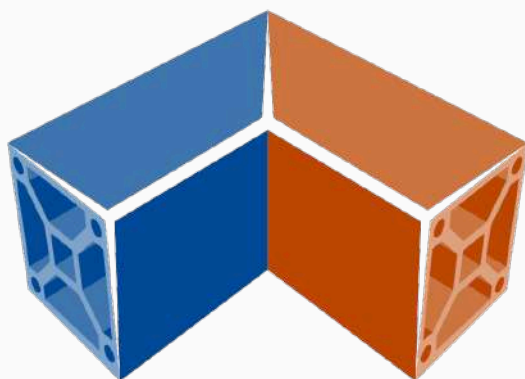




QALEX

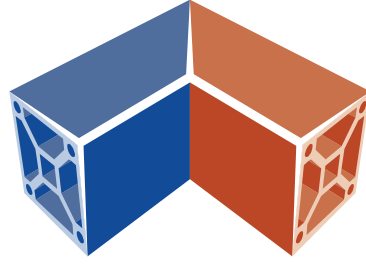
الشركة القطرية لسحب الألمنيوم

QATAR ALUMINIUM EXTRUSION CO.

BEAR CASEMENT SYSTEM

**QALEX SYSTEM
TECHNICAL CATALOGUE**

QATAR ALUMINIUM EXTRUSION COMPANY



QALEX

الشركة القطرية لسحب الألمنيوم

QATAR ALUMINIUM EXTRUSION CO.

BEAR CASEMENT SYSTEM

QALEX SYSTEM TECHNICAL CATALOGUE

P.O. Box: 201698, New Industrial Area, Area No. 81, Street No. 12,
Gate No.132, Pink Zone, Doha - Qatar.

Phone: (+974) 44 333 555/541/540, Fax: (+974) 44 333 500,

Mail: info@qalex.com.qa

www.qalex.com.qa

COMPANY PROFILE



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203



COMPANY PROFILE:

Qatar Aluminium Extrusion Company is the brainchild of QIMC (Qatar industrial Manufacturing company) jointly hosted along with other business tycoons of Qatar, viz. Salam International Investment Ltd, Alutec, Qatar Real Estate Investment Co., Aluminium Gulf Ray, Qatar Oman Investment Co. & Qatar Belgium Aluminium Co.

Multi Million project proudly designed and built with state of art technology plant & equipment majestically located at the pink zone of new industrial area. The plot of 28,000 sq mtrs aesthetically landscaped and engulfing a steel structure of 13,000 sq mtrs which houses modern extrusion production facilities.

CAPABILITIES & FACILITIES:

We are equipped with the following world class equipment.

- Japan origin 2250 MT Extrusion Press with 4S (Stem Shift Short Stroke) technology with an annual capacity of 8,000 MT to 10,000 MT.
- US origin Hot Log Shear which allows to reduce both material inventory and scrap generation because it cuts the billets to correct length as needed targeting maximum yield.
- US Origin log oven with designed capacity of 4,000 Kgs of output per hour.
- US Origin taper quench unit of billets for achieving quality extrusion by maintaining constant extrude temperature and very much essential for aluminium extrusions.
- US Origin Intense run our cooling system for both hard & architectural alloys.
- US Origin Double puller operation for improved productivity & short idle time.
- US Origin Stretcher which deliver precise accurate stretching which enhances profile quality and keeps scrap to a minimum.
- US Origin Precision profile cutting finish saw delivers a highly accurate cut with accuracy, safety and easy to use and with maximum cutting length up to 8,500 mm & extendable further on special cases.



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الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203



- US Origin Ageing oven are designed to deliver rapid complete ageing of profile in every batch which translates into maximum profile quality.
- Die ovens are engineered for quick and uniform heating resulting in less strain on the press and better quality for extrusion.
- Fluidized Nitriding furnace to enhance the surface quality of the products.

OUR PRODUCTS:

A) MILL FINISH

- Mill Finish.
- Architectural Alloys i.e. 6063.
- Structural Alloys i.e. 6061 & 6082.
- Other 6000 series alloys on availability.
- Minimum cut length 1,500 mm.
- Maximum cut length of 8,500 mm.
- Excess cut length in mill finish can be considered on special request and to a whopping 16m for some sections.
- With different temper like T4, T6 etc.
- Large number of profile forms and shapes can be developed on request.

B) POWDER COATING

- Powder Coating in many RAL colour.
- Maximum profile length of 7,500 mm.
- Equipped laboratory to test coating quality.
- 70 to 80 microns international standard coating thickness.
- Minimum 60 microns confirmed coating thickness.
- Powder for international renowned brand.
- Regionally accepted guarantee period for coating.



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203



GALEX ADVANTAGES FOR QATAR:

- Locally based company with easy & economical accessibility.
- Technical assistance is available at hand reach.
- Immediate response to quality related issues.
- No border hassle for documental procedure.
- No bulk import and naturally no revenue block.
- Less inventory and so reduced storage space and no cash block.
- Quicker supply time which helps for quicker mock up work.
- Everything is in JIT basis (Just in Time).
- Flexible terms and condition on sales / shipment.

QATARI ESSENCE IN GALEX:

- Hosted by Qatar Industrial Manufacturing Company.
- Ably co – hosted and supported by Salam International Investment Limited, Alutec, Aluminium Gulf Ray, Qatar Real Estate Investment Co., Qatar Oman Investment Co., and Qatar Belgium Aluminium Co., (All are Qatar based Company).
- The Products are procured, manufactured & fabricated in QATAR.
- Added value as raw material is produced by QATALUM.
- Powder supplied by KAHRAMAA, a Qatari Government Corp.
- Gas produced by QP & distributed by WOQOD.
- Reduced material wastages, which are totally recycled.



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



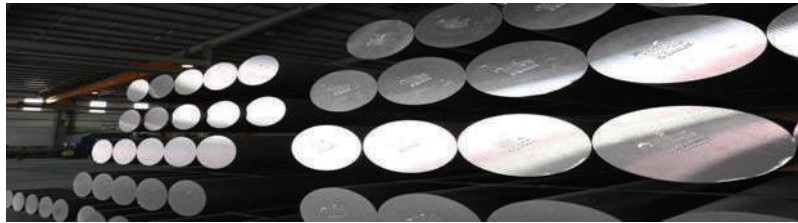
Licence: 4203



SOURCE OF RAW MATERIAL SUPPLY

ALUMINIUM LOGS:

- Aluminium Logs supplied by QATALUM, A Qatari Government Company.



- Architectural Alloys i.e. 6005 & 6063 ,6060.
- Structural Alloys i.e. 6082 & 6061.
- Other 6000 series alloys on availability.

POWDER COATING:

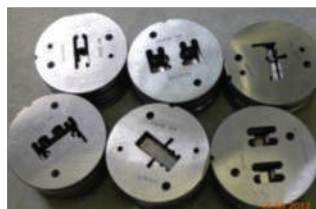
- Powder coating supplied by JOTUN POWDER COATINGS & AKZONOBEL.



- Powder coating available in many RAL colour.

ALUMINIUM EXTRUSION DIE & TOOLINGS HAS BEEN OUT SOURCED FROM MANY SUPPLIERS ACROSS EUROPIEN REGION:

- ALUTOOL, UK.
- EROGA, UK.
- ELITE, UK.
- EKSENAL, TURKEY.
- Many more.



CERTIFICATES



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.

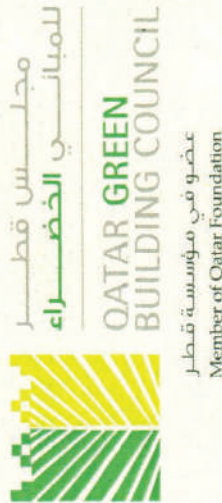


Licence: 4203

Certificates



Together,
let's build
a sustainable
tomorrow



Certificate of Membership

This to certify that

Qatar Aluminium Extrusion Co.

is an Organization Member of Qatar Green Building Council
and is committed to promote sustainable building practices

Membership No: O-1116 Membership effective: 1st Jan 2017 to 31st Dec 2017


Mesher Mohammed Al-Shamari
Director
Qatar Green Building Council



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الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



QATAR ALUMINIUM EXTRUSION CO.

USGBC MEMBER SINCE NOV 15, 2020

Is an active member of the U.S. Green Building Council, the foremost coalition of leaders working to transform the way buildings and communities are designed, built and operated. Our vision is that buildings and communities will regenerate and sustain the health and vitality of all life within a generation.

This membership was awarded on Nov 15, 2020.

Mahesh Ramanujam

MAHESH RAMANUJAM
President & CEO



USGBC
MEMBER

SILVER



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



CERTIFICATE

for a COATING APPLICATOR



hereby authorises

QATAR ALUMINIUM EXTRUSION COMPANY

Street No 12, Zone No 81, Building No. 132, Pink Zone
New Industrial Area, P.O. Box 201698
Doha
Qatar

to use the quality label in conformity with the
QUALICOAT 2022 Specifications, applicable from 1 January 2022

Licence No.: 4203

Date of Granting: 10.04.2013

Valid until: 31.12.2022

Zurich, 1 January 2022

QUALICOAT

Ivo Vermeeren
President



Sue C. C. Paredi
Managing Director





GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



المجلس الخليجي للألمنيوم
GULF ALUMINIUM COUNCIL

We hereby certify

that

Qatar Aluminium Extrusion Company

Doha, Qatar

is an *Associate Member* of
Gulf Aluminium Council

Effective from 1st of January 2013

Mahmood Daylami
Secretary General



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



intertek
Total Quality. Assured.

CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

QATAR ALUMINIUM EXTRUSION COMPANY

Main Site: New Industrial Area, Area No.81, Gate No.132, Street No. 12,
Pink Zone, P.O.BOX201698, Doha, Qatar

Additional Site: QATAR ALUMINIUM EXTRUSION COMPANY, Zone- 92,
Street – 709 , Building No. – 11, P.O. Box-201698, Mesaieed Light
Industrial Area, Qatar

has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

Manufacturing and Supply of Aluminium Extruded Profiles in different
finishes (Mill Finish, Anodizing, Powder coating) for Architectural and
Industrial Application.

Certificate Number:

0111973

Initial Certification Date:

07 June 2018

Date of Certification Decision:

27 March 2021

Issuing Date:

27 March 2021

Valid Until:

06 June 2024



Intertek



014

Calin Moldoveanu

President, Business Assurance

Intertek Certification Limited, 10A Victory Park,
Victory Road, Derby DE24 8ZF, United Kingdom

Intertek Certification Limited is a UKAS
accredited body under schedule of
accreditation no. 014.



In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at certificate.validation@intertek.com or by scanning the code to the right with a smartphone. The certificate remains the property of Intertek, to whom it must be returned upon request.





GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



intertek
Total Quality. Assured.

CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

QATAR ALUMINIUM EXTRUSION COMPANY

Main Site: New Industrial Area, Area No.81, Gate No.132, Street No. 12,
Pink Zone, P.O.BOX201698, Doha, Qatar

Additional Site: QATAR ALUMINIUM EXTRUSION COMPANY, Zone- 92,
Street – 709 , Building No. – 11, P.O. Box-201698, Mesaieed Light
Industrial Area, Qatar

has been registered by Intertek as conforming to the requirements of:

ISO 14001:2015

The management system is applicable to:

Manufacturing and Supply of Aluminium Extruded Profiles in different
finishes (Mill Finish, Anodizing, Powder coating) for Architectural and
Industrial Application.

Certificate Number:

0111974

Initial Certification Date:

07 June 2018

Date of Certification Decision:

27 March 2021

Issuing Date:

27 March 2021

Valid Until:

06 June 2024



Intertek



Calin Moldoveanu

President, Business Assurance

Intertek Certification Limited, 10A Victory Park,
Victory Road, Derby DE24 8ZF, United Kingdom

Intertek Certification Limited is a UKAS
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الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



intertek
Total Quality. Assured.

CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

QATAR ALUMINIUM EXTRUSION COMPANY

Main Site: New Industrial Area, Area No.81, Gate No.132, Street No. 12,
Pink Zone, P.O.BOX201698, Doha, Qatar

Additional Site: QATAR ALUMINIUM EXTRUSION COMPANY, Zone- 92,
Street – 709 , Building No. – 11, P.O. Box-201698, Mesaieed Light
Industrial Area, Qatar

has been registered by Intertek as conforming to the requirements of:

ISO 45001:2018

Certified to OHSAS 18001:2007 from 07.06.2018 to 19.03.2021

The management system is applicable to:

Manufacturing and Supply of Aluminium Extruded Profiles in different
finishes (Mill Finish, Anodizing, Powder coating) for Architectural and
Industrial Application.

Certificate Number:

0111976

Initial Certification Date:

07 June 2018

Date of Certification Decision:

27 March 2021

Issuing Date:

27 March 2021

Valid Until:

06 June 2024



Intertek



014

Calin Moldoveanu

President, Business Assurance

Intertek Certification Limited, 10A Victory Park,
Victory Road, Derby DE24 8ZF, United Kingdom

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accredited body under schedule of
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الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



MEMBERSHIP CERTIFICATION

This is to certify that

QATAR ALUMINIUM EXTRUSION CO.

P.O. BOX 201698, DOHA, QATAR

Membership Ref.: A031

is a member of the Quali Middle East Association and is a signatory to the policies and procedures related to the membership of the Association.

Period of validity of the certificate: until 31.12.2022

Dubai, 31 December 2021

QUALI MIDDLE EAST ASSOCIATION

Nasir Fahmeed
General Secretary



Mailing address: Quali Middle East Association
c/o Dubai Association Centre, Office 207 (16), Level 2
Building 2 at One Central, Dubai World Trade Centre
Dubai, United Arab Emirates

P.O. Box 23070, Dubai-UAE
Phone: +971 4 516 3052-3
E-Mail: admin@qualimiddleeast.com
Internet: www.qualimiddleeast.com



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الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



TECHNOFORM

CERTIFICATE OF QUALITY

This is to certify that

Qatar Aluminium Extrusion Co.

fulfils the requirements set by Technoform in the assembly of quality Thermal Break Systems.
The aforementioned company possesses adequate technical know-how, and uses only genuine
polyamide strips made of PA66/GF25, in compliance with Technoform's standards.



Certified till December, 2019


TECHNOFORM MEIA
Managing Director



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



Authorization to use the quality sign



This is to certify that

QATAR ALUMINIUM EXTRUSION COMPANY

New Industrial Area, Area No. 81, Street No 12
Gate No. 132, Pink Zone, P.O. Box 201698
QA – Doha

Licence number: 3801

is authorized to use the quality sign which is shown above, according to the regulations for the use of the quality label for ARCHITECTURAL ANODIZING as described in the current edition of the Specifications for the QUALANOD quality label for sulfuric acid-based anodizing of aluminium (Edition 01.01.2021). Architectural anodizing is one of the four types of anodizing covered by the Specifications.

Date of issue of the licence:

19.09.2018

Period of validity of the licence:

until 31.12.2022

Zurich, 10 December 2021

QUALANOD

CERTIFICATION BODY

Dr. Metin Yilmaz
President

Monica Gerber
General Secretary



Website: www.qualanod.net

E-Mail: info@qualanod.net // Phone: +41 (0)43 305 09 77 / 81

Mailing address:
QUALANOD, P.O. Box, CH-8027 Zurich

Domicile:
QUALANOD
c/o ARCO Association Management AG
(certification body)
Tödistrasse 42, CH-8002 Zurich

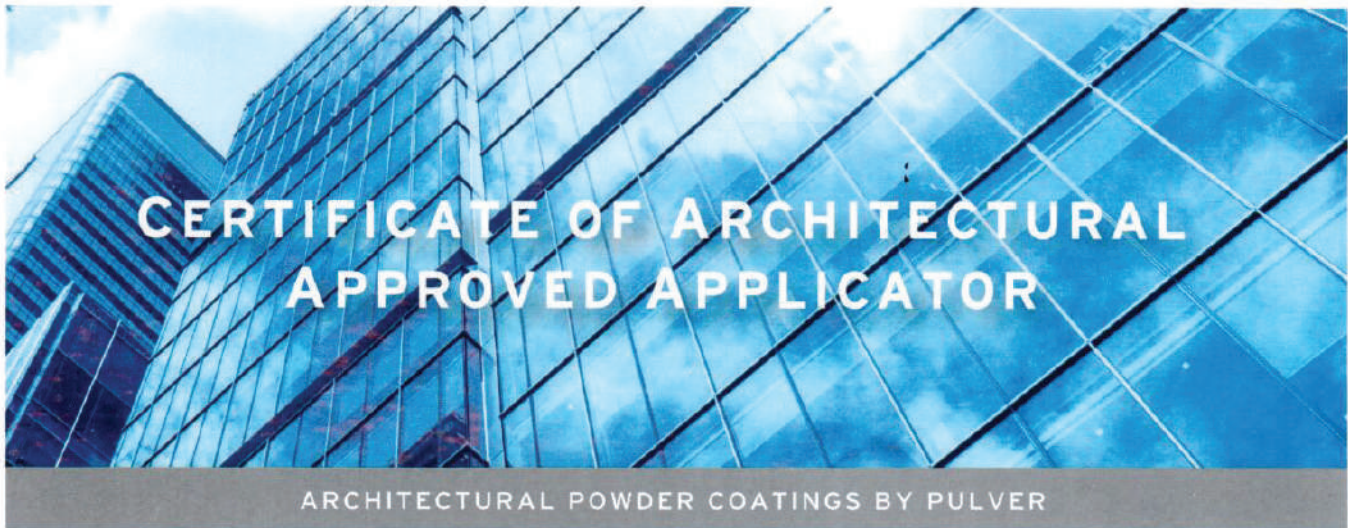


GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



QATAR ALUMINIUM EXTRUSION CO. (GALEX)

Fulfills the requirements of the quality management of
Pulver Architectural Powder Coatings Standards
pre-treatment and the application procedures.

Hakan Akbal
EXPORT MANAGER



This certificate is valid until 31.03.2021



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



Certificate of Approval

Qatar Aluminium Extrusion Co.

is certified as an Approved Applicator to coat

Jotun Facade

a product from Jotun Powder Coatings

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



January 01, 2021

(Certificate valid for one year from date above)

Authorised Signatory
Jotun Powder Coatings UAE (LLC)



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الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



Certificate of Approval

Qatar Aluminium Extrusion Co.

is certified as an **Approved Applicator** to coat

Jotun Super Durable

a product from **Jotun Powder Coatings**

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



January 01, 2021

(Certificate valid for one year from date above)

Authorised Signatory
Jotun Powder Coatings UAE (LLC)



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



Certificate of Approval

Qatar Aluminium Extrusion Co.

is certified as an Approved Applicator to coat

Jotun Durasol

a product from Jotun Powder Coatings

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



January 01, 2021

(Certificate valid for one year from date above)

Authorised Signatory
Jotun Powder Coatings UAE (LLC)



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الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



AkzoNobel

Interpon D Approved Applicator

Interpon D1000 Series

Qatar Aluminium Extrusion Co
P.O. Box 201698, New Ind Area, Doha
QATAR

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

01 January 2021 to 31 December 2021

Approved for Aluminium Alloys AA 6063

Approved for Pre-treatment Type Chrome-free

António Balsinha
Business Manager
Powder Coatings – Middle East

Date: 29/12/2020

Certification number N° QAT03D1

AkzoNobel U.A.E. Paints L.L.C.



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



Interpon
powder coatings
EVERY COLOR IS GREEN

AkzoNobel

Interpon D Approved Applicator

Interpon D2000 Series

Qatar Aluminium Extrusion Co
P.O. Box 201698, New Ind Area, Doha
QATAR

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

01 January 2021 to 31 December 2021

Approved for Aluminium Alloys AA 6063

Approved for Pre-treatment Type Chrome-free

António Balsinha
Business Manager
Powder Coatings – Middle East

Date: 29/12/2020

Certification number N° QAT03D2

AkzoNobel U.A.E. Paints L.L.C.



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



Interpon
powder coatings
EVERY COLOR IS GREEN

AkzoNobel

Interpon D Approved Applicator

Interpon D3000 Series

Qatar Aluminium Extrusion Co
P.O. Box 201698, New Ind Area, Doha
QATAR

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

27 April 2021 to 26 April 2022

Approved for Aluminium Alloys AA 6063

Approved for Pre-treatment Type Chrome-free

António Balsinha
Business Manager
Powder Coatings – Middle East

Date: 23/04/2021

Certification number N° QAT03D3

AkzoNobel U.A.E. Paints L.L.C.



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



Certificate of conformity

CE

This is to Certify that the Product

Aluminum Extruded Profiles

*Type & Model: Aluminum Extruded Profiles in different finishes
(Mill finish, Anodizing, Powder Coating)*

Manufactured by

Qatar Aluminium Extrusion Company

P.O. Box 201698, New Industrial Area, Area No. 81, Gate No. 132, Street No. 12, Pink Zone, Doha, Qatar

Has been independently assessed and is compliant
With the requirements of

Directive of Construction Products 89/106/EEC Regulation No 305/2011

Standards Applied: EN 15088:2005, EN 573-3:2013

A technical documentation is completely available. For the compilation of all technical documents is authorized.

Certificate No: CE890-19
Issue Date: 23 July 2019
Expiry Date: 10 July 2022


 **President**

 
Accredited Certification
CAS # M1532967AS



This certificate certifies the original certificate issued and is valid as long as it is displayed as an electronic copy at www.iqs-certified.com and constitutes both an authenticity document.

International Quality Service IQS Ltd. England registered



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203

Certificates



www.eurocert.gr

CERTIFICATE

of Conformity of the Factory
Production Control

Certificate No.: 1128-CPR-0148

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction products:

COATED & UNCOATED ALUMINUM EXTRUDED PROFILES AND COATED & UNCOATED ALUMINUM PRECISION PROFILES

PRODUCT	GENERAL PROVISIONS / ASSESSMENT AND TEST METHODS	REQUIREMENTS FOR SPECIFIC PROPERTIES (REFERENCED IN PRODUCT STANDARDS)	
		MECHANICAL PROPERTIES	TOLERANCES
EXTRUDED PROFILES	EN 755-1	EN 755-2	EN 755-9
PRECISION PROFILE	EN 12020-1	EN 755-2	EN 12020-2

TABLE 1 – REQUIREMENTS AND GENERAL PROVISIONS “EN 15088:2005”

Placed on the market under the name or trade mark of:

« QATAR ALUMINIUM EXTRUSION COMPANY »

New Industrial Area Street No 12, Plot No 8101 and 8102, Pink Zone, Doha, Qatar

and produced in the manufacturing plant:

New Industrial Area Street No 12, Plot No 8101 and 8102, Pink Zone, Doha, Qatar

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards:

EN 15088 : 2005

under system 2+ are applied and that the factory production control is assessed to be in conformity with the applicable requirements.

This certificate was first issued on **2020-02-06** and will remain valid until **2023-02-06** as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the Notified Factory Production Control Certification Body

For the Notified Body

Date of 1st issue: **2020-02-06**

Briskolas George
Managing Director



The validity of this certificate is subject to annual surveillances.

Check the validity of the certificate from our website using the password **56DK4v3T**

Lack of fulfillment of the conditions set out in the CPR.0148 contract may render this certificate invalid.



Product Certification
CERT.No.21

89, Chlois & Lykovriseos str., 14452, Metamorfosi - Greece
T +30 210 62 52 495, 30 210 62 53 927. F +30 210 62 03 018. m info@eurocert.gr

Δ/112.27/Ε02 (0)/ 25-07-2018



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203



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Sector A

General information



GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.



Licence: 4203



GENERAL NOTES

Profile weight

The weight indicated is the theoretical one and may vary according to the thickness and dimensional tolerances of the profiles (Standard EN 12020-2).

Profile dimensions

The dimensions indicated are the theoretical ones and may therefore vary according to the dimensional tolerances of extrusion (Standard EN 12020-2).

This variability, which affects all the profiles, can influence, even if minimally, the dimensions of even painting, by increasing the thickness, helps to vary the dimensions of the profiles and, in particular, reduces the space in the seats for inserting gaskets and accessories.

Cutting size

The theoretical cutting dimensions indicated in this catalogue are exact. In some cases, in practice, they will have to be rounded according to the precision and type of setting of the measurements in the machines supplied to your workshop.

Construction of windows

It is advisable in the first works or before building large quantities of windows, to make a sample in real size in order to check the assembly, the performance against atmospheric agents and the mechanical characteristics of the accessories.

Installation

It is a good idea to install the window on job site at last, in order to avoid problems that may occur on site. Have the window frame installed by specialized personnel, because installation is important for proper operation.

Measurement references

The reference of dimensions W and H shown in the catalogue corresponds to that set in the computer program for the automatic processing of estimates and cutting lists.

Schemes, sections

The diagrams, sections and wall connections shown in the catalogue do not have a limiting value but only as examples of some of the situations that are most commonly found in reality and an advisable solution.

Accessories

For a good functioning of the window, it is advisable to follow the technology and use the accessories and gaskets listed in the technical catalogue.



Use

Qalex is not liable for any use of the system other than that provided in this catalogue.

Painting

In painted profiles, the small slots, in particular those of the gaskets, can be reduced by the thickness of the paint itself. To limit the filiform corrosion process, certain rules must be followed such as: seal the cut parts (see 90° and 45 ° cut), avoid condensation stagnating inside the window frame (ventilation). The coated thermal break profiles must undergo a baking heat treatment of the paint at a temperature of 180 ° (-0 ° + 20 °) for about 20 minutes. Throughout the painting process, the profiles must be supported in such a way as to maintain the initial straightness and not undergo deformation.

Sealants

Only sealants with characteristics that comply with the requirements of the European reference standards UNI 36521998, UNI ISO 11600: 2003 must be used. UNI 9611: 1990.

Additional information

All sections, couplings, assemblies, processes and assemblies shown in the drawings and in the Qalex catalogues correspond to the current state of the art and have been defined with care and competence.

They represent a free service that makes proposals and suggestions to the manufacturer without obligation.

The manufacturer must check directly, at the time of use, if the proposals correspond and if they are applicable to the case in question since the many possibilities encountered in practice cannot all be documented in the catalogues.

- The profiles, accessories and gaskets shown in this catalogue are patented.
- All the data shown in this catalogue are indicative and do not bind Qalex.
- Qalex reserves the right to make any changes it deems appropriate at any time in order to improve its products.
- What is illustrated in this catalogue is the exclusive property of Qalex.

The system has been designed as a whole of profiles, gaskets and accessories according to the construction and application technology reported in the technical catalogue and in compliance with the standards, prescriptions and recommendations currently existing in Europe which have also determined the dimensional limits reported.

On this basis, laboratory tests were carried out and the indicated results were obtained.

Therefore, it is absolutely essential that original Qalex profiles, gaskets and accessories are used and that the construction and application procedures indicated are carried out, using original Qalex equipment.

The non-use, even partial, of the original Qalex products excludes any possibility of recourse against the same, which will only recognize the replacement of those of its products that were originally defective.



SURFACE TREATMENT AND PROTECTION

The protection and finishing of the profiles will be made by the normal surface treatments, anodic oxidation in conformity with the quality label "Qualanod" or by means of thermosetting polyester powder coating and oven cured at temperatures between 185°C and 195°C, in accordance with the quality label "Qualicoat".

Laying

It is very important to get a good functioning of the frame, meticulously take care of the verticality and leveling of the frame, and then perform the sealing mastics using neutral following the advice of the example below, also check that the openings are loaded sufficiently (shimming the 1-2 mm of glass out of the frame), so that, with the settling of the materials will not occur intolerance of operation over time.

Maintenance of aluminum surfaces

As a result of high rates of pollution now achieved in all countries, especially in large urban centers and coastal areas windswept sea, it is very important that the aluminum surfaces in contact with the atmosphere, are regularly cleaned. Our aim is to sensitize the manufacturer of windows and doors so that you can advise reflection of the client in the best way .

The cleaning product is important that it is neutral, the wrong product could spoil the different materials that make up a frame, (gaskets, sealants, marble, etc...) and cause damage that could compromise the functionality and durability of the same.

In the absence of a neutral product is best to use warm water with a non-abrasive cloth.

For proper installation, maintenance and cleaning of windows, please also refer to the instructions given on the following technical notes UNICMI.

UX 42 guide to installation of windows.

UX 10 surface cleaning of windows and curtain walls.

Anodizing

Anodic oxidation must possess the properties required by ISO 7599 (Anodizing of aluminum and its alloys. General specifications for the anodic oxide layer) and will be performed on the profiles that have been pretreated on the surface by mechanical brushing or chemical satin finishing.

The control of the thickness of the anodic oxide will be carried out according to the ISO 2360 standard (Non-conducting coatings on non-magnetic base metals. Measurement of the thickness of coatings - induced current method).

The quality of the fixing of the anodic oxide layer will be evaluated according to the ISO 3210 standard (Anodization of aluminum and its alloys. Evaluation of the quality of the fixing of the anodic oxide layer, by measuring the weight loss after immersion in phosphochromic solution).

The treatments must be guaranteed with the QUALANOD quality mark and be performed by an ISO 9001:2000 certified company.

The type of color and thickness of the anodic oxide will be chosen by the customer, oxide thickness class 10, 15, 20 microns.

Fixing can be done hot or cold.



Painting

The painting must possess the properties required by the directives of the QUALICOAT quality mark and be of the powder type in the color chosen by the D.L. RAL color chart.

Before painting, the surface of the profiles must be treated with the following pre-treatment operations by means of a cycle comprising:

- acid degreasing at 50°C;
- double washing with demineralized water alkaline pickling at 50°C;
- double washing with demineralized water;
- acid deoxidation;
- double washing with demineralized water;
- chromating at 30°C;
- washing with demineralized water;
- specific washing with demineralized water;
- drying;
- painting with polyester powders applied electrostatically polymerization in an oven at a temperature of 180 DC - 200 DC.

To guarantee the durability and resistance to atmospheric agents of the paint film, checks must be carried out during the painting cycle to verify its quality. Among these the most important controls are:

- Control of the polymerization temperature;
- Adherence check, according to EN ISO 2409 (grid cut test);
- Bending resistance test, according to EN ISO 1519 (bending test with cylindrical mandrel);
- Control of resistance to drawing, according to EN ISO 1520 (drawing test);
- Impact resistance test, according to ASTM D 2794 (impact resistance test);
- Gloss degree control, according to ISO 2813 (measurement of gloss of non-metallic paints at 20°, 60°, 85°);
- Hardness control, according to ISO 2815 (Buchholz hardness);
- Evaluation of wet adhesion with Machu Test (UNI 9983)

The painting must be carried out by applying the following documents in full:

“Directives of the QUALICOAT quality mark of painted aluminum (with liquid or powder products) used in architecture”.

The color will be chosen by the client based on samples provided by the supplier of the products.

The surface treatment must be performed by plants that have received the certification of QUALANOD quality marks for anodic oxidation and QUALICOAT for painting and be carried out by an ISO 9001 certified company.

The powders used must be QUALICOAT approved and be produced by ISO 9001 certified companies.

Surface finishing checks can be carried out in compliance with the provisions of the QUALICOAT and QUALANOD brand directives.



TECHNICAL DESCRIPTION FOR SPECIFICATIONS

Doors and windows casement system constructed with EN AW 6063 extruded aluminium alloy profiles with the physical state of delivery T5 (some special sections T6).

The fixed frame will have a total depth of:

- 1.BEAR.34 thickness 70mm;
- 2.BEAR.24 thickness 60mm;
- 3.BEAR.16 thickness 52mm;
- 4.BEAR.C thickness 52mm.

The mobile frame will have a total depth:

- 5.BEAR.34 thickness 78mm;
- 6.BEAR.24 thickness 68mm;
- 7.BEAR.16 thickness 60mm;
- 8.BEAR.C thickness 60mm.

Assembly frames must be connected 45° and fixing by crimping corner joint with structural glue.

The thermal break must be obtained by inserting strips in polyamide reinforced with fibre glass (PA 6,6 GF 25), with depth:

- 9.BEAR.34 thickness 34mm;
- 10.BEAR.24 thickness 24mm;
- 11.BEAR.16 thickness 16mm.

Their locking will be mechanical with rolling from the outside, after knurling the aluminium seats to avoid sliding of the profile itself, compliant with the technical guide (UEQTC) for windows with metal profiles with improved thermal performance.

The cut of the corners of the fixed frame and of the mobile frame must be sealed with suitable material to guarantee the seal.

Ventilation slots must be made in the mobile frame.

The tightness will be ensured by EPDM central gasket related window open in, regarding door and window open out tightness will be ensured by double EPDM gasket.

The accessories and gaskets must be the original ones designed and produced for the system.

The doors and windows must have performances of air permeability, water tightness and resistance to wind loads in accordance with the standards EN 12207 - 12208 - 12210 and EN 1026 - 1027 - 12211.



TECHNICAL DESCRIPTION OF THE SYSTEM

Profiles:

Extruded aluminium alloy profiles EN AW 6063

Delivery condition:

T5 and T6

Dimensional tolerances:

EN 12020/2

Basic system dimensions

Fixed frames: 52/60/70mm

Openable frames: 60/70/80mm

Glass bead height: 22mm

Glass range: 5mm to 60mm

Type of profiles and frames

Windows:

- 1.Single panel open in;
- 2.Bottom hung;
- 3.Top hung;
- 4.Turn and tilt;
- 5.Double panel;
- 6.Turn and turn and tilt;
- 7.Single panel open out;
- 8.Double panel open out;

Door:

- 9.Single panel open in;
- 10.Double panel open in;
- 11.Single panel open out;
- 12.Double panel open out;
- 13.Swing door;
- 14.Half swing door.

Accessories

Suitable euro groove dimensions.

Architectural style

Modern lines with the visible surfaces of aluminium are reduced to increase the illuminating area.

Sector B

Wind charts



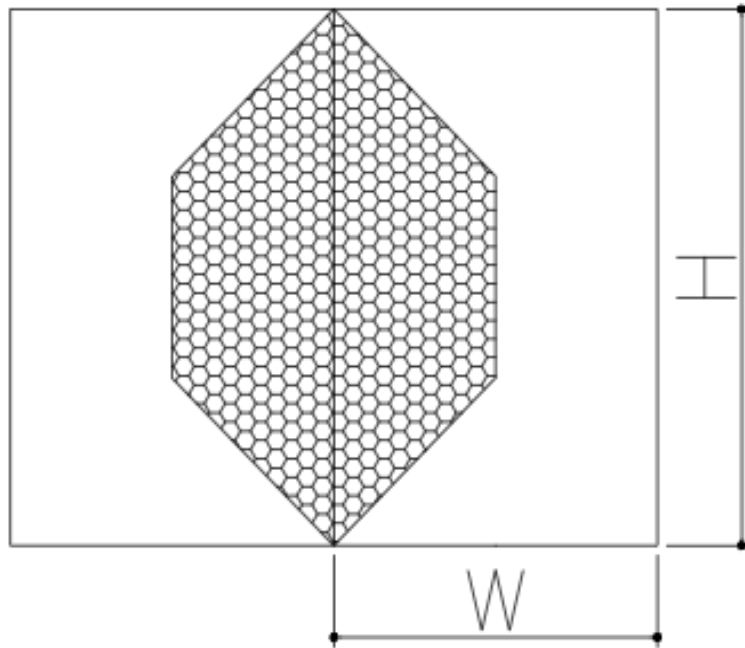
WIND CHART

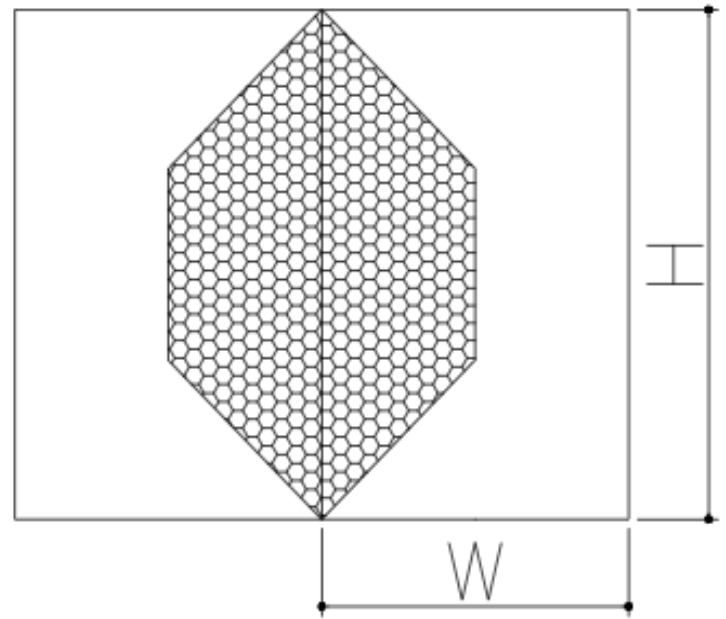
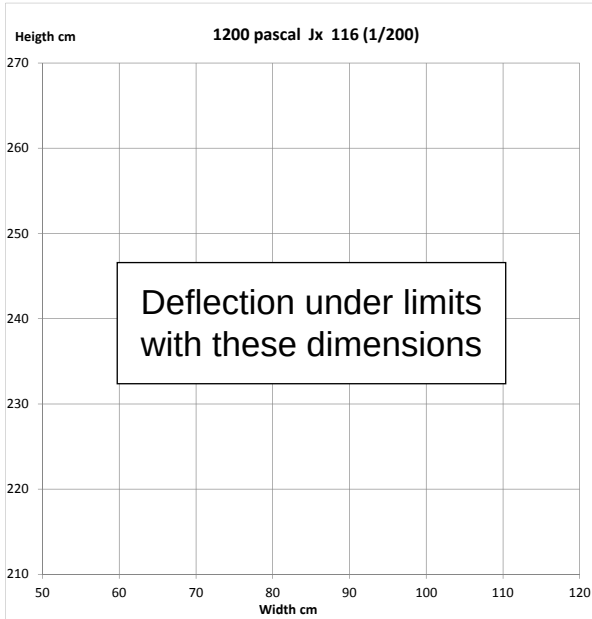
The sizing resulting from the graph is indicative only.

The designer in determining the maximum dimensions of the frames, will have to consider and evaluate, besides the dimensions and the moment of inertia of the profiles, also the applicative and meteorological characteristics such as the height from the ground, the exposure to the rain and the speed of winds in the area. For these data we advise to consult and follow the "UNCSAAL" Recommendations" elaborated on the basis of the UNI, UNI-EN and UNI-CNR standards in existence.

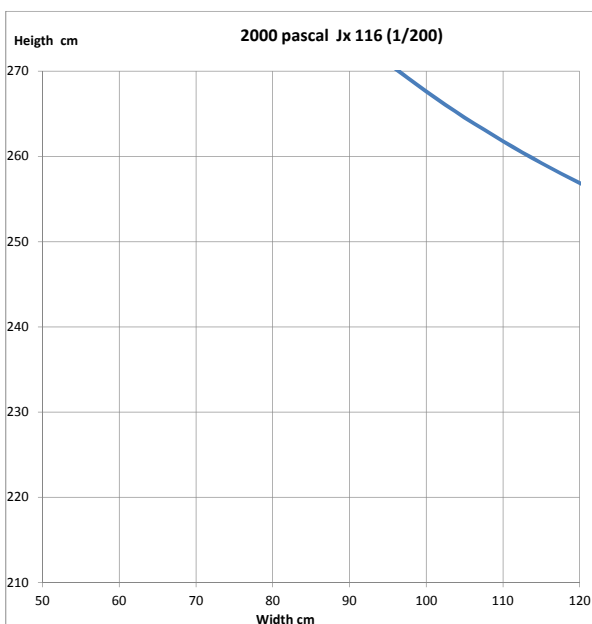
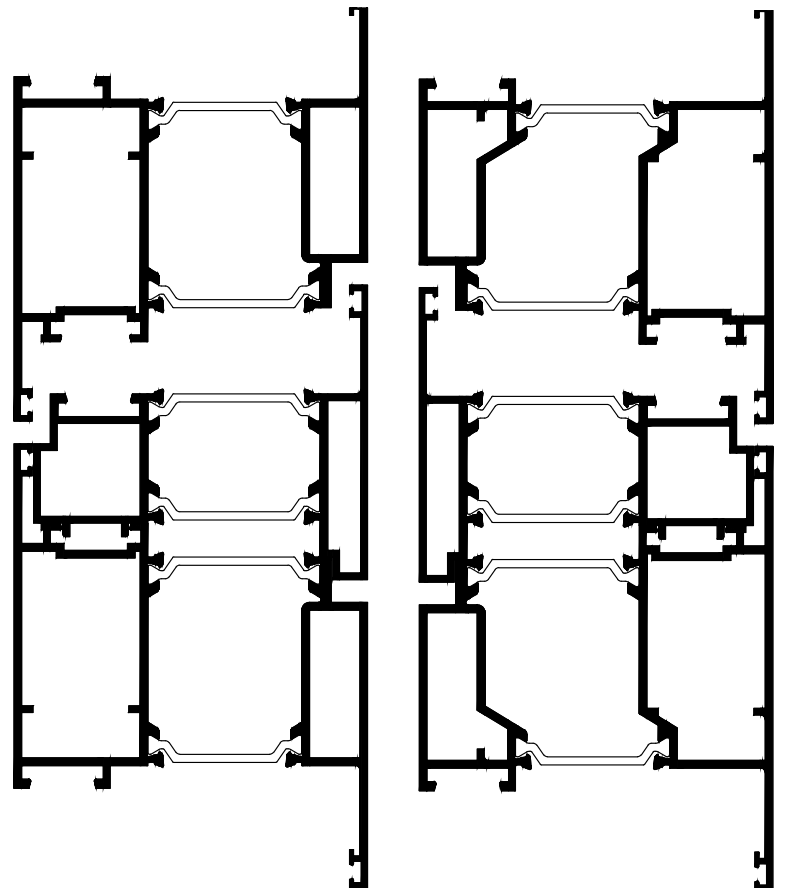
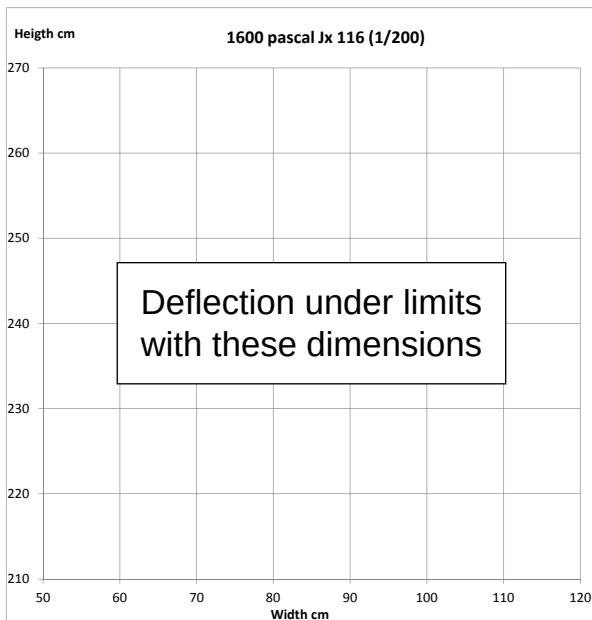
The window is considered to have 2 equal sash.

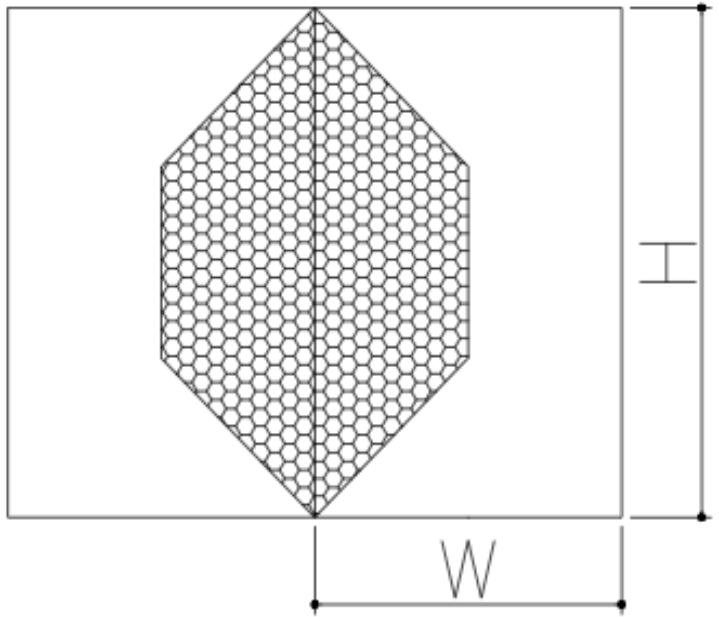
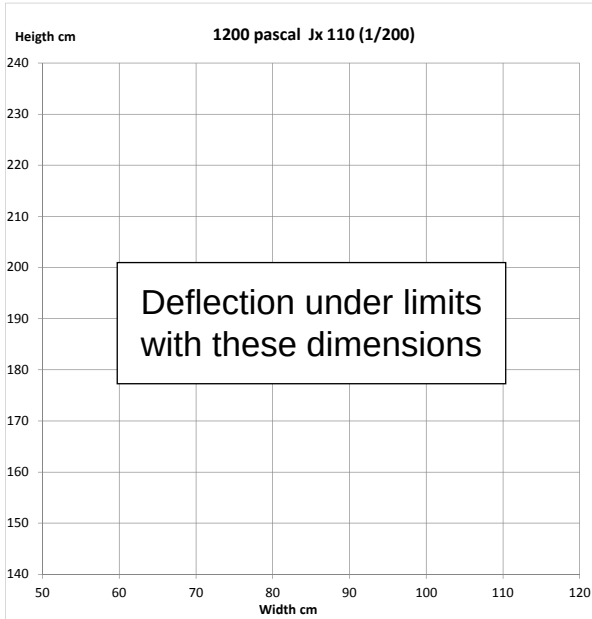
The curves are calculated on the basis of the elastic deformation of 1/200 of the height of the window.



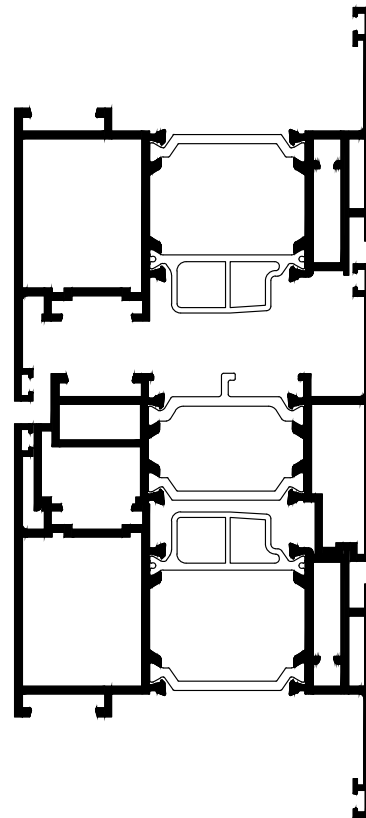
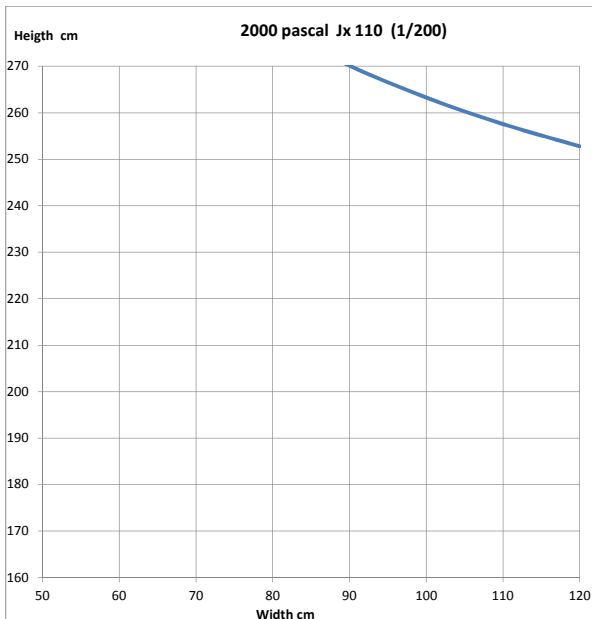
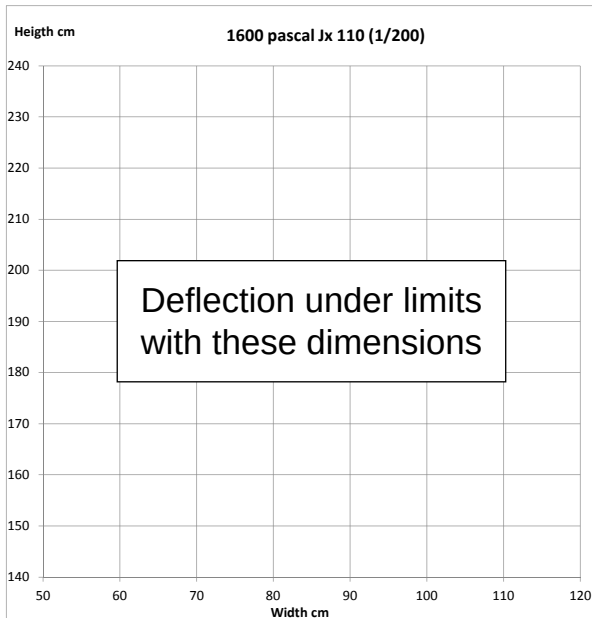


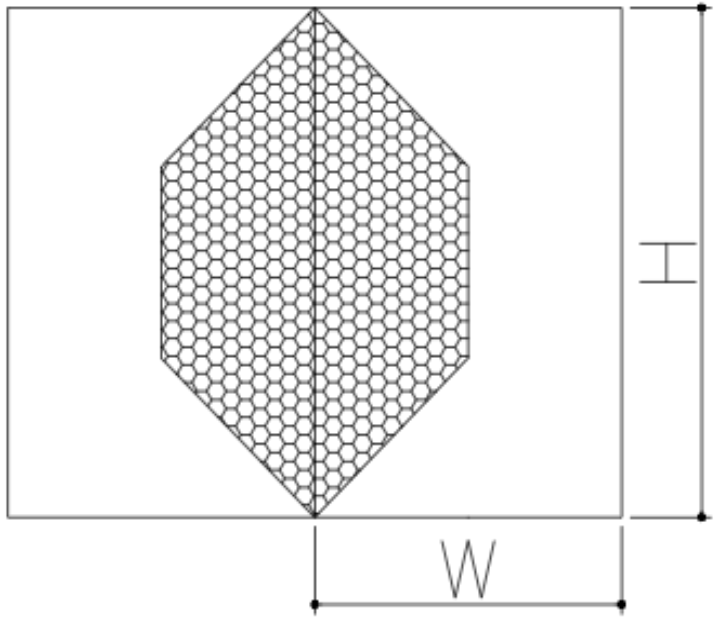
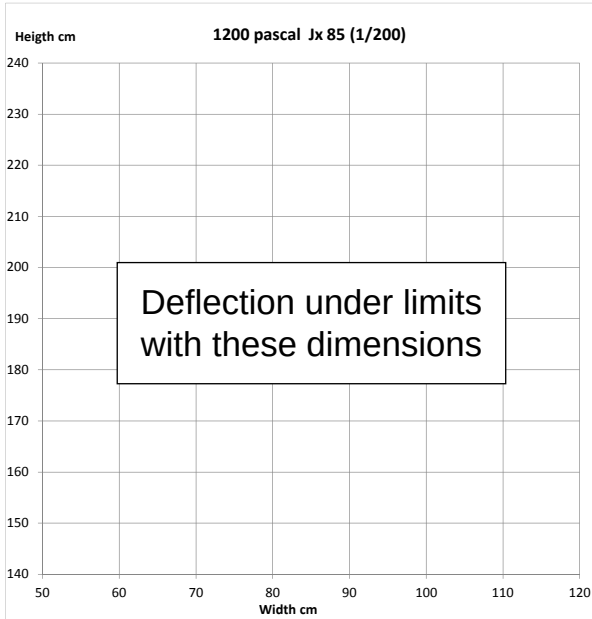
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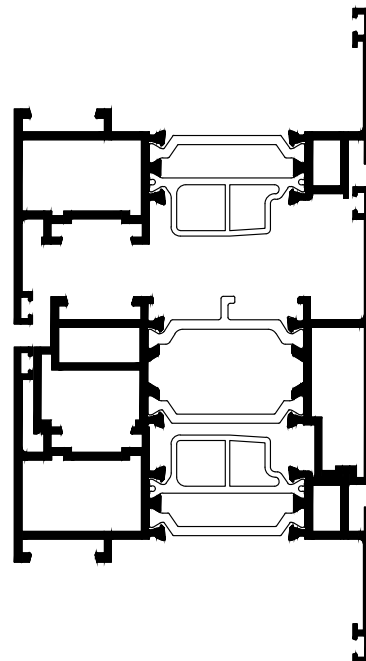
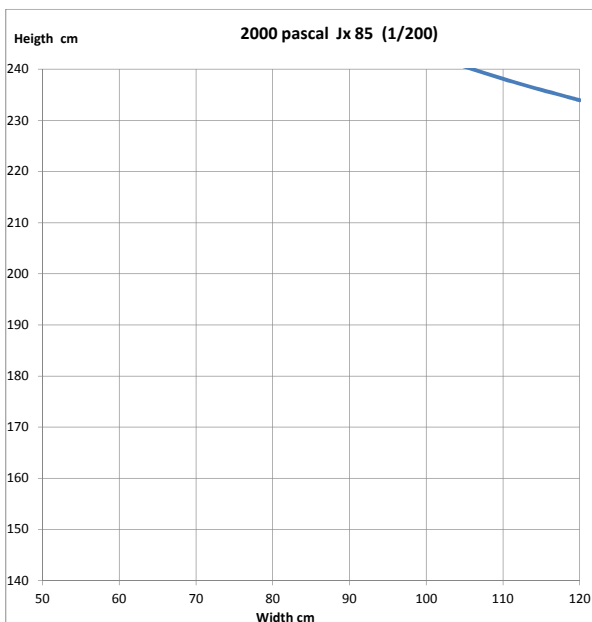
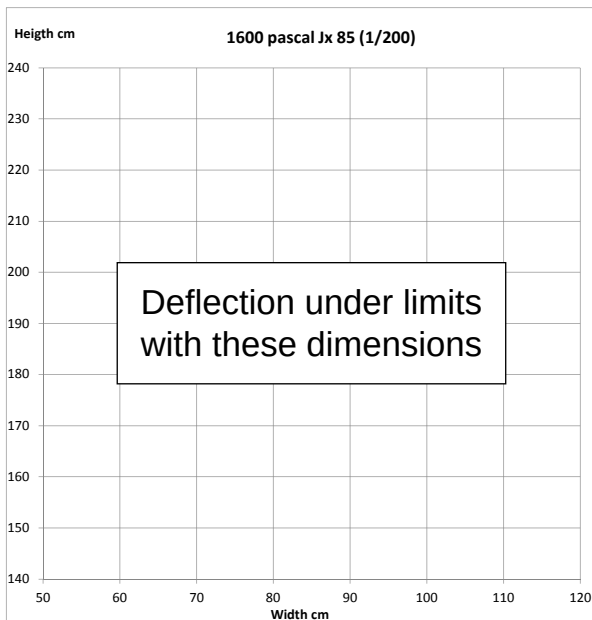


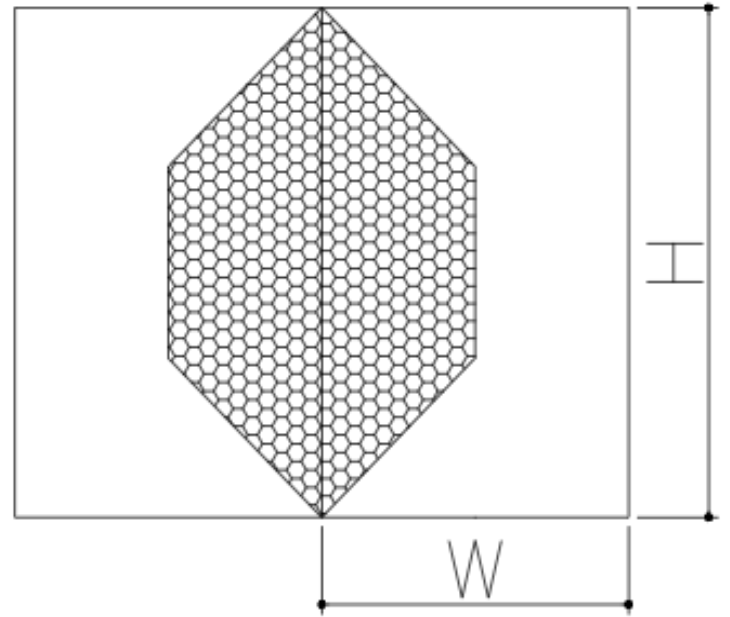
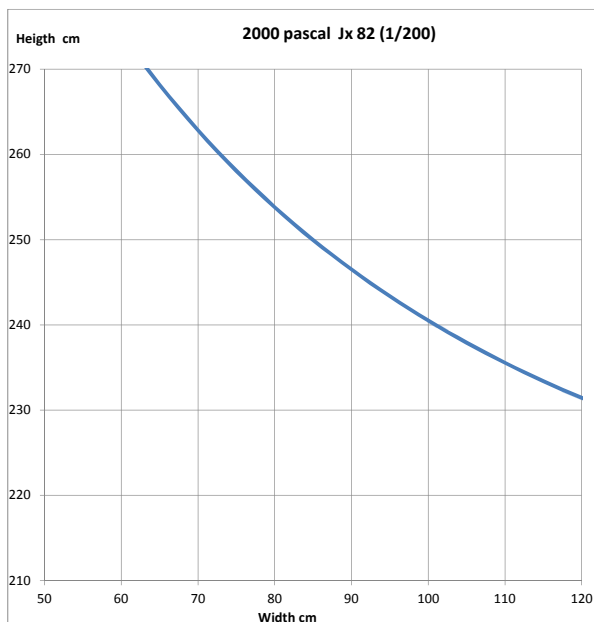
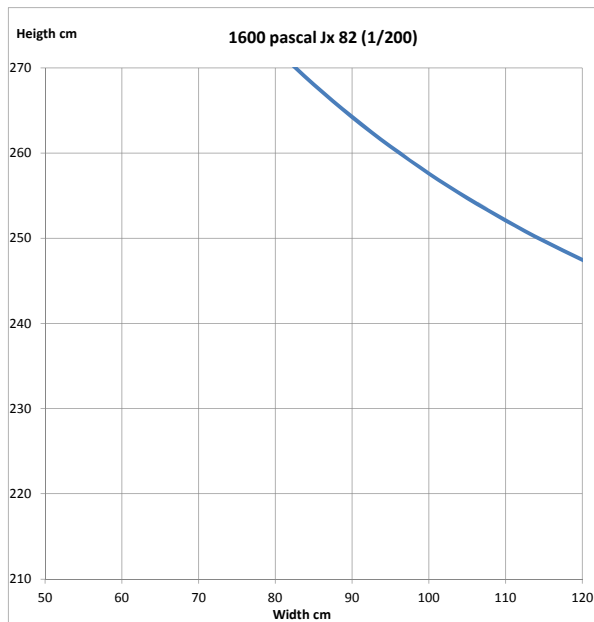
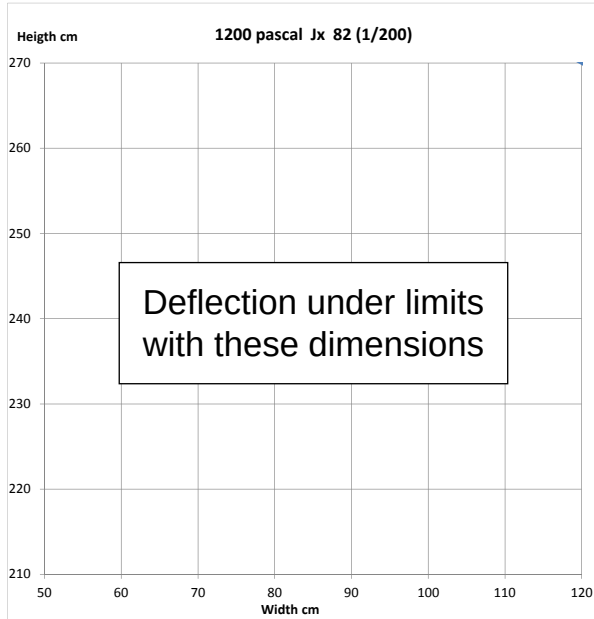
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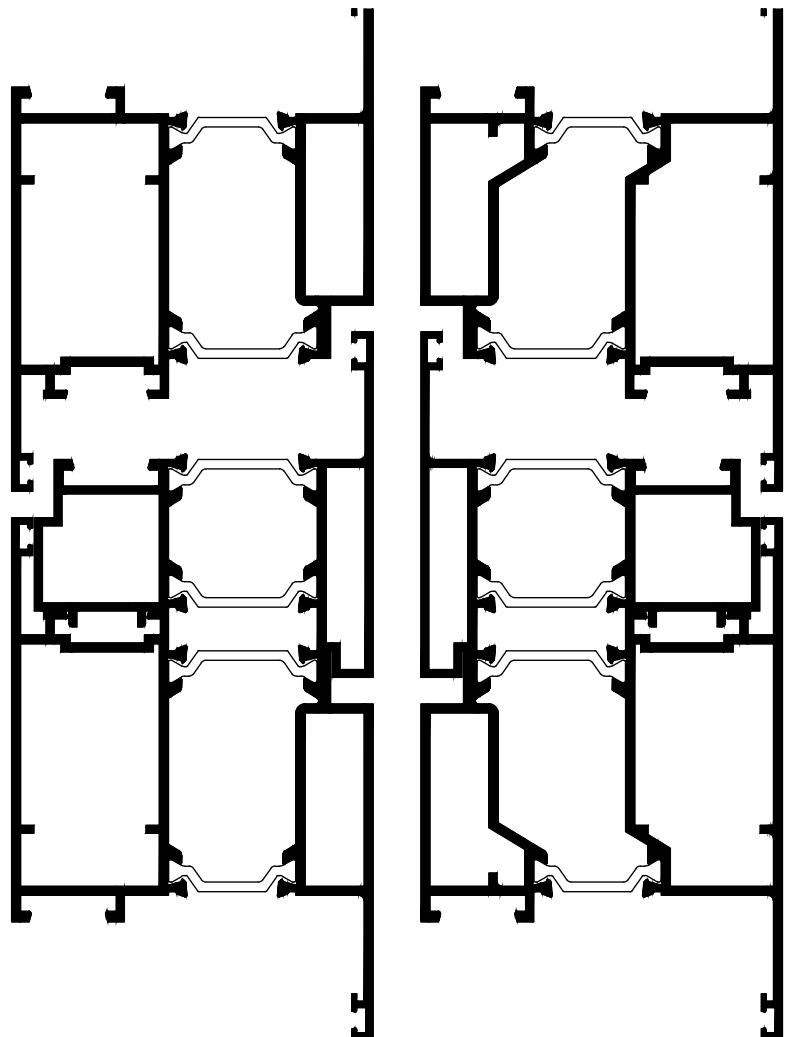


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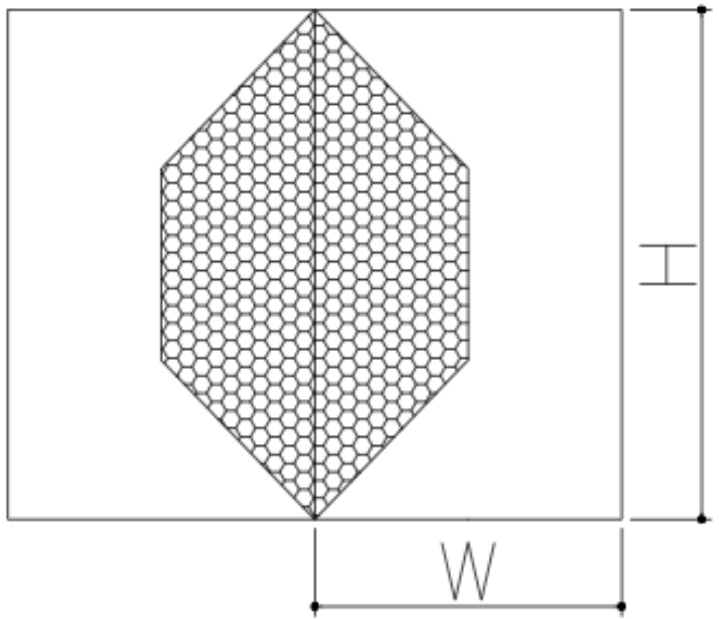
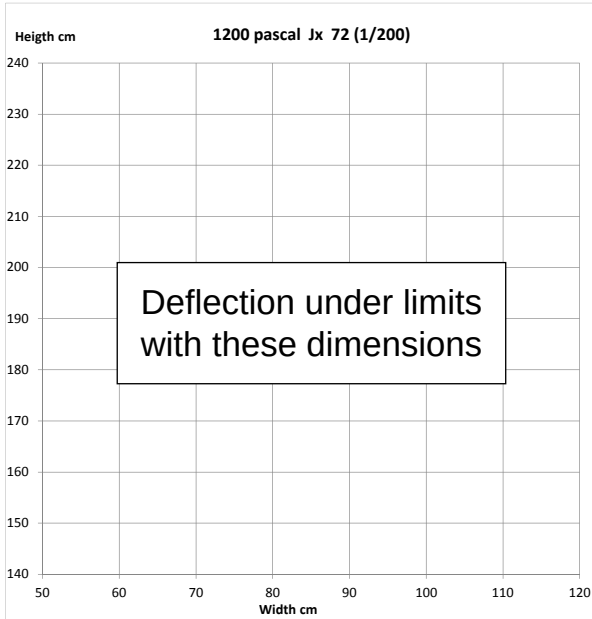




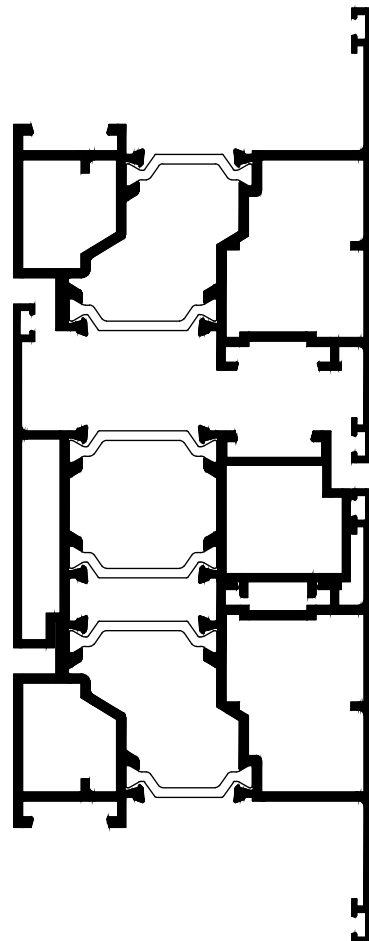
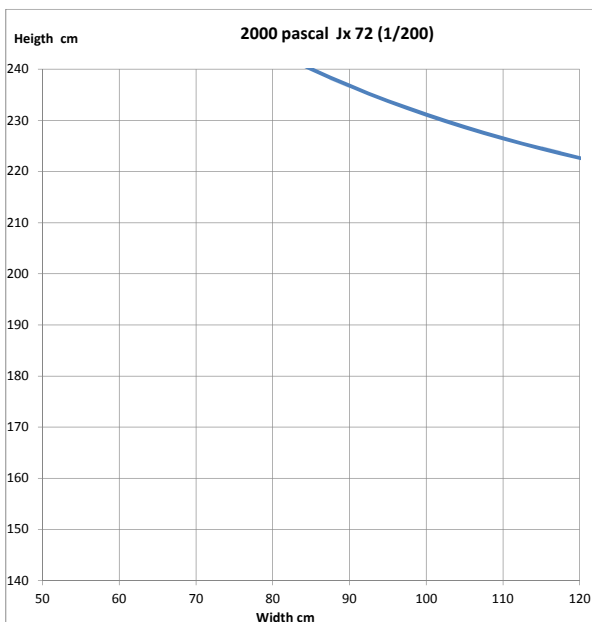
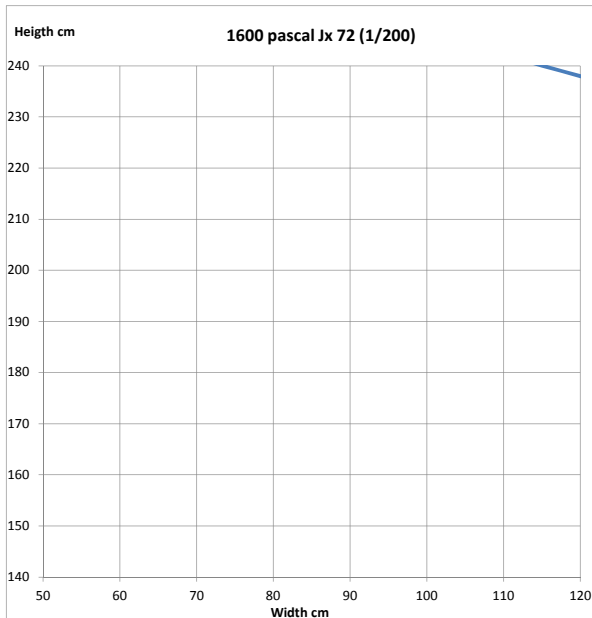
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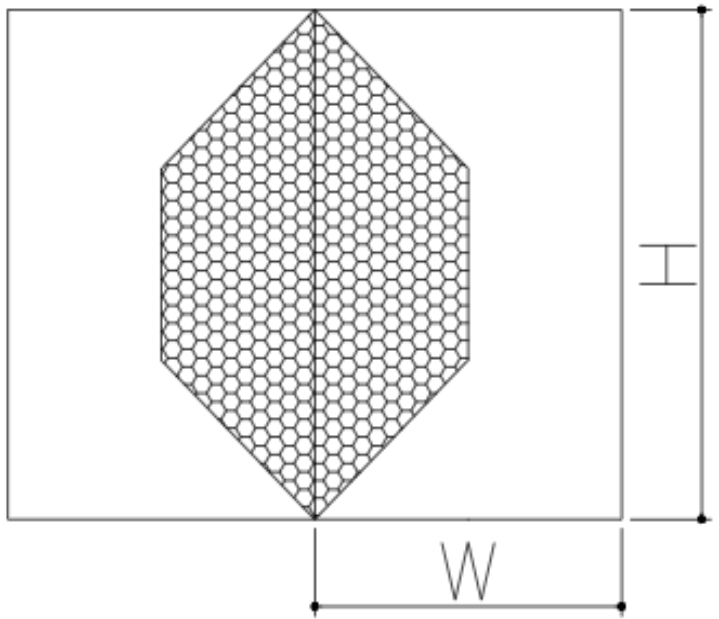
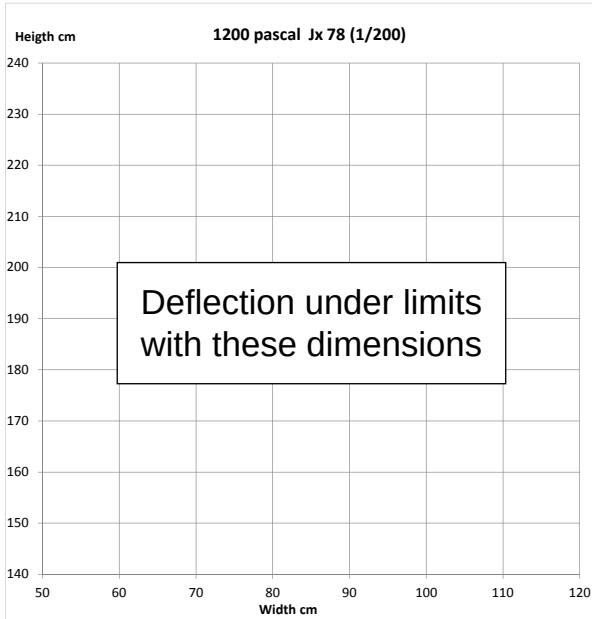


SECTOR B.5

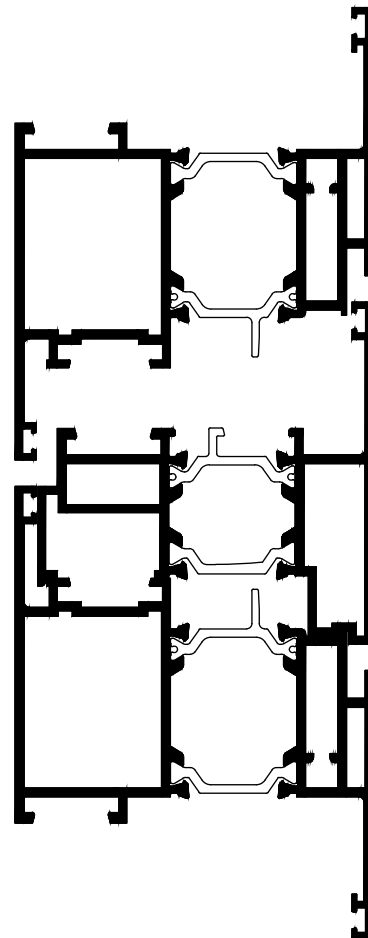
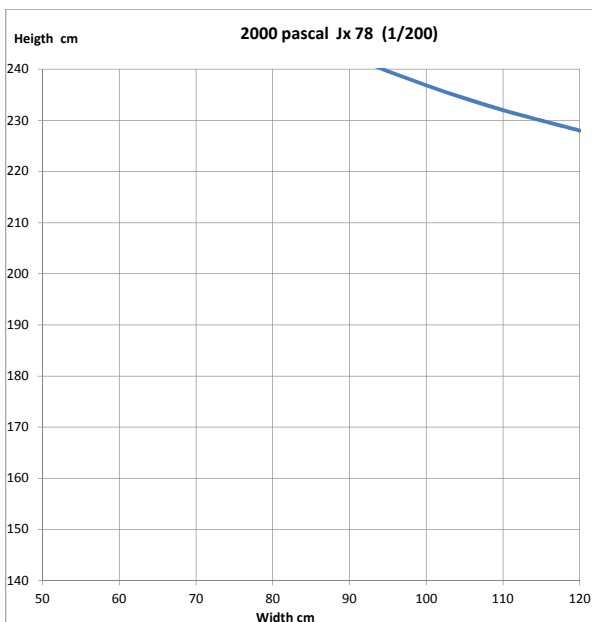
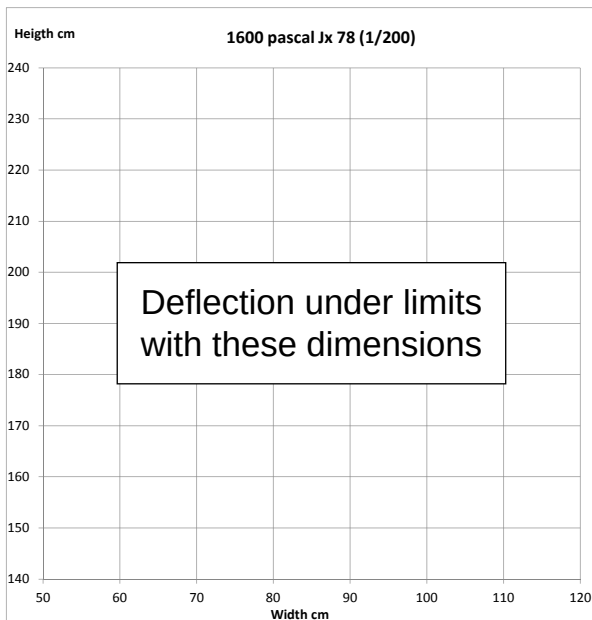


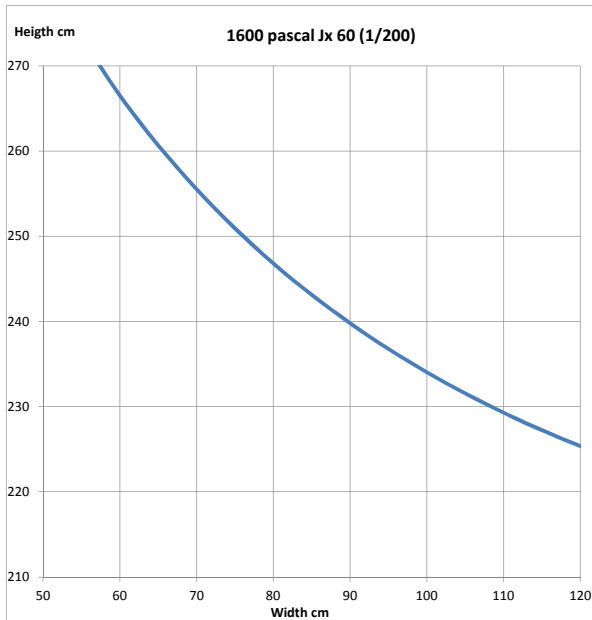
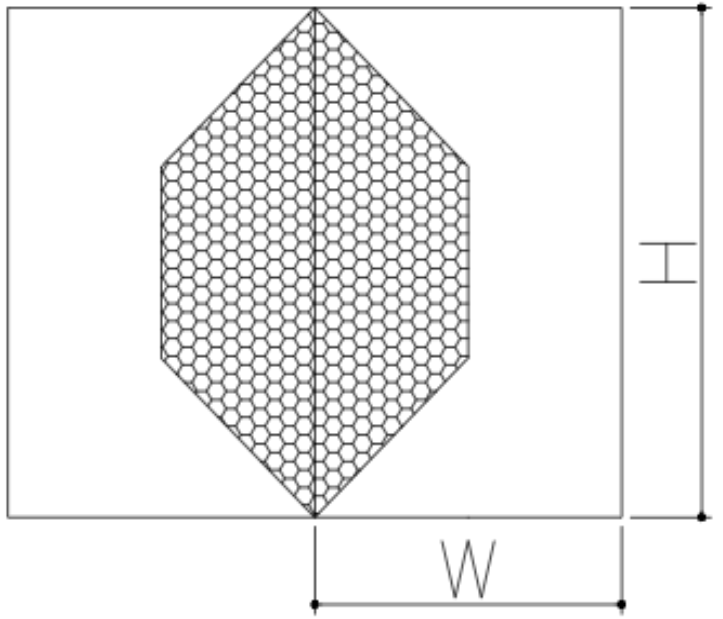
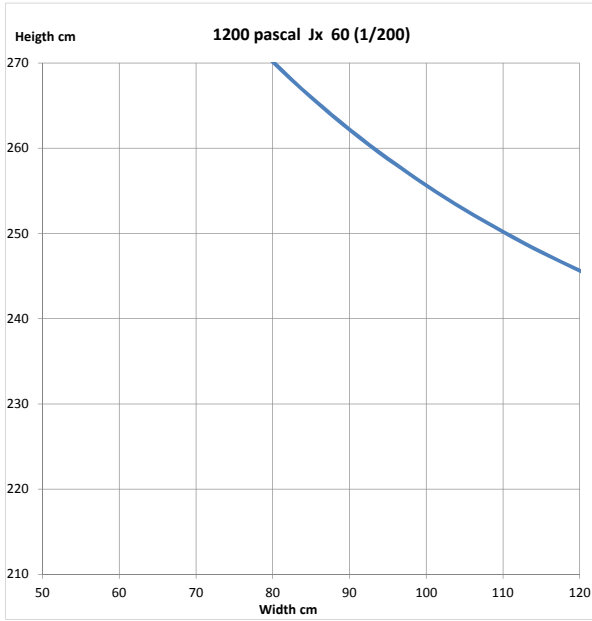
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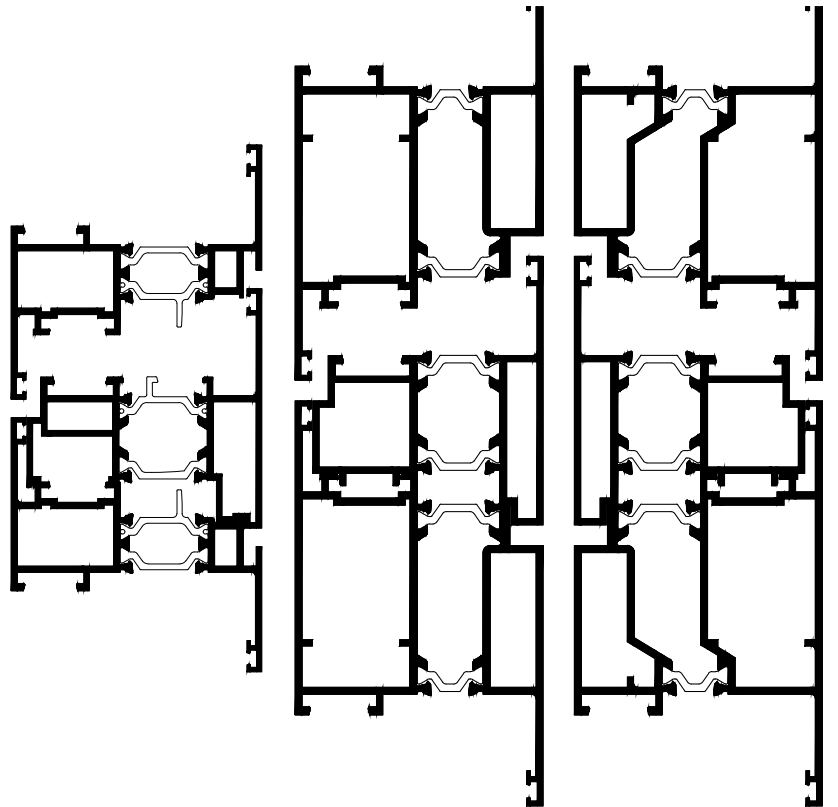
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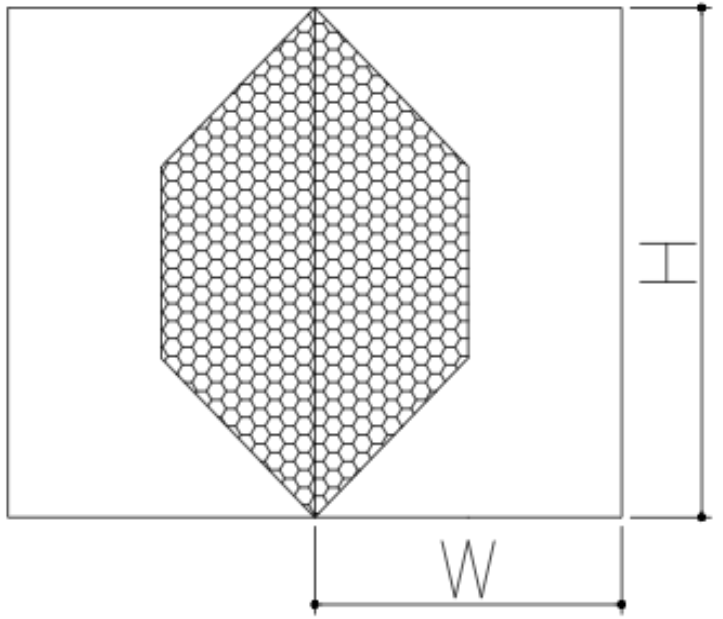
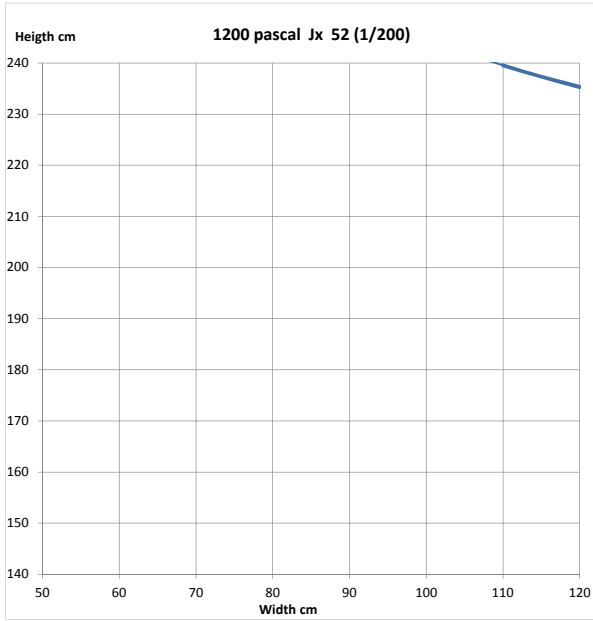




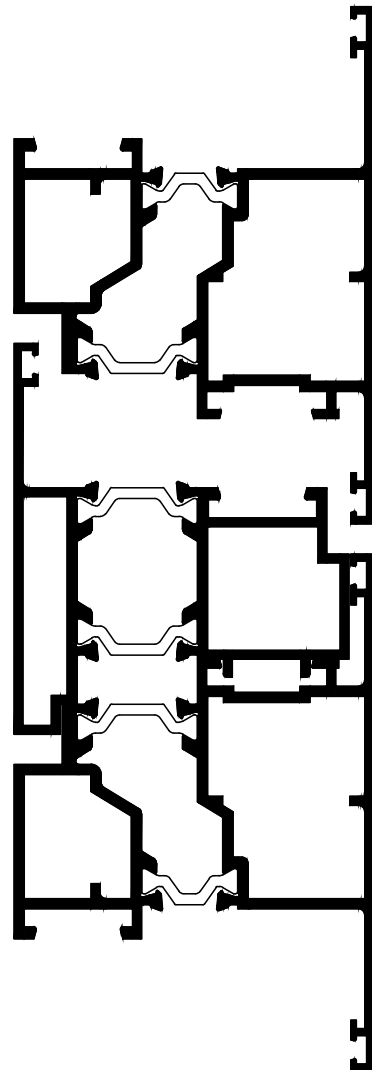
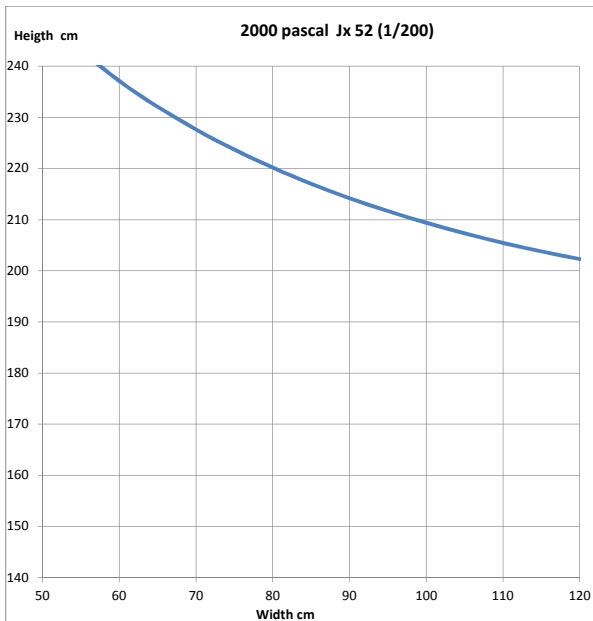
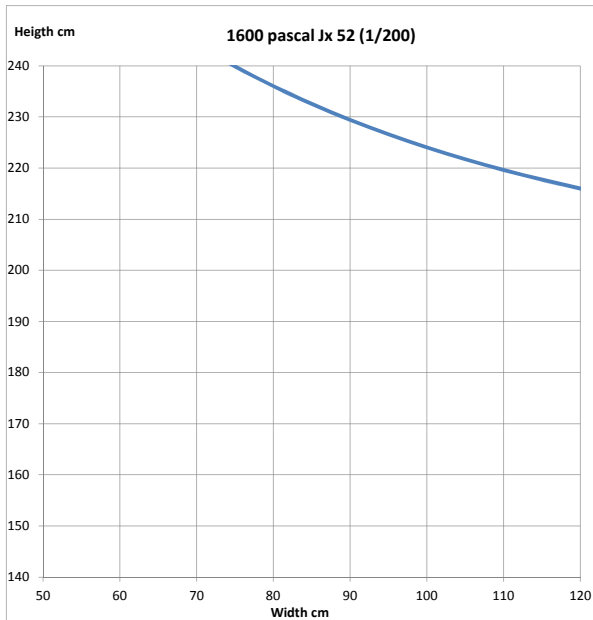
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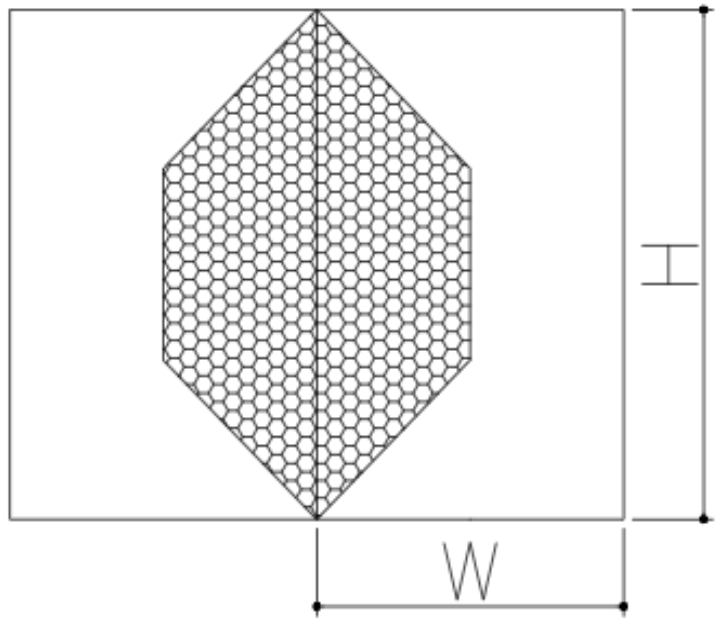
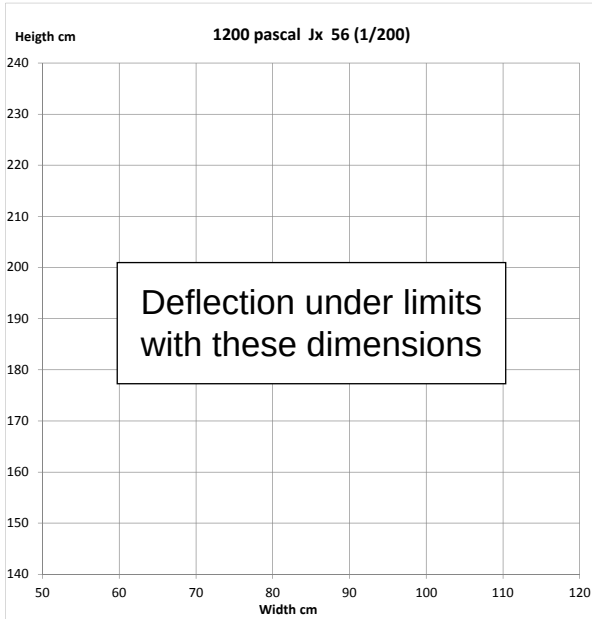
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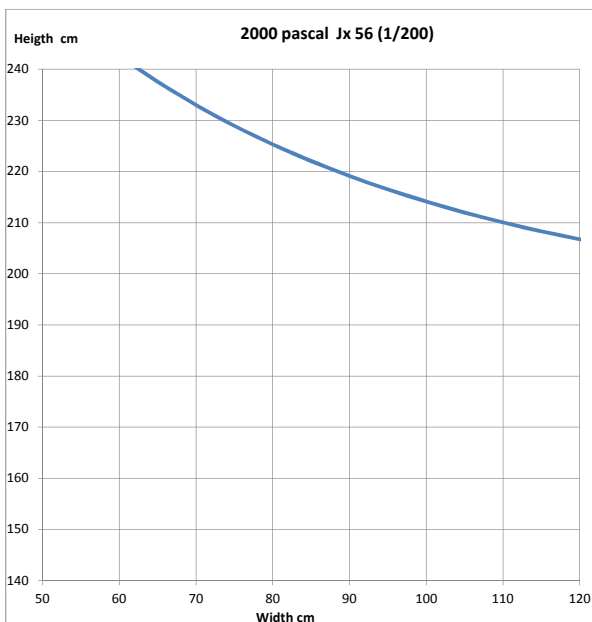
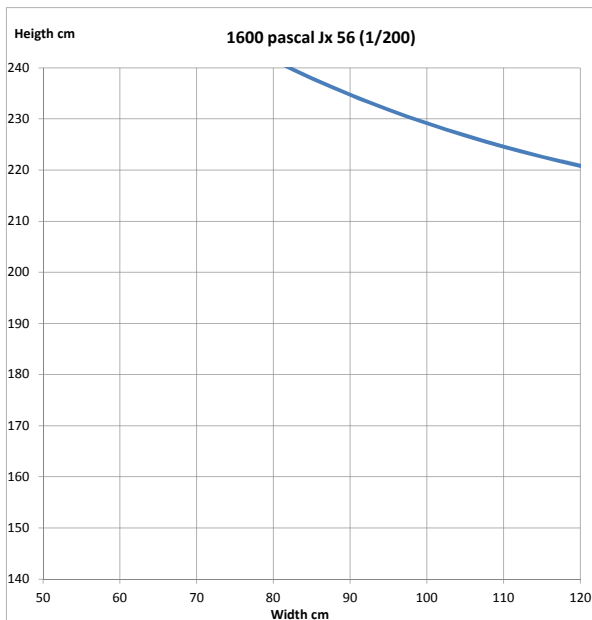
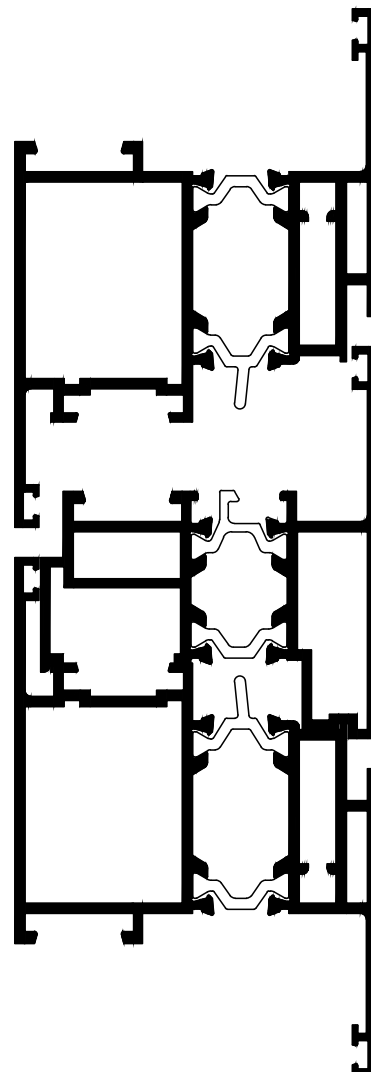


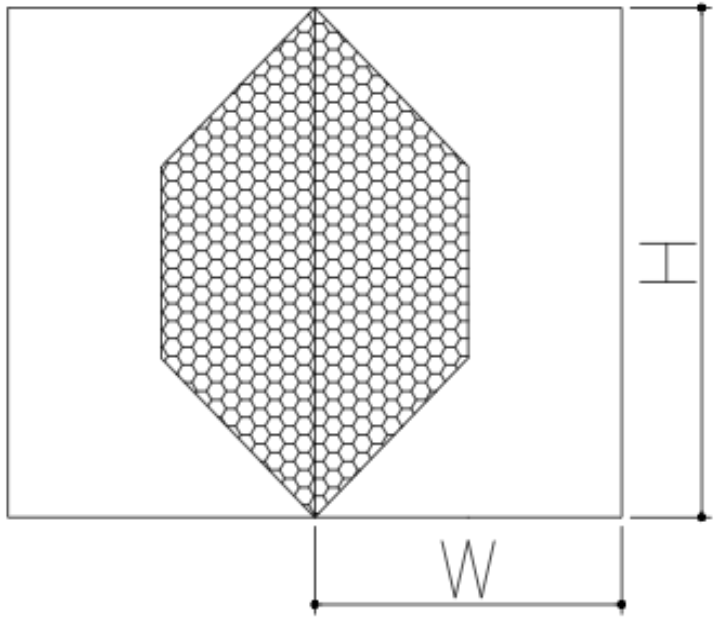
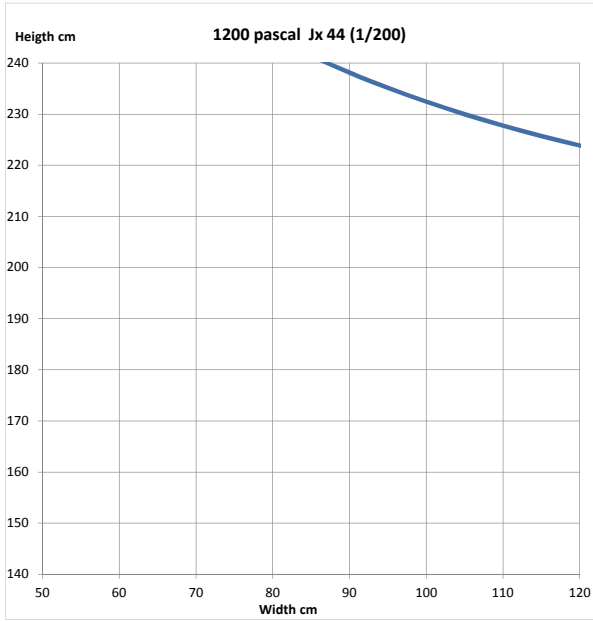
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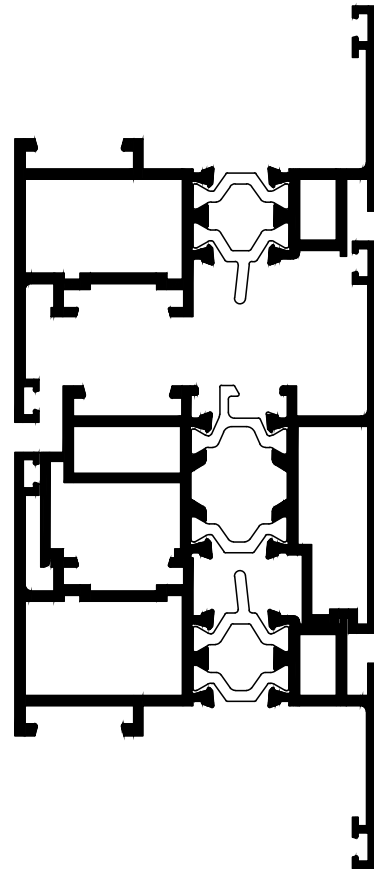
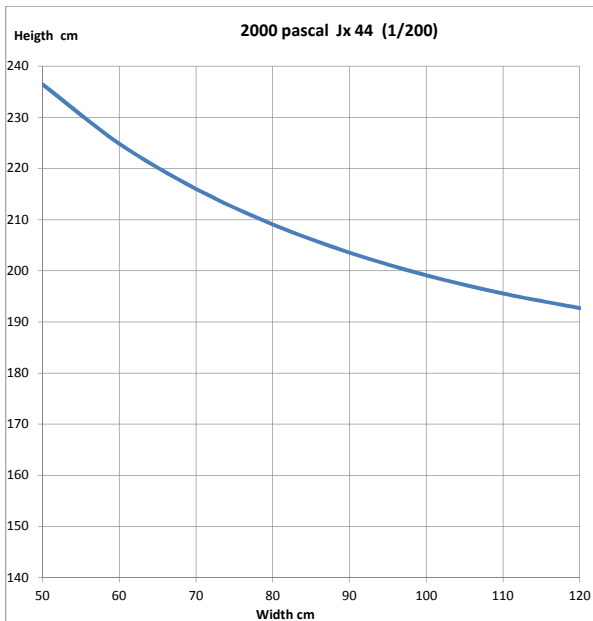
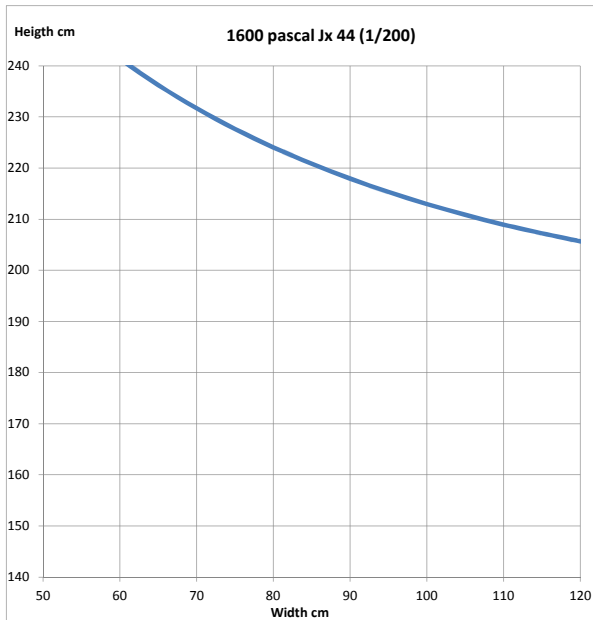


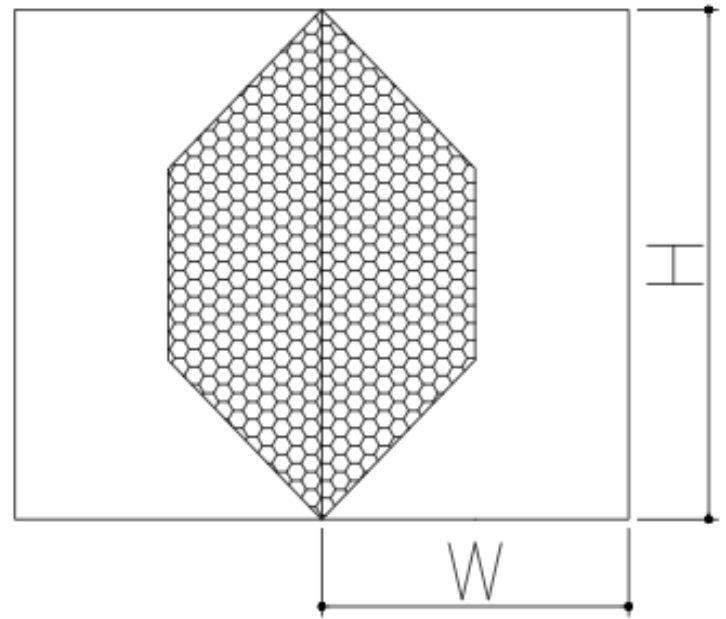
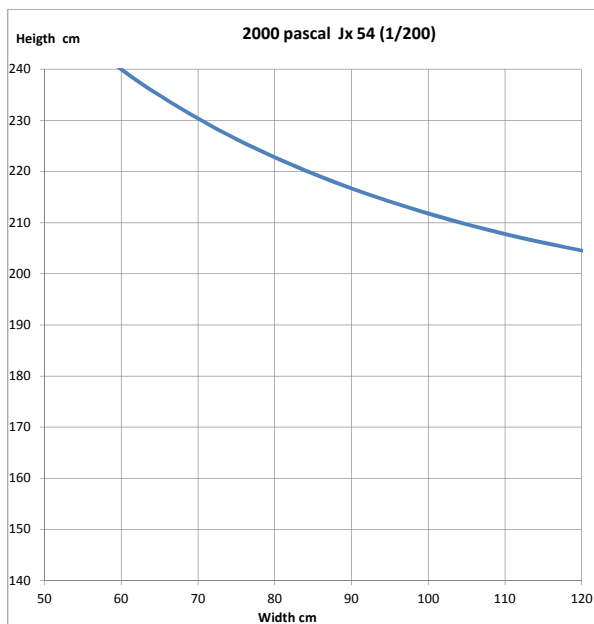
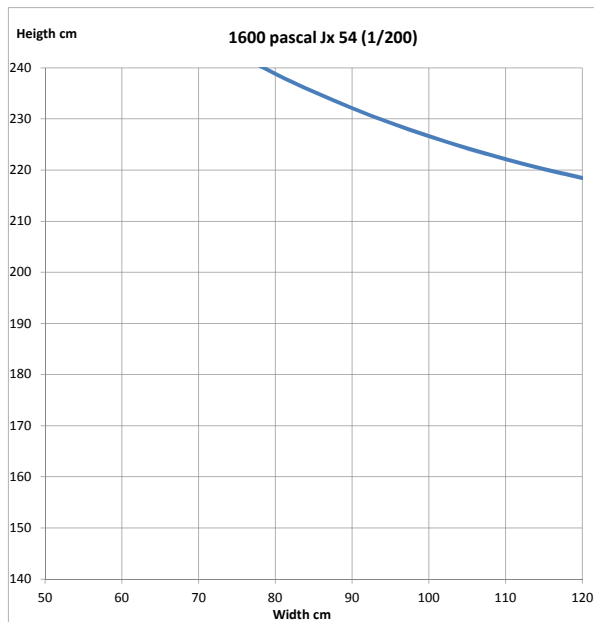
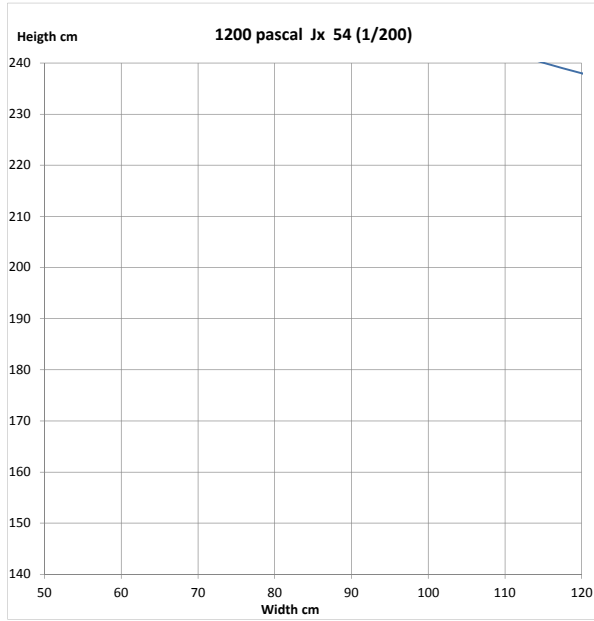
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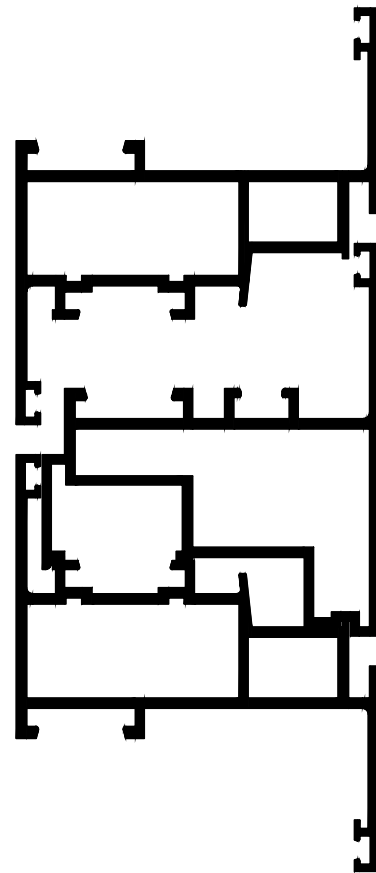


