	GT 0122	4L+6H	Glass Gasket
	WS 7*7 R	4L+8H	Weather Strip



Scale 1:2

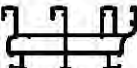
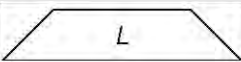
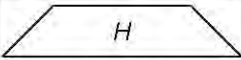
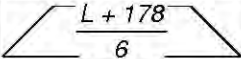
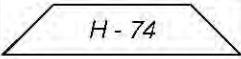
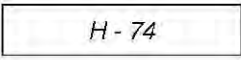
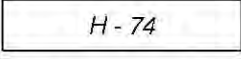
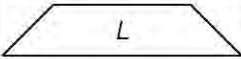
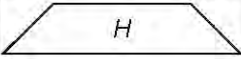


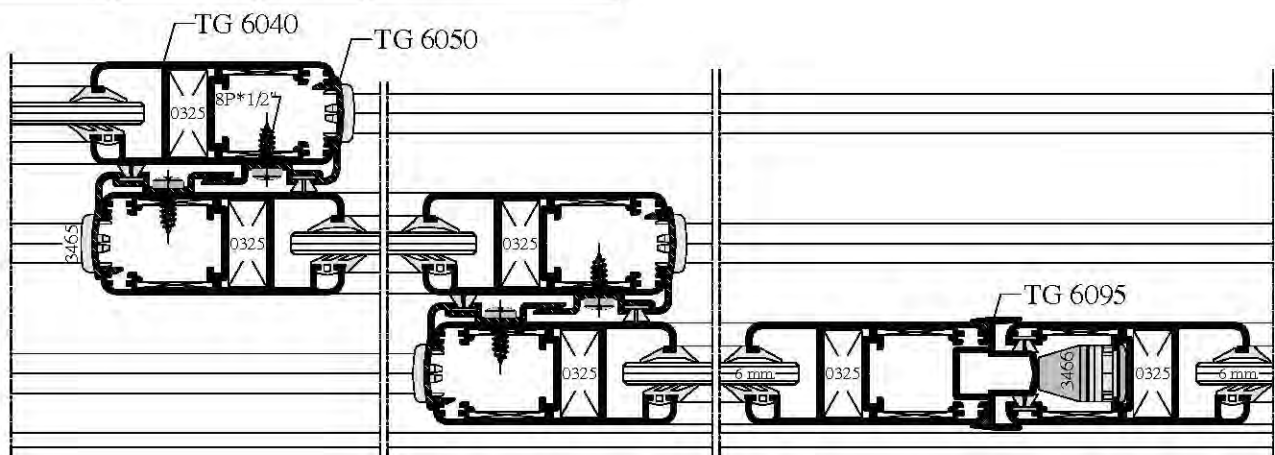
TOTAL WEIGHT	
L (m.) X 5.68 Kg.	+
H (m.) X 17.25 Kg.	
TOTAL =	Kg.

OPTIONAL CUTTING LIST

	SH 8083	2	$L + 60$
	SH 8083.2	2	$H + 60$
	SH 8085	2	$L + 108$
	SH 8085.2 SH 8085.3	2	$H + 108$
	SH 8086.2	2	$L + 140$
		2	$H + 140$