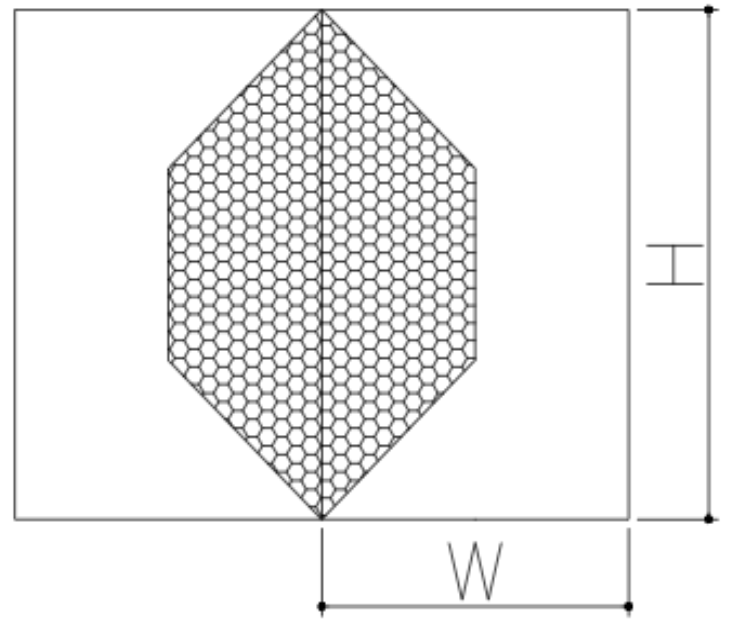
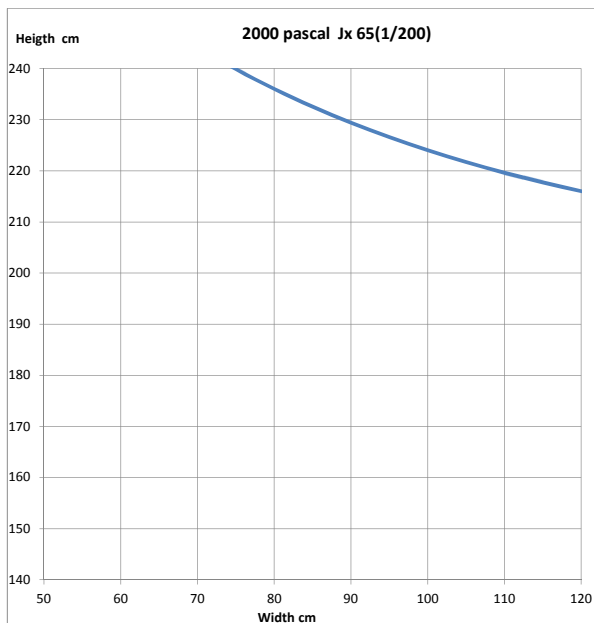
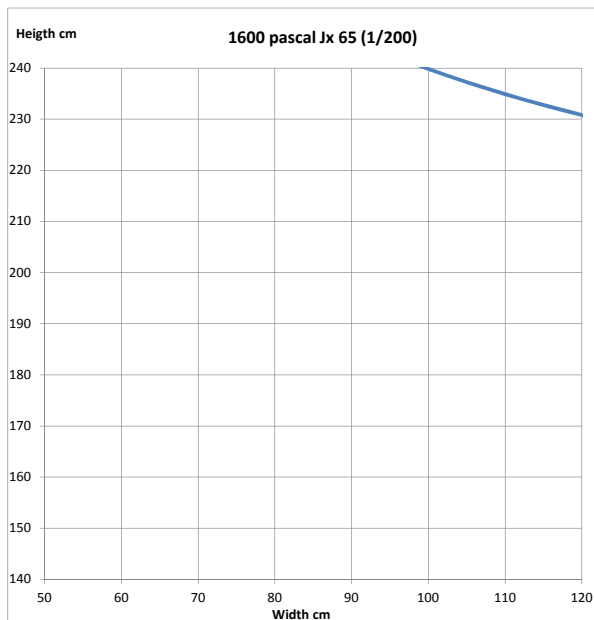
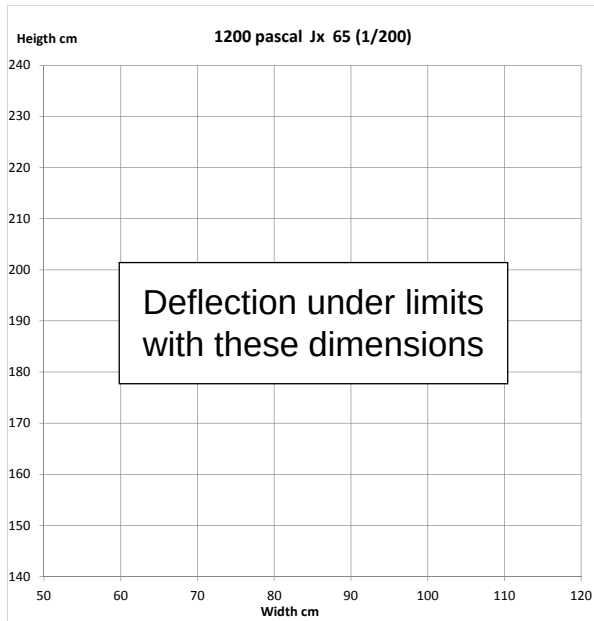
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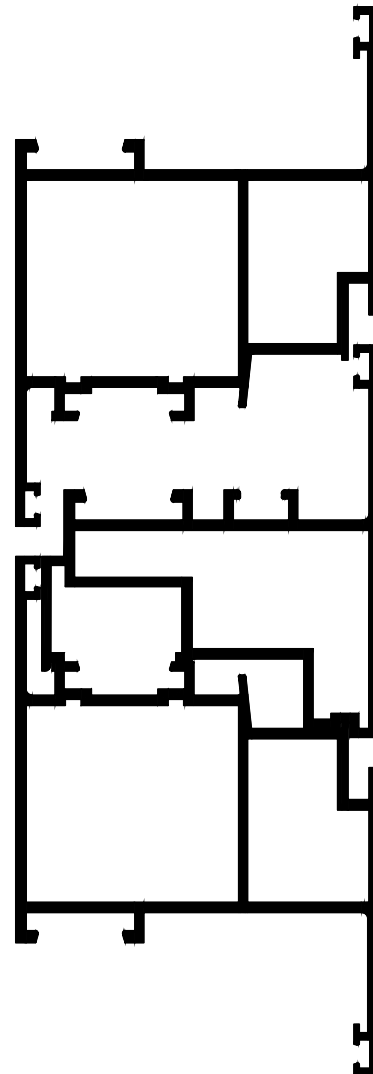


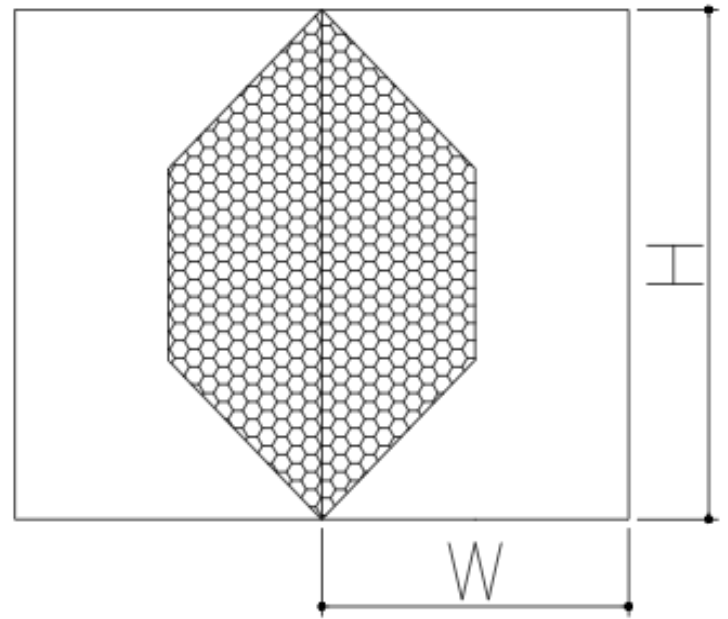
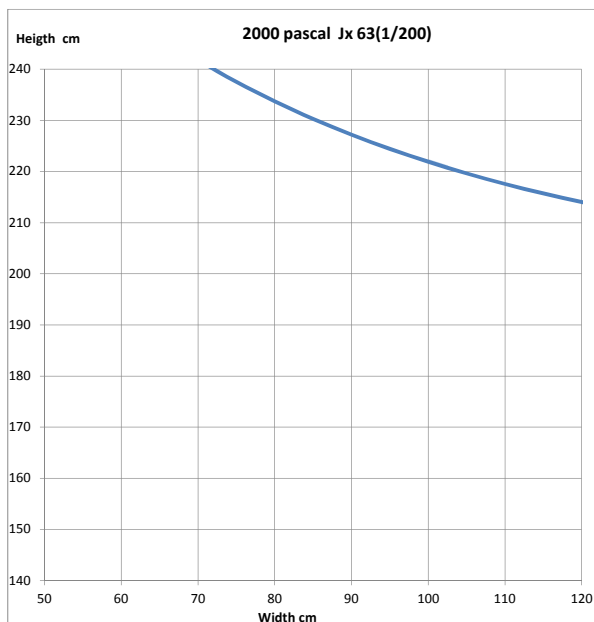
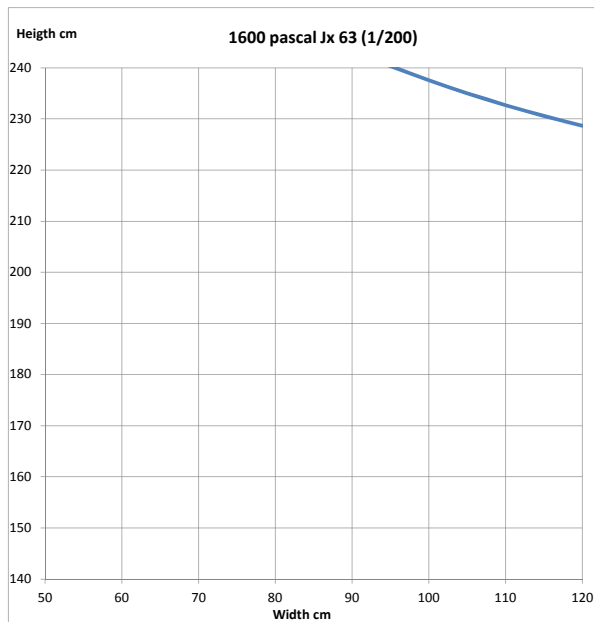
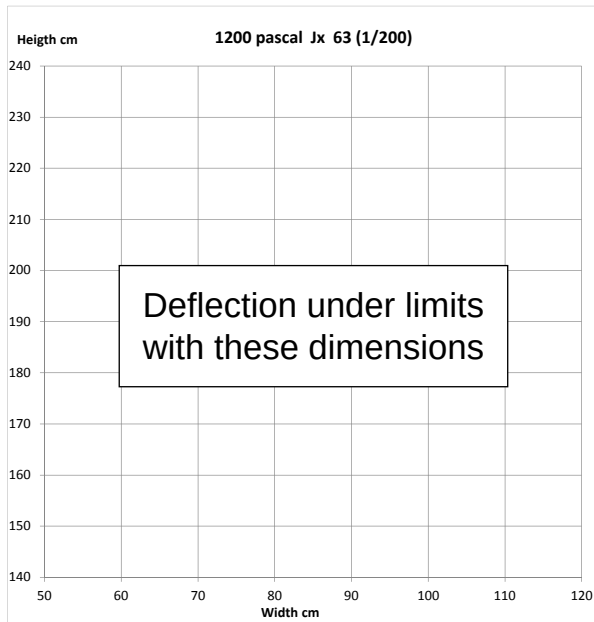
BEAR.C



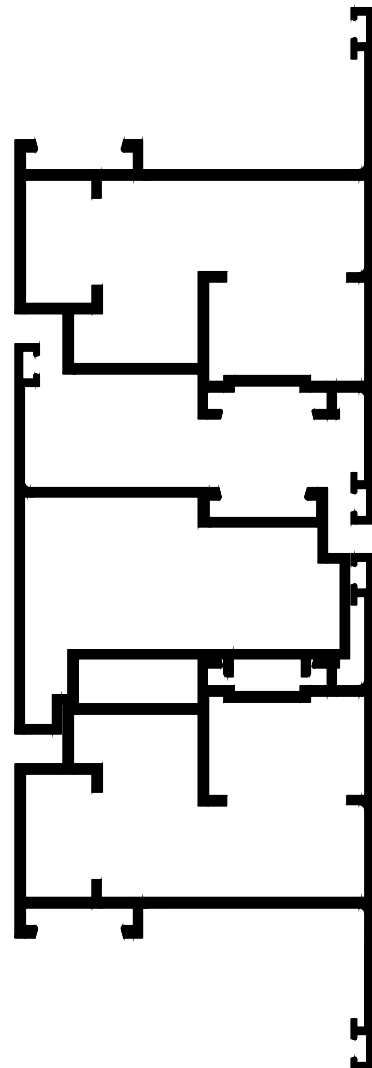


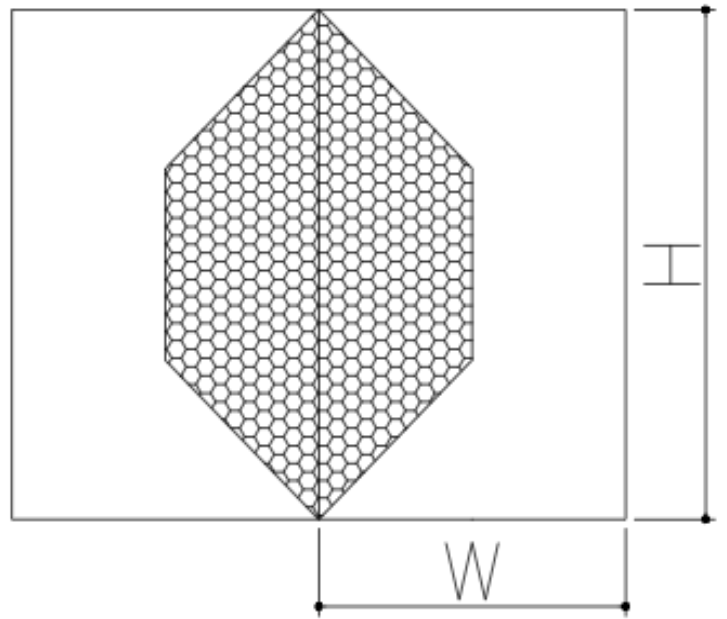
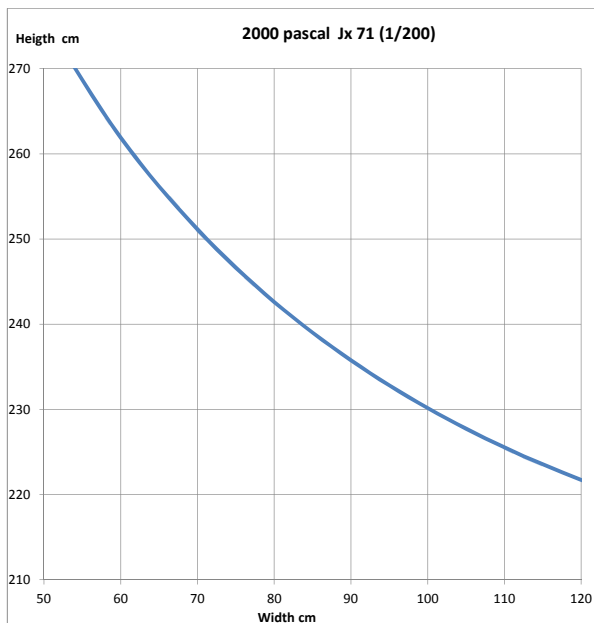
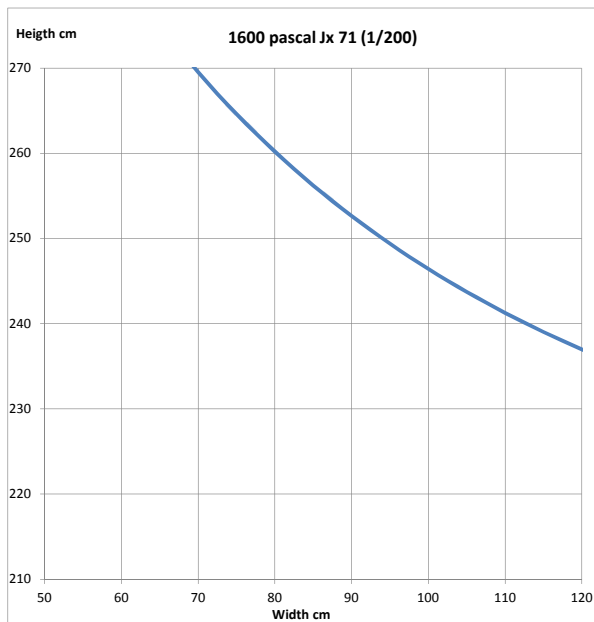
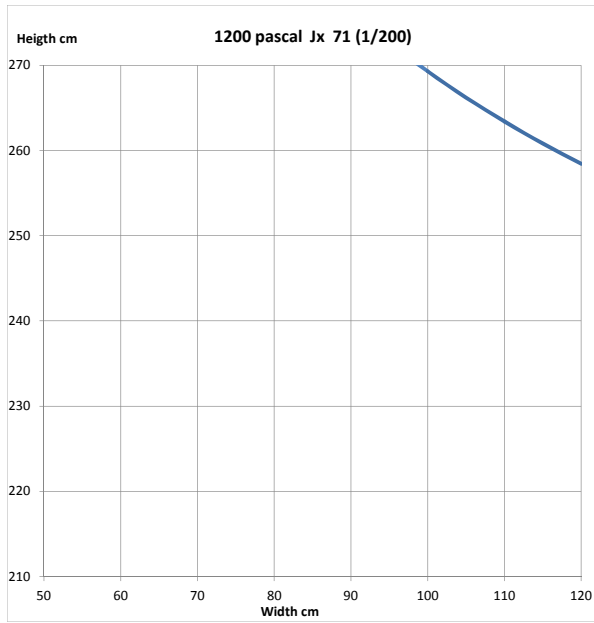
BEAR.C



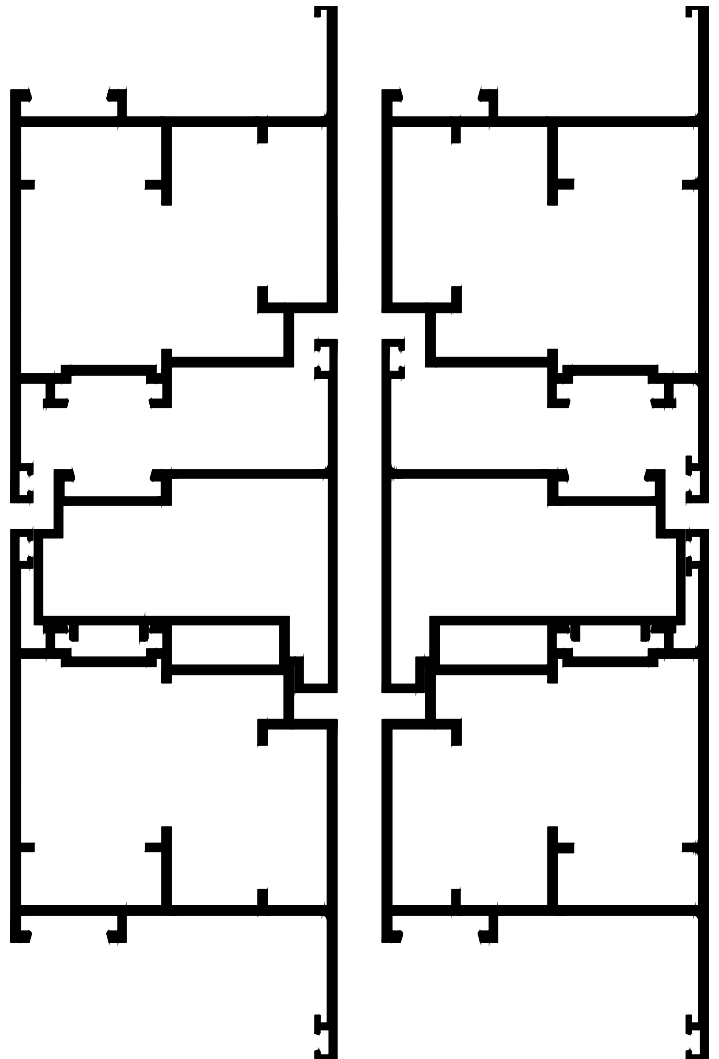


BEAR.C





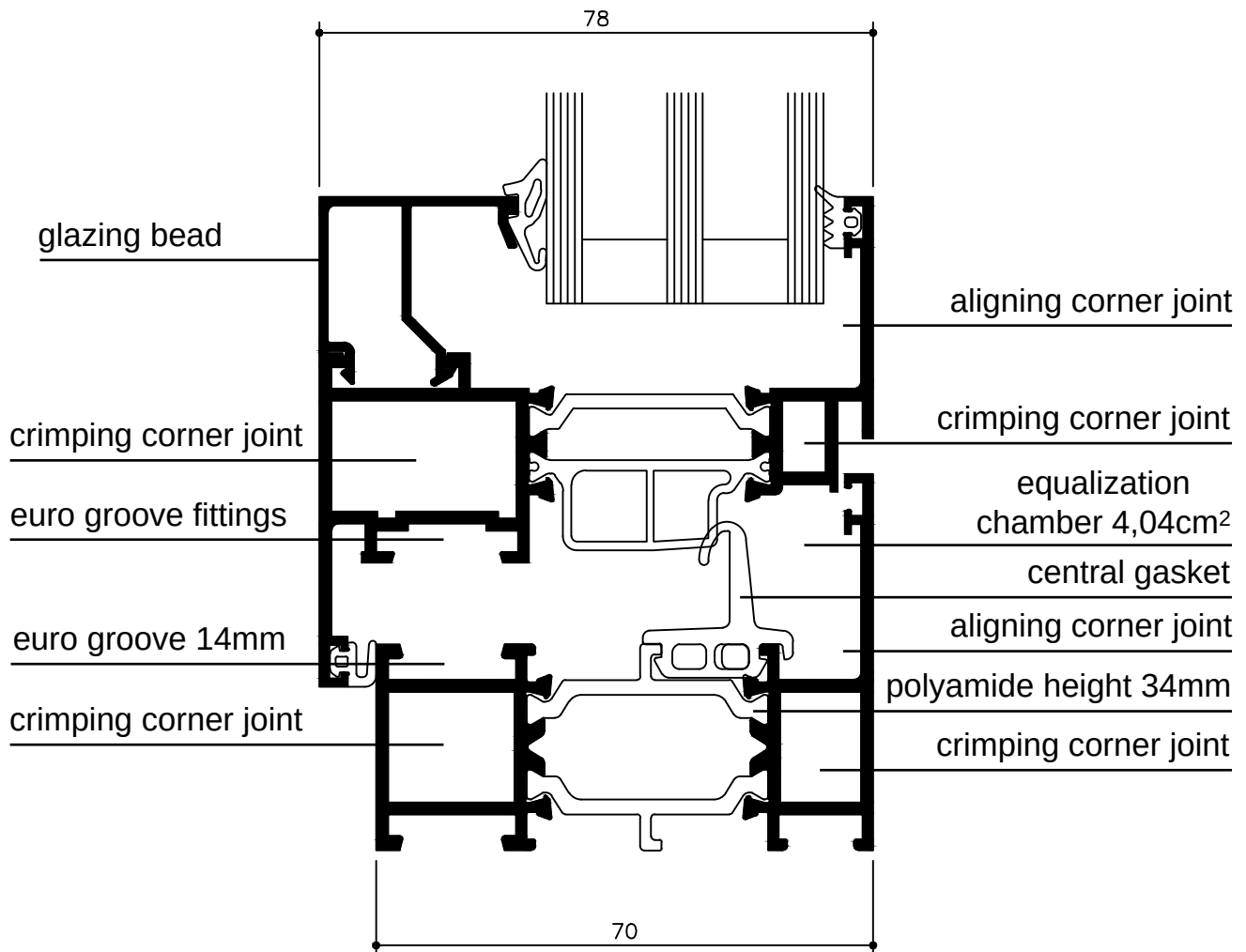
BEAR.C



Sector C Highlights



BEAR.34



Typology:

Aluminum section suitable for construction of:

- Windows open in single and double wing, turn and tilt, tilt;
- Door open in and out, one wing, double wing, swing door, half swing door.

Fittings:

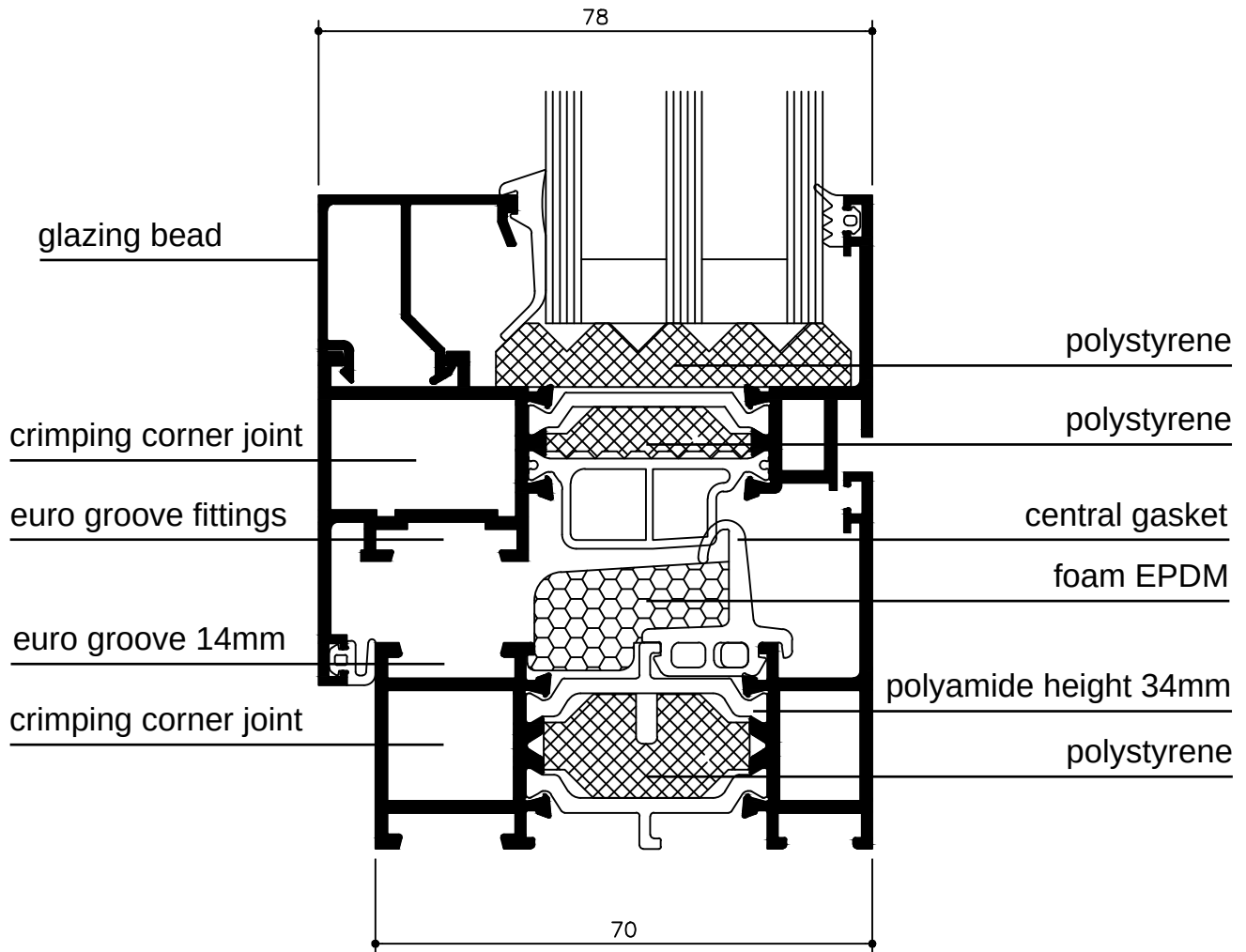
- Euro groove for windows and doors;
- Crimped corner joint;
- Corner joint with screw.

Save energy performances (calculated using Flixo 7):

- Window open in: width 1230mm, height 1480mm;
- U_f : 2,19;
- U_g : 1,3;
- Warm edge: 0,05;
- U_w : 1,65.



BEAR.34 Uf TOP PERFORMANCE



Typology:

Aluminum section suitable for construction of:

- Windows open in single and double wing, turn and tilt, tilt;
- Door open in and out, one wing, double wing, swing door, half swing door.

Fittings:

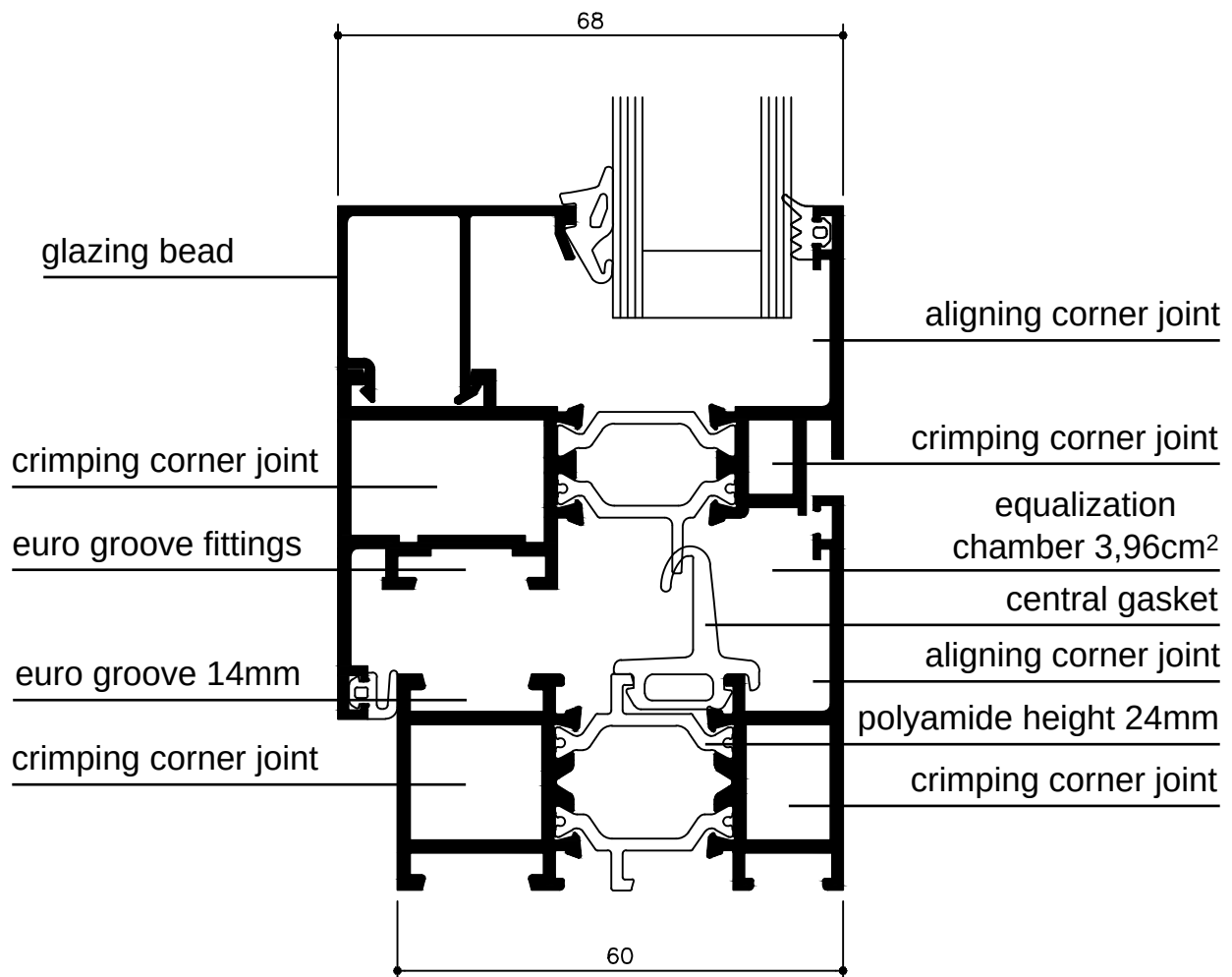
- Euro groove for windows and doors;
- Crimped corner joint;
- Corner joint with screw.

Save energy performances (calculated using Flixo 7):

- Window open in: width 1230mm, height 1480mm;
- Uf: 1,89;
- Ug: 0,6;
- Warm edge: 0,031;
- Uw: 1,00.



BEAR.24



Typology:

Aluminum section suitable for construction of:

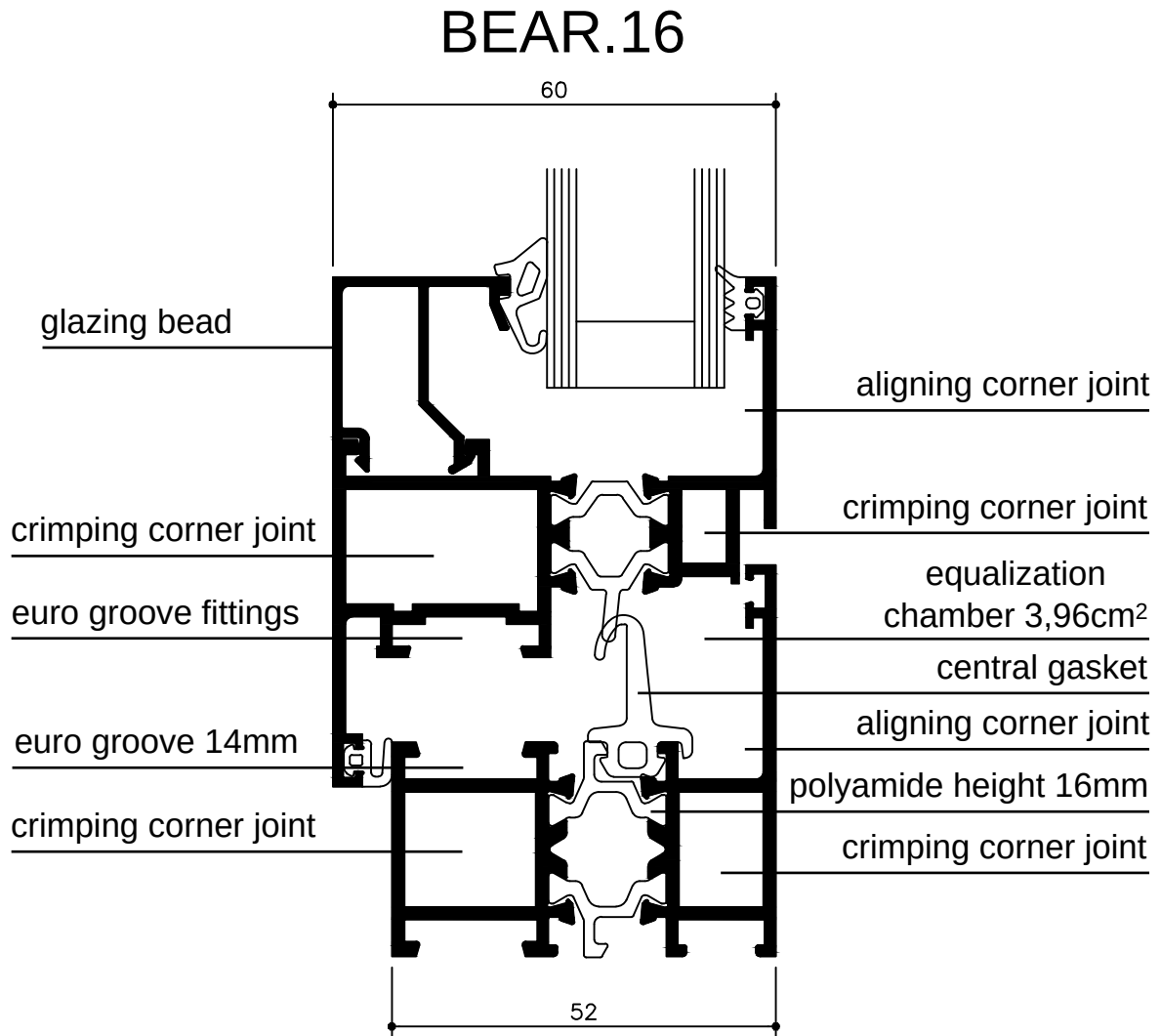
- Windows open in single and double wing, turn and tilt, tilt;
- Door open in and out, one wing, double wing, swing door, half swing door.

Fittings:

- Euro groove for windows and doors;
- Crimped corner joint;
- Corner joint with screw.

Save energy performances (calculated using Flixo 7):

- Window open in: width 1230mm, height 1480mm;
- U_f : 2,54;
- U_g : 1,3;
- Warm edge: 0,05;
- U_w : 1,75.



Typology:

Aluminum section suitable for construction of:

- Windows open in single and double wing, turn and tilt, tilt;
- Door open in and out, one wing, double wing, swing door, half swing door.

Fittings:

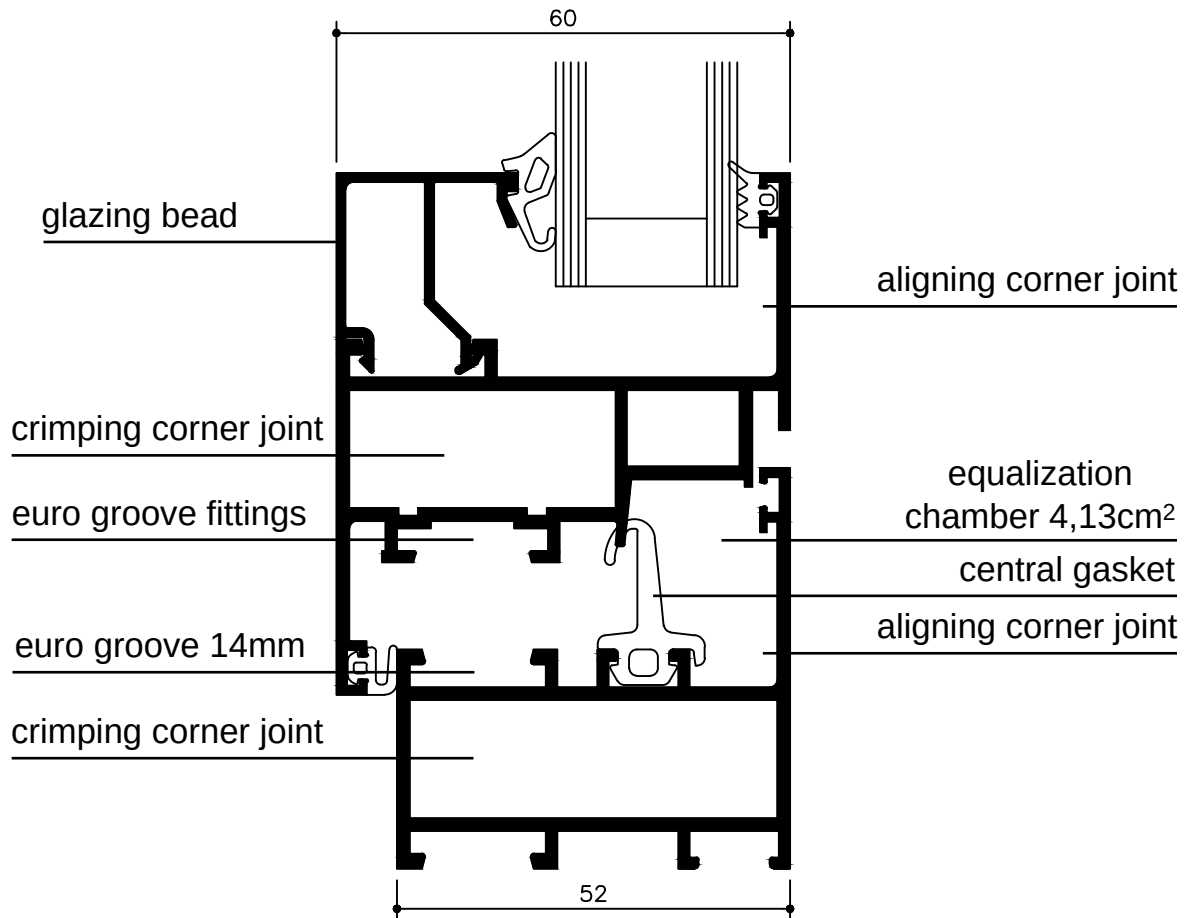
- Euro groove for windows and doors;
- Crimped corner joint;
- Corner joint with screw.

Save energy performances (calculated using Flixo 7):

- Window open in: width 1230mm, height 1480mm;
- U_f : 3,9;
- U_g : 1,3;
- Warm edge: 0,05;
- U_w : 1,89.



BEAR.C



Typology:

Aluminum section suitable for construction of:

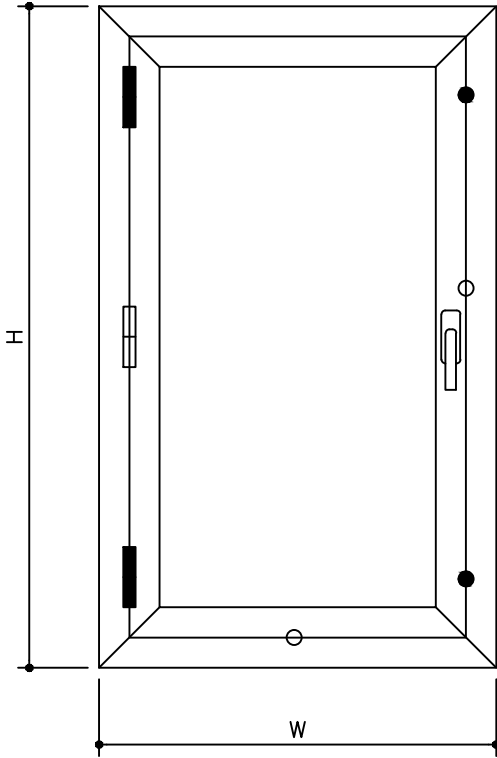
- Windows open in single and double wing, projecting window;
- Door open in and out, one wing, double wing, swing door, half swing door.

Fittings:

- Euro groove for windows and doors;
- Crimped corner joint;
- Corner joint with screw.



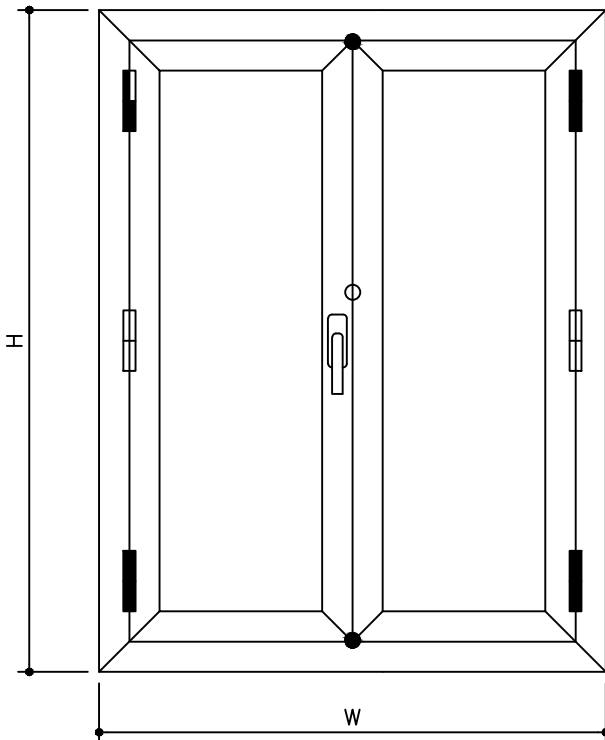
WINDOWS MAX DIMENSIONS



max sash size		
section	width (mm)	height (mm)
	1200	1600
	1200	2400

● CLOSING DEVICE ○ OPTION

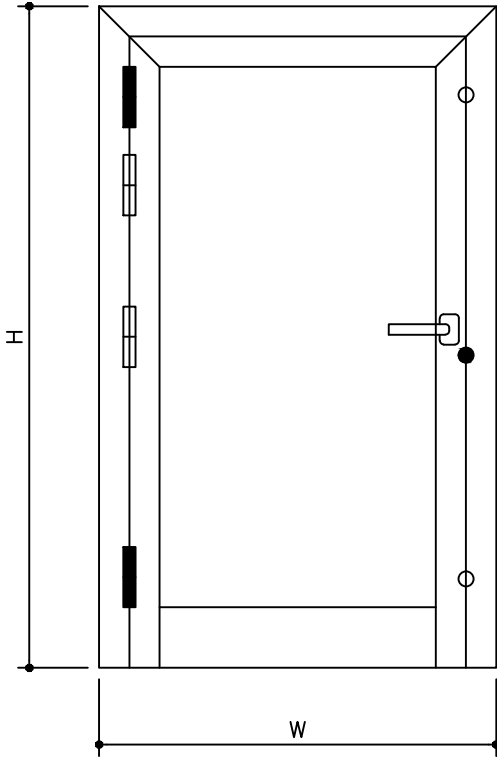
■ HINGE □ OPTION



max sash size		
section	width (mm)	height (mm)
	1800	1600
	1800	2400



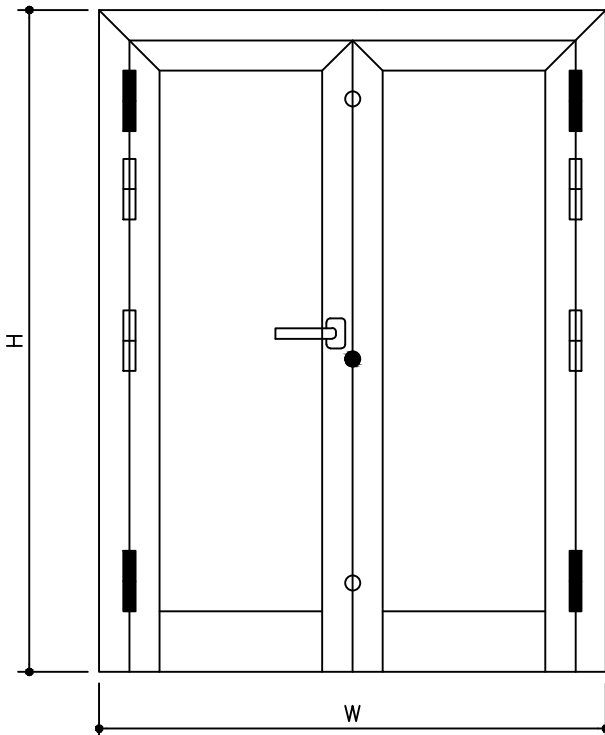
DOORS MAX DIMENSIONS



max sash size		
section	width (mm)	height (mm)
	1200	2500

● CLOSING DEVICE ○ OPTION

■ HINGE □ OPTION

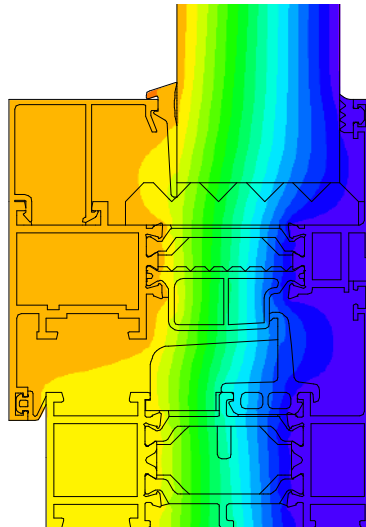
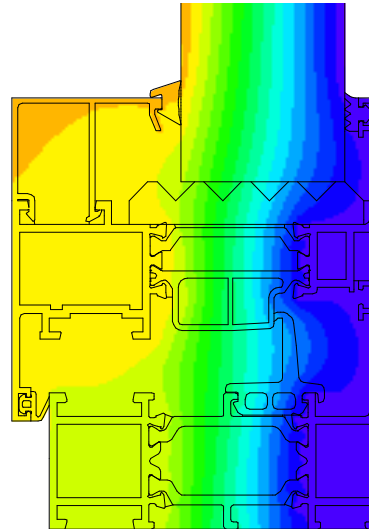


max sash size		
section	width (mm)	height (mm)
	2200	2500

Sector D
Uf values



BEAR.34
window open in
 $U_f=2,19$

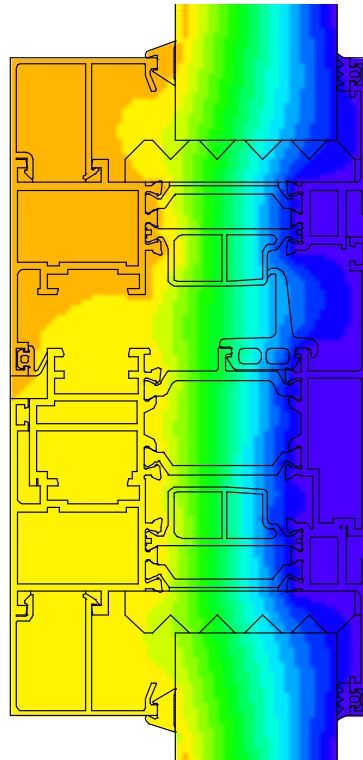


BEAR.34 U_f top
window open in
 $U_f=1,83$

Uw performance			
dimensions (mm)	width	1230	
	height	1480	
standard version glass U_g 0,6	glass U_g	0,6	U_w : 1,10
	warm edge	0,036	
U_f top version	glass U_g	0,6	U_w : 1,00
	warm edge	0,036	
standard version glass U_g 0,6	glass U_g	1,3	U_w : 1,65
	warm edge	0,05	



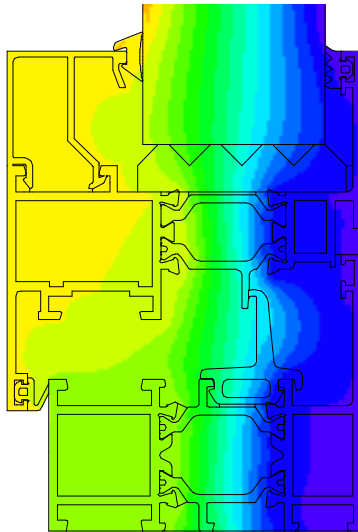
BEAR.34
2 wings window open in
Uf=2,08



Uw performance			
dimensions (mm)	width	1850	
	height	2180	
version with glass Ug 1,3	glass Ug	1,3	Uw: 1,65
	warm edge	0,05	
version with glass Ug 0,6	glass Ug	0,6	Uw: 1,08
	warm edge	0,036	

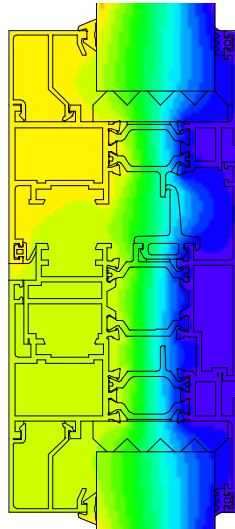


BEAR.24
Window open in
 $U_f=2,54$



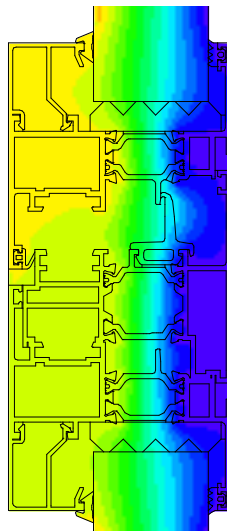
Uw performance			
dimensions (mm)	width	1230	
	height	1480	
version with glass Ug 1,3	glass Ug	1,3	Uw: 1,75
	warm edge	0,05	
version with glass Ug 0,6	glass Ug	0,6	Uw: 1,19
	warm edge	0,036	

BEAR.24
2 wing window open in
 $U_f=2,43$



Uw performance			
dimensions (mm)	width	1850	
	height	2180	
version with glass Ug 1,3	glass Ug	1,3	Uw: 1,73
	warm edge	0,05	
version with glass Ug 0,6	glass Ug	0,6	Uw: 1,17
	warm edge	0,036	

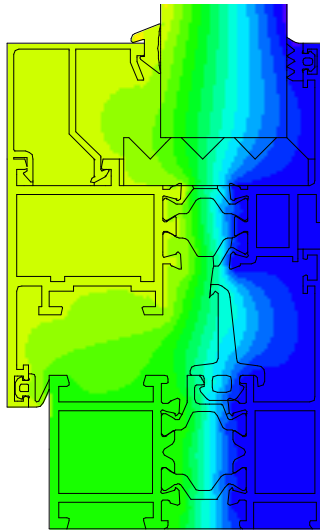
BEAR.24
Window open out
 $U_f=2,76$



Uw performance			
dimensions (mm)	width	1230	
	height	1480	
version with glass Ug 1,3	glass Ug	1,3	Uw: 1,86
	warm edge	0,05	
version with glass Ug 0,6	glass Ug	0,6	Uw: 1,24
	warm edge	0,036	

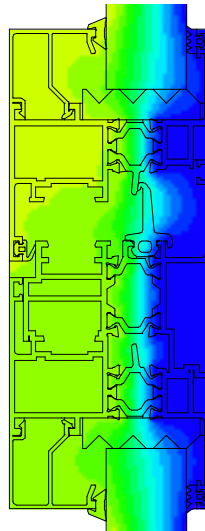


BEAR.16
Window open in
Uf=3,09



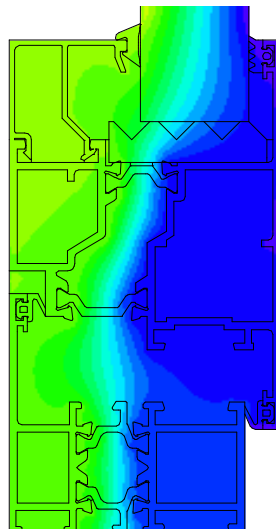
Uw performance			
dimensions (mm)	width	1230	
	height	1480	
version with glass Ug 1,3	glass Ug	1,3	Uw: 1,89
	warm edge	0,05	
version with glass Ug 0,6	glass Ug	0,6	Uw: 1,33
	warm edge	0,036	

BEAR.16
2 wing window open in
Uf=3,02



Uw performance			
dimensions (mm)	width	1850	
	height	2180	
version with glass Ug 1,3	glass Ug	1,3	Uw: 1,87
	warm edge	0,05	
version with glass Ug 0,6	glass Ug	0,6	Uw: 1,24
	warm edge	0,036	

BEAR.16
Window open out
Uf=3,26



Uw performance			
dimensions (mm)	width	1230	
	height	1480	
version with glass Ug 1,3	glass Ug	1,3	Uw: 2,01
	warm edge	0,05	
version with glass Ug 0,6	glass Ug	0,6	Uw: 1,37
	warm edge	0,036	

Sector E

Sections list



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
9080100		L frame	1,256	10,72	6,12	86
9080201		Z frame	1,374	13,22	10,01	111
9082423		L frame big	1,568	14,04	16,30	120
9080600		T frame	1,354	11,92	9,82	114
9082523		T frame reinforced	2,335	65,19	25,04	258
9082322		T frame big	1,658	15,17	22,25	148
9080504		Z sash	1,290	15,84	7,80	89
9084948		Z sash big	1,727	22,13	19,12	123
9080807		T sash open out	1,676	20,04	19,24	123
9082928		Adaptor frame	1,151	8,99	6,30	66



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
9082726		Window stulp open in	1,315	12,31	8,45	73
9083130		Window stulp open out	1,277	12,36	8,92	77
9081009		Z sash door	1,864	24,18	31,61	147
9081211		T sash door	1,909	23,70	31,98	147
9084720		Lower transom fix panel	3,001	30,92	174,83	280
9081817		Middle transom fix panel	3,059	29,03	168,76	280
9081917		Middle transom sash door	2,941	38,05	170,38	280
9082120		Lower transom sash door	2,887	40,93	177,18	280
9083332		Bottom sealing door open in	0,718			84
9083834		Door bottom frame open out	1,052			90



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
9083736		Bottom sealing door open out	0,743			52
9083534		Door bottom frame open in	1,058			88
9085150		Swing door adaptor frame	1,102	11,46	3,51	81
9085352		Swing door adaptor sash	1,006	9,45	3,21	70
9084140		Half swing door adaptor sash	1,148	11,62	3,95	62
9080100(A)		L frame	1,282	15,56	6,13	86
9080201(A)		Z frame	1,400	18,85	10,01	111
9082423(A)		L frame big	1,594	20,29	16,30	120
9080100(A)		T frame	1,380	17,24	9,82	114
9082523(A)		T frame reinforced	2,361	77,80	25,04	258



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
9082322(A)		T frame big	1,684	21,87	22,25	148
9080504(A)		Z sash	1,315	21,43	6,31	89
9084948(A)		Z sash big	1,752	30,11	19,12	123
9080807(A)		T sash open out	1,705	27,20	19,24	123
9082928(A)		Adaptor frame	1,183	13,30	6,30	66
9082726(A)		Window stulp open in	1,344	17,60	8,45	73
9083130(A)		Window stulp open out	1,303	17,64	8,92	77
9081009(A)		Z sash door	1,893	32,72	31,65	147
9081211(A)		T sash door	1,938	32,09	31,98	147
9084720(A)		Lower transom fix panel	3,030	44,27	174,83	280



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
9081817(A)		Middle transom fix panel	3,085	41,80	168,76	280
9081917(A)		Middle transom sash door	2,967	51,95	170,38	280
9082120(A)		Lower transom sash door	3,072	55,55	177,18	280
9083332(A)		Bottom sealing door open in	0,734			84
9083834(A)		Door bottom frame open out	1,084			90
9083736(A)		Bottom sealing door open out	0,759			52
9083534(A)		Door bottom frame open in	1,090			88
9085150(A)		Swing door adaptor frame	1,134	15,90	3,51	81
9085352(A)		Swing door adaptor sash	1,038	12,50	3,21	70
9084140(A)		Half swing door adaptor sash	1,174	16,36	3,95	62



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
9080100(B)		L frame	1,372	23,11	6,13	86
9080201(B)		Z frame	1,490	27,52	10,01	111
9082423(B)		L frame big	1,684	30,00	16,30	120
9080600(B)		T frame	1,470	25,49	9,82	114
9082523(B)		T frame reinforced	2,451	96,11	25,05	258
9082322(B)		T frame big	1,774	32,24	22,25	148
9080504(B)		Z sash	1,427	29,85	7,80	89
9084948(B)		Z sash big	1,864	42,16	19,12	123
9082928(B)		Adaptor frame	1,251	20,08	6,30	66
9082726(B)		Window stulp open in	1,423	25,80	8,45	73

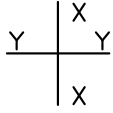
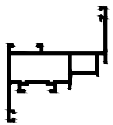
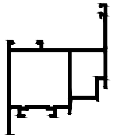
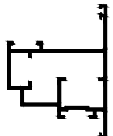
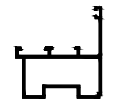
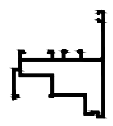
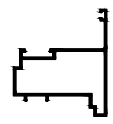
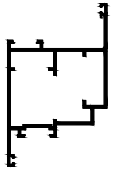
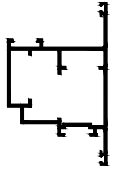
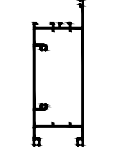
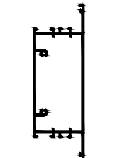


CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
9083130(B)		Window stulp open out	1,369	25,75	8,92	77
9081009(B)		Z sash door	1,960	45,64	31,65	147
9081211(B)		T sash door	2,005	44,85	31,98	147
9084720(B)		Lower transom fix panel	3,109	64,86	174,83	280
9081817(B)		Middle transom fix panel	3,175	61,60	168,76	280
9081917(B)		Middle transom sash door	3,057	73,05	170,38	280
9082120(B)		Lower transom sash door	2,995	77,65	177,18	280
9083332(B)		Bottom sealing door open in	0,768			84
9083834(B)		Door bottom frame open in	1,152			90
9083736(B)		Bottom sealing door open out	0,793			52



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
9083534(B)		Door bottom frame open out	1,068			88
9085150(B)		Swing door adaptor frame	1,202	22,75	3,51	81
9085352(B)		Swing door adaptor sash	1,106	17,21	3,21	70
9084140(B)		Half swing door adaptor sash	1,240	23,61	3,95	62
90900		L frame	0,998	12,87	6,15	86
90901		Z frame	1,115	15,96	10,15	111
90902		L frame big	1,154	16,57	15,76	120
90903		T frame	1,120	14,36	10,12	114
90905		T frame reinforced	1,947	77,07	25,19	258
90904		T frame big	1,267	17,98	22,40	148



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
90906		Z sash	1,152	19,50	8,04	89
90907		Z sash big	1,391	24,97	19,31	123
90909		T sash open out	1,396	23,88	19,39	123
90910		Adaptor frame	0,896	10,75	6,30	66
90908		Window stulp open in	1,094	14,92	8,64	73
90911		Window stulp open out	0,948	14,30	9,02	77
90912		Z sash door	1,508	28,67	31,67	147
90913		T sash door	1,507	27,49	31,92	147
90914		Lower transom fix panel	2,132	36,39	155,38	280
90915		Middle transom fix panel	2,114	34,72	151,88	280



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
90917		Middle transom sash door	1,882	44,31	142,49	280
90916		Lower transom sash door	1,978	47,76	151,62	280
90918		Bottom sealing door open in	0,639			84
90921		Door bottom frame open in	0,797			90
90920		Bottom sealing door open out	0,613			52
90919		Door bottom frame open out	0,815			88
90923		Swing door adaptor frame	0,827	11,83	3,36	70
90924		Swing door adaptor sash	1,053	13,65	3,60	81
90922		Half swing door adaptor sash	0,921	13,72	4,16	62
90854		Glazing bead 4mm	0,214			26



CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
90846		Glazing bead 8mm	0,234			30
90845		Glazing bead 12mm	0,237			34
90844		Glazing bead 16mm	0,268			38
90803		Glazing bead 20mm	0,284			42
90855		Glazing bead 24mm	0,291			46
90856		Glazing bead 28mm	0,298			50
90857		Glazing bead 32mm	0,309			54
90858		Glazing bead 36mm	0,324			58
90859		Glazing bead 40mm	0,338			62
90860		Glazing bead 44mm	0,348			66

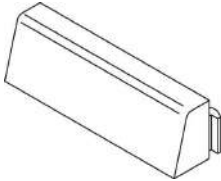
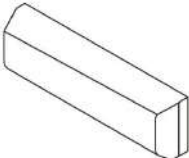
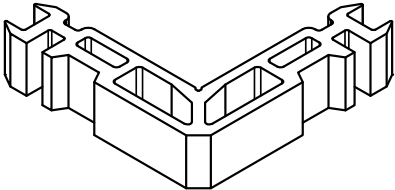
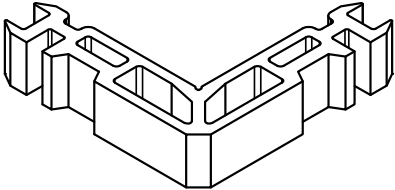
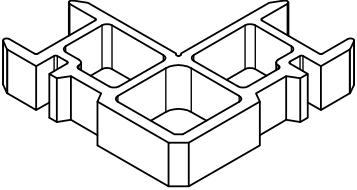
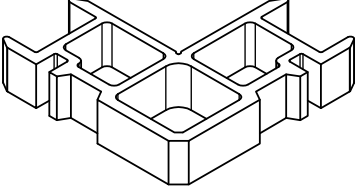
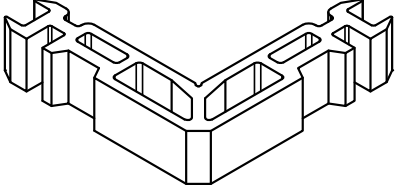
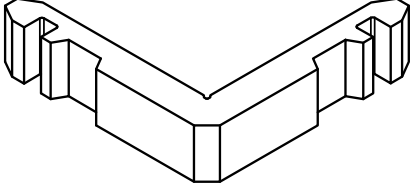
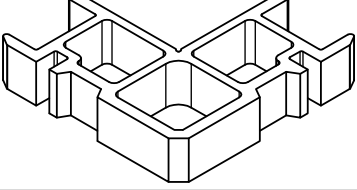


CODE		DESCRIPTION	WEIGHT kg/m	Jx cm ⁴	Jy cm ⁴	SURFACE Ox mm
90861		Glazing bead 48mm	0,362			70
90839		Architrave	0,271			38

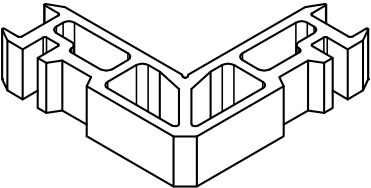
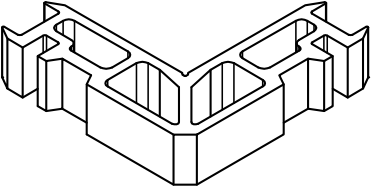
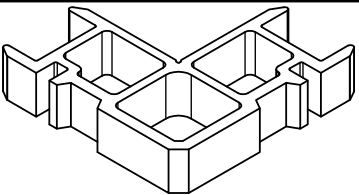
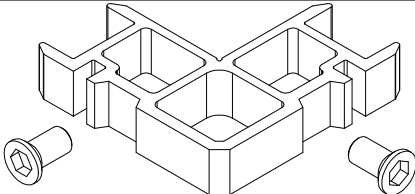
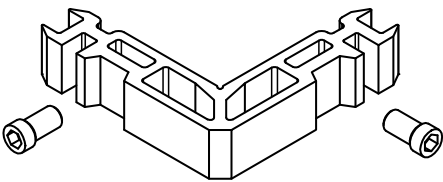
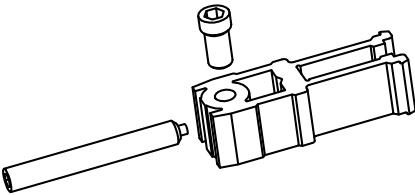
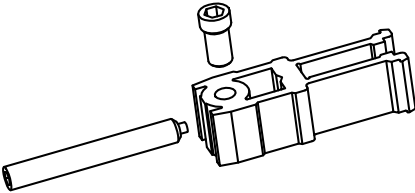
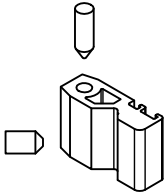
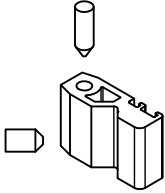
Sector F

Fittings list



CODE		DESCRIPTION
QXA0514		Water drain cap
QXA0515		Water drain cap with valve
QXA0547		Crimping corner joint 17,2
QXA0548		Crimping corner joint 10,8
QXA0549		Crimping corner joint 17,2
QXA0550		Crimping corner joint 10,8
QXA0551		Crimping corner joint 25,5
QXA0552		Crimping corner joint 5,5
QXA0553		Crimping corner joint 25,5

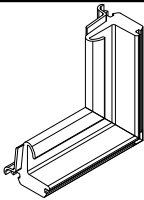
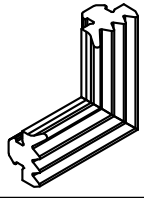
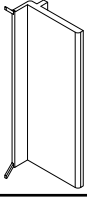
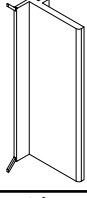
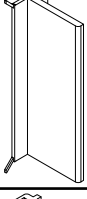
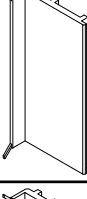
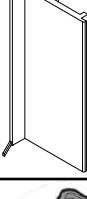


CODE		DESCRIPTION
QXA0554		Crimping corner joint 5,5
QXA0555		Crimping corner joint 10,5
QXA0556		Crimping corner joint 10,5
QXA0557		M8 screws corner joint 25,5
QXA0558		M6 screws corner joint 25,5
QXA0559		T joint 15
QXA0560		T joint 30
QXA0561		External T joint 15
QXA0562		External T joint 30

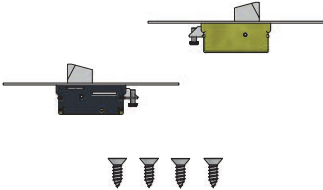


CODE		DESCRIPTION
QXA0563		T joint 97
QXA0564		External T joint 97
QXA0565		Aligning corner joint 19,6
QXA0566		Aligning corner joint 21,6
QXA0567		Plugs kit for window 2 wings open in
QXA0568		Plugs kit for door 2 wings
QXA0569		Lower plugs kit for door 2 wings
QXA0570		Vulcanized corner joint for central gasket BEAR.16
QXA0571		Vulcanized corner joint for central gasket BEAR.24

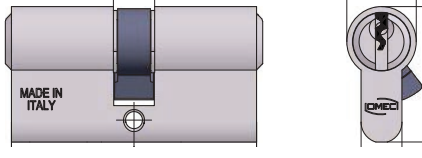
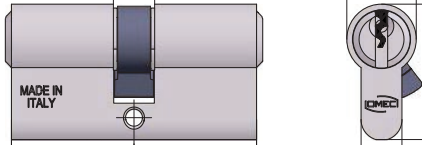
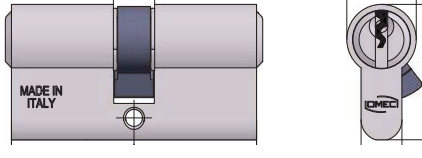
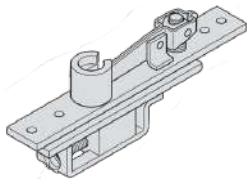
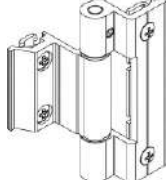


CODE		DESCRIPTION
QXA0572		Vulcanized corner joint for central gasket BEAR.34
QXA0573		Vulcanized corner joint for glass gasket
QXA0574		Frame spacer BEAR.16
QXA0575		Frame spacer BEAR.24
QXA0576		Frame spacer BEAR.34
QXA0577		Sash glass spacer BEAR.16
QXA0578		Sash glass spacer BEAR.24
QXA0579		Sash glass spacer BEAR.34
QXA0580		Adjusting block

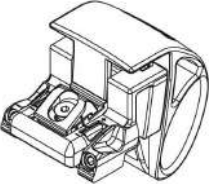
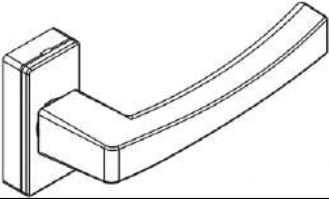
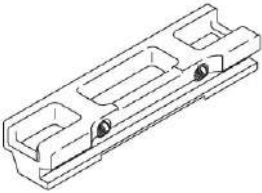
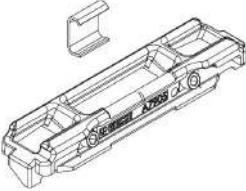


CODE		DESCRIPTION
QXA0581		Covering plug for adjusting block
QXA0582		One locking point security lock
QXA0583		One locking point security lock with roller bolt
QXA0584		Three locking points security lock
QXA0585		Two additional locking points for external rod deviators
QXA0586		Additional lock point adaptor
QXA0587		Two locking points lock (top and bottom) for swing door
QXA0588		Internal rods for additional lock QXA0587
QXA0589		Euro groove stainless steel adjustable striking plate

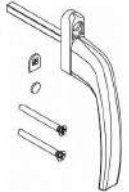
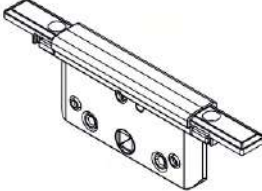
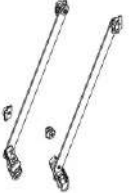
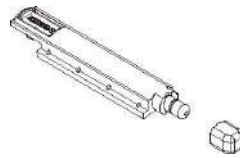
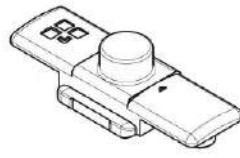
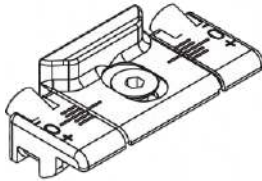
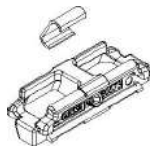


CODE		DESCRIPTION
QXA0590		Euro groove stainless steel additional striking plate
QXA0591		Cylinder 30+50
QXA0592		Cylinder 30+60
QXA0593		Cylinder 30+70
QXA0594		Swing door top hinge
QXA0595		Window hinge 2 wings
QXA0596		Window hinge 3 wings
QXA0597		Door hinge 2 wings
QXA0598		Window handle turn and tilt

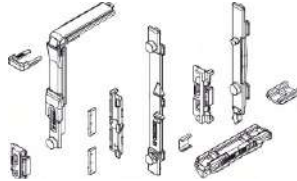
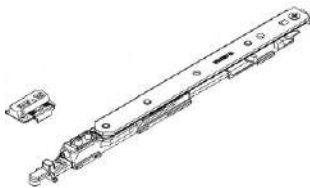
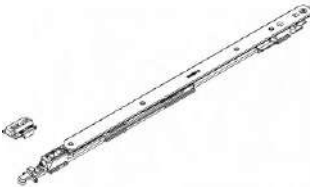
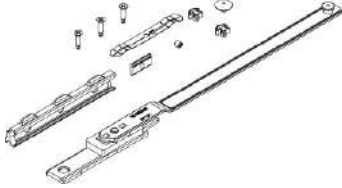
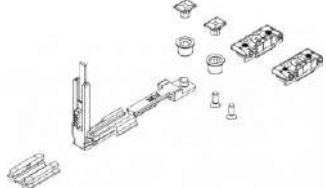
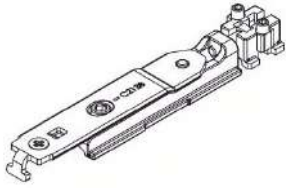


CODE		DESCRIPTION
QXA0599		Window handle open in 1 sash and 2 sash
QXA0600		Spring latch for bottom hung window
QXA0601		Door handle
QXA0602		Cover cylinder plate
QXA0603		Door 2 wings latch, stulp side
QXA0604		Nylon double striking plate for latch suitable for QXA0603
QXA0605		Zamak double striking plate for latch suitable for QXA0603
QXA0606		Nylon latch, stulp side
QXA0607		Crank handle square bolt 7mm

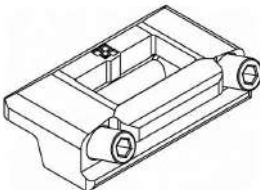
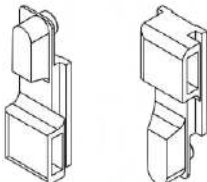
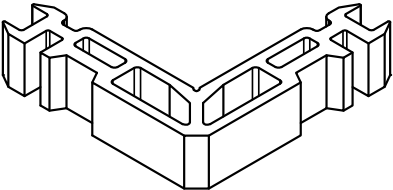
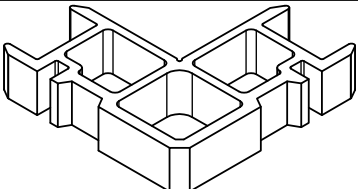
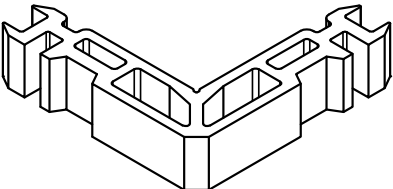
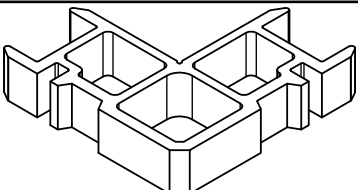
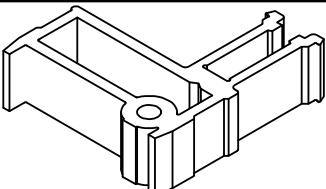


CODE		DESCRIPTION
QXA0608		Window open out crank handle square bolt 7mm
QXA0609		Handle connector control rod window open out 7mm
QXA0610		Tilt arm
QXA0611		Stop arm top hung window
QXA0612		Closing device 2 sash adjustable suitable for QXA0625
QXA0613		Nylon closing device 2 sash
QXA0614		Intermediate closing device
QXA0615		Striking plate suitable for all closing cylinder pin
QXA0616		Single striking plate suitable for QXA0612 and QXA0613

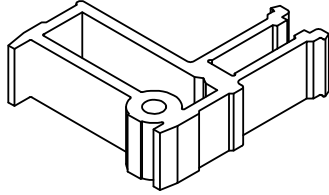


CODE		DESCRIPTION
QXA0617		Turn and tilt device
QXA0618		Turn and tilt hinge
QXA0619		Short arm (410/700)
QXA0620		Long arm (570/1800)
QXA0621		Additional arm
QXA0622		Additional closing device
QXA0623		Stop arm open in
QXA0624		Hinge adaptor turn and tilt
QXA0625		Latch turn & turn and tilt with horizontal striking plate



CODE		DESCRIPTION
QXA0626		Corner transmission device
QXA0627		Fixed pin closing device
QXA0628		Lower sash support
QXA0629		Handle control rod connector
QXA0630		Crimping corner joint 48
QXA0631		Crimping corner joint 48
QXA0632		Crimping corner joint 34,6
QXA0633		Crimping corner joint 34,6
QXA0634		T joint 15

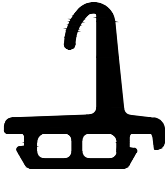
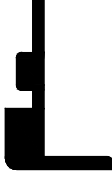


CODE		DESCRIPTION
QXA0635		T joint 32

Sector G

Gaskets list

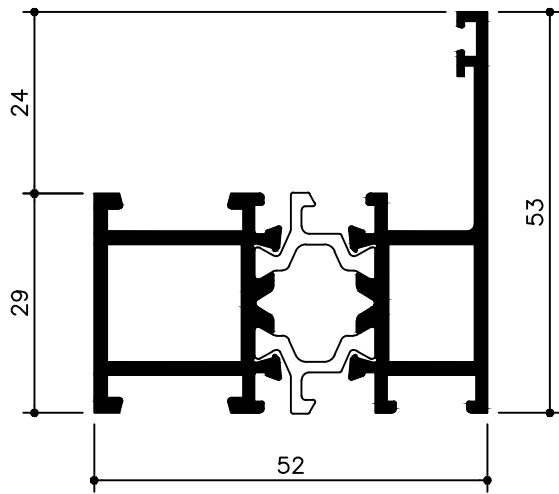


CODE		DESCRIPTION
QXG0500		External glass gasket fixed frame
QXG0501		Rabbit gasket
QXG0506		Central gasket
QXG0507		Central gasket
QXG0508		Central gasket
QXG0510		Sealing gasket T joint
QXG0511		Internal glass gasket big
QXG0512		Internal glass gasket medium
QXG0513		Internal glass gasket slim

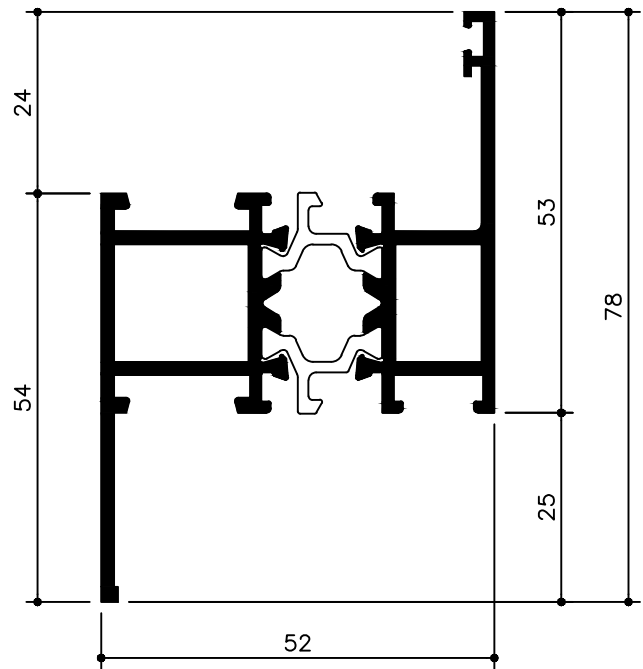


CODE		DESCRIPTION
QXG0514		External sound proofing gasket
QXG0515		Lower fixed frame transom gasket
QXP003		Control rod

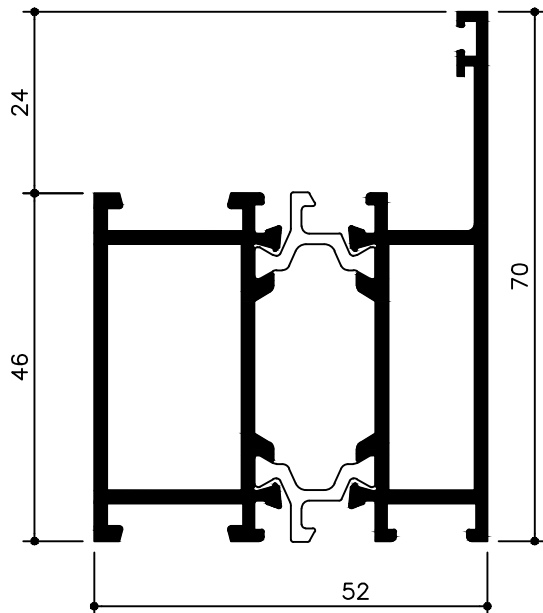
Sector H
Sections scale 1:1



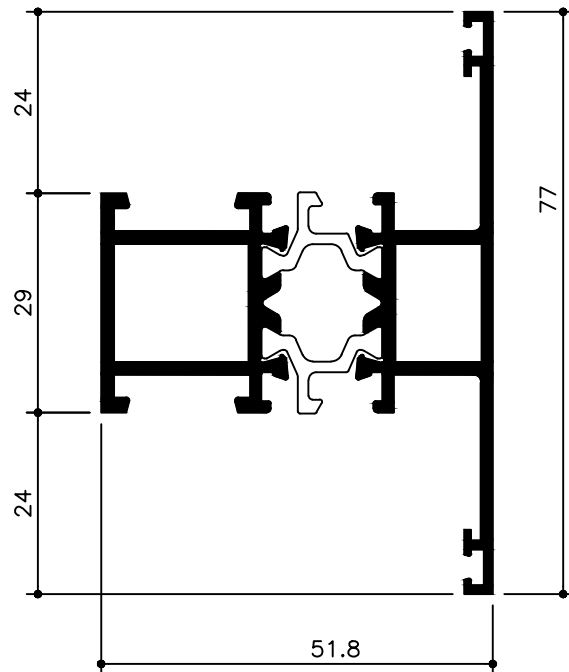
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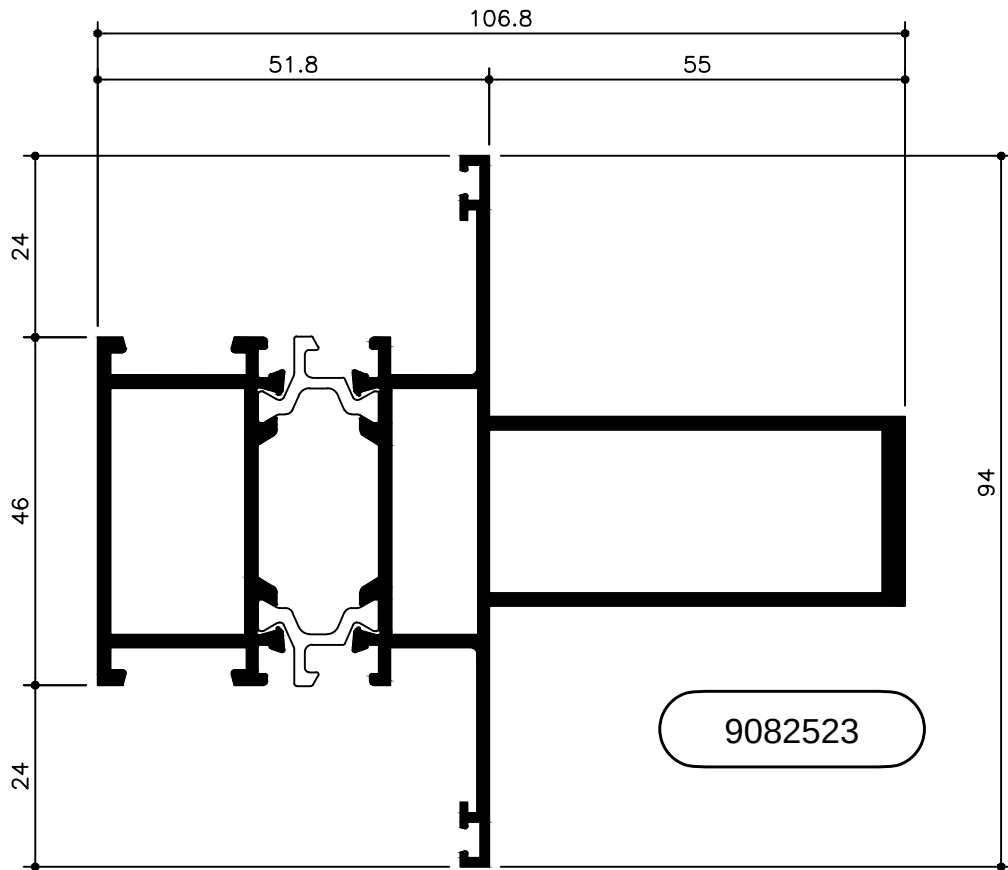
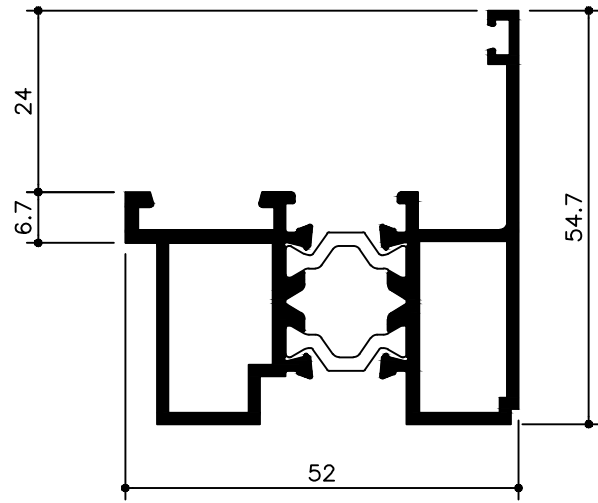
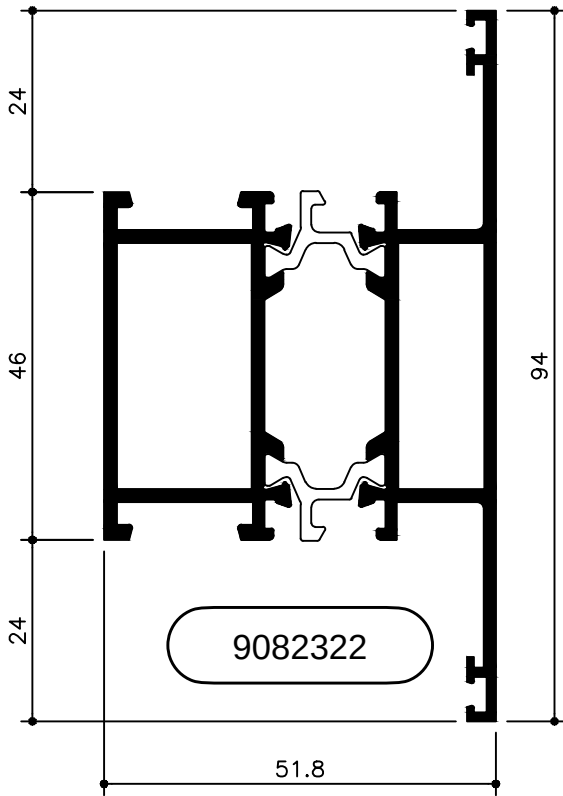
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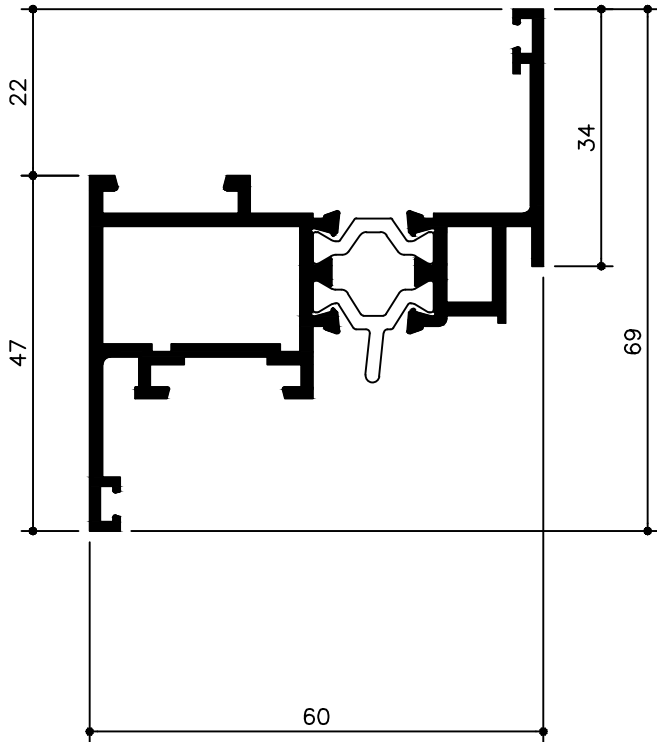


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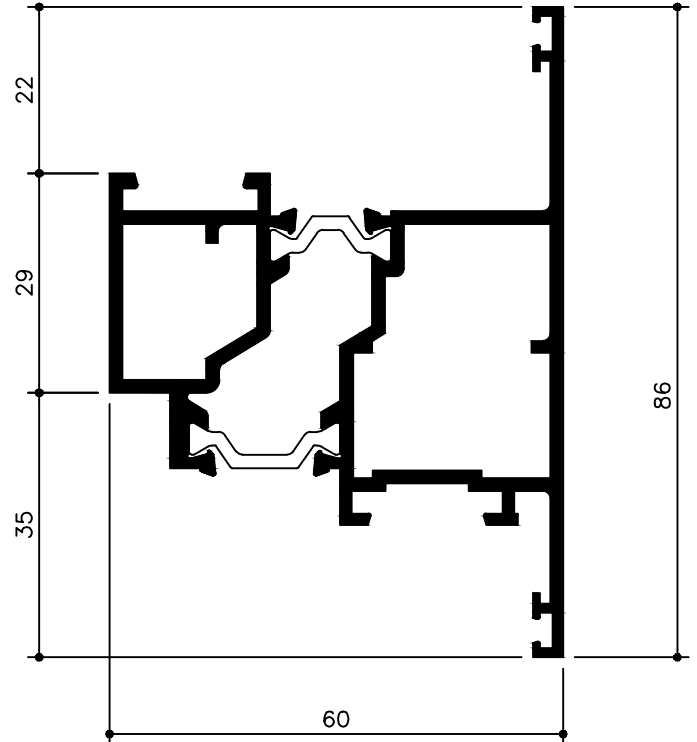


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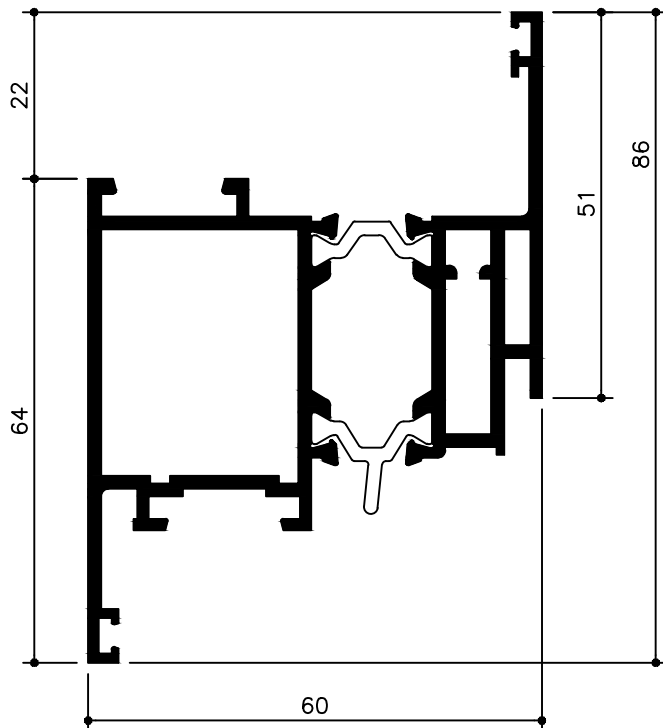




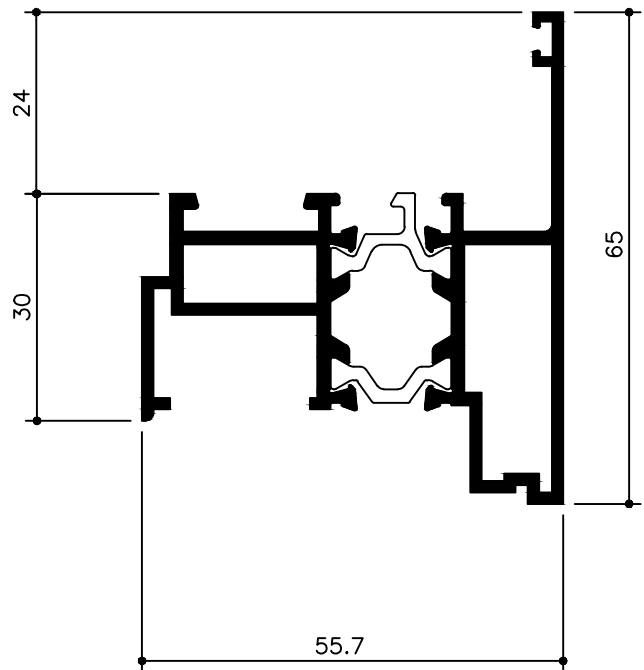
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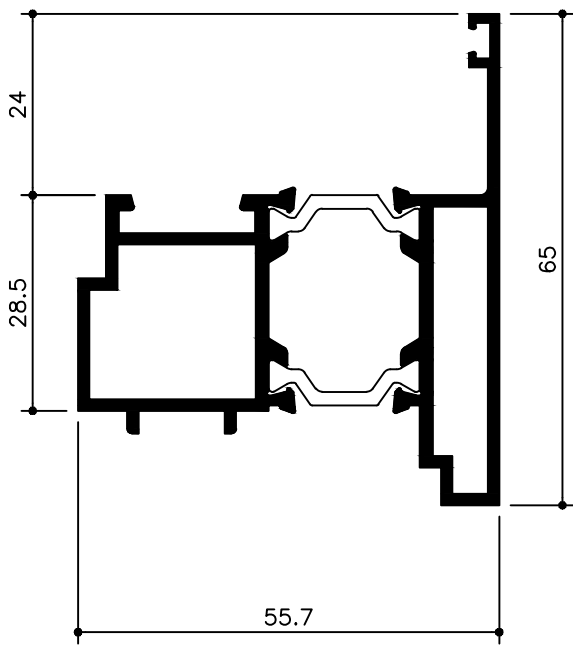
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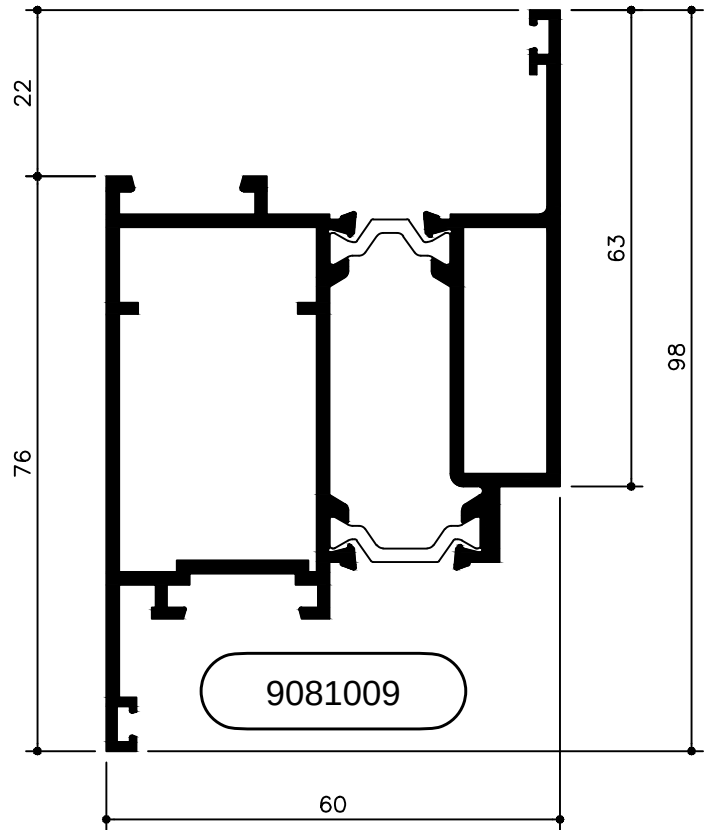
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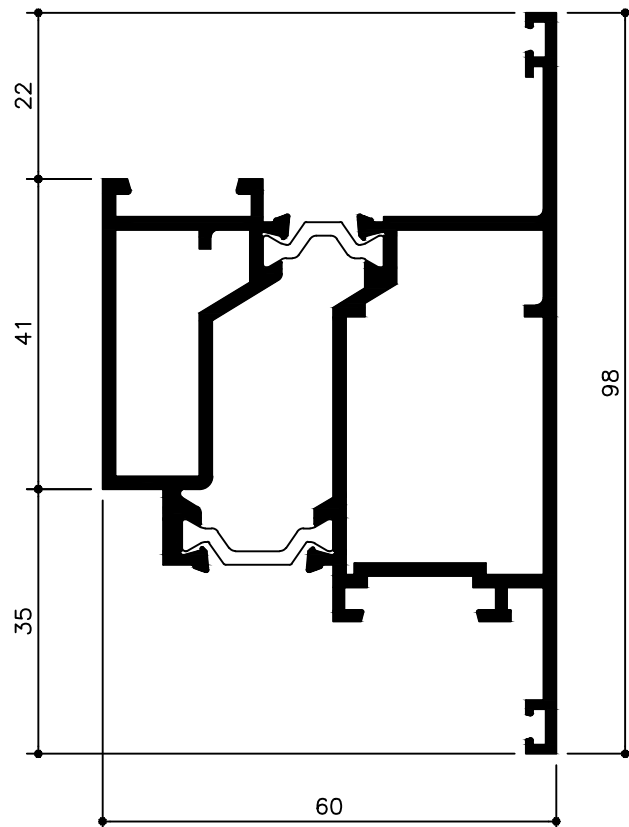
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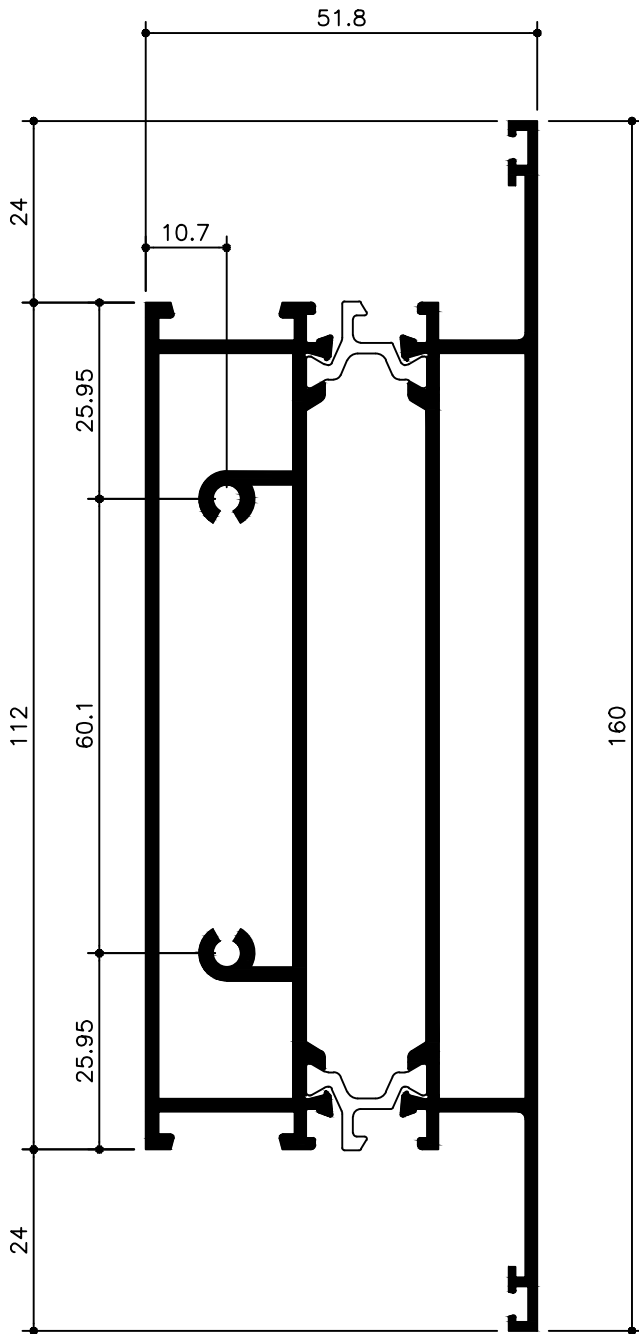
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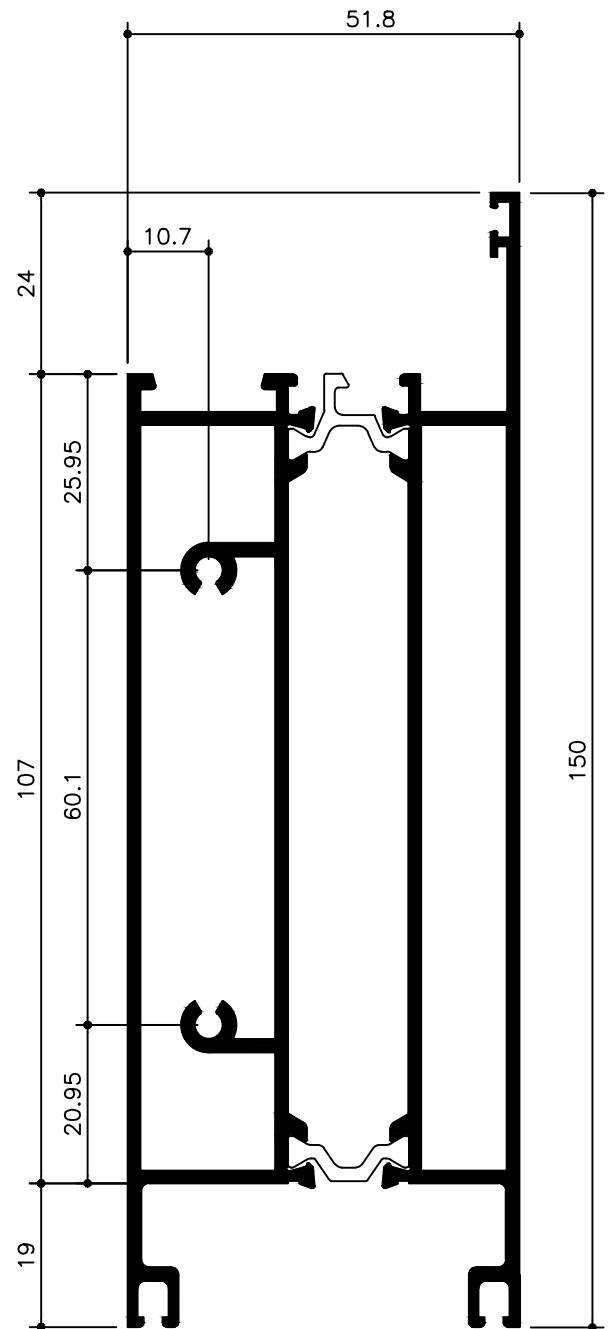
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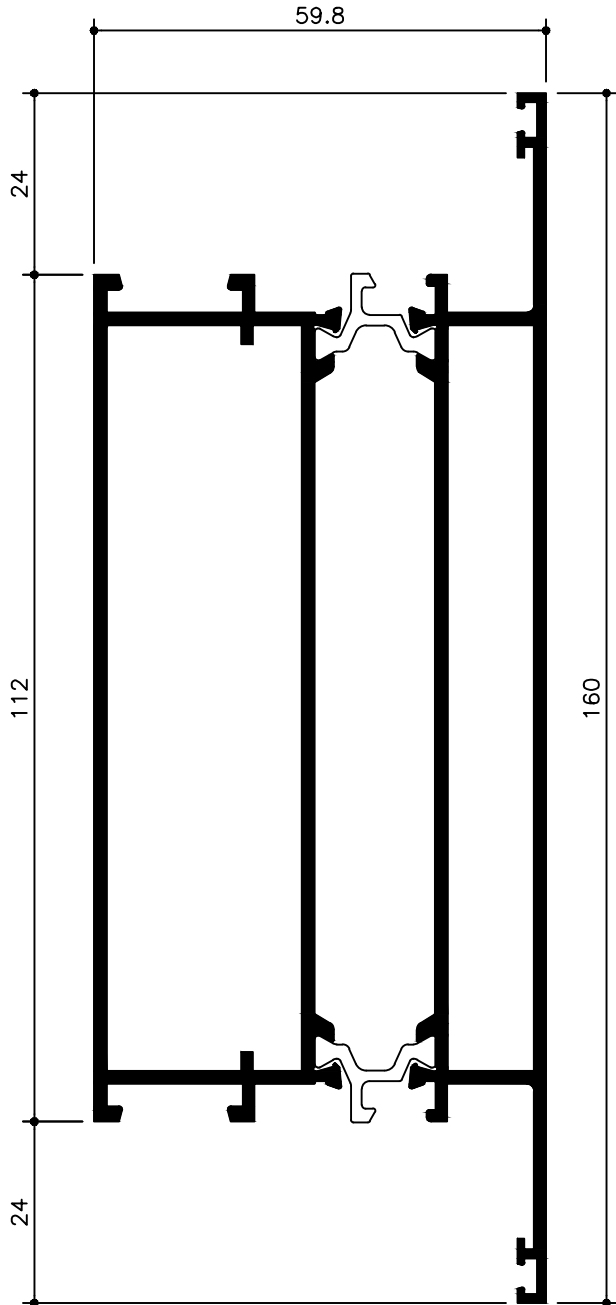
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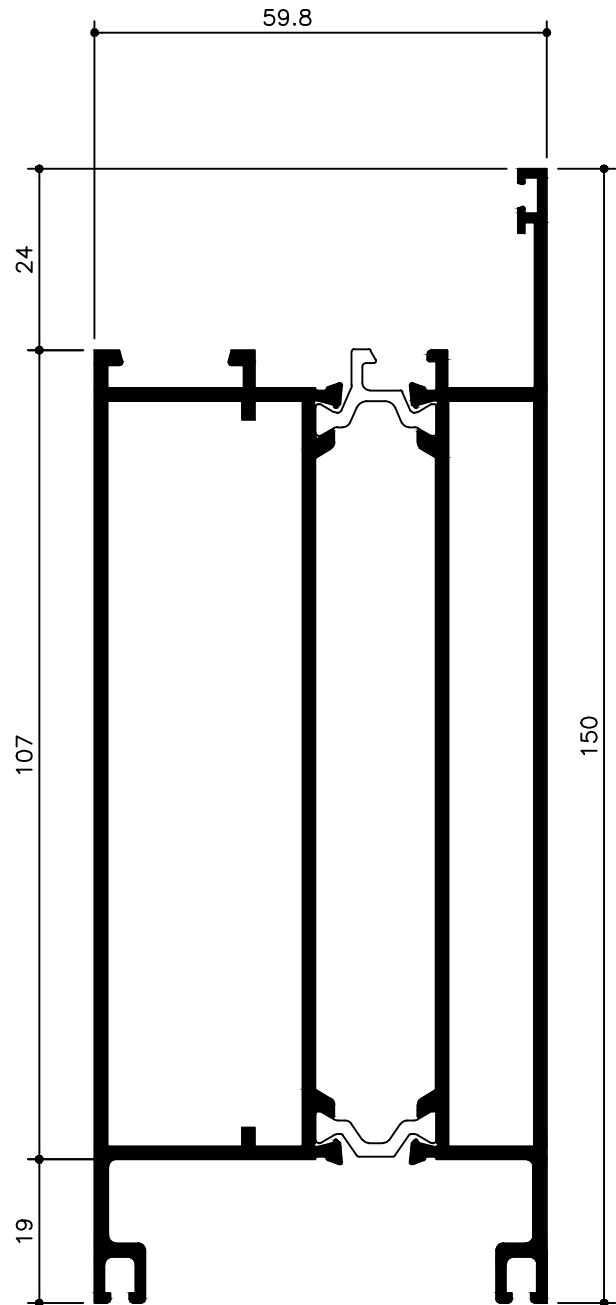
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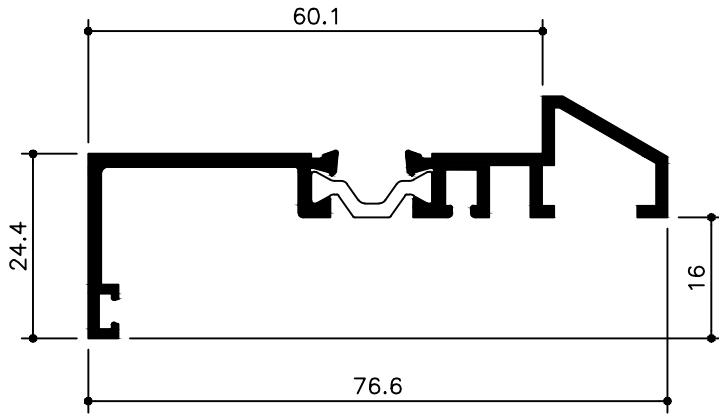
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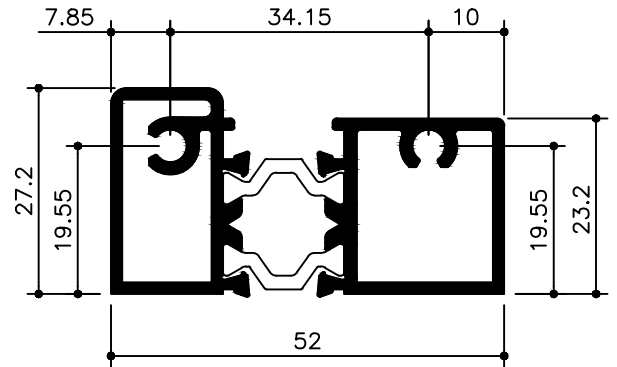
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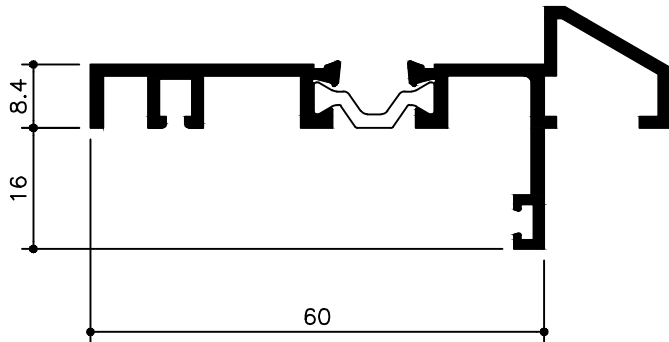
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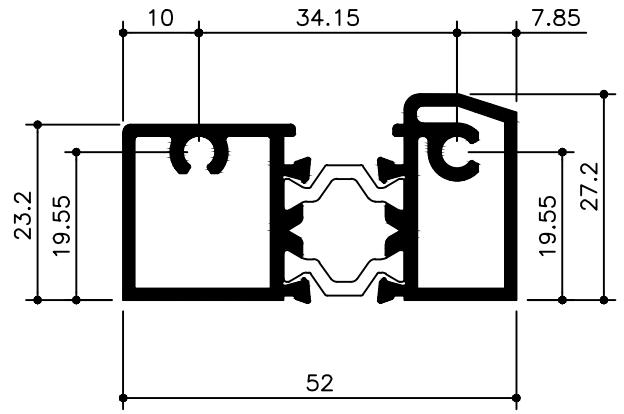
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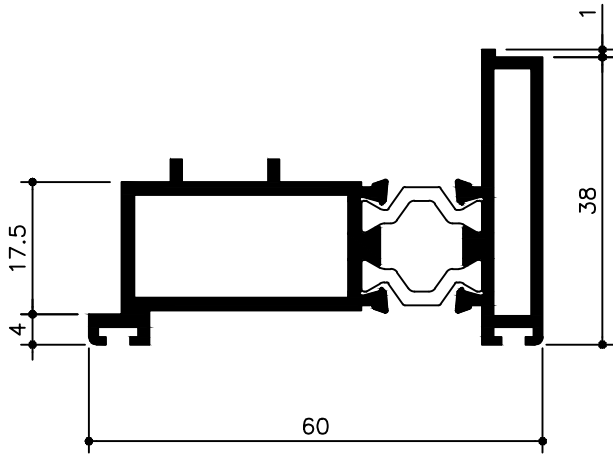
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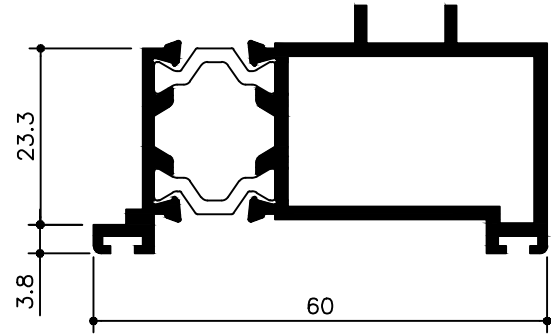
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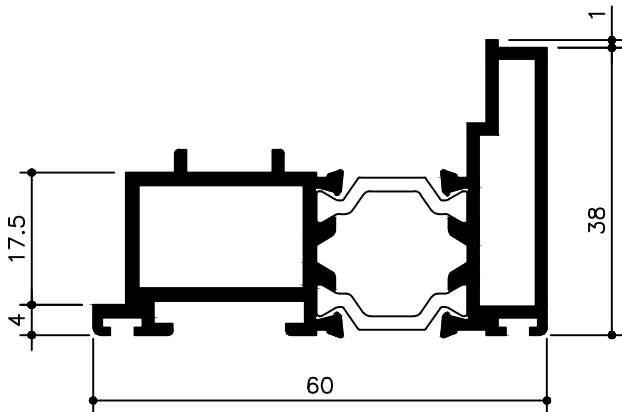
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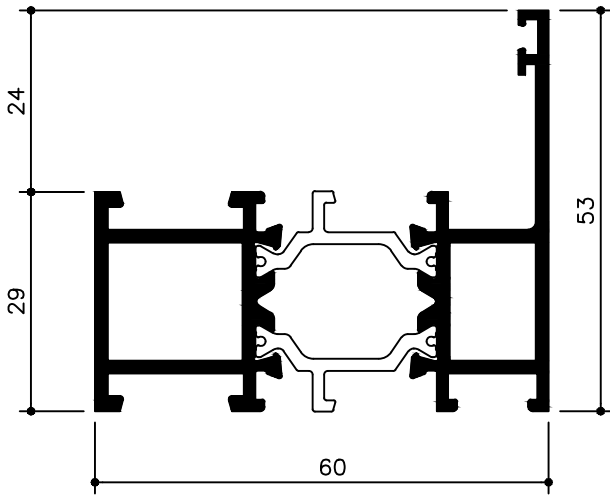
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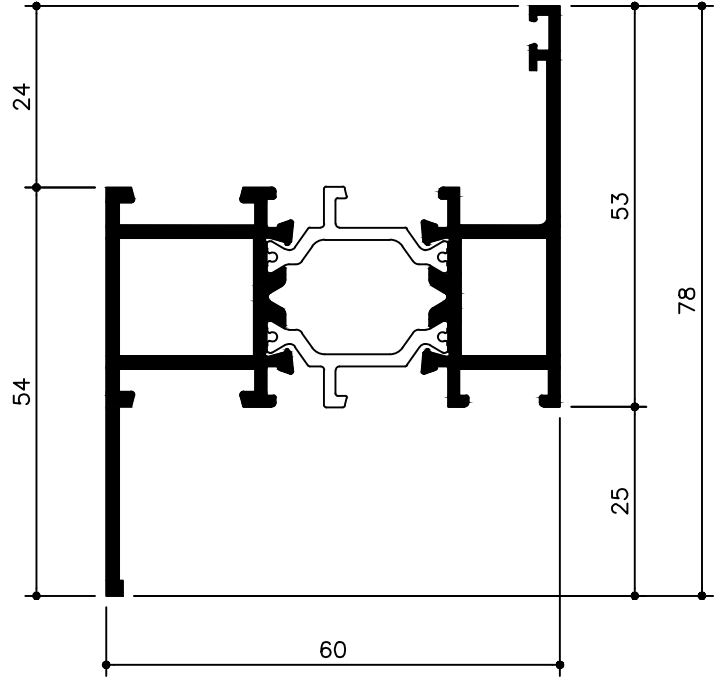
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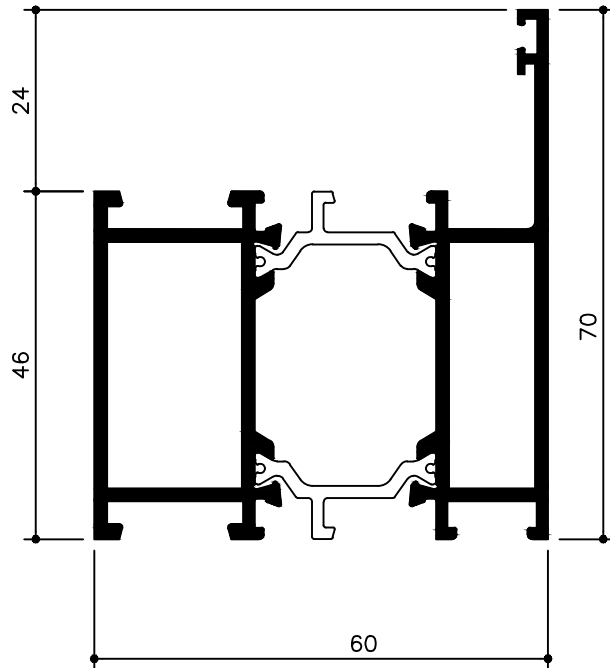
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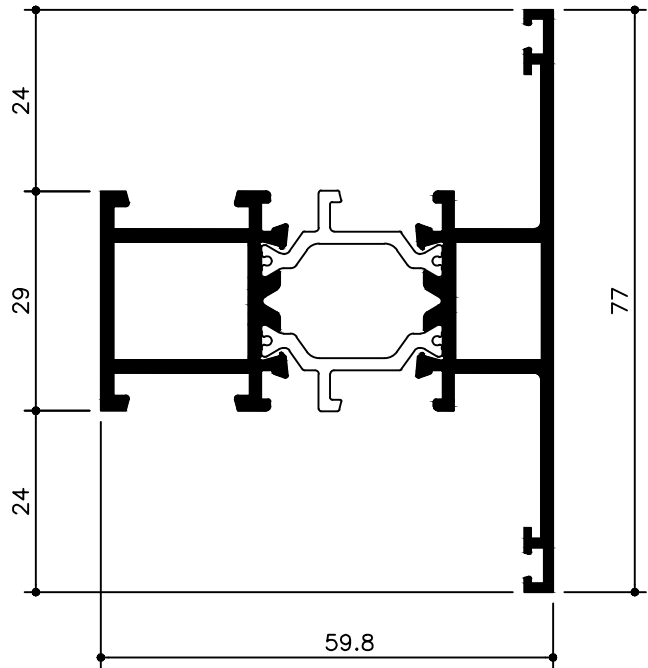
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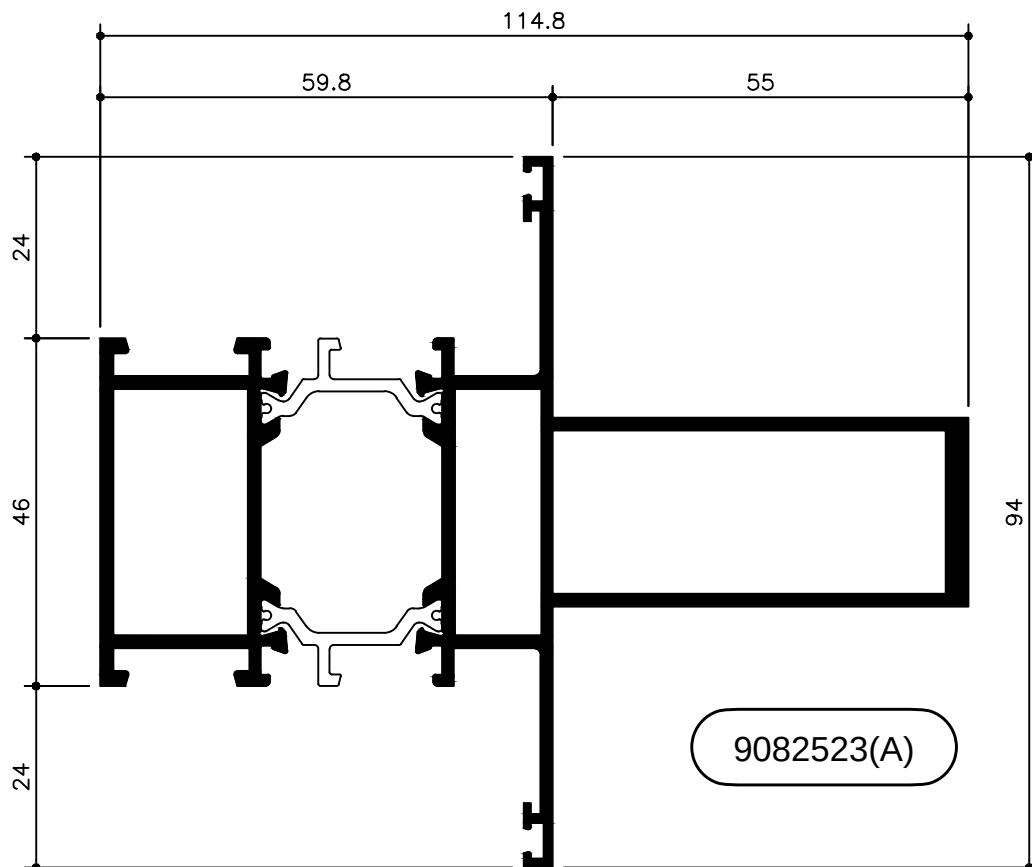
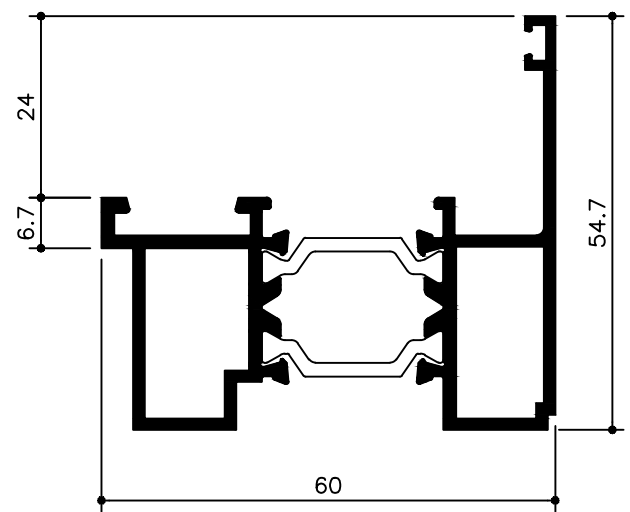
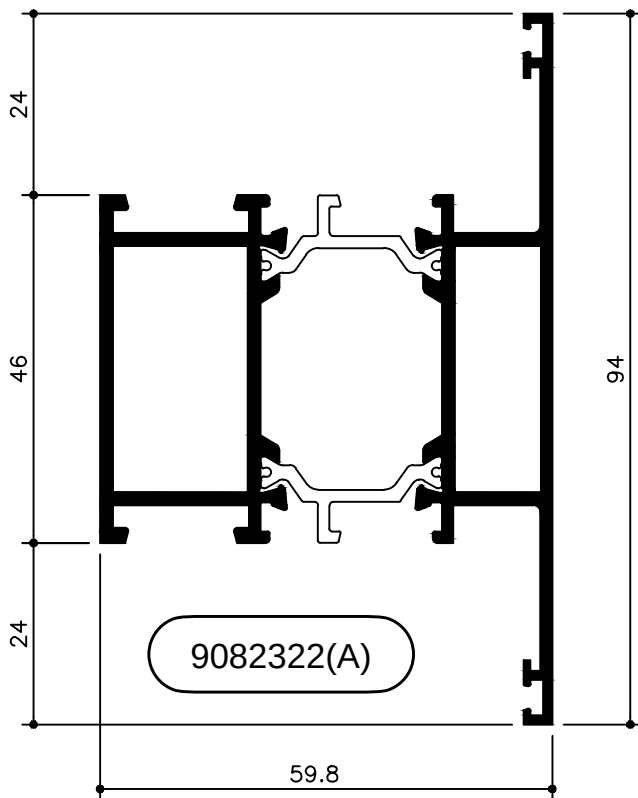
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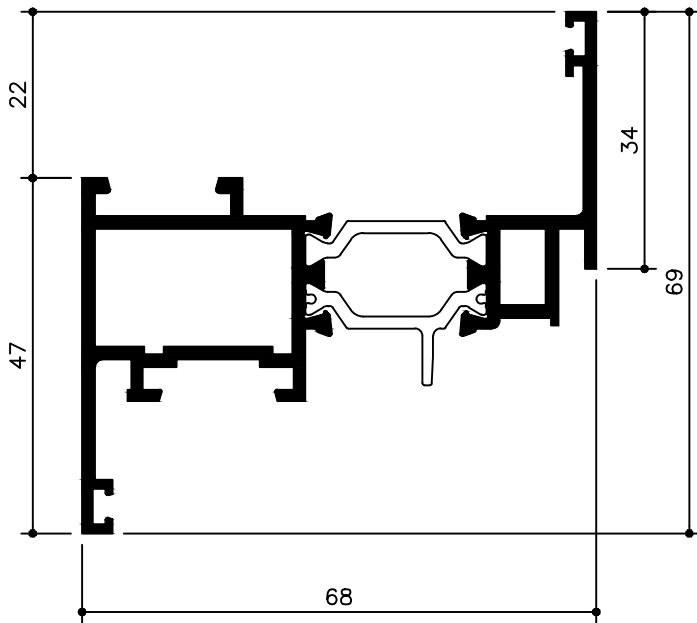


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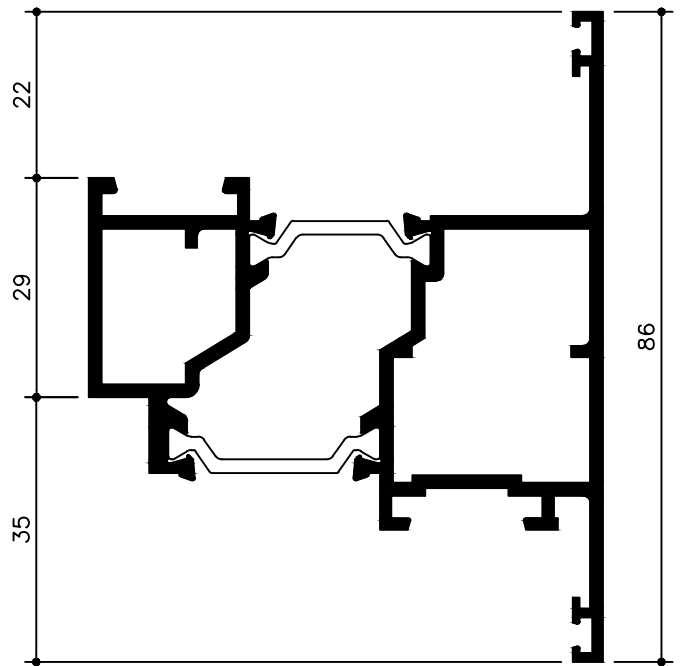


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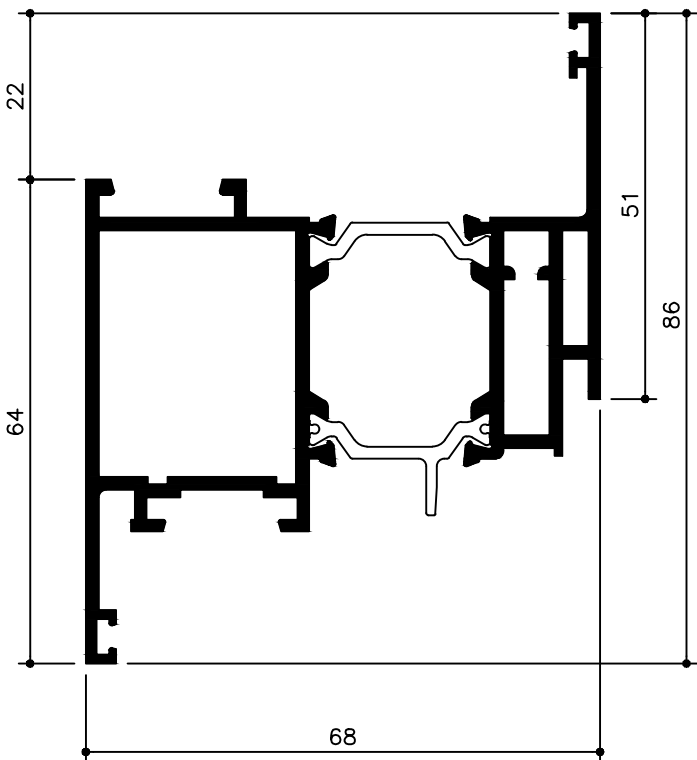




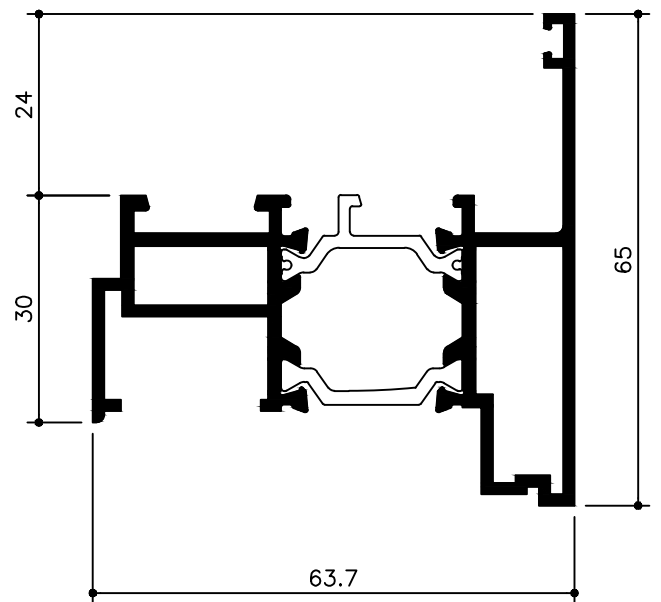
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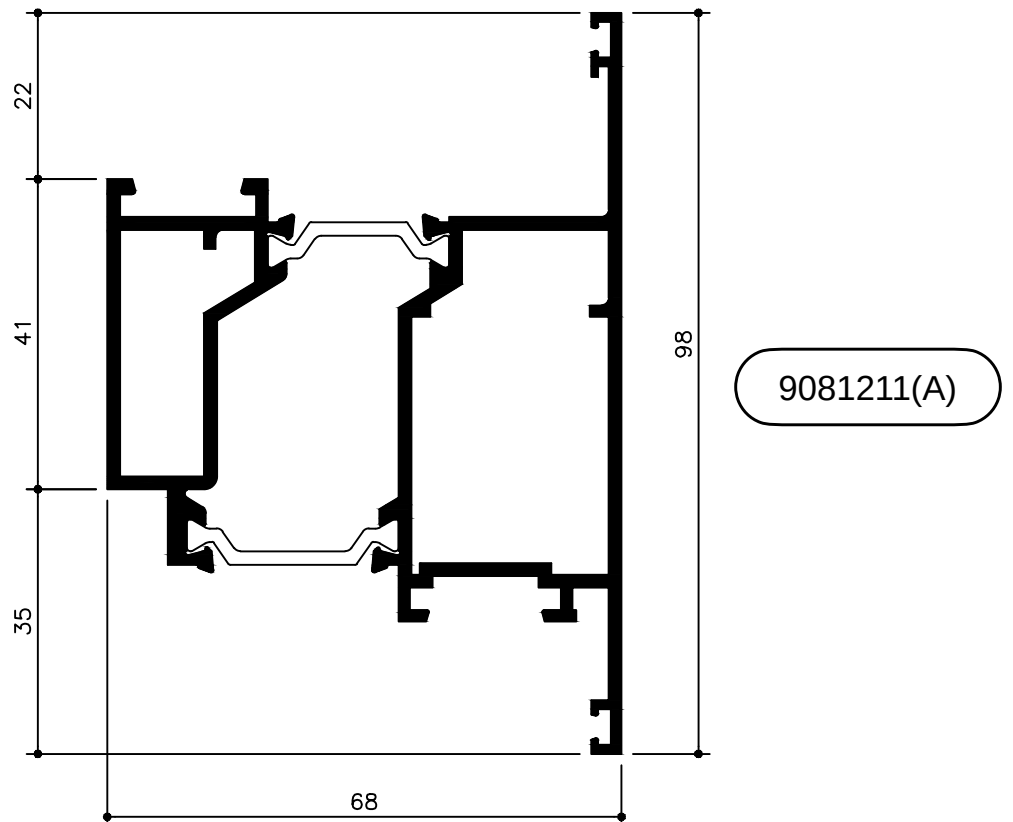
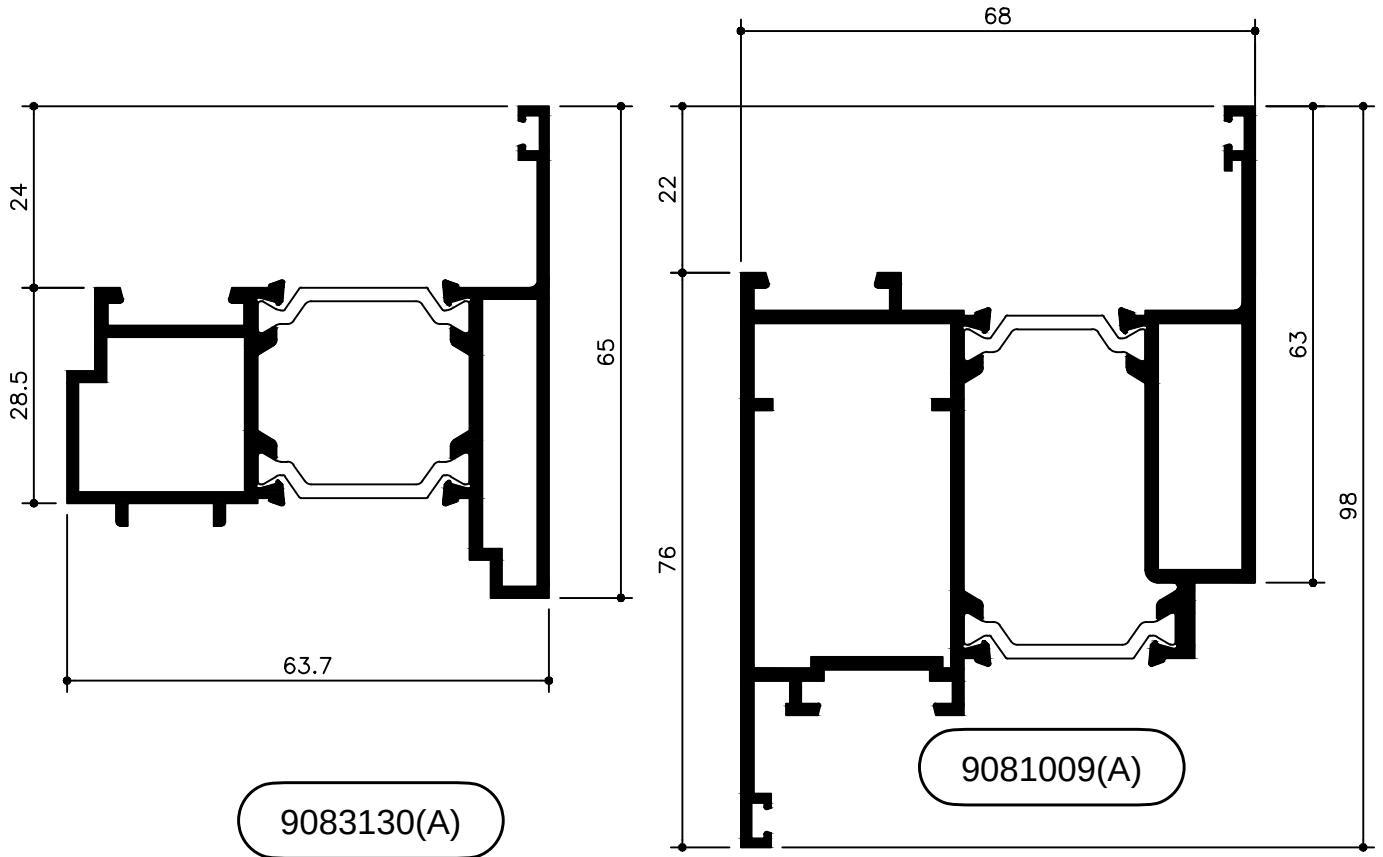
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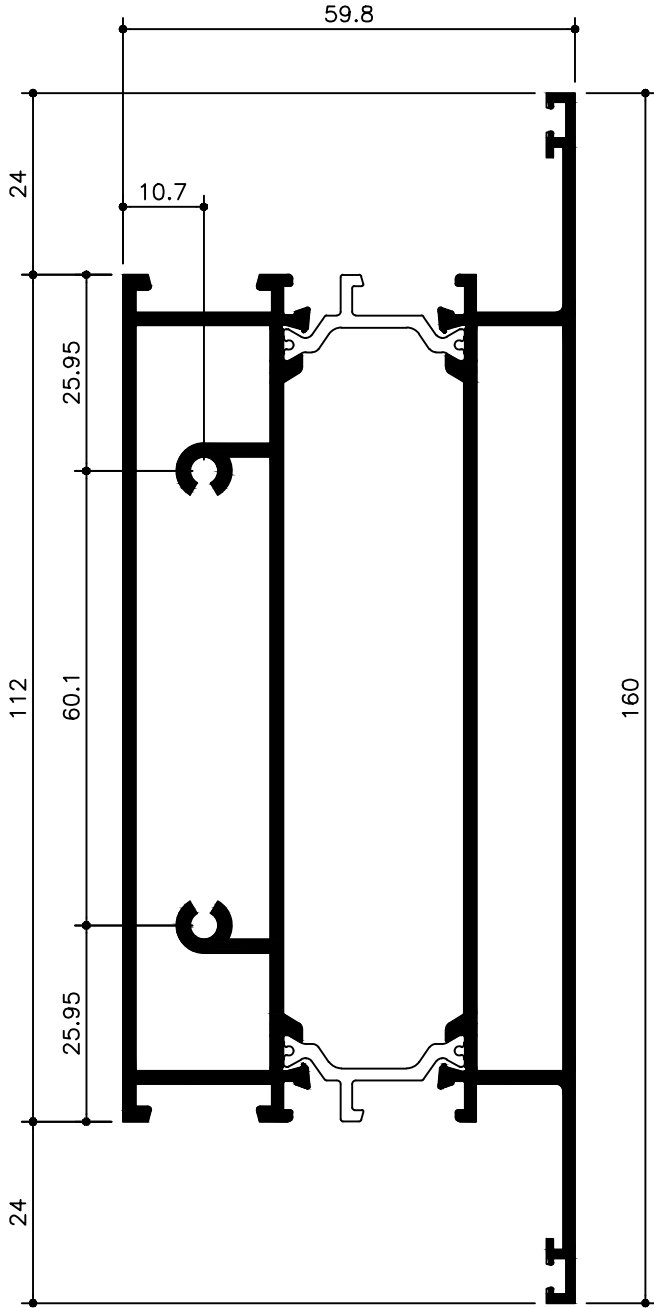


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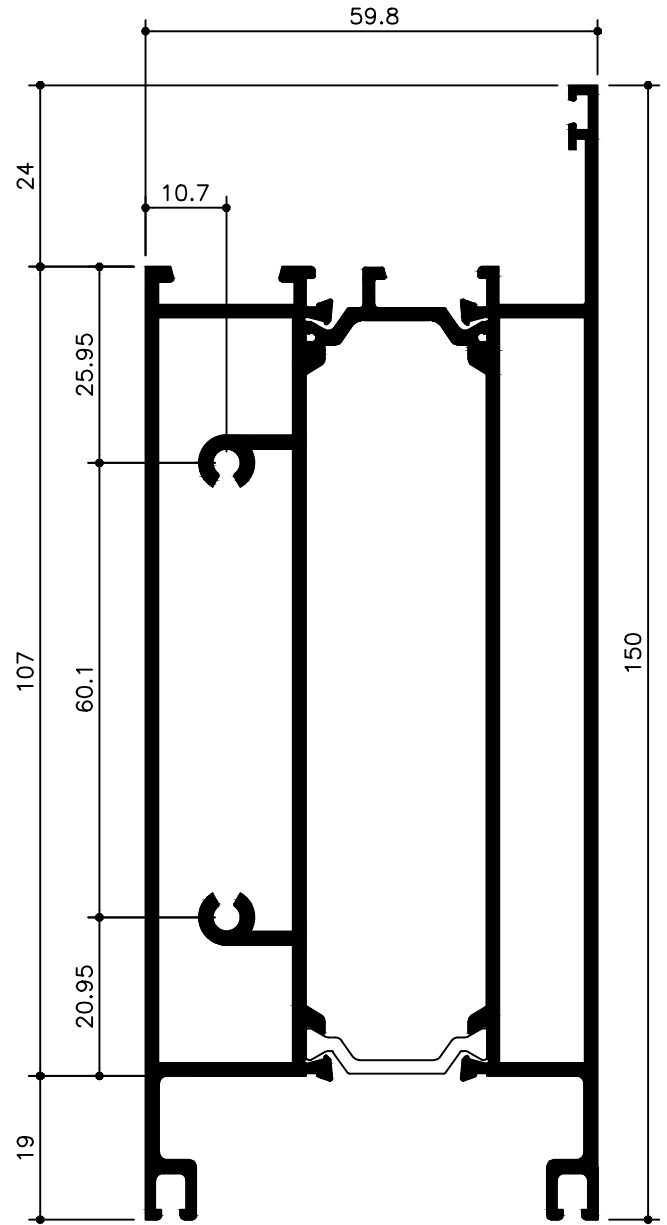


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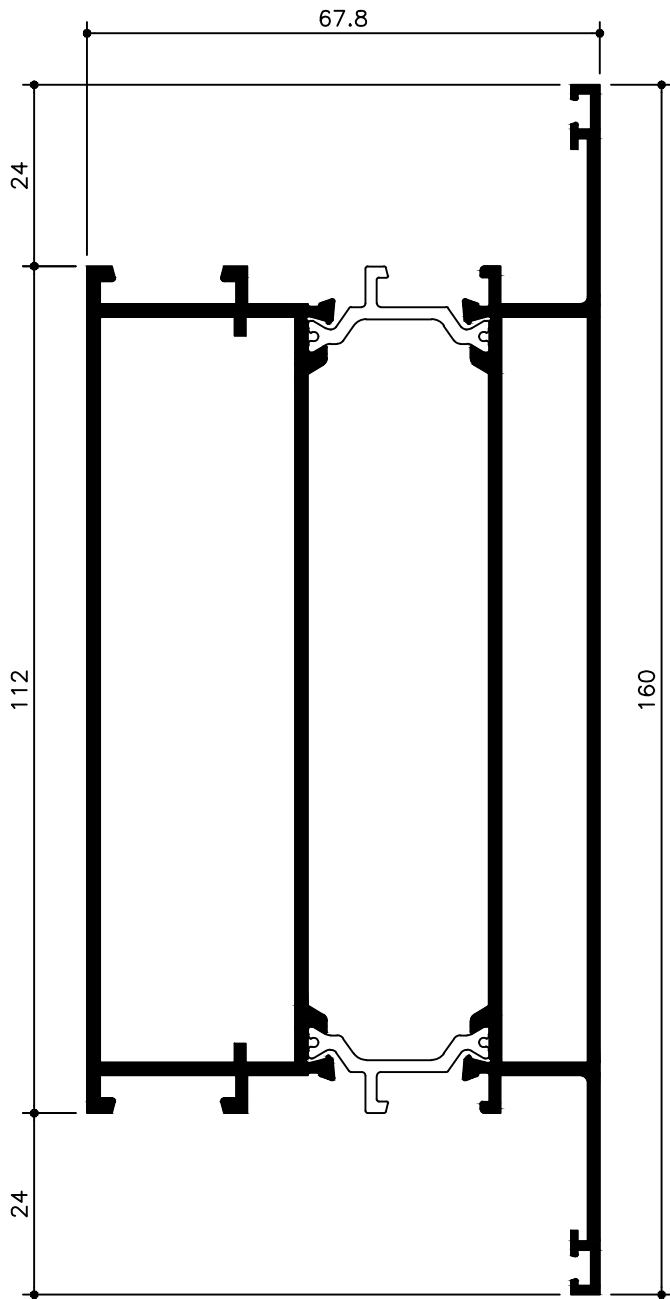




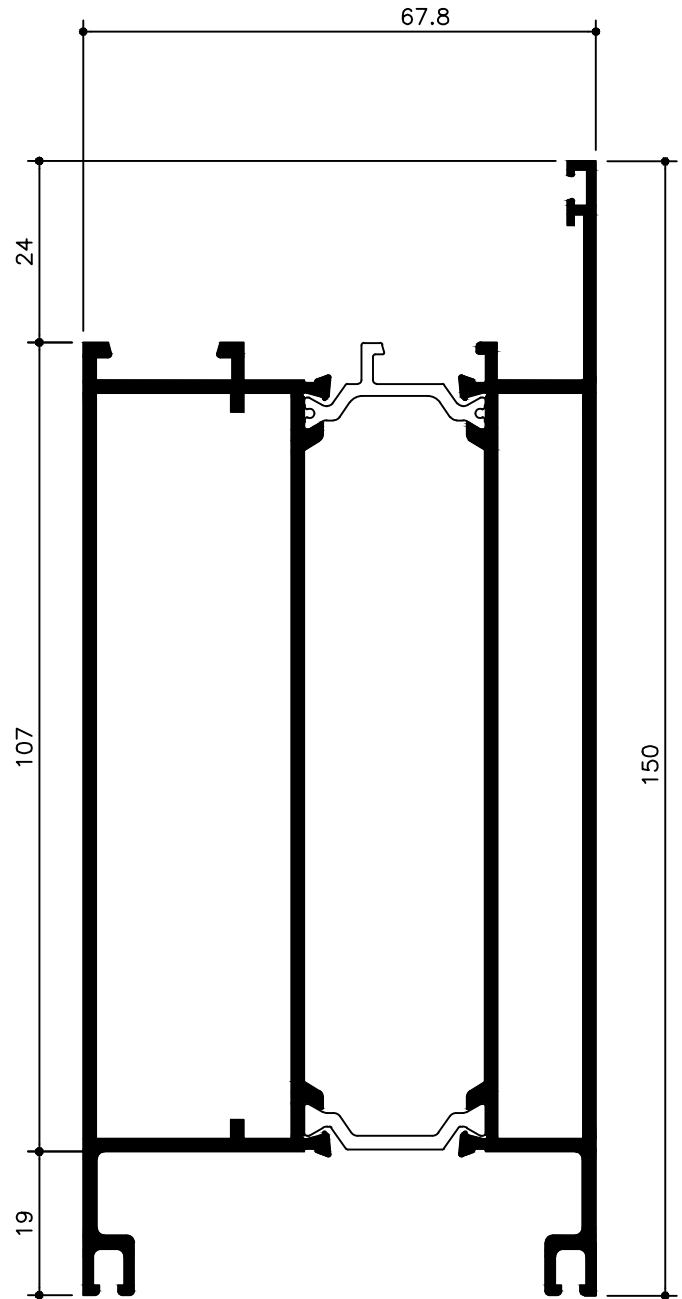
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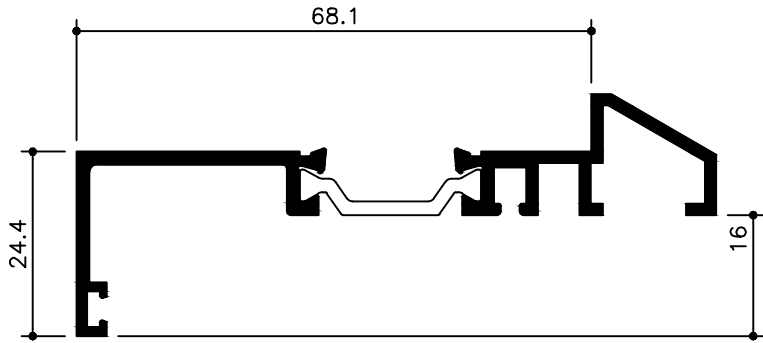
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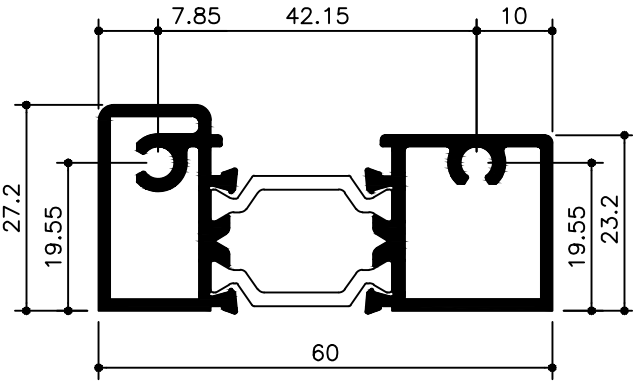
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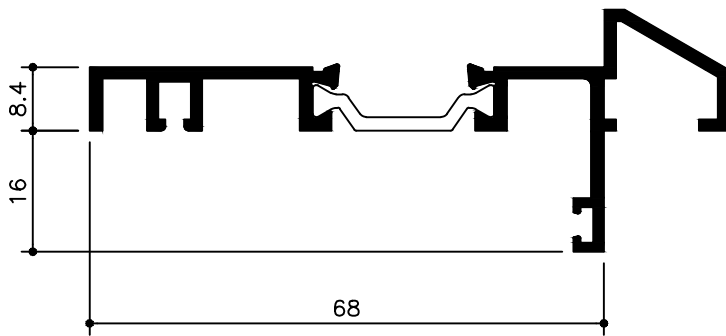
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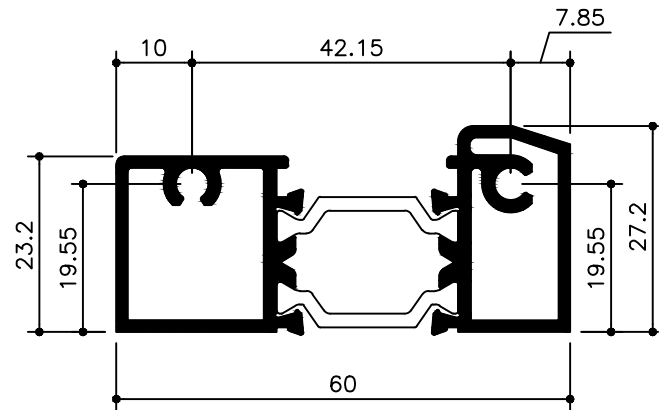
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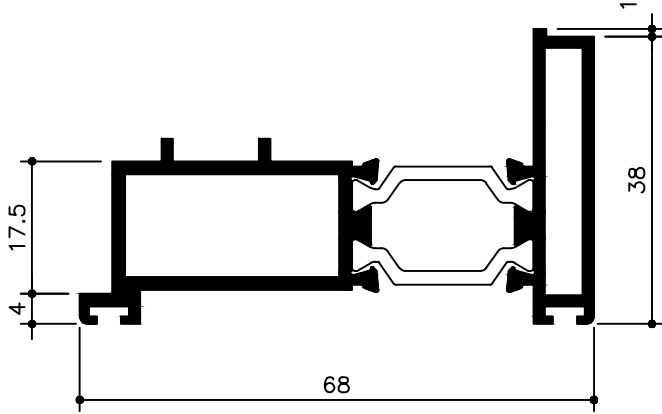
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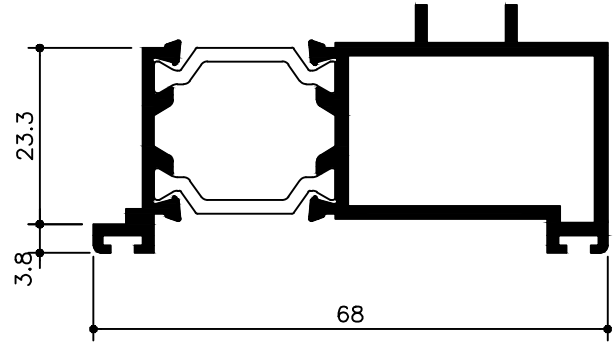
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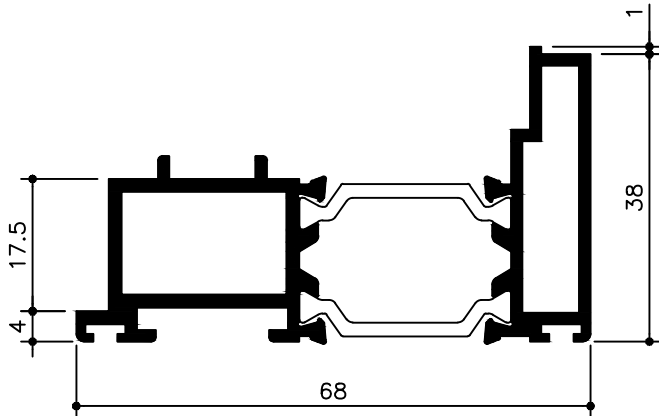
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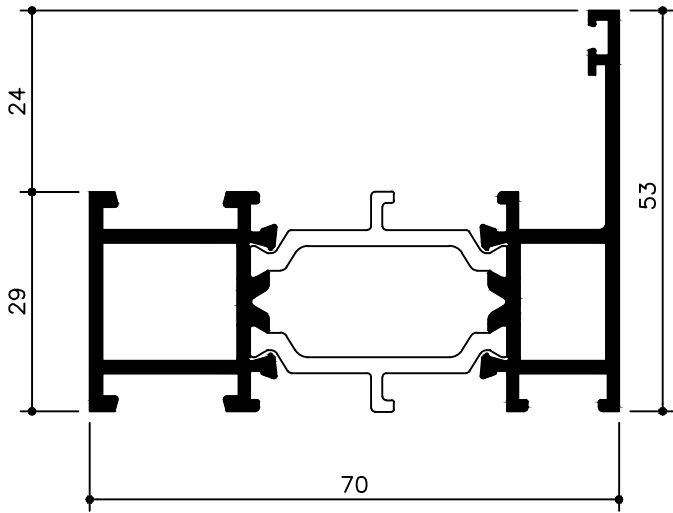
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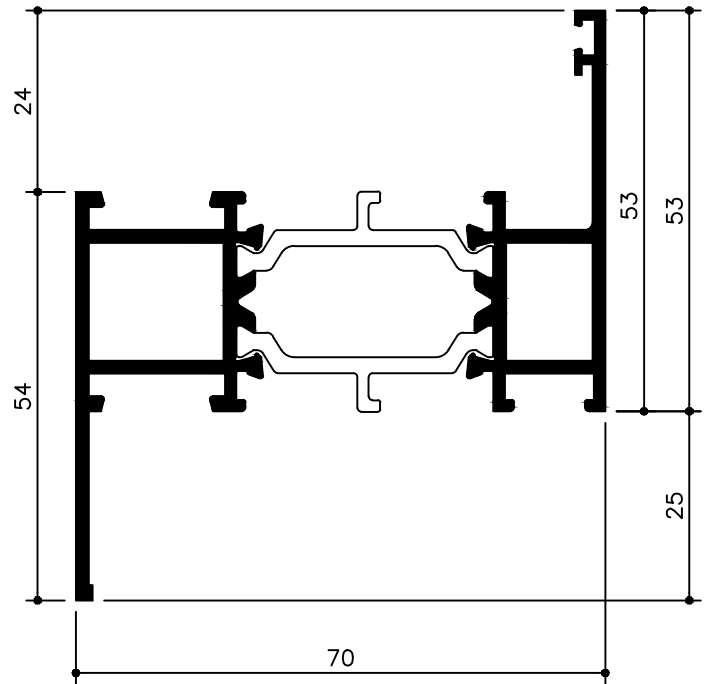
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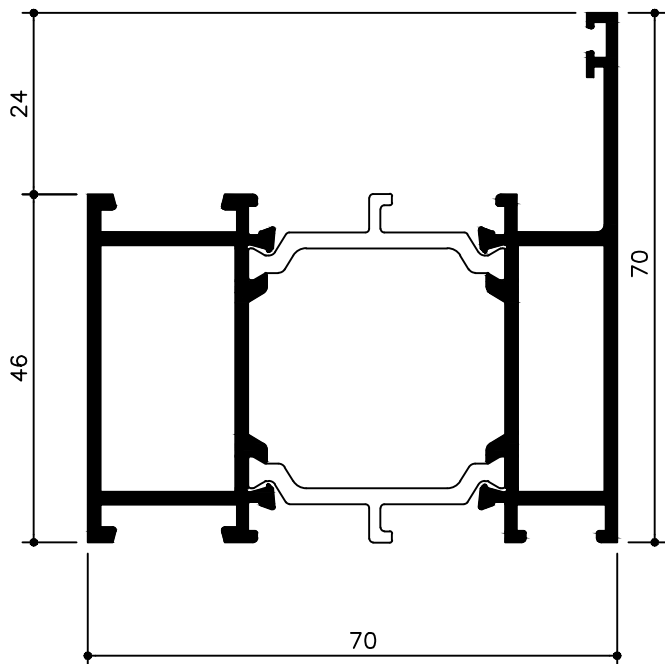
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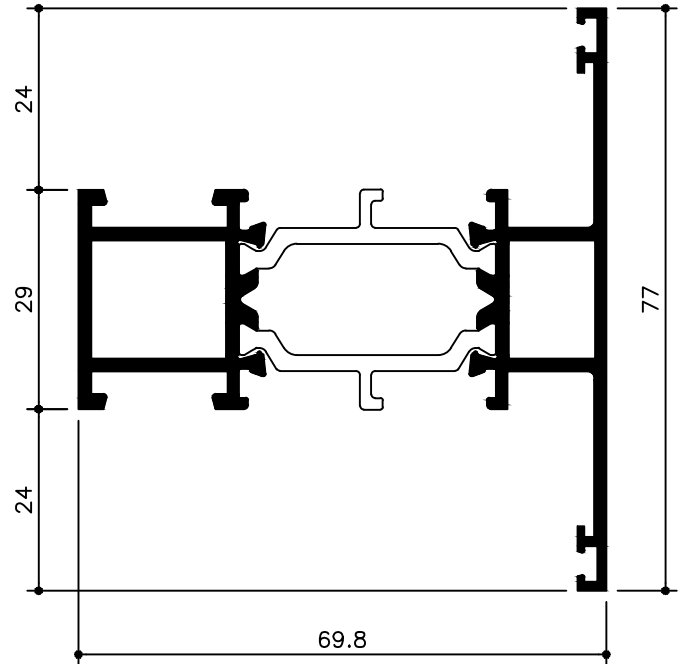
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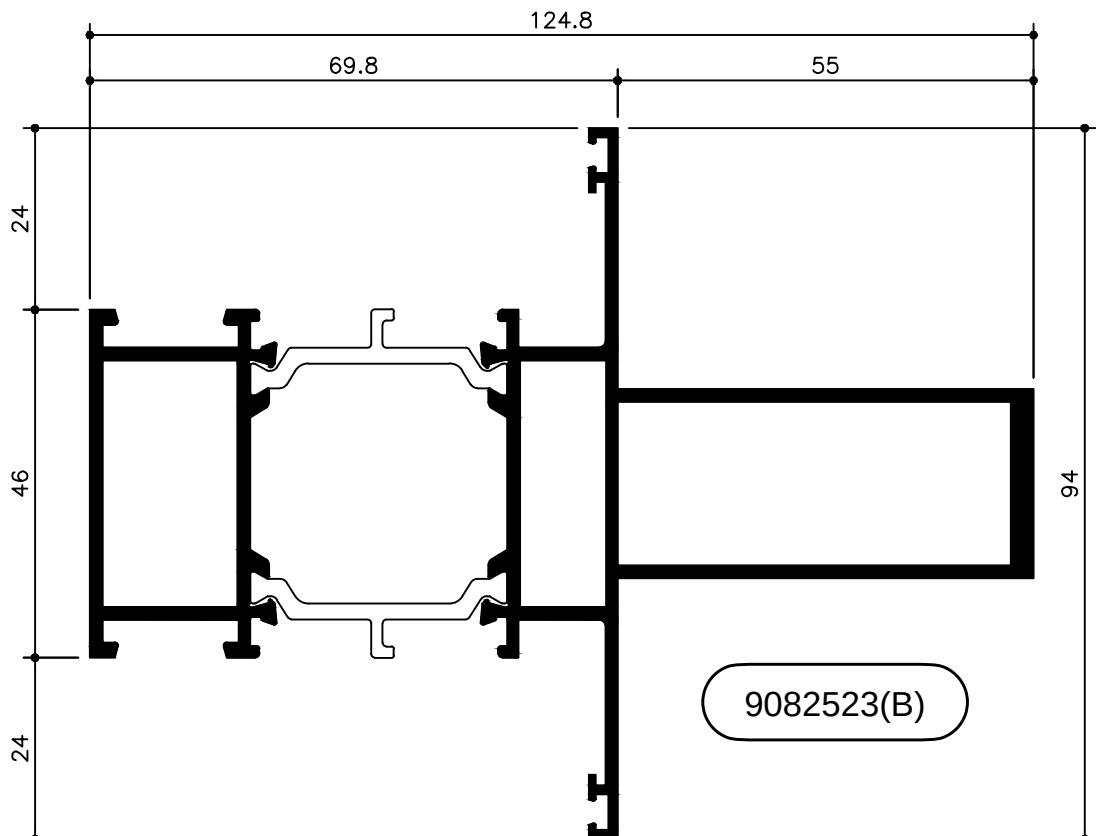
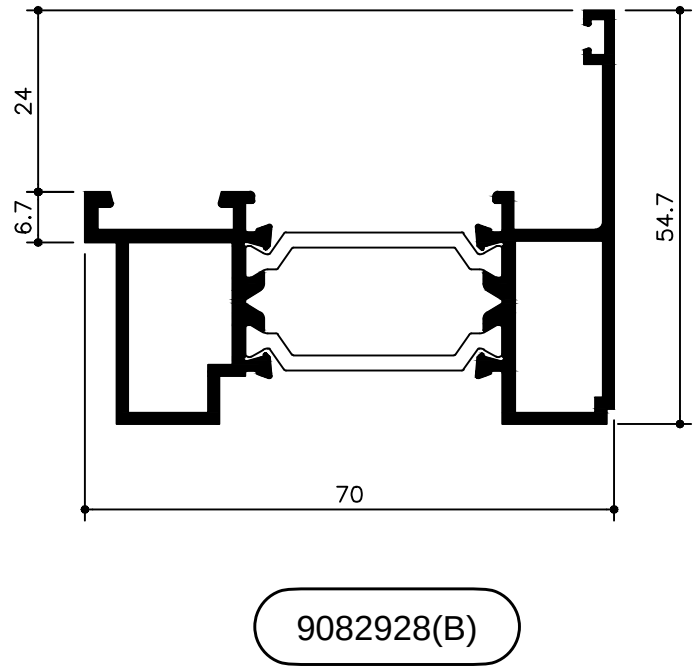
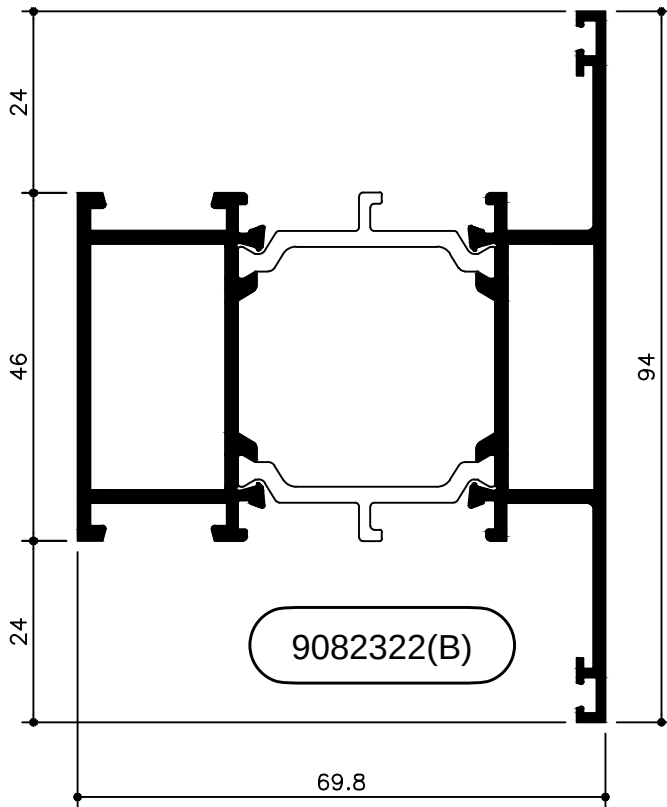
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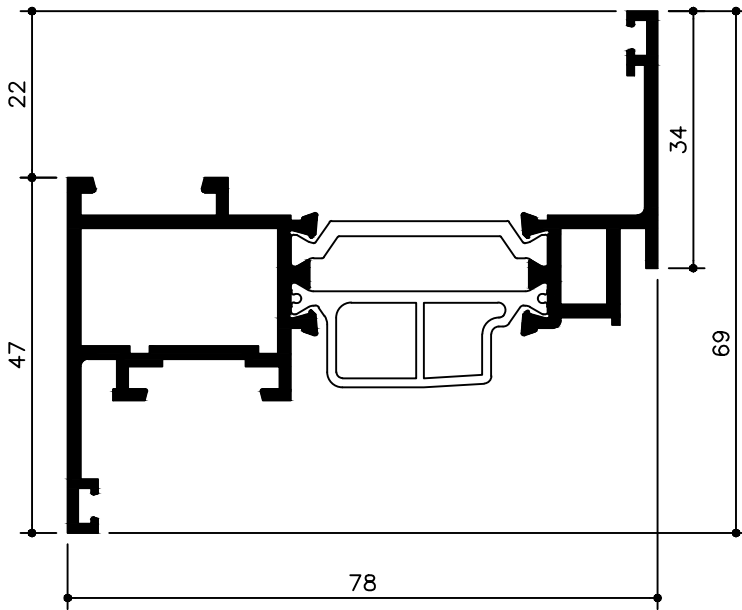


9082423(B)

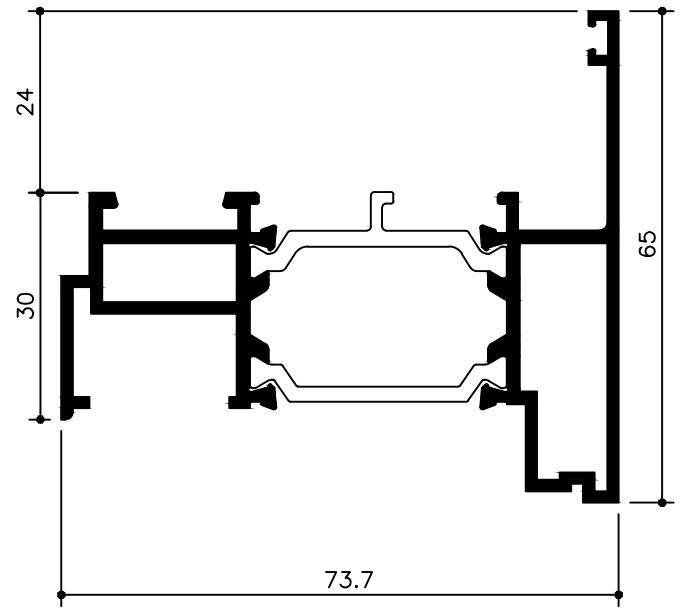


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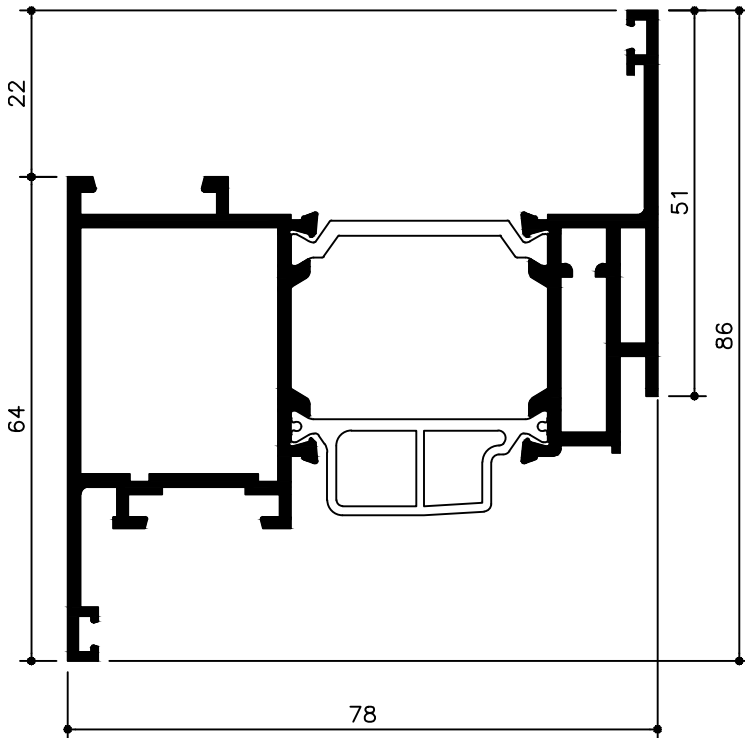




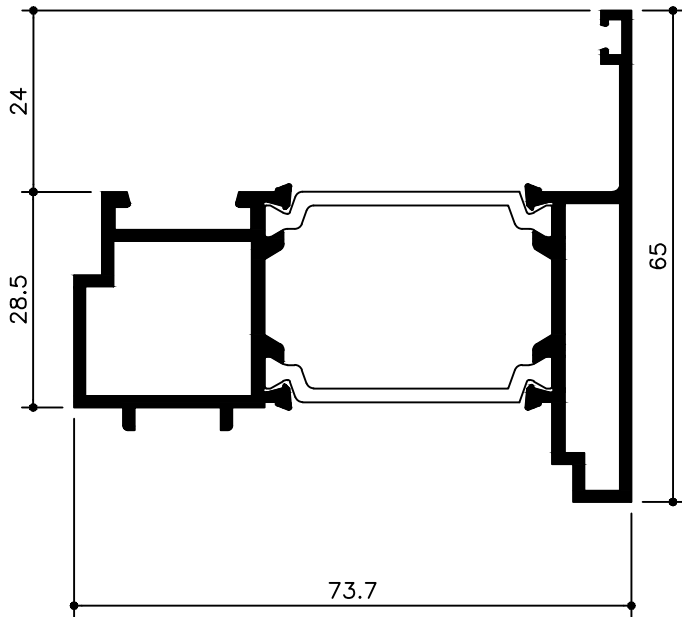
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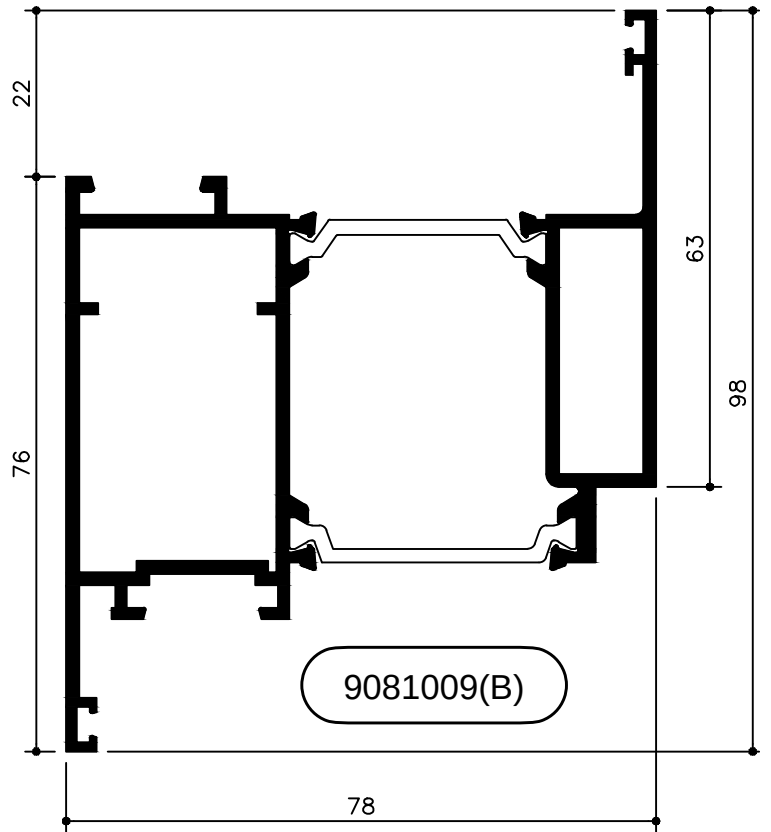
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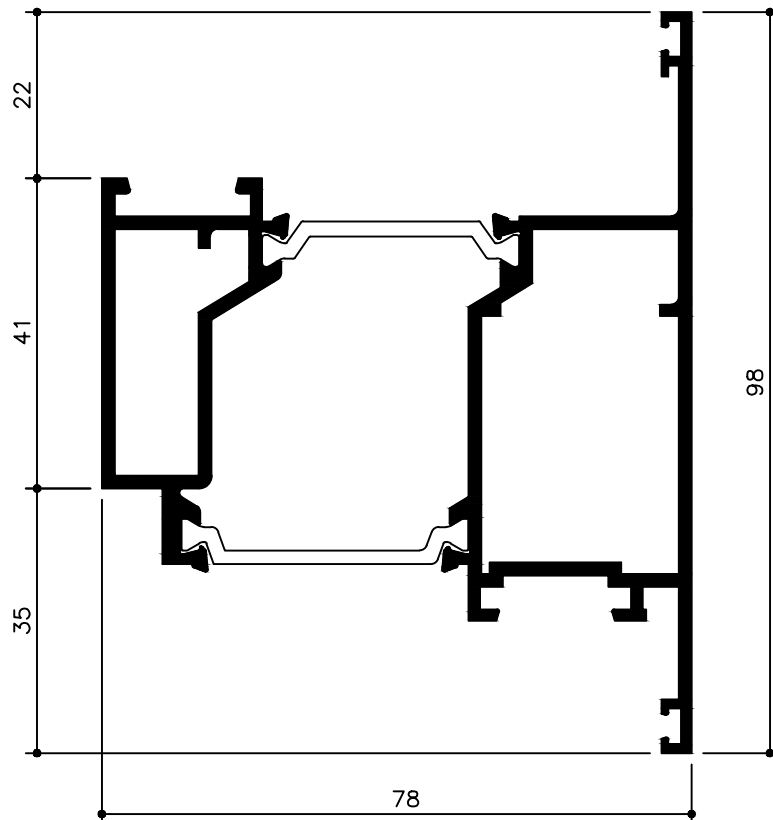
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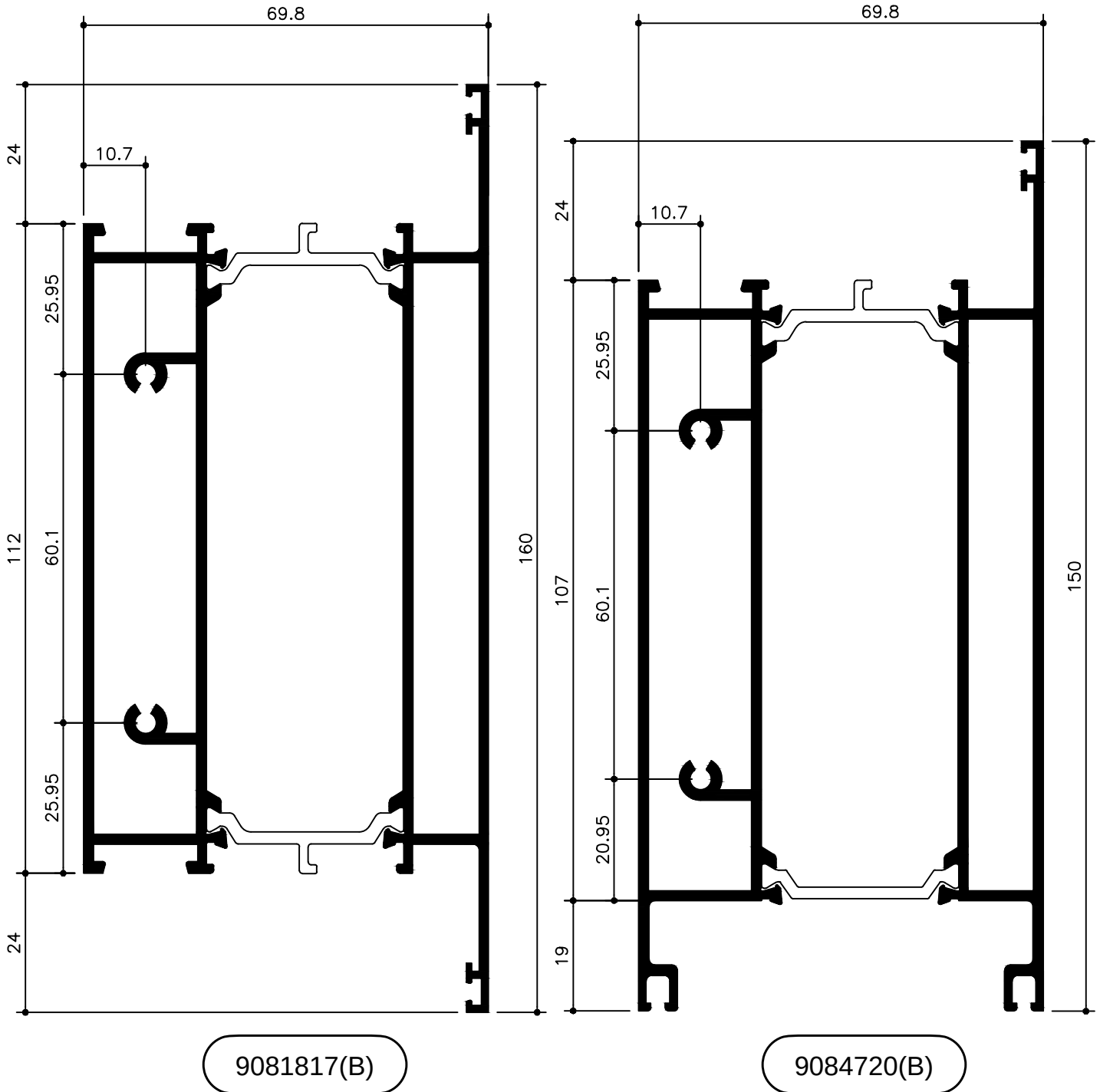
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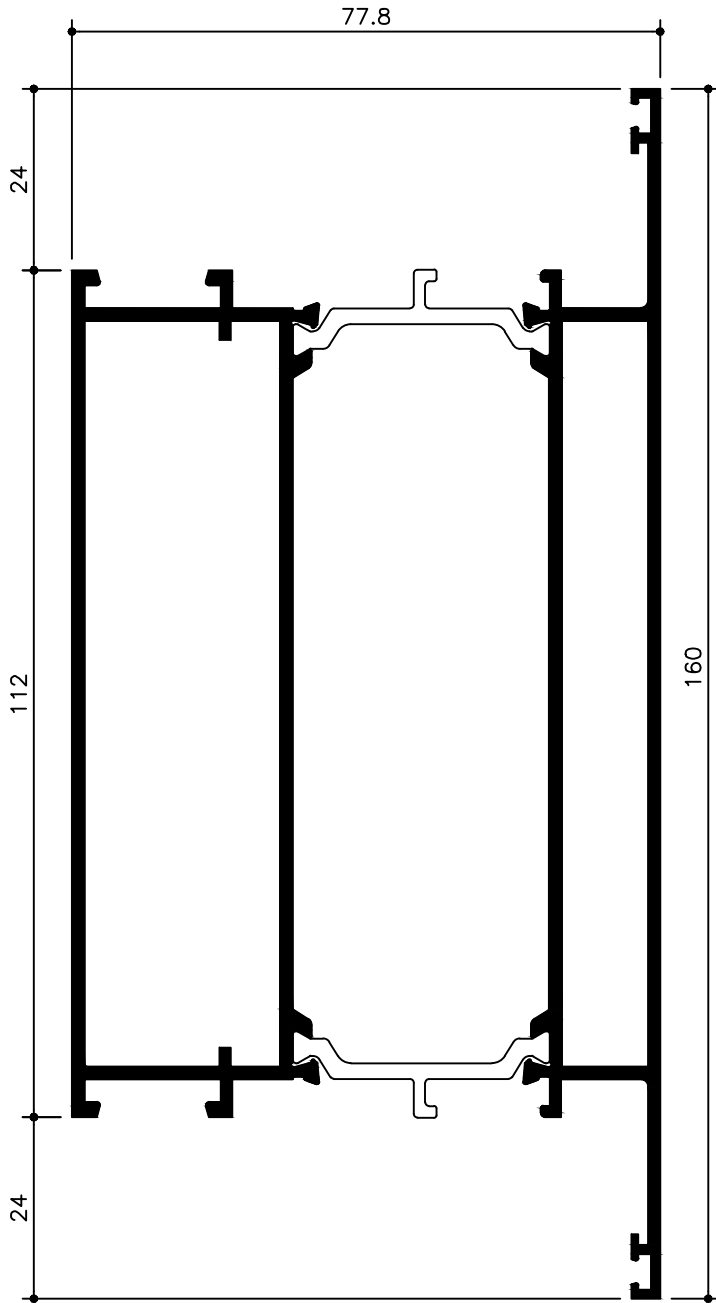


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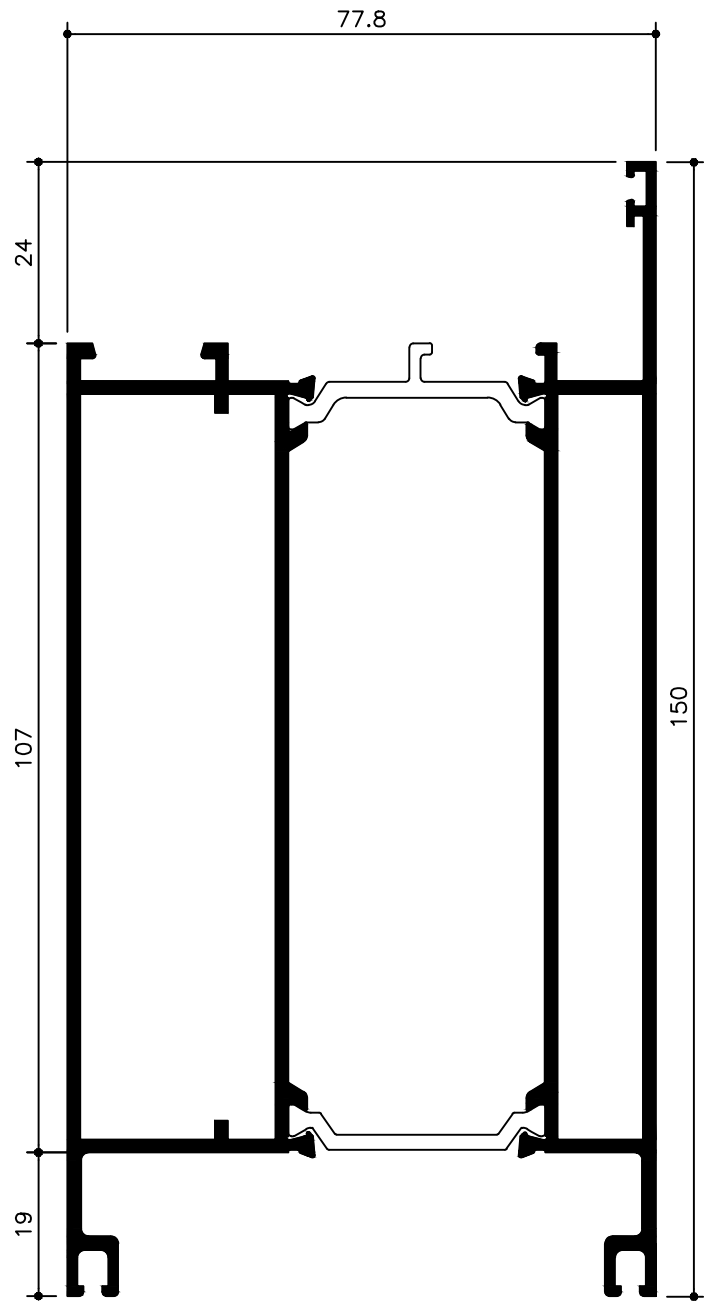


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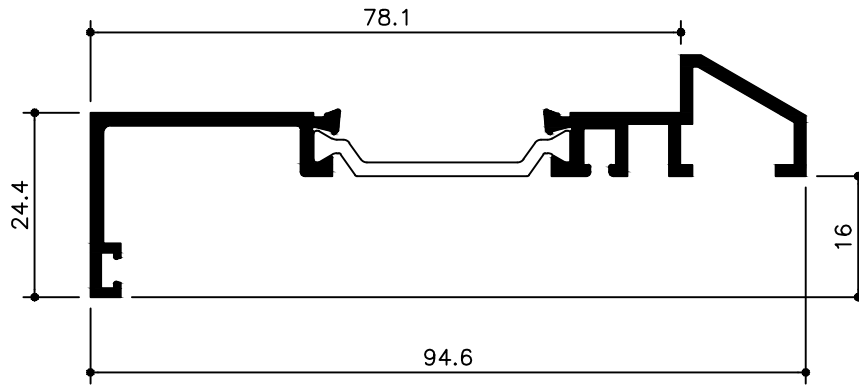




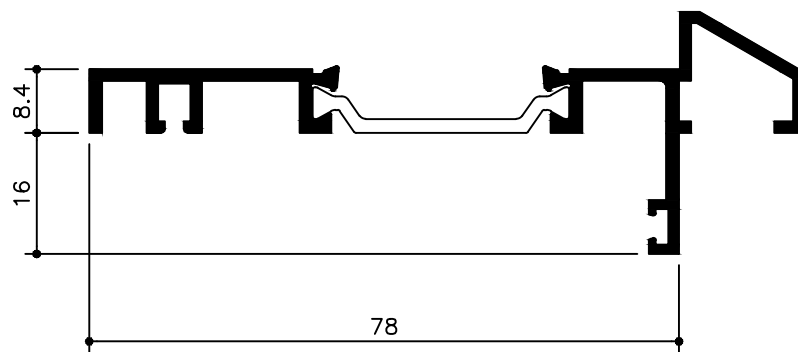
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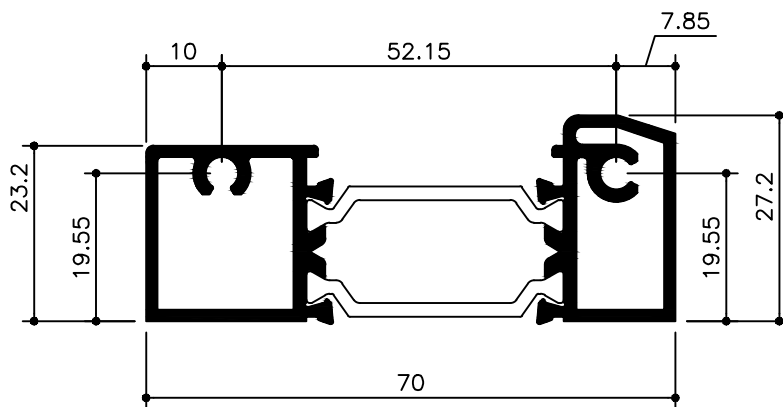
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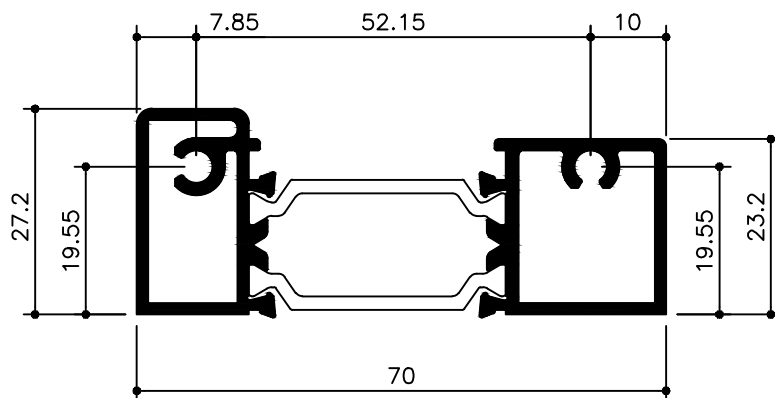
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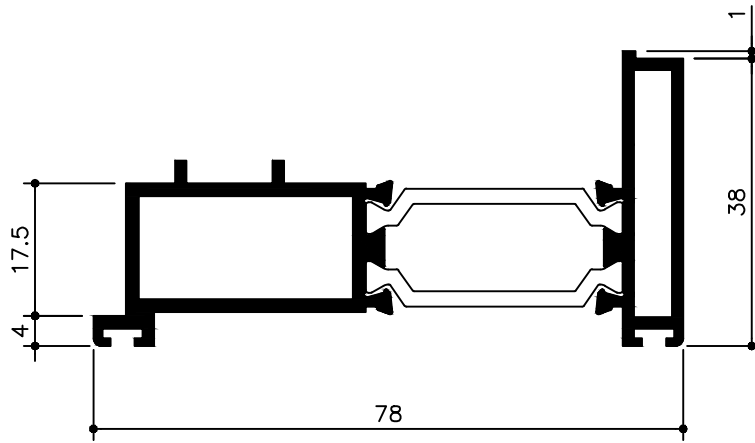
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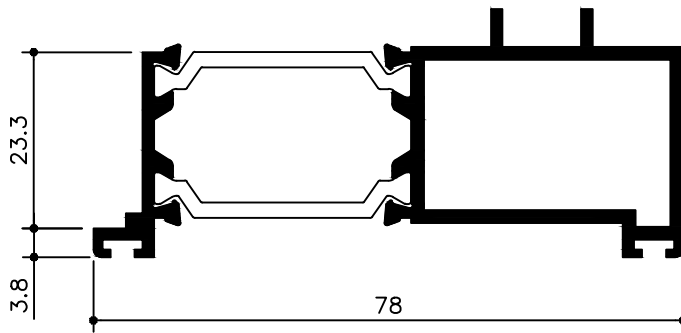
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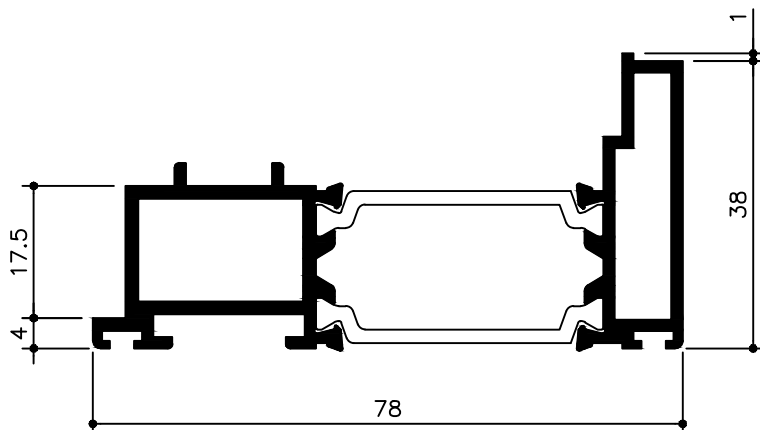
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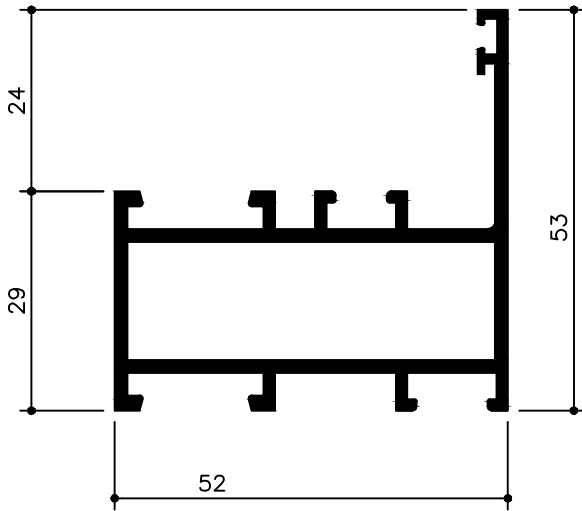
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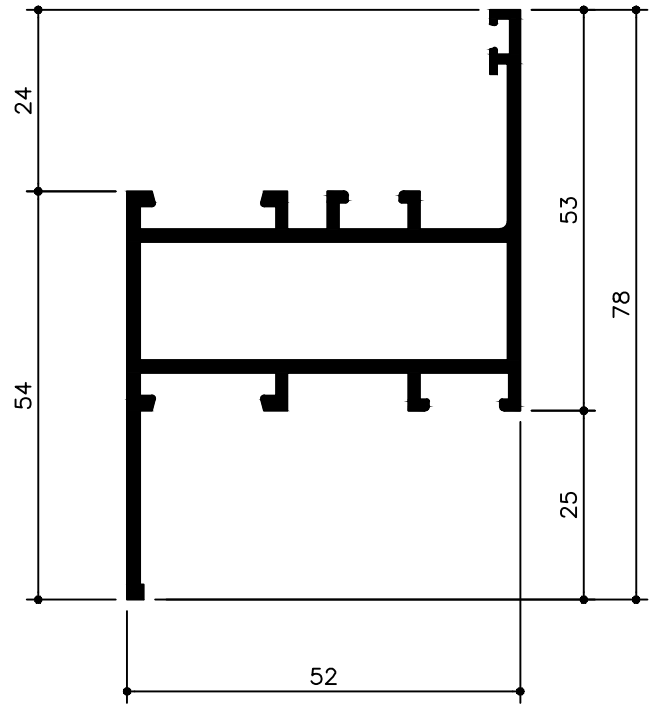
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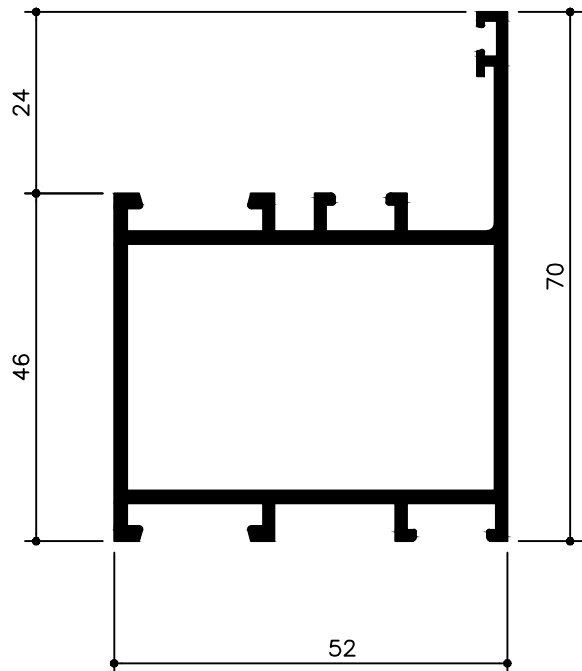
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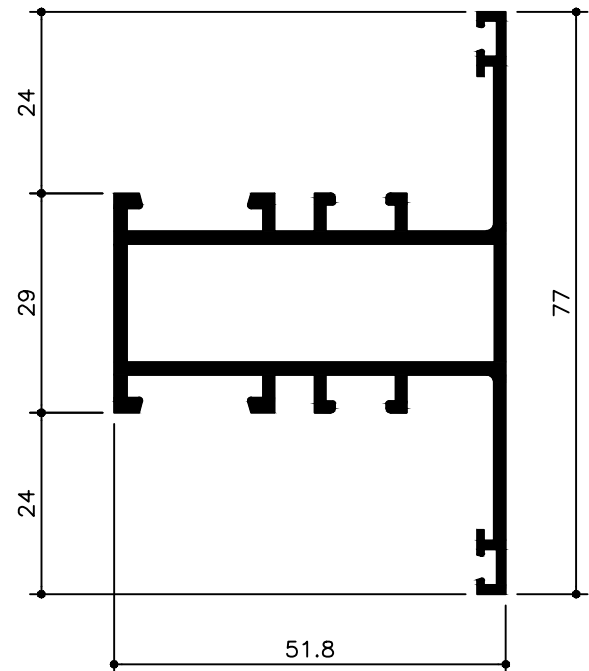
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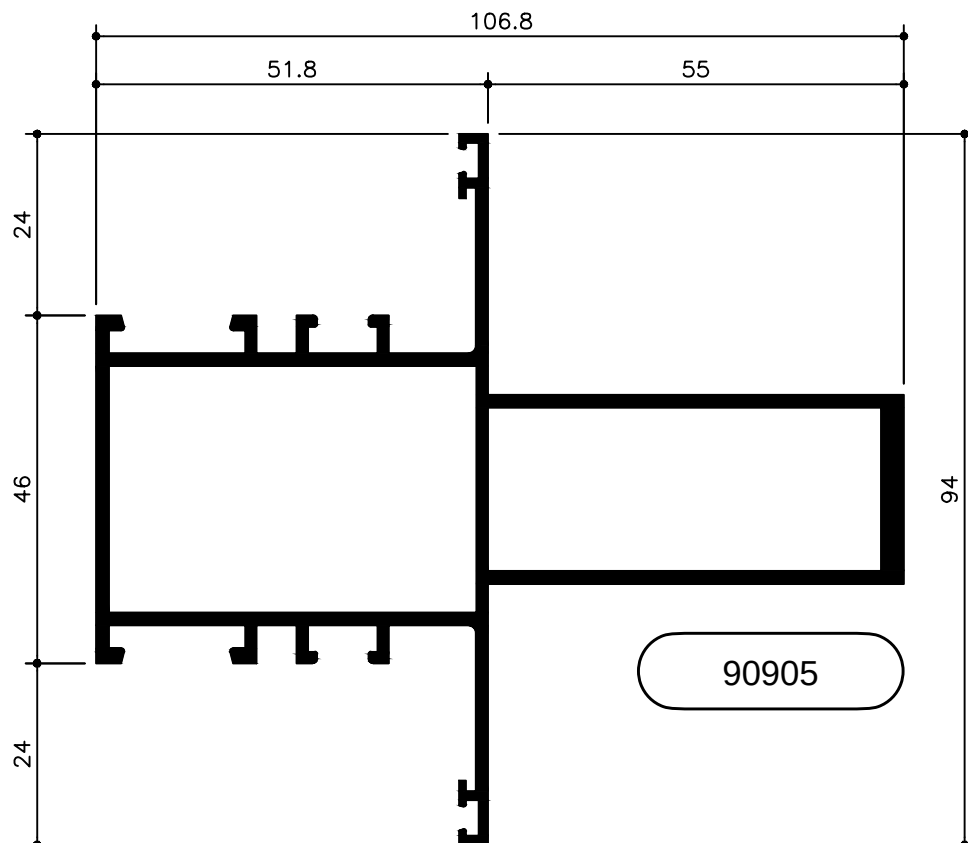
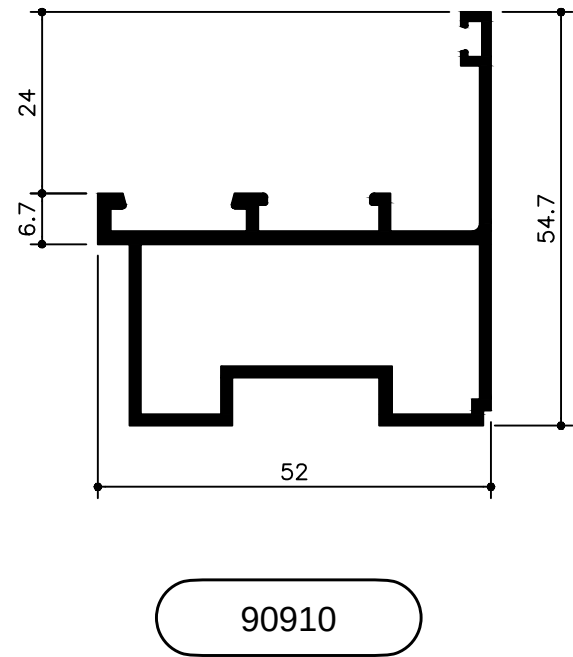
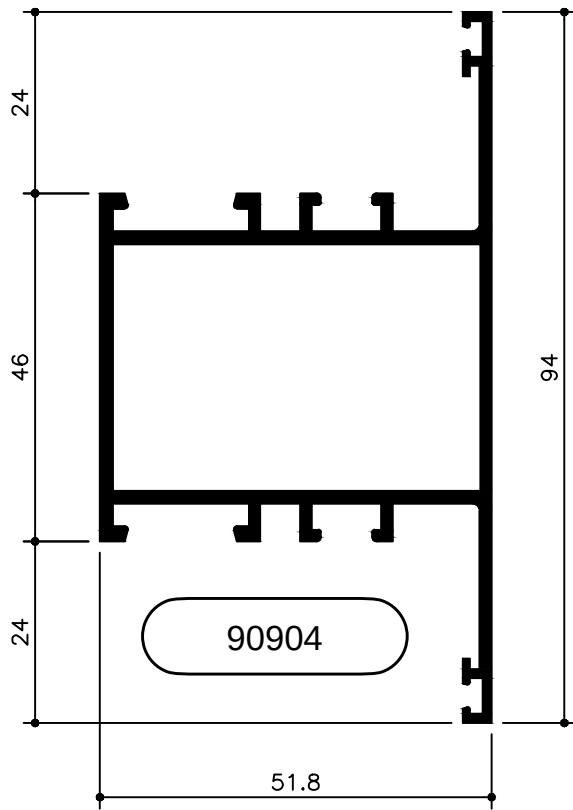
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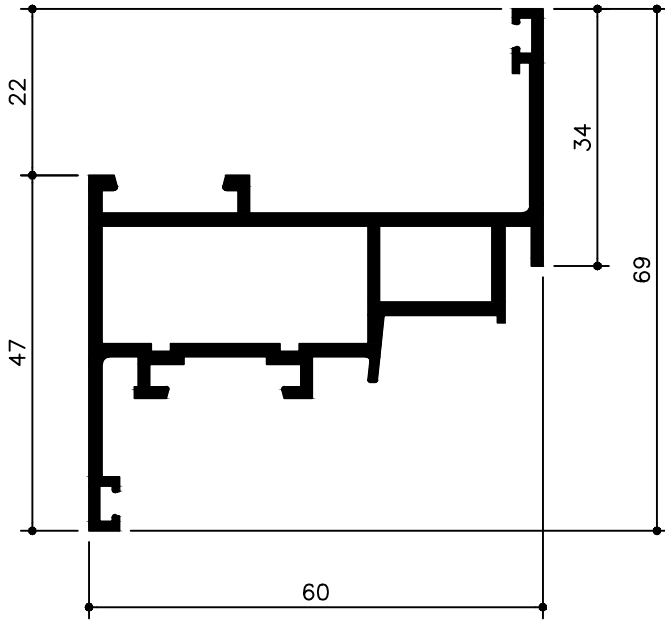


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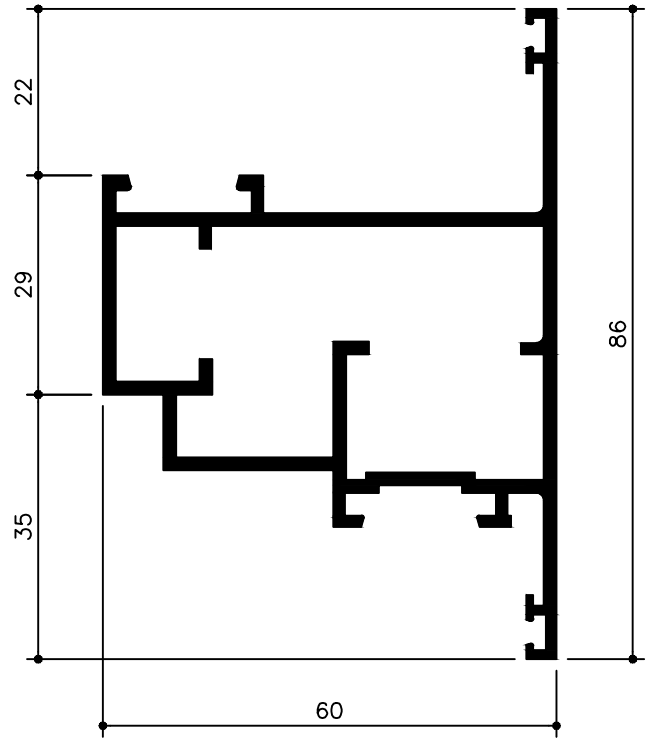


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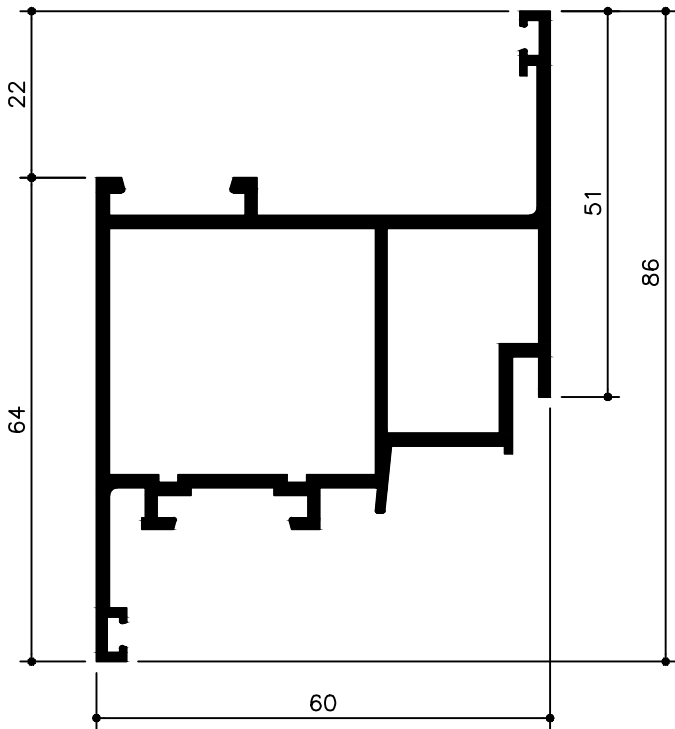