PROFILES CUTTING LIST

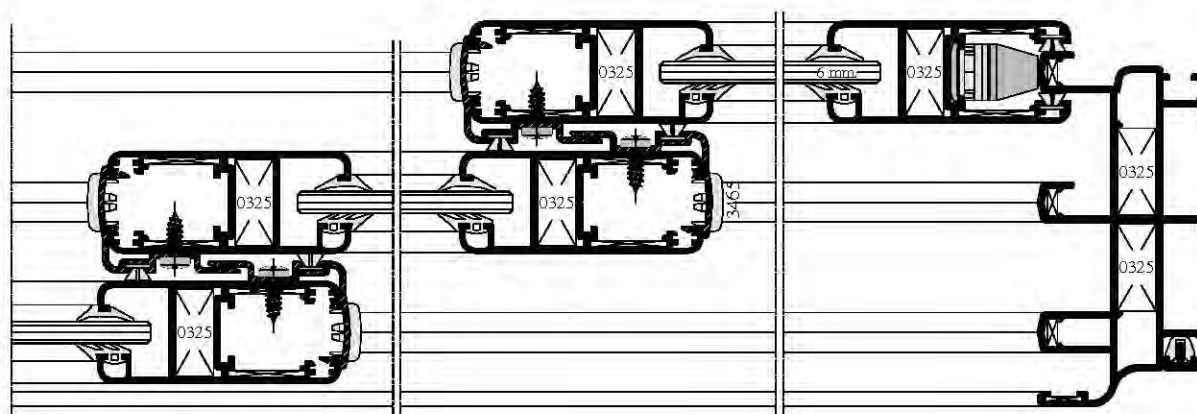
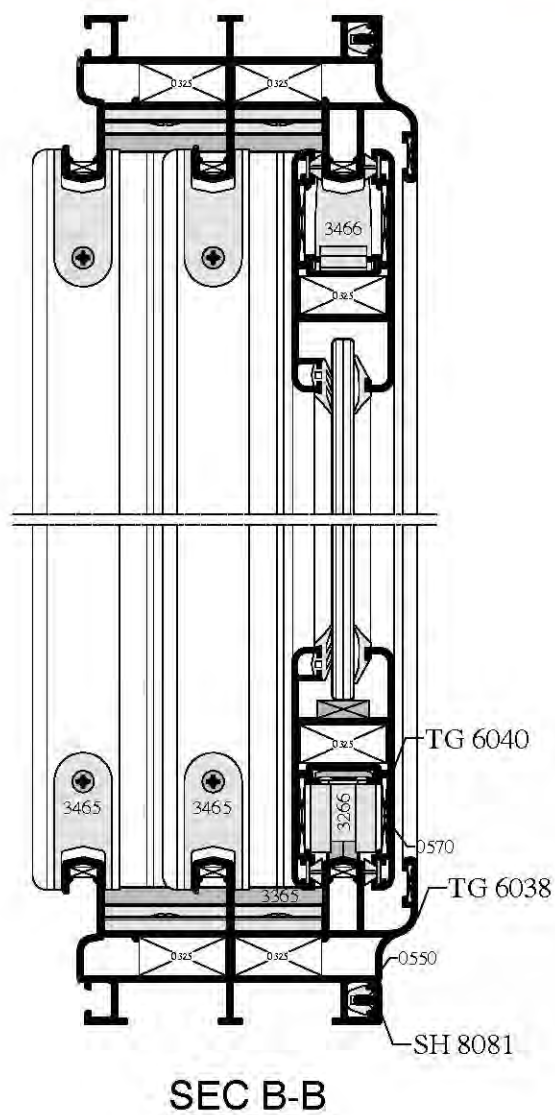
FIGURE	PROF. NO	QTY.	CUTTING LENGTH
	TG 6038	2	
		2	
	TG 6040	12	
		12	
	TG 6050	8	
	TG 6095	1	
	SH 8081	2	
		2	
SINGLE GLASS"4-6mm"		6	
			
ALL DIMENSIONS IN mm.			



SEC A-A



ACCESSORIES LIST			
FIGURE	ACC. NO	QTY.	DESCRIPTION
	0325	32	Corner Joint
	0550	$\frac{2L+2H}{0.30}$	Clip
	0570	48	Alignment Angle
	0573	12	Alignment Angle
	0574	4	Alignment Angle
	3266	3	Single Roller Set
	3365	8	Anti-Dust Caps
	3465	16	Cover Caps
	3466	6	Shock Absorber&Guide
	3510	2	Drange Cover
	GT 0116	4L+12H	Glass Gasket
	GT 0122	4L+12H	Glass Gasket
	WS 7*7 R	4L+14H	Weather Strip



Scale 1:2

All profiles are registered as the property of

Machines & Aluminium Center

122, Mohiy Al-Din Abu Al-Ezz st. , Dokki , Giza. P.O Box: 329 Dokki 12411

Tel: +20 (2) 33363658 - 33363657 - 33360568 Fax: +20 (2) 33356237

Email: info@machalum.com