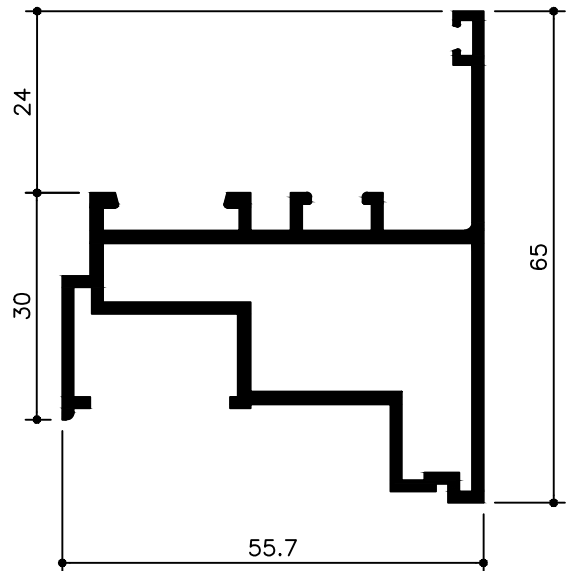
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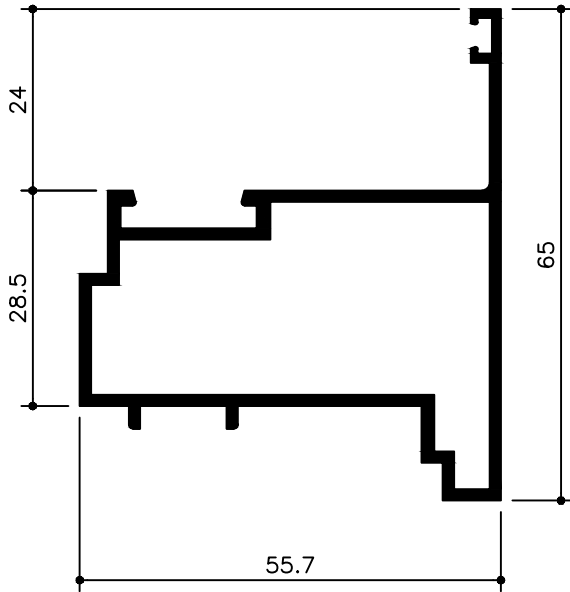
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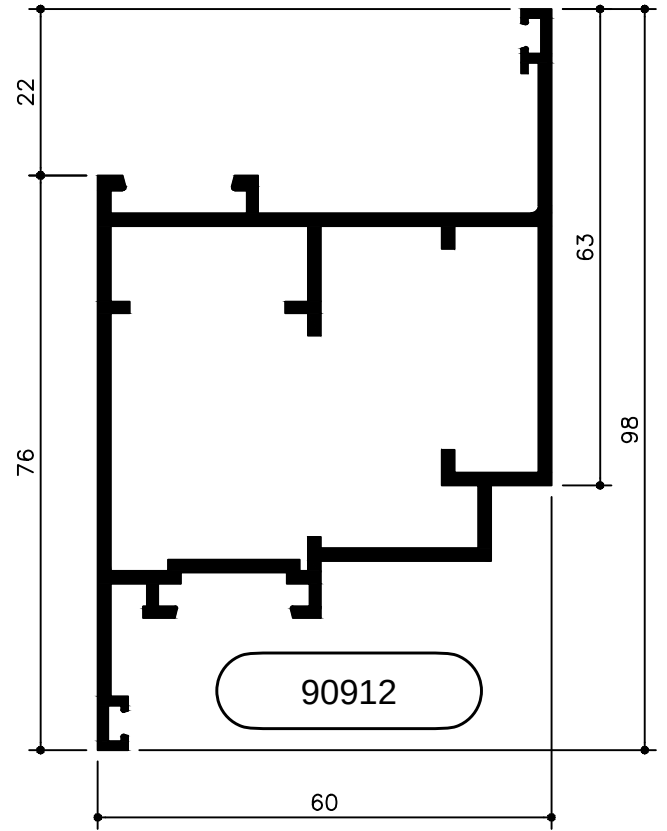
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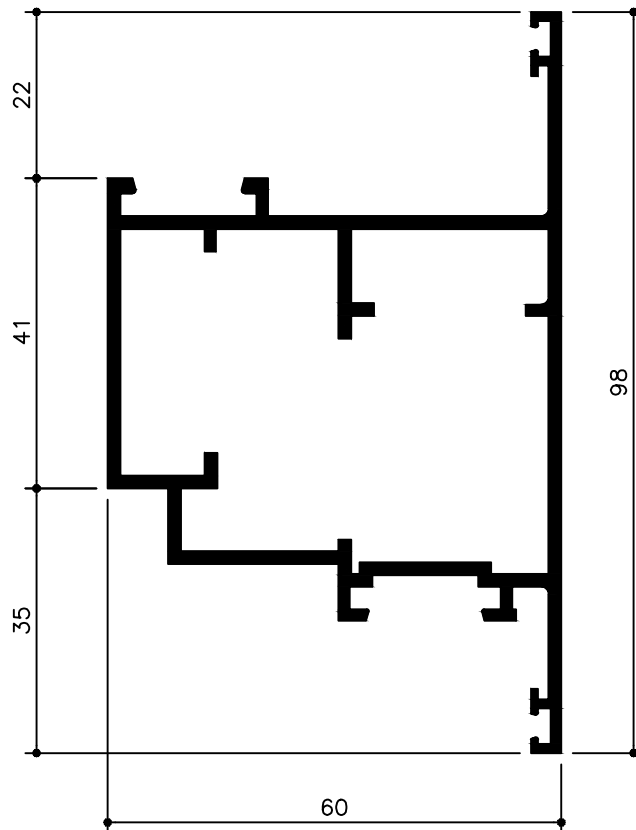
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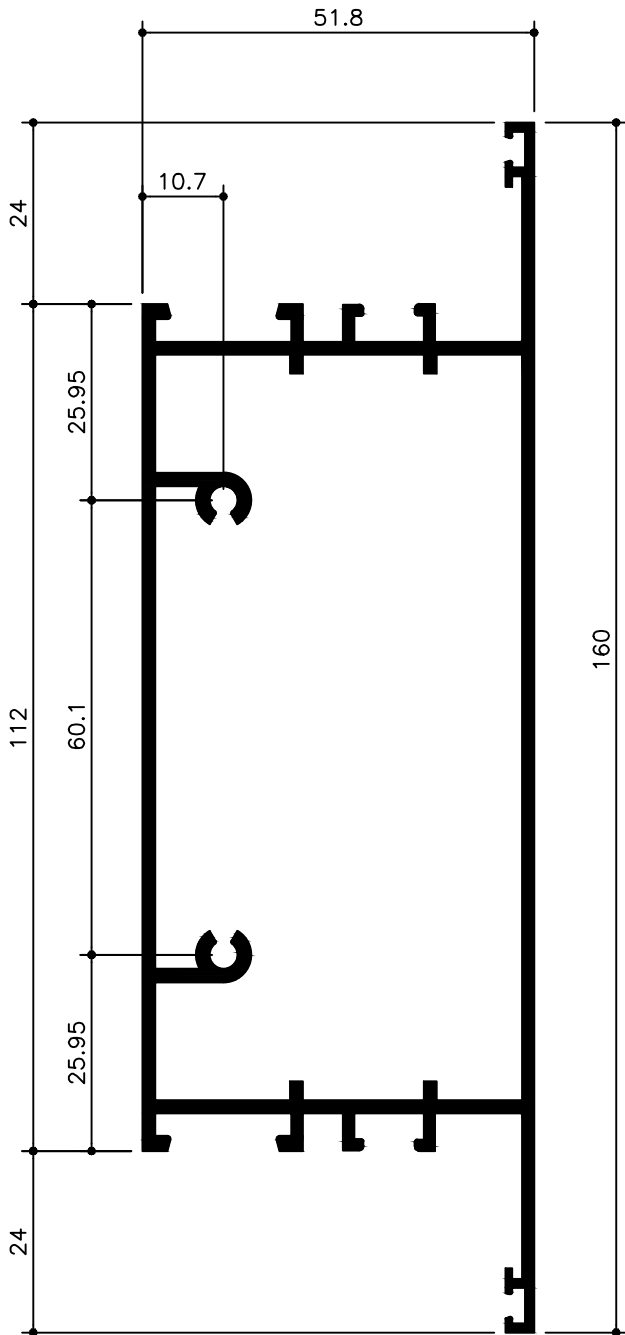
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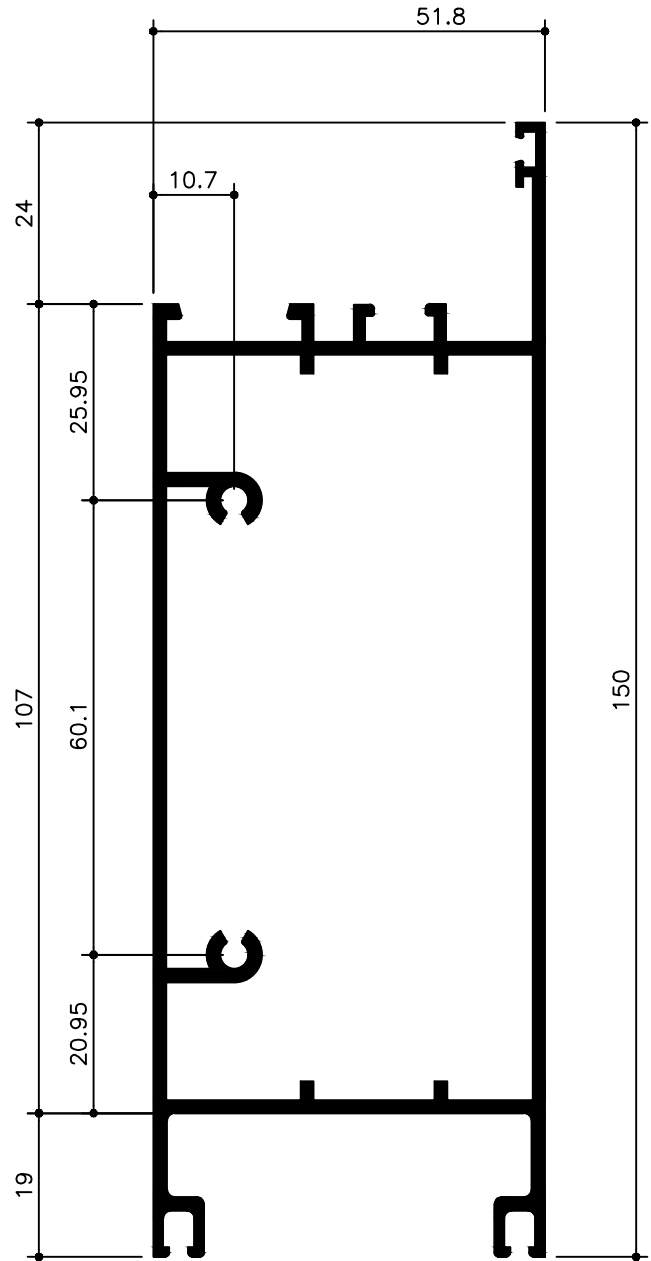
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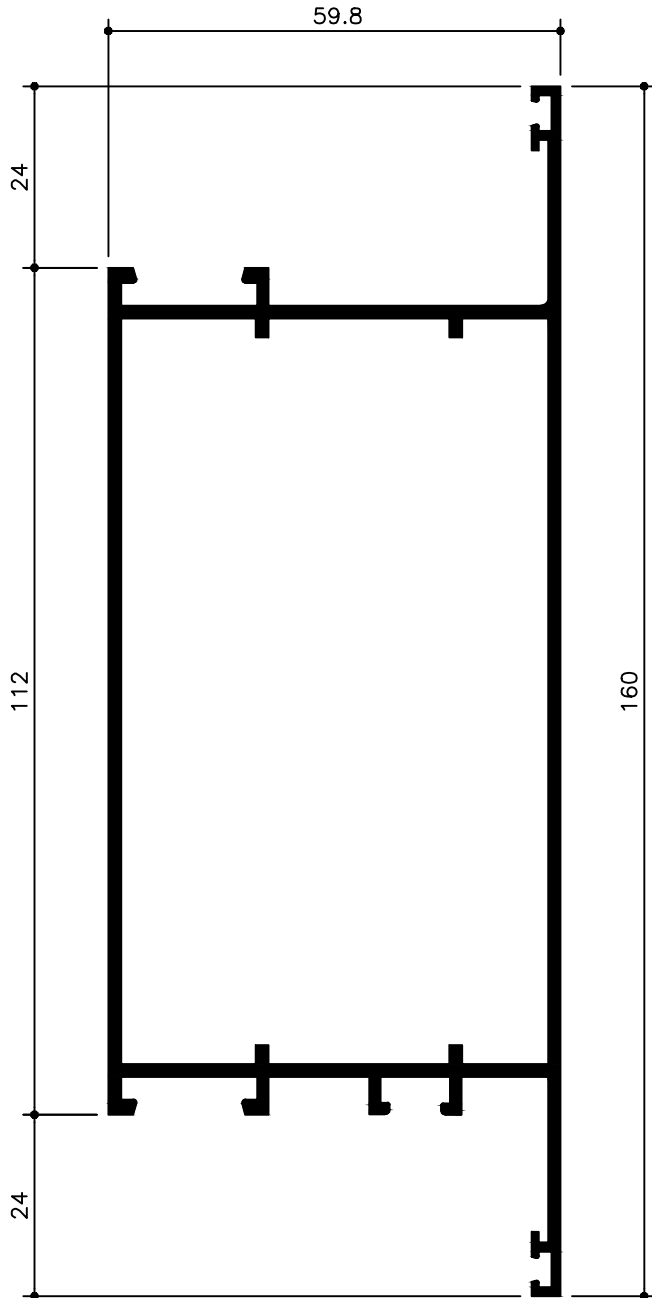
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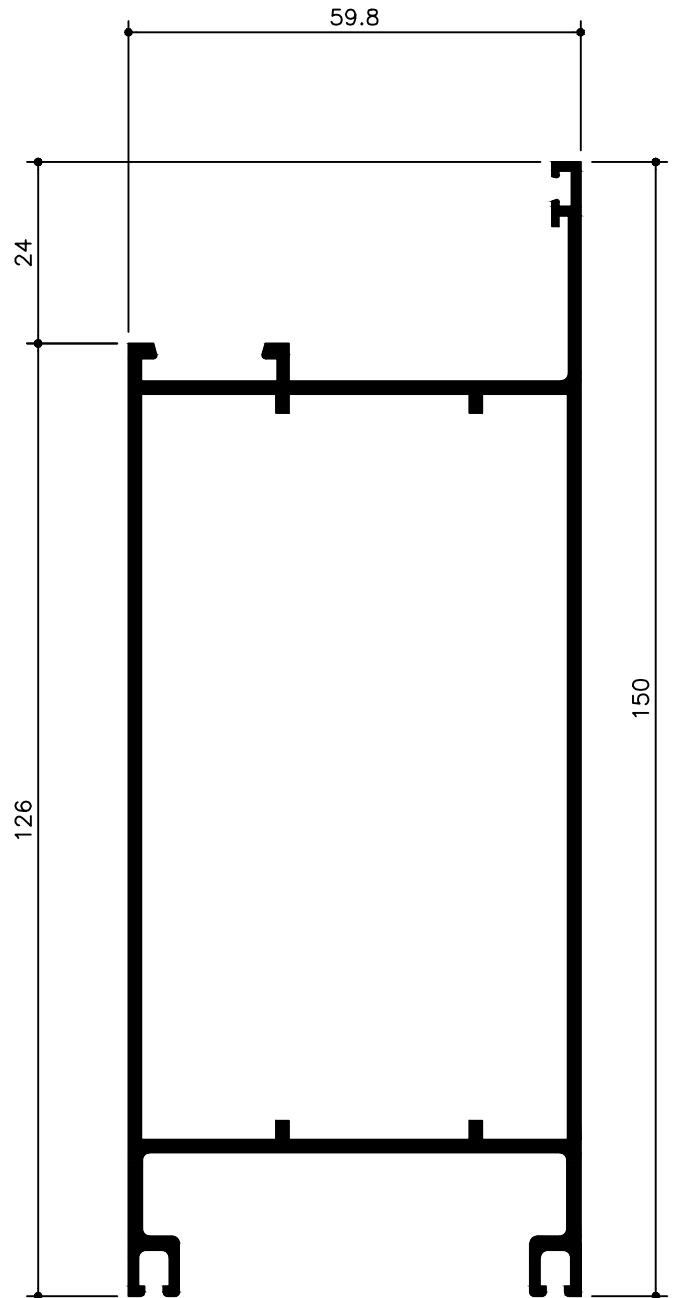
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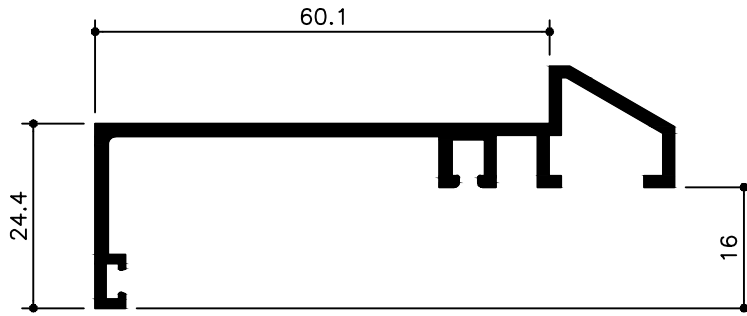
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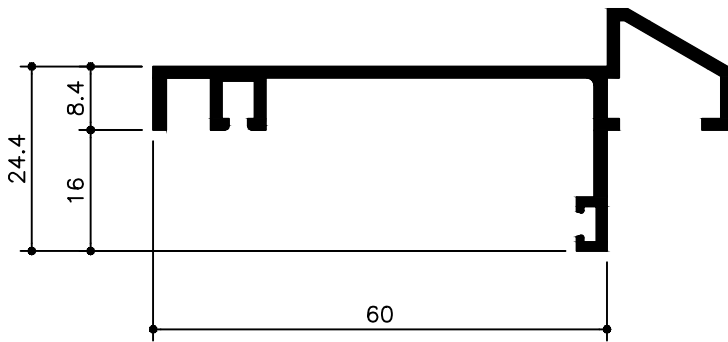
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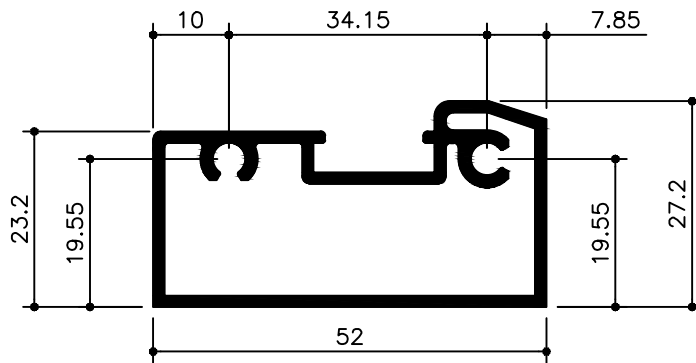
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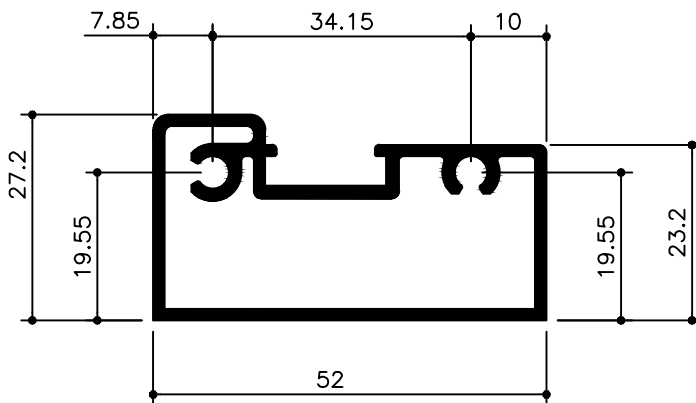
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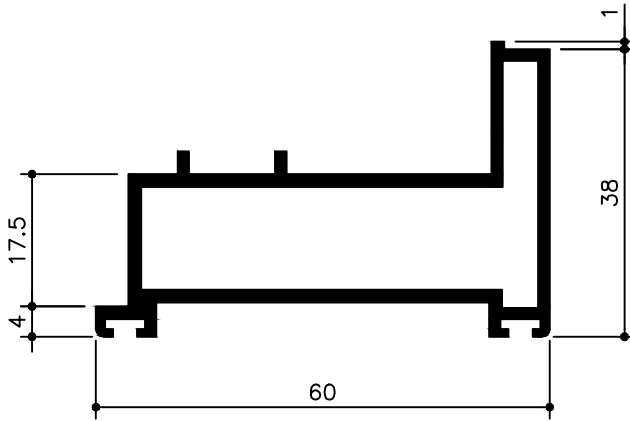
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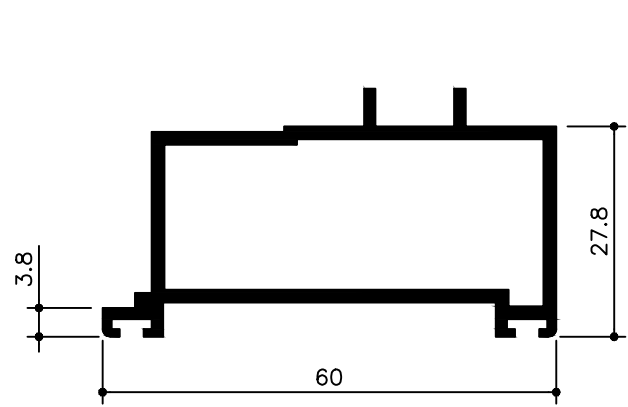
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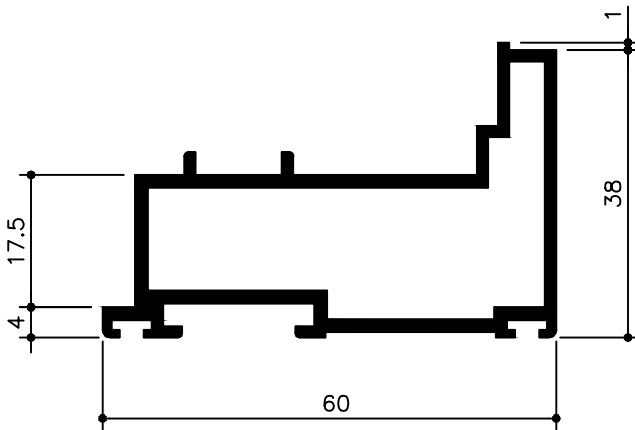
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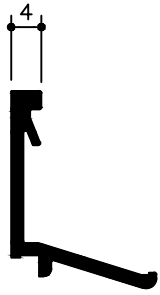
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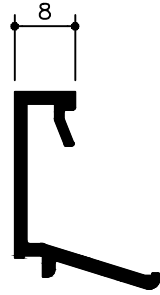
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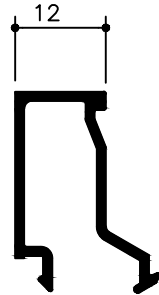
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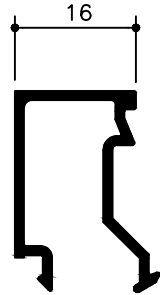
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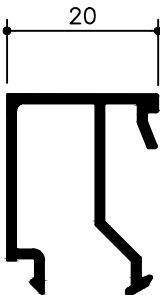
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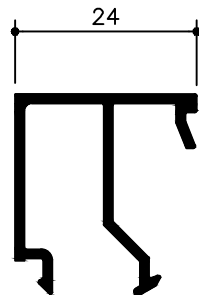
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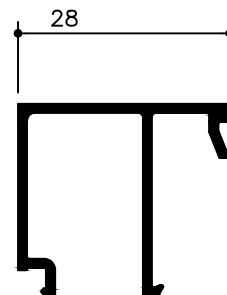
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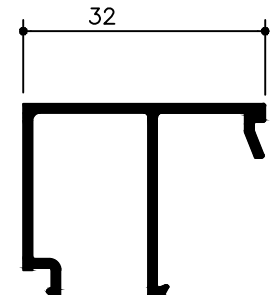
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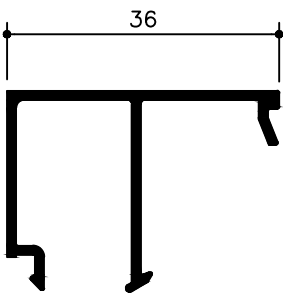
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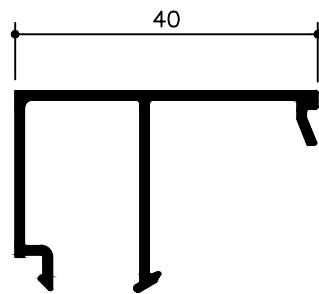
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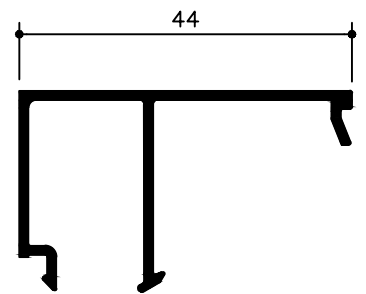
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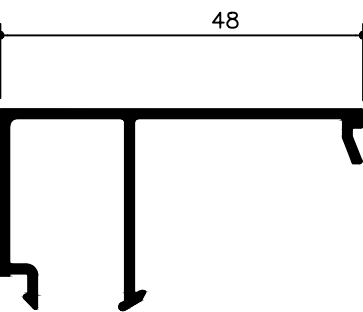
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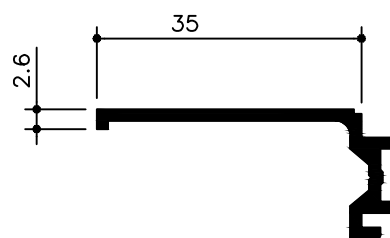
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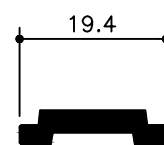
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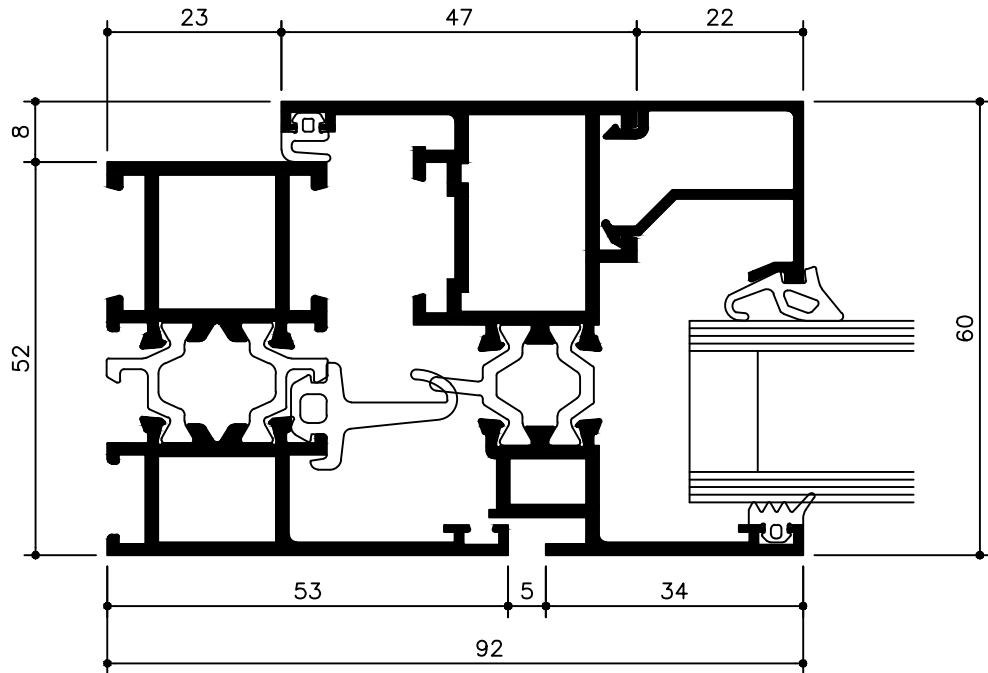
90839



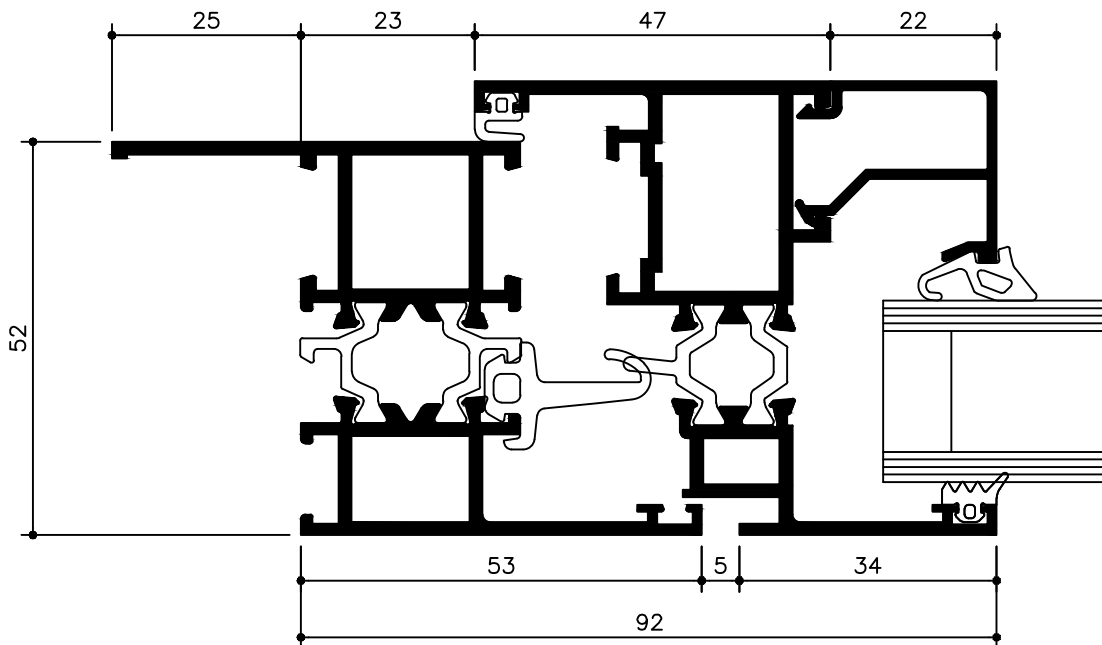
QXP003

Sector I

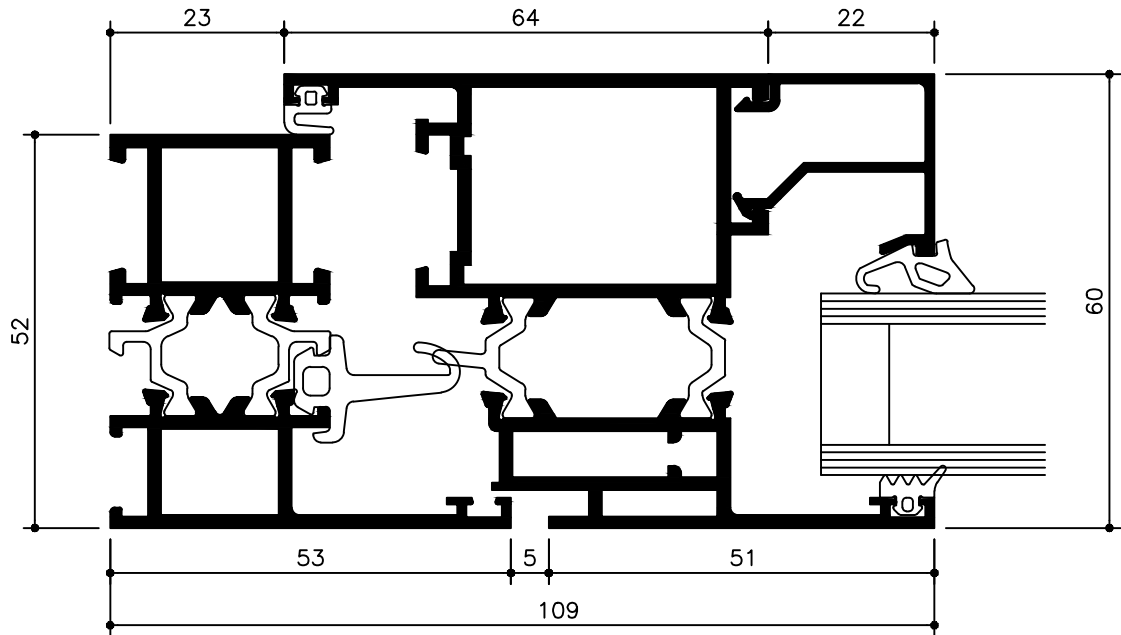
Assembled sections



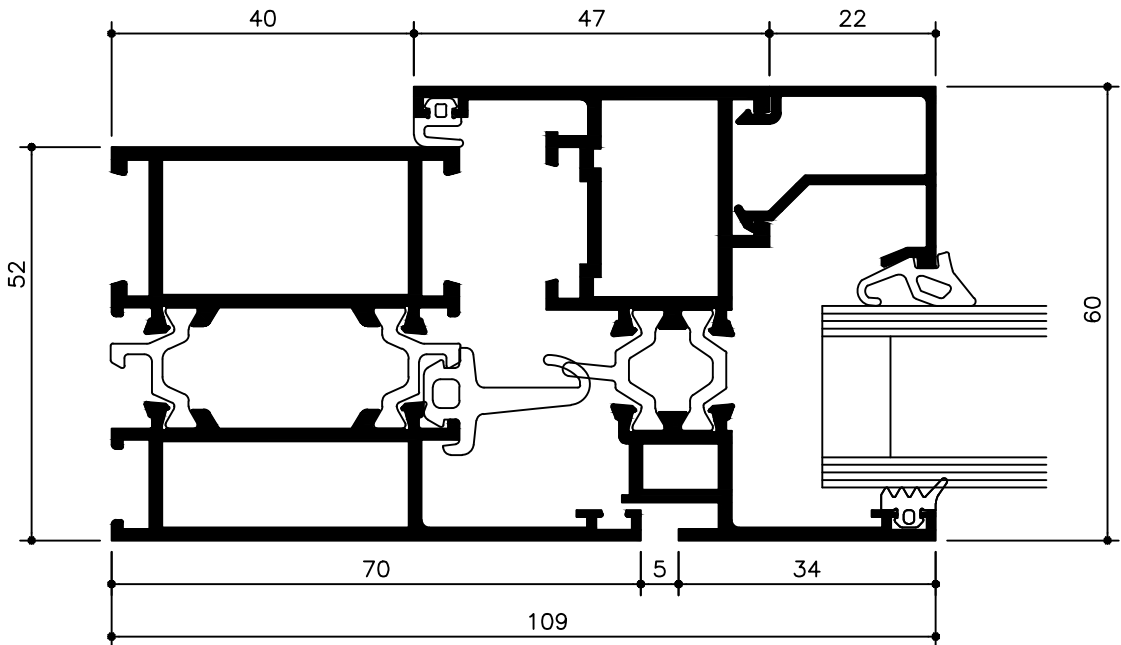
AQ101A



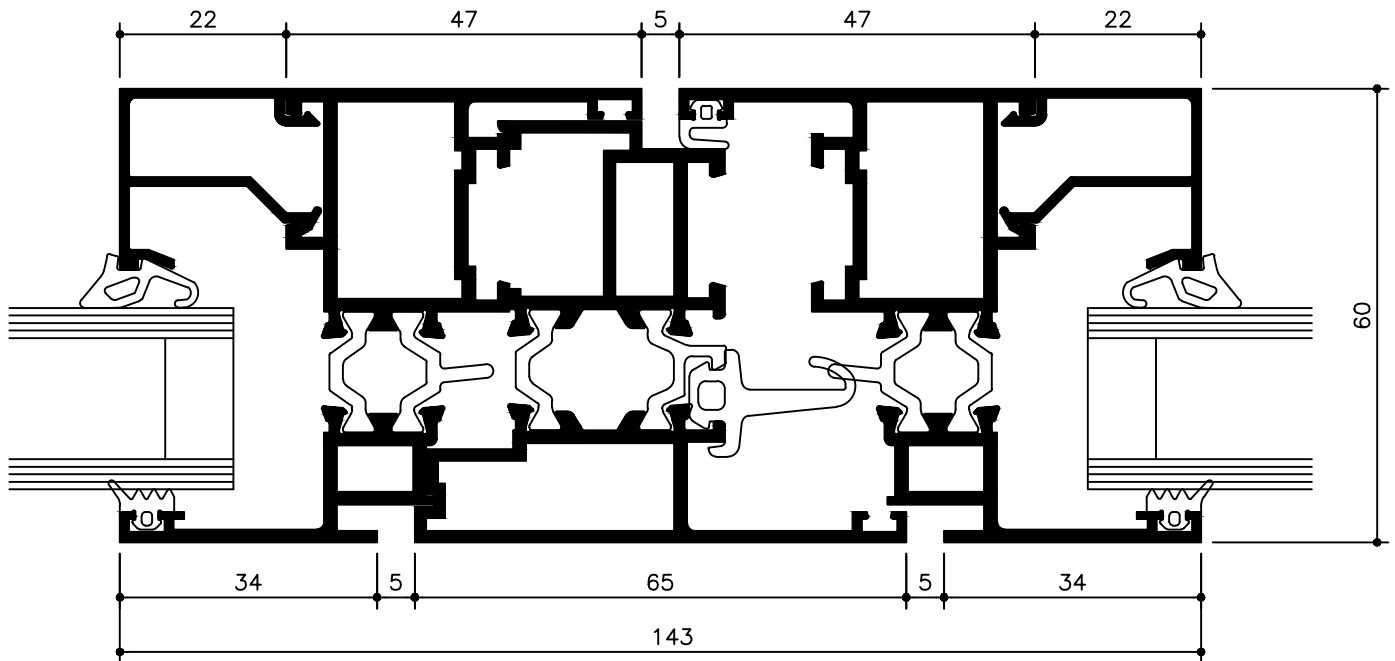
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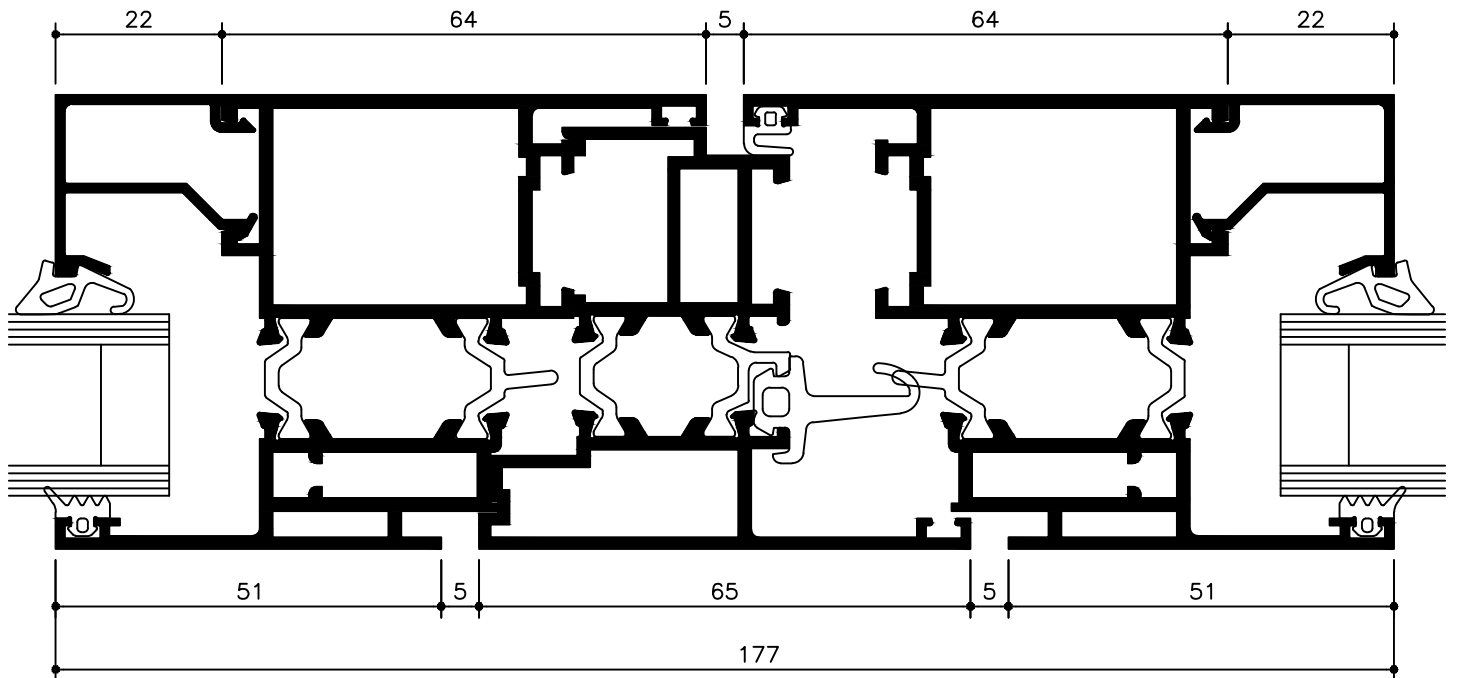
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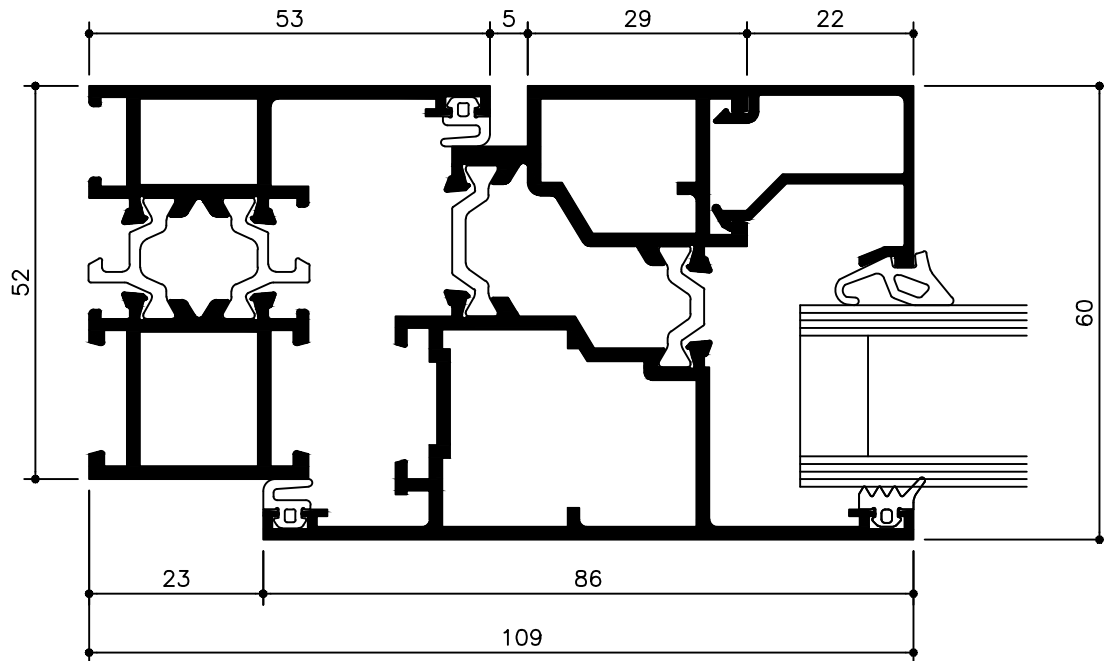
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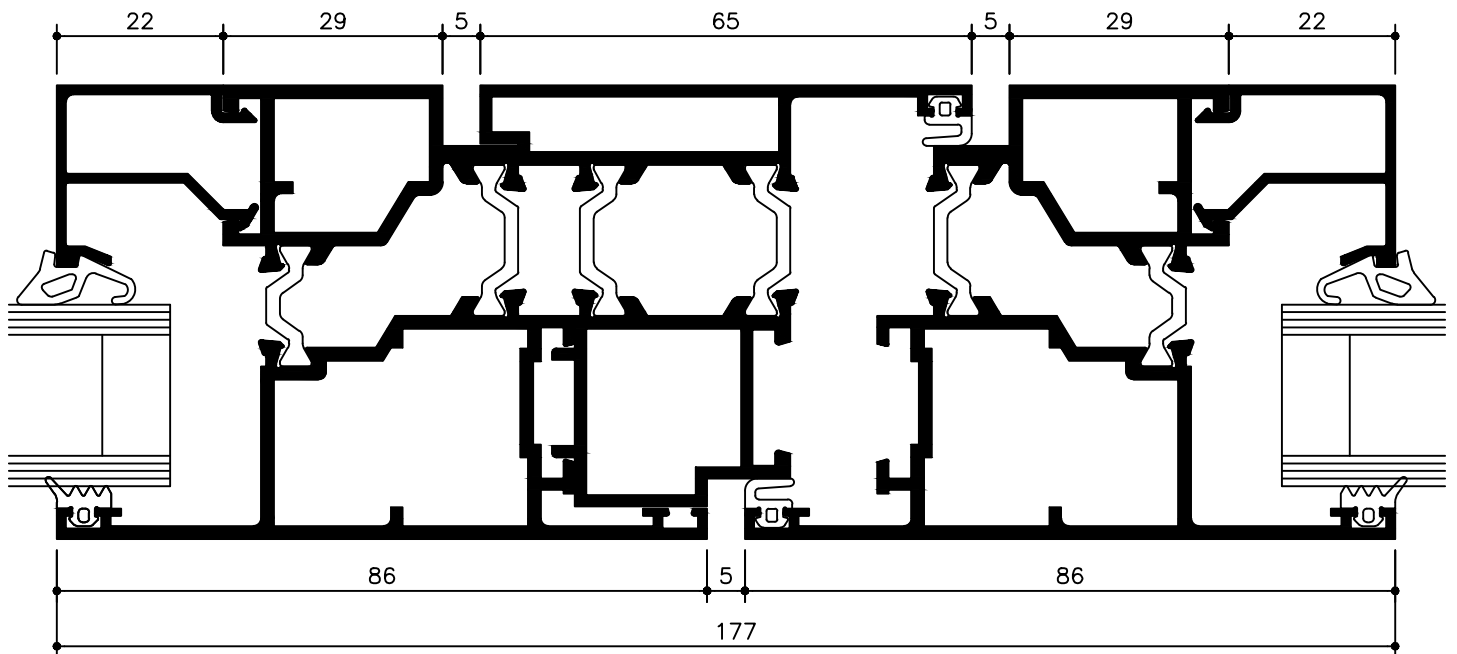
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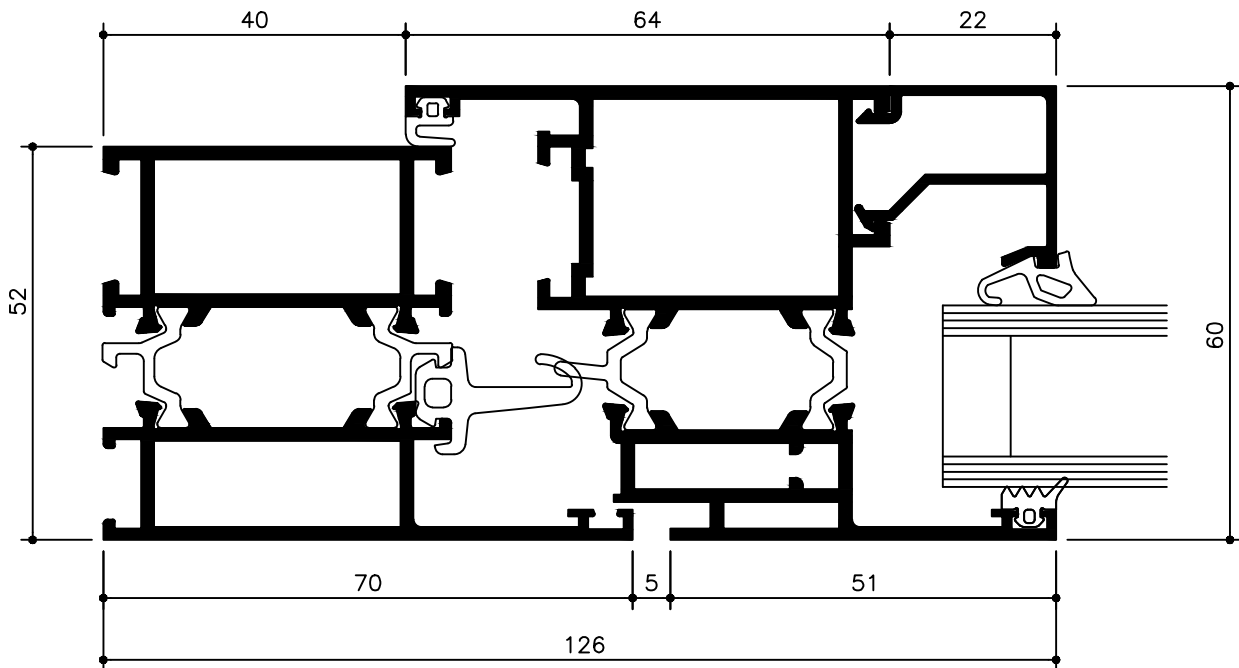
AQ102B



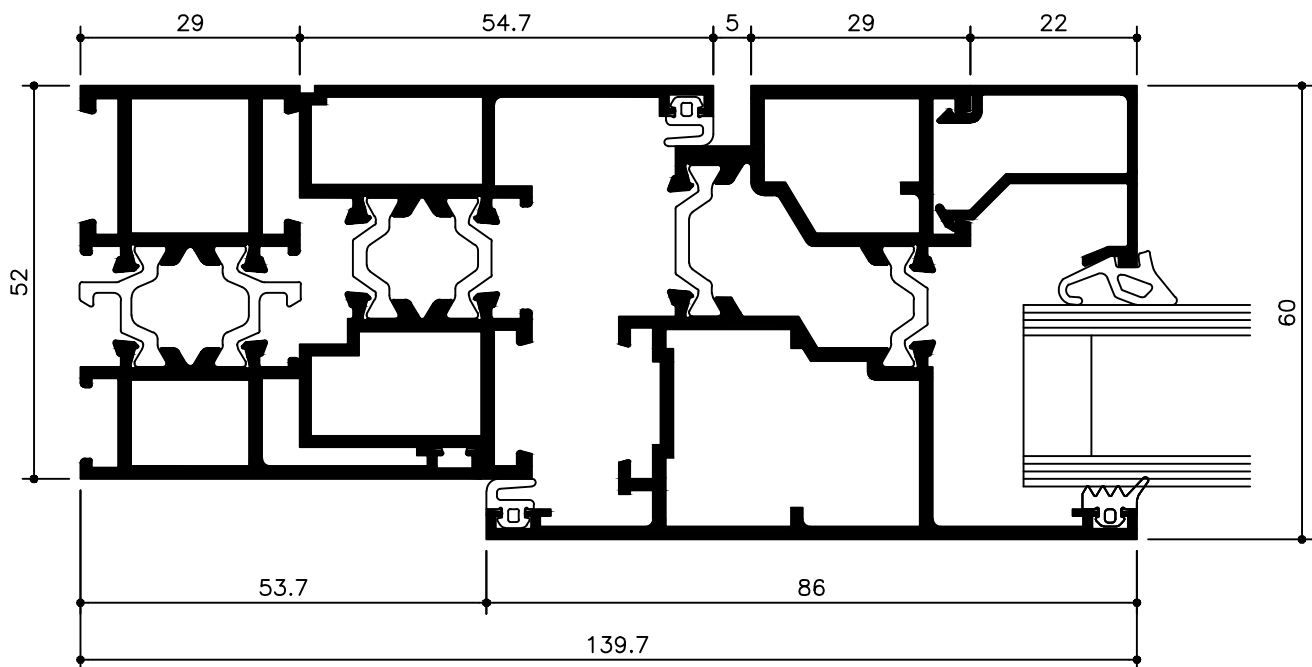
AQ103



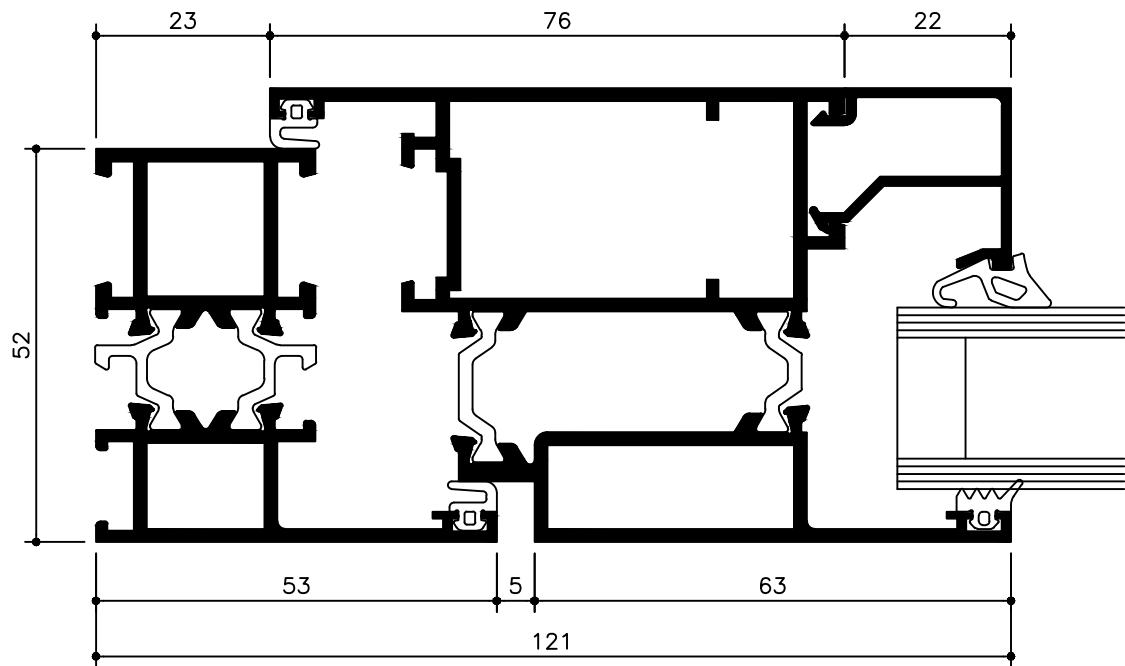
AQ104



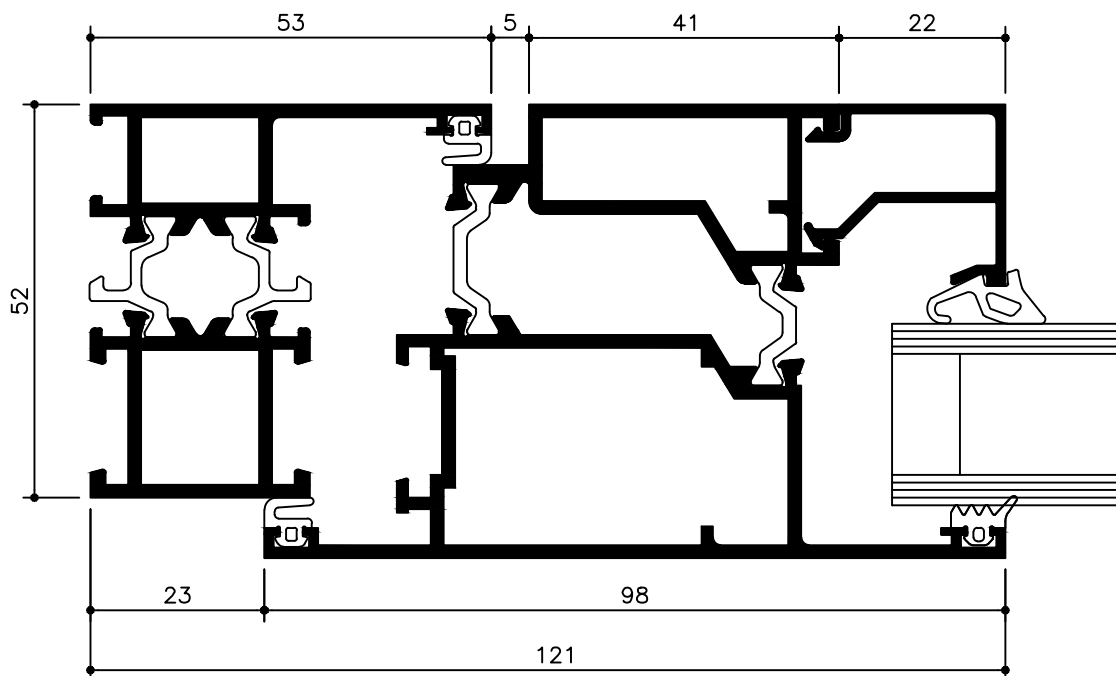
AQ101E



AQ105



AQ106



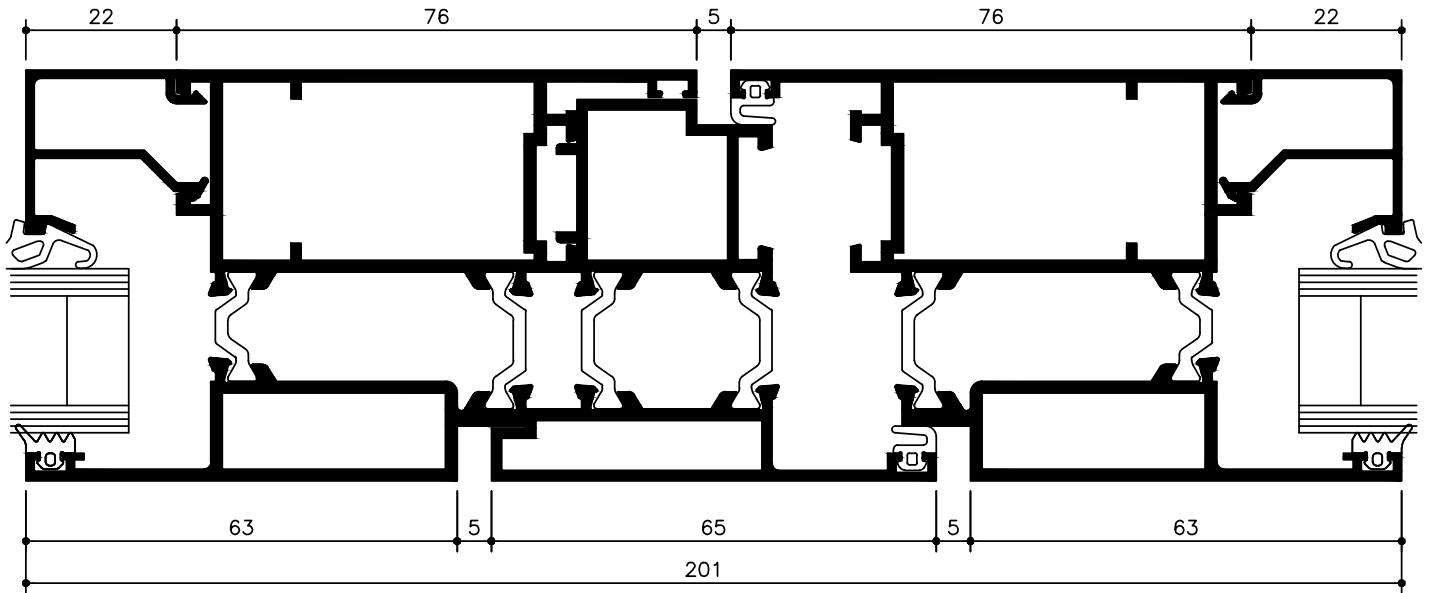
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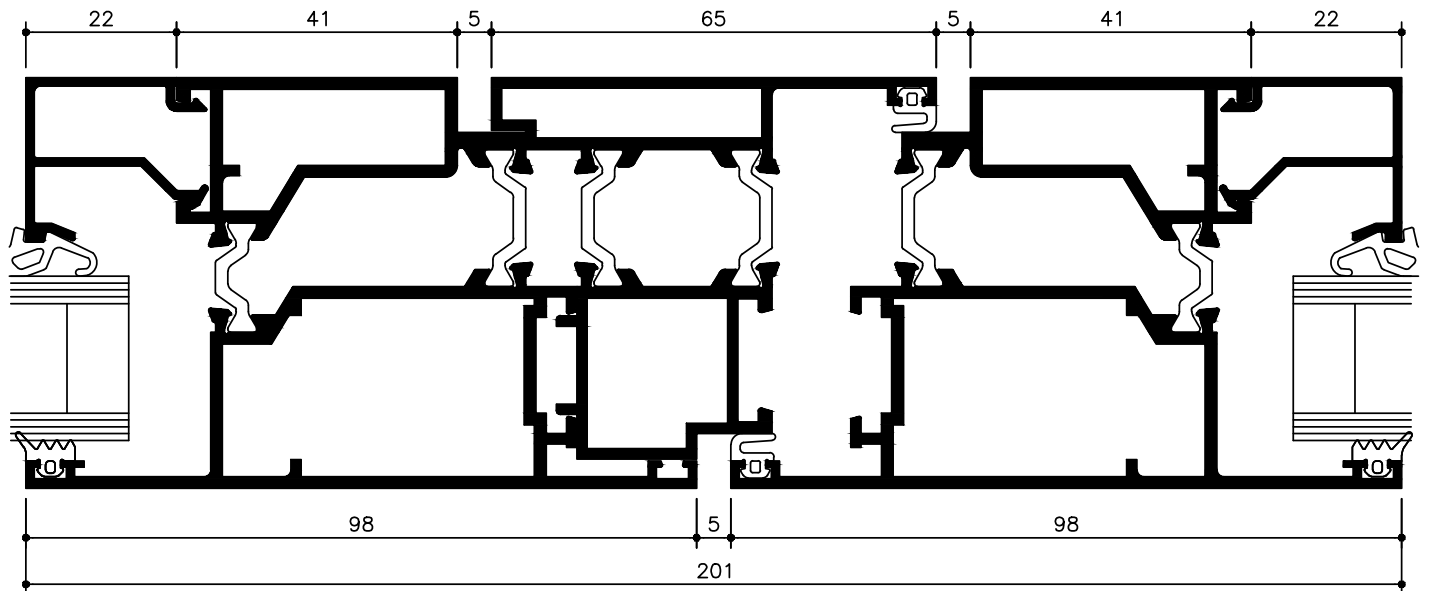
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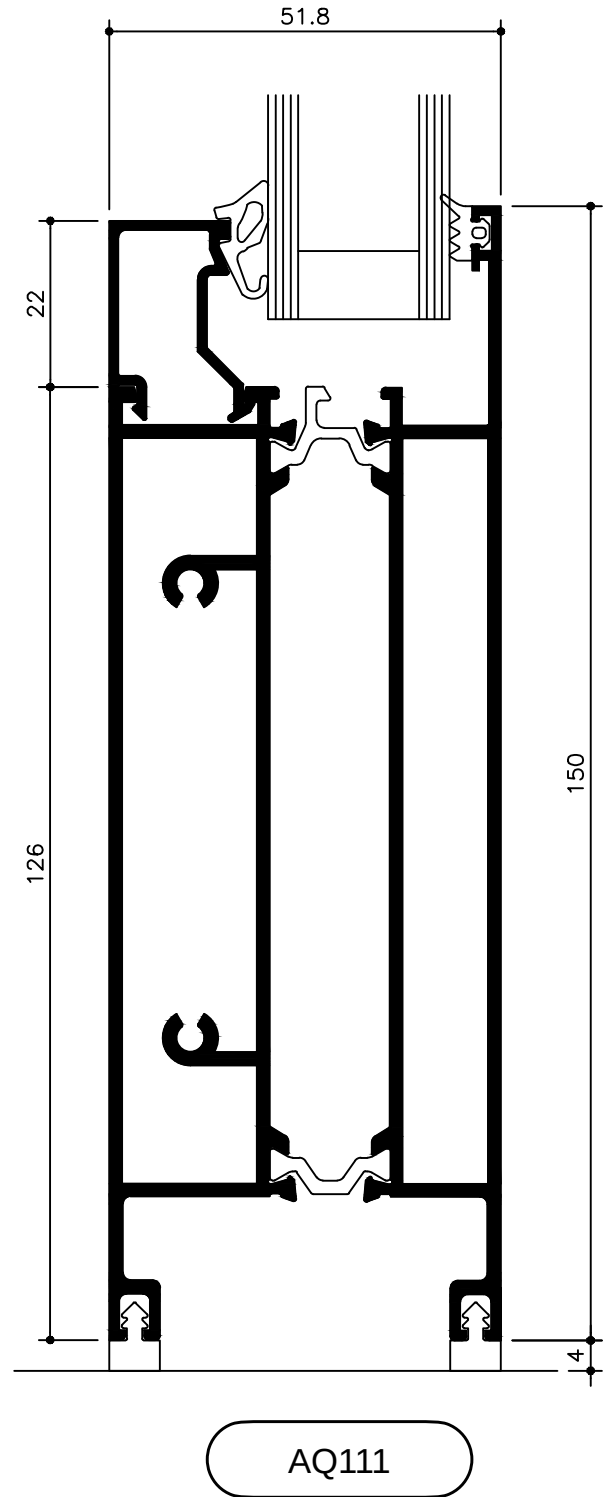
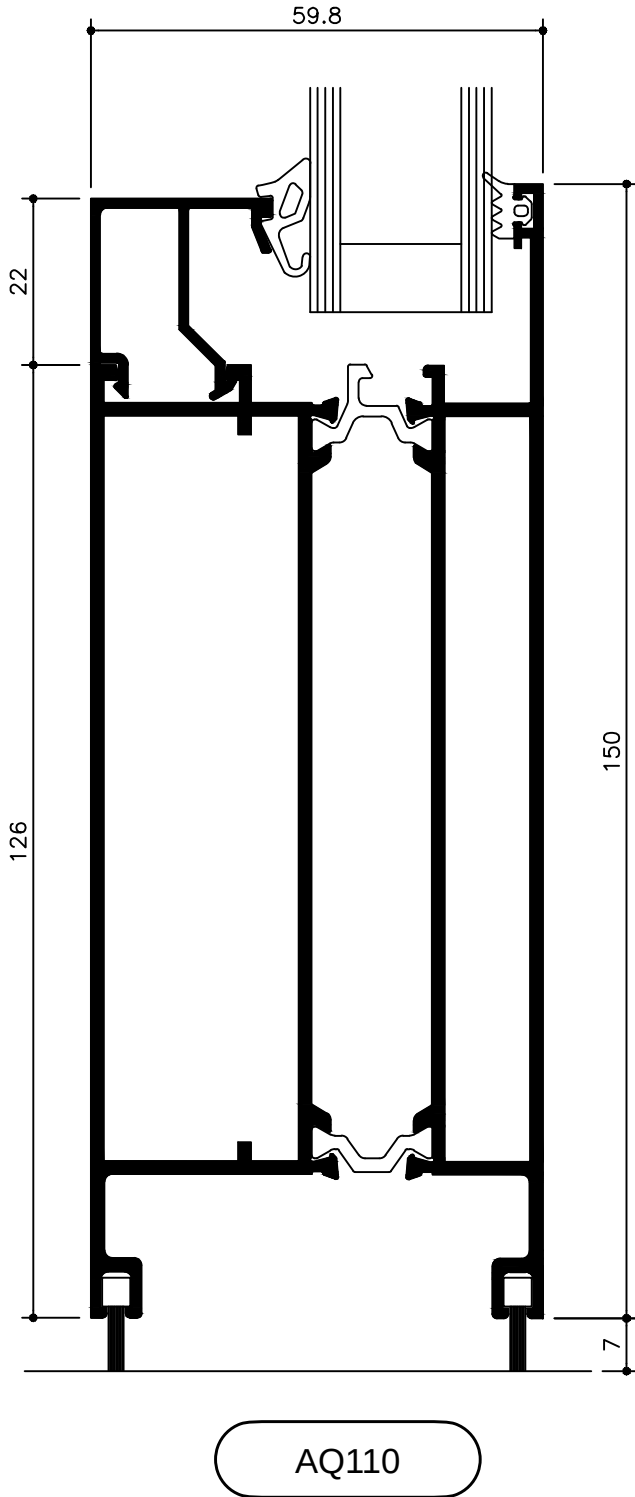


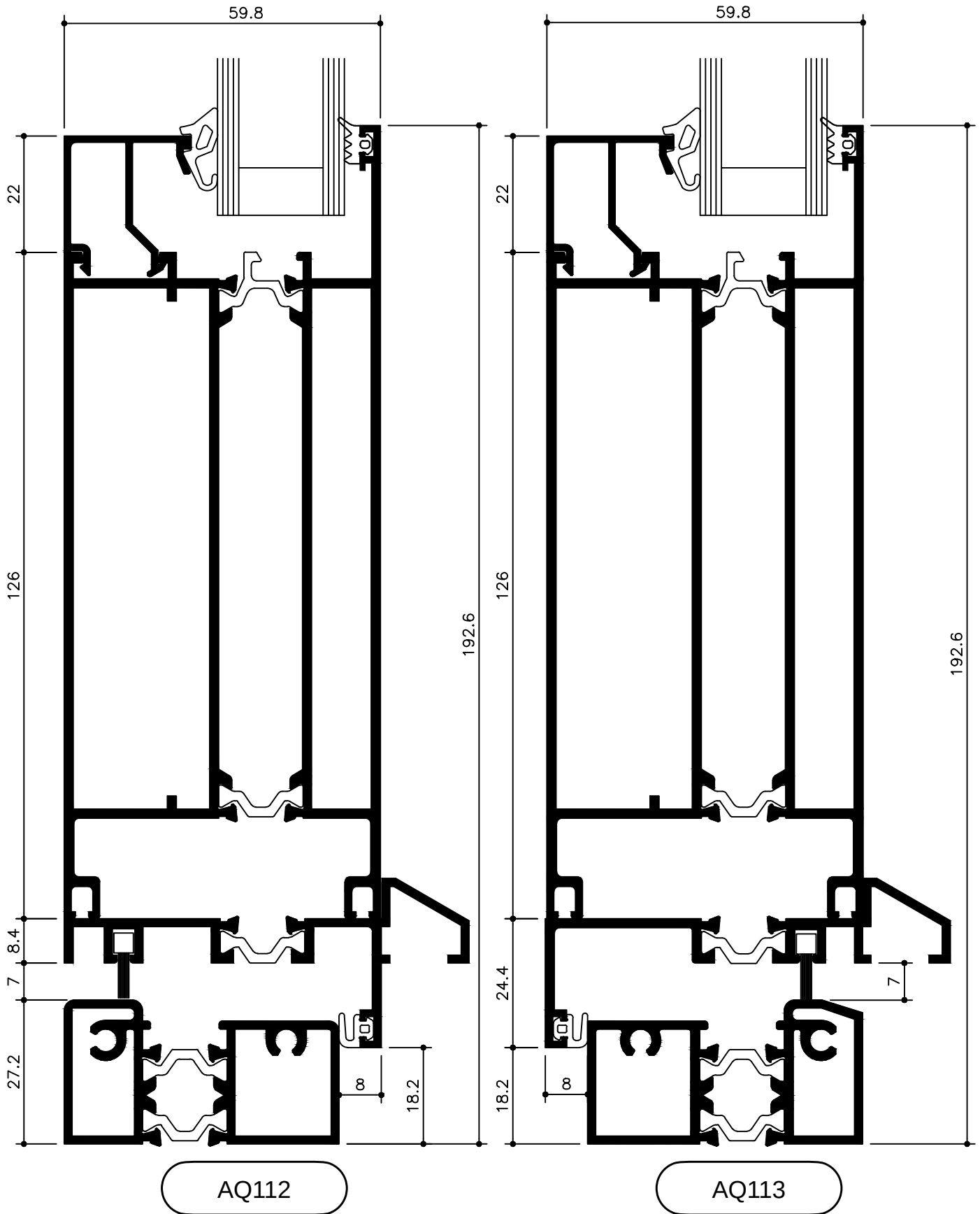
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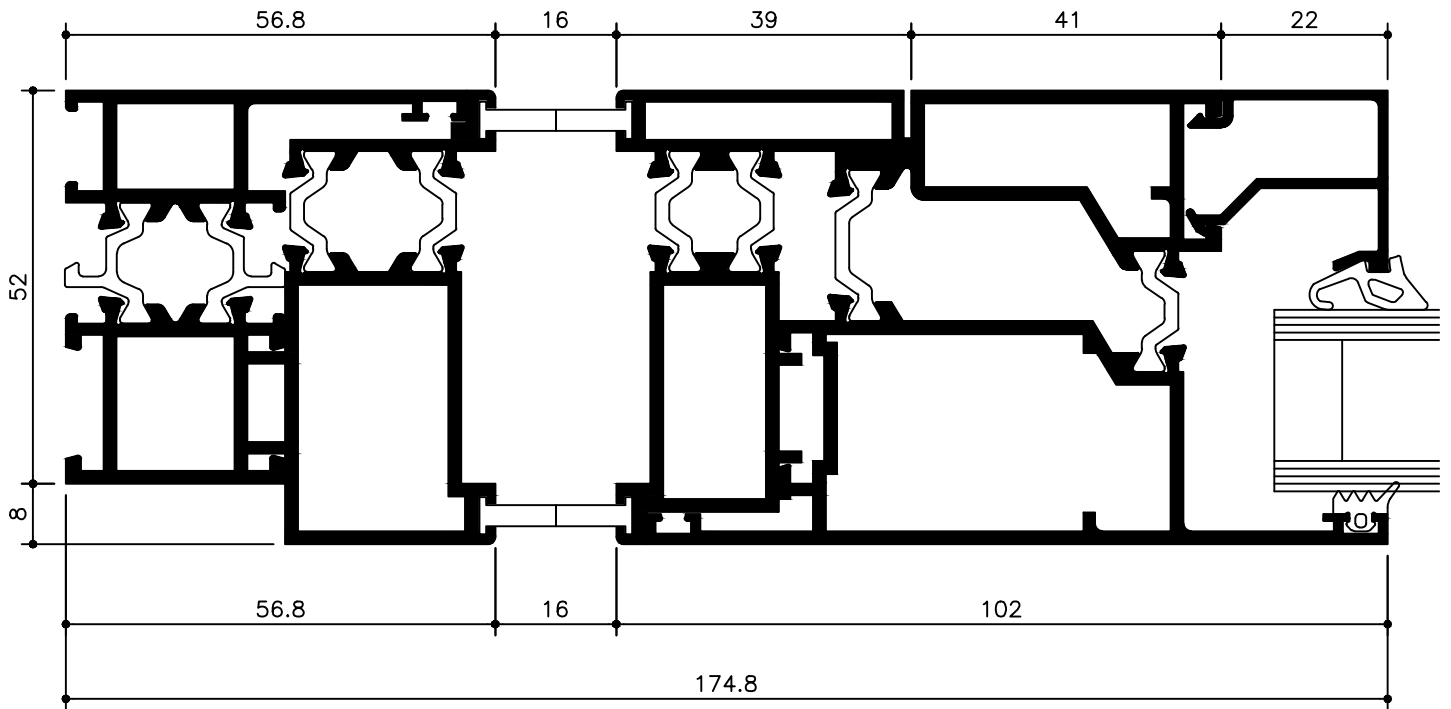


AQ109

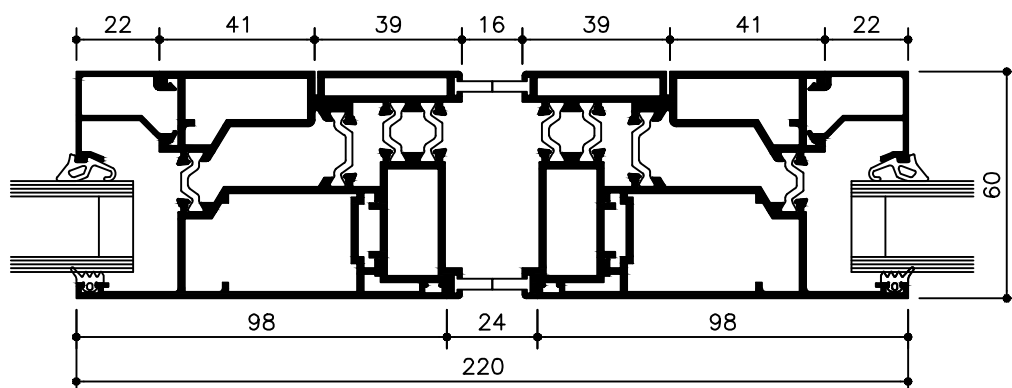
SECTOR I.7





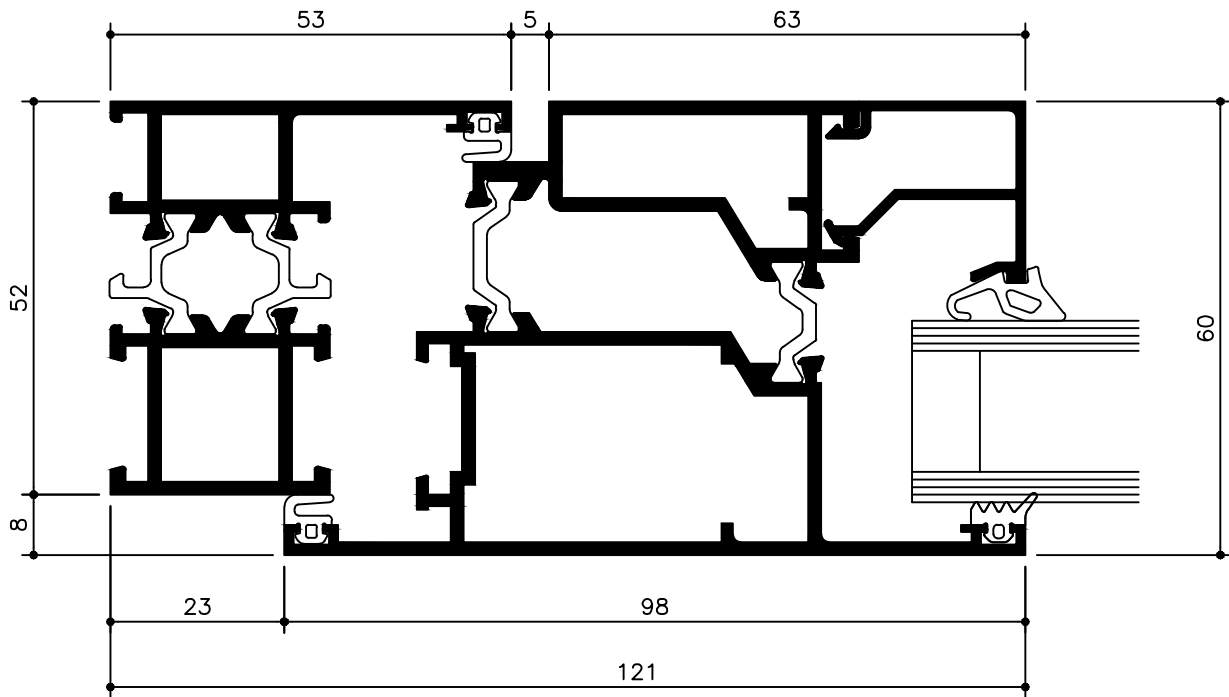


AQ114

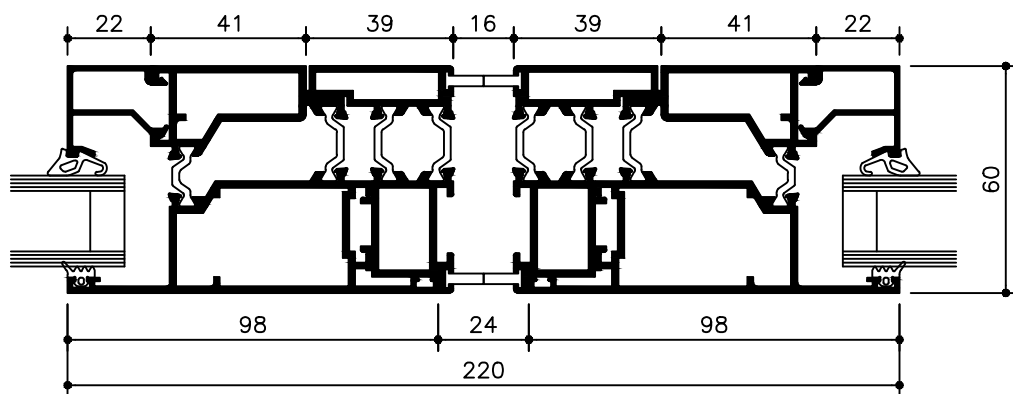


SCALE 1:2

AQ115



AQ107

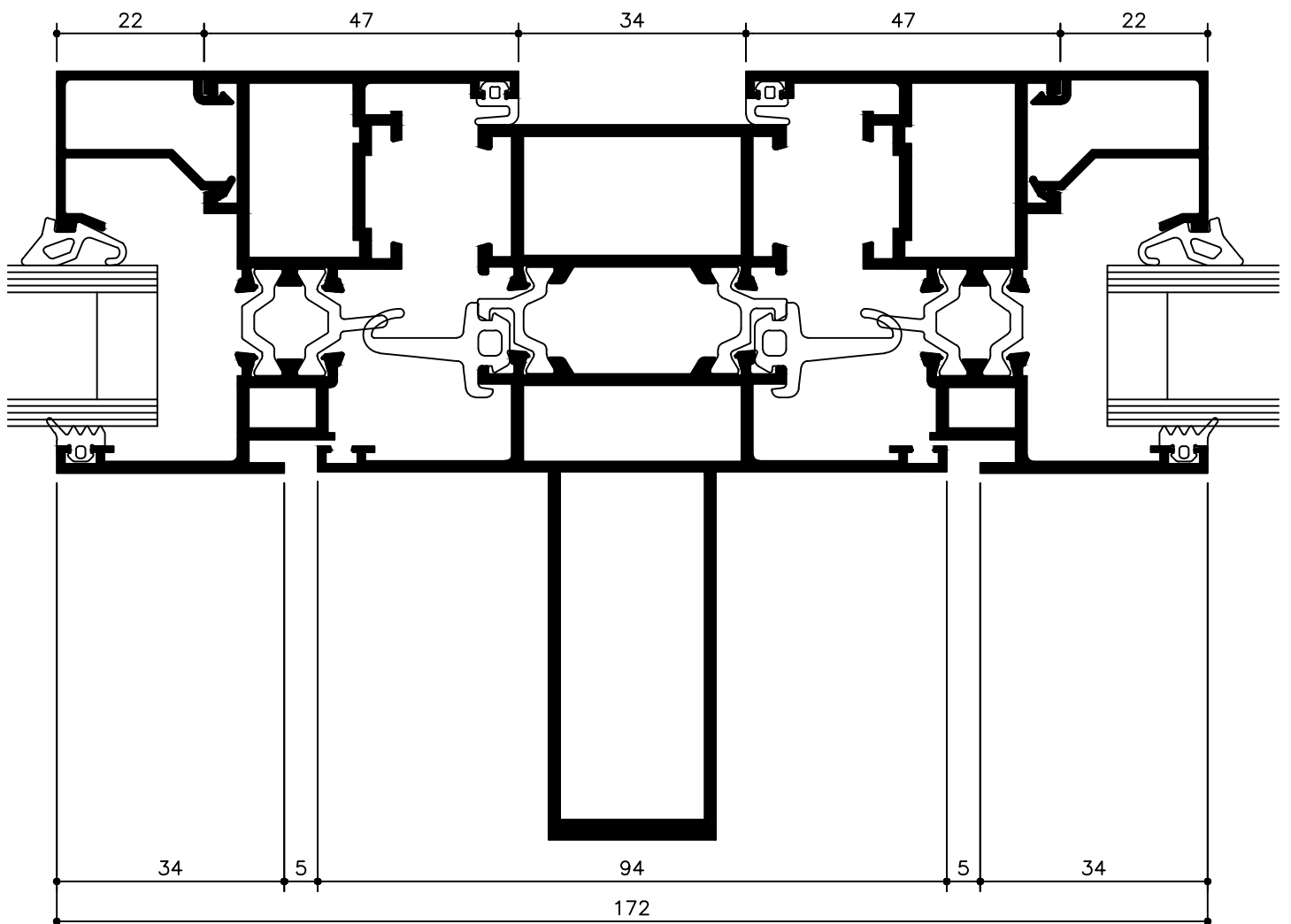
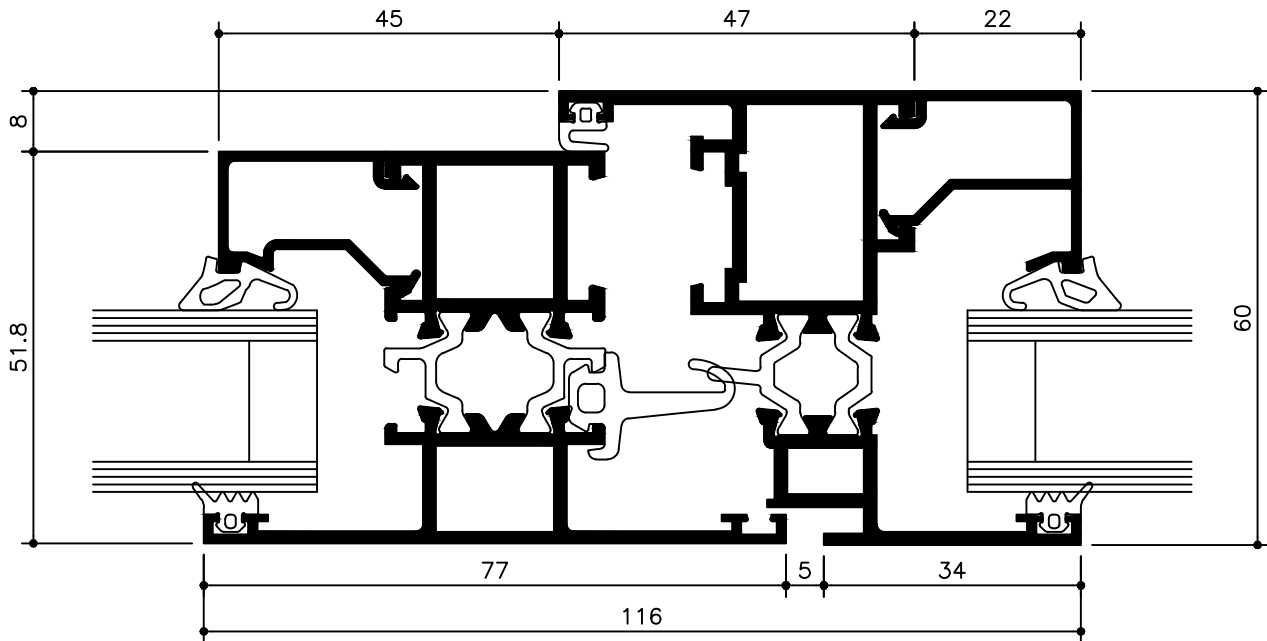


SCALE 1:2

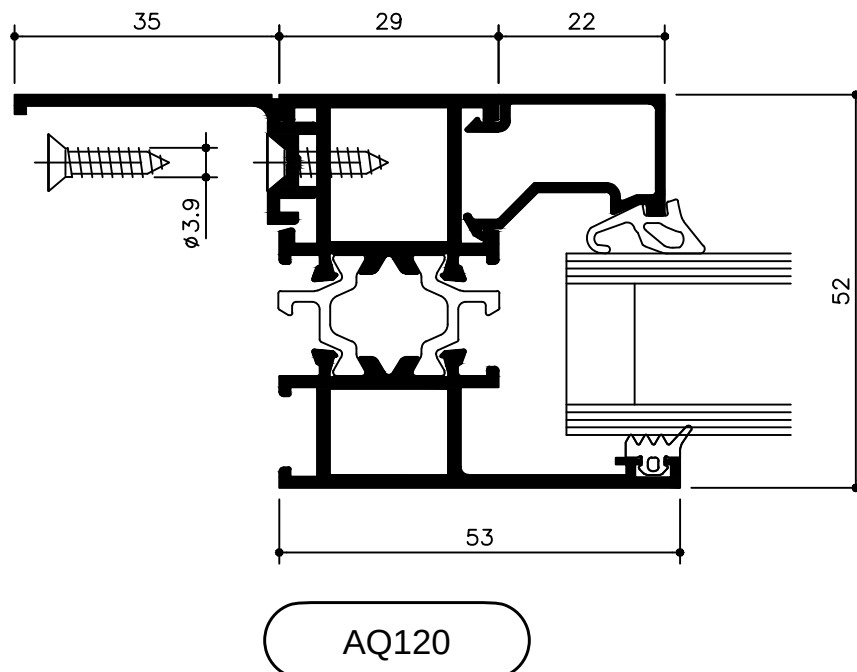
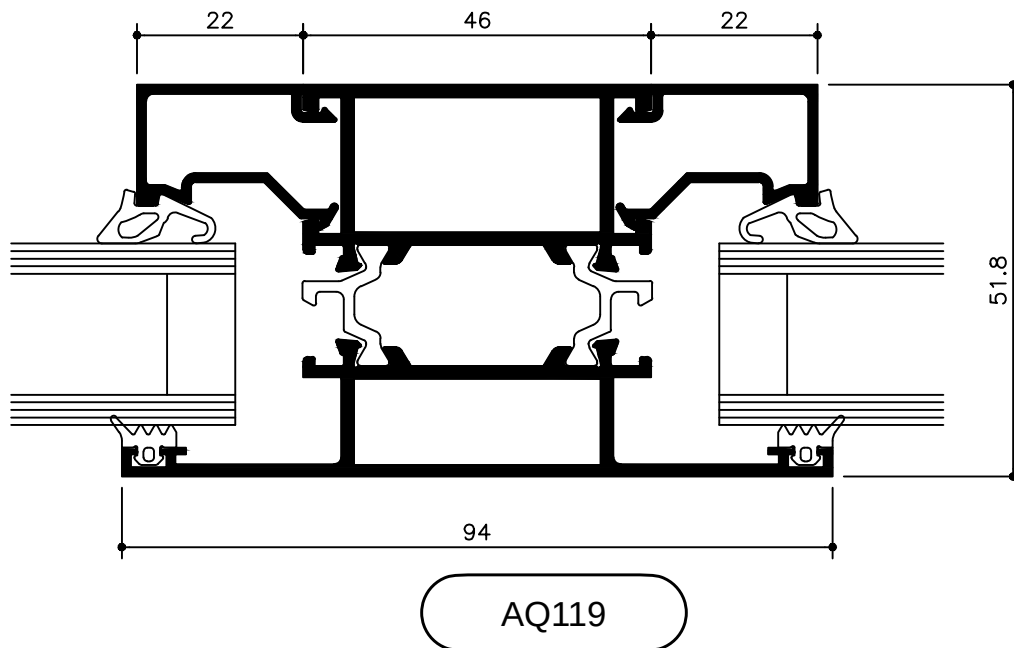
AQ116

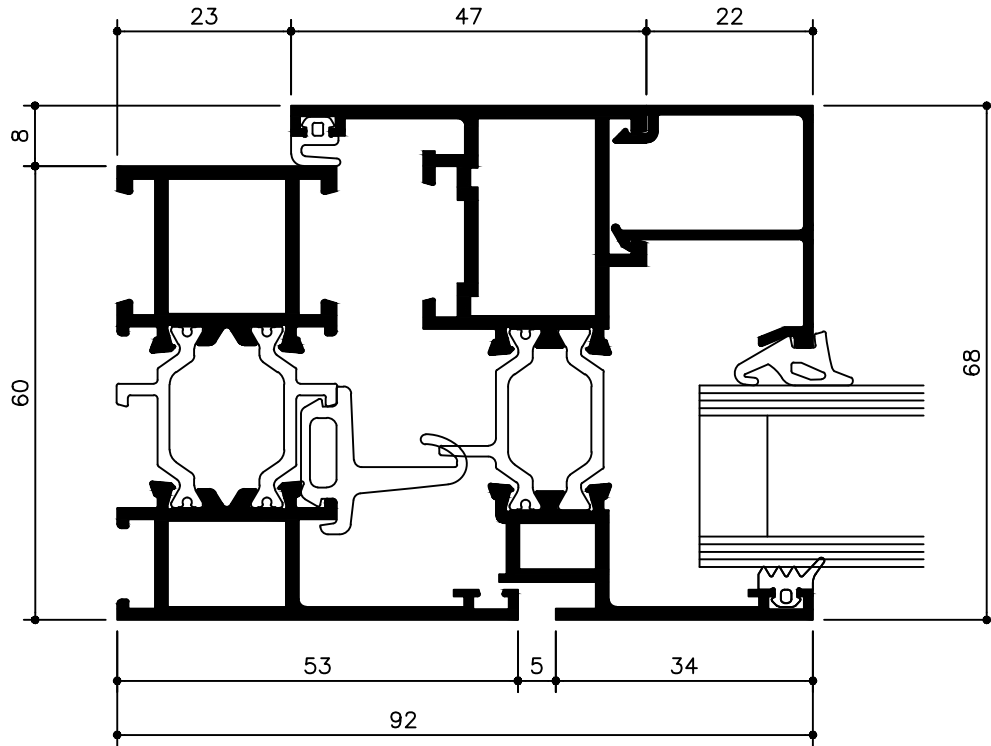


AQ117

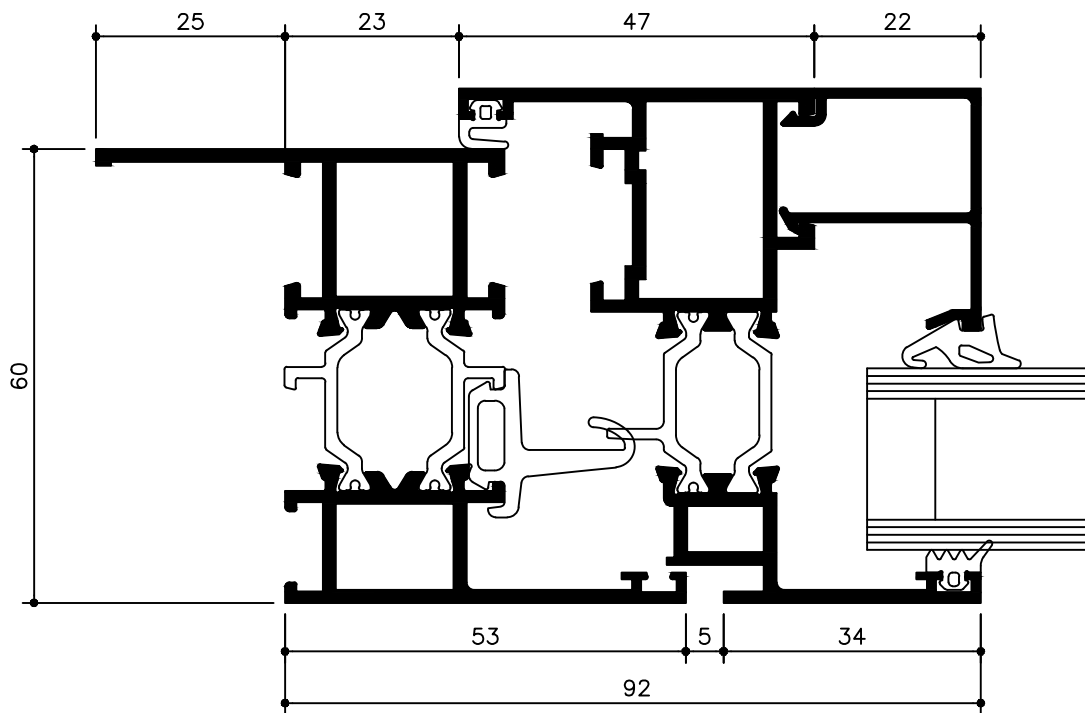


AQ118

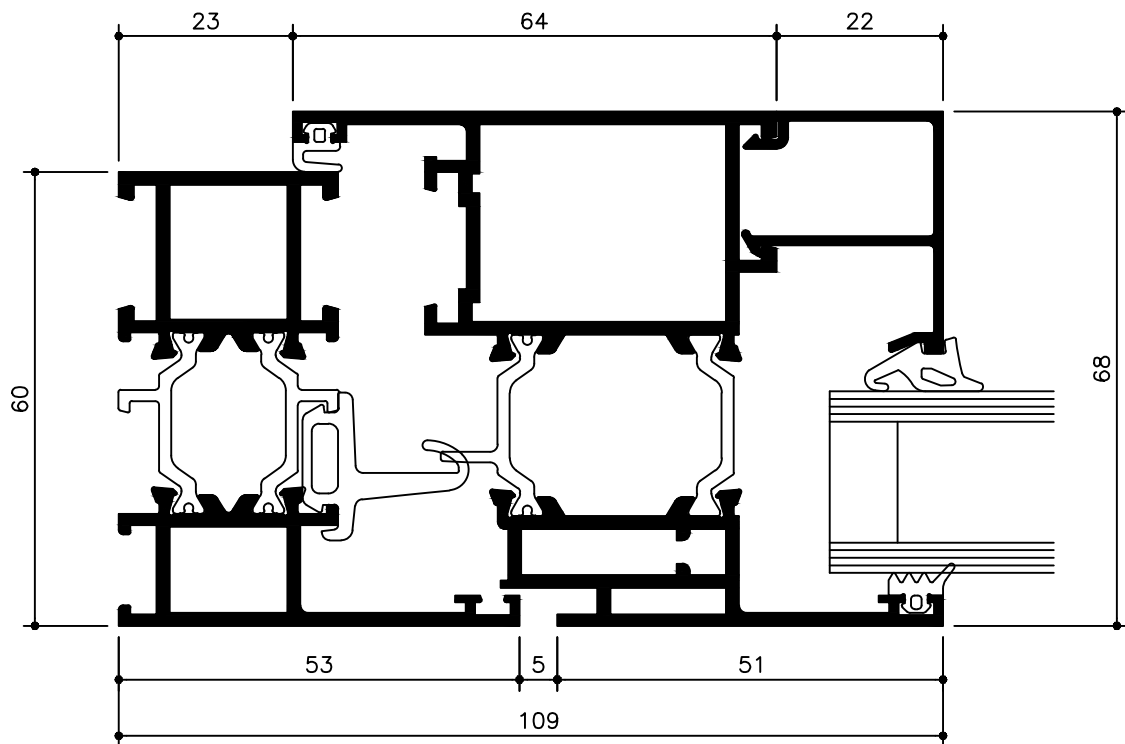




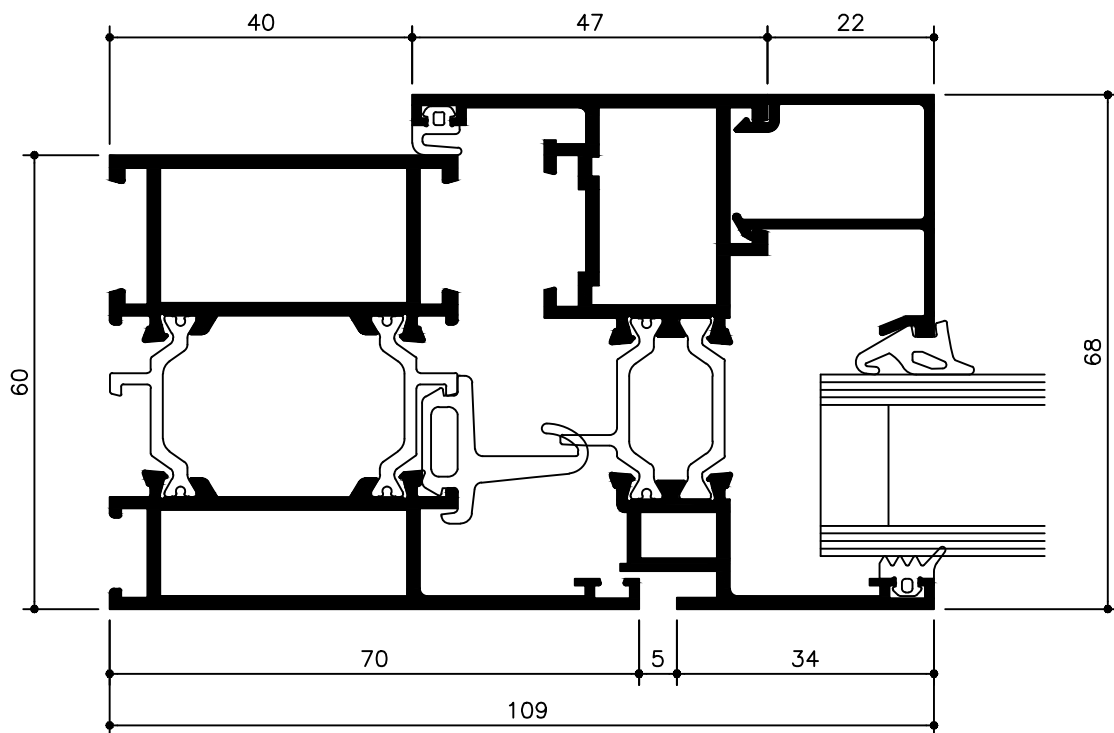
AQ121A



AQ121B



AQ121C



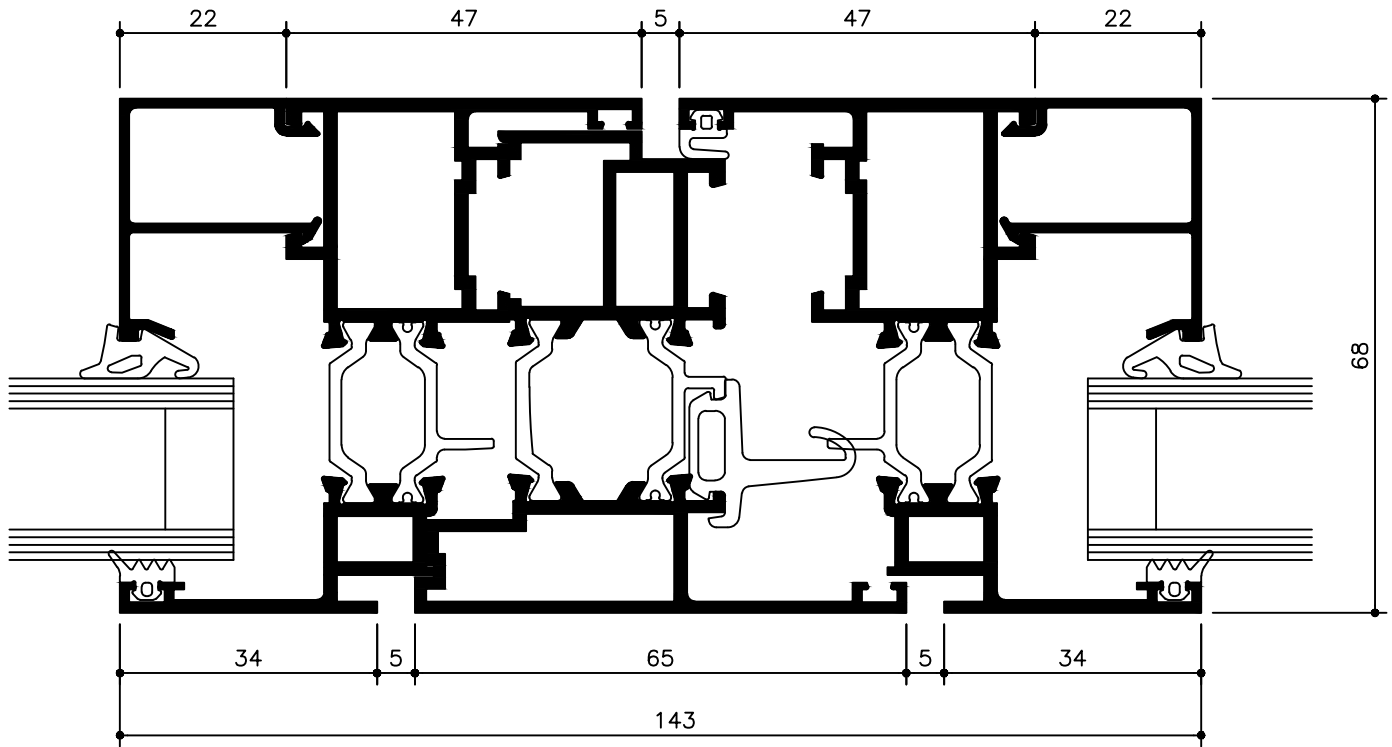
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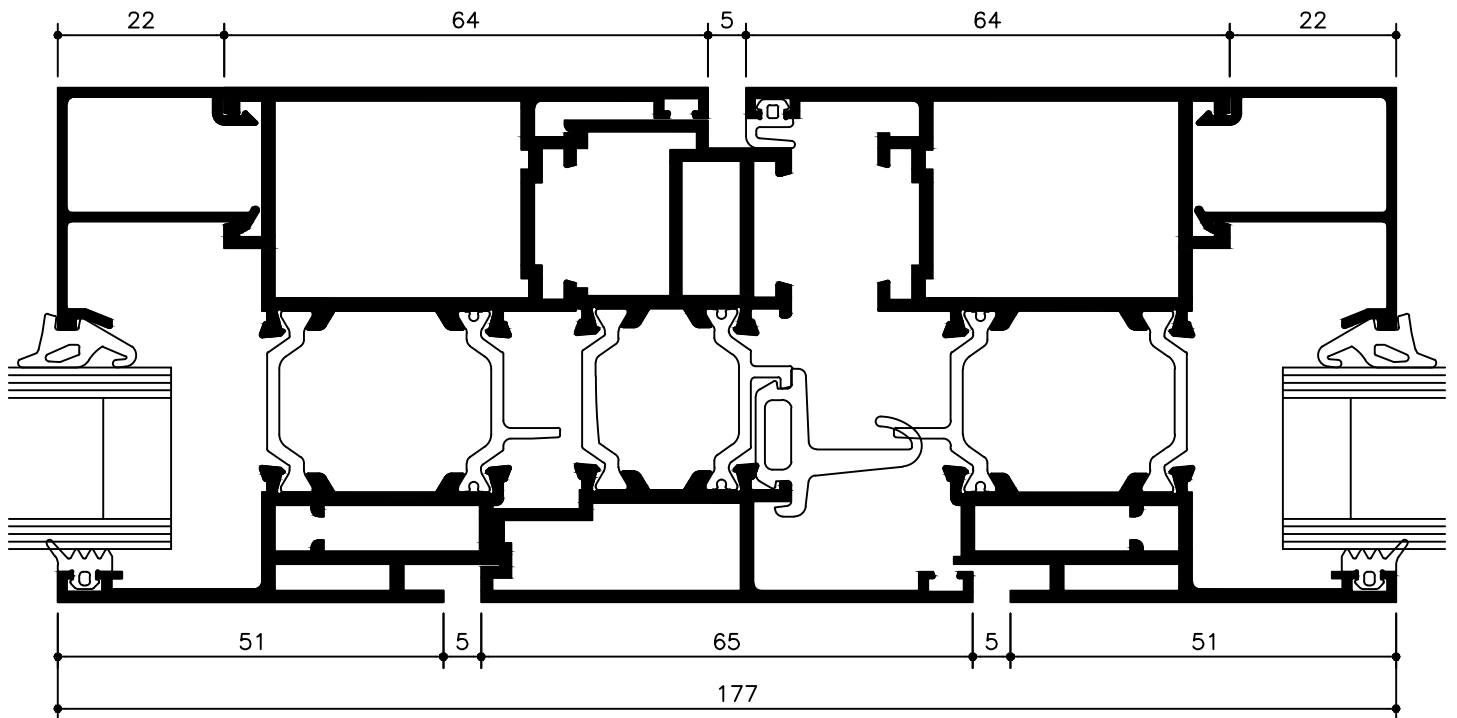
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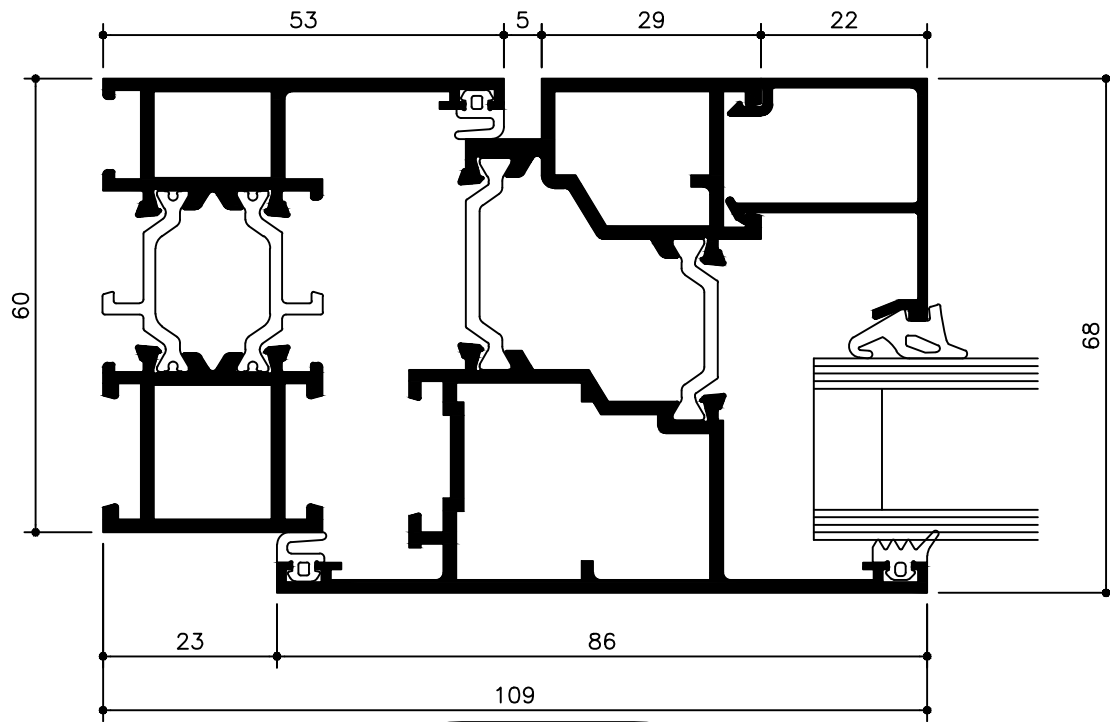
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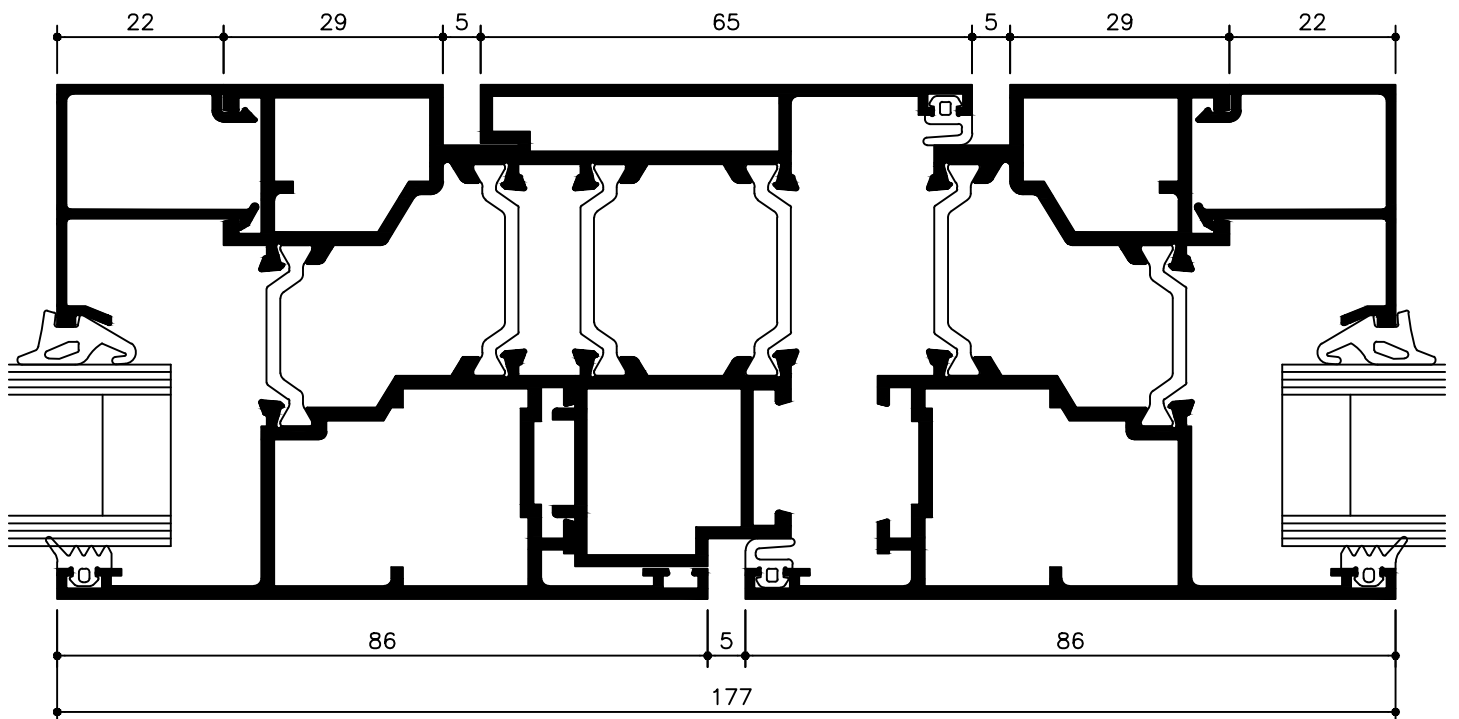
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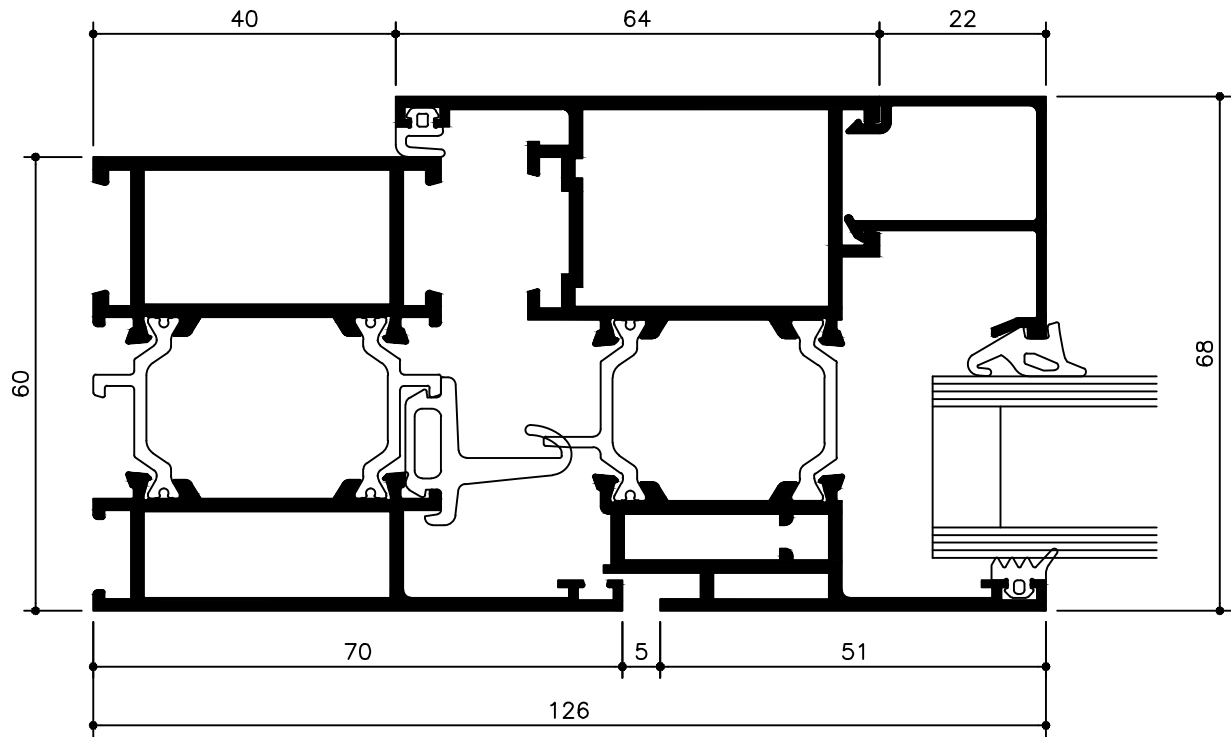
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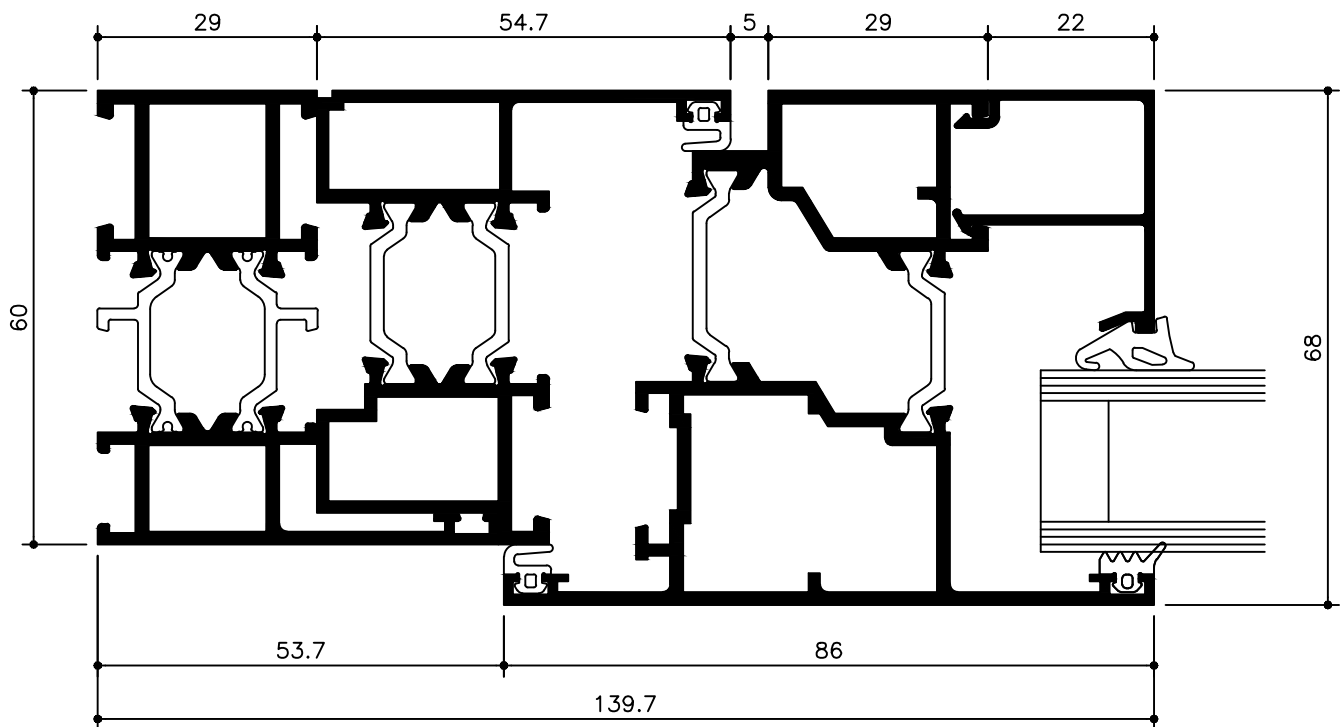
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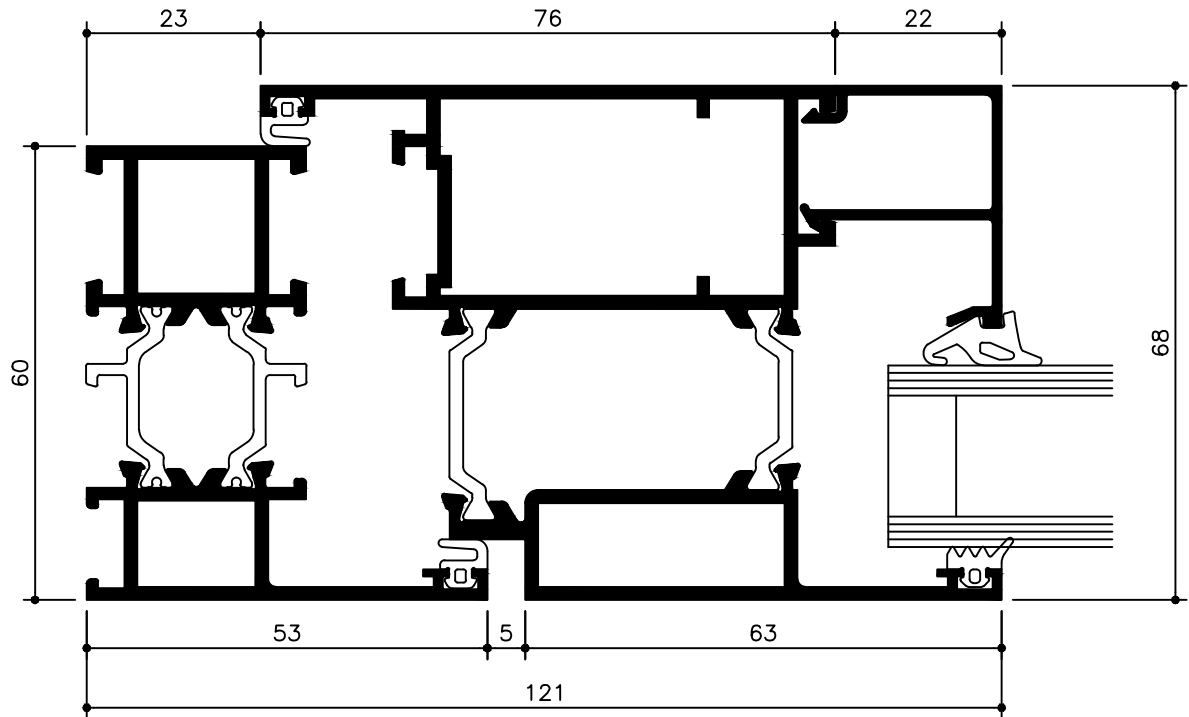
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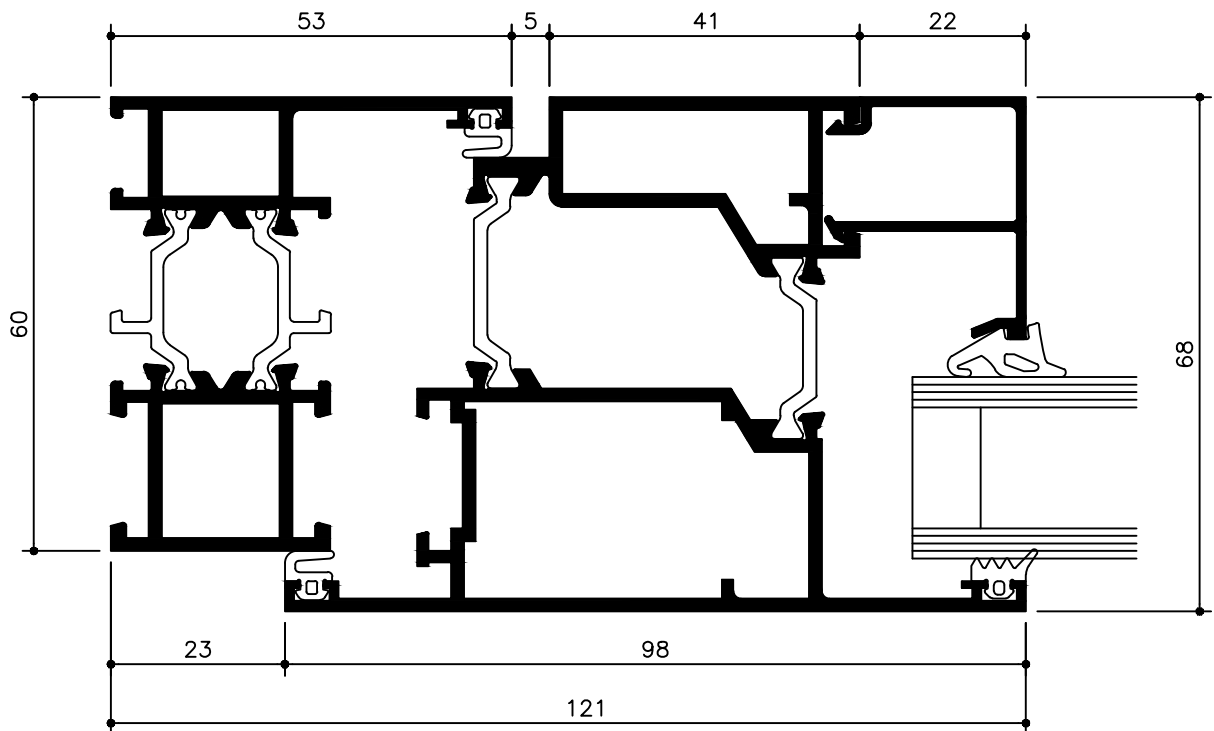
AQ121E



AQ125



AQ126



AQ127



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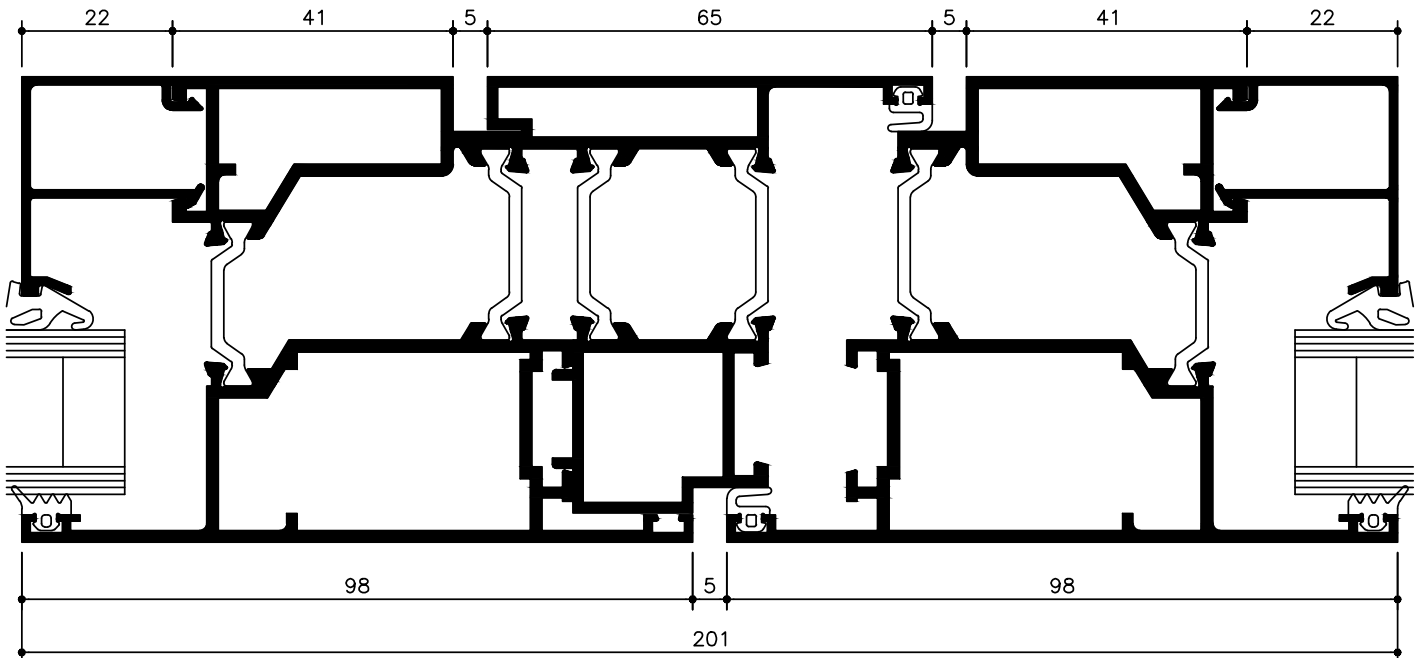
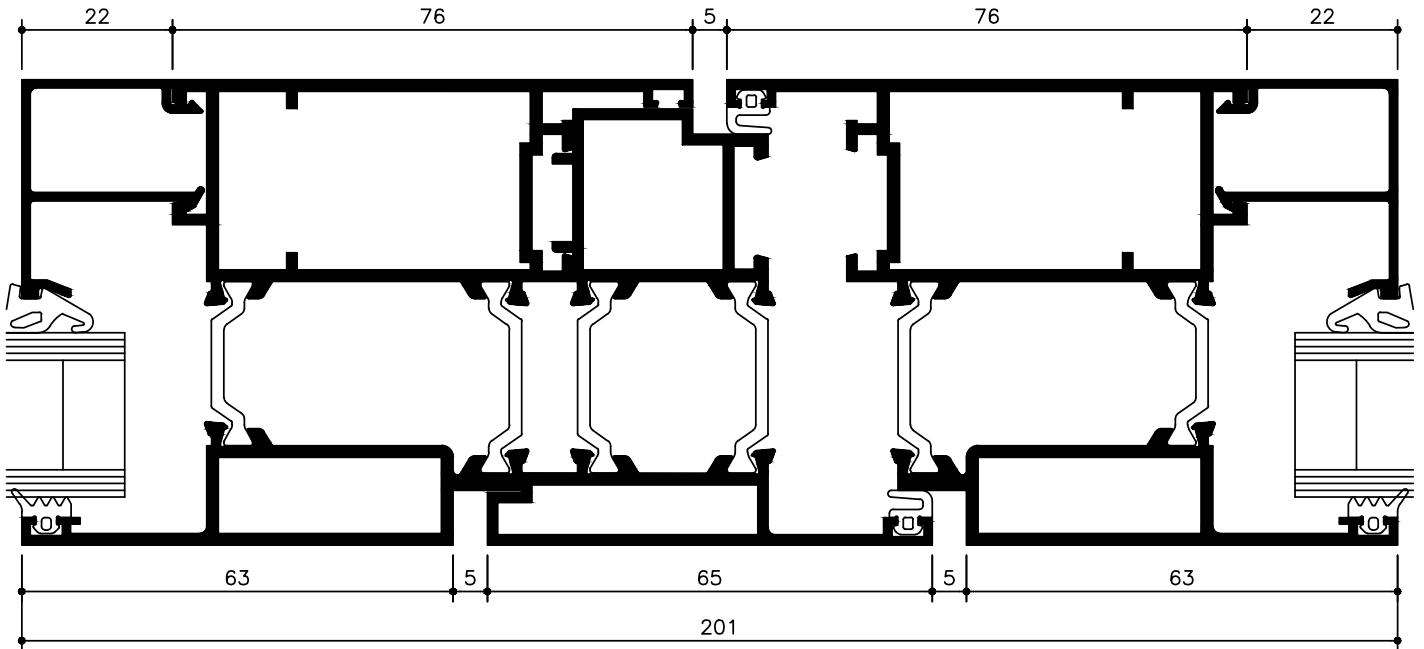


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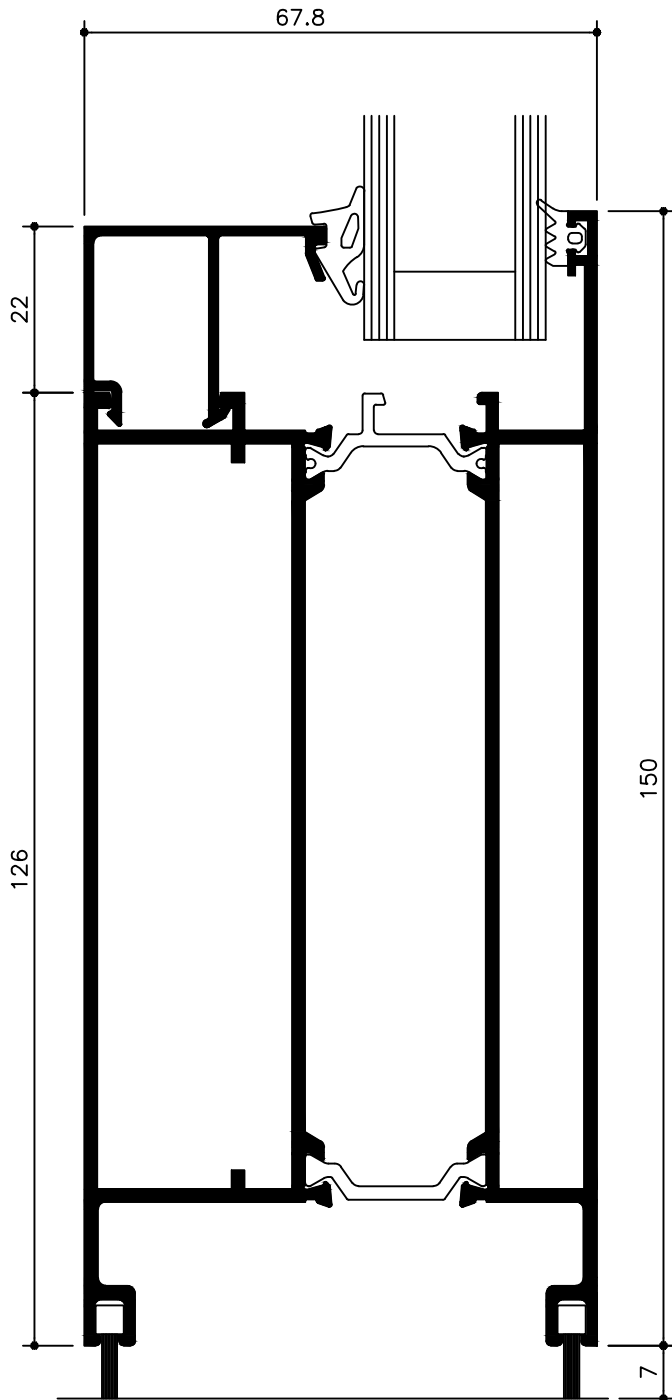
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للبناء الأخضر
QATAR GREEN
BUILDING COUNCIL
مجلس قطر
للمساحنة الخضراء
Member of Qatar Foundation

AQ128

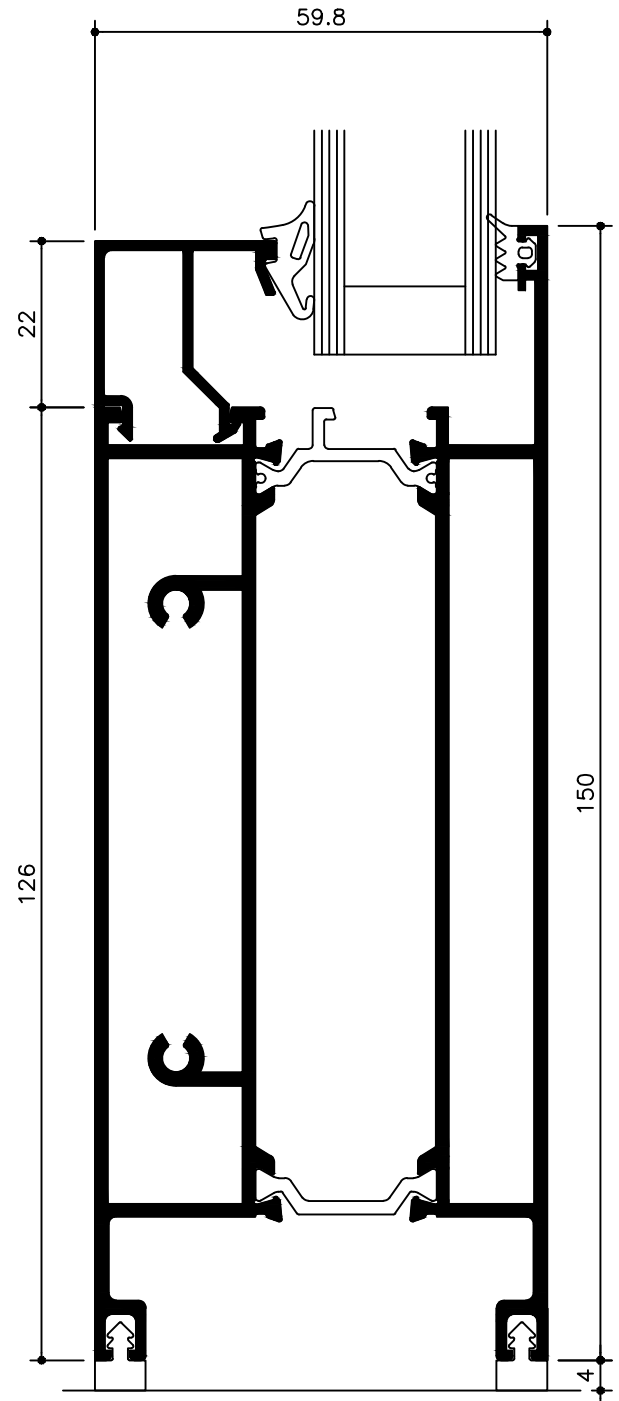


AQ129

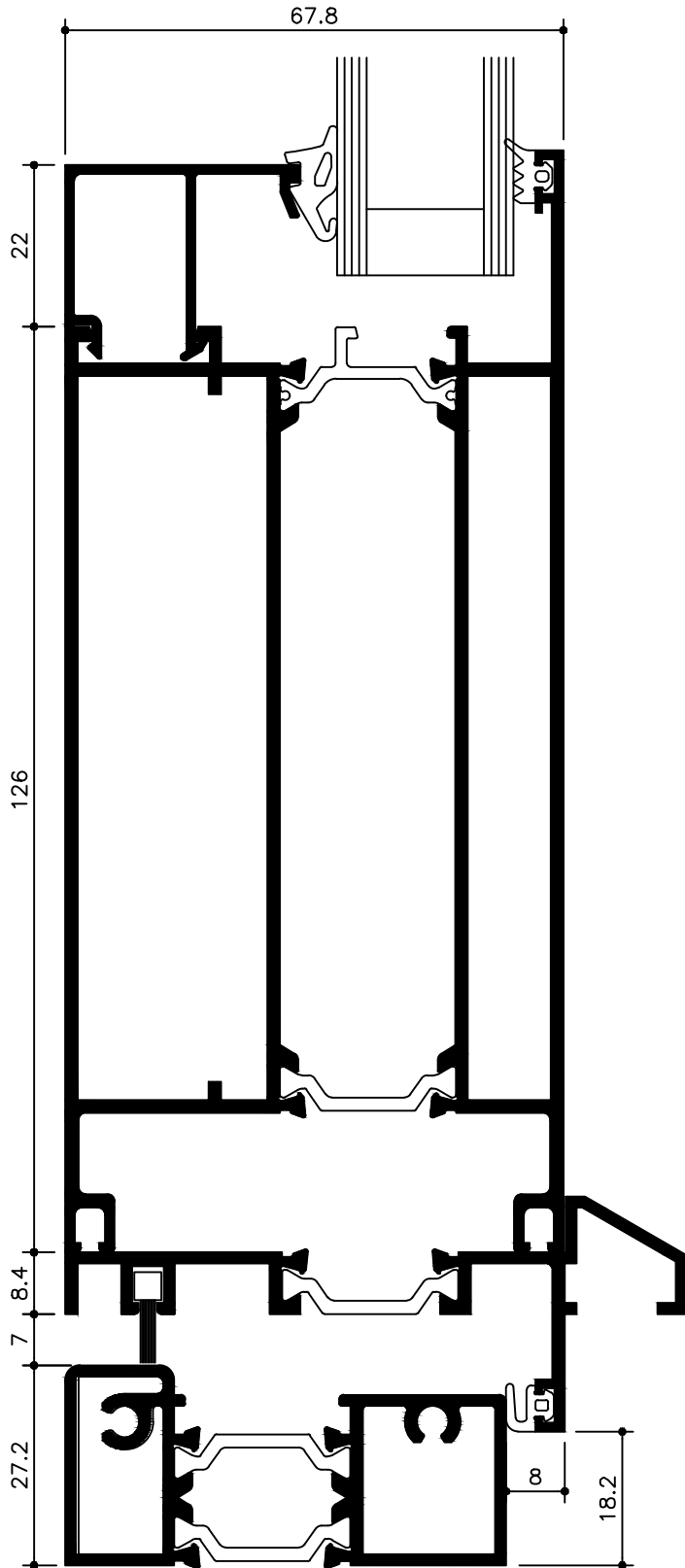
SECTOR I.20



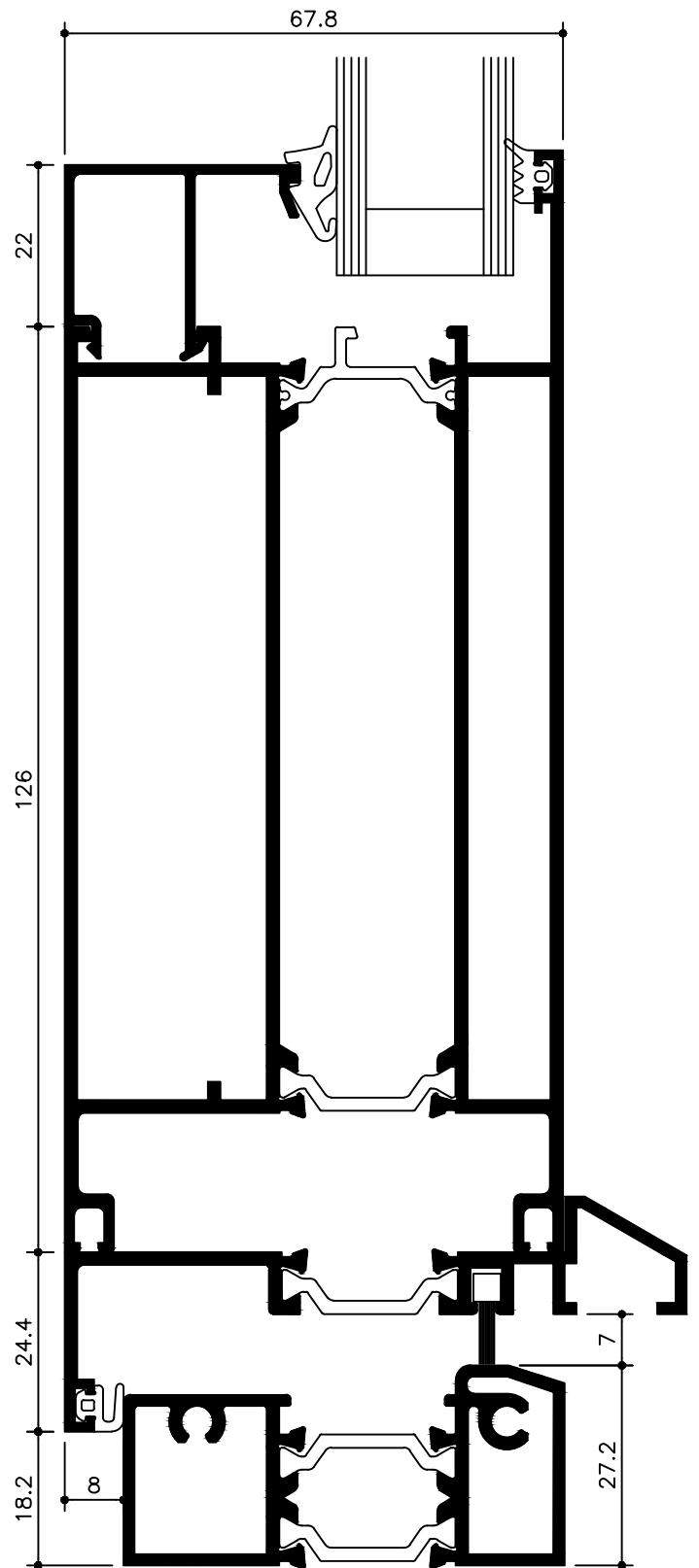
AQ130



AQ131



AQ132



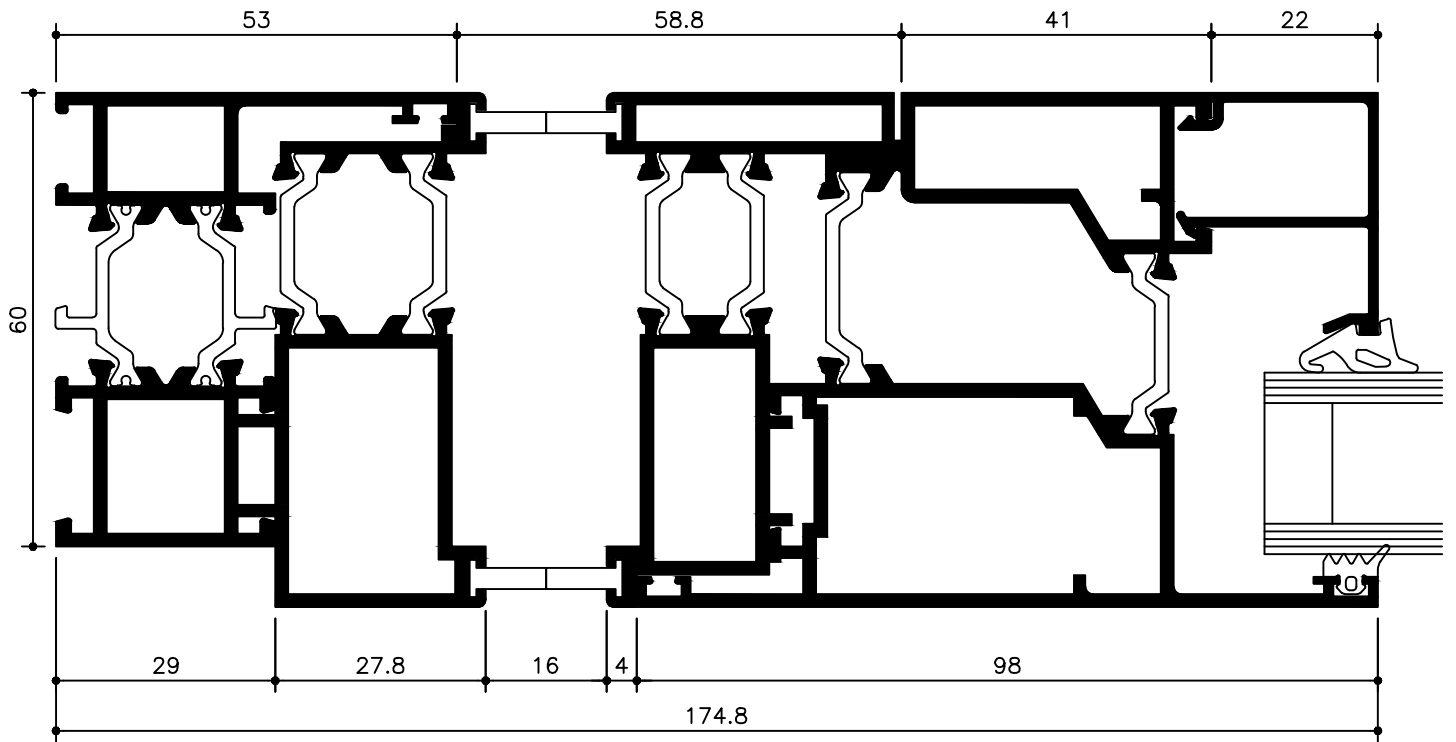
AQ133



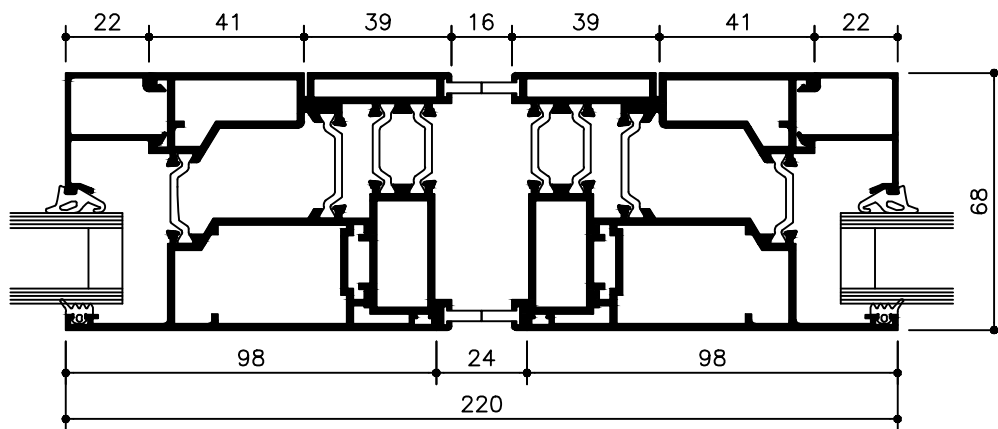
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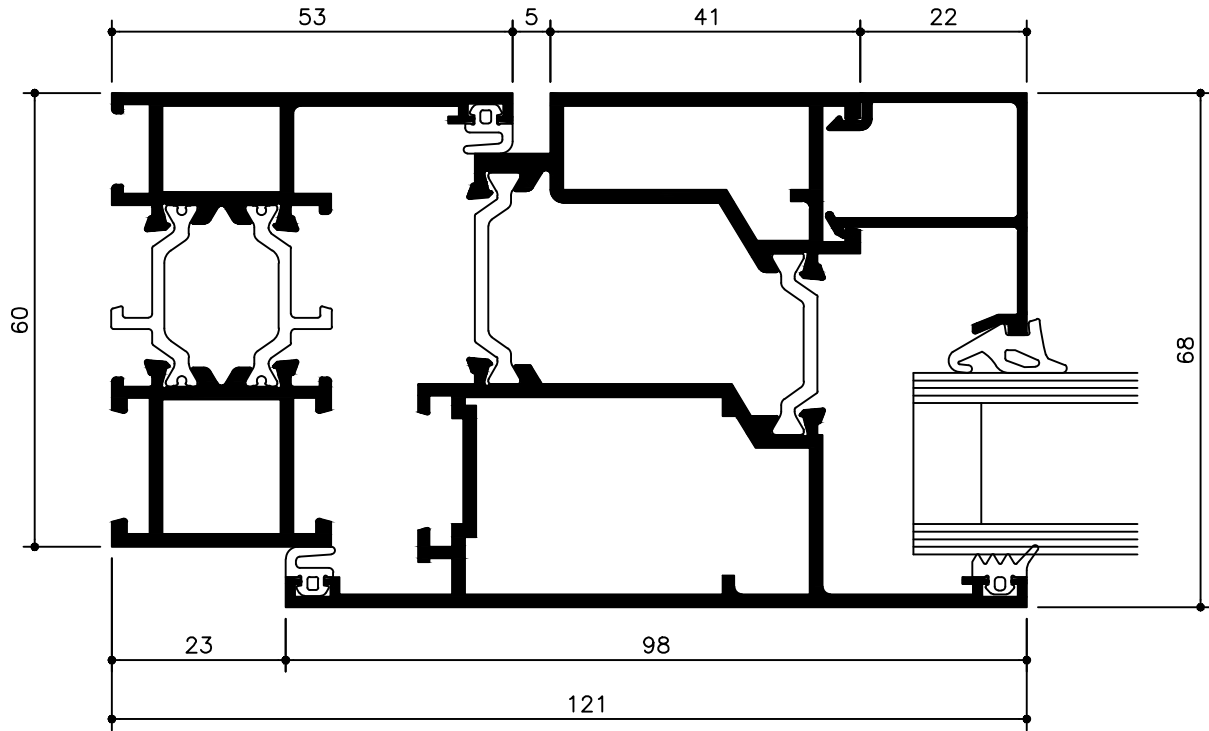
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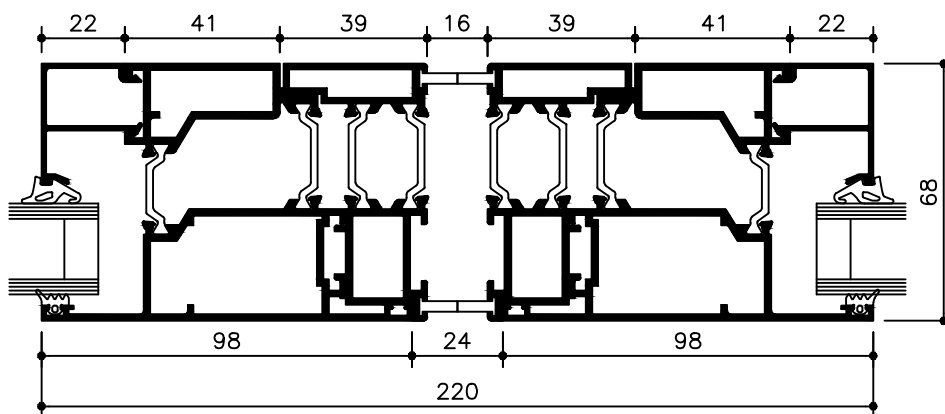
SCALE 1:2

AQ135

SECTOR I.23



AQ127

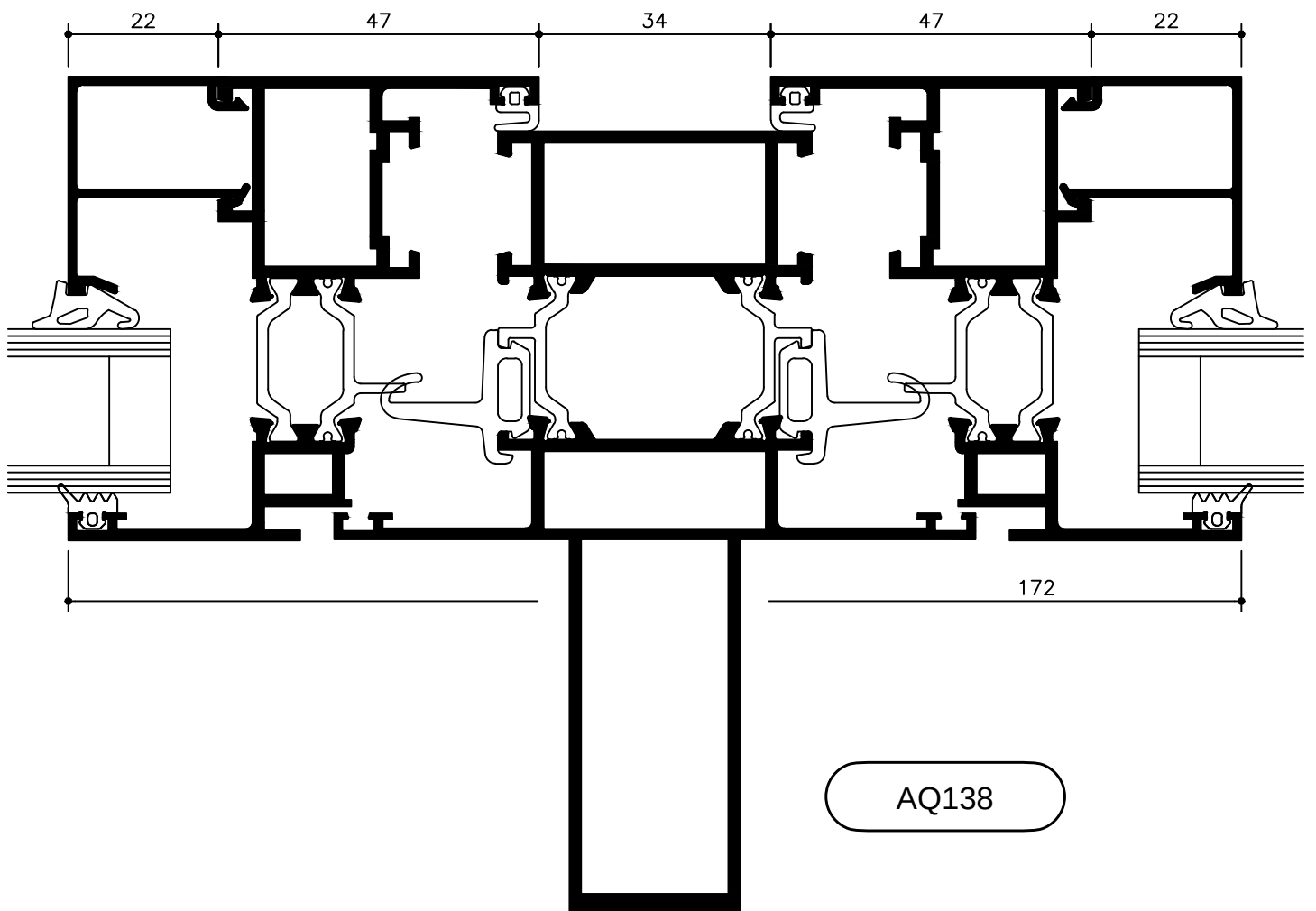
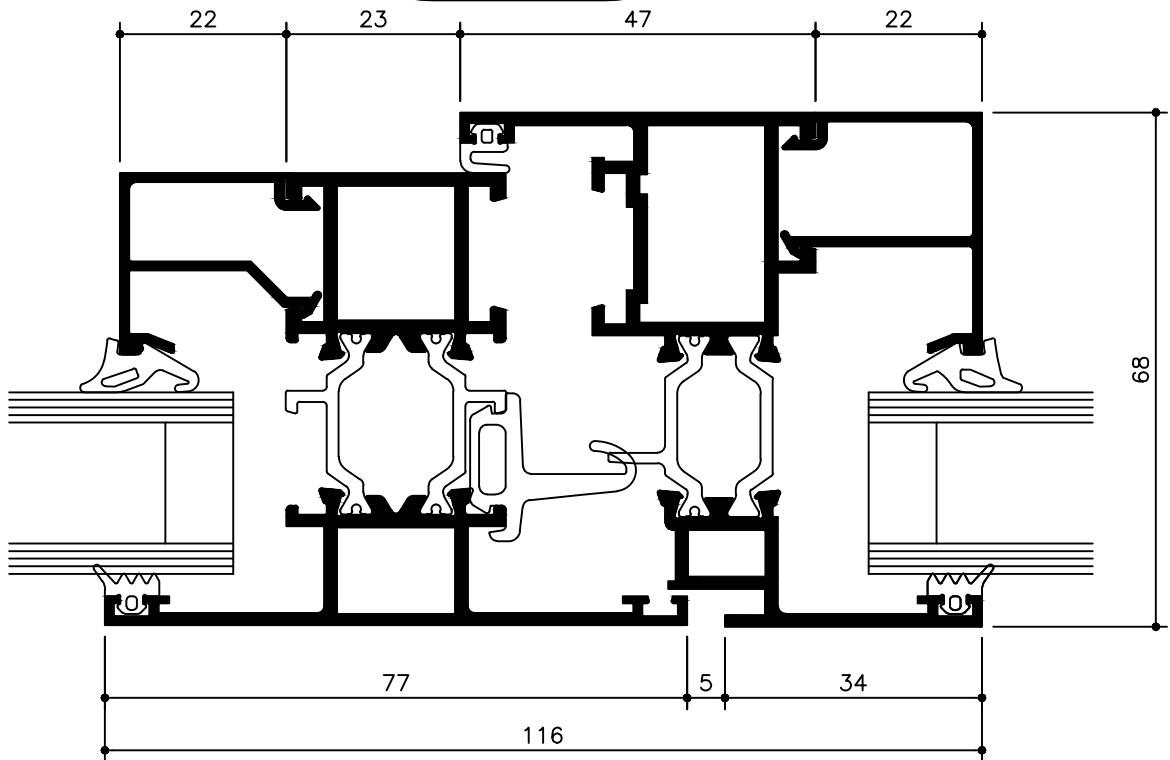


SCALE 1:2

AQ136

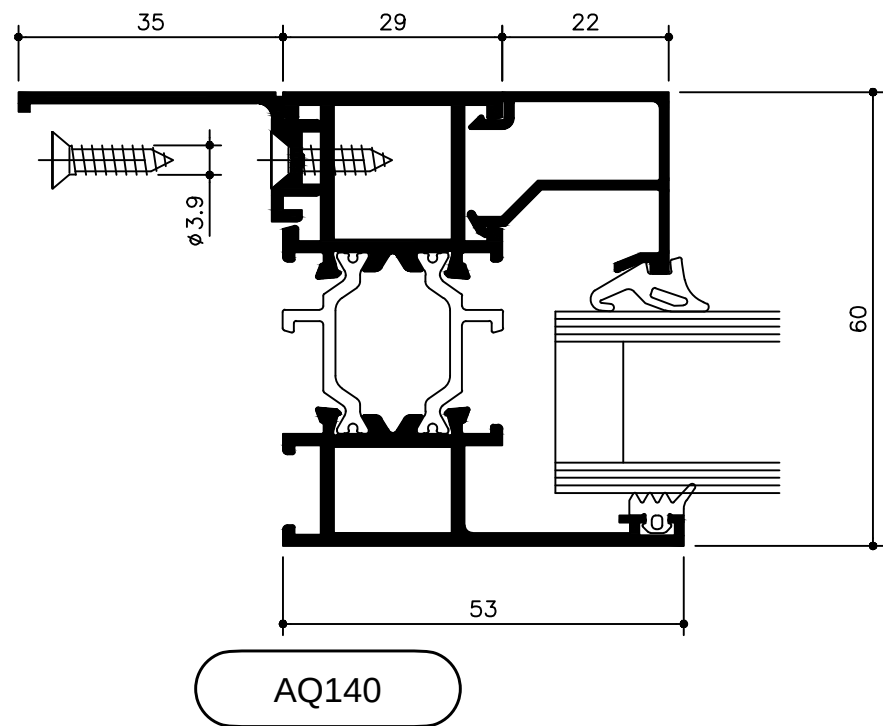
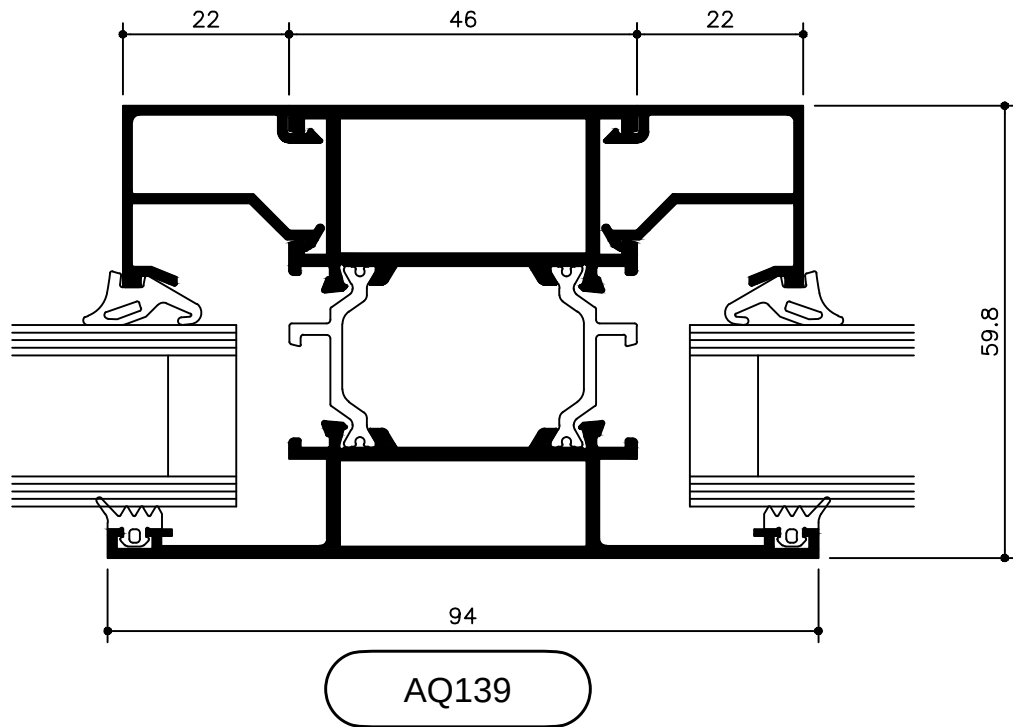


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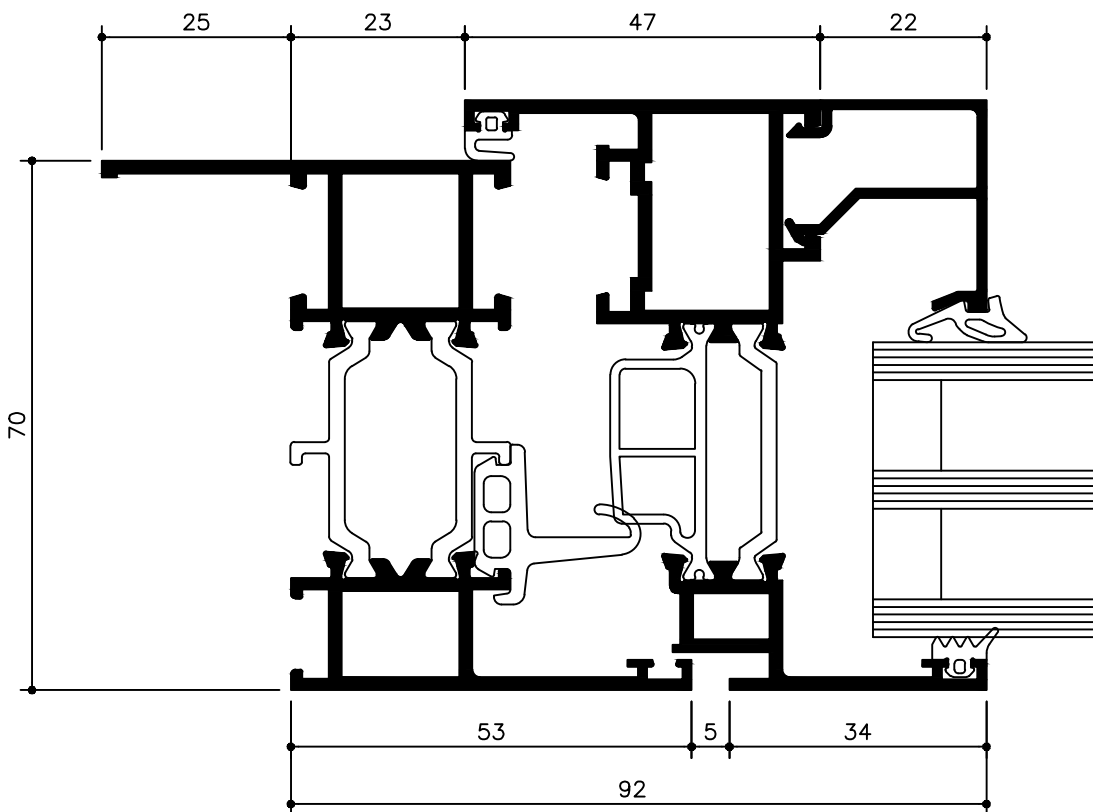
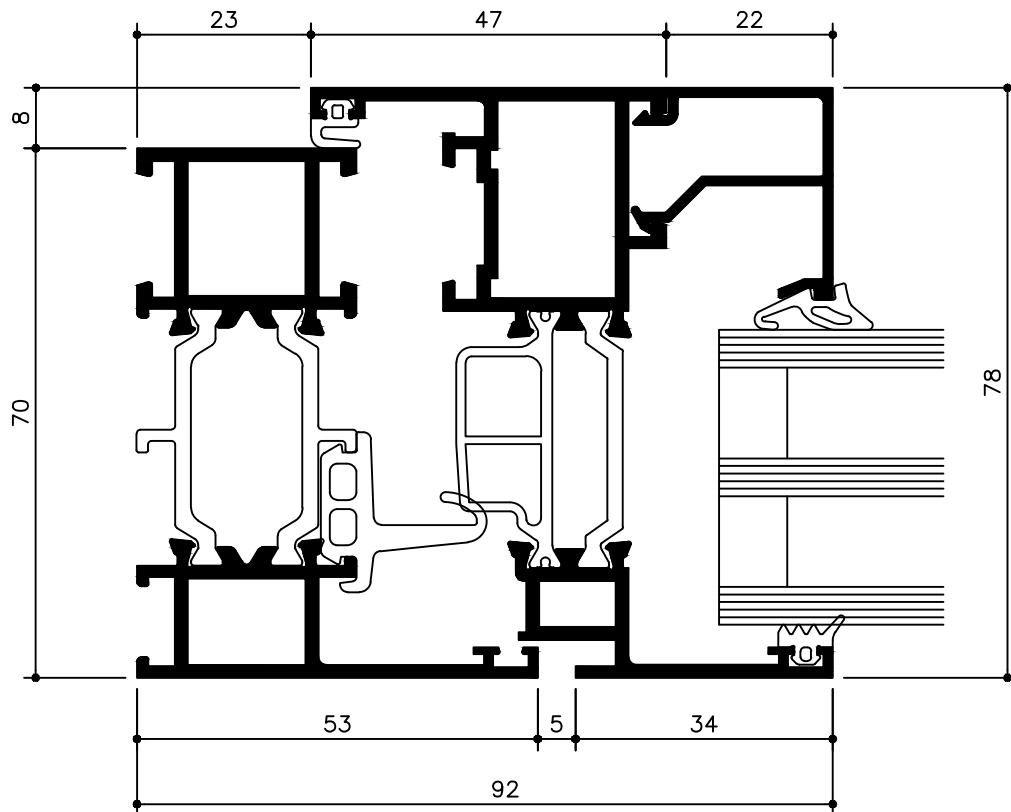
AQ138

SECTOR I.25

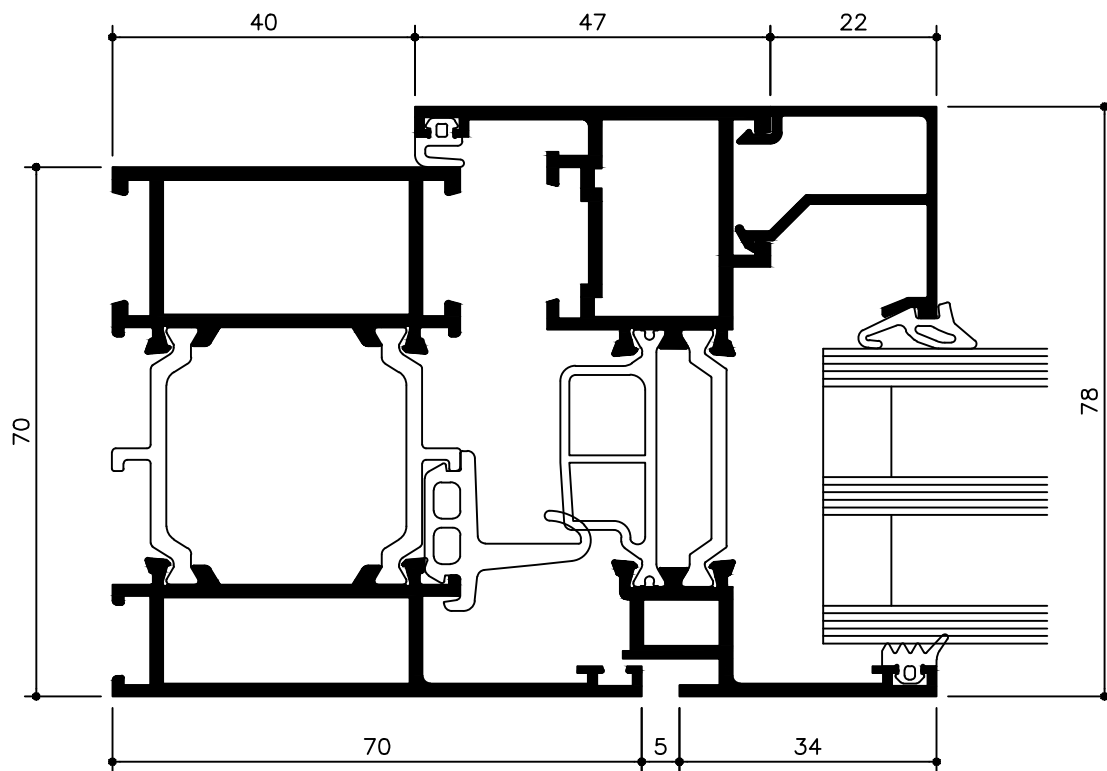
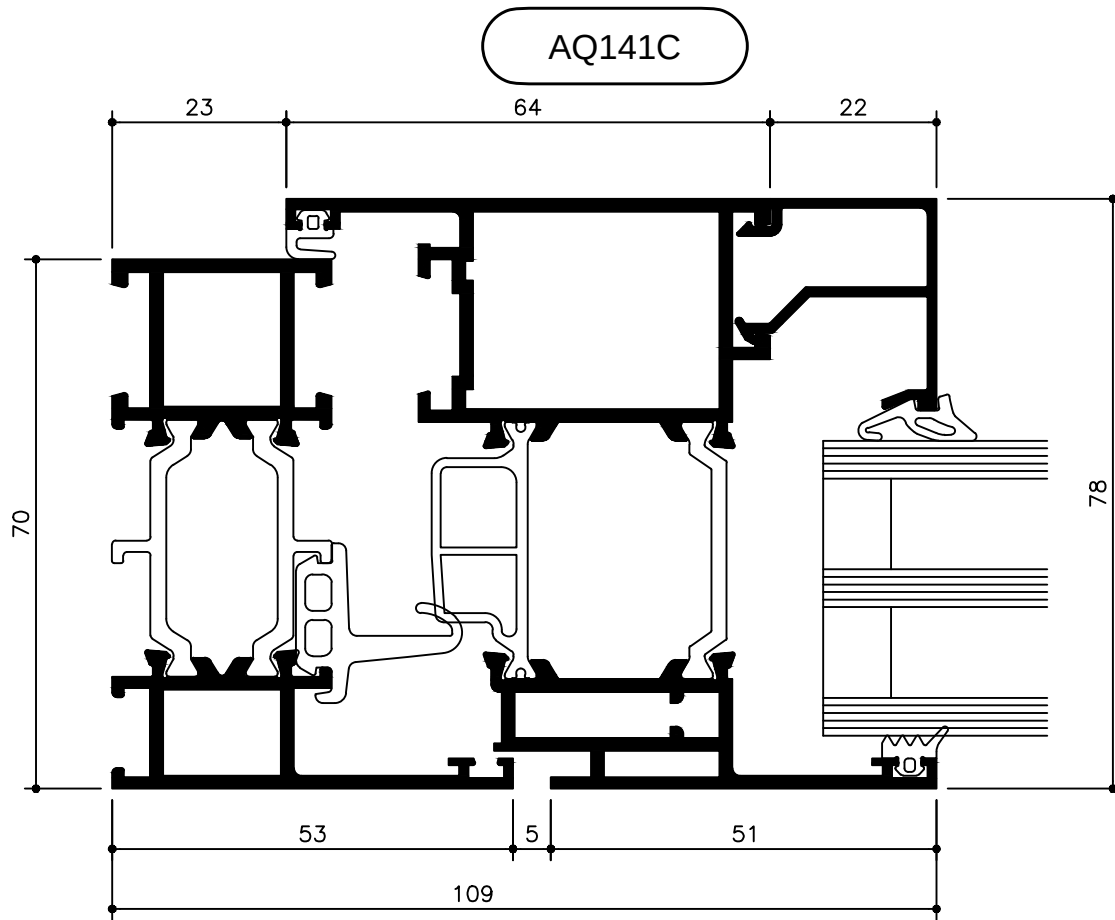




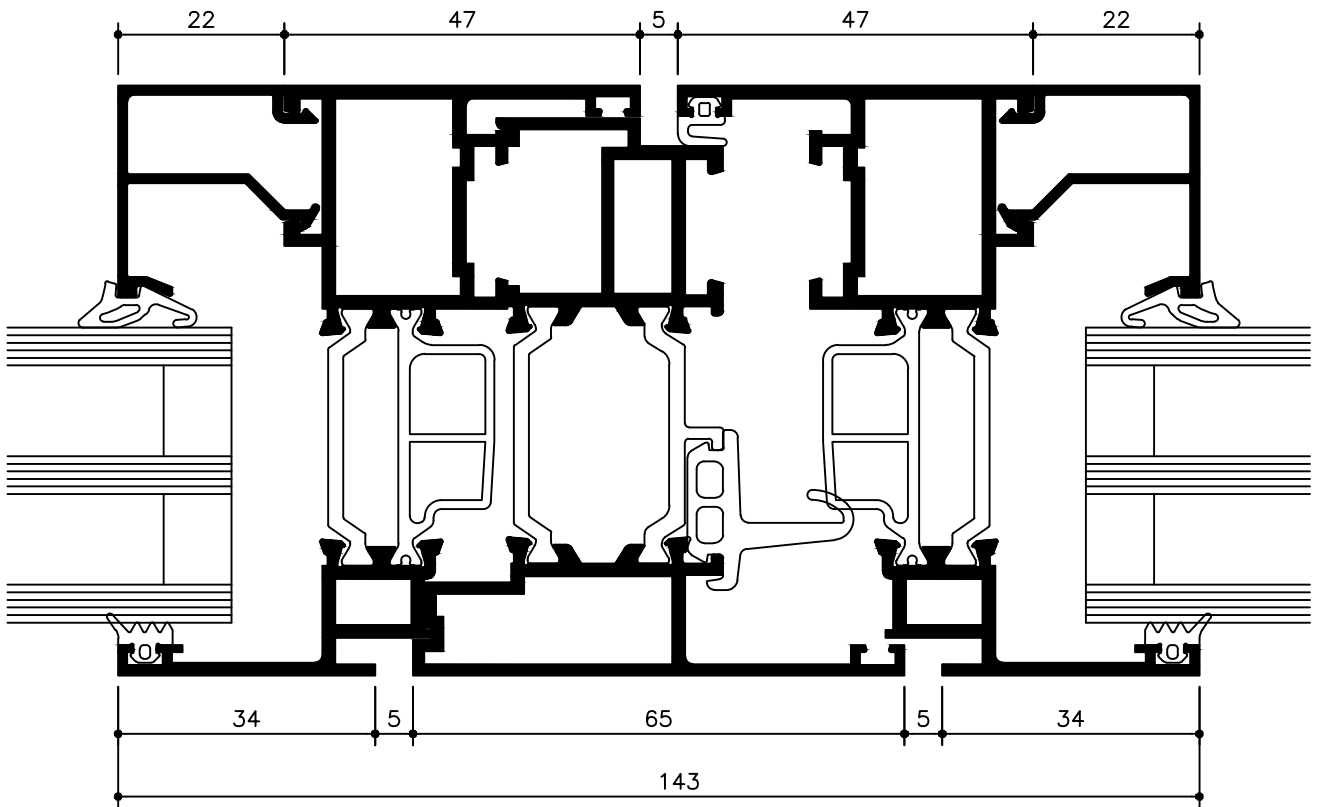
AQ141A



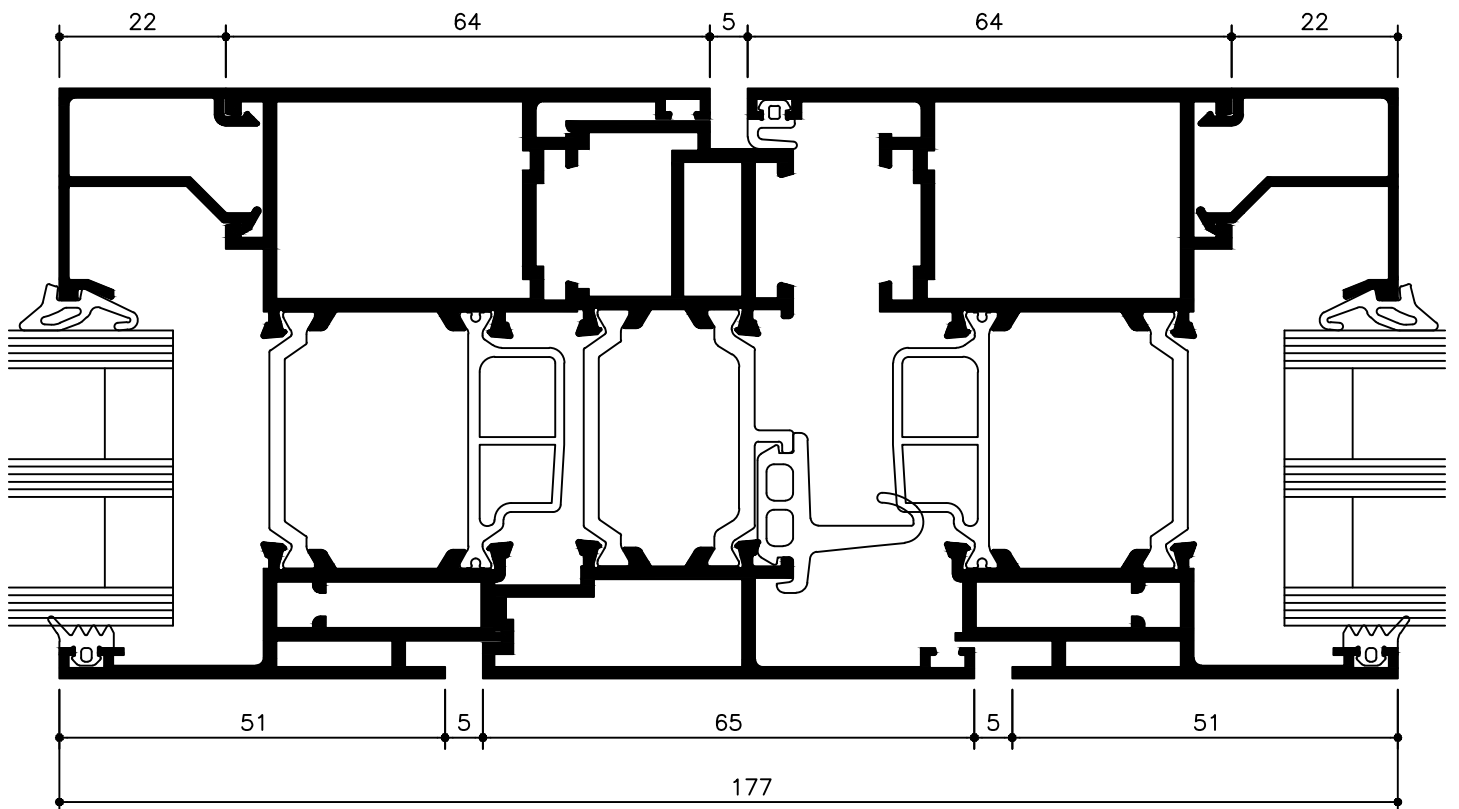
AQ141B



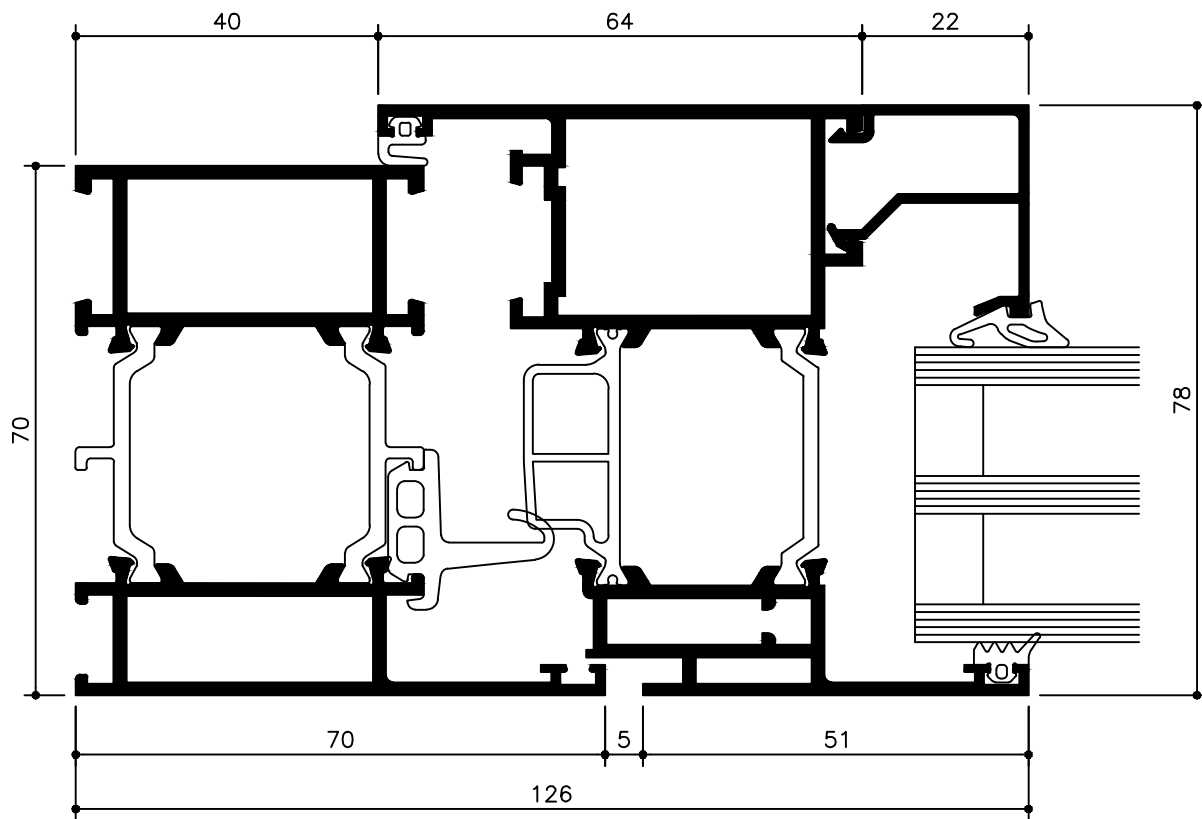
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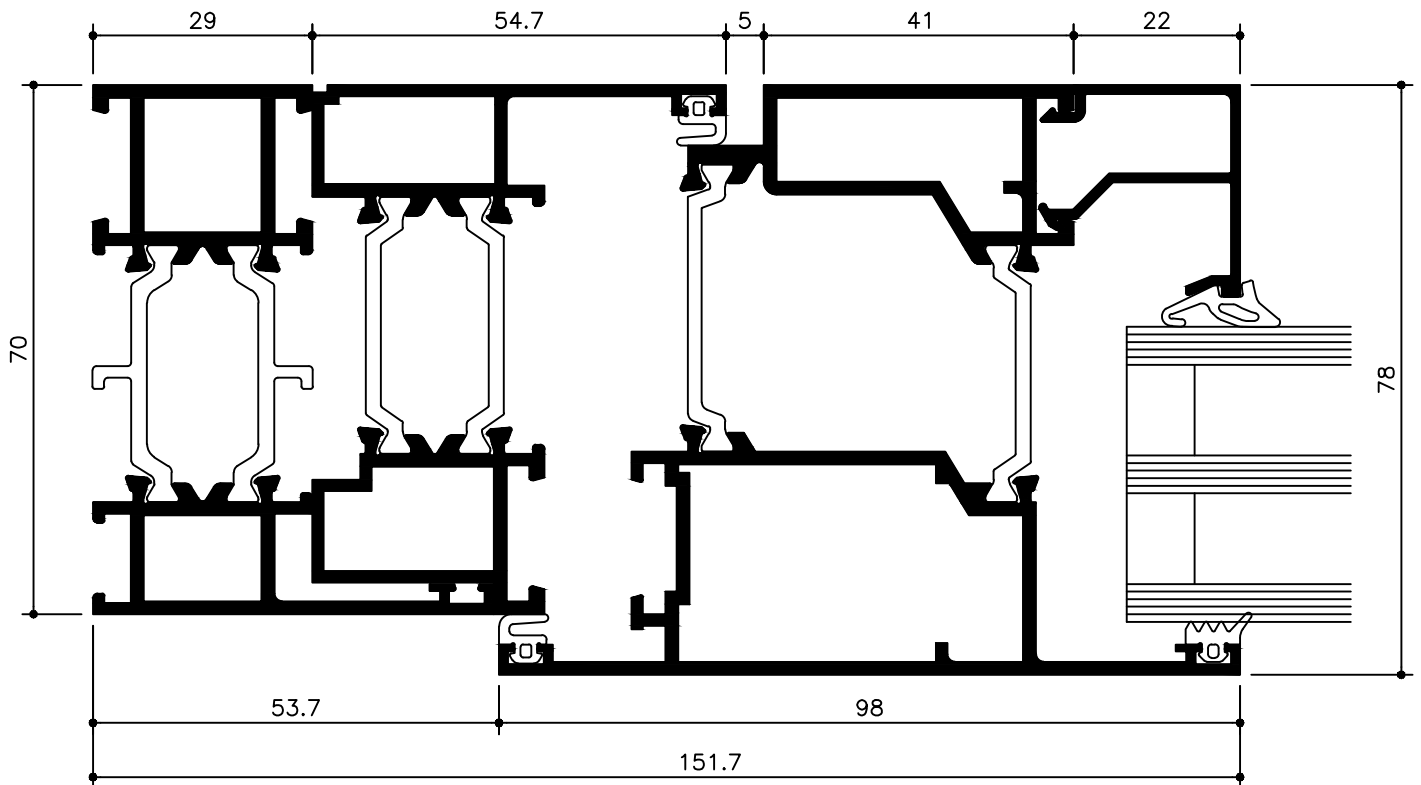
AQ142A



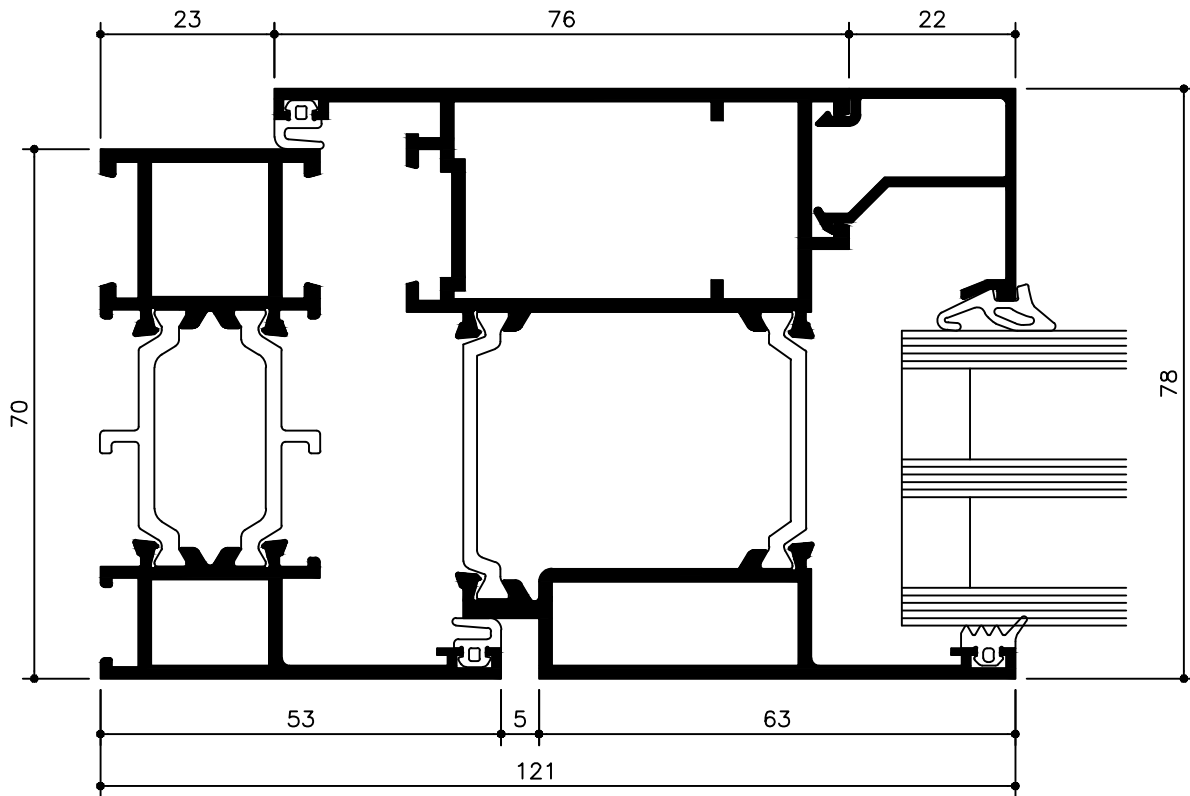
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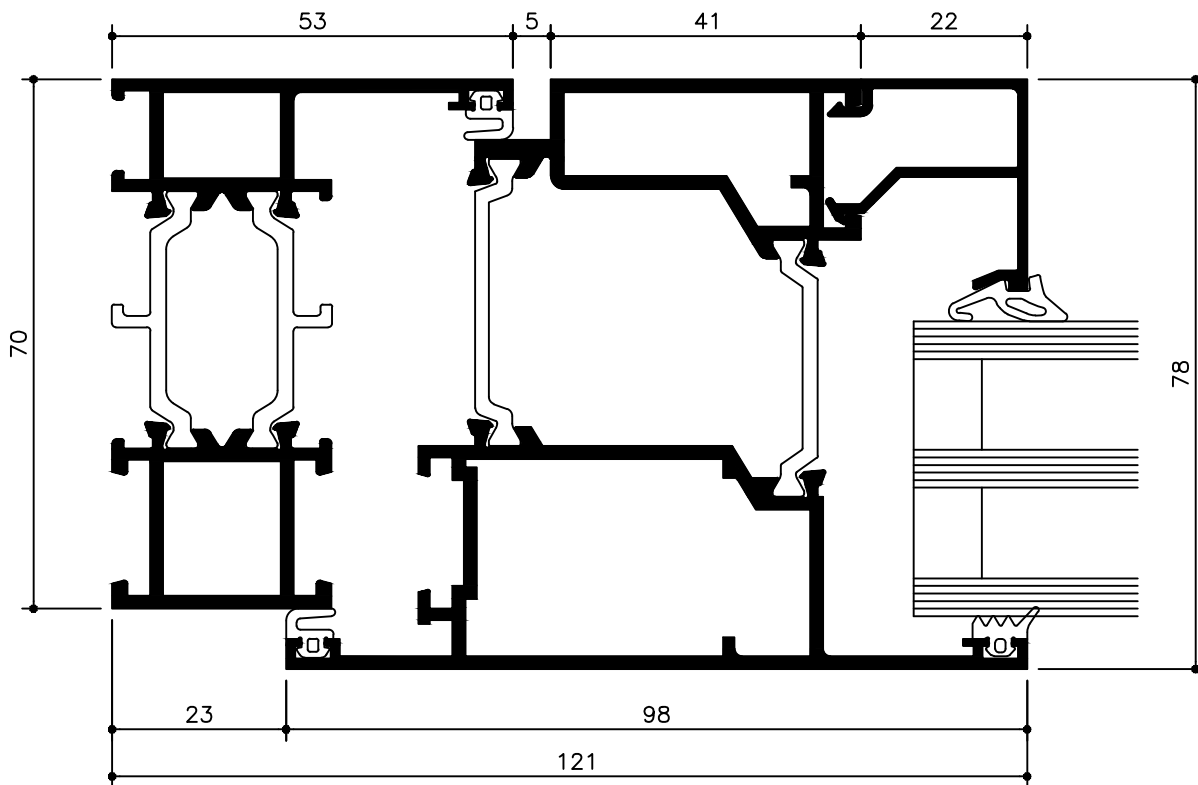
AQ141E



AQ143



AQ144



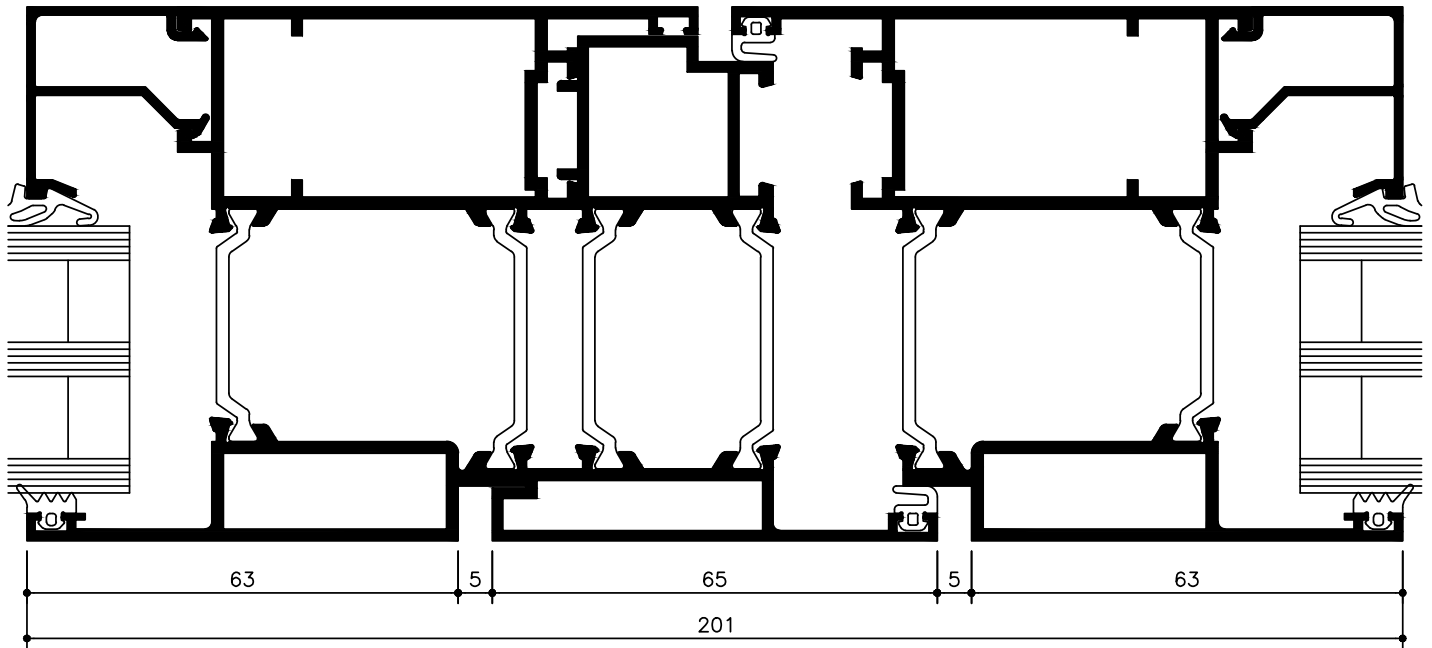
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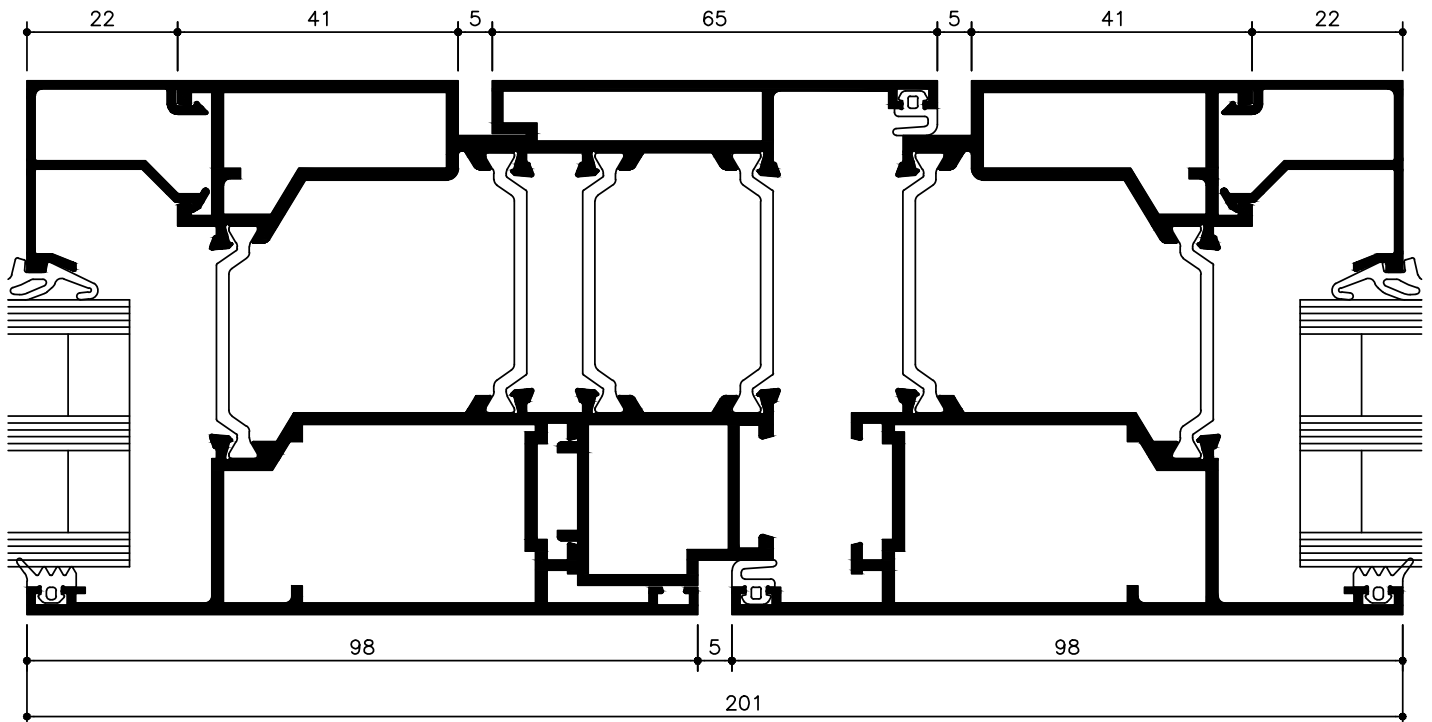
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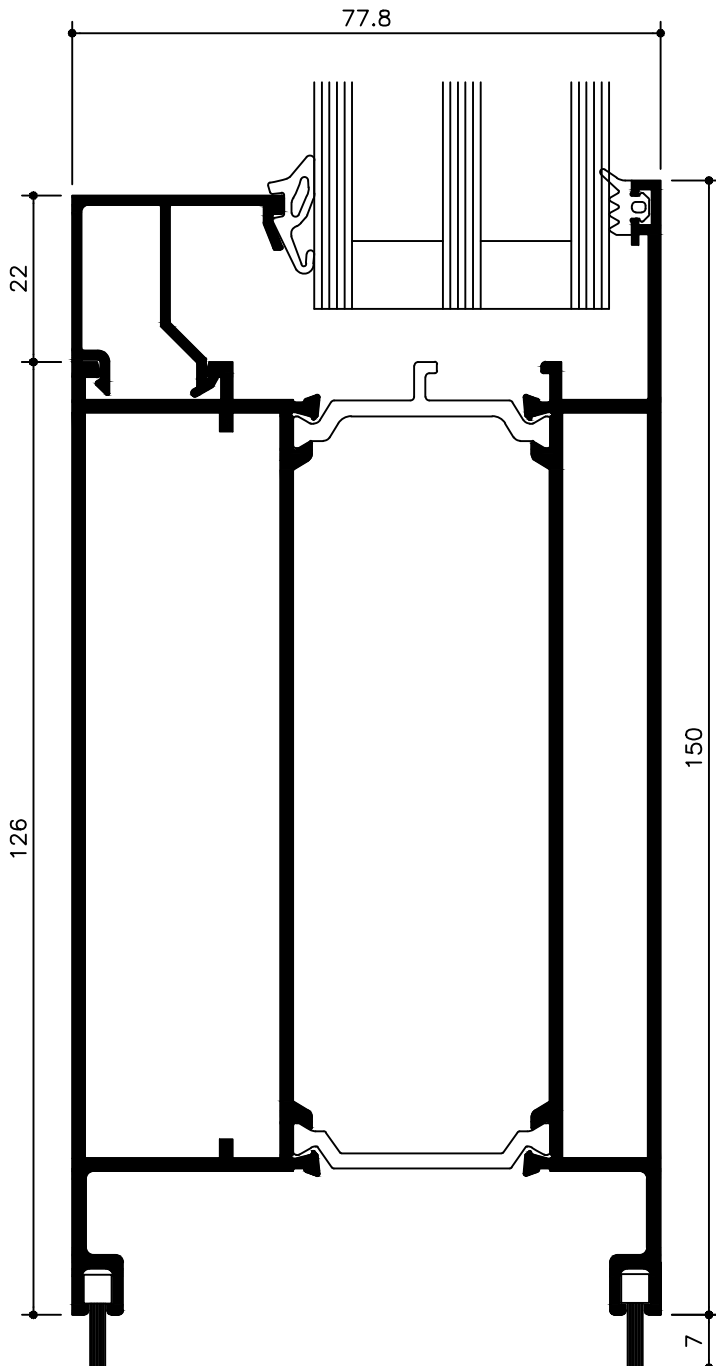


AQ146

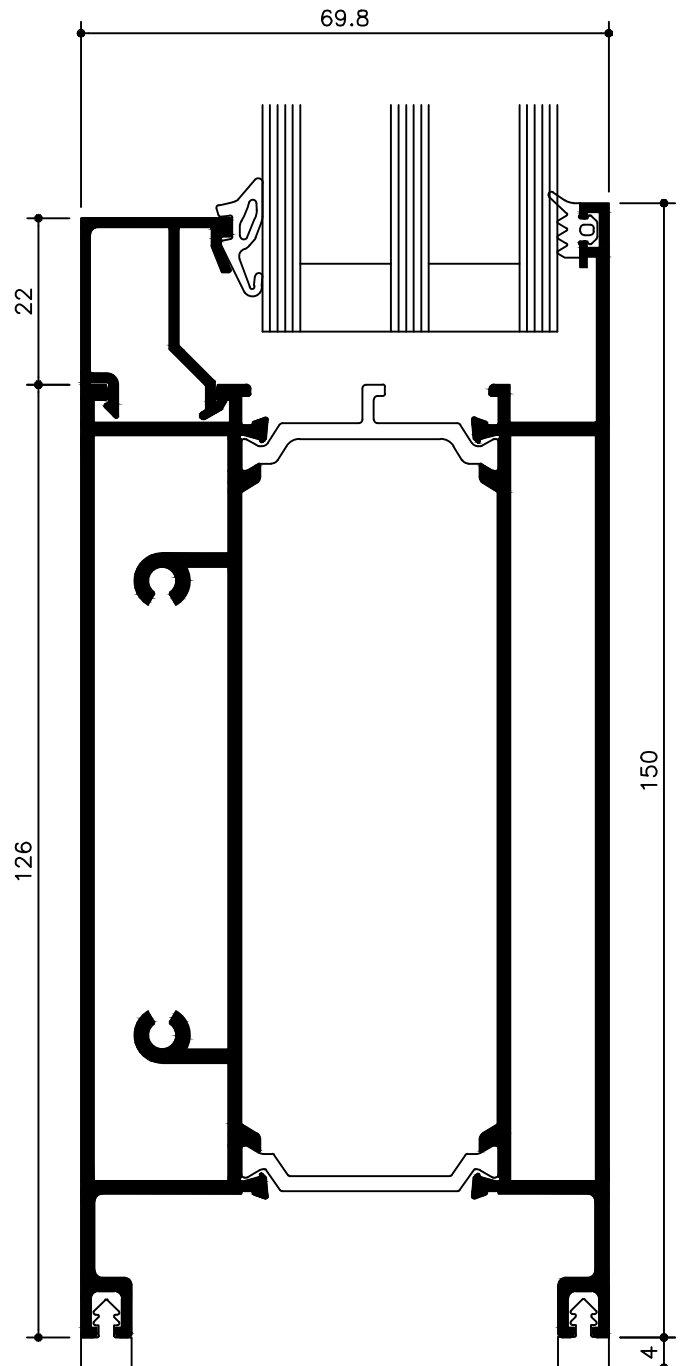


AQ147

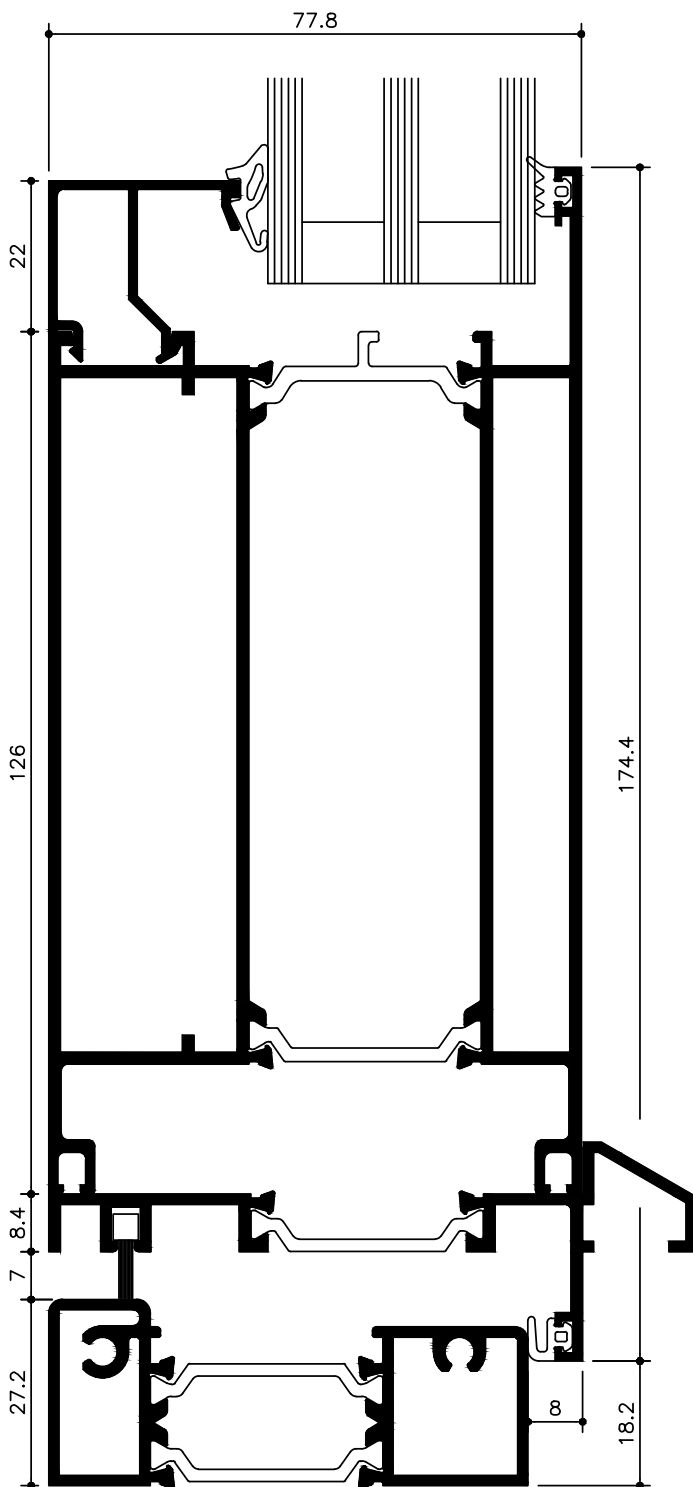
SECTOR I.32



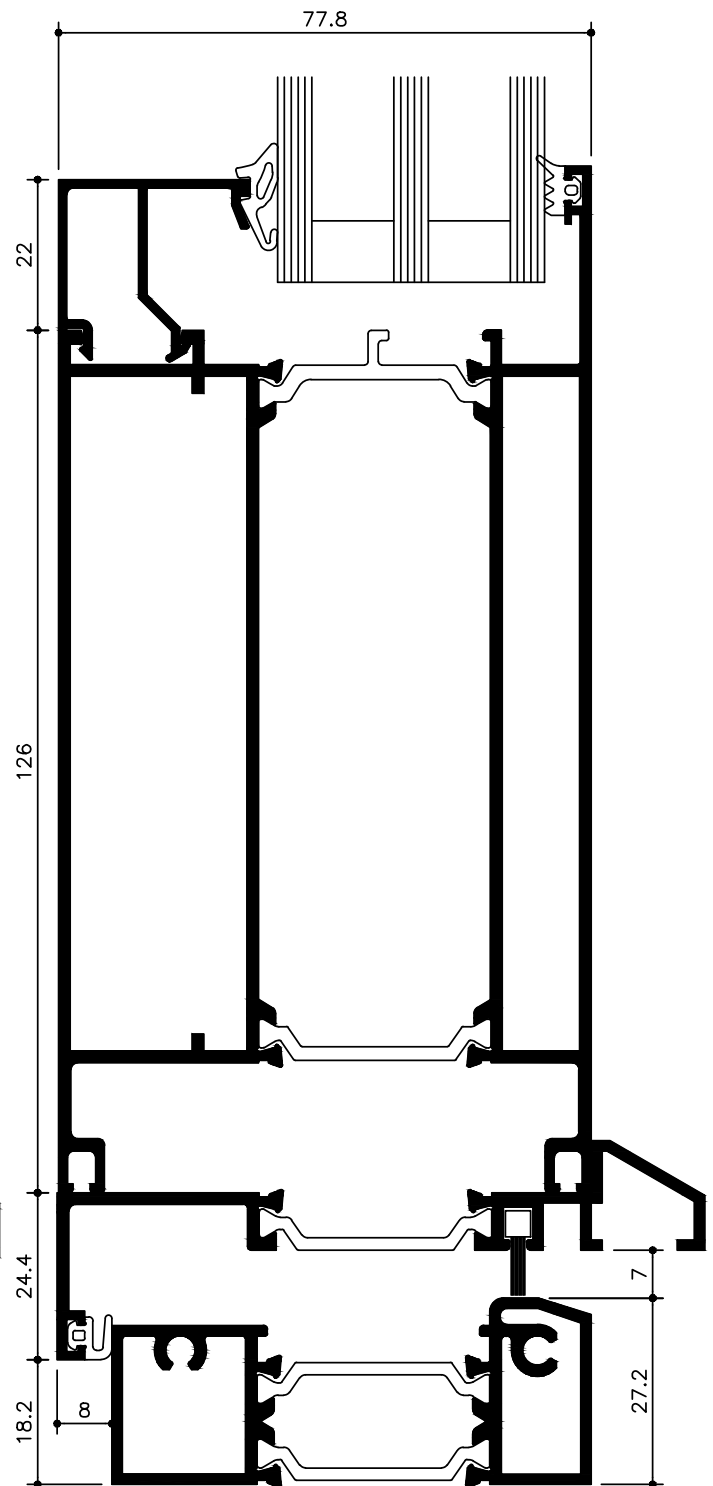
AQ148



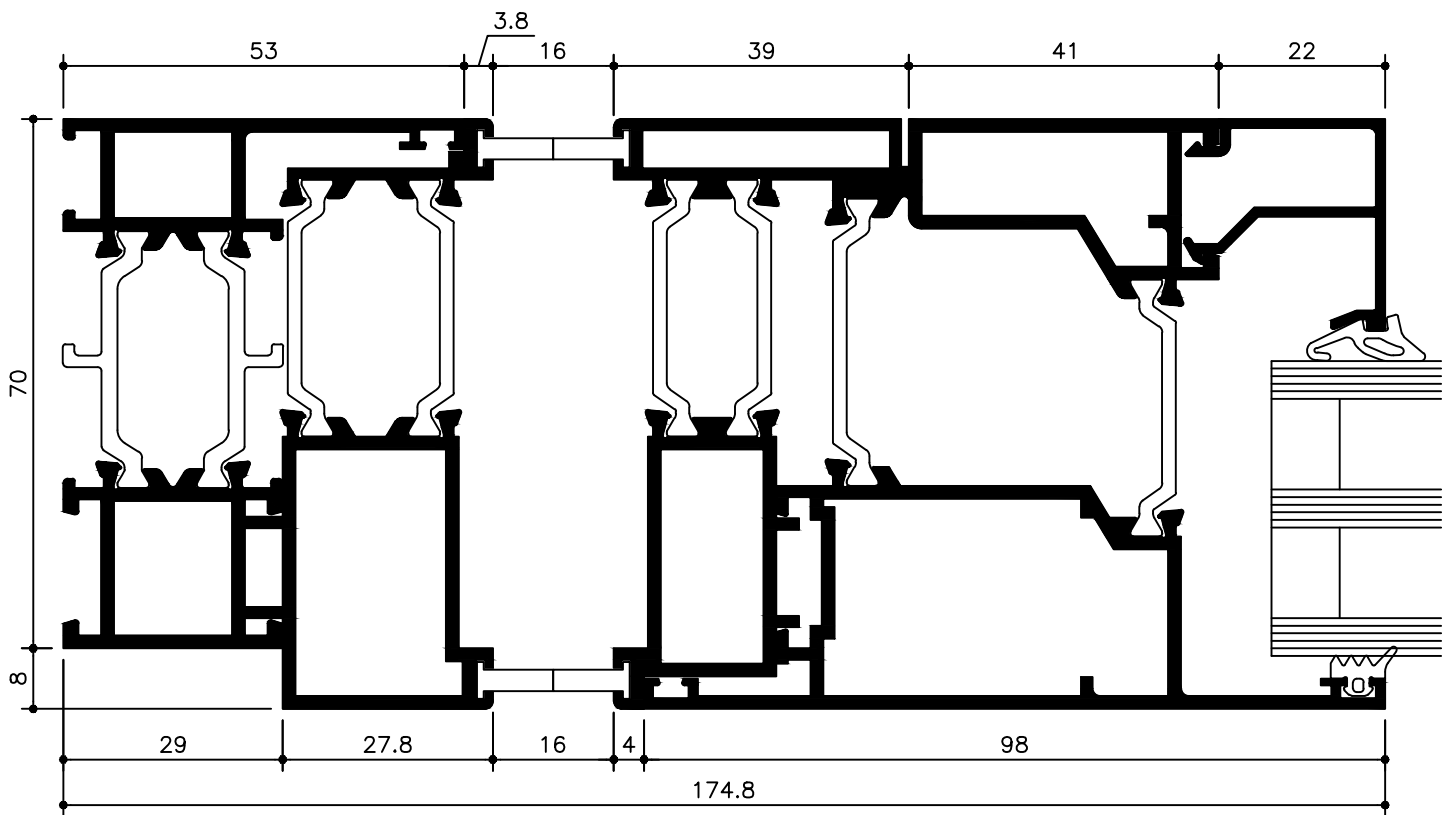
AQ149



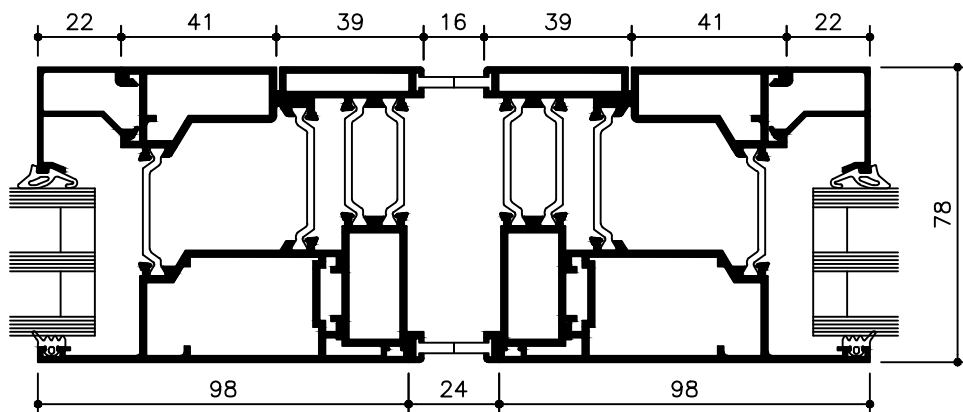
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AQ151

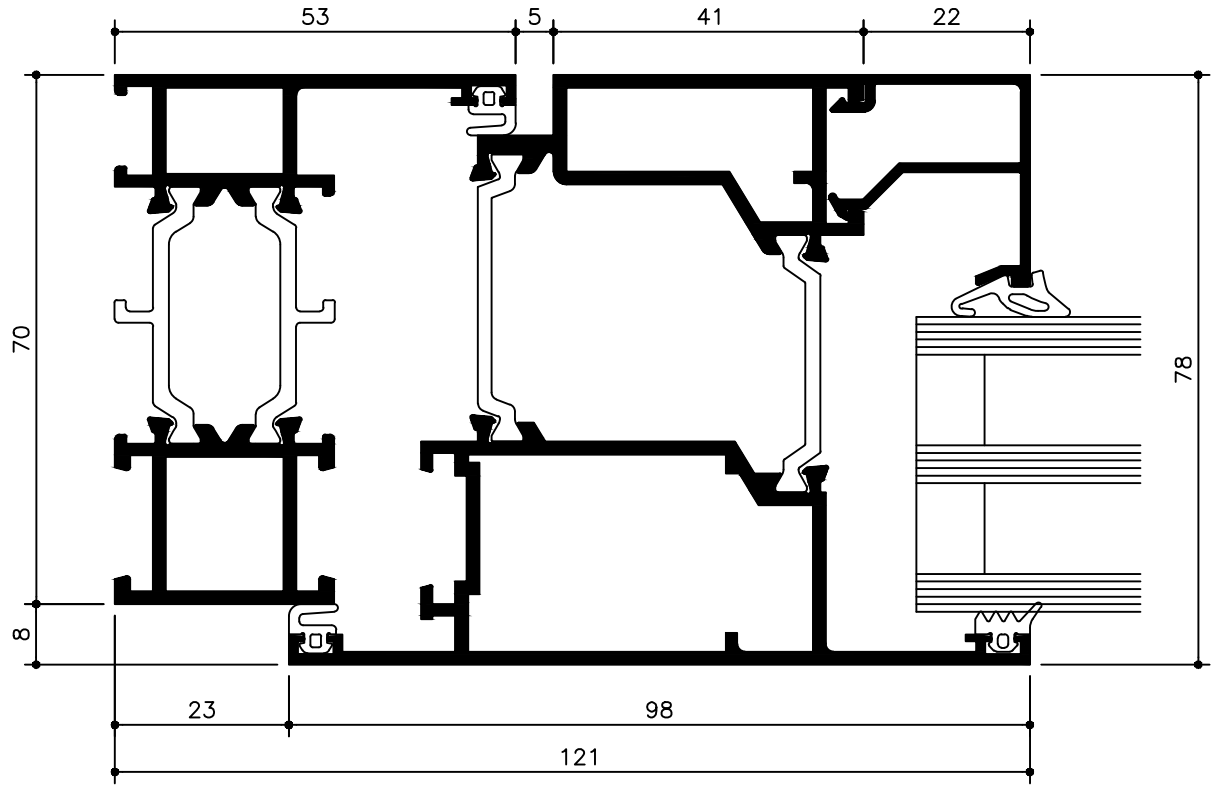


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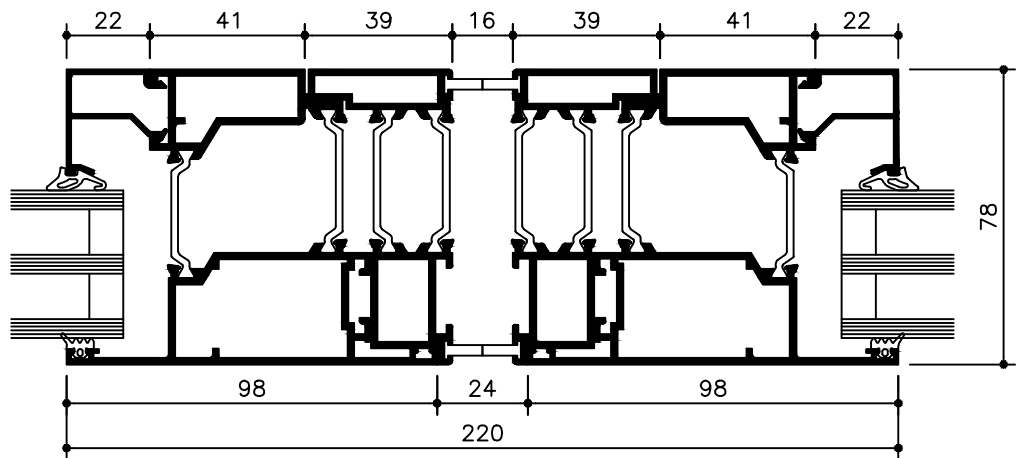


SCALE 1:2

AQ153

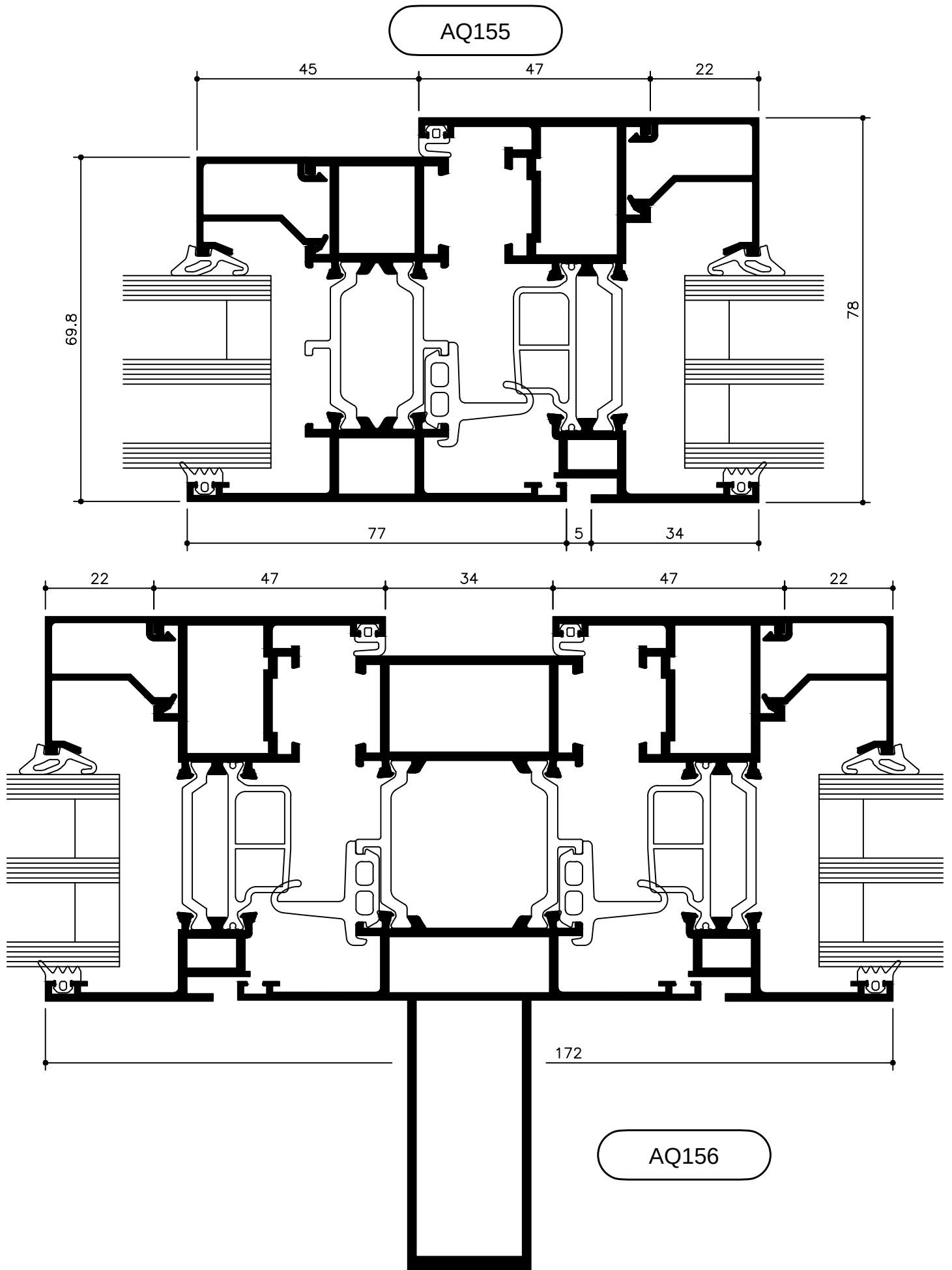


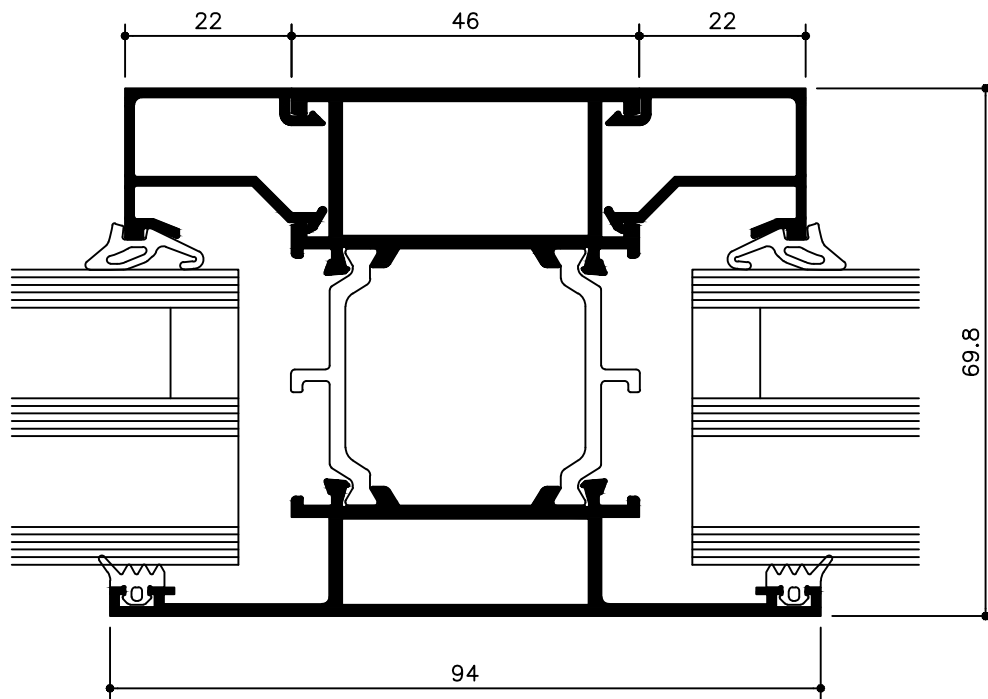
AQ145



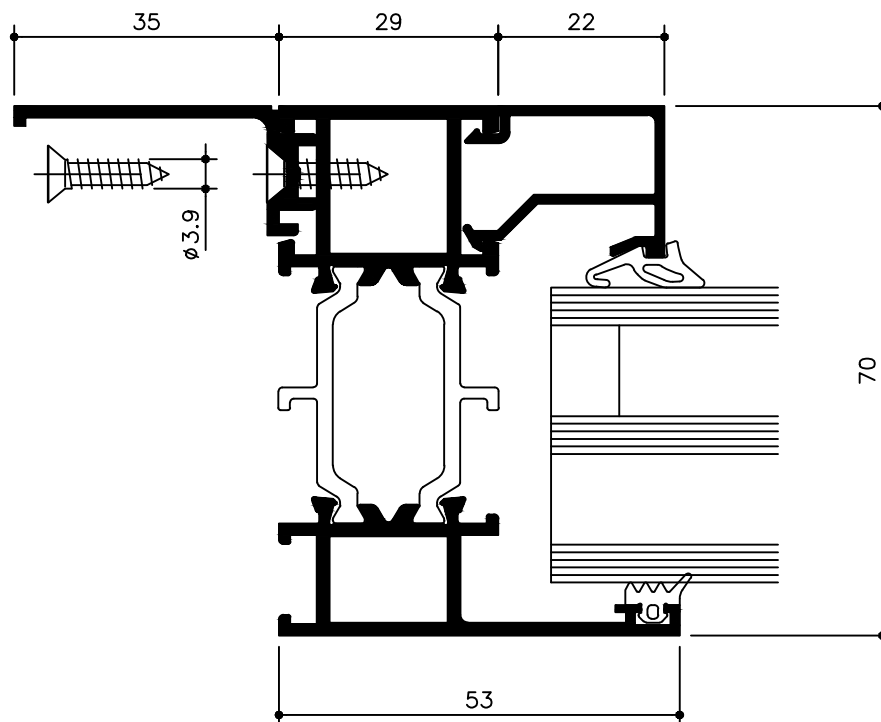
SCALE 1:2

AQ154

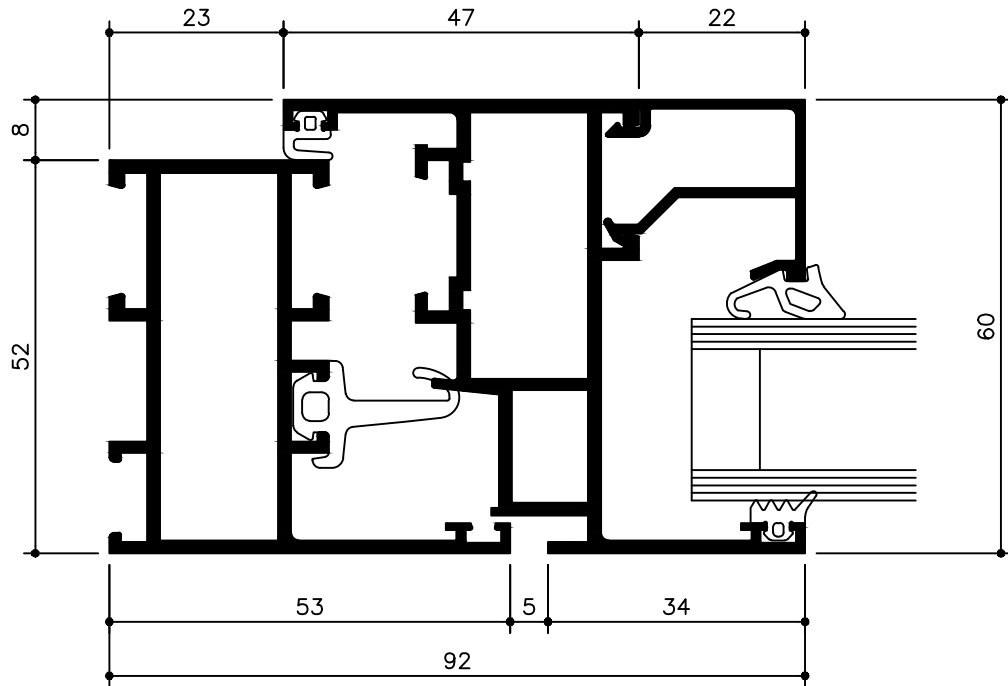




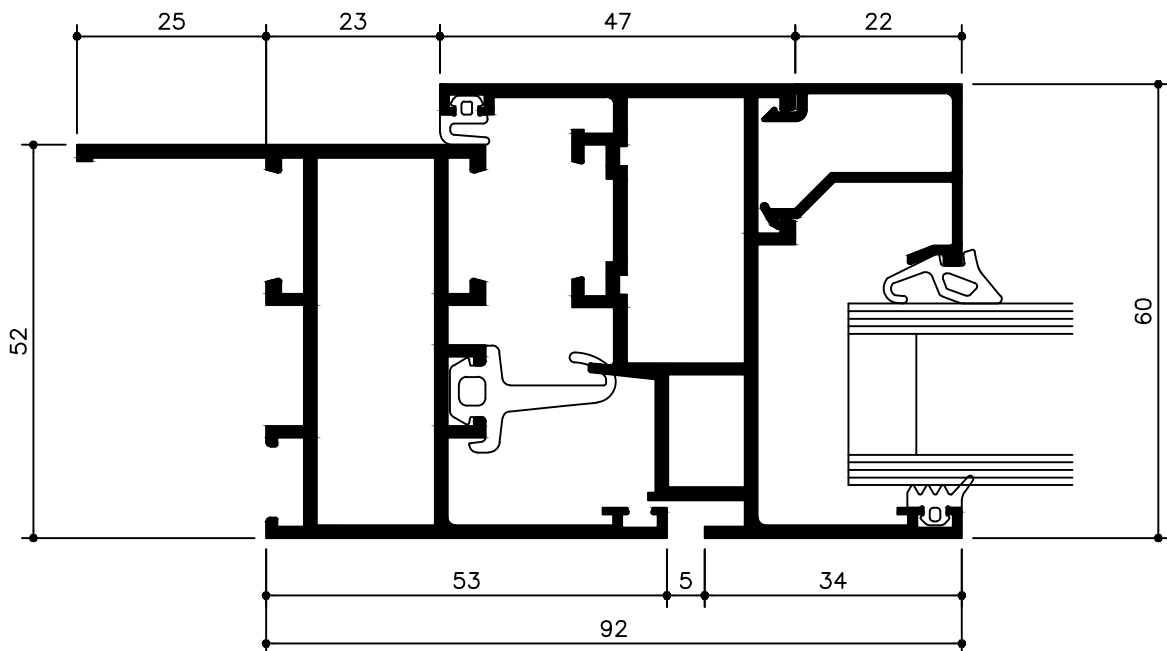
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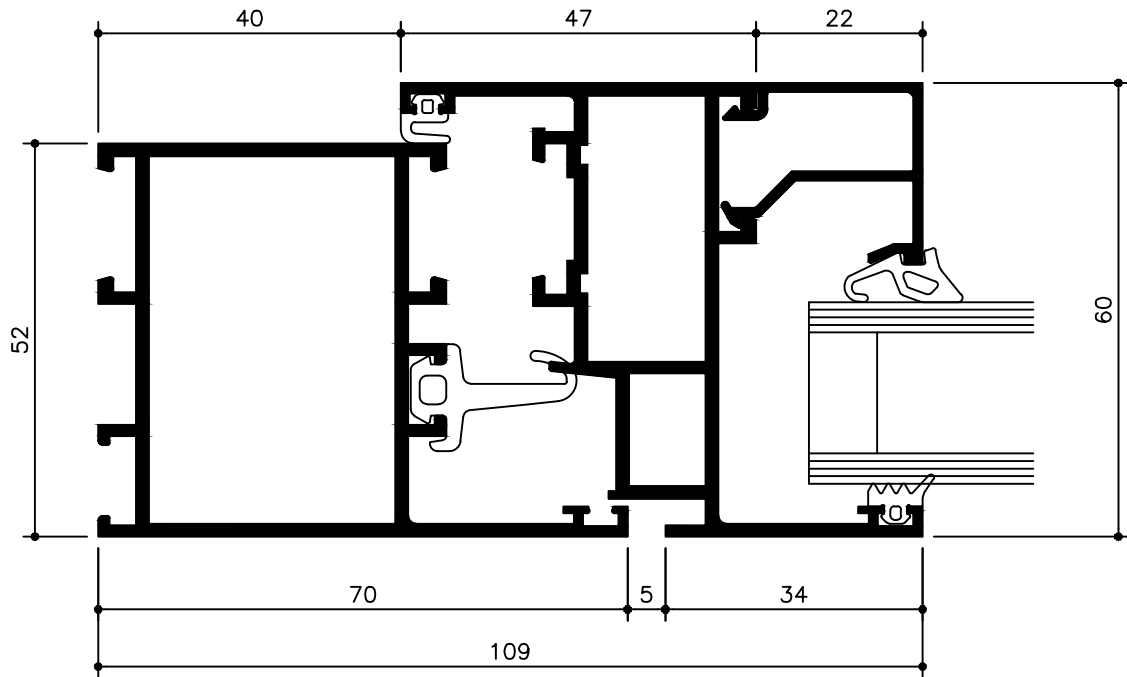
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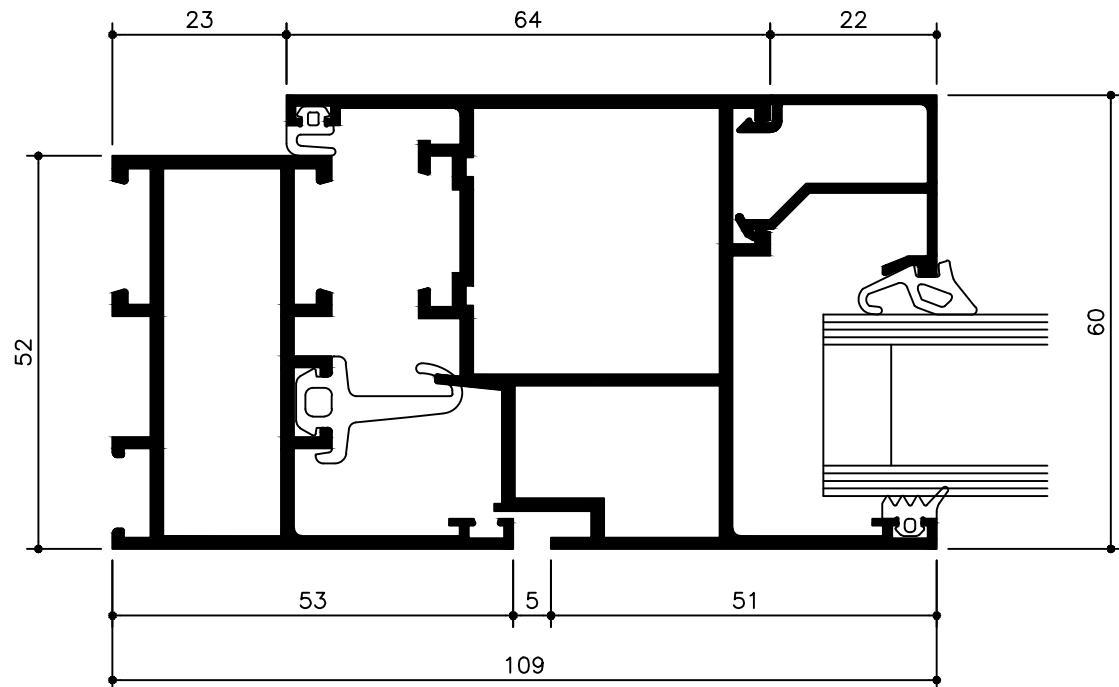
AQ159A



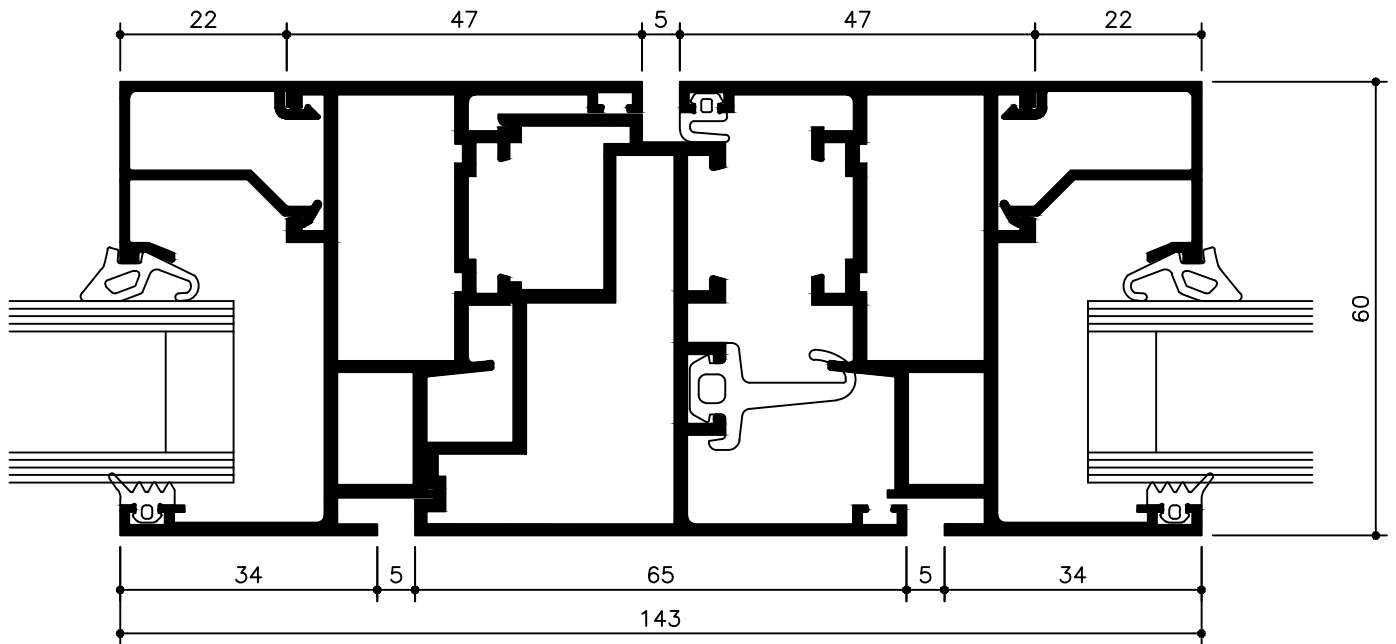
AQ159B



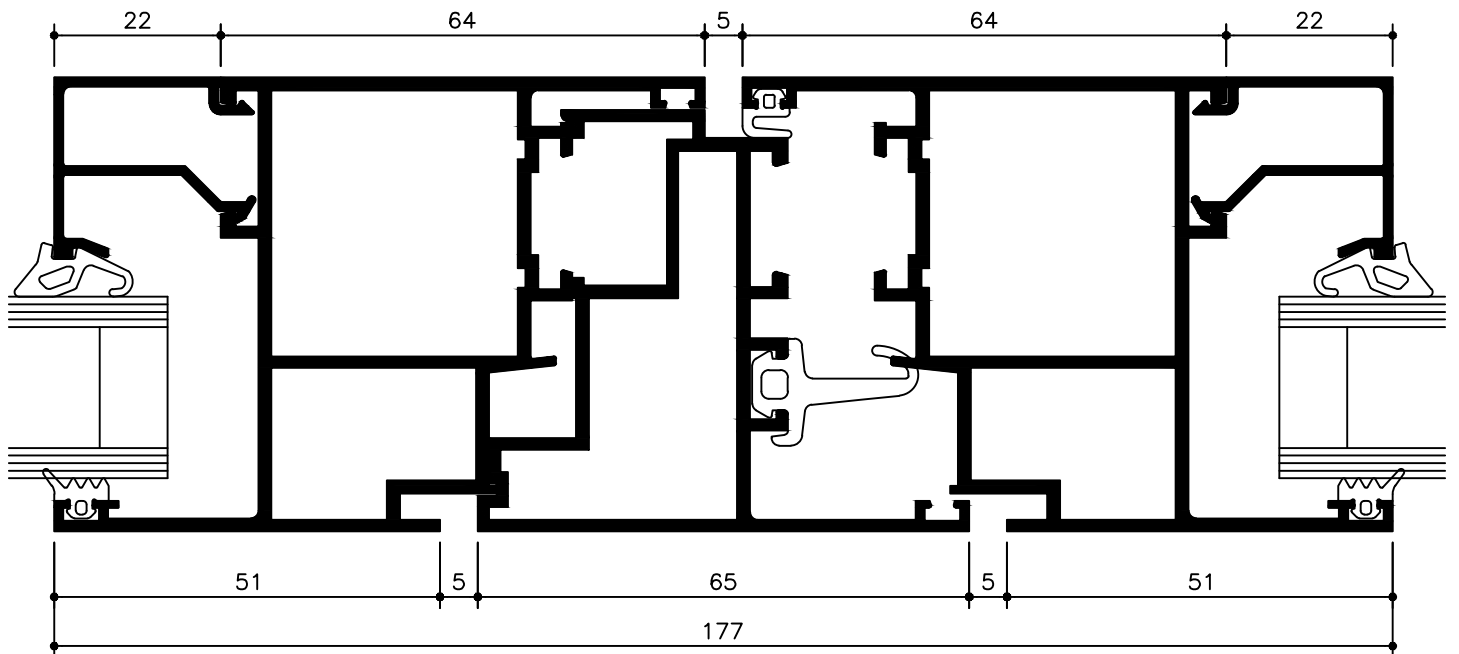
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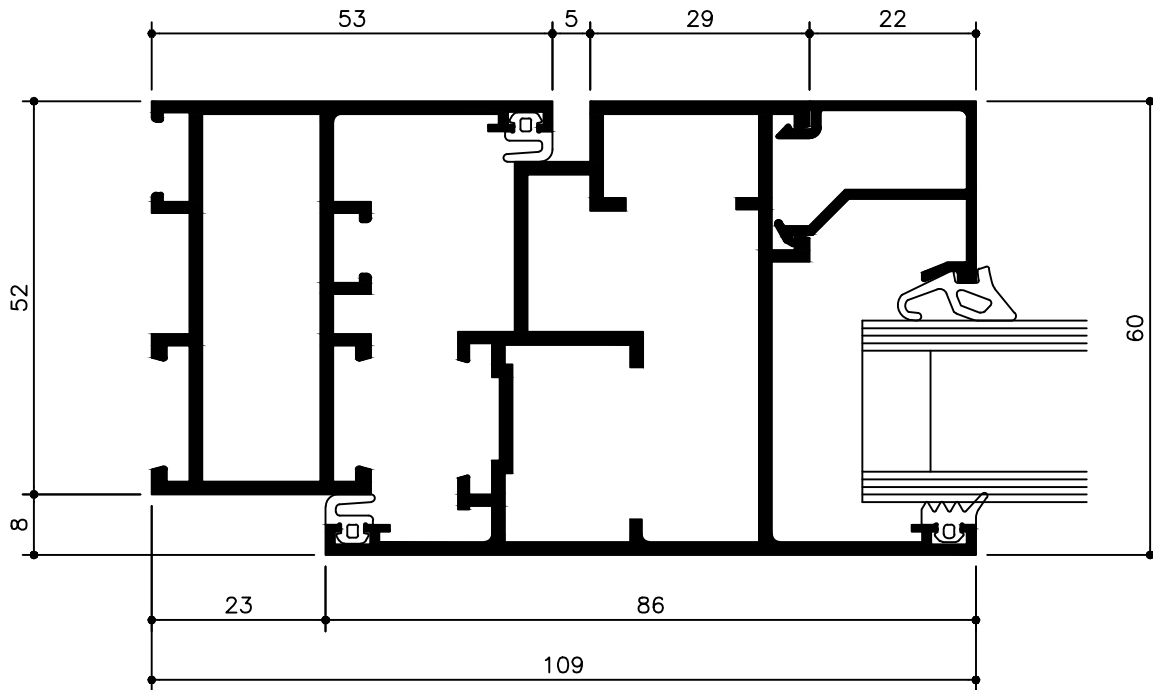
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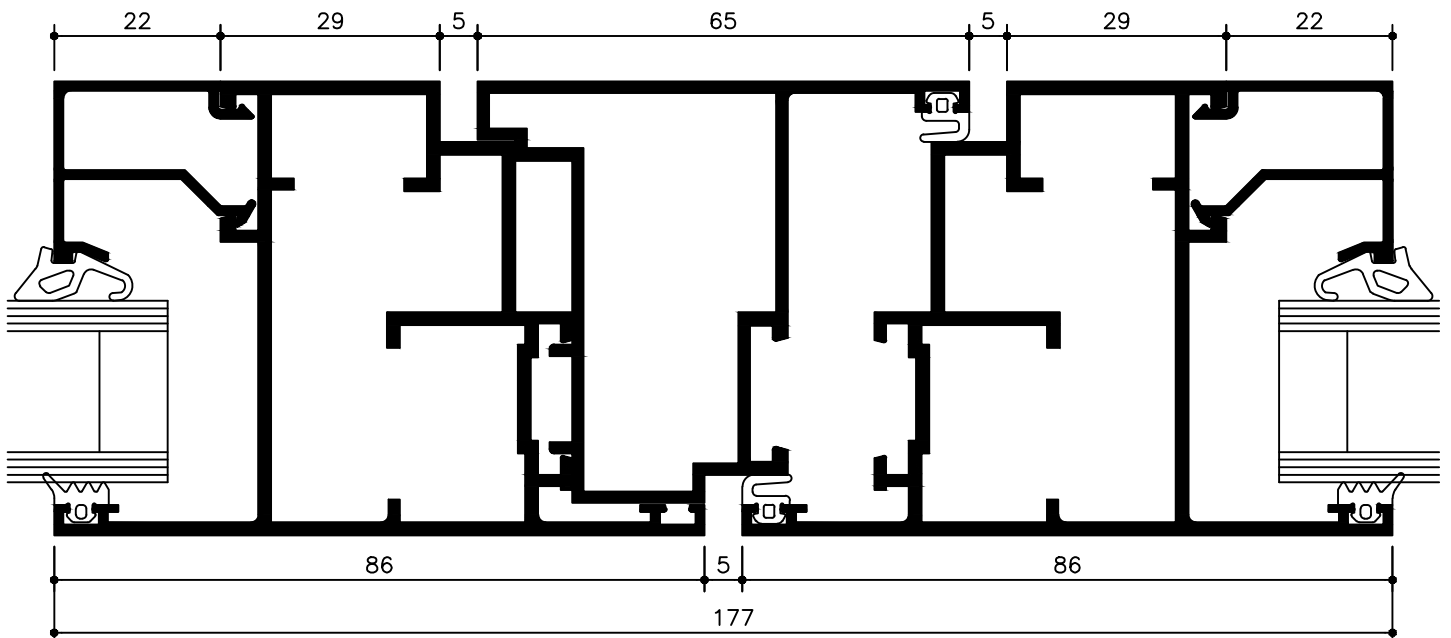
AQ160A



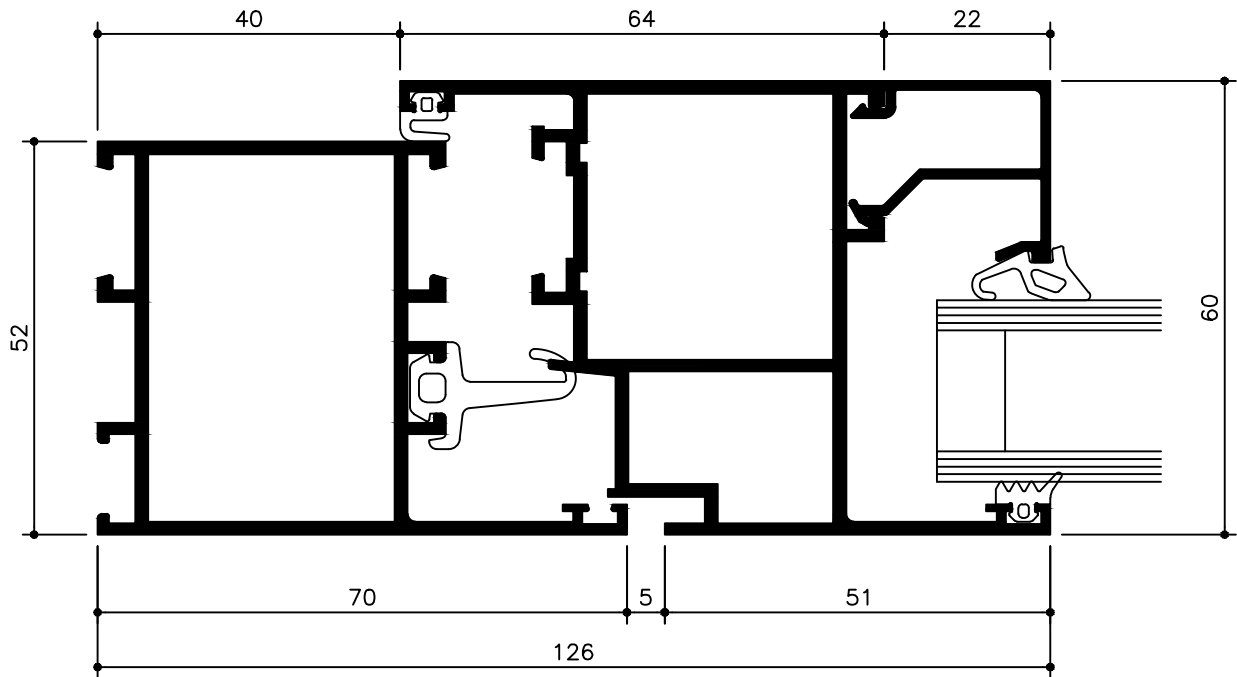
AQ160B



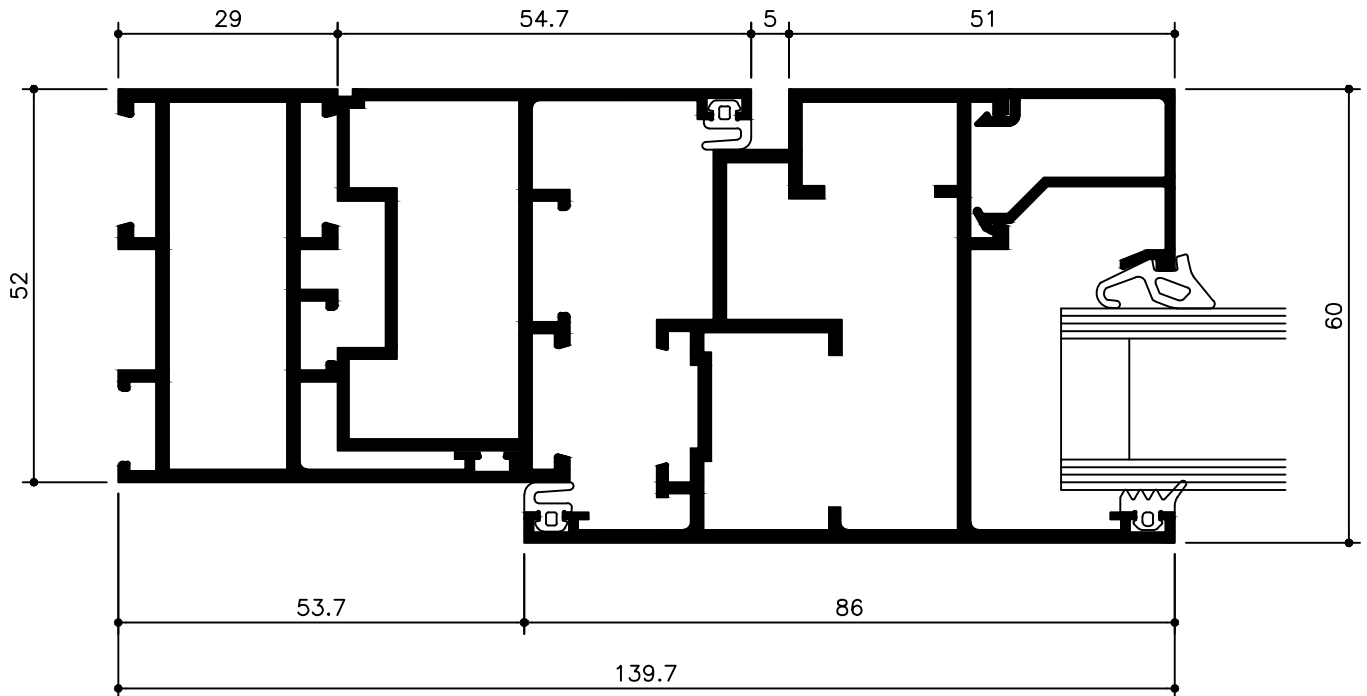
AQ161



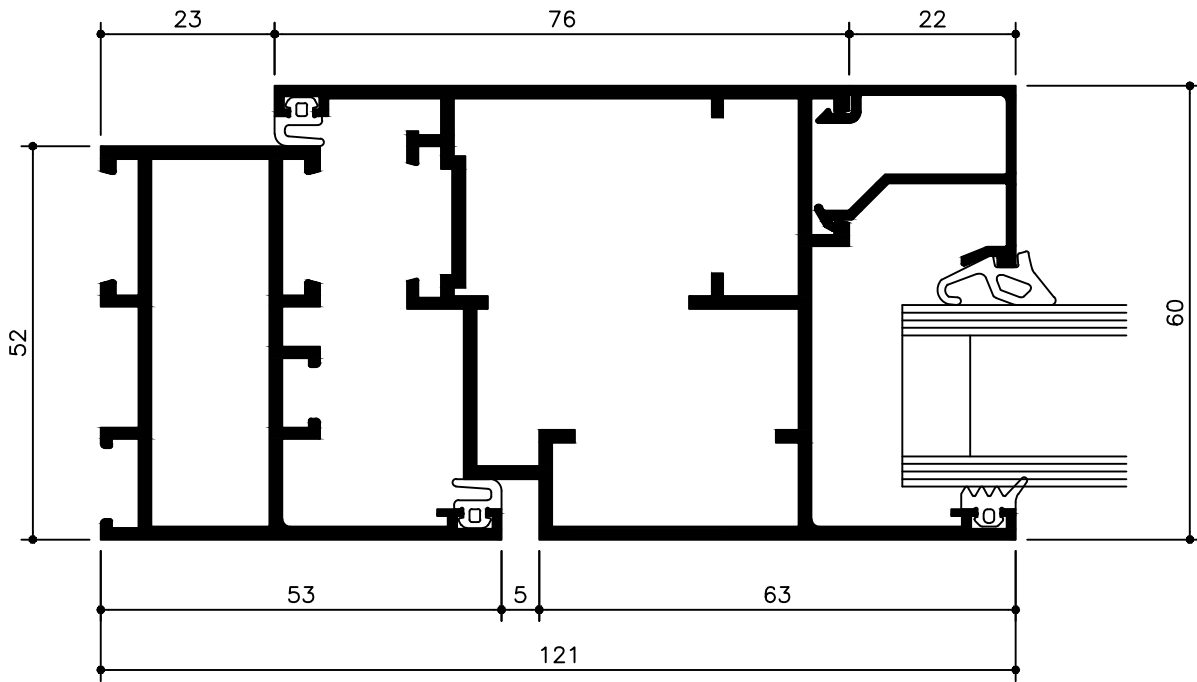
AQ162



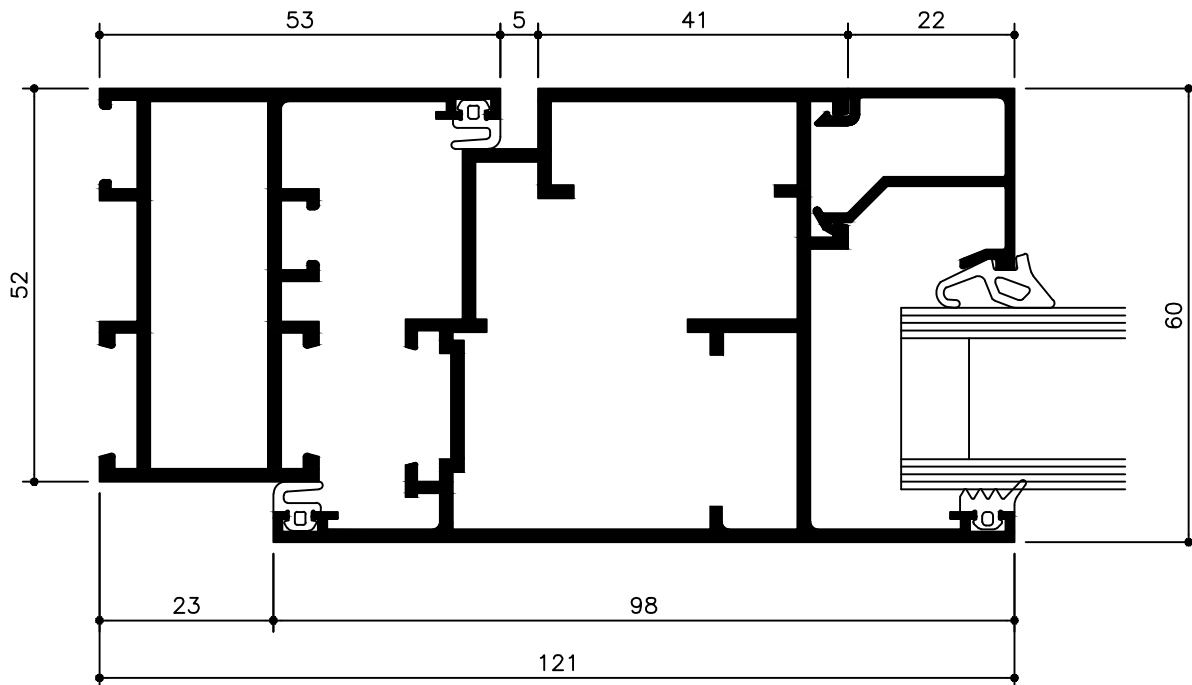
AQ159E



AQ163



AQ164



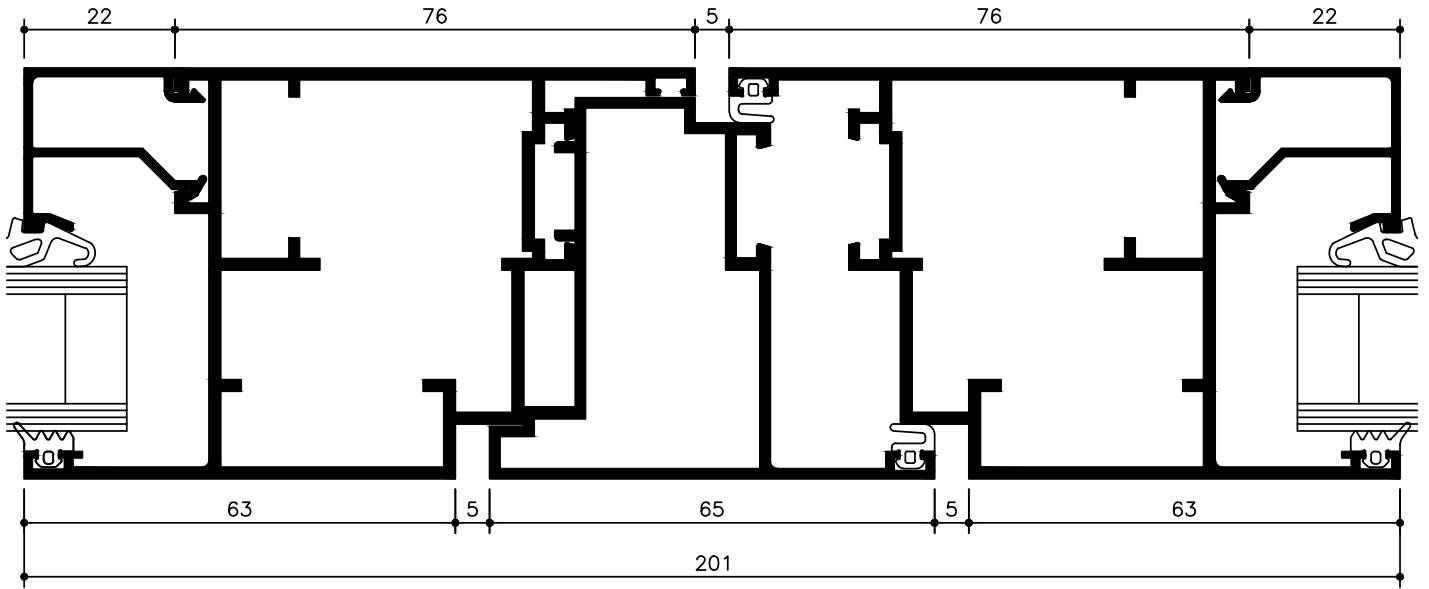
AQ165



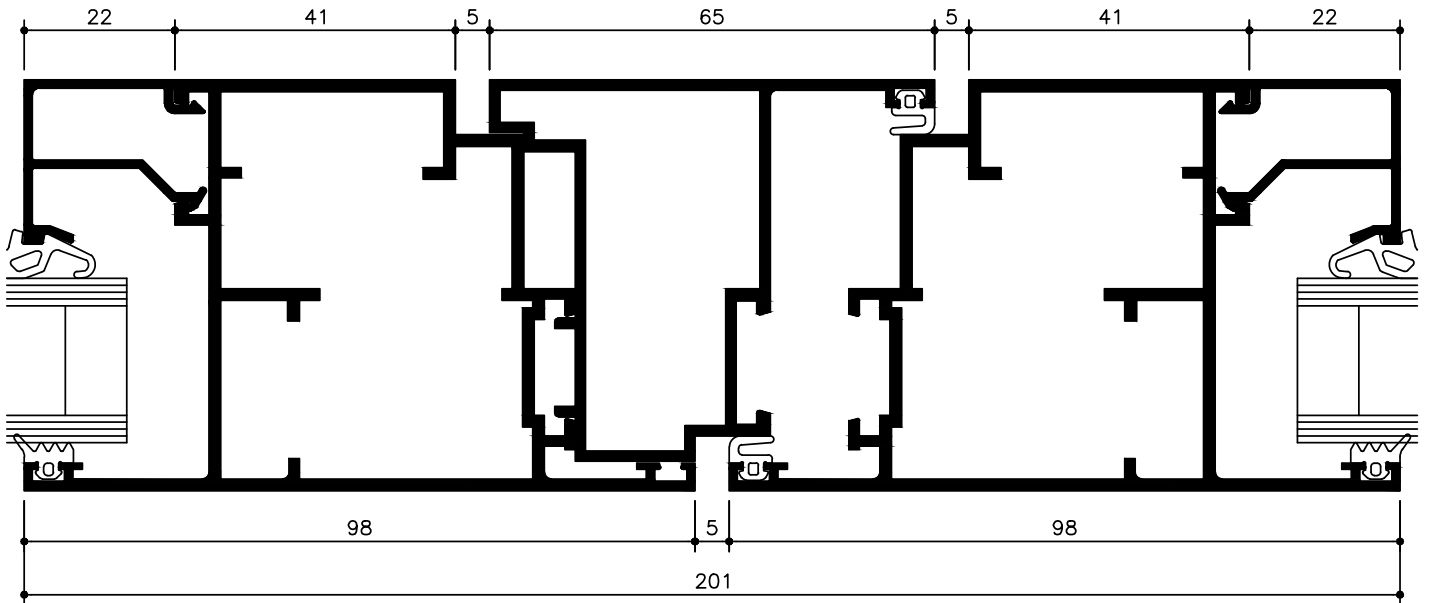
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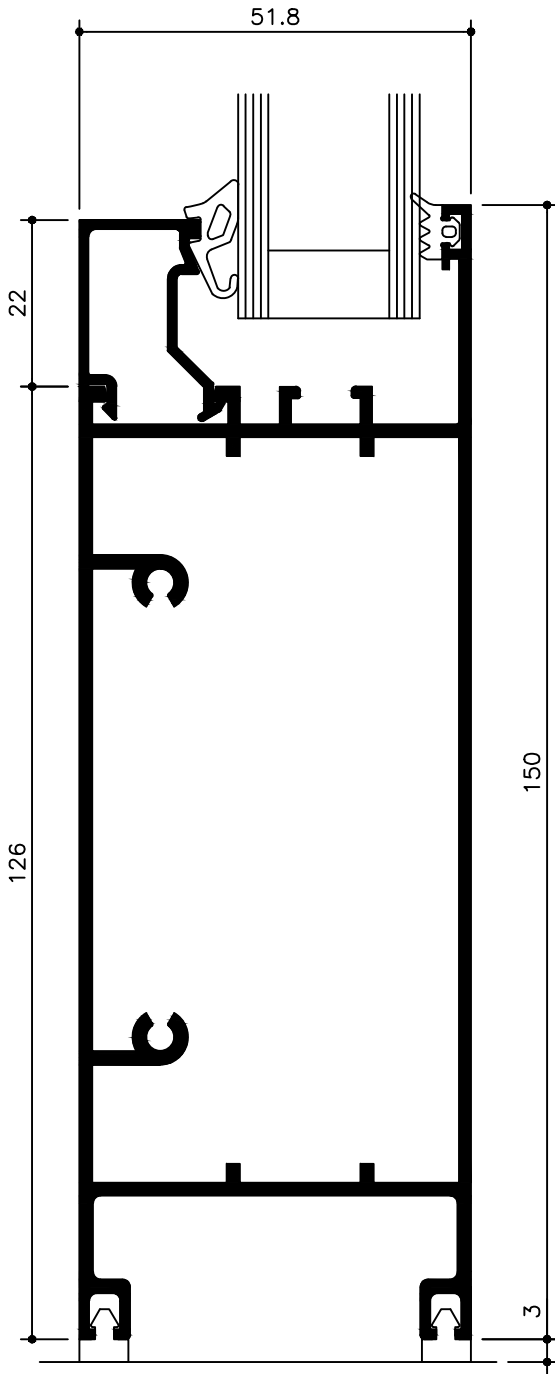


AQ166

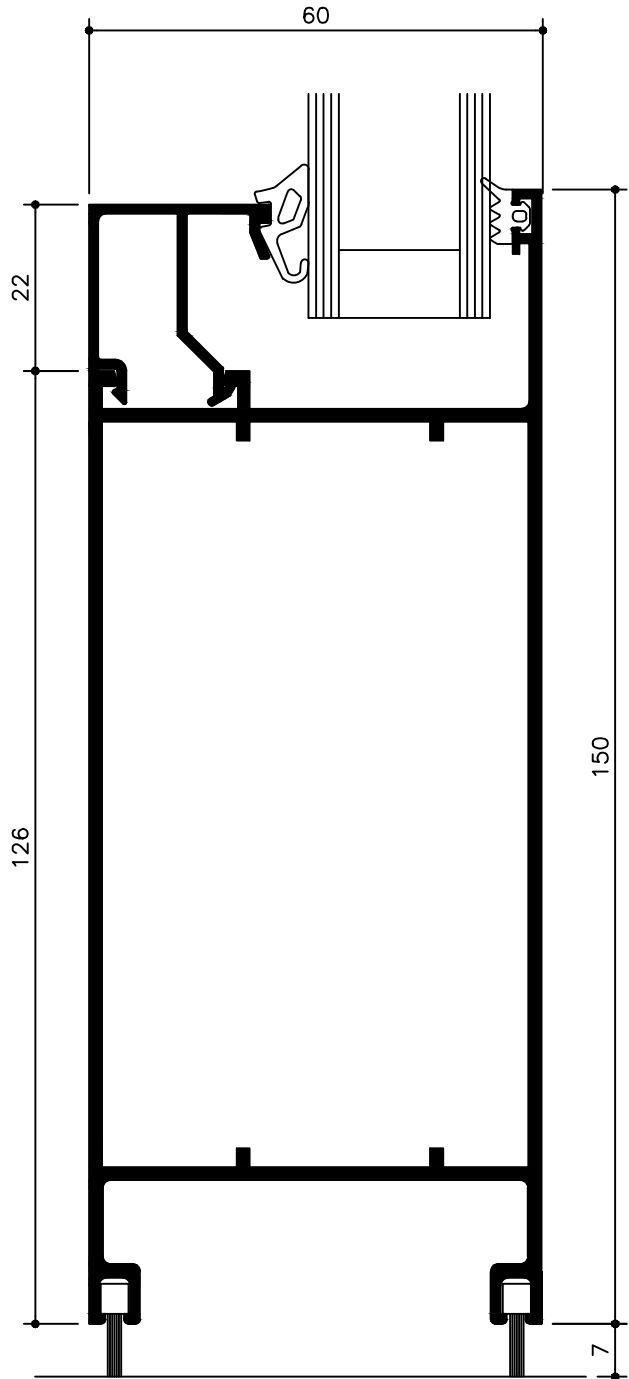


AQ167

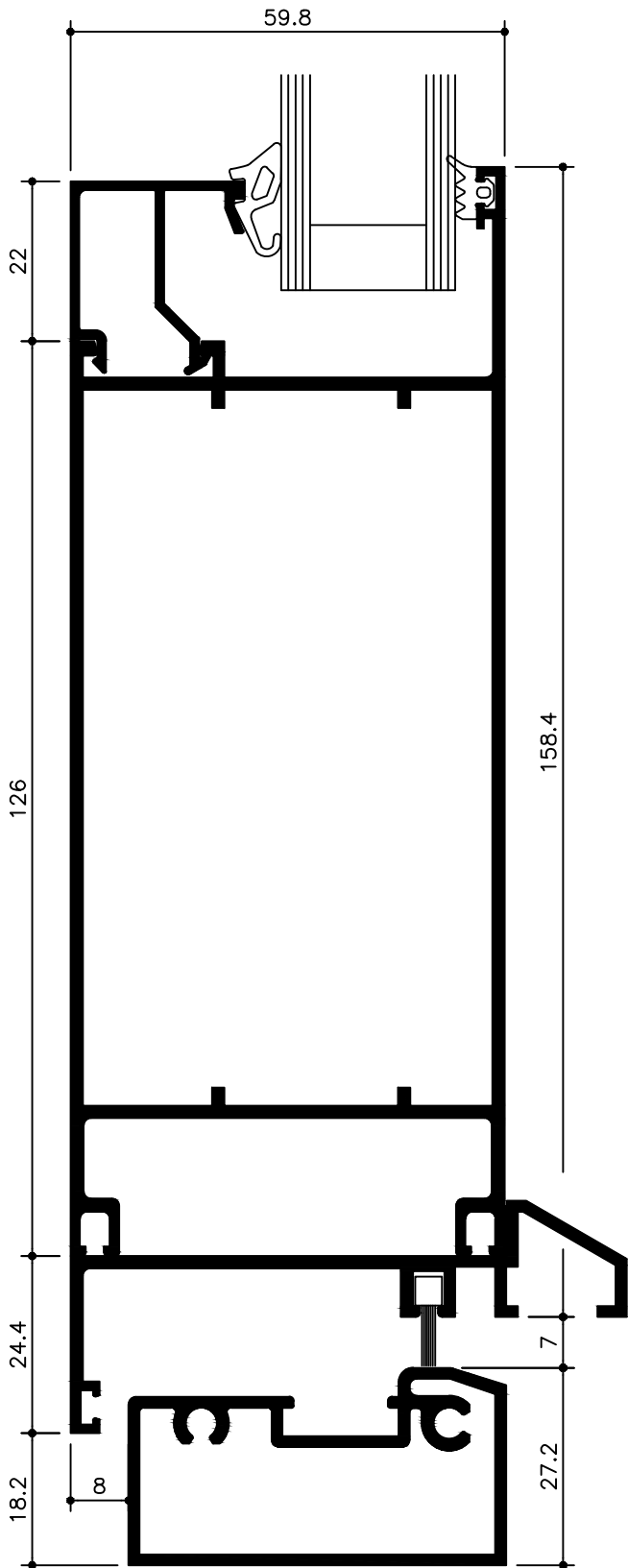
SECTOR I.45



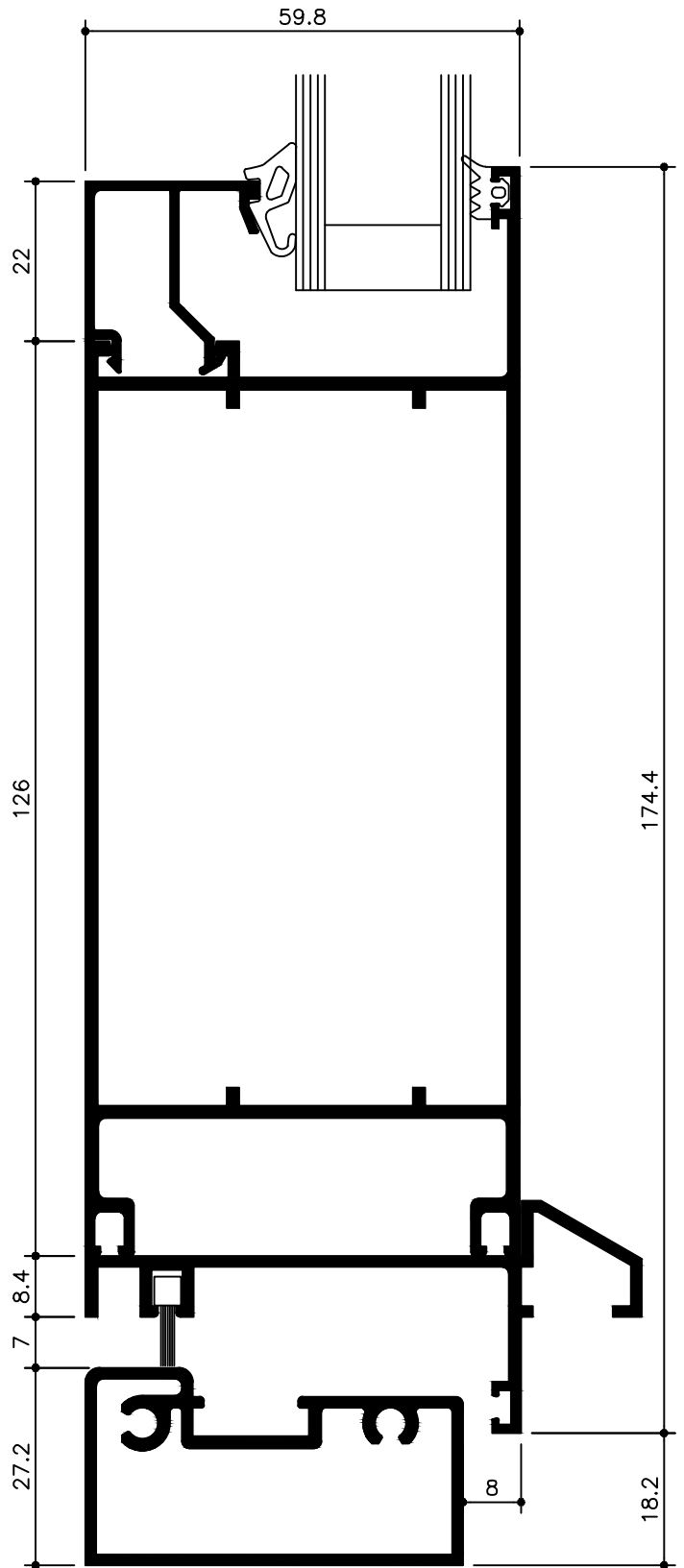
AQ168



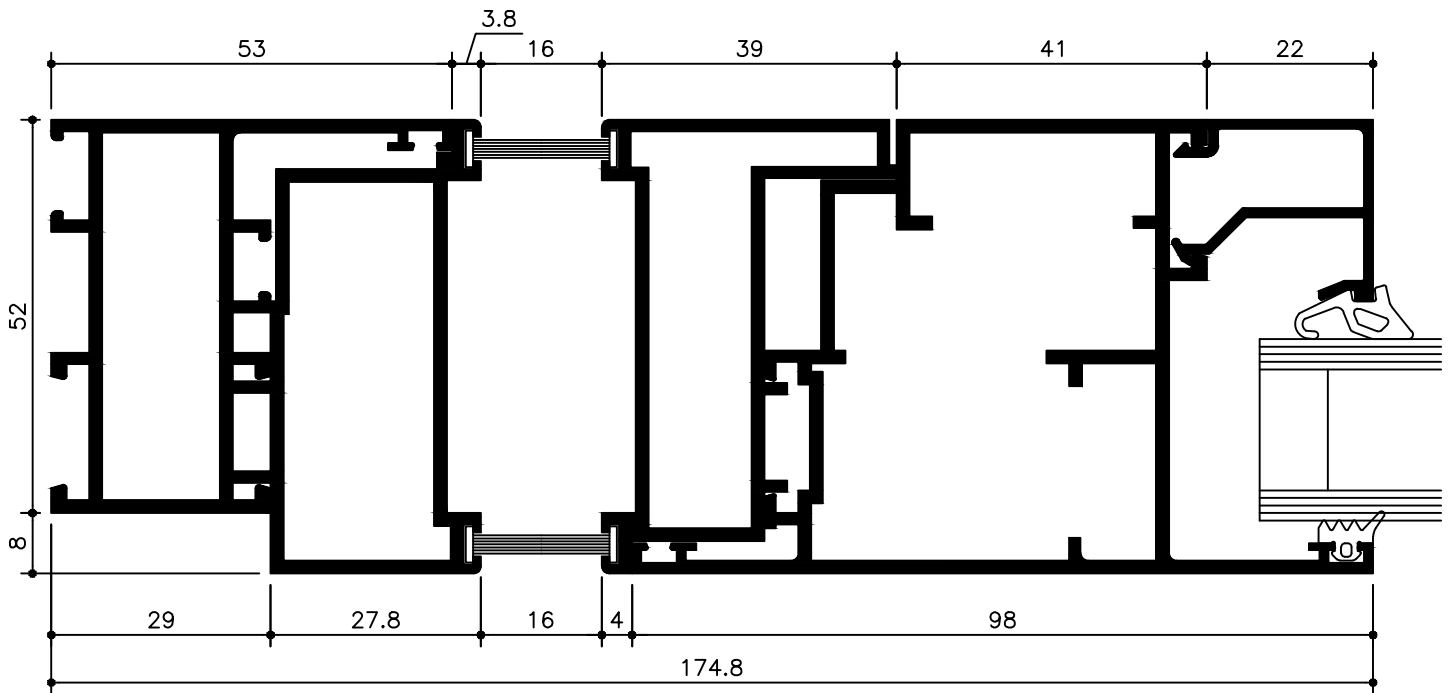
AQ169



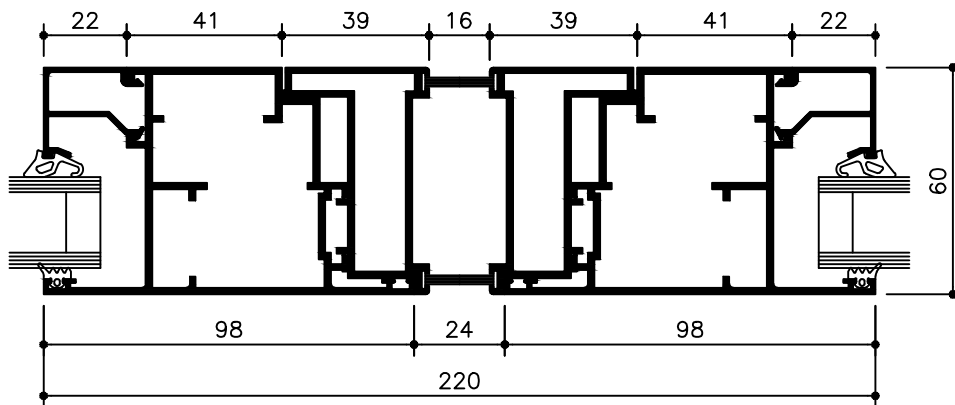
AQ170



AQ171

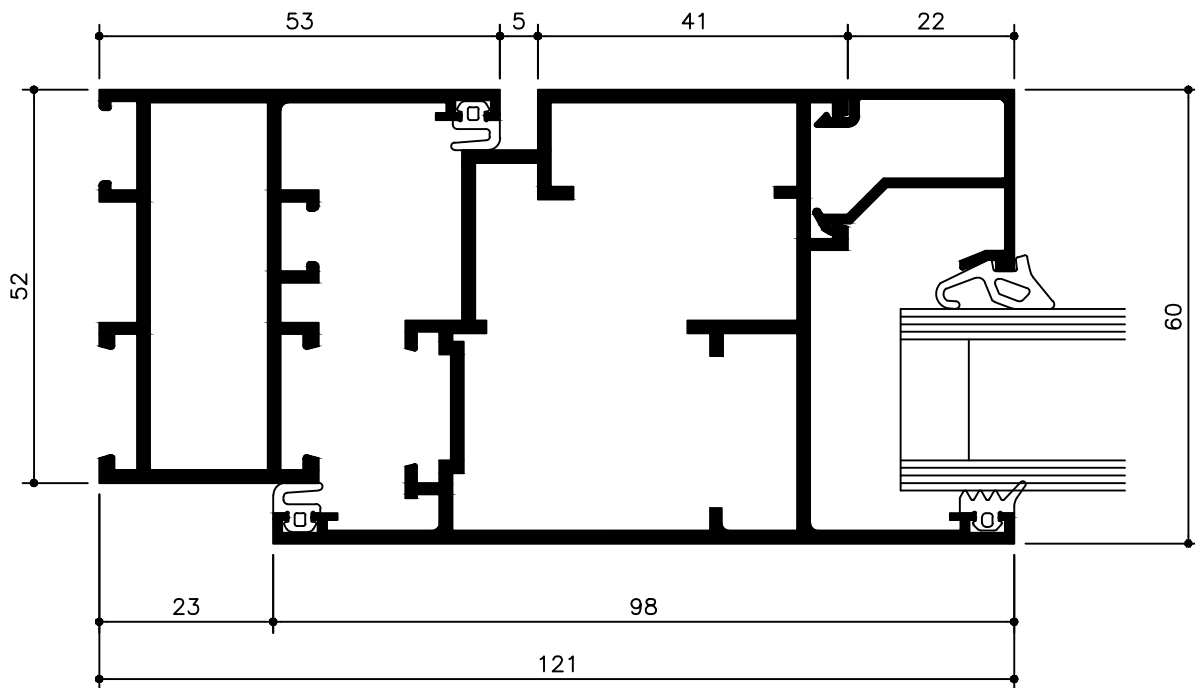


AQ172

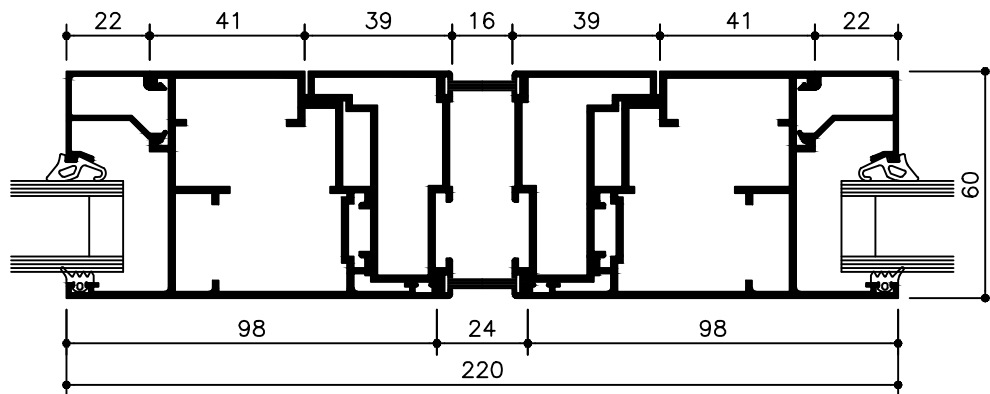


SCALE 1:2

AQ173



AQ165

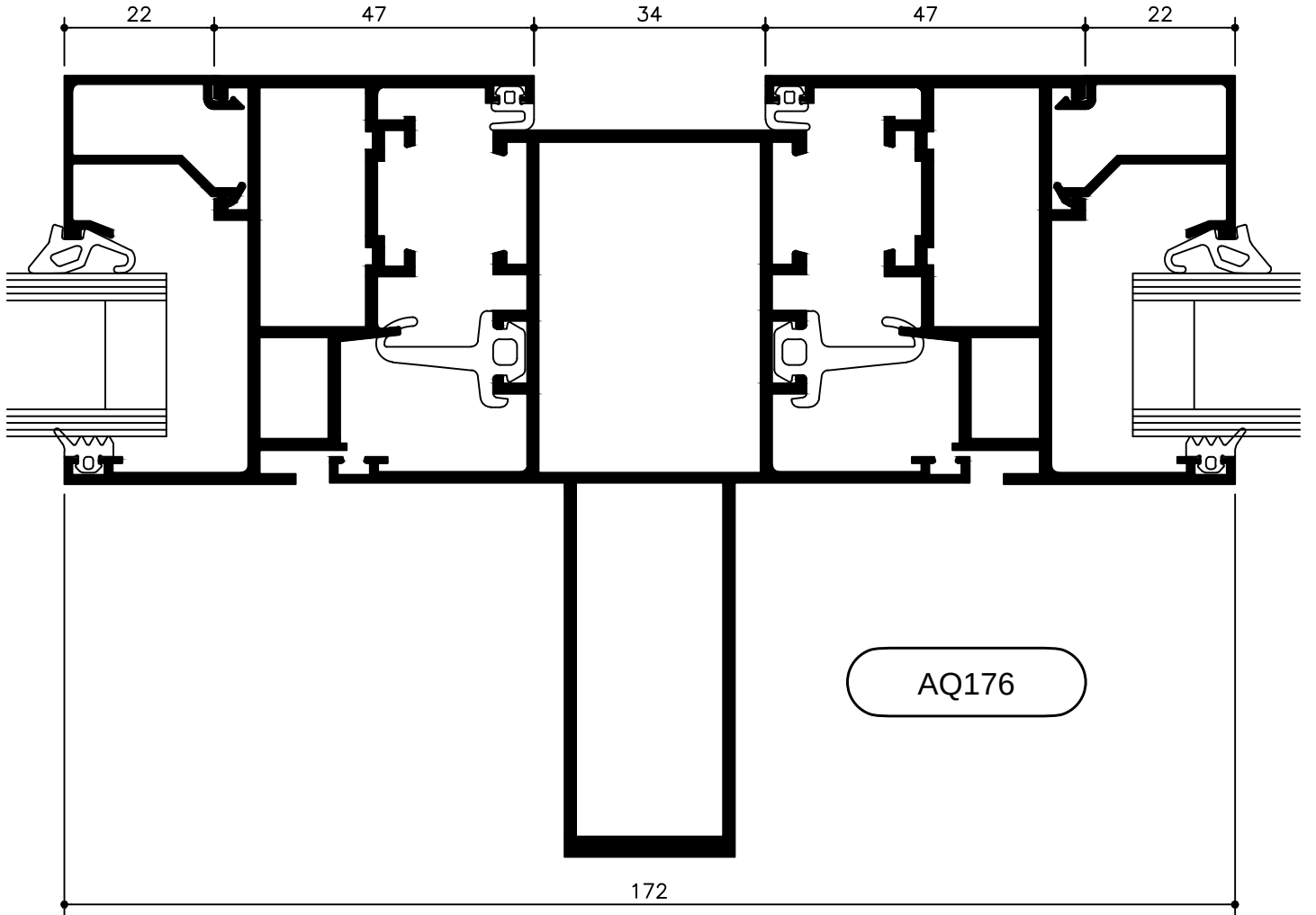
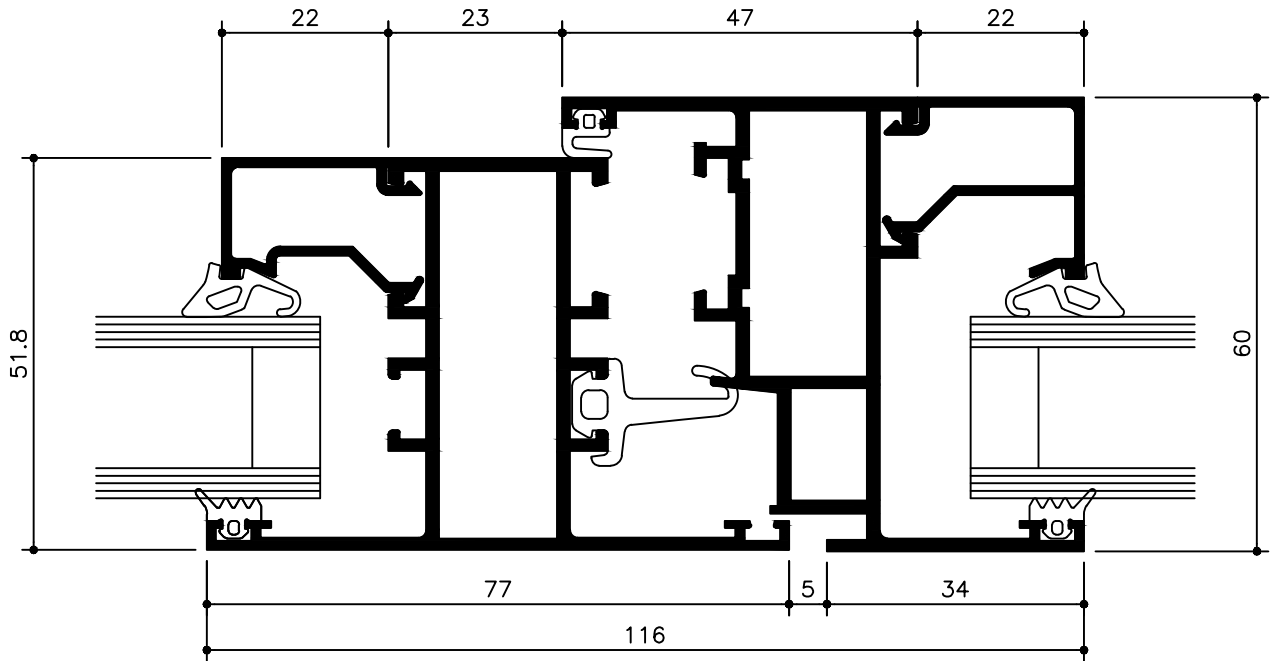


SCALE 1:2

AQ174

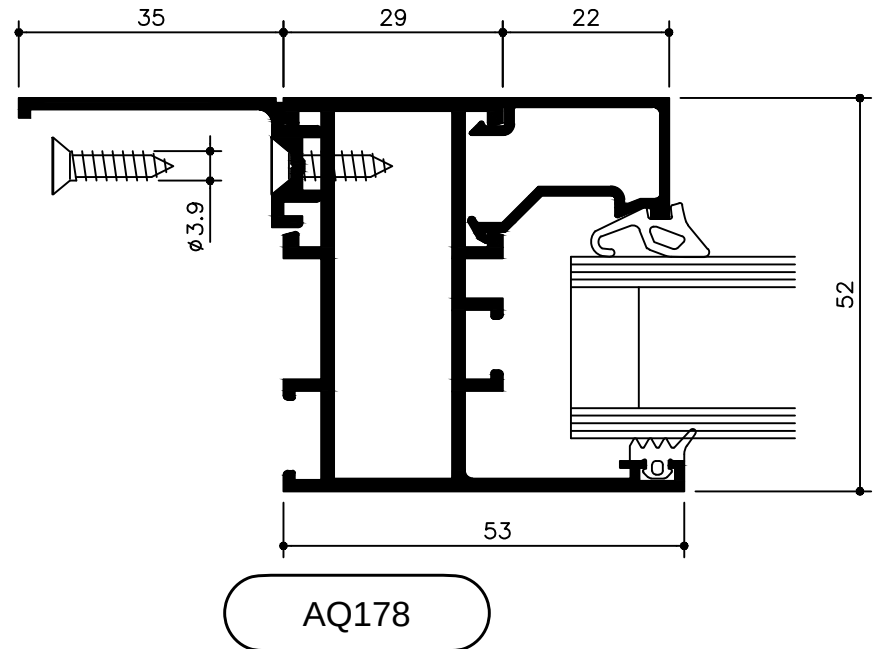
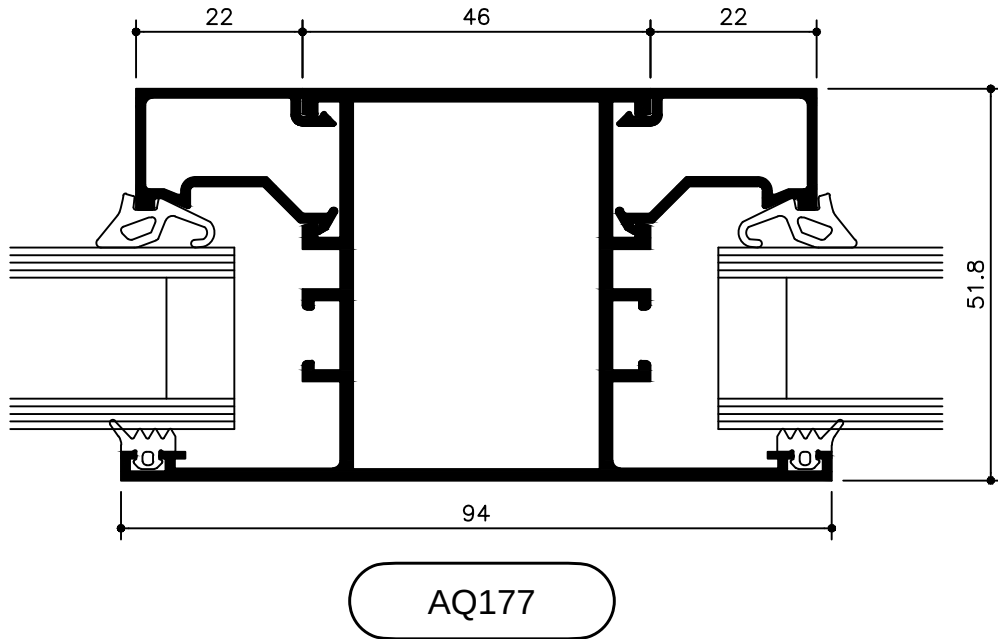


AQ175



AQ176

SECTOR I.50



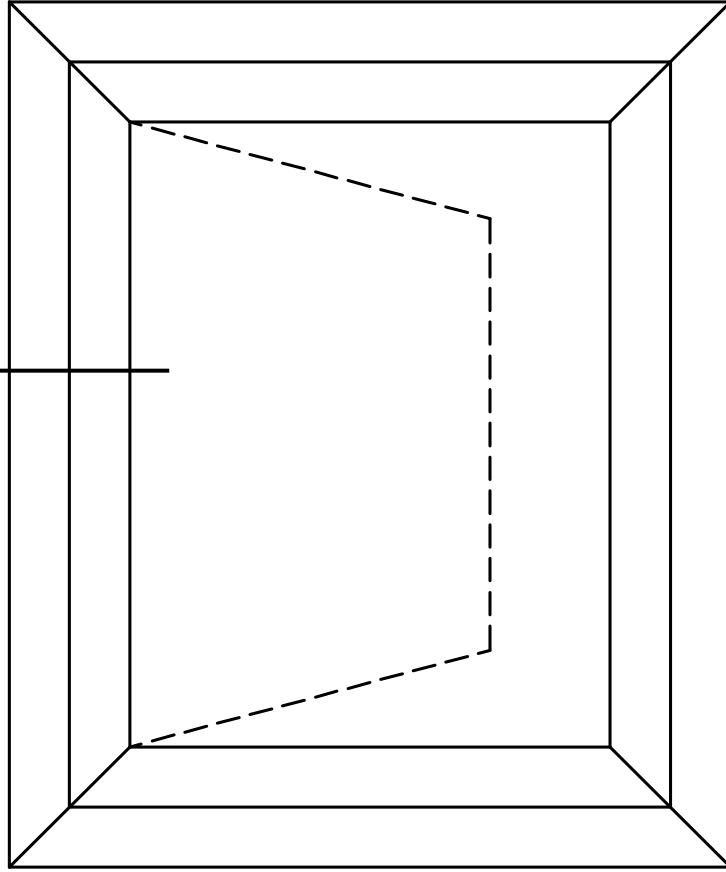
Sector L

Typologies composition



BEAR.16

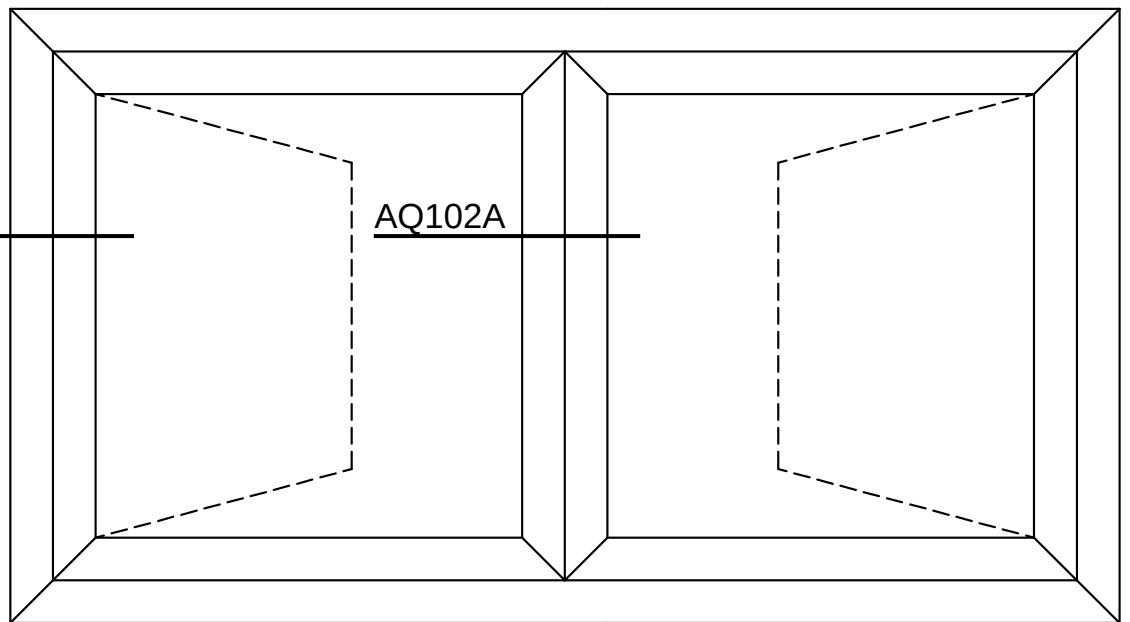
AQ101A/B/C/D/E



BEAR.16

AQ101A/B/D

AQ102A





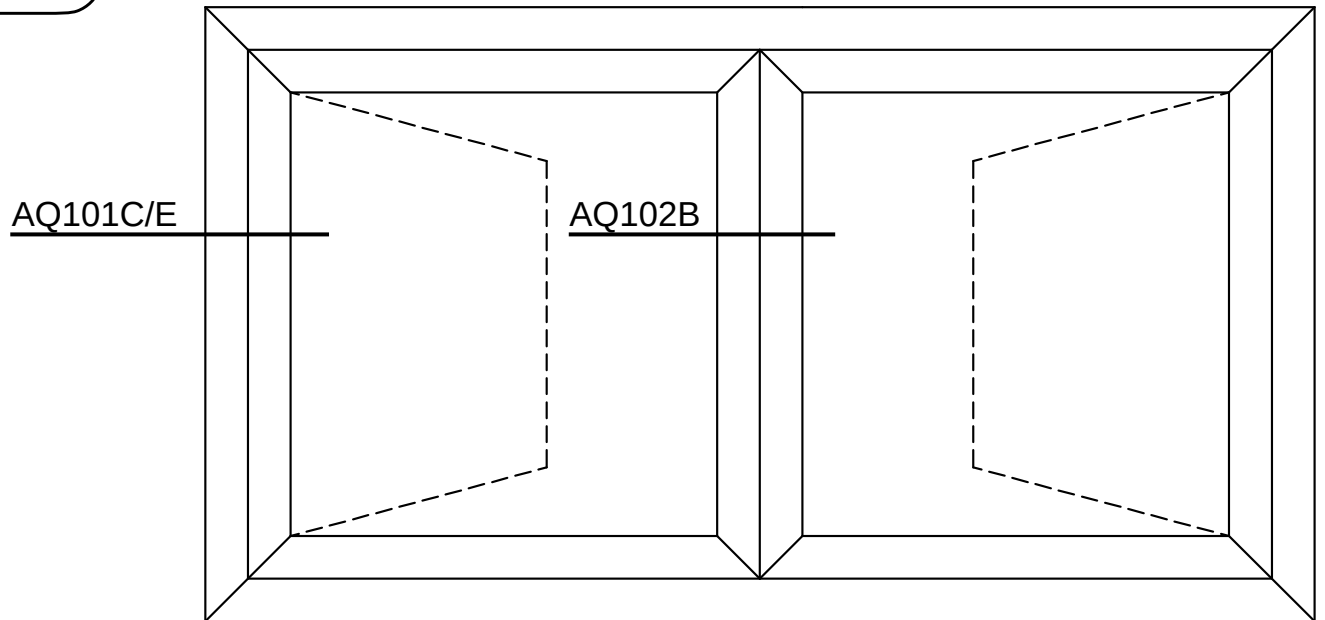
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BEAR.16

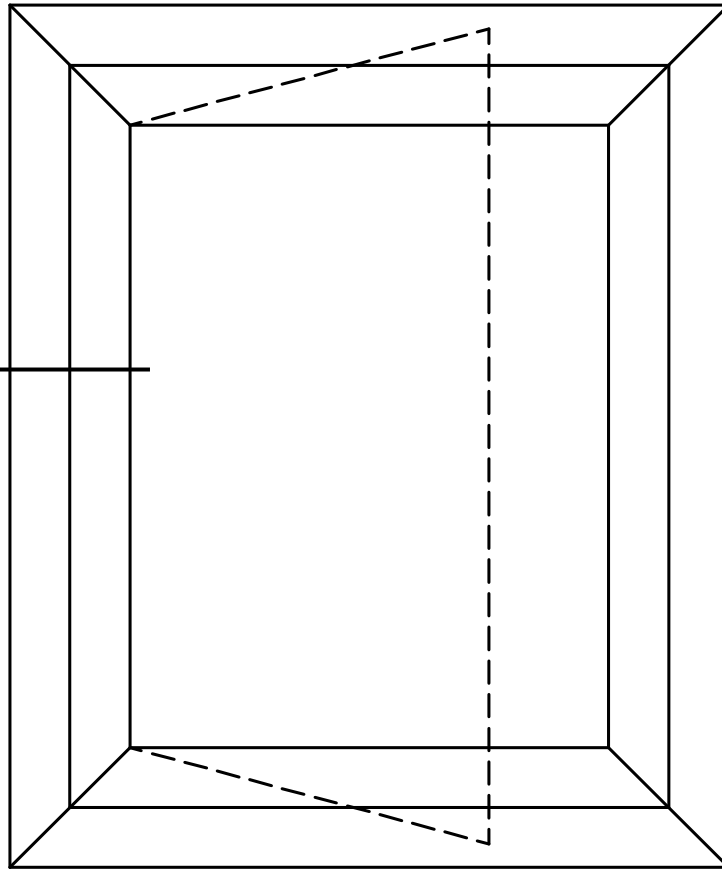


SECTOR L.2



BEAR.16

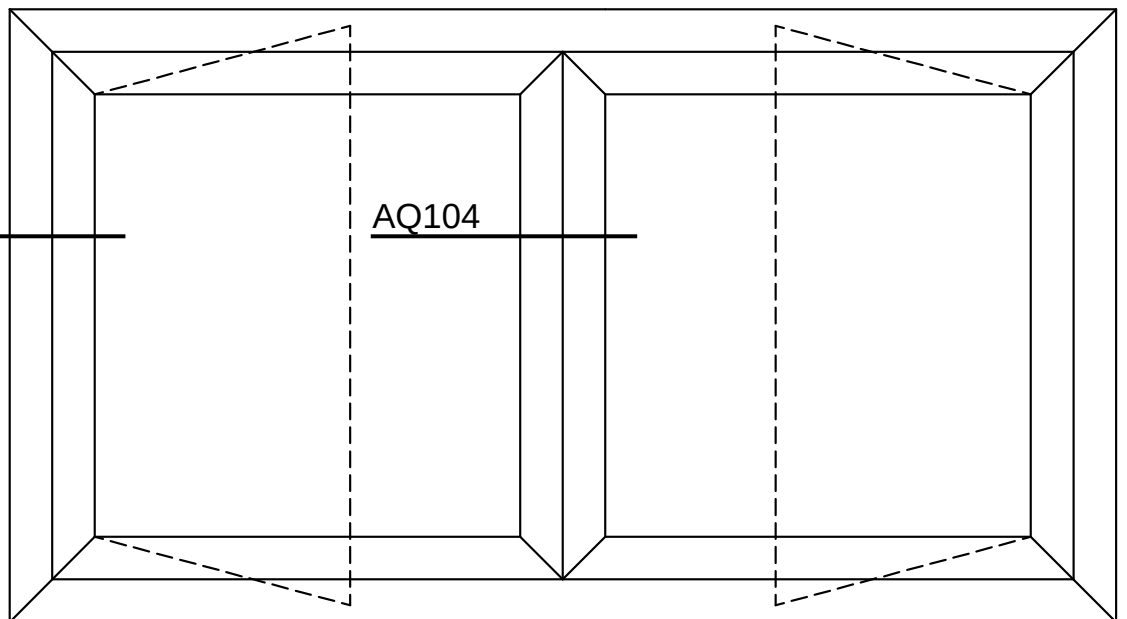
AQ103



BEAR.16

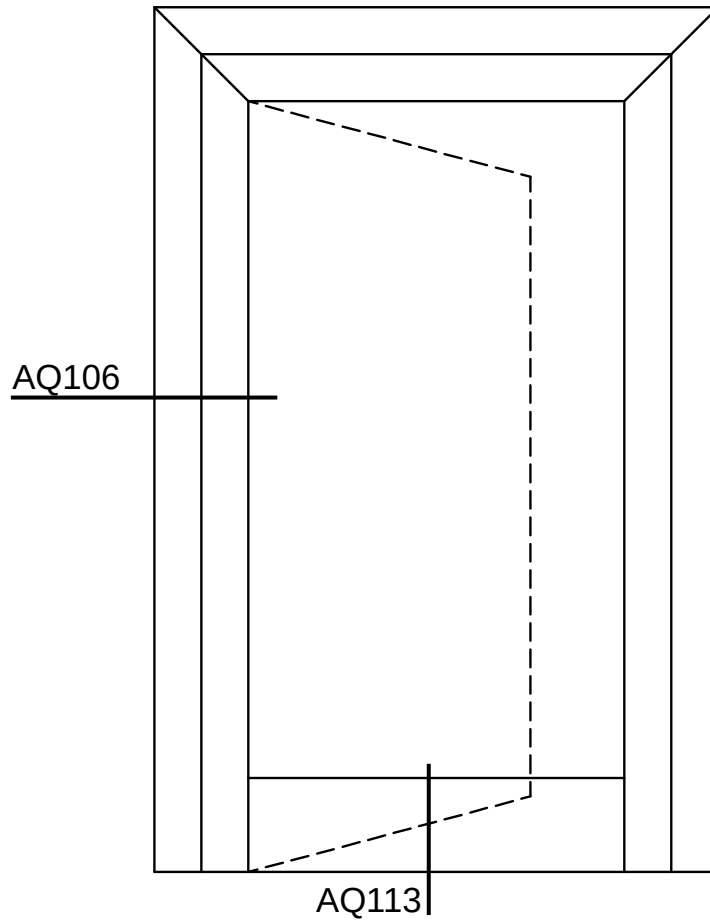
AQ103

AQ104

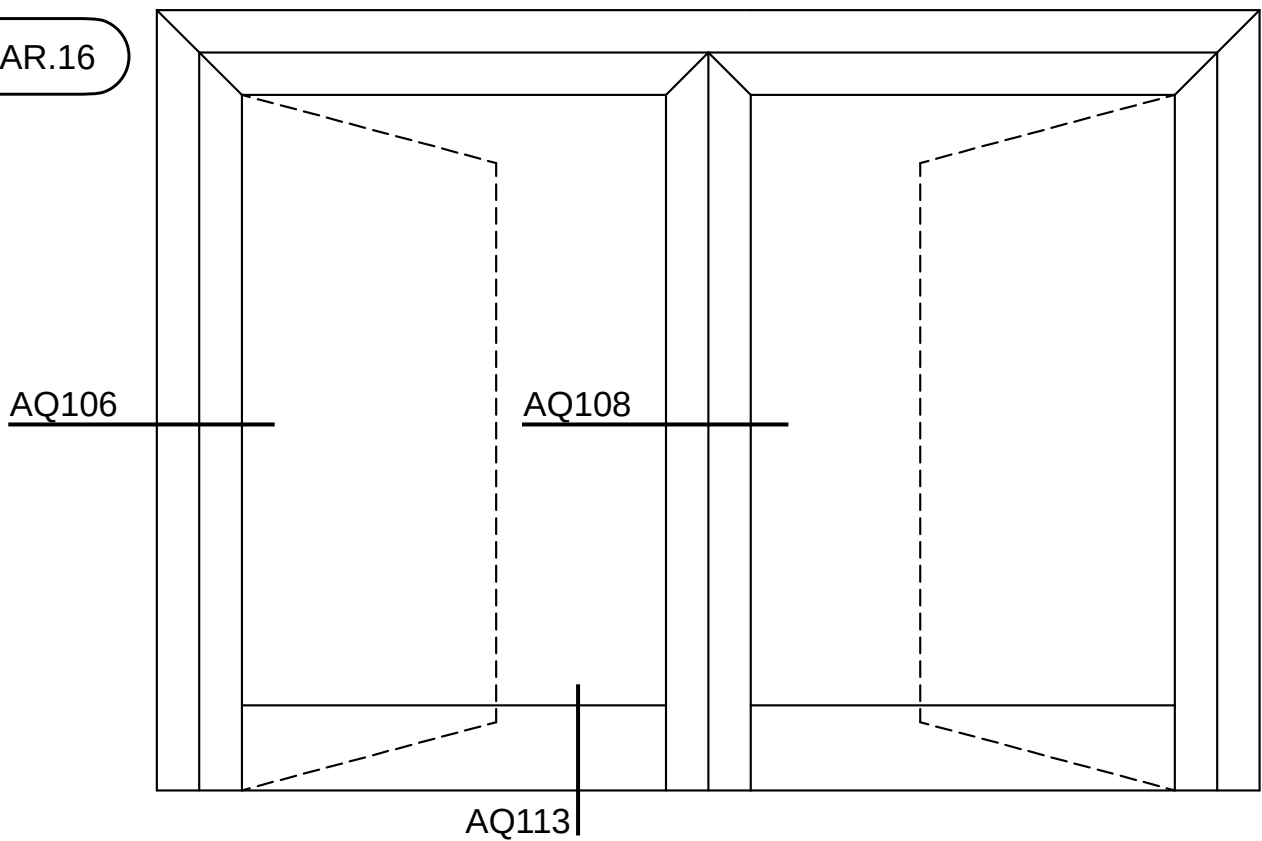




BEAR.16



BEAR.16



SECTOR L.4



BEAR.16

AQ107

AQ112

BEAR.16

AQ107

AQ109

AQ112

SECTOR L.5



BEAR.16

AQ114

AQ115

AQ110

BEAR.16

AQ107

AQ116

AQ110

SECTOR L.6

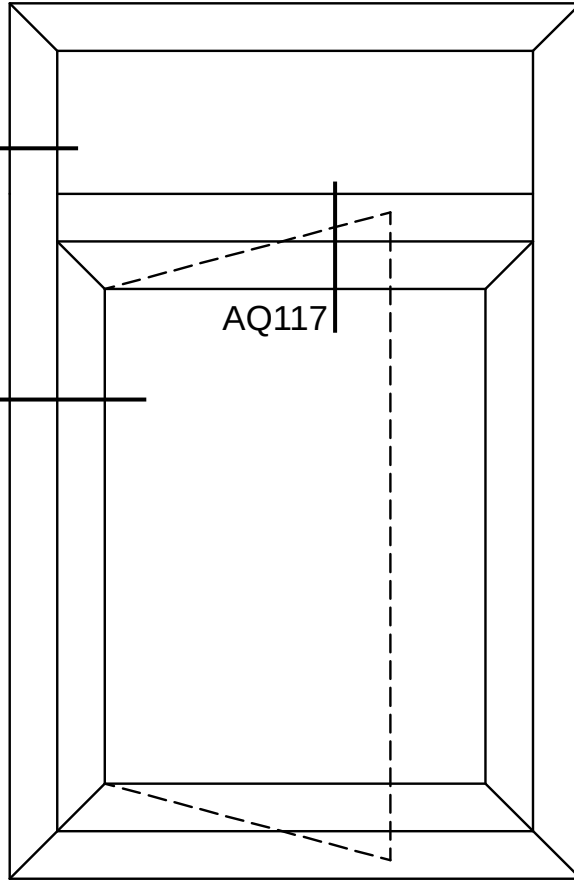


BEAR.16

AQ120

AQ105

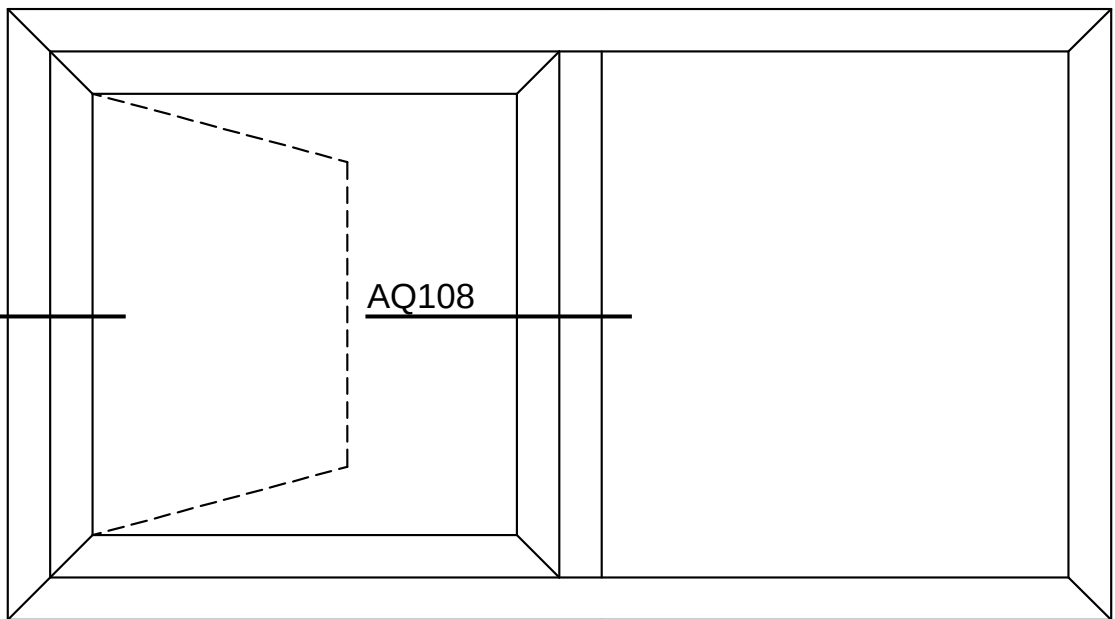
AQ117



BEAR.16

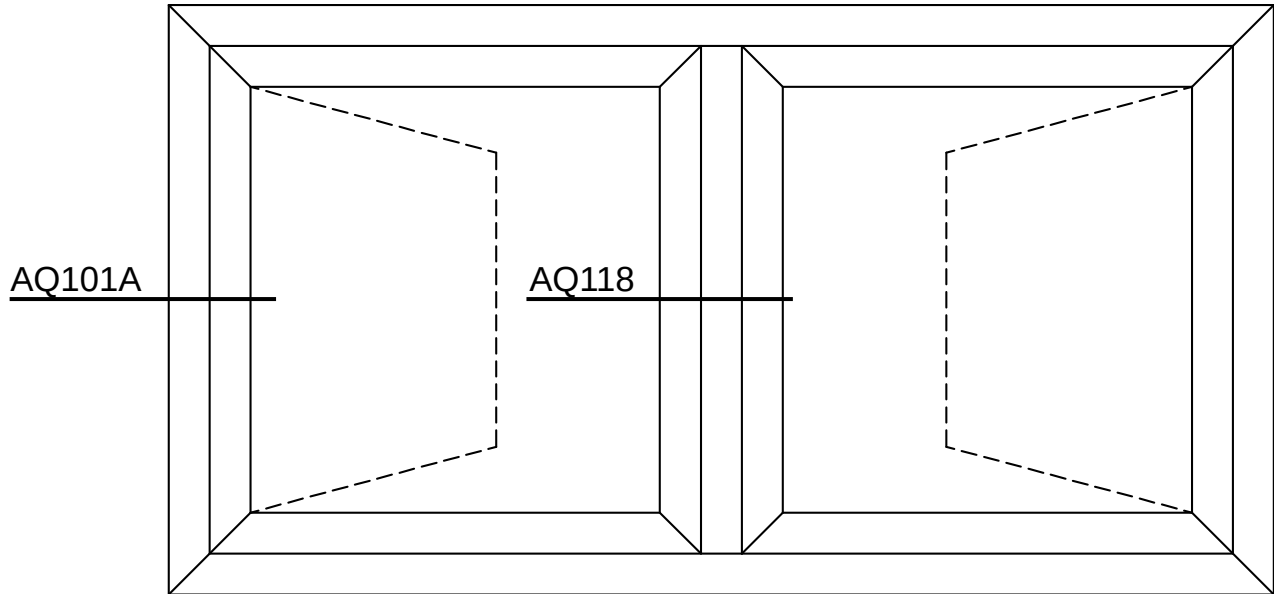
AQ106

AQ108

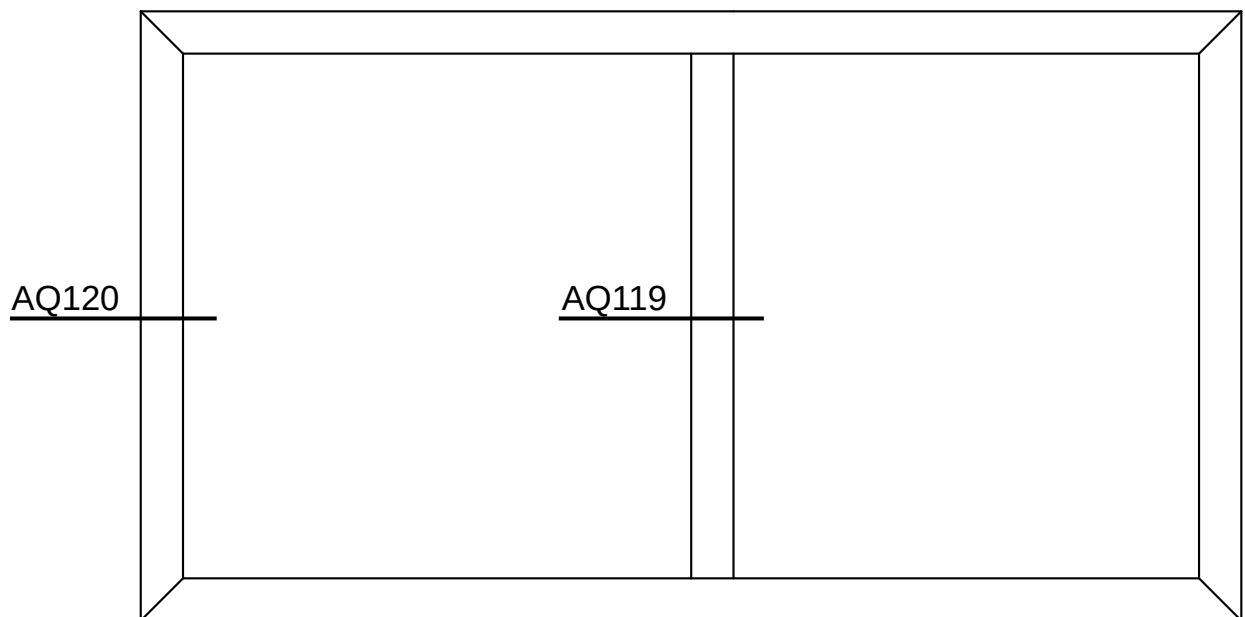




BEAR.16



BEAR.16





BEAR.16

AQ106

AQ120

AQ112

AQ111

BEAR.16

AQ109

AQ120

AQ113

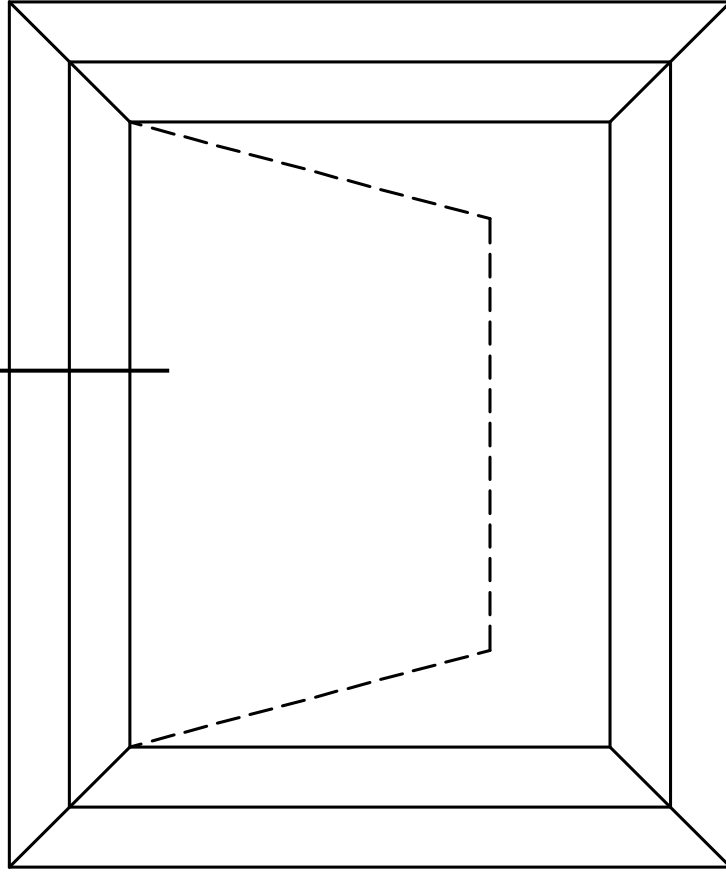
AQ111

SECTOR L.9



BEAR.24

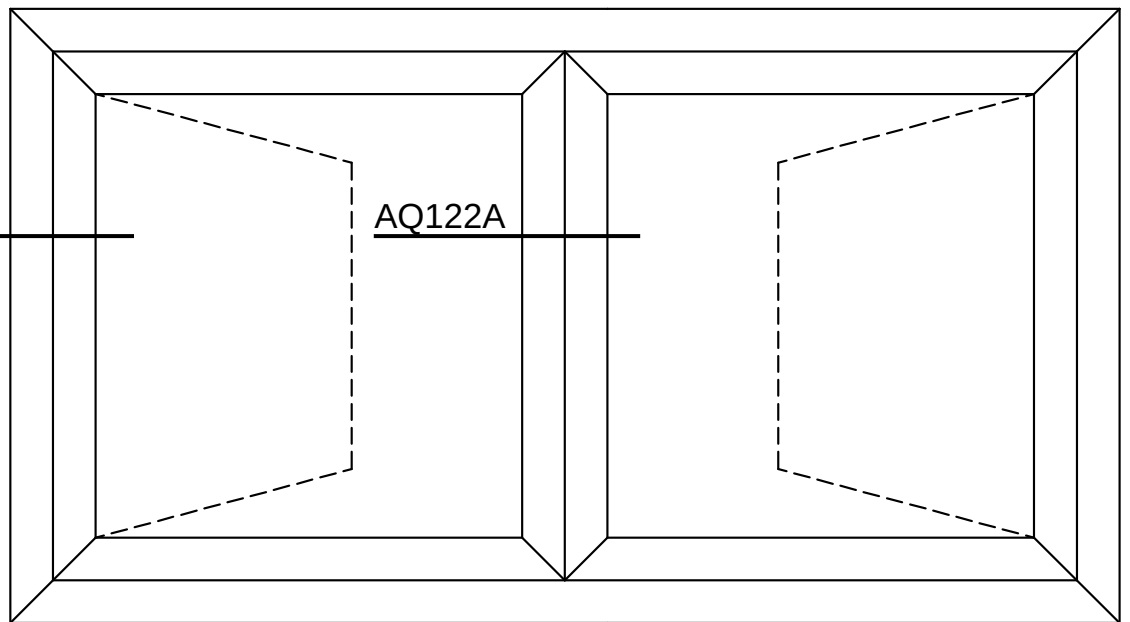
AQ121A/B/C/D/E



BEAR.24

AQ121A/B/D

AQ122A





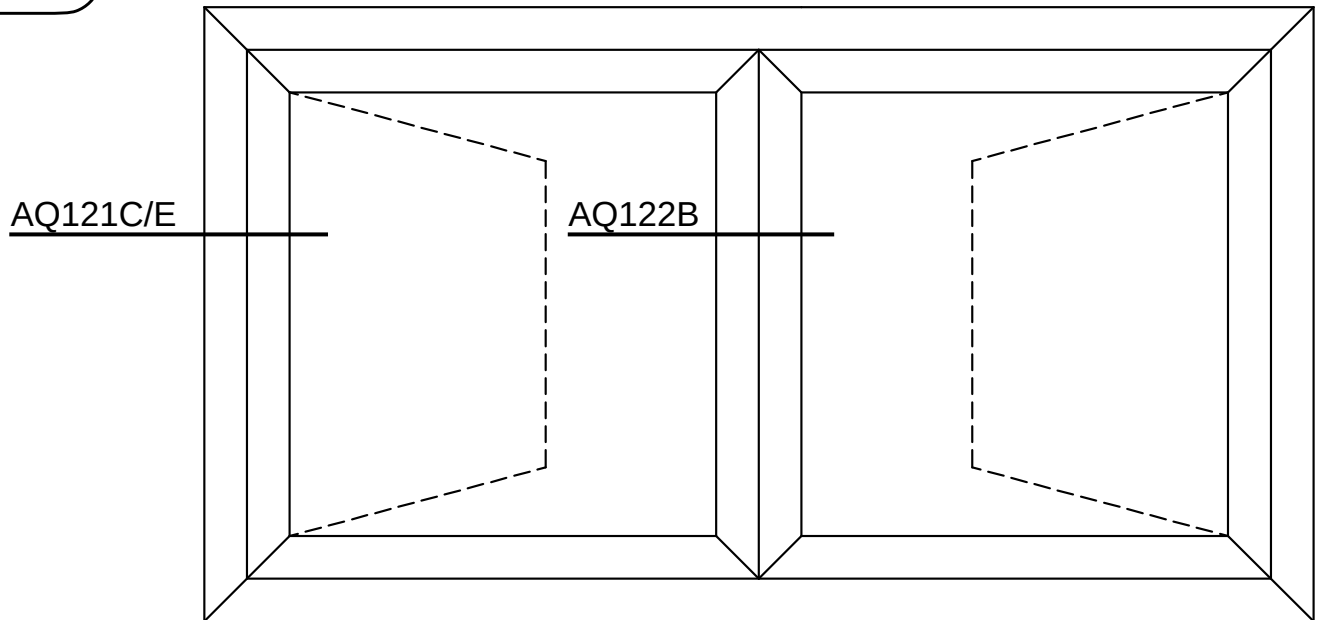
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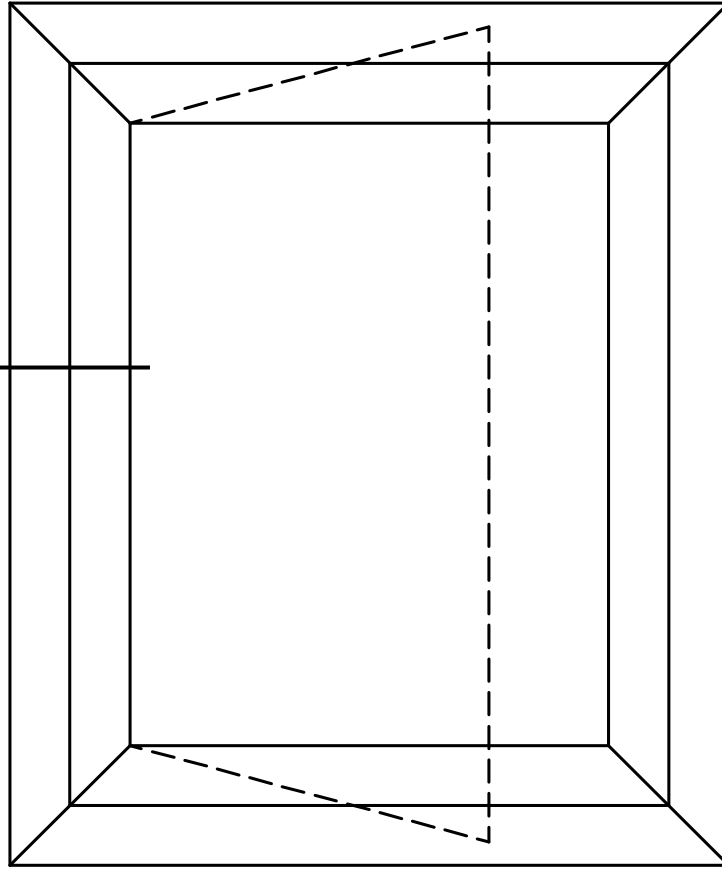
BEAR.24





BEAR.24

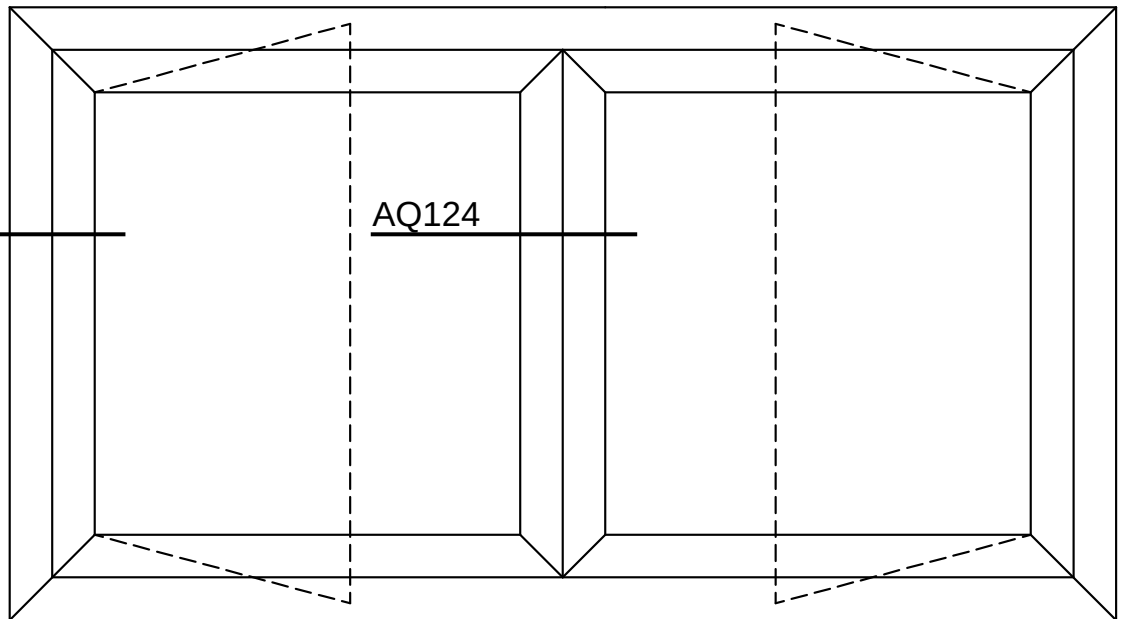
AQ123



BEAR.24

AQ123

AQ124





BEAR.24

AQ126

AQ133

BEAR.24

AQ126

AQ128

AQ133

SECTOR L.13



BEAR.24

AQ134

AQ135

AQ130

BEAR.24

AQ127

AQ136

AQ130

SECTOR L.14

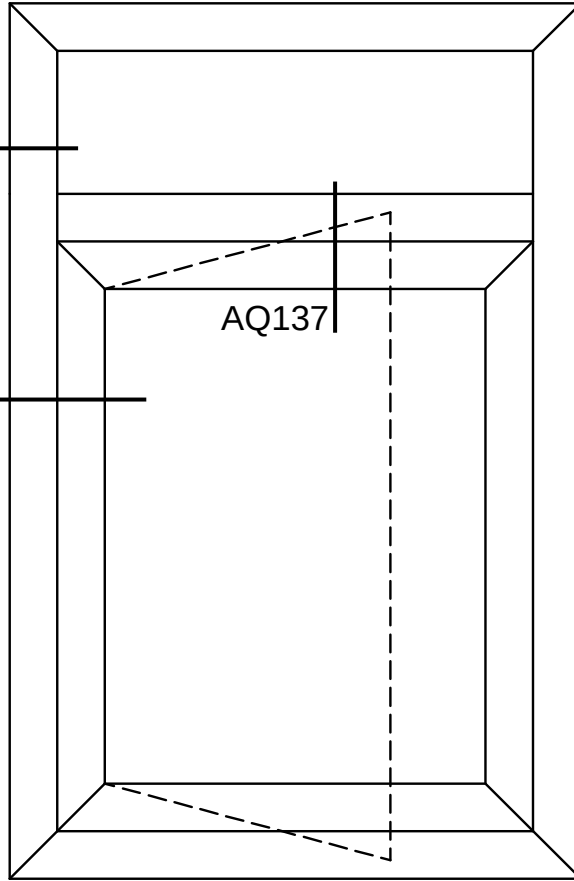


BEAR.24

AQ140

AQ125

AQ137

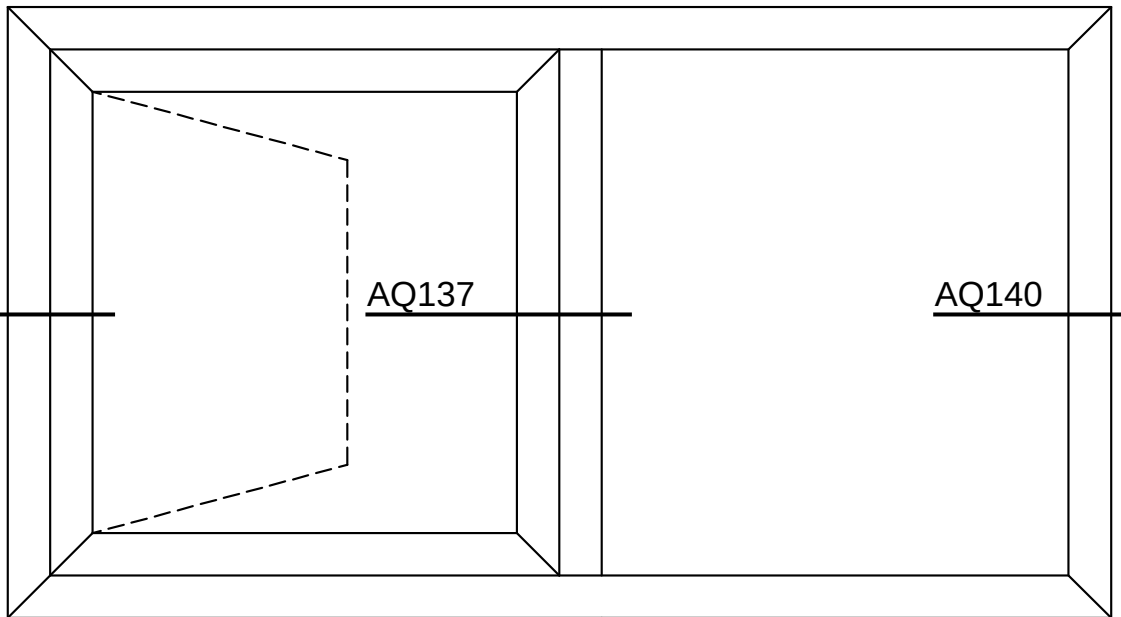


BEAR.24

AQ121A

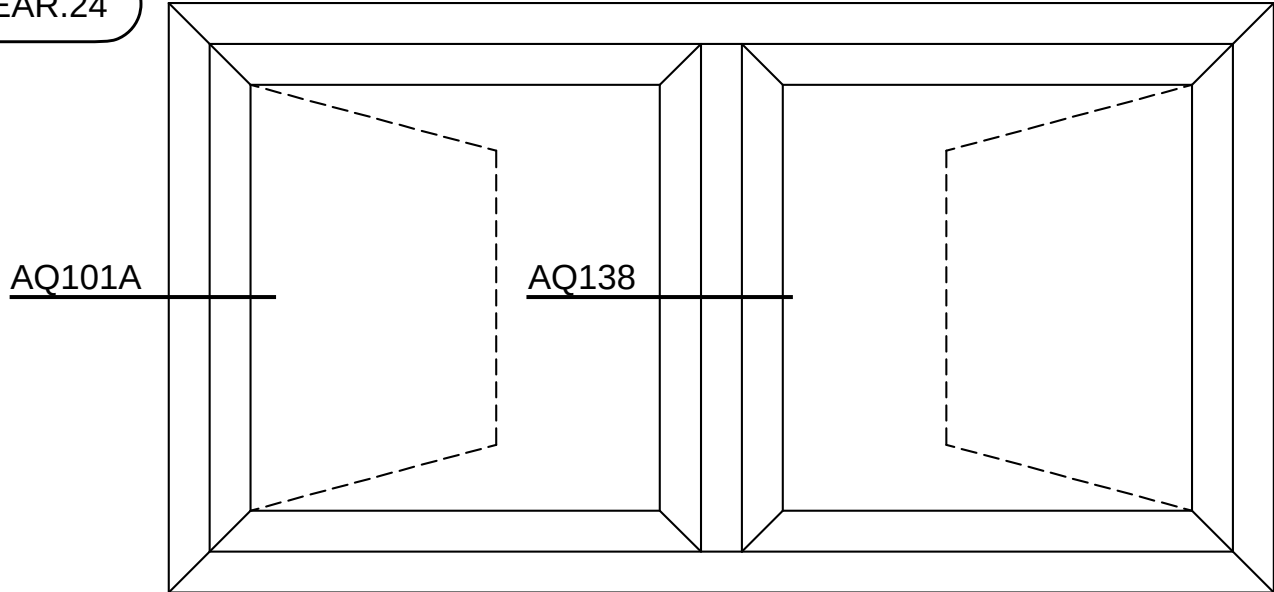
AQ137

AQ140

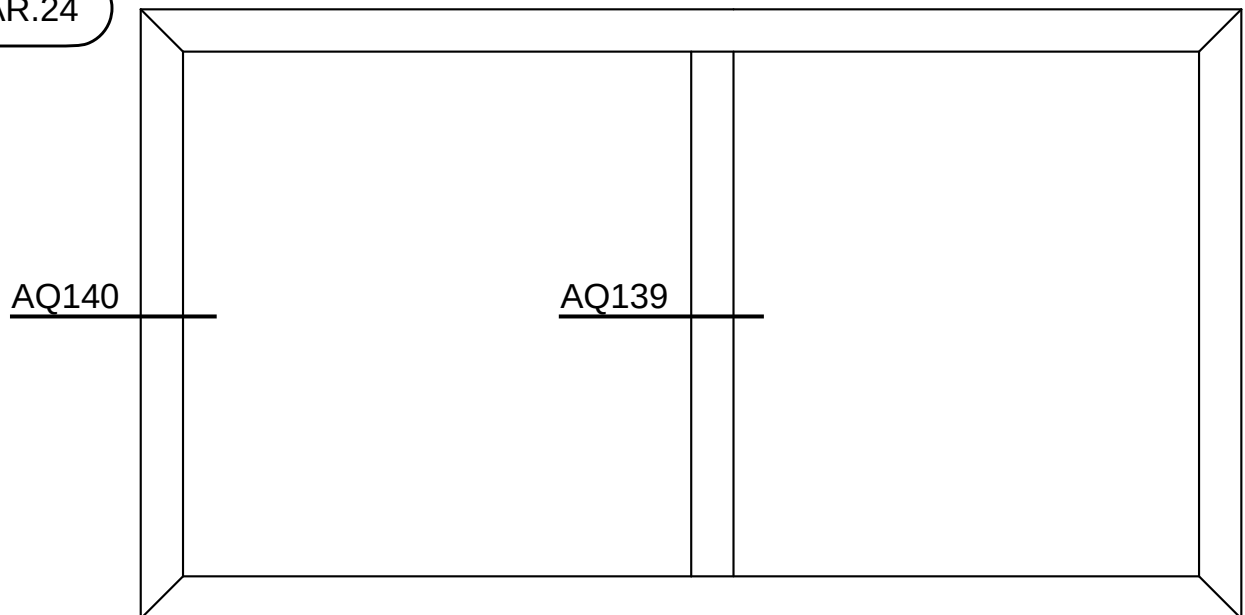


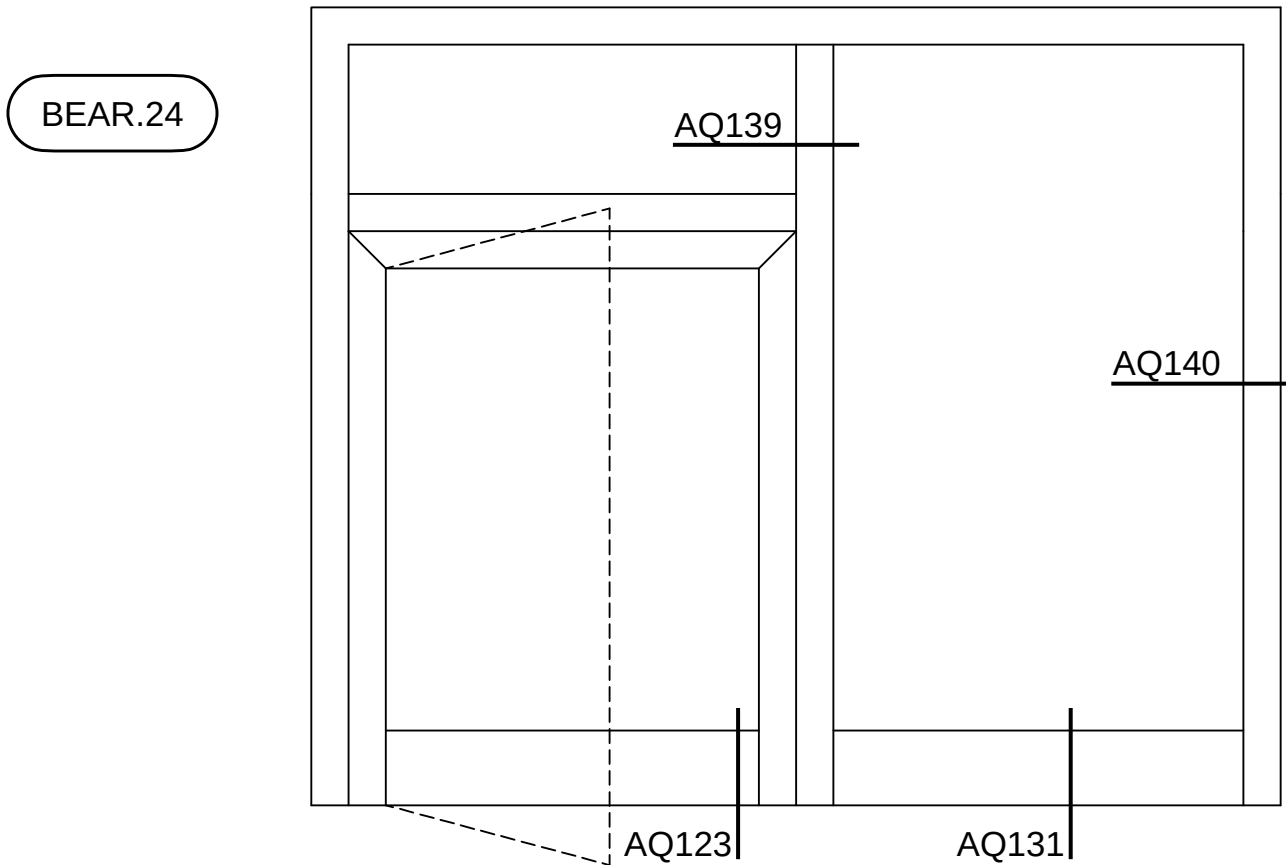
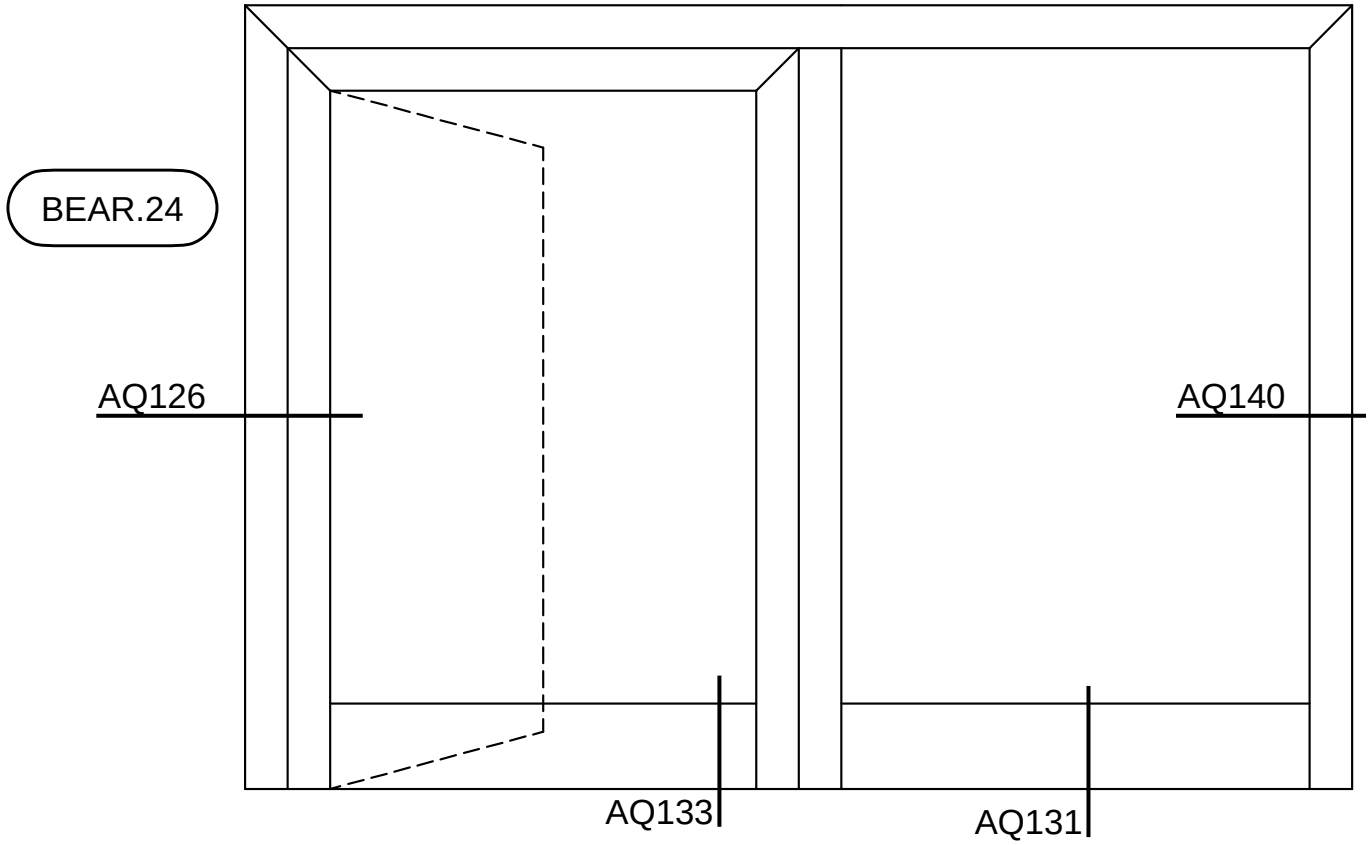


BEAR.24



BEAR.24

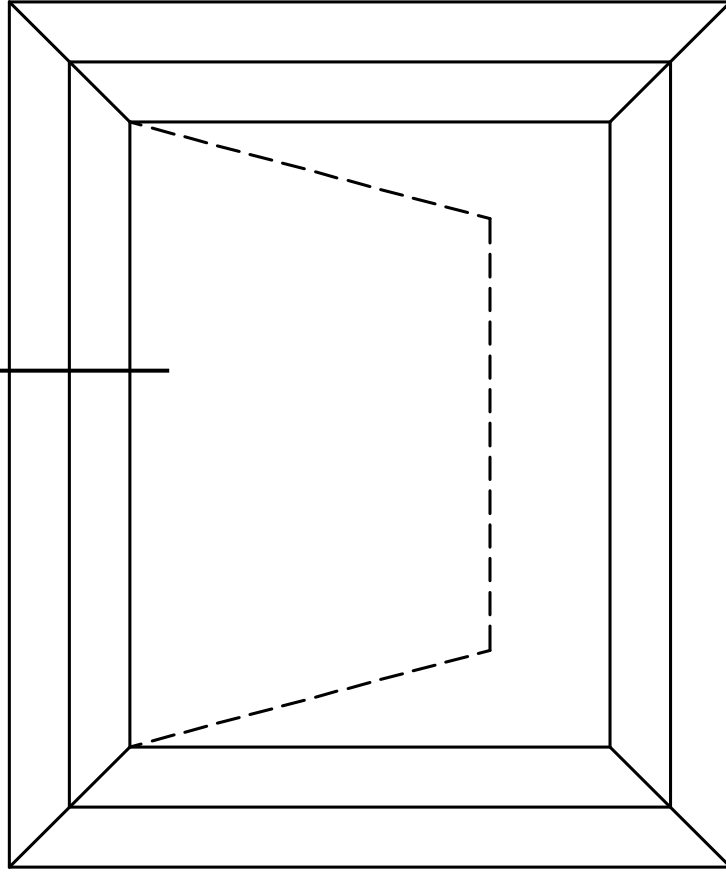






BEAR.34

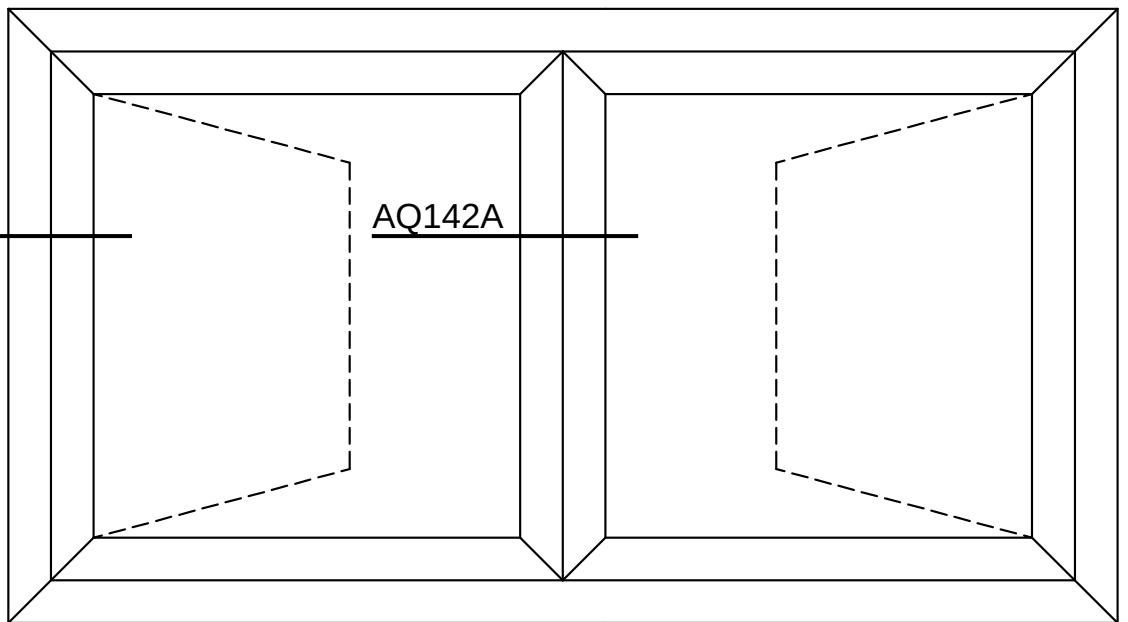
AQ141A/B/C/D/E



BEAR.34

AQ141A/B/D

AQ142A





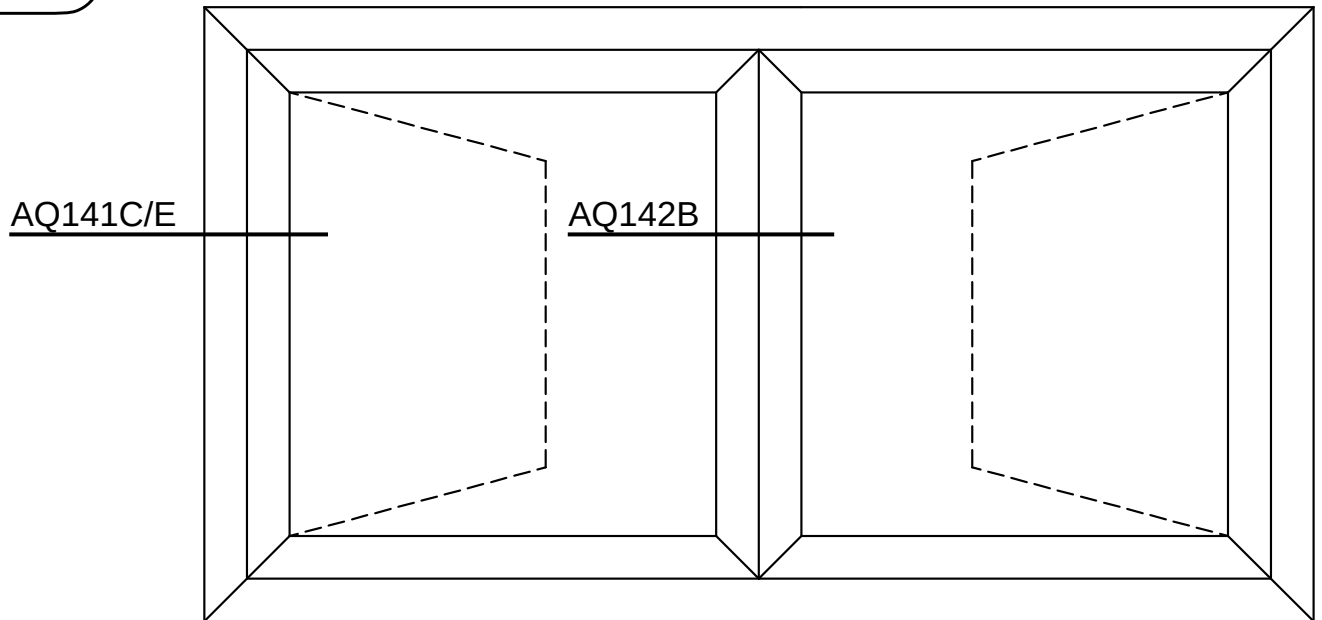
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BEAR.34





BEAR.34

AQ144

AQ151

BEAR.34

AQ144

AQ146

AQ151

SECTOR L.20



BEAR.34

AQ145

AQ150

BEAR.34

AQ145

AQ147

AQ150

SECTOR L.21



BEAR.34

AQ152

AQ153

AQ148

BEAR.34

AQ145

AQ154

AQ148

SECTOR L.22



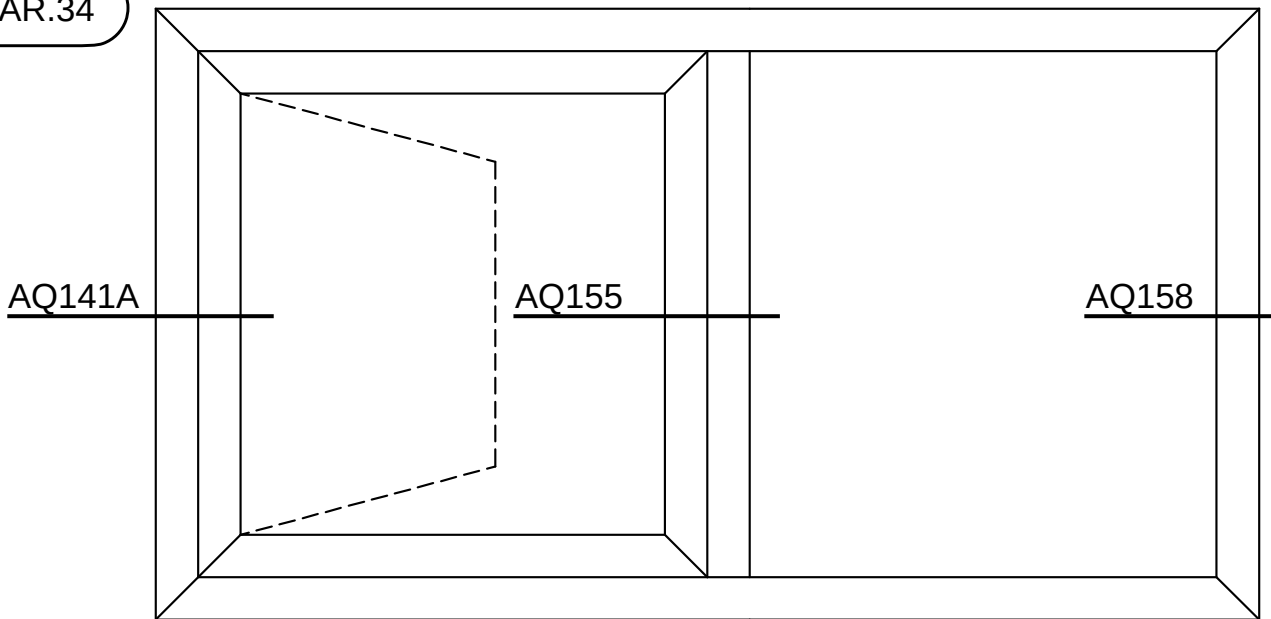
GALEX
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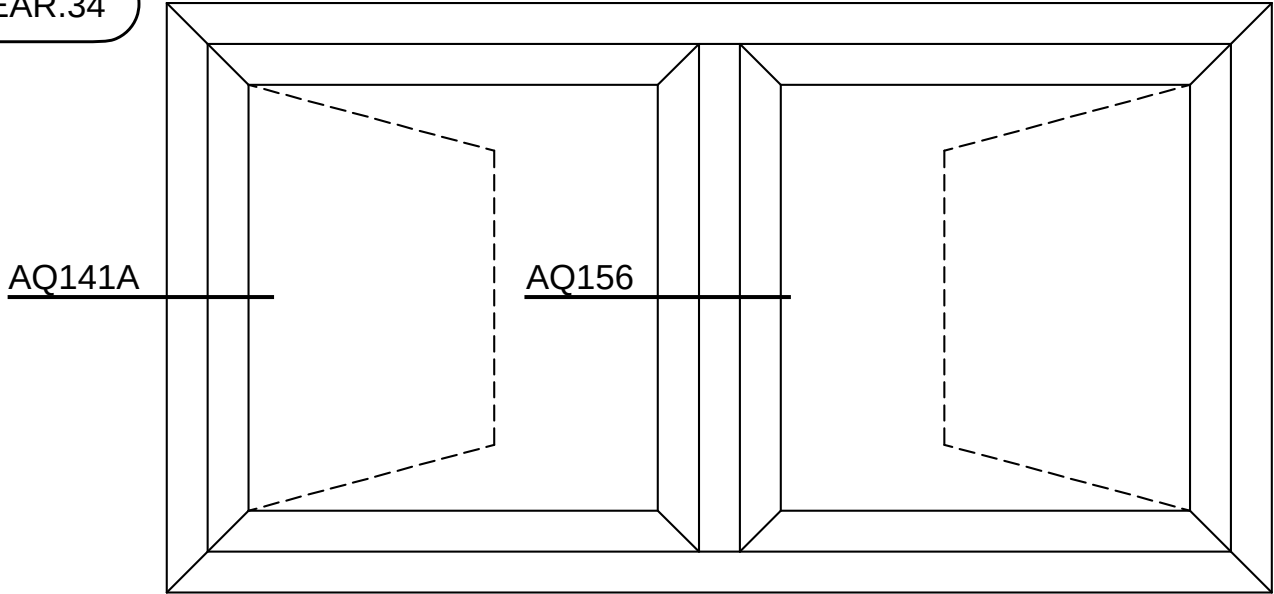


BEAR.34

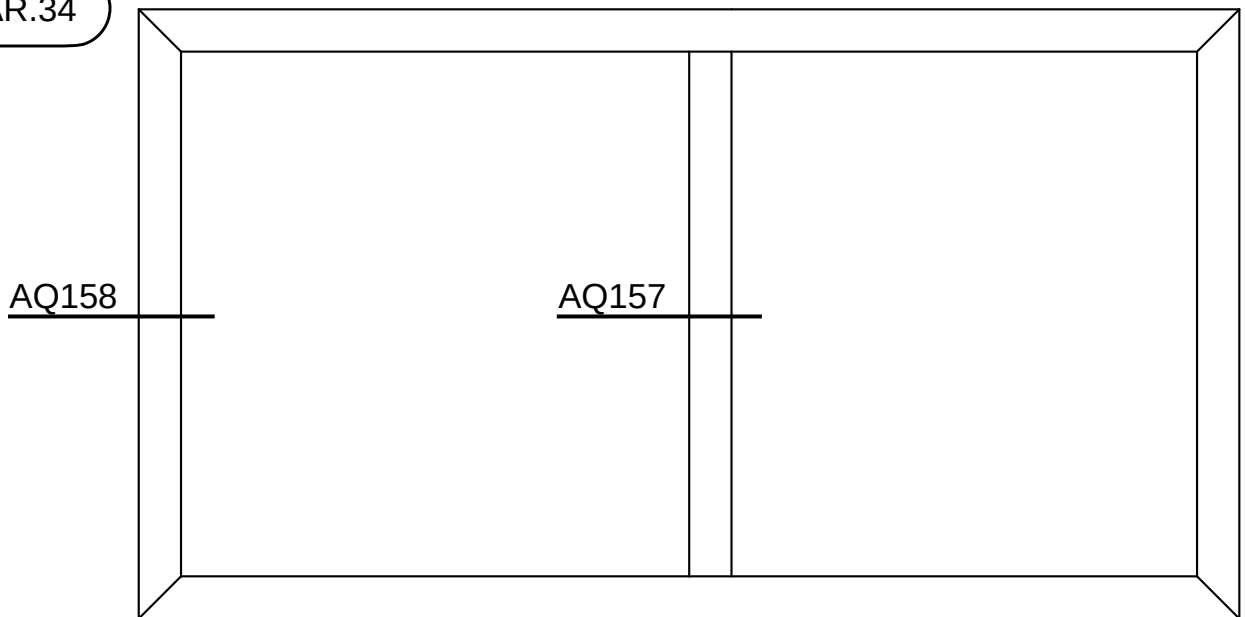


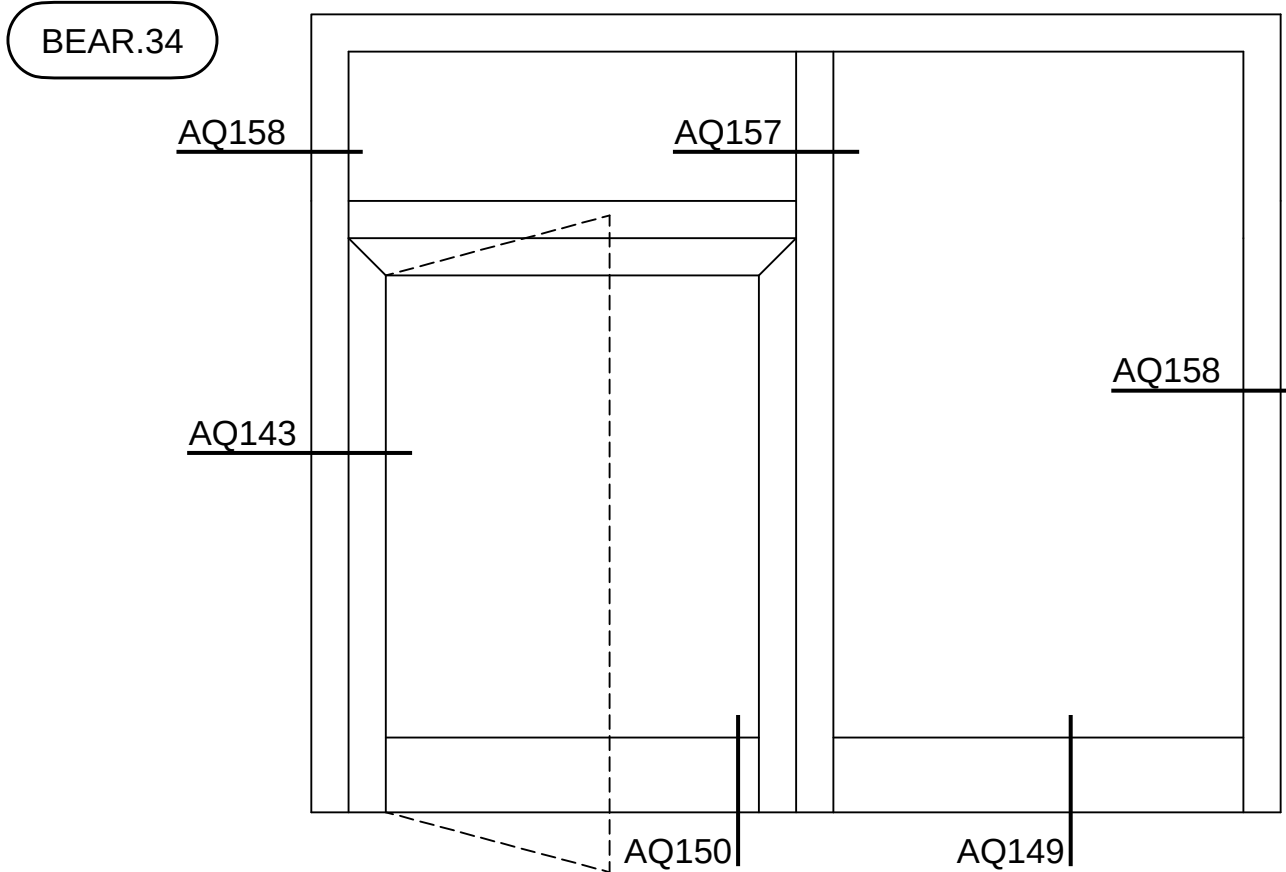
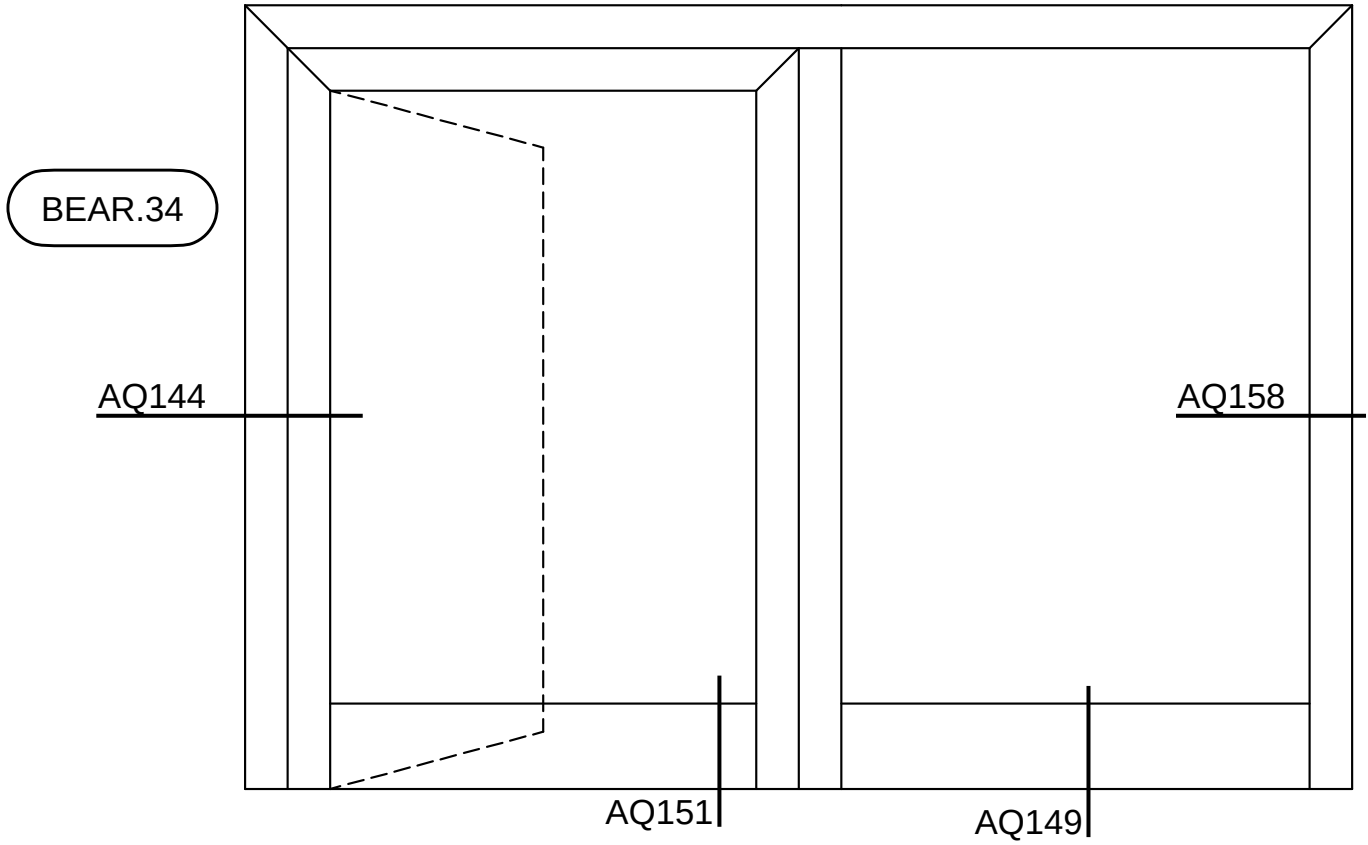


BEAR.34



BEAR.34

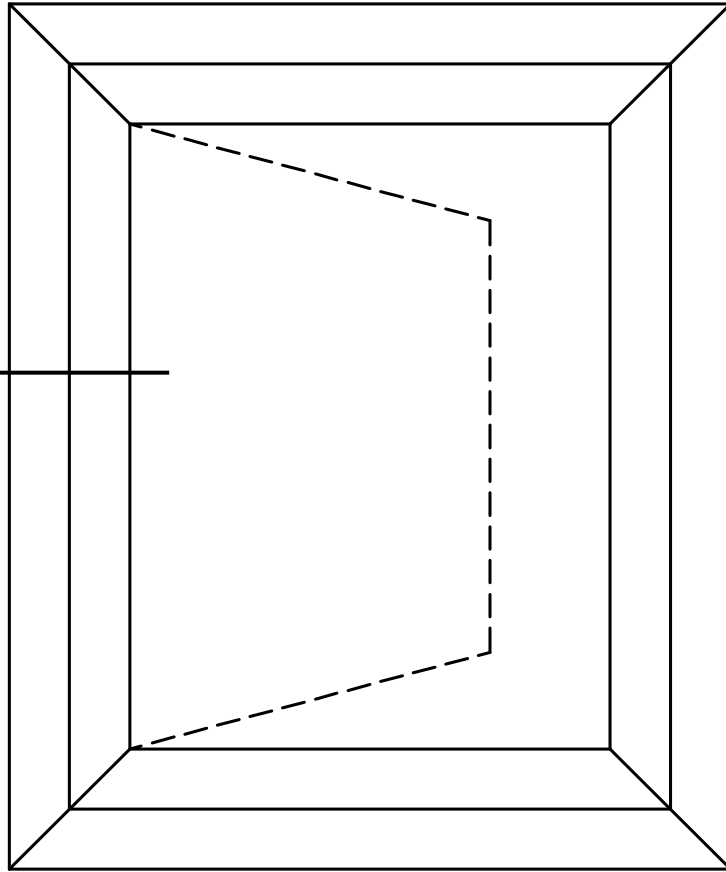






BEAR.C

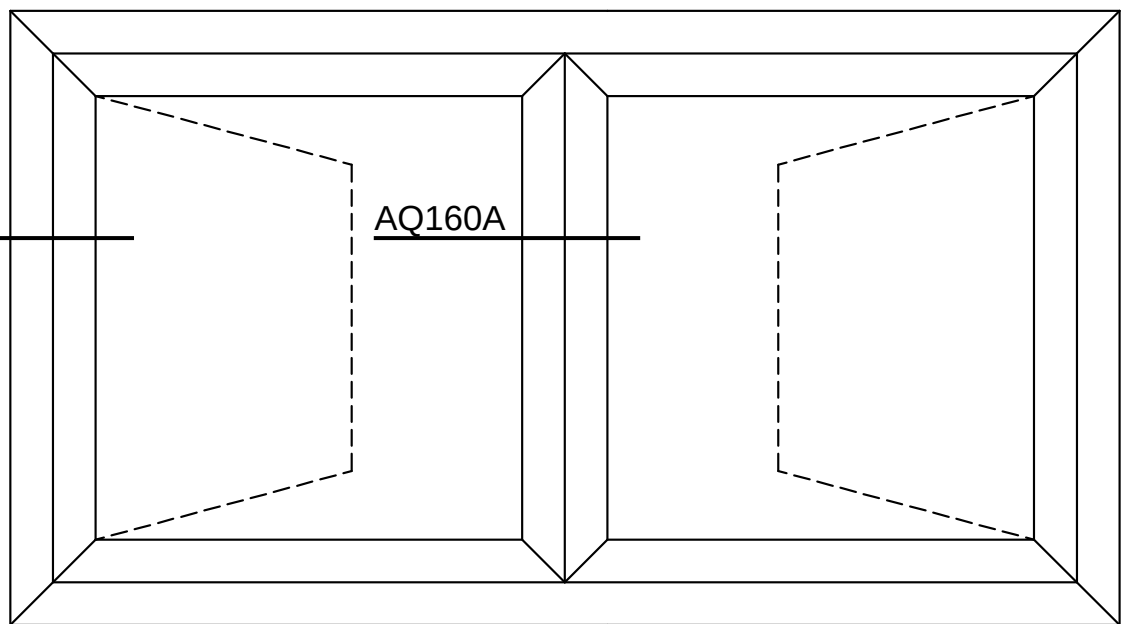
AQ159A/B/C/D/E



BEAR.C

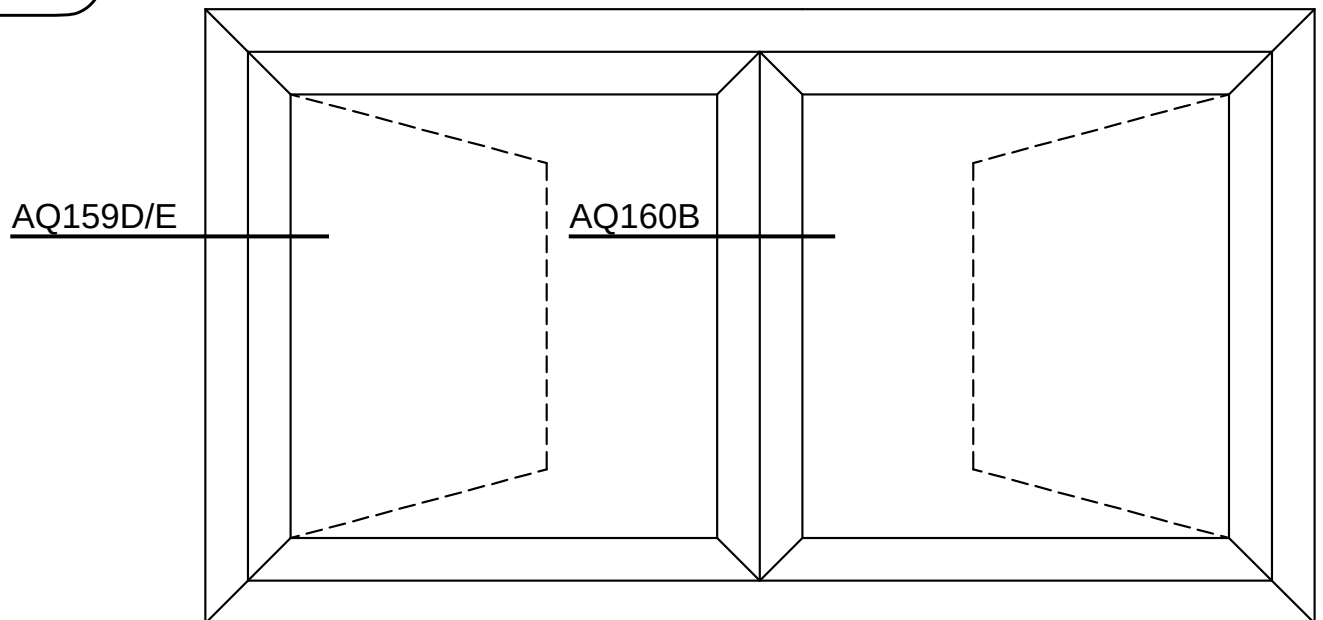
AQ159A/B/C

AQ160A





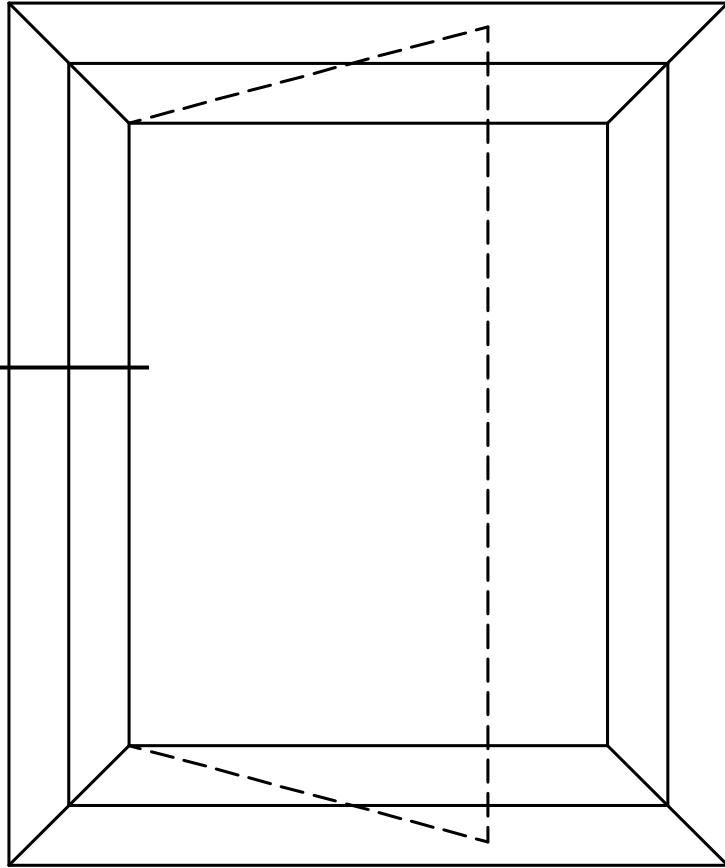
BEAR.C





BEAR.C

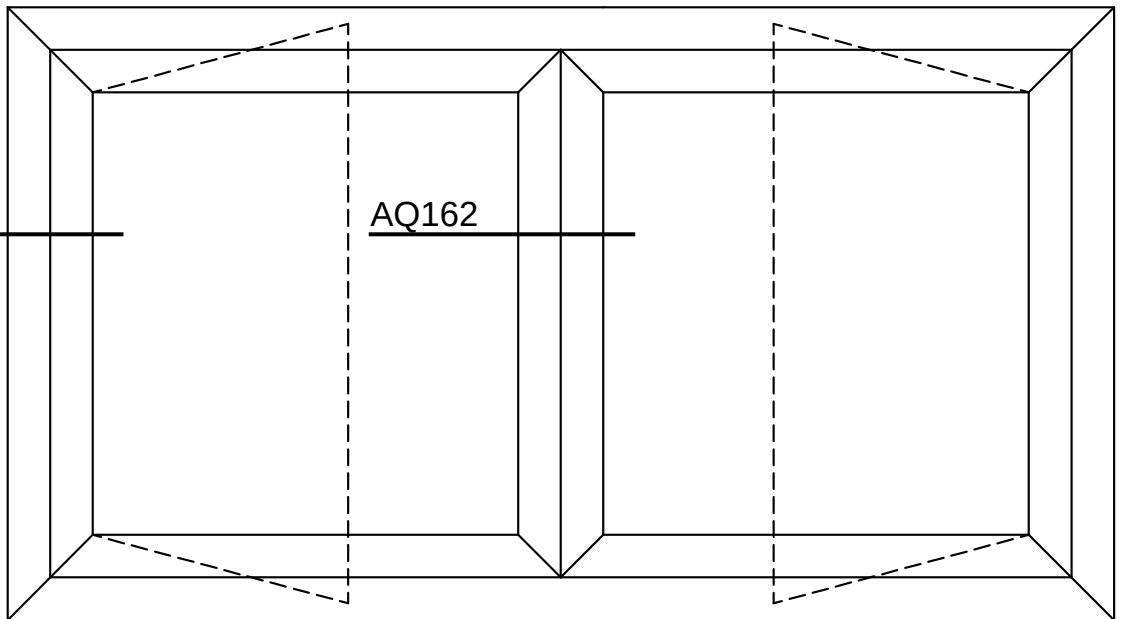
AQ161



BEAR.C

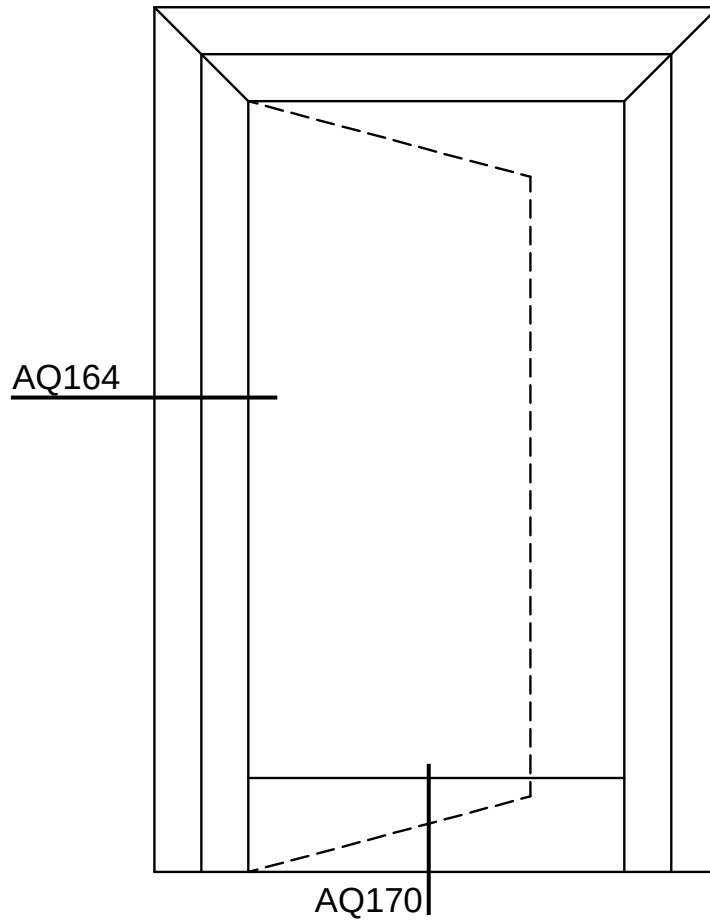
AQ161

AQ162

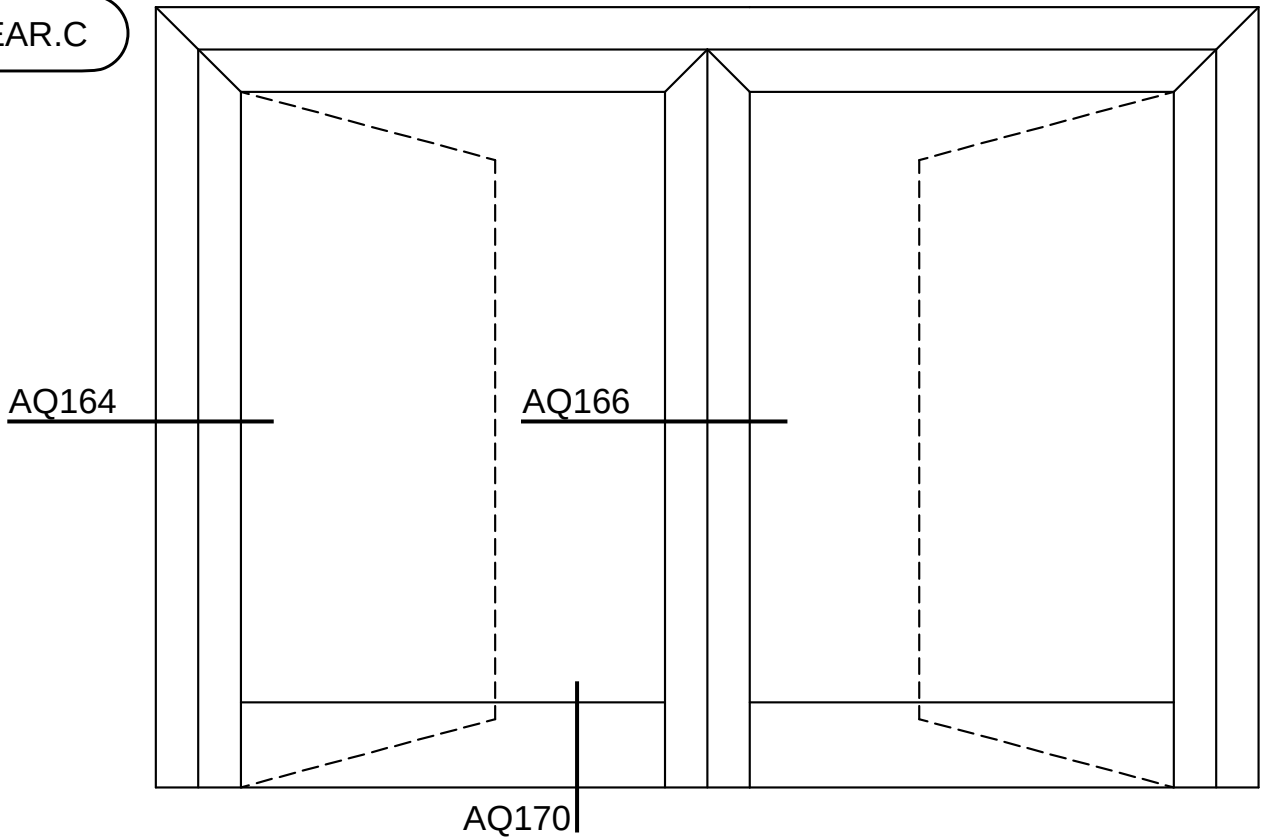




BEAR.C

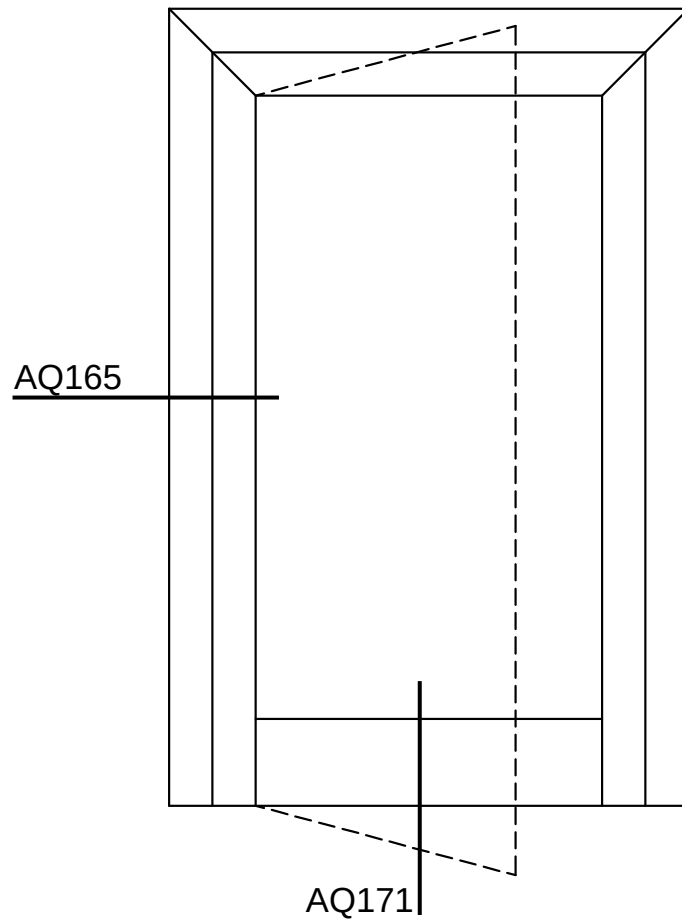


BEAR.C

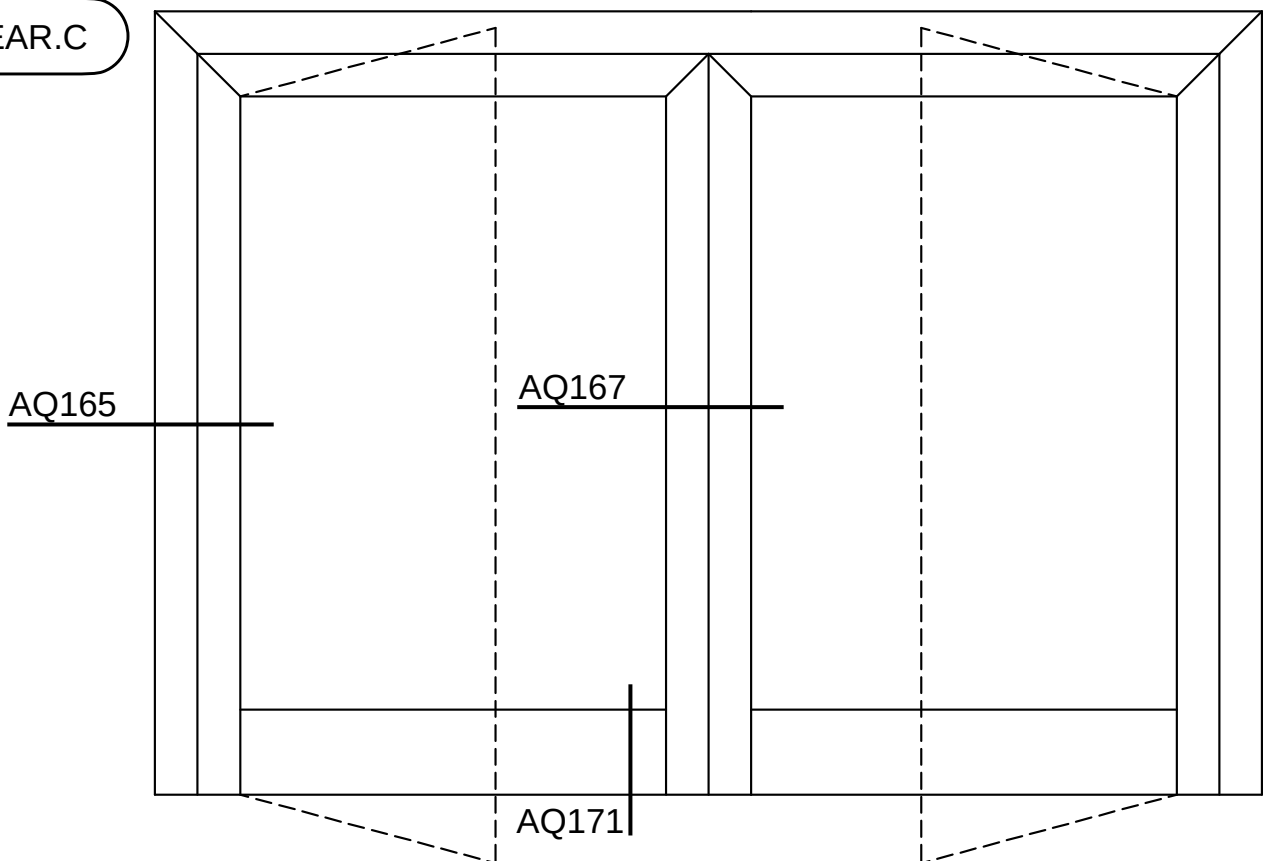




BEAR.C



BEAR.C



SECTOR L.30



BEAR.C

AQ172

AQ173

AQ169

BEAR.C

AQ165

AQ174

AQ169

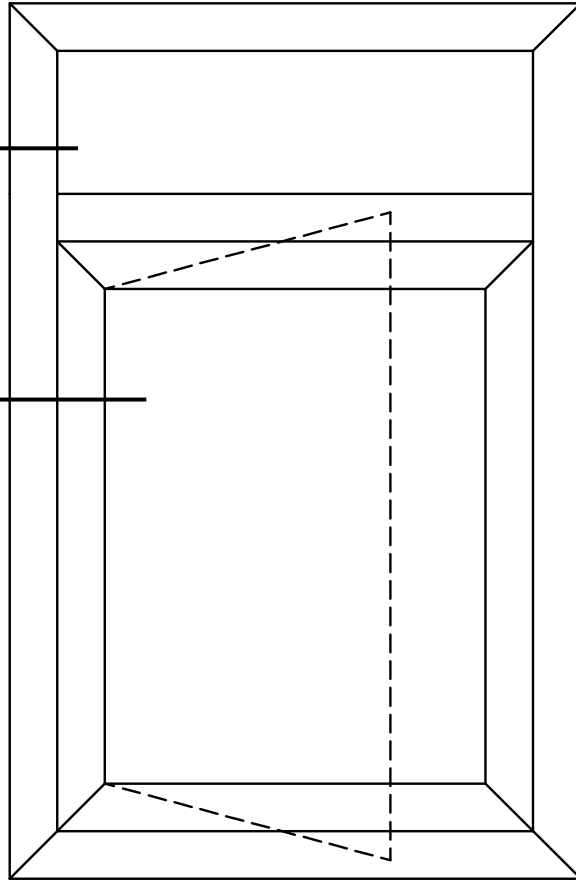
SECTOR L.31



BEAR.C

AQ178

AQ163

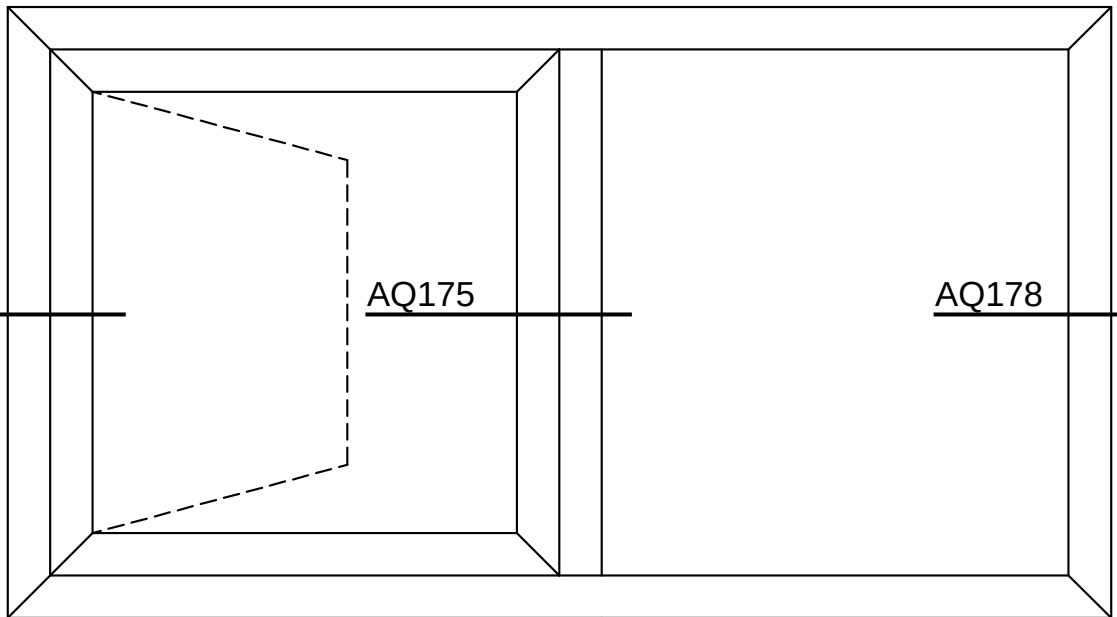


BEAR.C

AQ159A

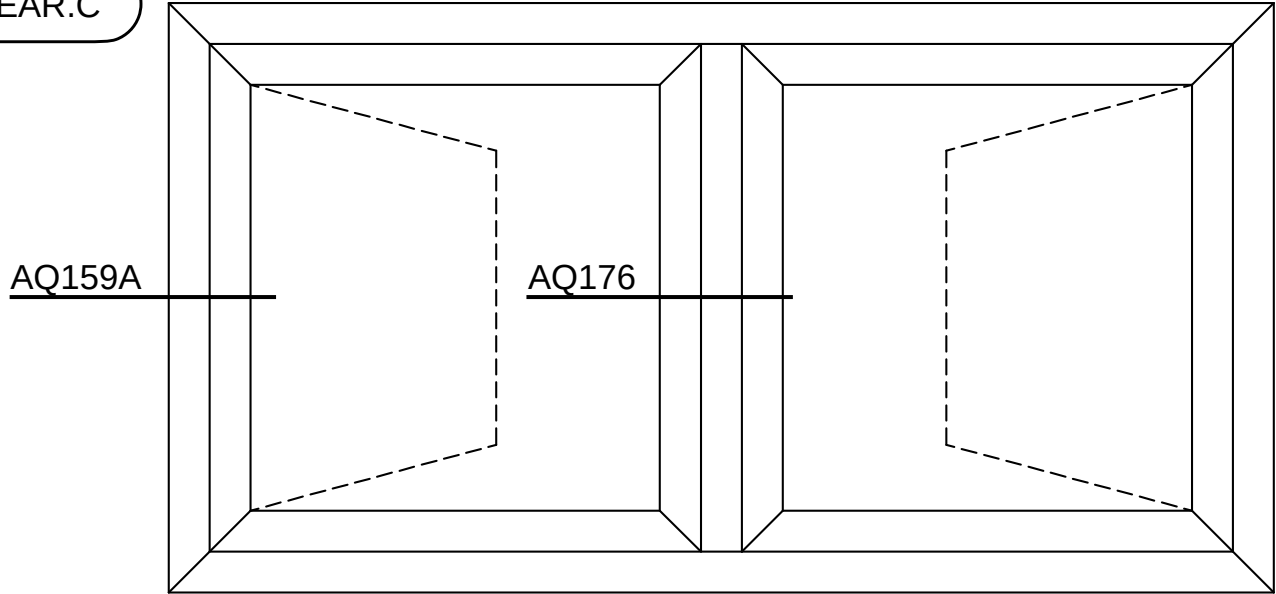
AQ175

AQ178

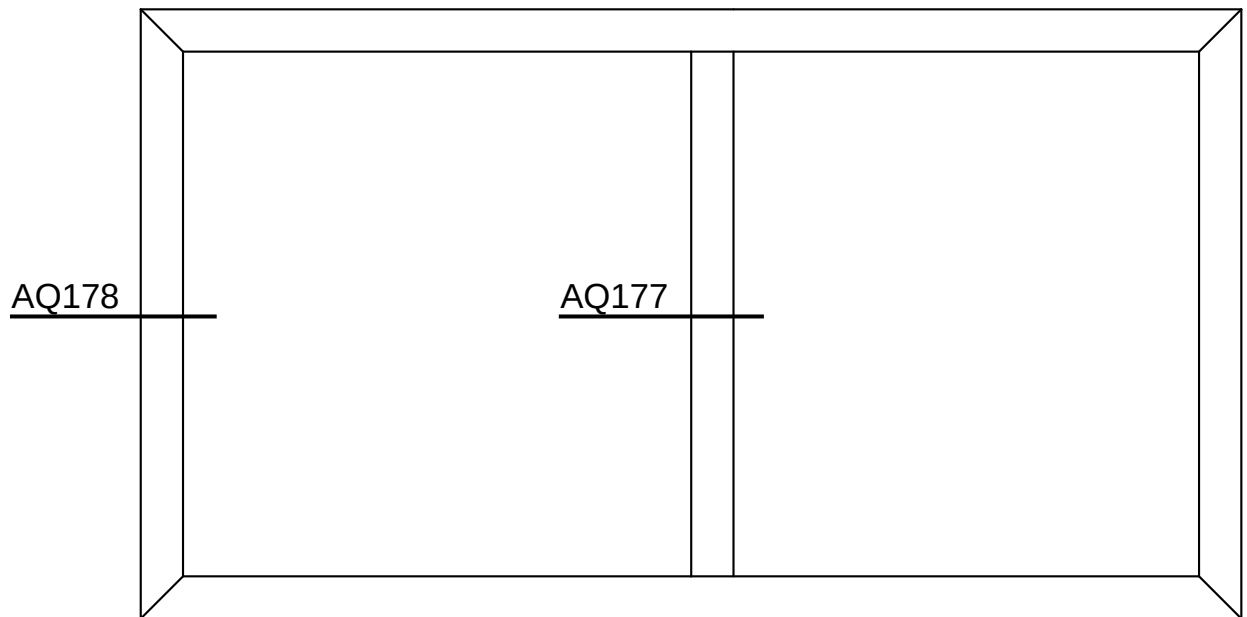




BEAR.C

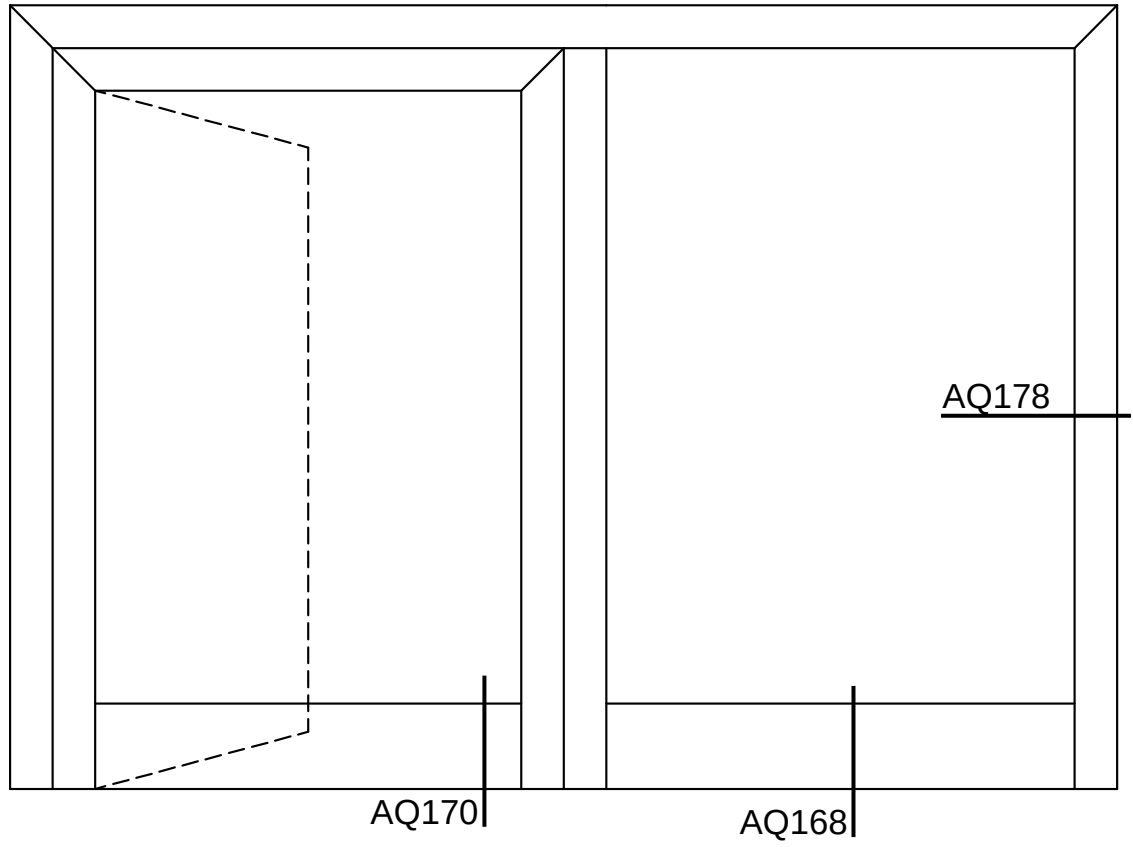


BEAR.C

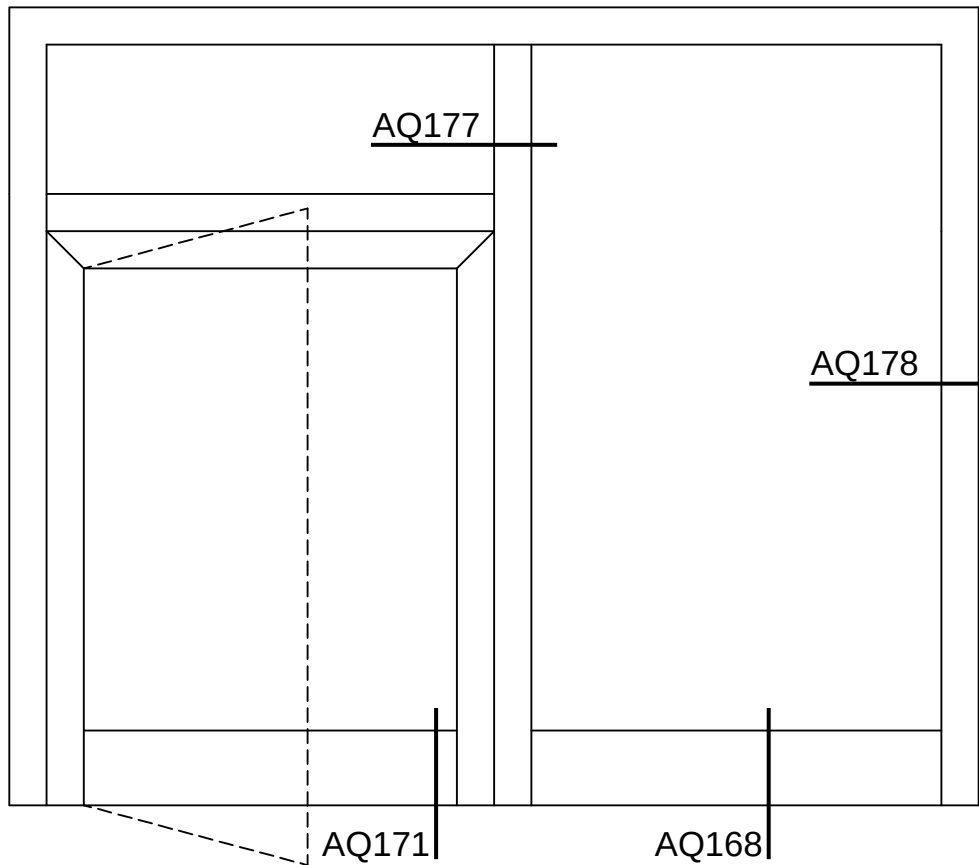




BEAR.C



BEAR.C



Sector M

Cutting lists



WINDOW OPEN IN

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	2	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 45°
9080504	9080504(A)	9080504(B)	90906	sash horizontal	2	W- 46	45° 45°
9080504	9080504(A)	9080504(B)	90906	sash vertical	2	H - 46	45° 45°
90885	90885	90885	90885	horizontal glazing bead	2	W-140	90° 90°
90855	90855	90855	90855	vertical glazing bead	2	H- 184	90° 90°
QXP003				control rod			90° 90°

FITTINGS

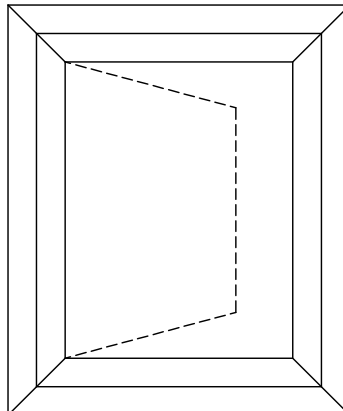
QXA0547	QXA0547	QXA0547	QXA0630	frame corner joint	4		
QXA0548	QXA0548	QXA0548	X	external frame corner joint	4		
QXA0551	QXA0551	QXA0551	QXA0632	sash corner joint	4		
QXA0552	QXA0552	QXA0552	X	external sash corner joint	4		
QXA0570	QXA0571	QXA0572	QXA0570	vulcanized gasket corner joint	4		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	4		
QXA0599	QXA0599	QXA0599	QXA0599	handle	1		
QXA0629	QXA0629	QXA0629	QXA0629	handle connector	1		
QXA0595	QXA0595	QXA0595	QXA0595	hinges	2		
QXA0616	QXA0616	QXA0616	QXA0616	striking plate	2		
QXA0612	QXA0612	QXA0612	QXA0612	closing device	2		
QXA0628	QXA0628	QXA0628	QXA0628	sash support	1		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	4		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		
QXA0514	QXA0514	QXA0514	QXA0514	water cap	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+2H
QXG0501	QXG0501	QXG0501	QXG0501	internal gasket	2W+2H
QXG0506	QXG0507	QXG0508	QXG0506	central gasket	2W+2H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+2H

GLASS

			GLASS	pieces 1	W-144 x H-144
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SECTOR M.1



BOTTOM TILT

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	2	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 45°
9080504	9080504(A)	9080504(B)	90906	sash horizontal	2	W- 46	45° 45°
9080504	9080504(A)	9080504(B)	90906	sash vertical	2	H - 46	45° 45°
90885	90885	90885	90885	horizontal glazing bead	2	W-140	90° 90°
90855	90855	90855	90855	vertical glazing bead	2	H- 184	90° 90°

FITTINGS

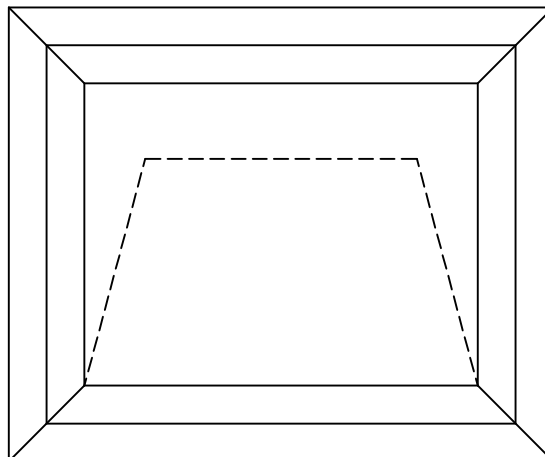
QXA0547	QXA0547	QXA0547	QXA0630	frame corner joint	4		
QXA0548	QXA0548	QXA0548	X	external frame corner joint	4		
QXA0551	QXA0551	QXA0551	QXA0632	sash corner joint	4		
QXA0552	QXA0552	QXA0552	X	external sash corner joint	4		
QXA0570	QXA0571	QXA0572	QXA0570	vulcanized gasket corner joint	4		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	4		
QXA0600	QXA0600	QXA0600	QXA0600	spring latch	1		
QXA0610	QXA0610	QXA0610	QXA0610	tilt arm	2		
QXA0595	QXA0595	QXA0595	QXA0595	hinges	2		
QXA0628	QXA0628	QXA0628	QXA0628	sash support	1		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	4		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		
QXA0514	QXA0514	QXA0514	QXA0514	water cap	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+2H
QXG0501	QXG0501	QXG0501	QXG0501	internal gasket	2W+2H
QXG0506	QXG0507	QXG0508	QXG0506	central gasket	2W+2H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+2H

GLASS

			GLASS	pieces 1	W-144 x H-144
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WINDOW 2 WINGS OPEN IN

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	2	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 45°
9080504	9080504(A)	9080504(B)	90906	sash horizontal	4	(W-51) / 2	45° 45°
9080504	9080504(A)	9080504(B)	90906	sash vertical	4	H - 46	45° 45°
9082726	9082726(A)	9082726(B)	90908	stulp	1	H-116	90° 90°
90885	90885	90885	90885	horizontal glazing bead	4	(W-239) / 2	90° 90°
90855	90855	90855	90855	vertical glazing bead	4	H- 184	90° 90°
QXP003				control rod			90° 90°

FITTINGS

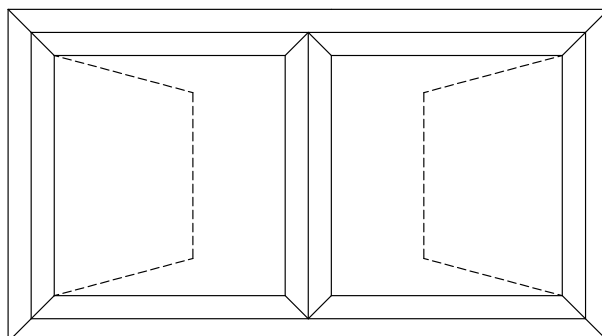
QXA0547	QXA0547	QXA0547	QXA0630	frame corner joint	4		
QXA0548	QXA0548	QXA0548	x	external frame corner joint	4		
QXA0551	QXA0551	QXA0551	QXA0632	sash corner joint	8		
QXA0552	QXA0552	QXA0552	x	external sash corner joint	8		
QXA0567	QXA0567	QXA0567	QXA0567	nylon plugs window 2 wings open	1		
QXA0570	QXA0571	QXA0572	QXA0570	vulcanized gasket corner joint	4		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	8		
QXA0599	QXA0599	QXA0599	QXA0599	handle	1		
QXA0629	QXA0629	QXA0629	QXA0629	handle connector	2		
QXA0595	QXA0595	QXA0595	QXA0595	hinges	4		
QXA0616	QXA0616	QXA0616	QXA0616	striking plate	2		
QXA0612	QXA0612	QXA0612	QXA0612	closing device	2		
QXA0628	QXA0628	QXA0628	QXA0628	sash support	2		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	8		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		
QXA0514	QXA0514	QXA0514	QXA0514	water cap	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+4H
QXG0501	QXG0501	QXG0501	QXG0501	internal gasket	2W+3H
QXG0506	QXG0507	QXG0508	QXG0506	central gasket	2W+3H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+4H

GLASS

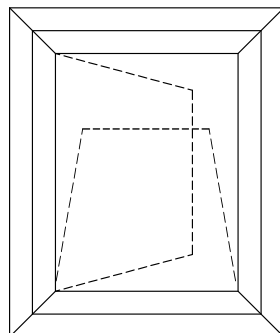
			GLASS	pieces 2	(W-267) / 2 x H -144
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SECTOR M.3



TURN AND TILT WINDOW							
SECTIONS							
Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	2	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 45°
9080504	9080504(A)	9080504(B)	90906	sash horizontal	2	W- 46	45° 45°
9080504	9080504(A)	9080504(B)	90906	sash vertical	2	H - 46	45° 45°
90885	90885	90885	90885	horizontal glazing bead	2	W-140	90° 90°
90855	90855	90855	90855	vertical glazing bead	2	H- 184	90° 90°
QXP003				control rod			90° 90°
FITTINGS							
QXA0547	QXA0547	QXA0547	QXA0630	frame corner joint	4		
QXA0548	QXA0548	QXA0548	X	external frame corner joint	4		
QXA0551	QXA0551	QXA0551	QXA0632	sash corner joint	4		
QXA0552	QXA0552	QXA0552	X	external sash corner joint	4		
QXA0570	QXA0571	QXA0572	QXA0570	vulcanized gasket corner joint	4		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	4		
QXA0598	QXA0598	QXA0598	QXA0598	turn and tilt handle	1		
QXA0617	QXA0617	QXA0617	QXA0617	turn and tilt device	1		
QXA0618	QXA0618	QXA0618	QXA0618	turn and tilt hinge hinge set	1		
QXA0619	QXA0619	QXA0619	QXA0619	turn and tilt arm	2		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	4		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		
QXA0514	QXA0514	QXA0514	QXA0514	water cap	according frame size		
GASKETS							
Code				Description	Dimension		
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+2H		
QXG0501	QXG0501	QXG0501	QXG0501	internal gasket	2W+2H		
QXG0506	QXG0507	QXG0506	QXG0506	central gasket	2W+2H		
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+2H		
GLASS							
			GLASS	pieces 1	W-144 x H-144		





TURN & TILT WINDOW

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	9080100	external frame transom	2	W	45° 45°
9080100	9080100(A)	9080100(B)	9080100	external frame mullion	2	H	45° 45°
9080504	9080504(A)	9080504(B)	9080504	sash horizontal	4	(W-51) / 2	45° 45°
9080504	9080504(A)	9080504(B)	9080504	sash vertical	4	H - 46	45° 45°
9082726	9082726(A)	9082726(B)	9082726	stulp	1	H-116	90° 90°
90885	90885	90885	90885	horizontal glazing bead	4	(W-239) / 2	90° 90°
90855	90855	90855	90855	vertical glazing bead	4	H- 184	90° 90°
QXP003				control rod			90° 90°

FITTINGS

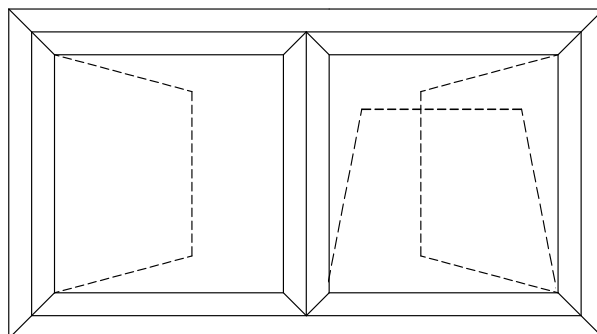
QXA0547	QXA0547	QXA0547	QXA0630	frame corner joint	4		
QXA0548	QXA0548	QXA0548	X	external frame corner joint	4		
QXA0551	QXA0551	QXA0551	QXA0632	sash corner joint	8		
QXA0552	QXA0552	QXA0552	X	external sash corner joint	8		
QXA0567	QXA0567	QXA0567	QXA0567	nylon plugs window 2 wings open	1		
QXA0570	QXA0571	QXA0572	QXA0570	vulcanized gasket corner joint	4		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	8		
QXA0598	QXA0598	QXA0598	QXA0598	turn and tilt handle	1		
QXA0617	QXA0617	QXA0617	QXA0617	turn and tilt device	1		
QXA0618	QXA0618	QXA0618	QXA0618	turn and tilt hinge set	1		
QXA0619	QXA0619	QXA0619	QXA0619	turn and tilt arm	1		
QXA0624	QXA0624	QXA0624	QXA0624	turn & turn and tilt hinge adaptor	1		
QXA0625	QXA0625	QXA0625	QXA0625	turn & turn and tilt latch set	1		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	8		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		
QXA0514	QXA0514	QXA0514	QXA0514	water cap	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+4H
QXG0501	QXG0501	QXG0501	QXG0501	internal gasket	2W+3H
QXG0506	QXG0507	QXG0508	QXG0506	central gasket	2W+3H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+4H

GLASS

			GLASS	pieces 2	(W-267) / 2 x H -144
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SECTOR M.5



WINDOW OPEN OUT

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	X	90900	external frame transom	2	W	45° 45°
9080100	9080100(A)	X	90900	external frame mullion	2	H	45° 45°
9080807	9080807(A)	X	90909	sash horizontal	2	W- 46	45° 45°
9080807	9080807(A)	X	90909	sash vertical	2	H - 46	45° 45°
90885	90885	X	90885	horizontal glazing bead	2	W-174	90° 90°
90855	90855	X	90855	vertical glazing bead	2	H- 218	90° 90°
QXP003				control rod			90° 90°

FITTINGS

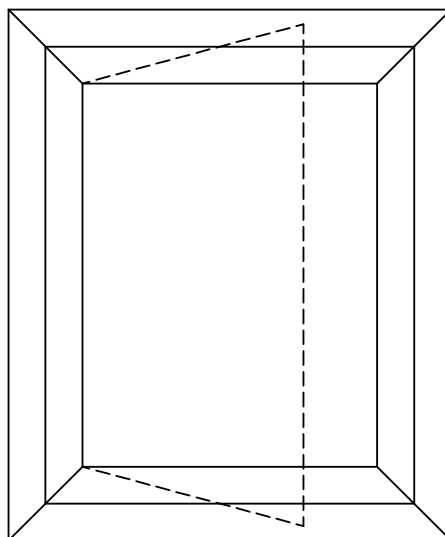
QXA0547	QXA0547	X	QXA0630	frame corner joint	4		
QXA0548	QXA0548	X	X	external frame corner joint	4		
QXA0558	QXA0558	X	QXA0558	sash corner joint	4		
QXA0555	QXA0555	X	QXA0555	external sash corner joint	4		
QXA0573	QXA0573	X	QXA0573	vulcanized glass gasket corner	4		
QXA0608	QXA0608	X	QXA0608	handle	1		
QXA0609	QXA0609	X	QXA0609	handle connector	1		
QXA0595	QXA0595	X	QXA0595	hinges	2		
QXA0616	QXA0616	X	QXA0616	striking plate	2		
QXA0612	QXA0612	X	QXA0612	closing device	2		
QXA0628	QXA0628	X	QXA0628	sash support	1		
QXA0577	QXA0578	X	QXA0577	sash glass spacer	4		
QXA0580	QXA0580	X	QXA0580	adjusting block	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	X	QXG0500	external glass gasket	2W+2H
QXG0501	QXG0501	X	QXG0501	internal gasket	4W+4H
QXG0512	QXG0512	X	QXG0512	internal glass gasket (according	2W+2H

GLASS

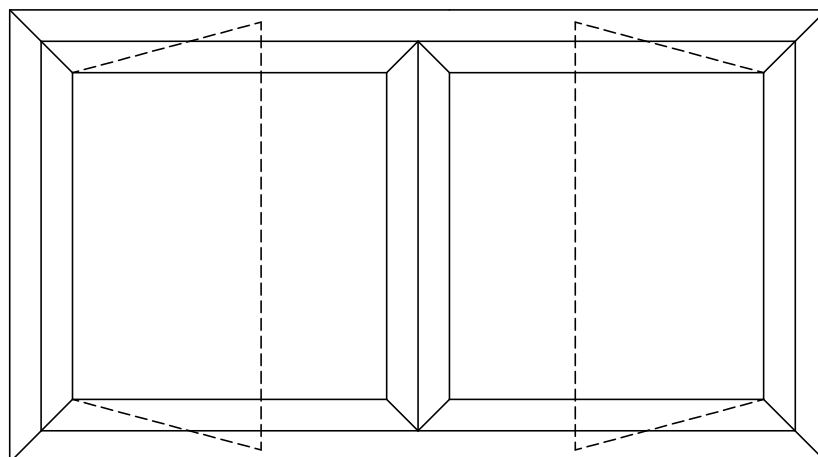
			GLASS	pieces 1	W-188 x H-188
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SECTOR M.6



WINDOW 2 WINGS OPEN OUT							
SECTIONS							
Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	X	90900	external frame transom	2	W	45° 45°
9080100	9080100(A)	X	90900	external frame mullion	2	H	45° 45°
9080807	9080807(A)	X	90909	sash horizontal	4	(W- 51) / 2	45° 45°
9080807	9080807(A)	X	90909	sash vertical	4	H - 46	45° 45°
9083130	9083130(A)	X	90911	stulp	1	H- 116	90° 90°
90885	90885	X	90885	horizontal glazing bead	2	(W-307) / 2	90° 90°
90855	90855	X	90855	vertical glazing bead	2	H- 218	90° 90°
QXP003				control rod			90° 90°
FITTINGS							
QXA0547	QXA0547	X	QXA0630	frame corner joint	4		
QXA0548	QXA0548	X	X	external frame corner joint	4		
QXA0558	QXA0558	X	QXA0558	sash corner joint	8		
QXA0555	QXA0555	X	QXA0555	external sash corner joint	8		
QXA0568	QXA0568	X	QXA0568	plugs door 2 wings	1		
QXA0573	QXA0573	X	QXA0573	vulcanized glass gasket corner	8		
QXA0608	QXA0608	X	QXA0608	handle	1		
QXA0609	QXA0609	X	QXA0609	handle connector	1		
QXA0595	QXA0595	X	QXA0595	hinges	2		
QXA0616	QXA0616	X	QXA0616	striking plate	2		
QXA0612	QXA0612	X	QXA0612	closing device	2		
QXA0628	QXA0628	X	QXA0628	sash support	1		
QXA0577	QXA0578	X	QXA0577	sash glass spacer	8		
QXA0580	QXA0580	X	QXA0580	adjusting block	according frame size		
GASKETS							
Code				Description	Dimension		
QXG0500	QXG0500	X	QXG0500	external glass gasket	2W+4H		
QXG0501	QXG0501	X	QXG0501	internal gasket	4W+8H		
QXG0512	QXG0512	X	QXG0512	internal glass gasket (according	2W+4H		
GLASS							
			GLASS	pieces 1	(W-335) / 2 x H-188		



SECTOR M.7



DOOR OPEN IN

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	1	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 90°
9083534	9083534(A)	9083534(B)	90921	lower horizontal frame open in	1	W-50	90° 90°
9081009	9081009(A)	9081009(B)	90912	Z sash horizontal	1	W-46	45° 45°
9081009	9081009(A)	9081009(B)	90912	Z sash vertical	2	H - 65,6	45° 90°
9082120	9082120(A)	9082120(B)	90916	sash lower transom	1	W - 190	90° 90°
9083332	9083332(A)	9083332(B)	90918	lower horizontal sealing section	1	W-46	90° 90°
90885	90885	90885	90885	horizontal glazing bead	2	W - 198	90° 90°
90855	90855	90855	90855	vertical glazing bead	2	H- 311,6	90° 90°

FITTINGS

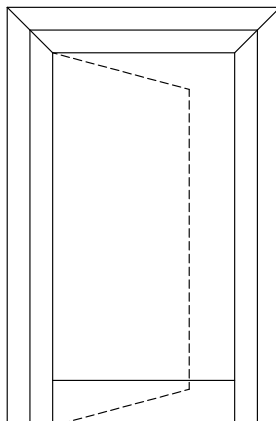
QXA0547	QXA0547	QXA0547	QXA0630	frame corner joint	2		
QXA0548	QXA0548	QXA0548	X	external frame corner joint	2		
QXA0553	QXA0553	QXA0553	QXA0553	sash corner joint	2		
QXA0554	QXA0554	QXA0554	QXA0554	external sash corner joint	2		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	4		
QXA0601	QXA0601	QXA0601	QXA0601	couple door handle	1		
QXA0602	QXA0602	QXA0602	QXA0602	couple cover cylinder	1		
QXA0597	QXA0597	QXA0597	QXA0597	hinges	4		
QXA0582	QXA0582	QXA0582	QXA0582	lock	1		
QXA0589	QXA0589	QXA0589	QXA0589	stainless steel adjustable striking	1		
QXA0591	QXA0592	QXA0593	QXA0591	cylinder	1		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	4		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+2H
QXG0501	QXG0501	QXG0501	QXG0501	internal gasket	3W+4H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+2H
QXB0502	QXB0502	QXB0502	QXB0502	extruded door brush	W

GLASS

			GLASS	pieces 1	W-212 x H-281
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SECTOR M.8



DOOR 2 WINGS OPEN IN

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	1	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 90°
9083534	9083534(A)	9083534(B)	90921	lower horizontal frame	1	W-50	90° 90°
9081009	9081009(A)	9081009(B)	90912	Z sash horizontal	2	(W-51) / 2	45° 45°
9081009	9081009(A)	9081009(B)	90912	Z sash horizontal	4	H - 65,6	45° 90°
9083130	9083130(A)	9083130(B)	90911	stulp	1	H - 100,6	90° 90°
9082120	9082120(A)	9082120(B)	90916	lower transom	2	(W - 339) /	90° 90°
9083332	9083332(A)	9083332(B)	90918	lower horizontal sealing section	1	(W - 51) / 2	90° 90°
90885	90885	90885	90885	horizontal glazing bead	2	(W - 355) /	90° 90°
90855	90855	90855	90855	vertical glazing bead	2	H- 311,6	90° 90°

FITTINGS

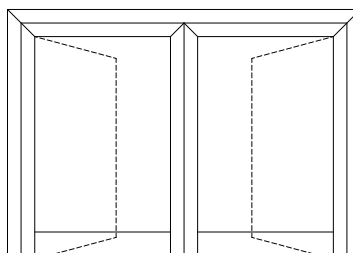
QXA0547	QXA0547	QXA0547	QXA0630	frame corner joint	2		
QXA0548	QXA0548	QXA0548	X	external frame corner joint	2		
QXA0553	QXA0553	QXA0553	QXA0553	sash corner joint	4		
QXA0554	QXA0554	QXA0554	QXA0554	external sash corner joint	4		
QXA0568	QXA0568	QXA0568	QXA0568	door 2 wings plugs	1		
QXA0569	QXA0569	QXA0569	QXA0569	door 2 wings lower plugs	1		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	8		
QXA0601	QXA0601	QXA0601	QXA0601	couple door handle	1		
QXA0602	QXA0602	QXA0602	QXA0602	couple cover cylinder	1		
QXA0597	QXA0597	QXA0597	QXA0597	hinges	4		
QXA0603	QXA0603	QXA0603	QXA0603	couple latch door	1		
QXA0582	QXA0582	QXA0582	QXA0582	lock	1		
QXA0589	QXA0589	QXA0589	QXA0589	stainless steel adjustable striking	1		
QXA0591	QXA0592	QXA0593	QXA0591	cylinder	1		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	8		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+4H
QXG0501	QXG0501	QXG0501	QXG0501	internal gasket	3W+6H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+4H
QXB0502	QXB0502	QXB0502	QXB0502	extruded door brush	W

GLASS

			GLASS	pieces 2	(W - 383) / 2 x H-281
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SECTOR M.9



DOOR OPEN OUT

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	1	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 90°
9083834	9083834(A)	9083834(B)	90919	lower horizontal frame	1	W-50	90° 90°
9081211	9081211(A)	9081211(B)	90913	T sash horizontal	1	W-46	45° 45°
9081211	9081211(A)	9081211(B)	90913	T sash vertical	2	H - 65,6	45° 90°
9082120	9082120(A)	9082120(B)	90916	lower transom	1	W - 190	90° 90°
9083736	9083736(A)	9083736(B)	90920	lower horizontal sealing section	1	W-46	90° 90°
90885	90885	90885	90885	horizontal glazing bead	2	W - 198	90° 90°
90855	90855	90855	90855	vertical glazing bead	2	H- 311,6	90° 90°

FITTINGS

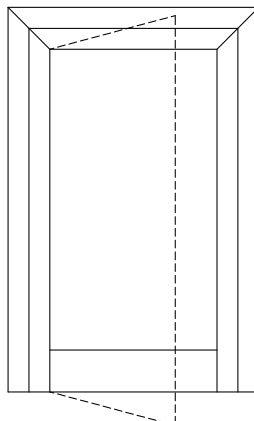
QXA0547	QXA0547	QXA0547	QXA0630	frame corner joint	2		
QXA0548	QXA0548	QXA0548	X	external frame corner joint	2		
QXA0553	QXA0553	QXA0553	QXA0553	sash corner joint	2		
QXA0554	QXA0554	QXA0554	QXA0554	external sash corner joint	2		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	4		
QXA0601	QXA0601	QXA0601	QXA0601	couple door handle	1		
QXA0602	QXA0602	QXA0602	QXA0602	couple cover cylinder	1		
QXA0597	QXA0597	QXA0597	QXA0597	hinges	4		
QXA0582	QXA0582	QXA0582	QXA0582	lock	1		
QXA0589	QXA0589	QXA0589	QXA0589	stainless steel adjustable striking	1		
QXA0591	QXA0592	QXA0593	QXA0591	cylinder	1		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	4		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+2H
QXG0501	QXG0501	QXG0501	QXG0501	internal gasket	3W+4H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+2H
QXB0502	QXB0502	QXB0502	QXB0502	extruded door brush	W

GLASS

			GLASS	pieces 1	W-212 x H-281
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SECTOR M.10



DOOR 2 WINGS OPEN OUT

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	1	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 90°
9083834	9083834(A)	9083834(B)	90919	lower horizontal frame	1	W-50	90° 90°
9081211	9081211(A)	9081211(B)	90913	T sash horizontal	2	(W-51) / 2	45° 45°
9081211	9081211(A)	9081211(B)	90913	T sash vertical	4	H - 65,6	45° 90°
9083130	9083130(A)	9083130(B)	90911	stulp	1	H - 100,6	90° 90°
9082120	9082120(A)	9082120(B)	90916	lower transom	2	(W - 339) /	90° 90°
9083736	9083736(A)	9083736(B)	90920	lower horizontal sealing section	1	(W - 51) / 2	90° 90°
90885	90885	90885	90885	horizontal glazing bead	2	(W - 355) /	90° 90°
90855	90855	90855	90855	vertical glazing bead	2	H- 311,6	90° 90°

FITTINGS

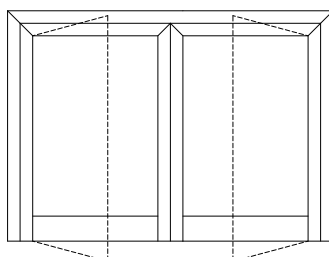
QXA0547	QXA0547	QXA0547	QXA0630	frame corner joint	2		
QXA0548	QXA0548	QXA0548	X	external frame corner joint	2		
QXA0553	QXA0553	QXA0553	QXA0553	sash corner joint	4		
QXA0554	QXA0554	QXA0554	QXA0554	external sash corner joint	4		
QXA0568	QXA0568	QXA0568	QXA0568	door 2 wings plugs	1		
QXA0569	QXA0569	QXA0569	QXA0569	door 2 wings lower plugs	1		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	8		
QXA0601	QXA0601	QXA0601	QXA0601	couple door handle	1		
QXA0602	QXA0602	QXA0602	QXA0602	couple cover cylinder	1		
QXA0597	QXA0597	QXA0597	QXA0597	hinges	4		
QXA0603	QXA0603	QXA0603	QXA0603	couple latch door	1		
QXA0582	QXA0582	QXA0582	QXA0582	lock	1		
QXA0589	QXA0589	QXA0589	QXA0589	stainless steel adjustable striking	1		
QXA0591	QXA0592	QXA0593	QXA0591	cylinder	1		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	8		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+4H
QXG0501	QXG0501	QXG0501	QXG0501	internal gasket	3W+6H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+4H
QXB0502	QXB0502	QXB0502	QXB0502	extruded door brush	W

GLASS

			GLASS	pieces 2	(W - 383) / 2 x H-281
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SECTOR M.11



SWING DOOR 2 WINGS

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	1	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 90°
9085352	9085352(A)	9085352(B)	90923	swing frame horizontal	1	W - 58	45° 45°
9085352	9085352(A)	9085352(B)	90923	swing fraame vertical	2	H - 29	45° 90°
9081211	9081211(A)	9081211(B)	90913	T sash horizontal	2	(W-177,6) /	45° 45°
9081211	9081211(A)	9081211(B)	90913	T sash vertical	4	H - 83,8	45° 90°
9085150	9085150(A)	9085150(B)	90924	swing sash horizontal	2	(W - 161,6)	45° 45°
9085150	9085150(A)	9085150(B)	90924	swing sash vertical	4	H - 79,8	45° 90°
9082120	9082120(A)	9082120(B)	90916	lower transom	2	(W - 465,6)	90° 90°
90885	90885	90885	90885	horizontal glazing bead	4	(W - 481,6)	90° 90°
90855	90855	90855	90855	vertical glazing bead	4	H- 307,8	90° 90°

FITTINGS

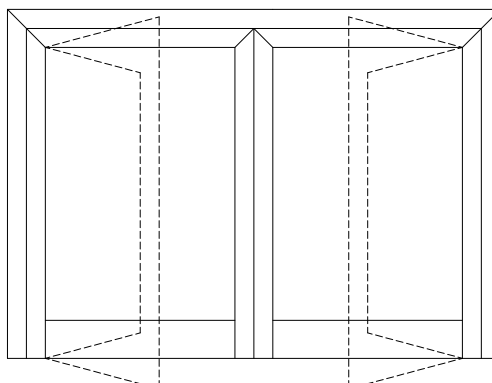
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QXA0554	QXA0554	QXA0554	QXA0554	external sash corner joint	4		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	8		
QXA0602	QXA0602	QXA0602	QXA0602	couple cover cylinder	2		
QXA0594	QXA0594	QXA0594	QXA0594	upper pivot hinges	2		
QXA0587	QXA0587	QXA0587	QXA0587	lock	2		
QXA0588	QXA0588	QXA0588	QXA0588	internal rods for additional lock	2		
QXA0591	QXA0592	QXA0593	QXA0591	cylinder	2		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	8		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+4H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+4H
QXB0502	QXB0502	QXB0502	QXB0502	extruded door brush	2W
QXB0503	QXB0503	QXB0503	QXB0503	brush for swing door	4W + 12H

GLASS

			GLASS	pieces 2	(W - 509,6) / 2 x H-299,8
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SECTOR M.12



HALF SWING DOOR 2 WINGS

SECTIONS

Code				Description	Pieces	Dimension	Cut angle
BEAR.16	BEAR.24	BEAR.34	BEAR.C				
9080100	9080100(A)	9080100(B)	90900	external frame transom	1	W	45° 45°
9080100	9080100(A)	9080100(B)	90900	external frame mullion	2	H	45° 90°
9081211	9081211(A)	9081211(B)	90913	T sash horizontal	2	(W-70) / 2	45° 45°
9081211	9081211(A)	9081211(B)	90913	T sash vertical	4	H - 30	45° 90°
9084140	9084140(A)	9084140(B)	90922	swing sash vertical	2	H - 30	90° 90°
9082120	9082120(A)	9082120(B)	99916	lower transom	2	(W - 358) /	90° 90°
90885	90885	90885	90885	horizontal glazing bead	4	(W - 374) /	90° 90°
90855	90855	90855	90855	vertical glazing bead	4	H- 276	90° 90°

FITTINGS

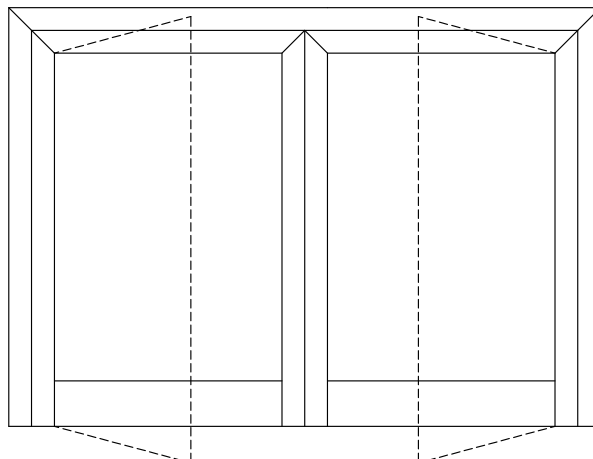
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QXA0548	QXA0548	QXA0548	X	external frame corner joint	2		
QXA0553	QXA0553	QXA0553	QXA0553	sash corner joint	4		
QXA0554	QXA0554	QXA0554	QXA0554	external sash corner joint	4		
QXA0573	QXA0573	QXA0573	QXA0573	vulcanized glass gasket corner	8		
QXA0602	QXA0602	QXA0602	QXA0602	couple cover cylinder	1		
QXA0597	QXA0597	QXA0597	QXA0597	hinges	6		
QXA0603	QXA0603	QXA0603	QXA0603	couple latch door	1		
QXA0587	QXA0587	QXA0587	QXA0587	lock	1		
QXA0588	QXA0588	QXA0588	QXA0588	internal rods for additional lock	1		
QXA0591	QXA0592	QXA0593	QXA0591	cylinder	1		
QXA0577	QXA0578	QXA0579	QXA0577	sash glass spacer	8		
QXA0580	QXA0580	QXA0580	QXA0580	adjusting block	according frame size		

GASKETS

Code				Description	Dimension
QXG0500	QXG0500	QXG0500	QXG0500	external glass gasket	2W+4H
QXG0512	QXG0512	QXG0512	QXG0512	internal glass gasket (according	2W+4H
QXB0502	QXB0502	QXB0502	QXB0502	extruded door brush	2W
QXB0503	QXB0503	QXB0503	QXB0503	brush for swing door	4H

GLASS

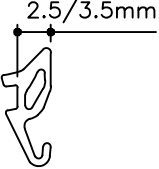
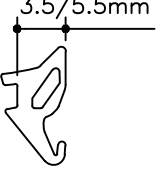
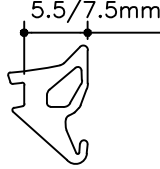
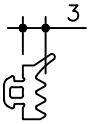
			GLASS	pieces 2	(W - 402) / 2 x H-246
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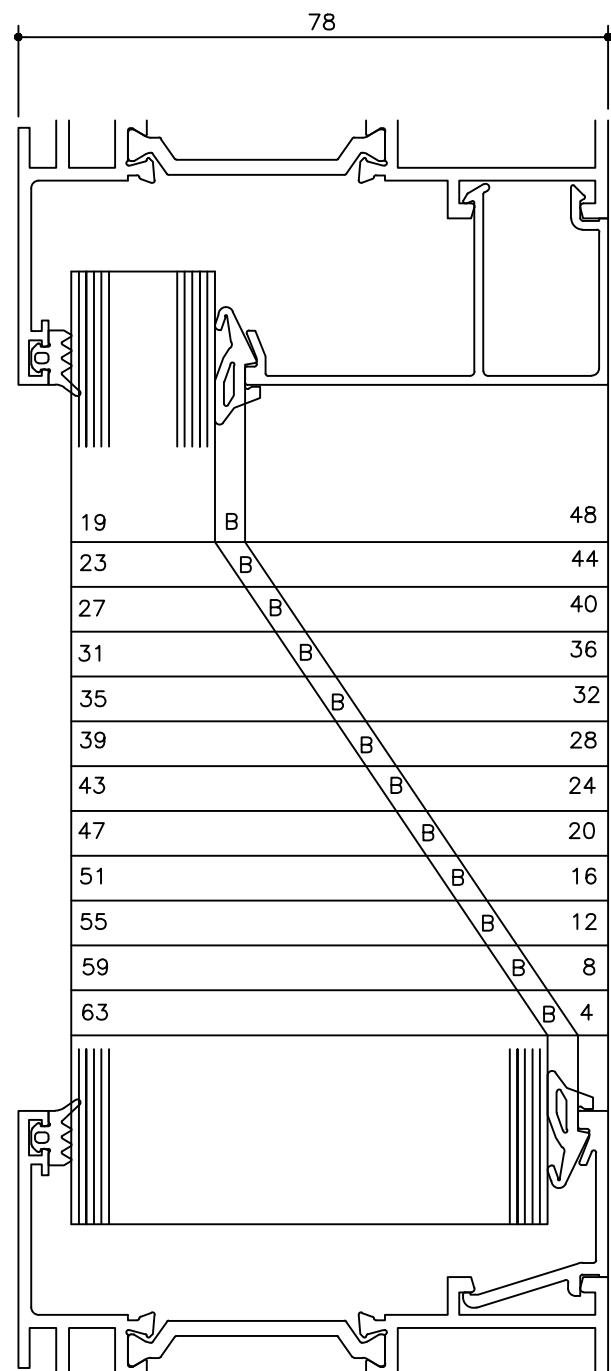
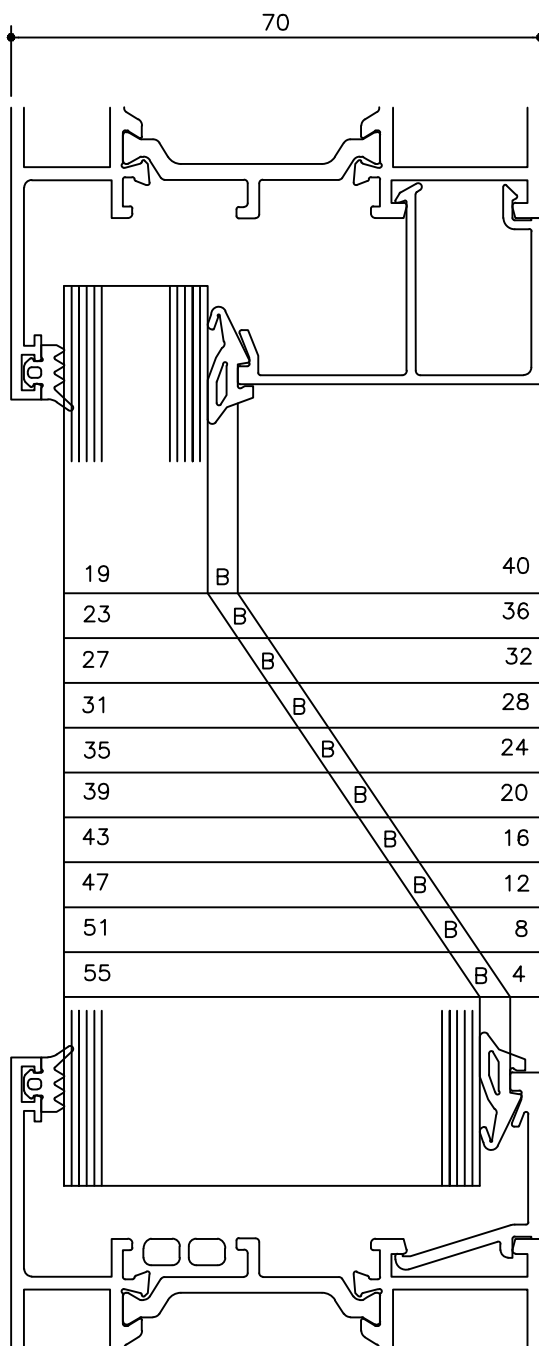


SECTOR M.13



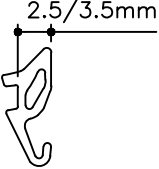
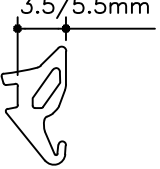
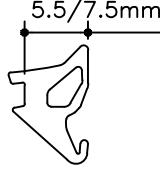
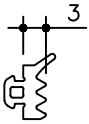
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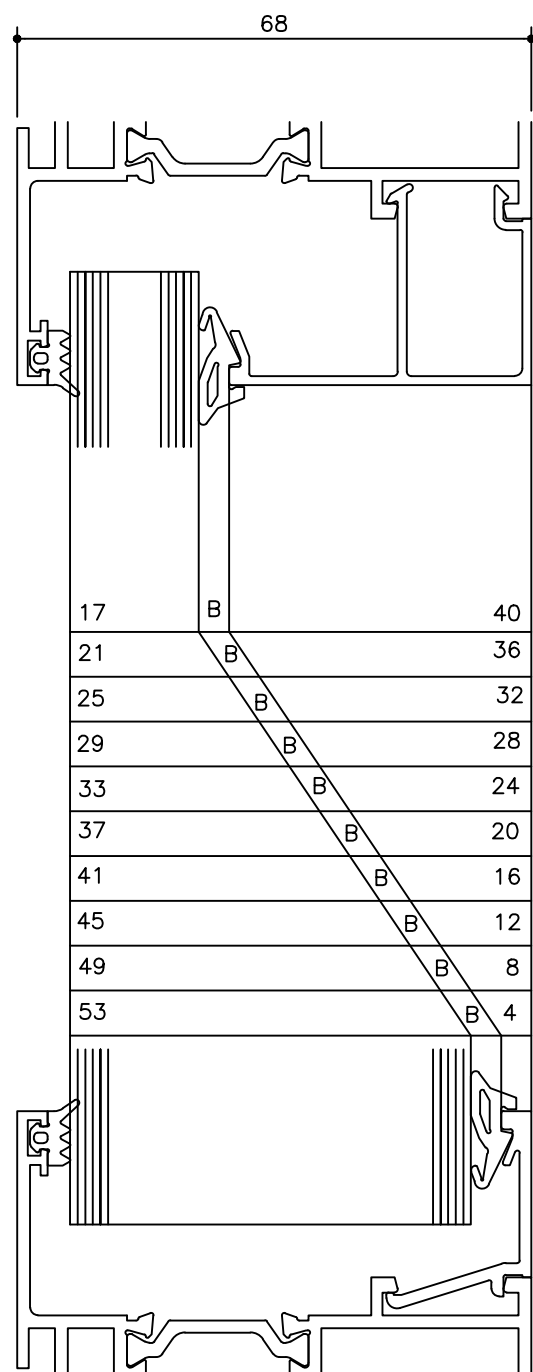
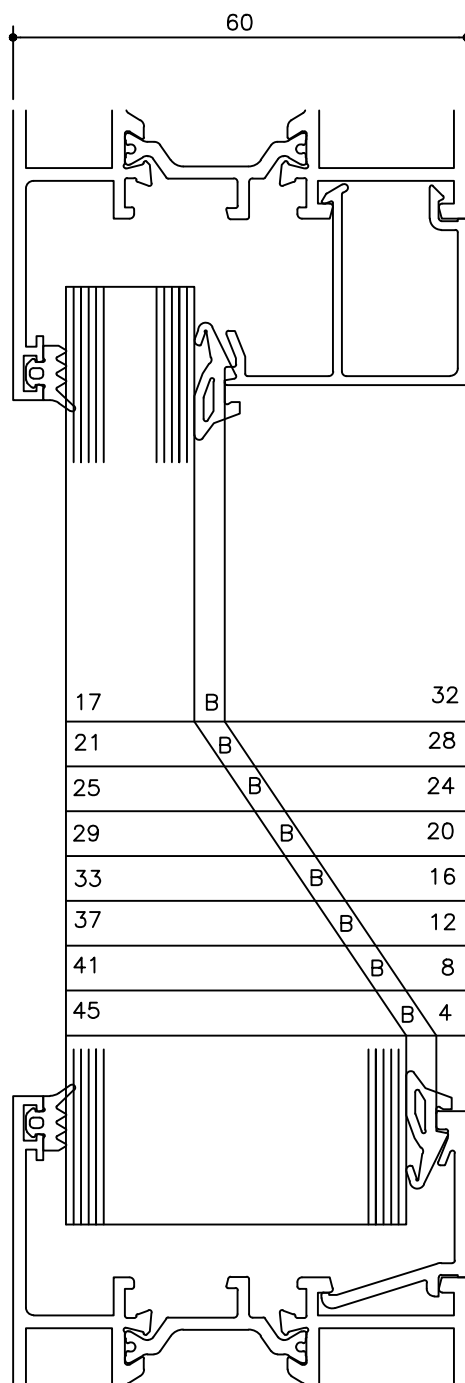
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A 	B 	C 	EXTERNAL GASKET 





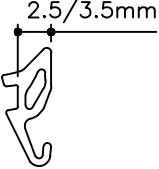
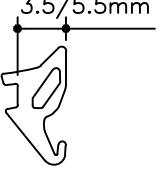
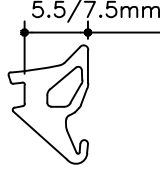
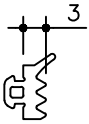
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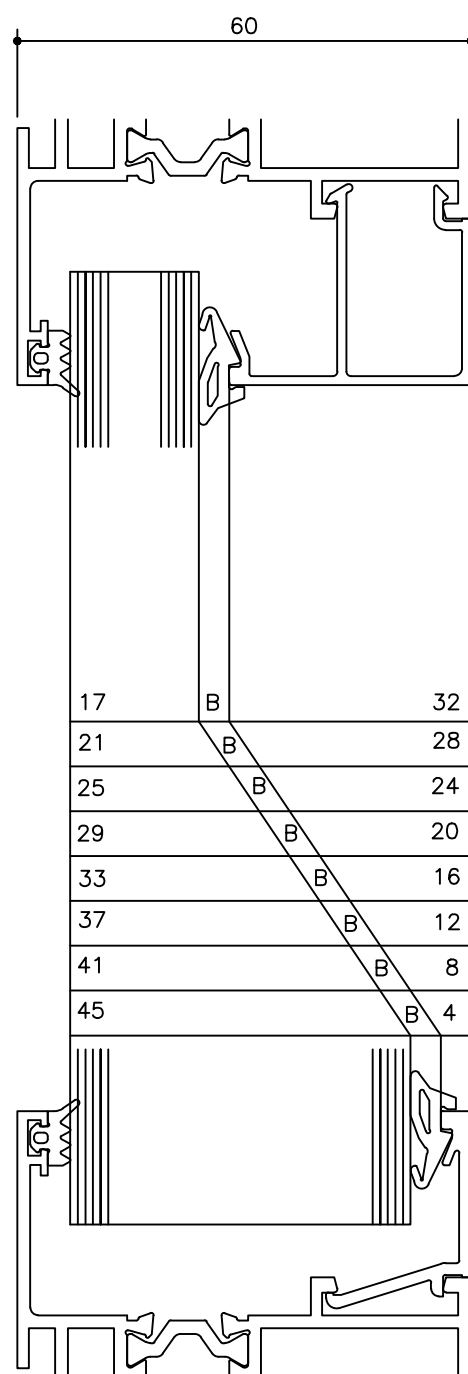
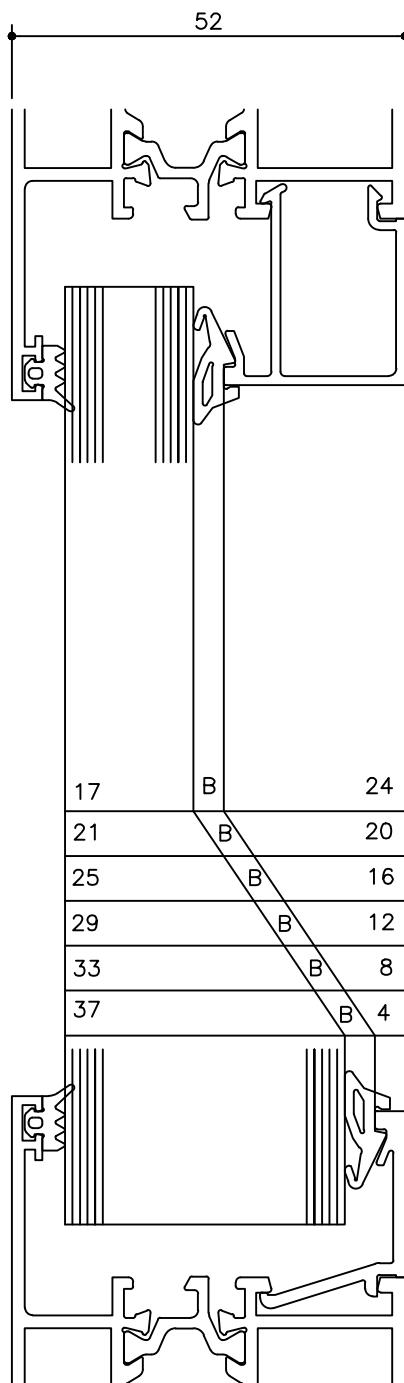
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A 	B 	C 	EXTERNAL GASKET 





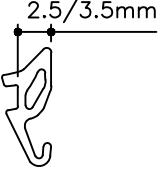
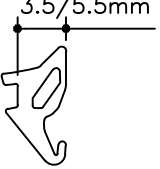
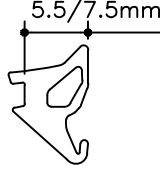
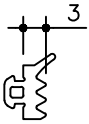
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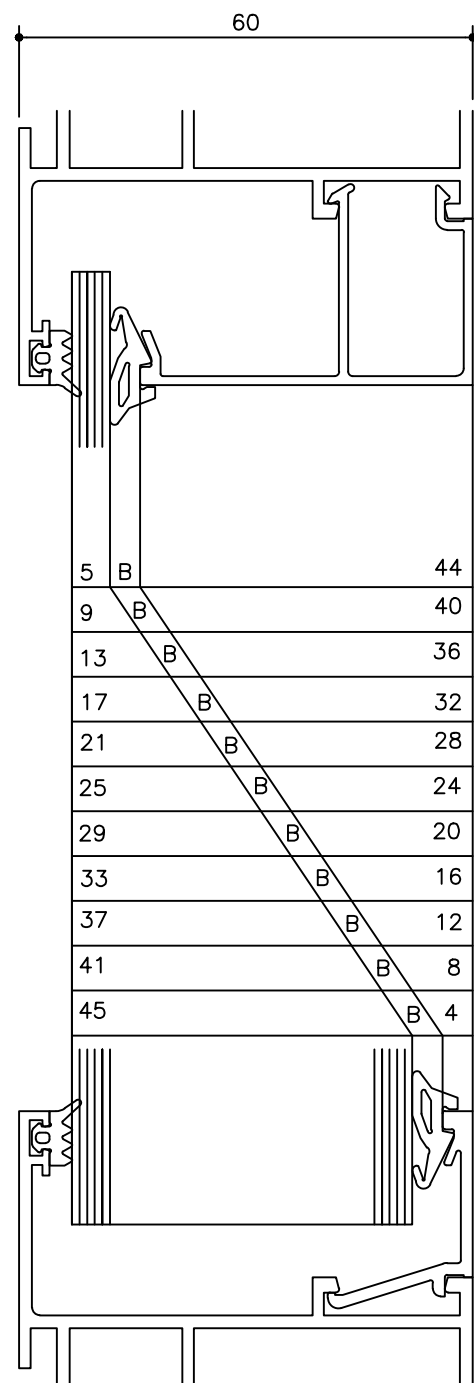
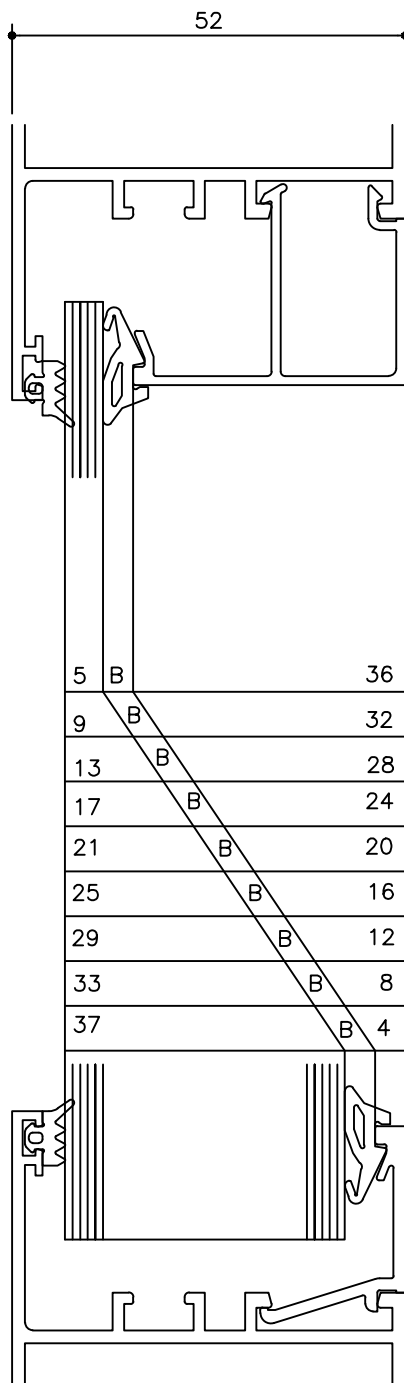
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A 	B 	C 	EXTERNAL GASKET 



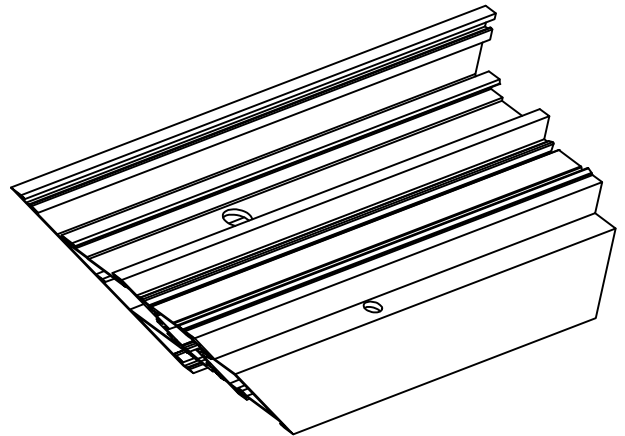
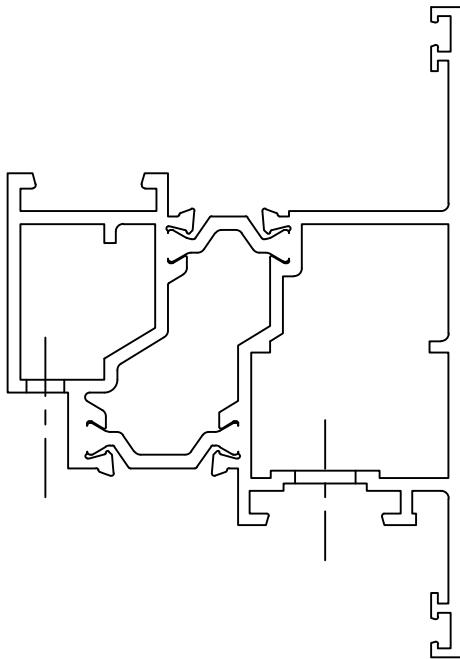
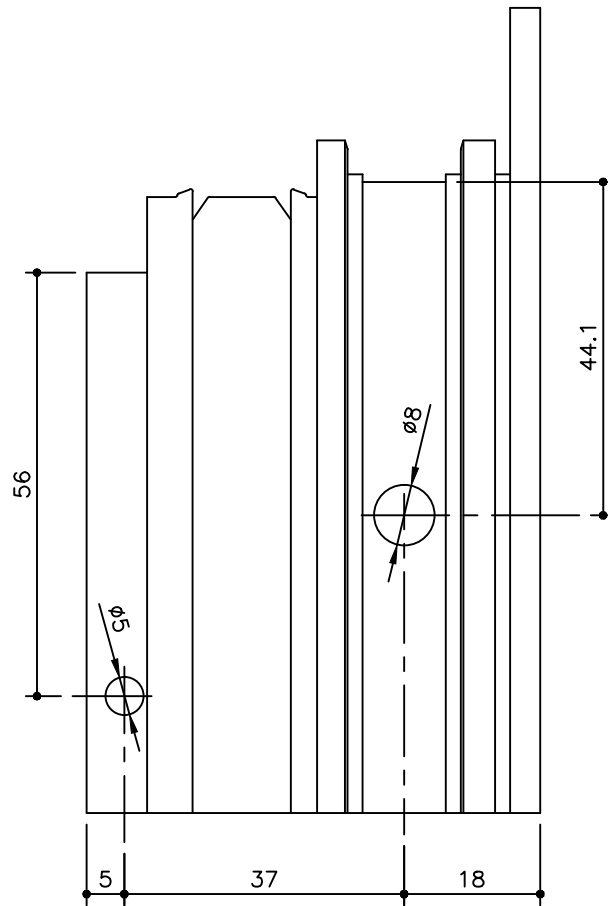


BEAR.C GLAZING CHART

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A 	B 	C 	EXTERNAL GASKET 

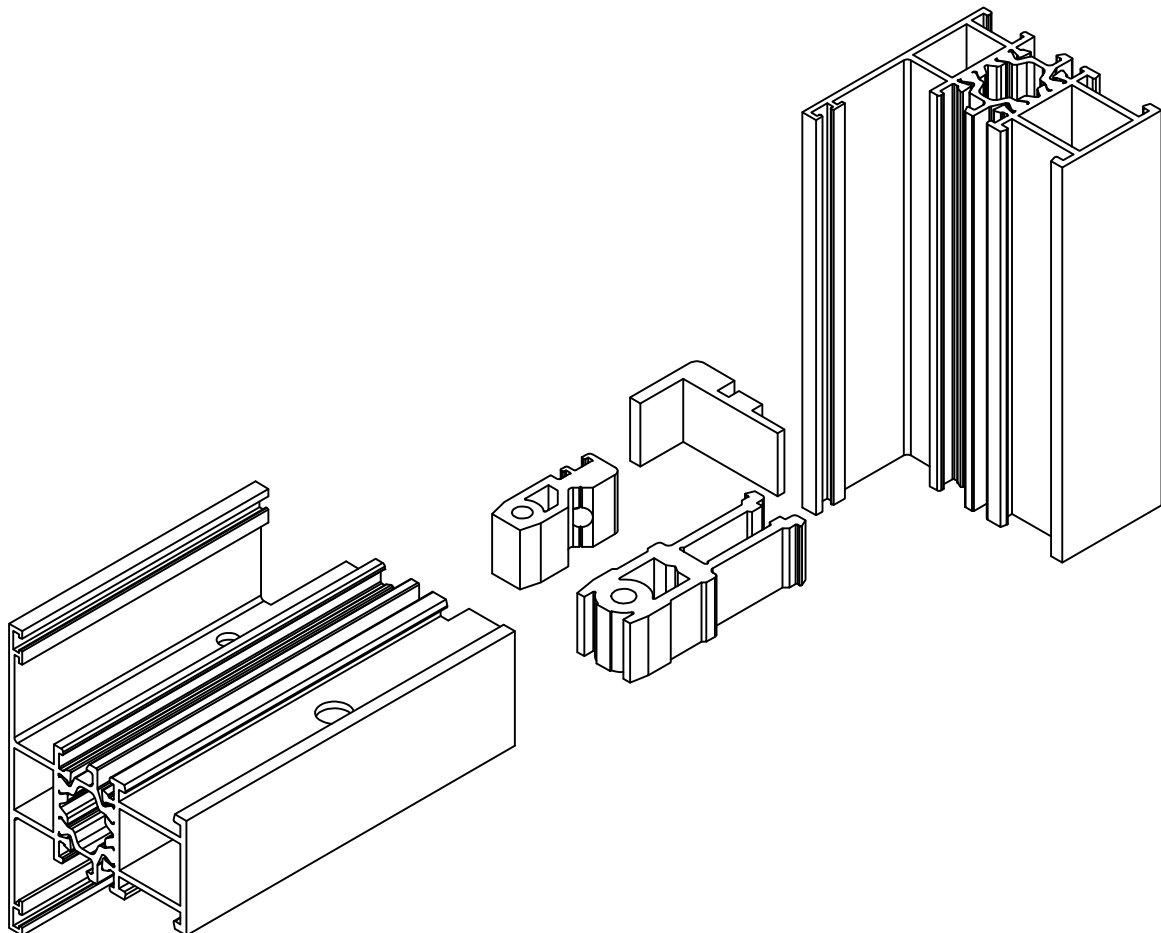
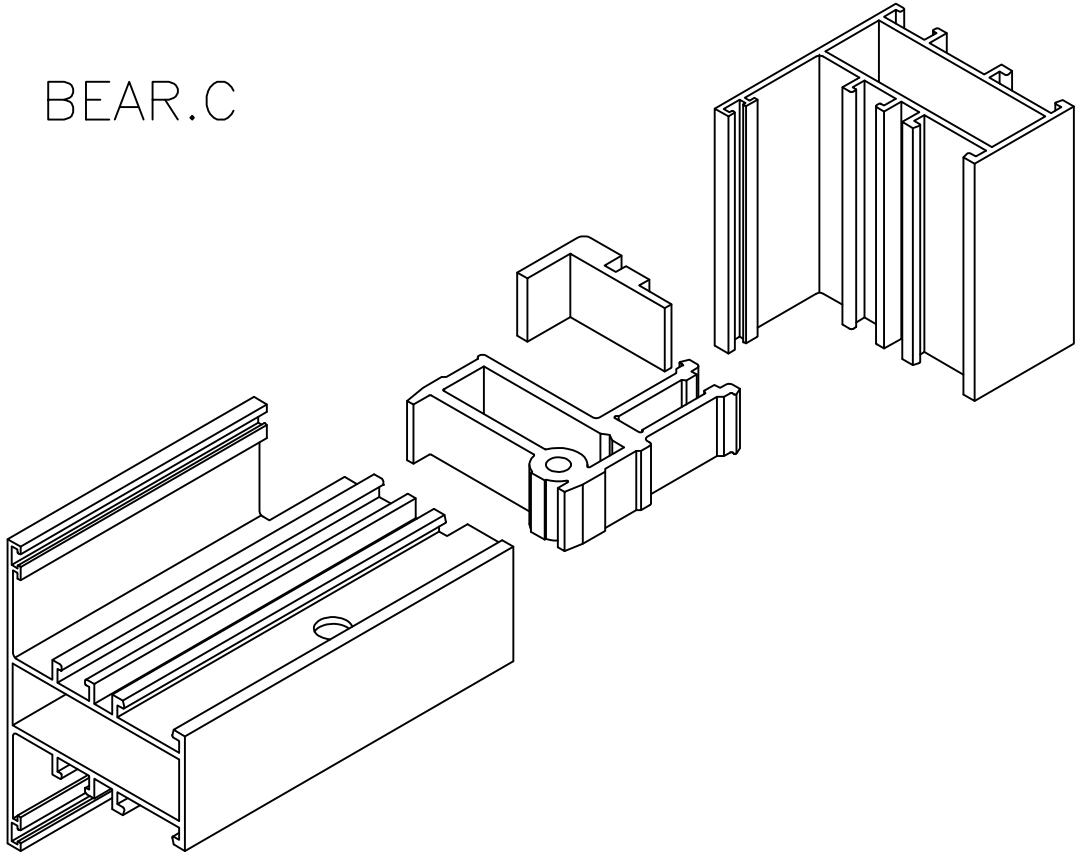


Sector N Machining

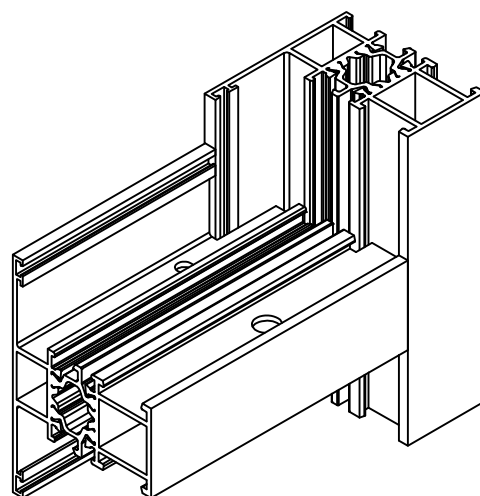


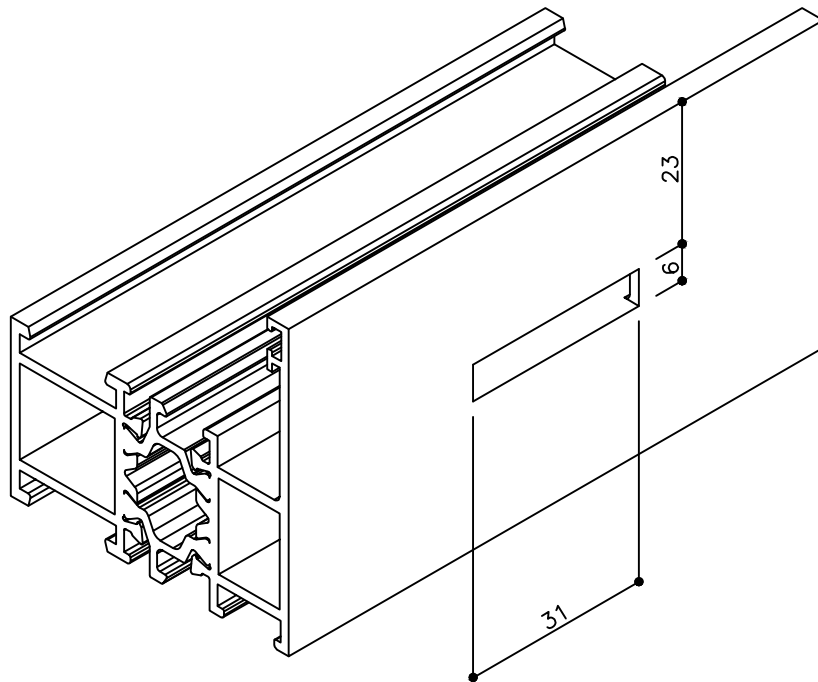
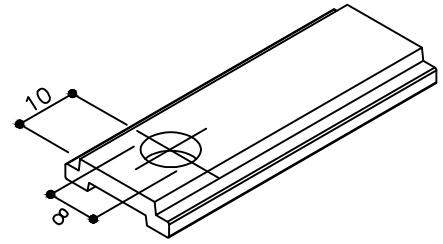
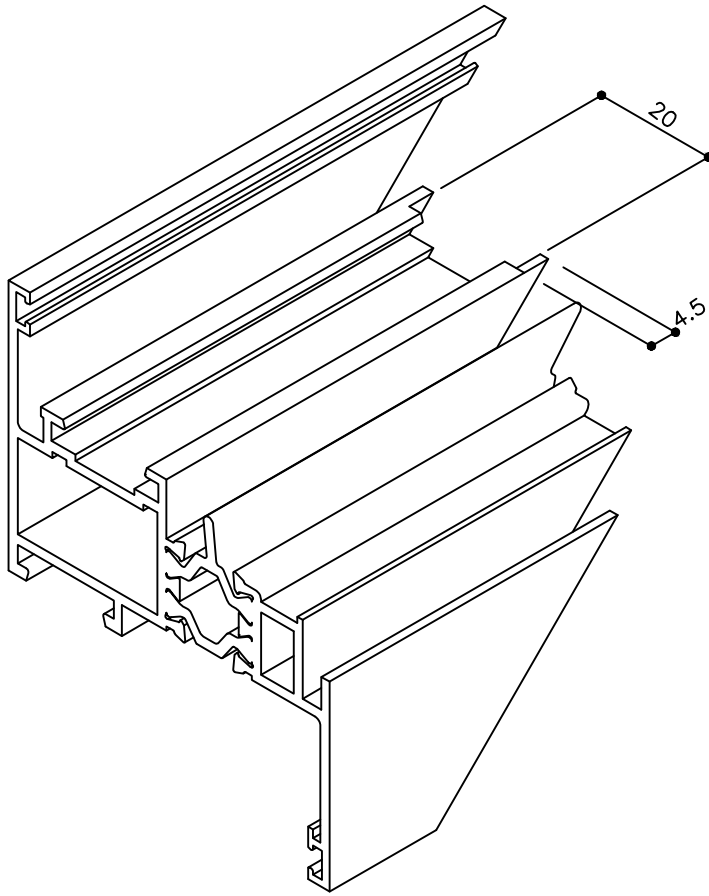


BEAR.C



SECTOR N.2



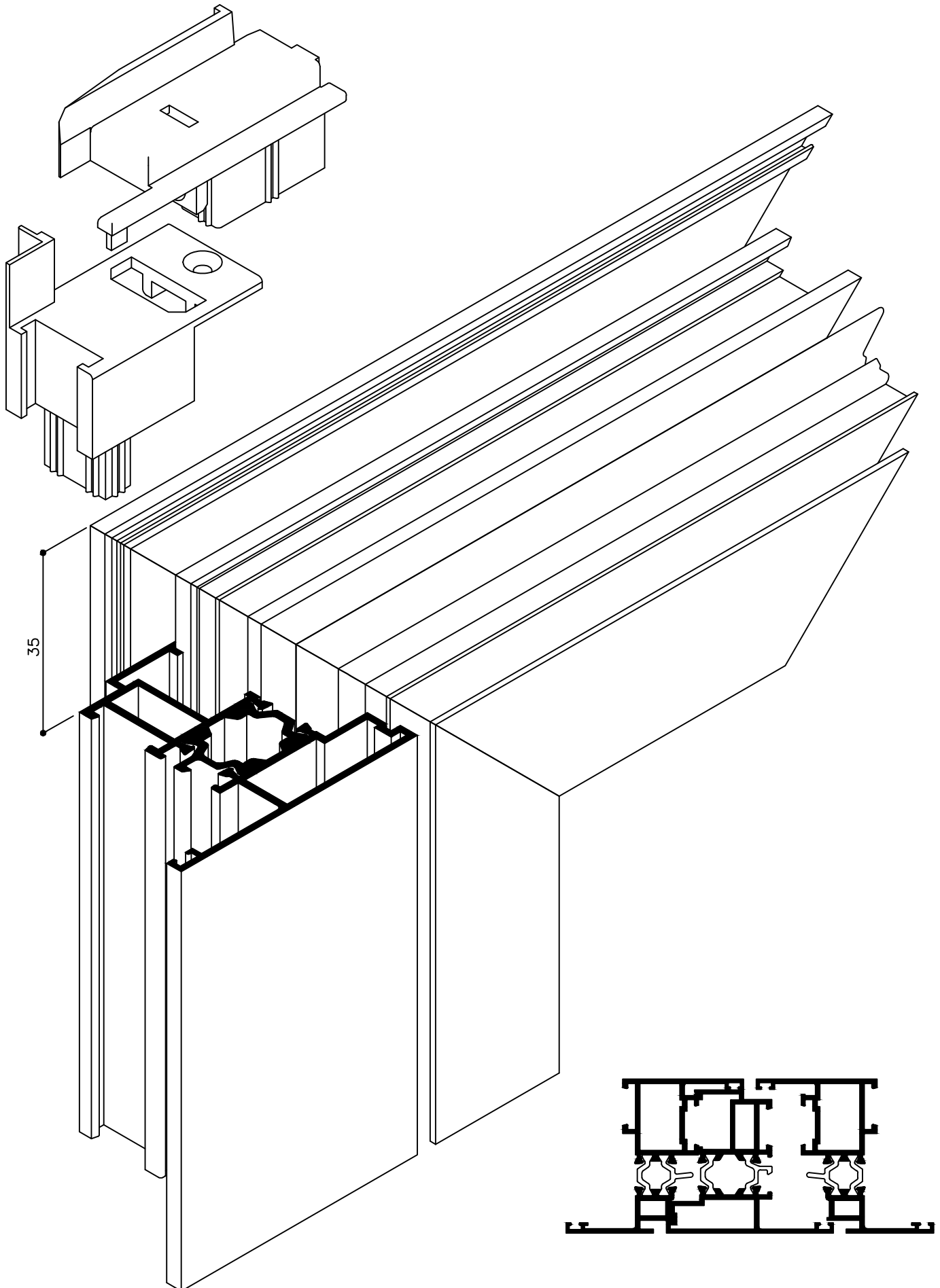




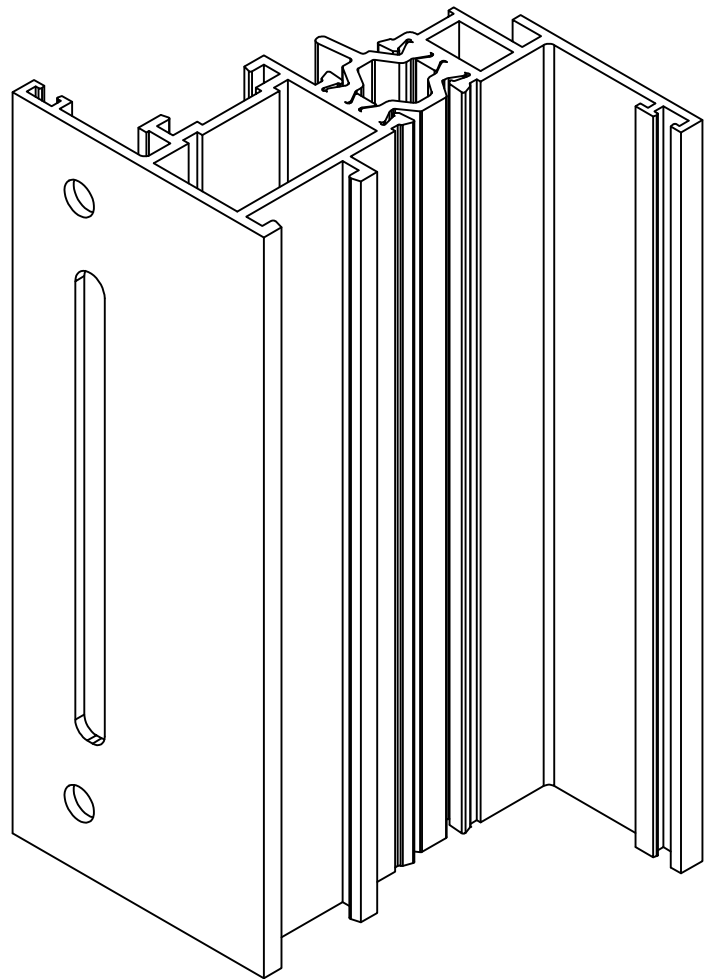
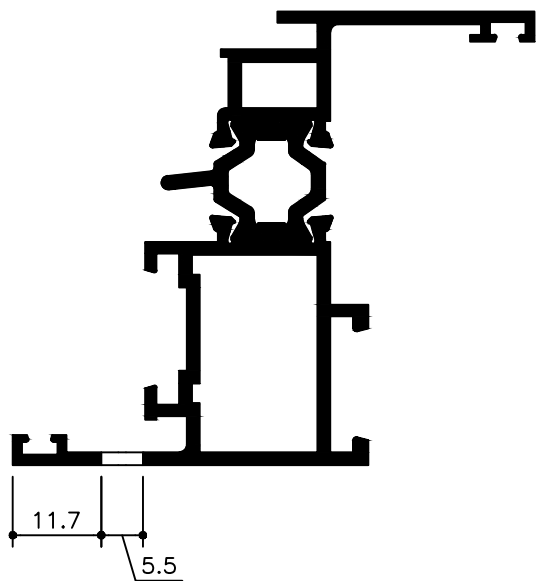
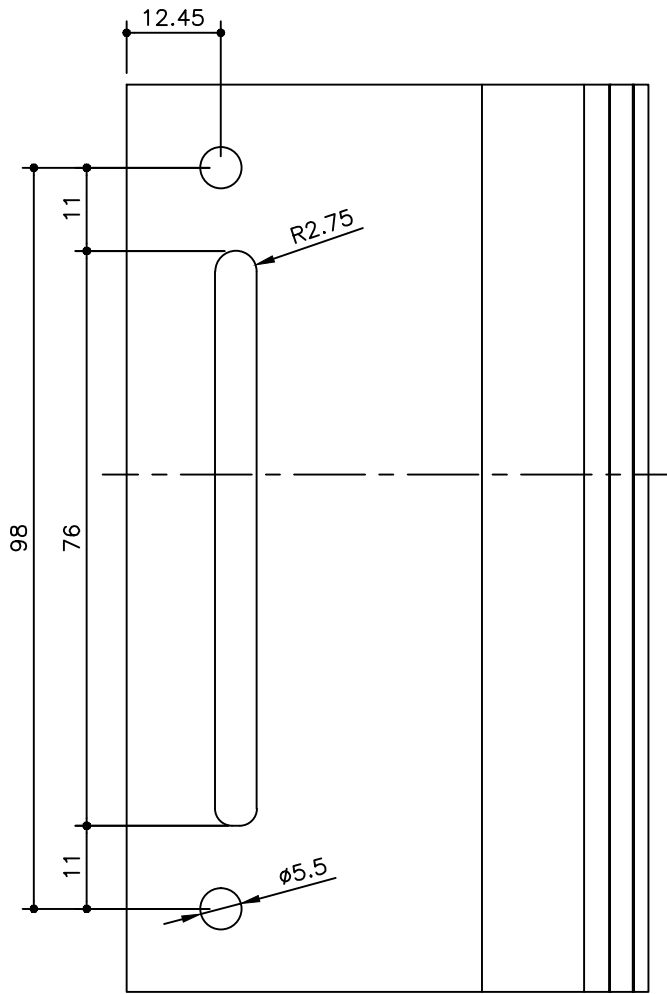
GALEX
الشركة القطرية لسحب الألمنيوم
QATAR ALUMINIUM EXTRUSION CO.

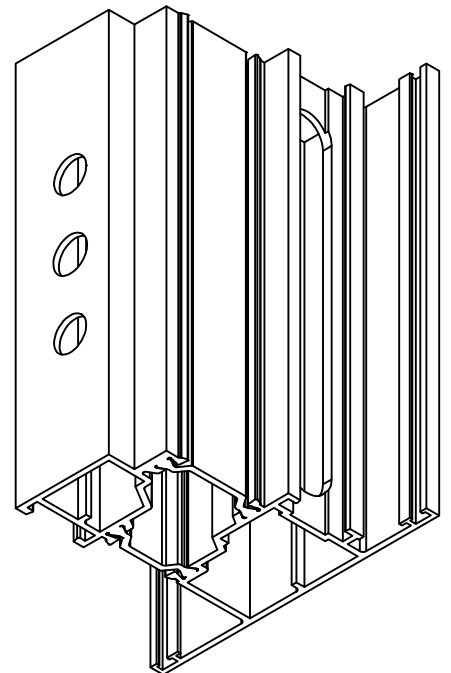
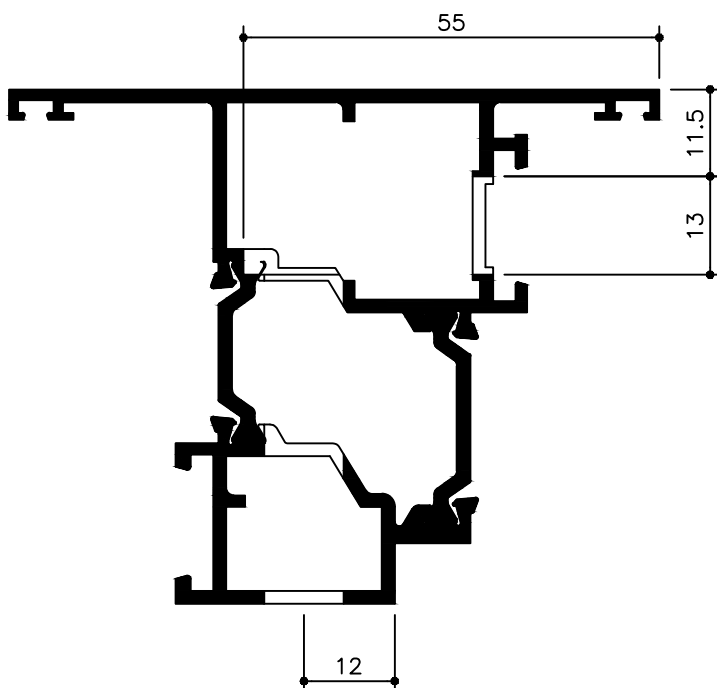
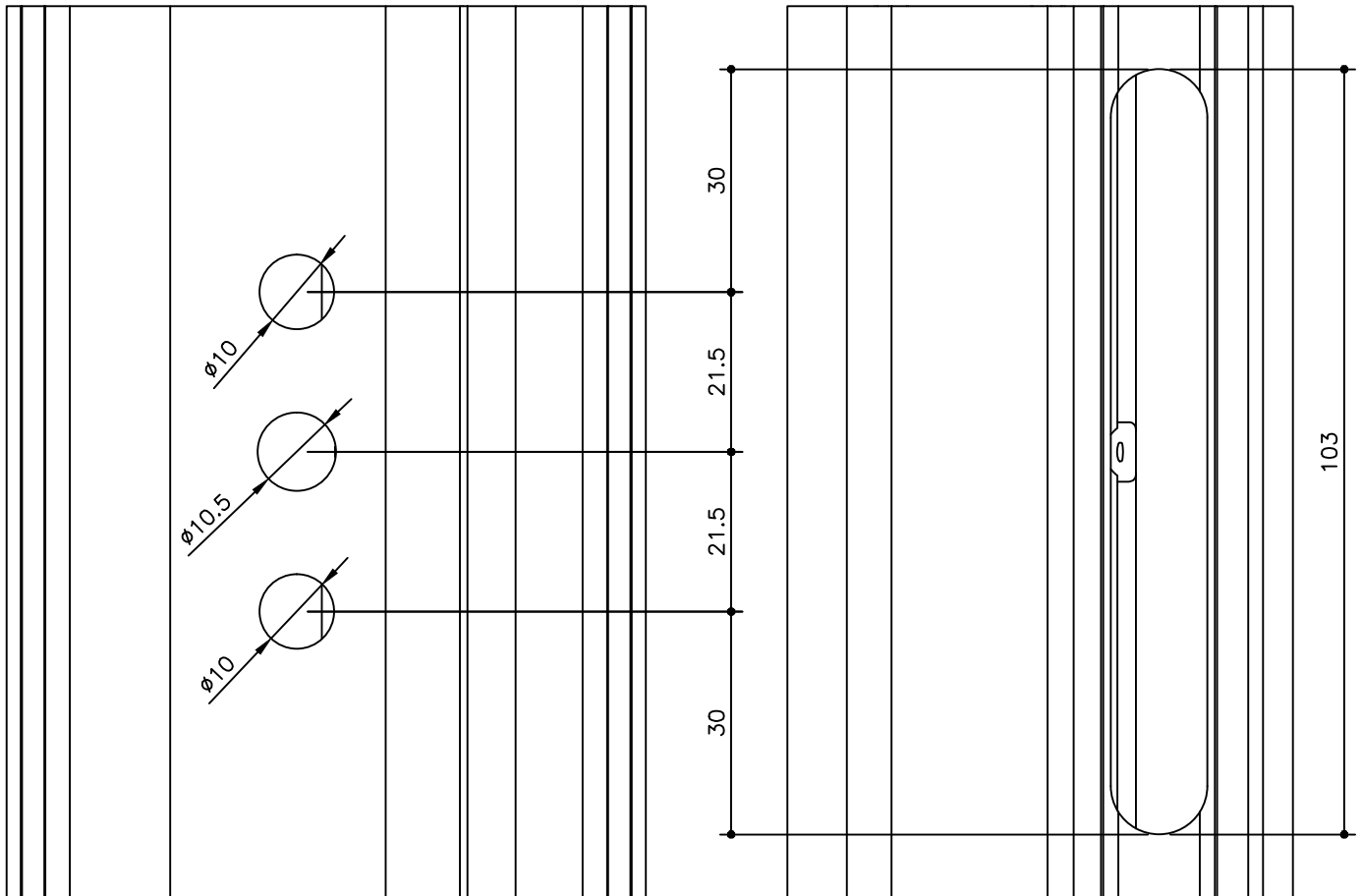


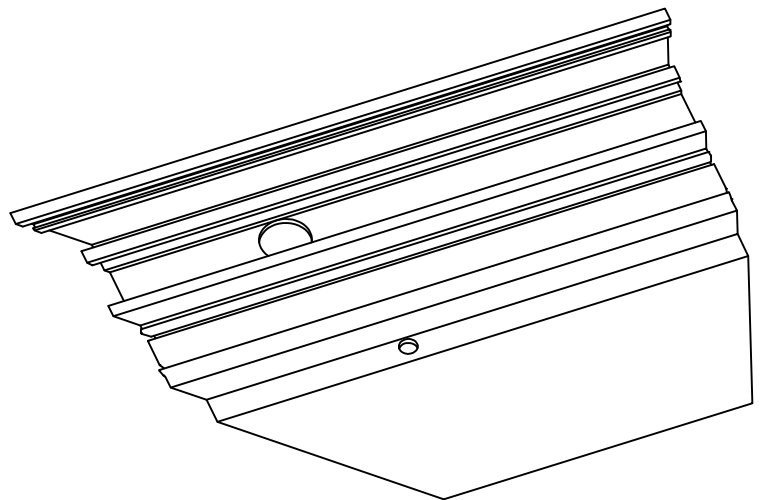
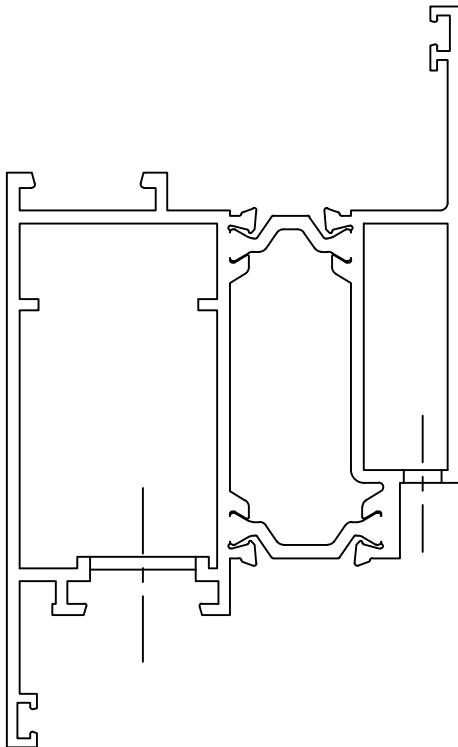
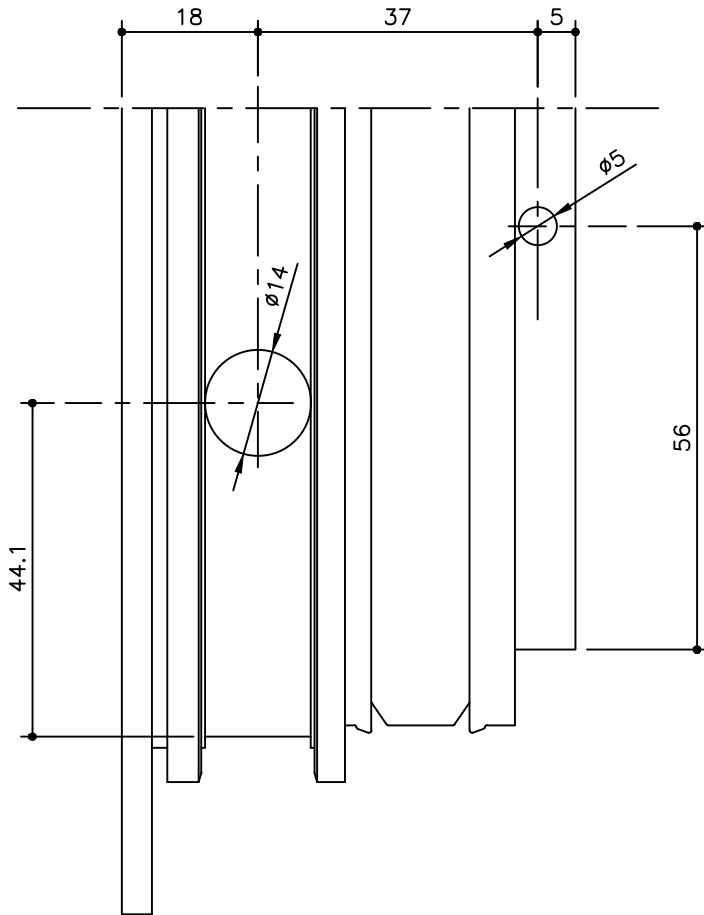
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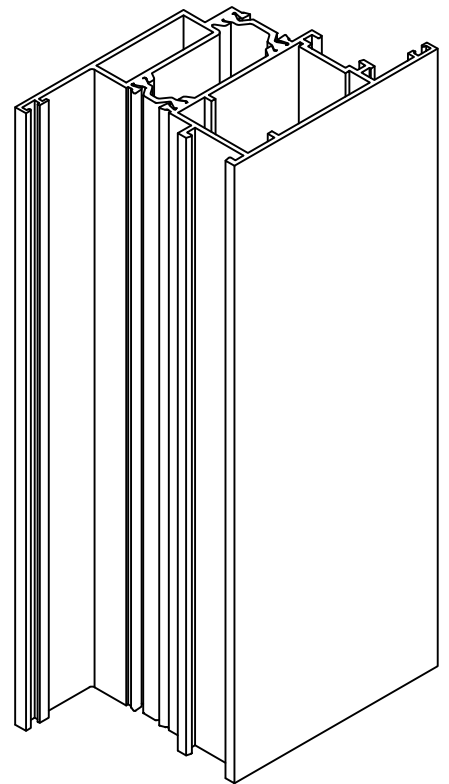
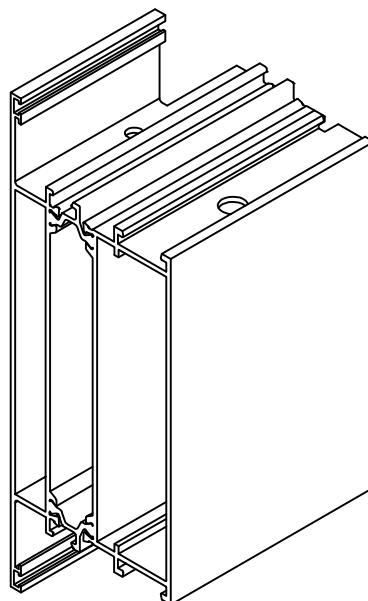
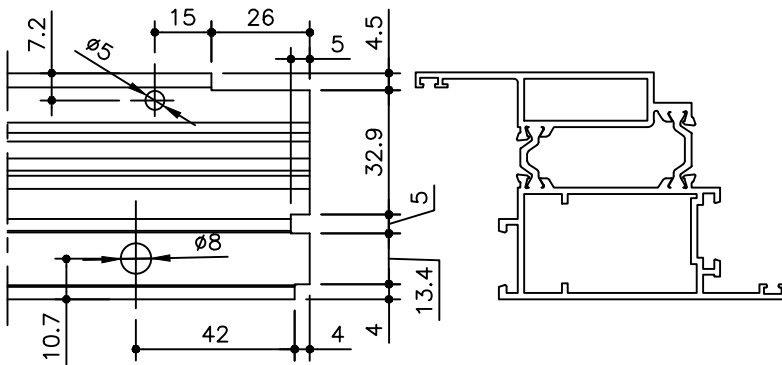
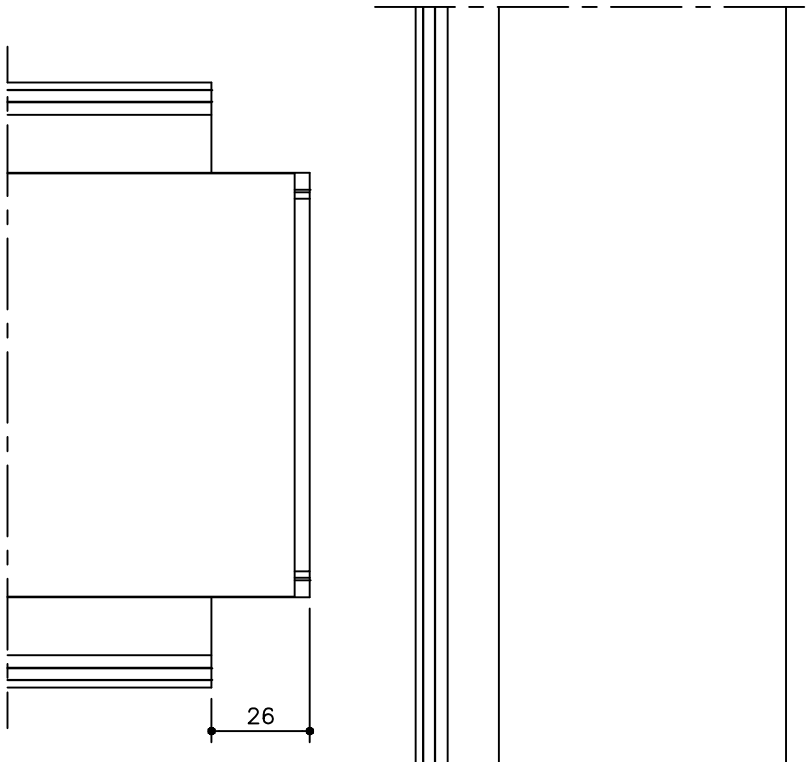


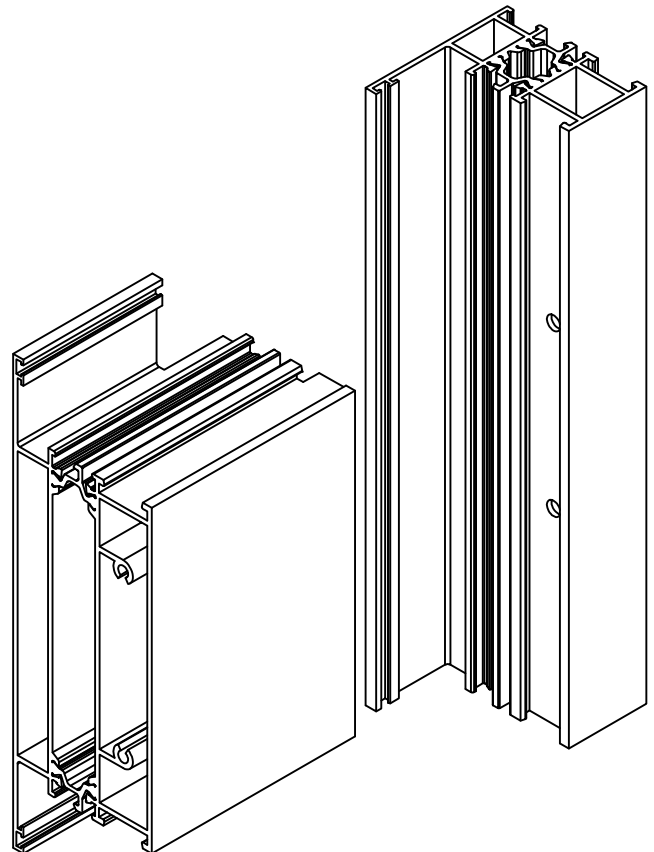
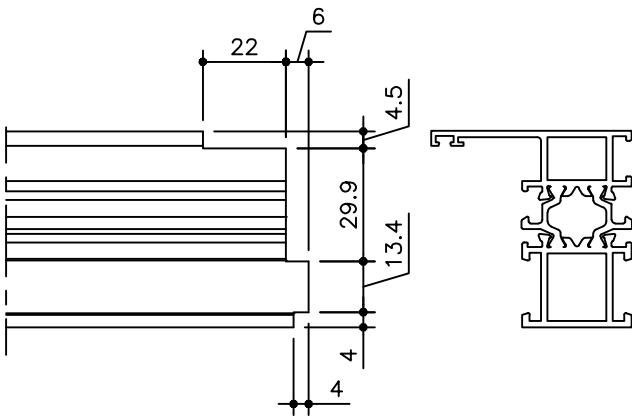
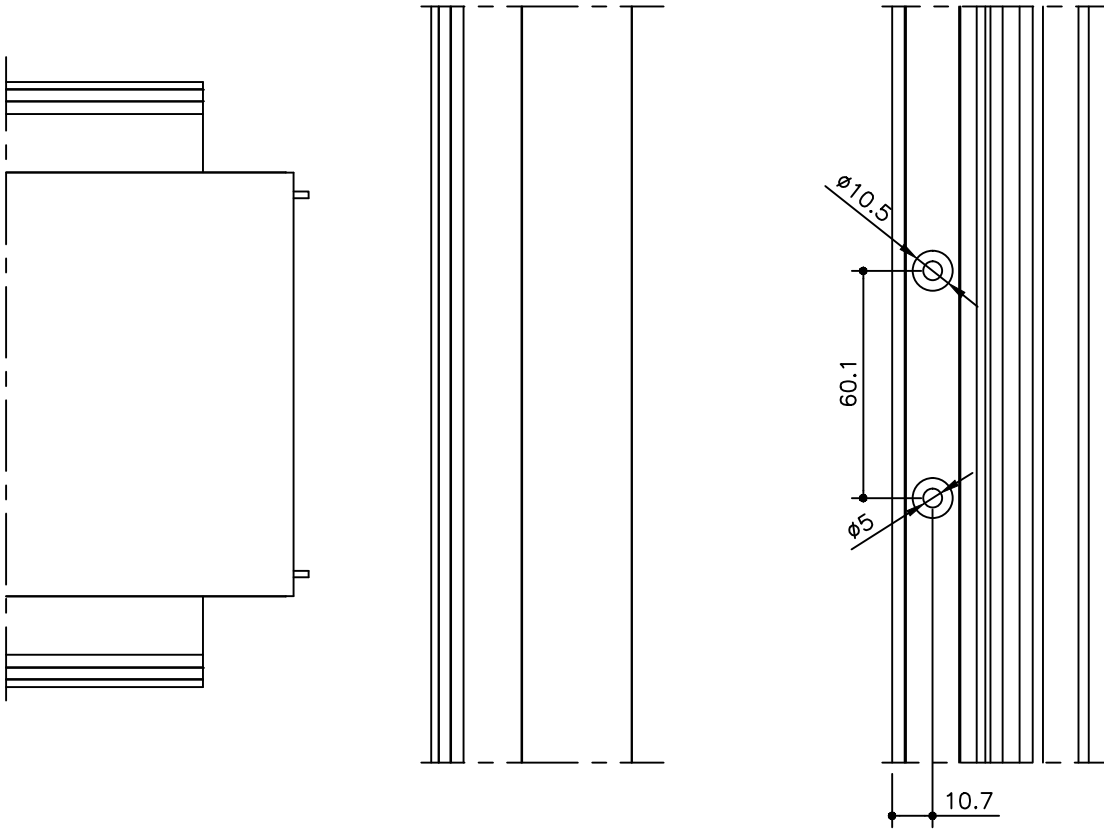
SECTOR N.5

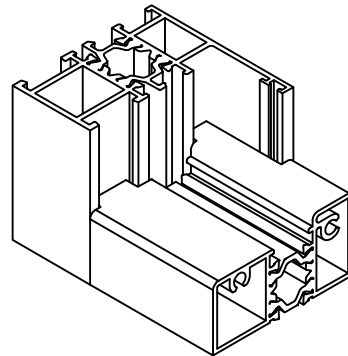
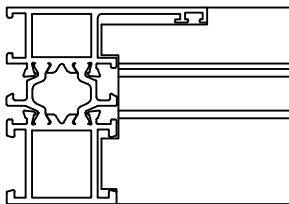
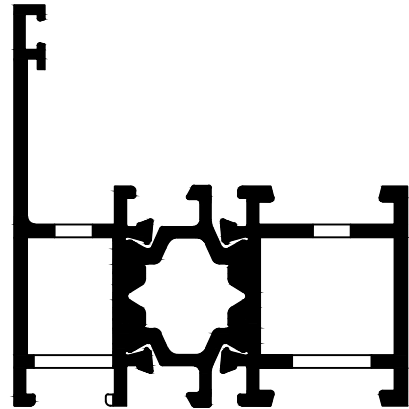
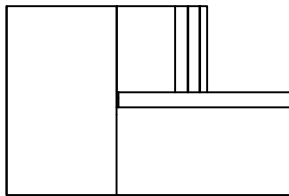
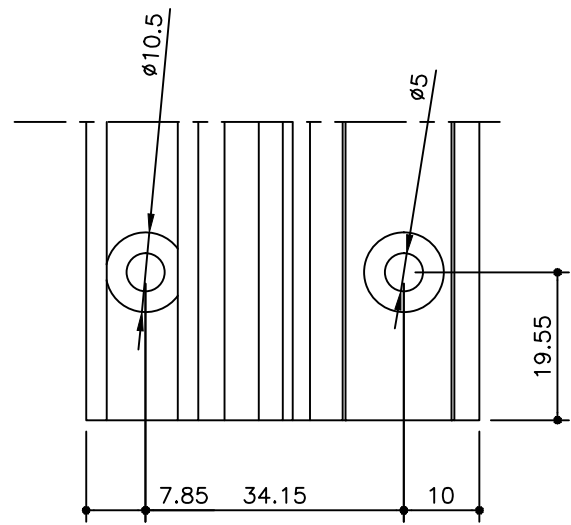
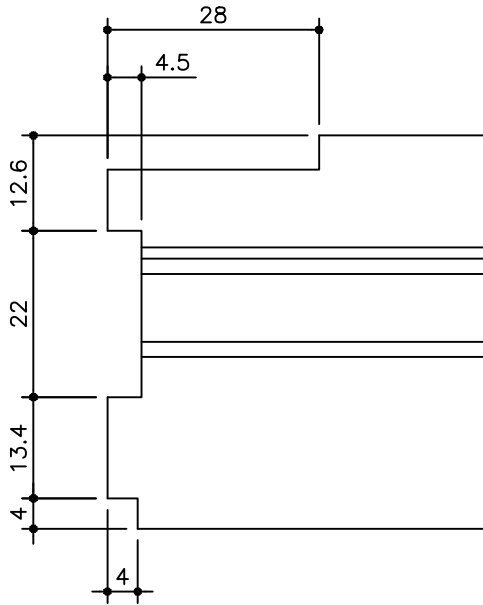


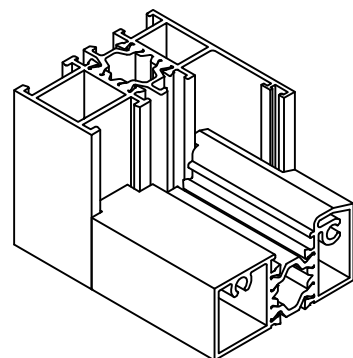
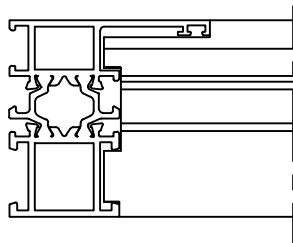
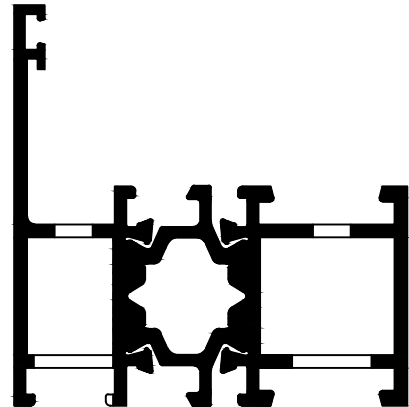
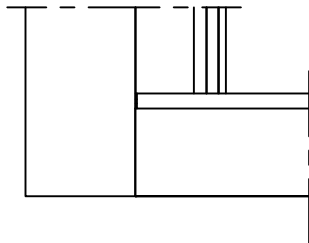
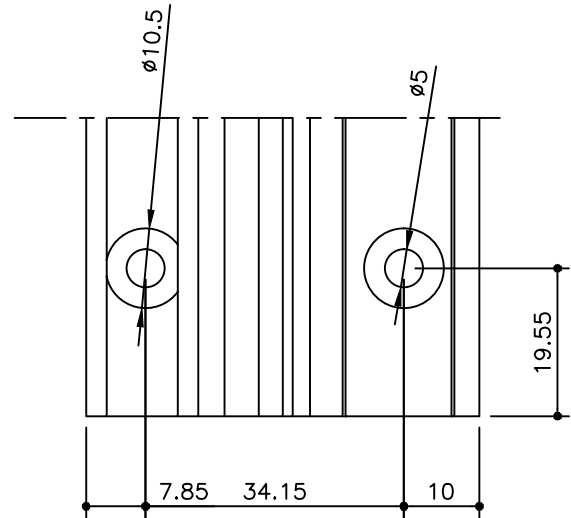
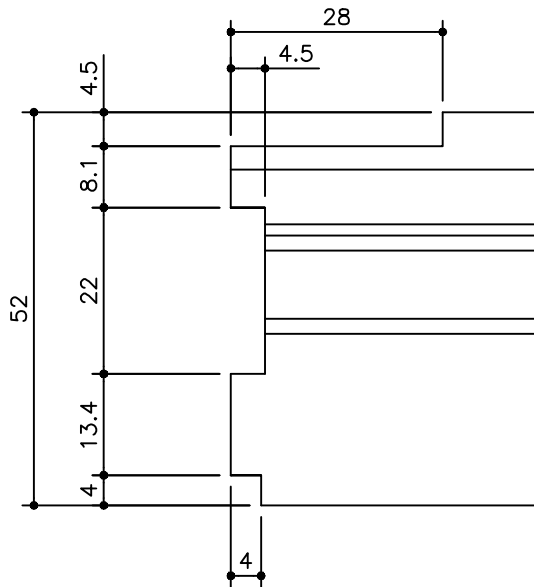










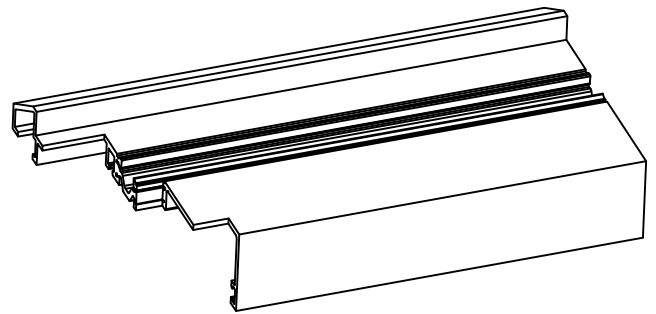
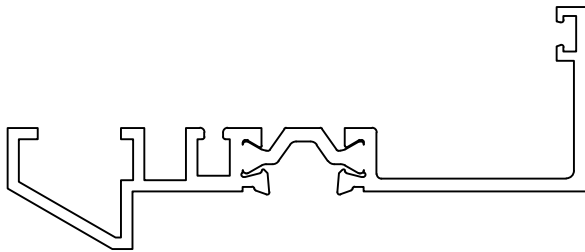
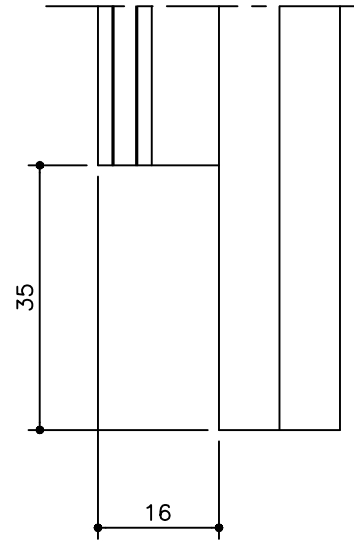
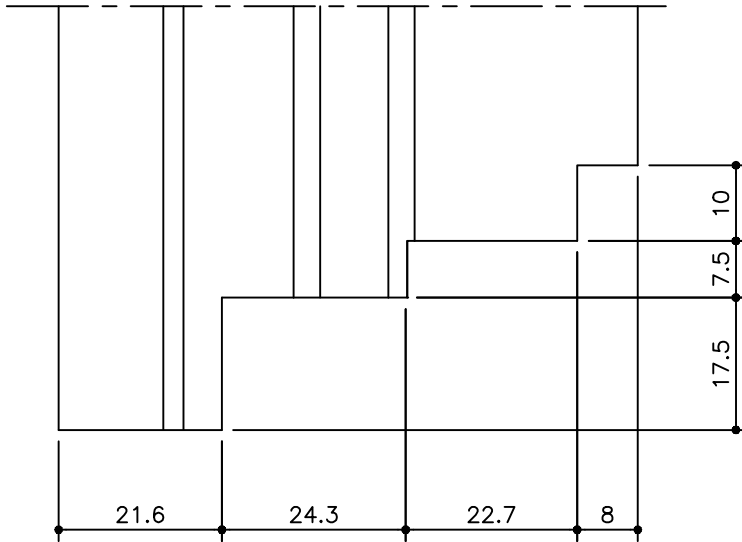


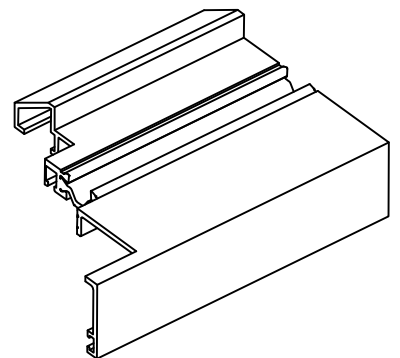
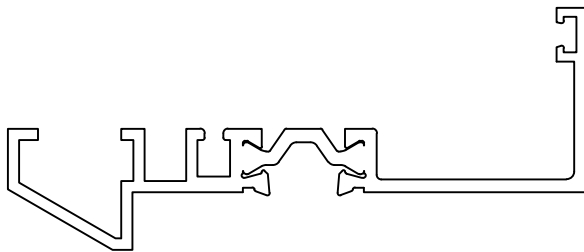
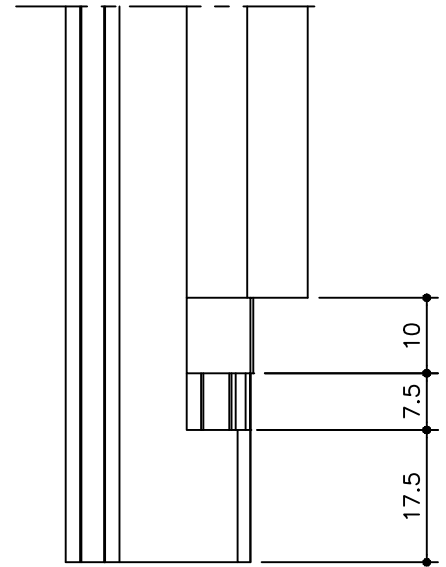
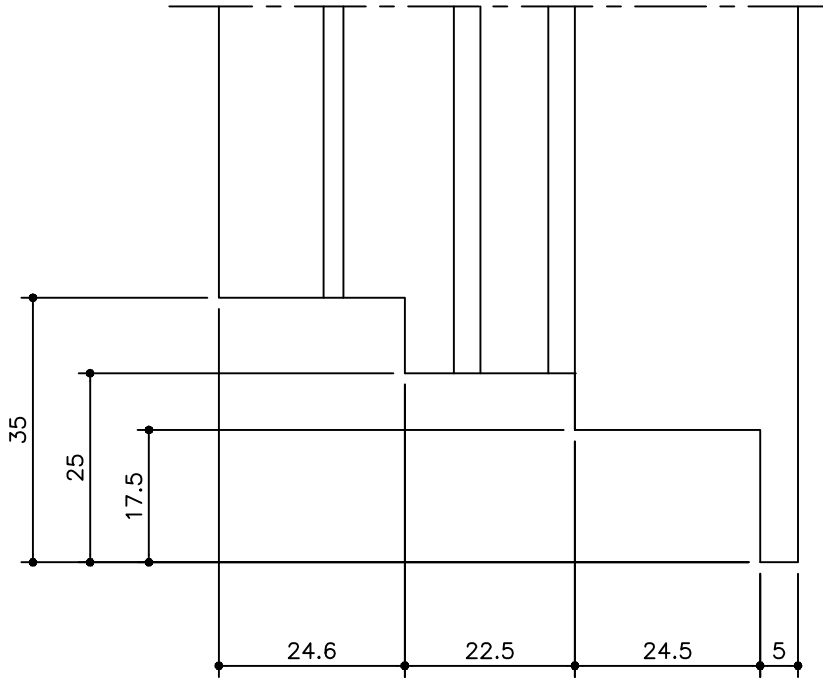


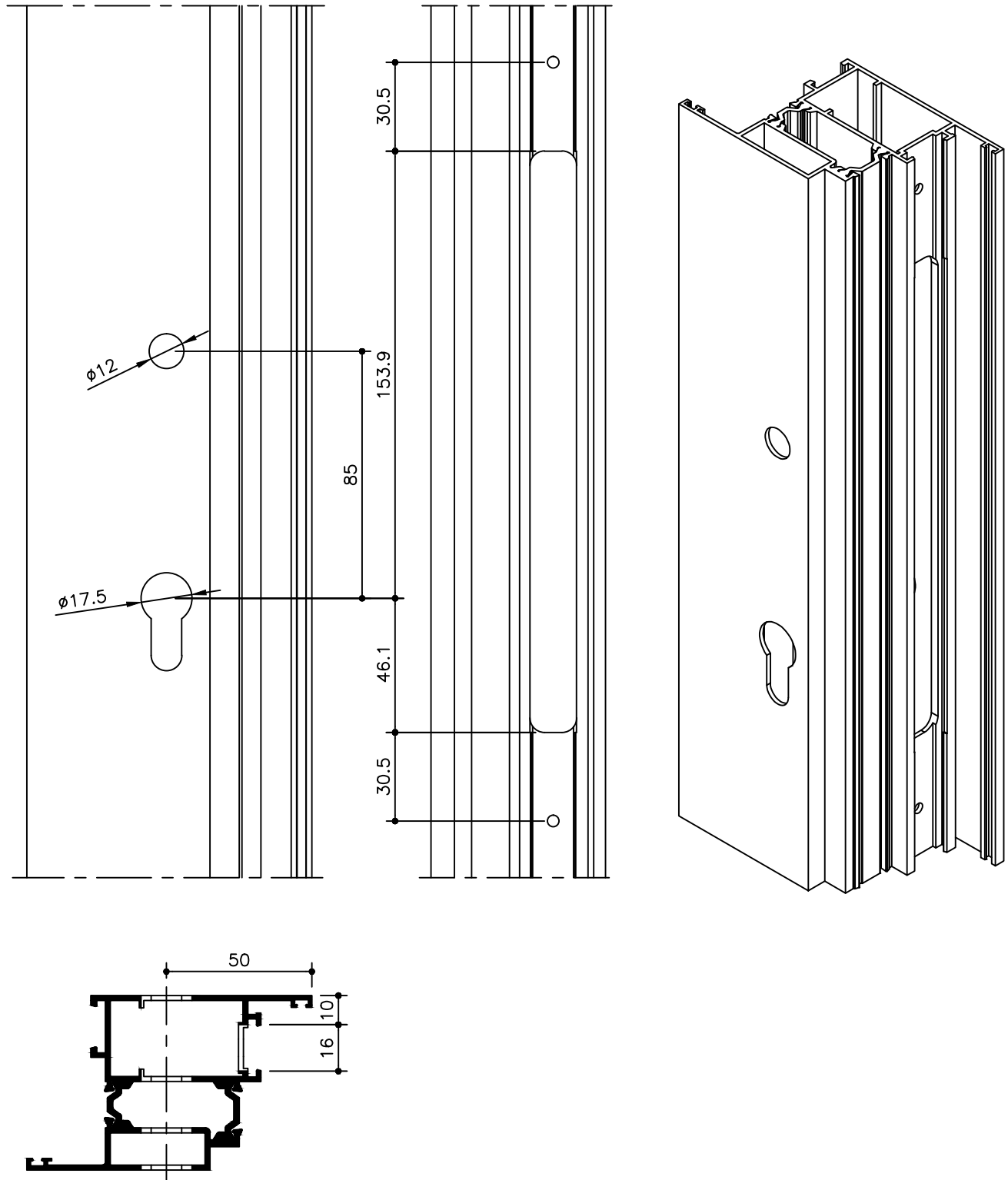
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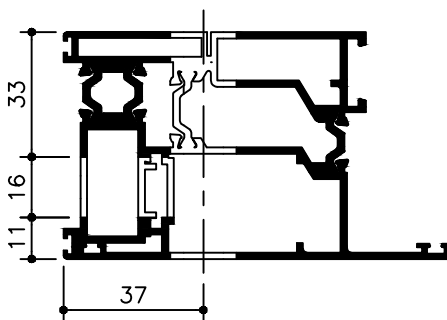
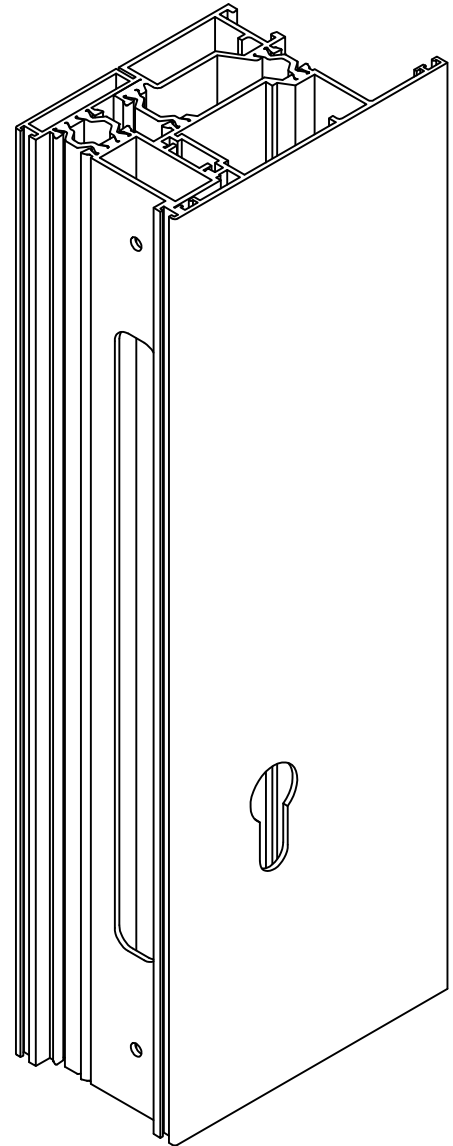
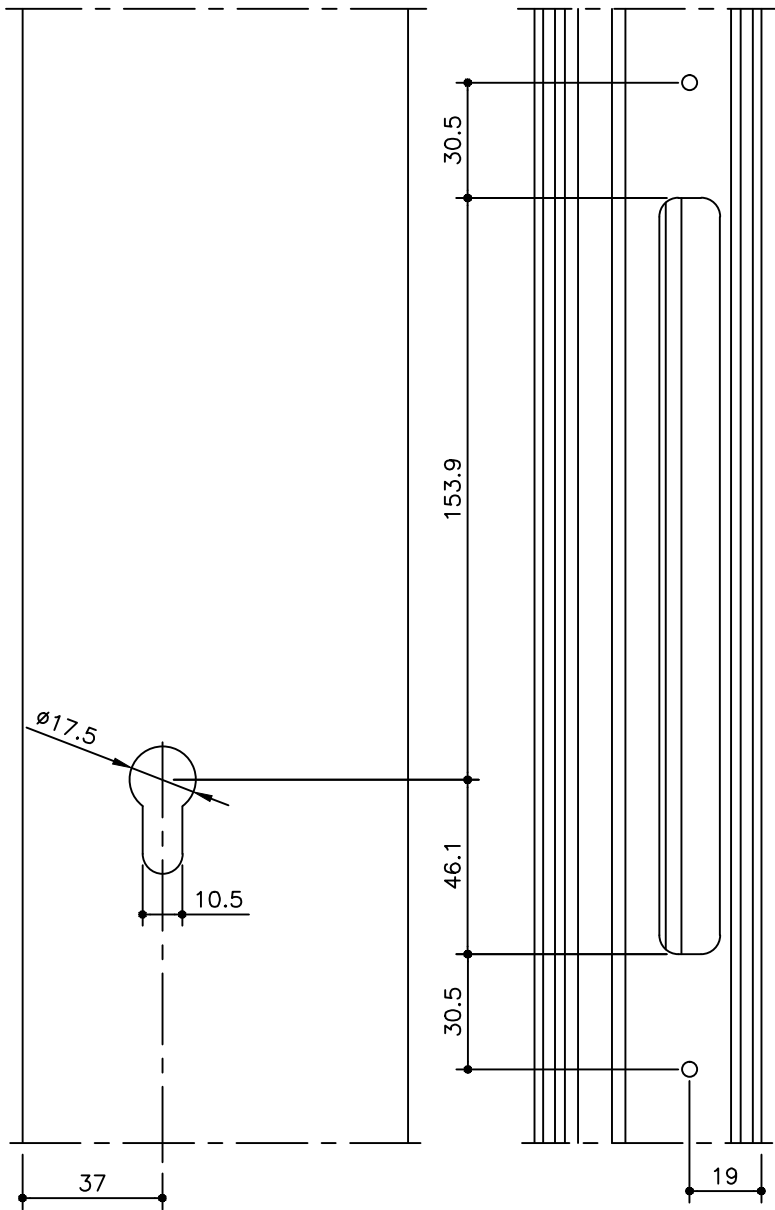


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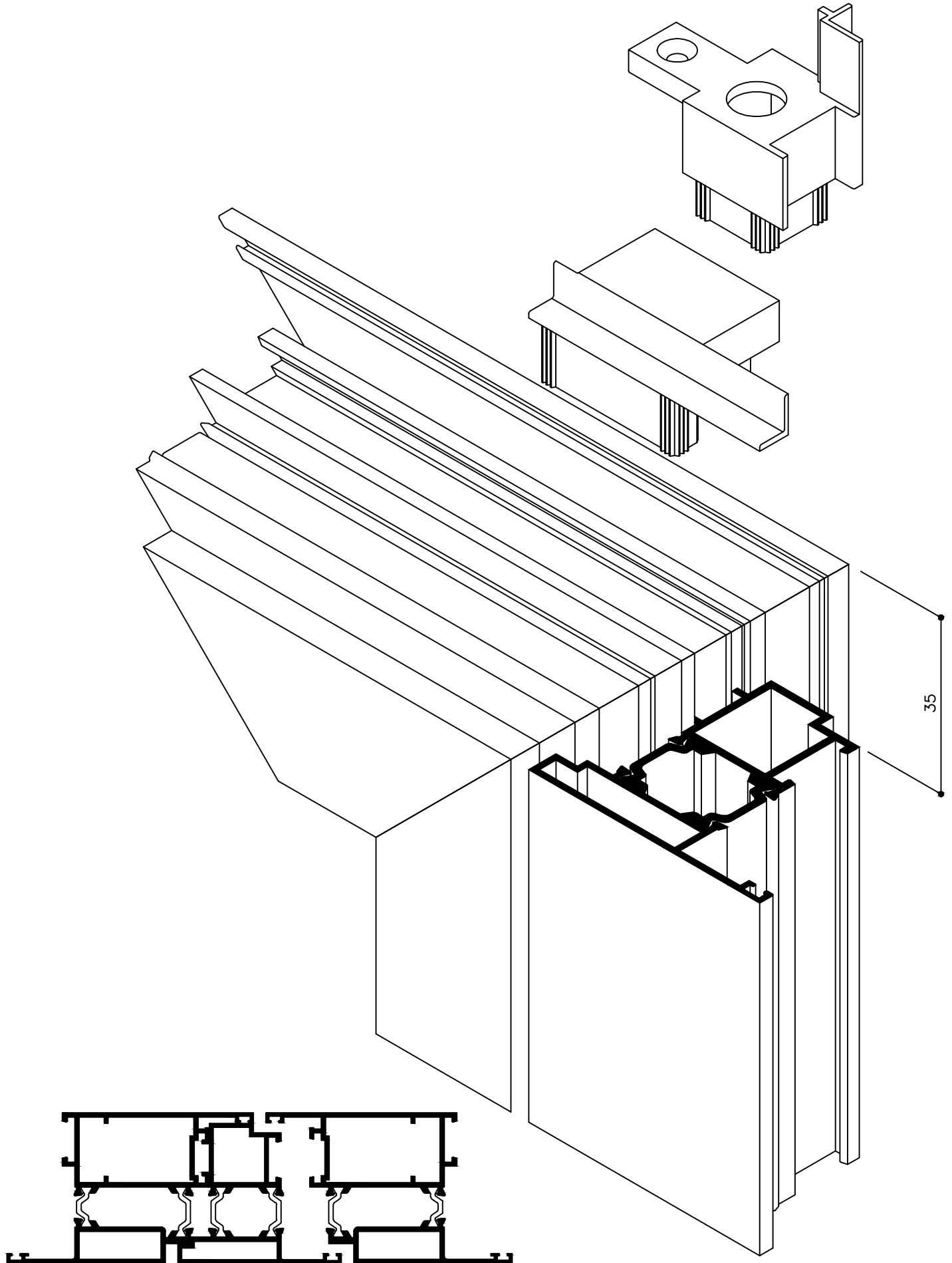




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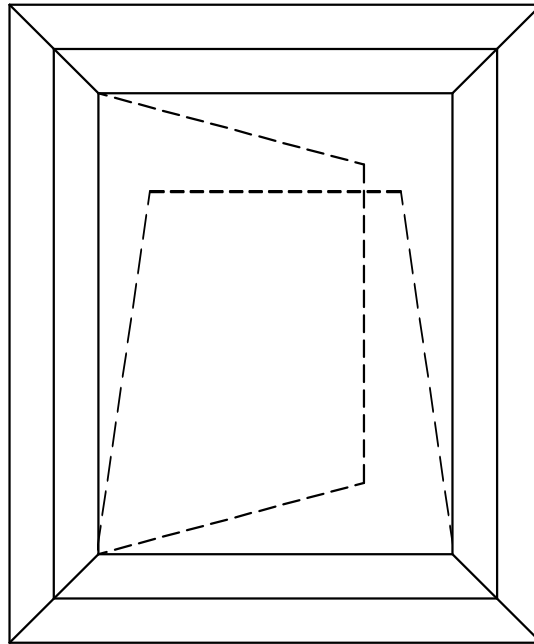


SECTOR N.17



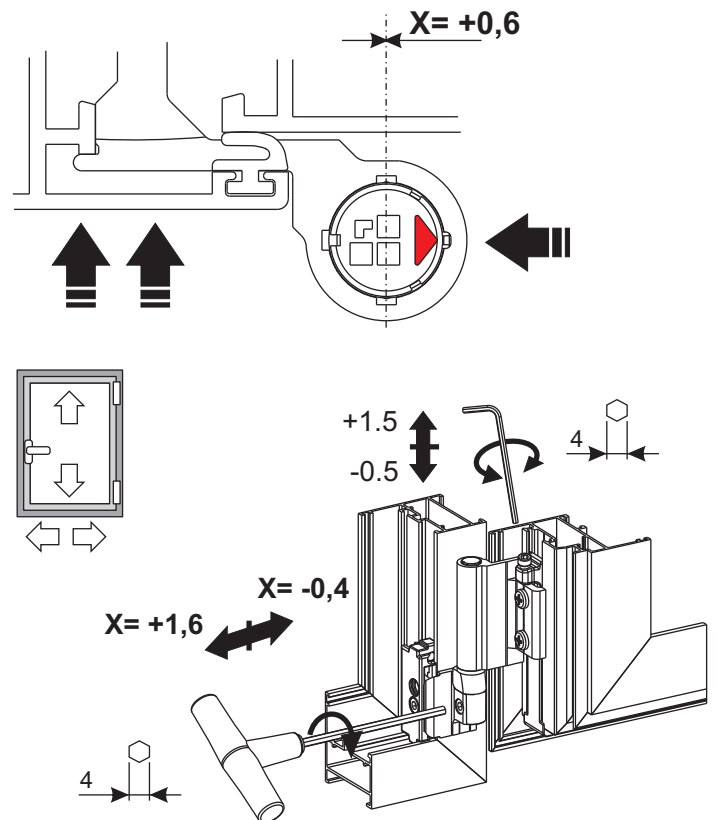
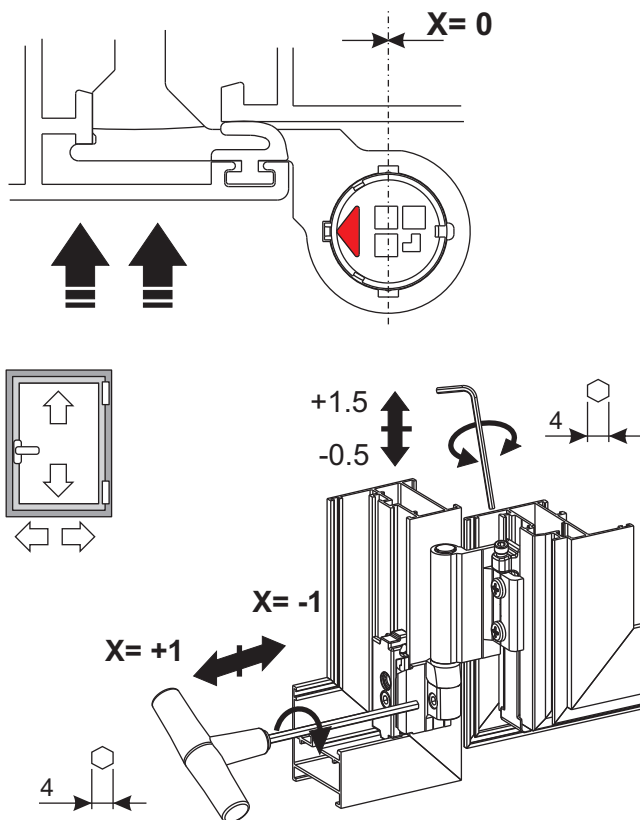
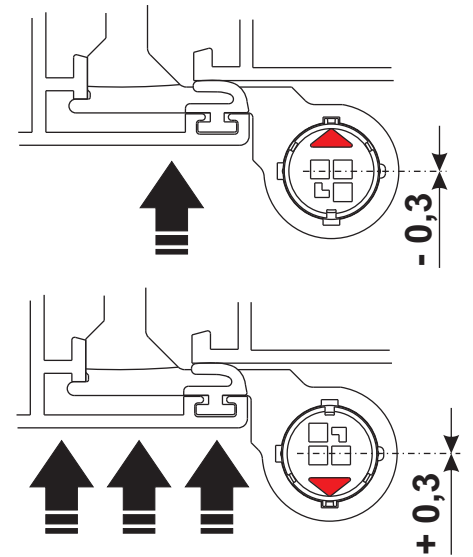
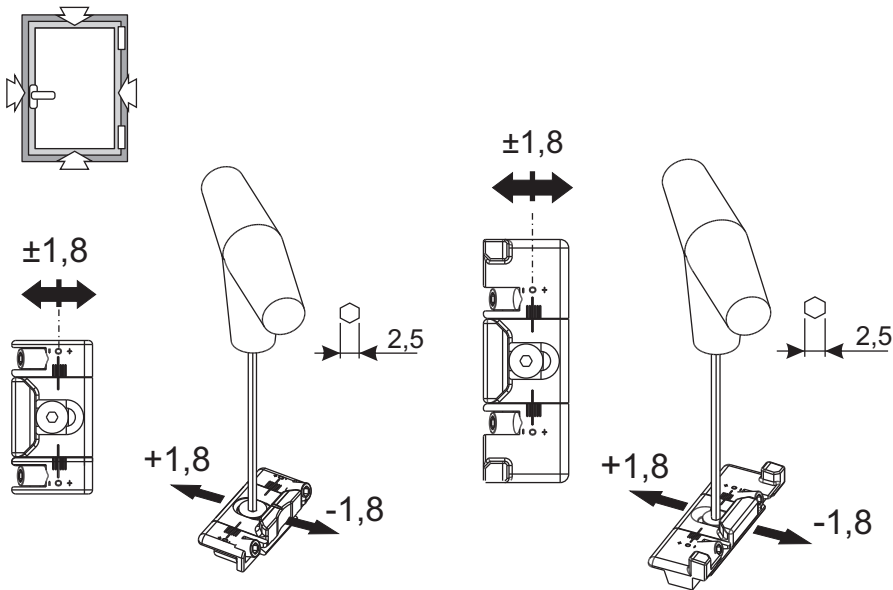
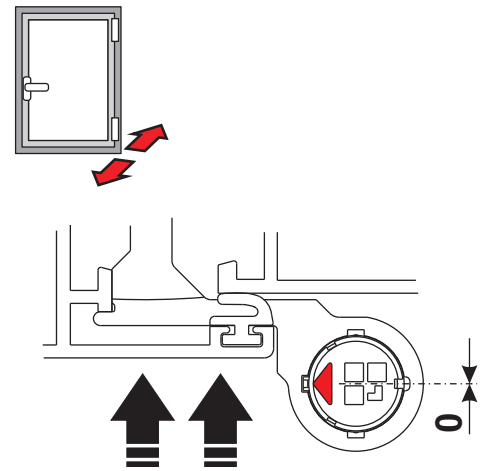
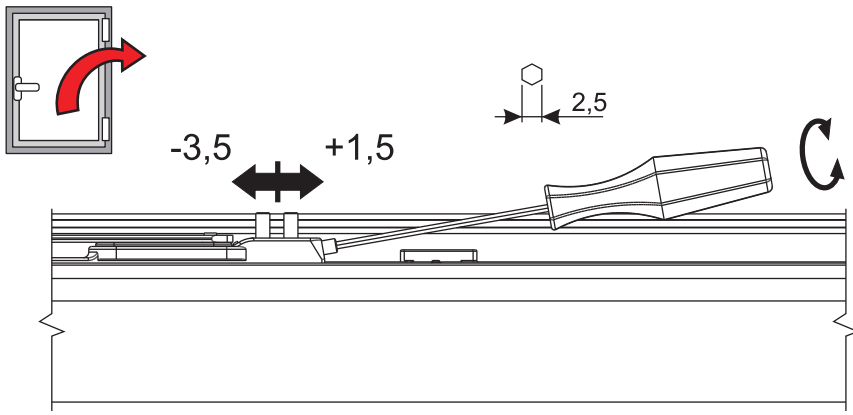
Maximum wing weight (aluminum and glass)

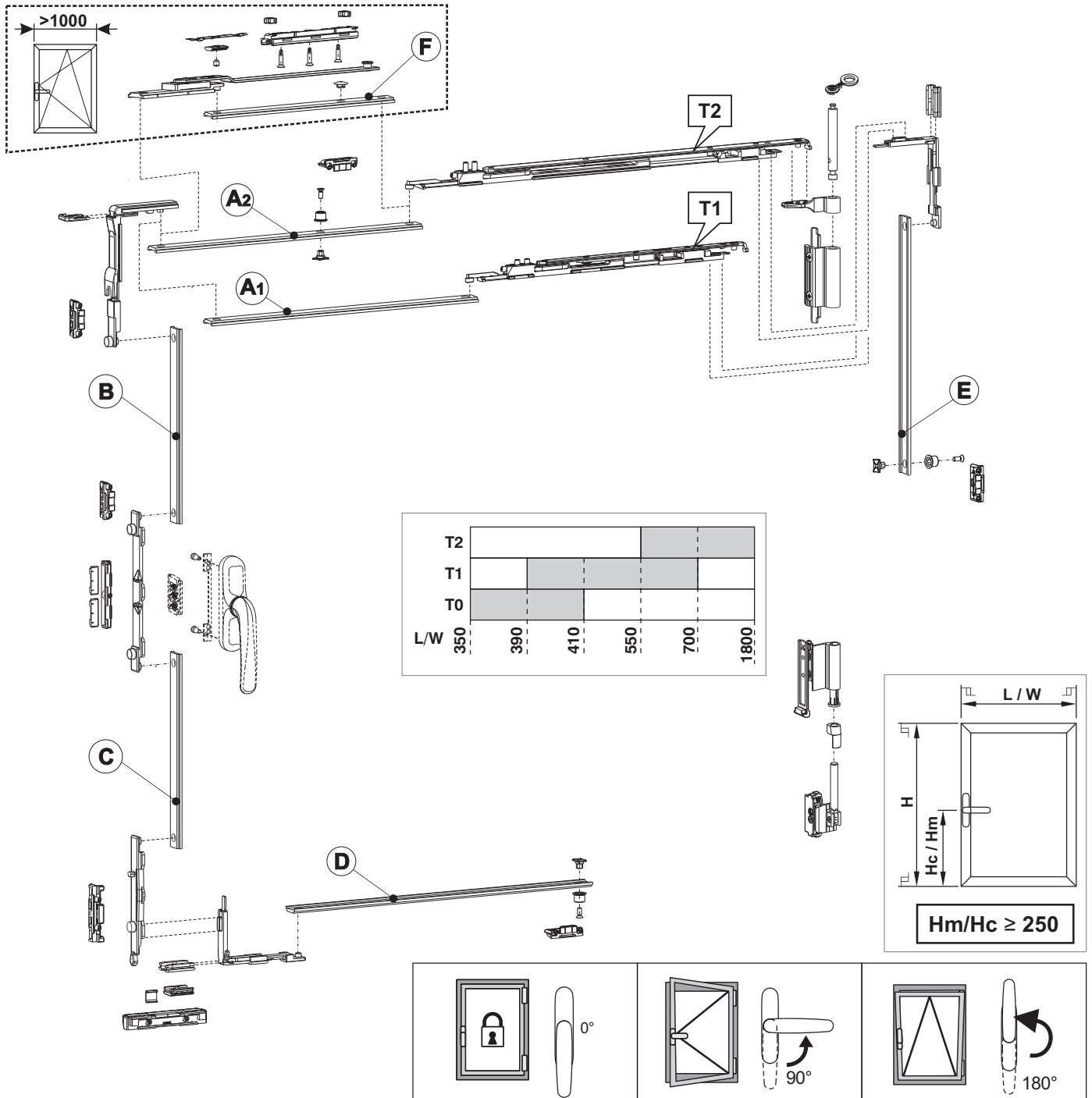
turn and tilt



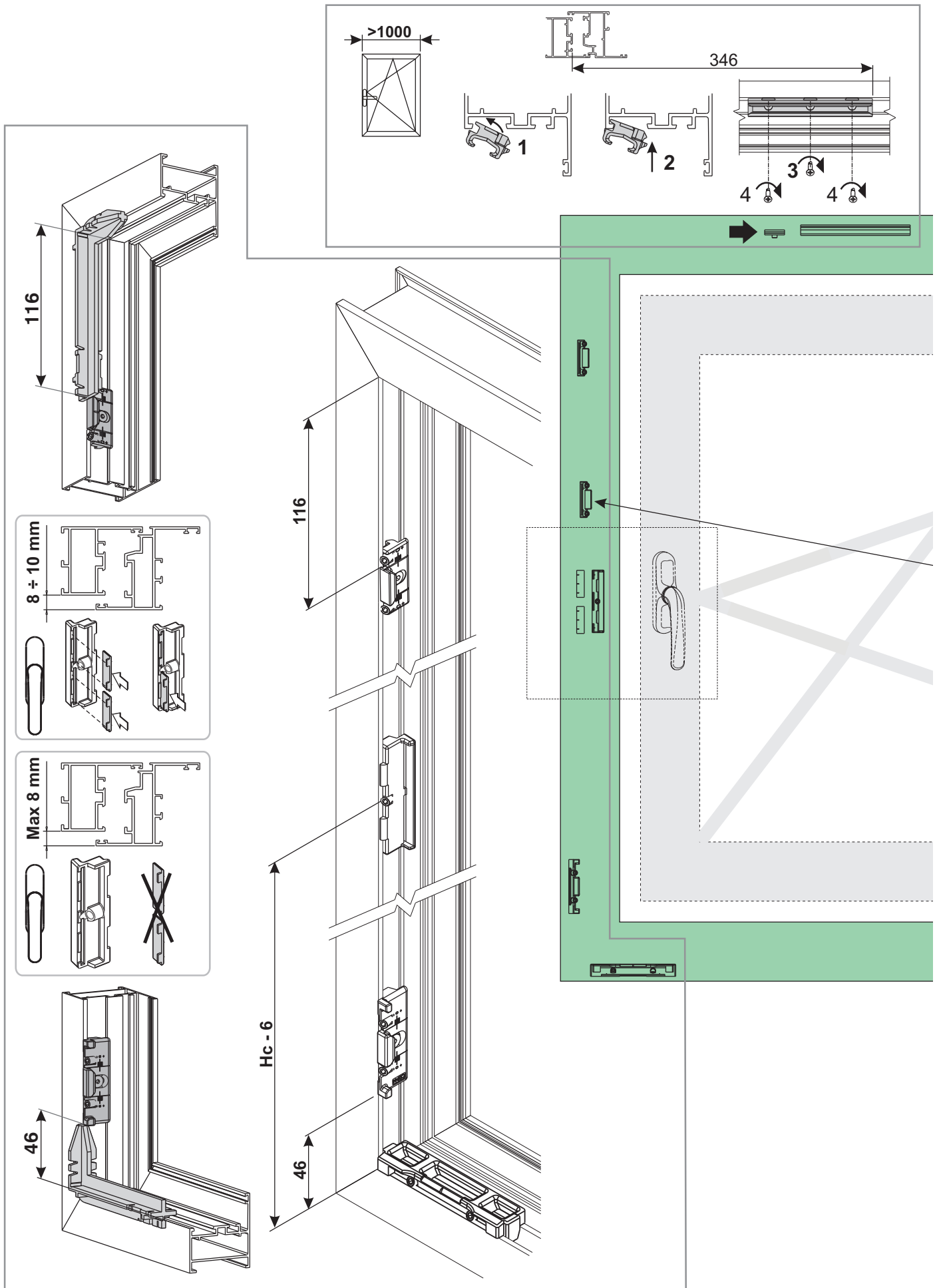
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2800	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2700	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2600	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2500	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
2400	140	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2300	140	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2200	140	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2100	140	140	140	140	140	140	140	140	140	140	140	140	140	140	130
2000	140	140	140	140	140	140	140	140	140	140	140	140	140	140	130
1900	140	140	140	140	140	140	140	140	140	140	140	140	140	139	125
1800	140	140	140	140	140	140	140	140	140	140	140	140	140	132	118
1700	140	140	140	140	140	140	140	140	140	140	140	140	133	125	112
1600	140	140	140	140	140	140	140	140	140	140	140	134	126	118	118
1500	140	140	140	140	140	140	140	140	140	140	135	126	118	111	105
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1300	140	140	140	140	140	140	140	138	127	118	110	104	97		
1200	140	140	140	140	140	140	140	128	118	110	103	96			
1100	140	140	140	140	140	140	129	118	109	101	95				
1000	140	140	140	140	130	118	108	100	93						
900	140	140	140	140	131	118	108	99	91						
800	140	140	140	133	118	106	97	89							
700	140	140	135	118	105	95	86								
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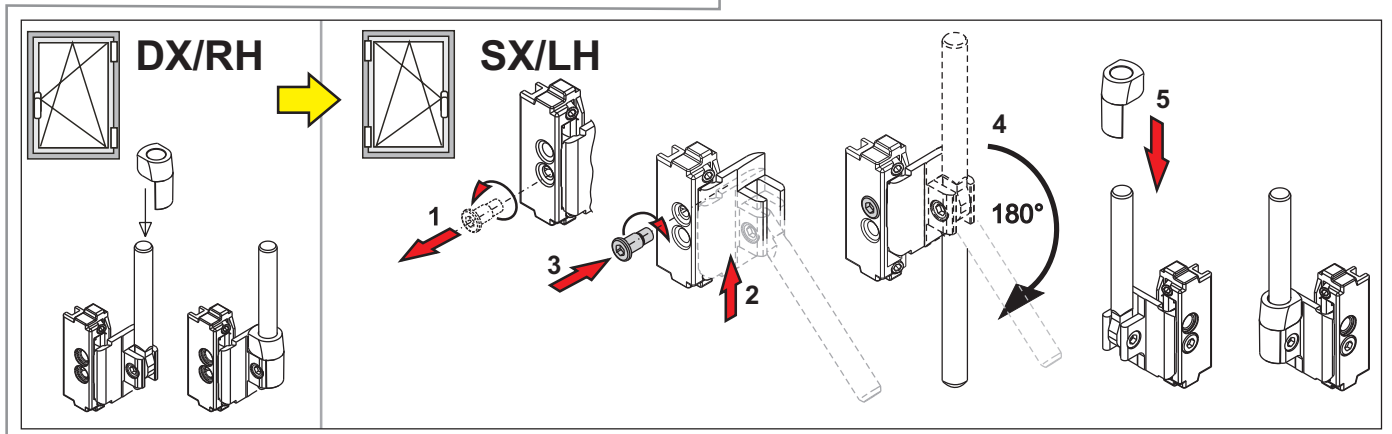
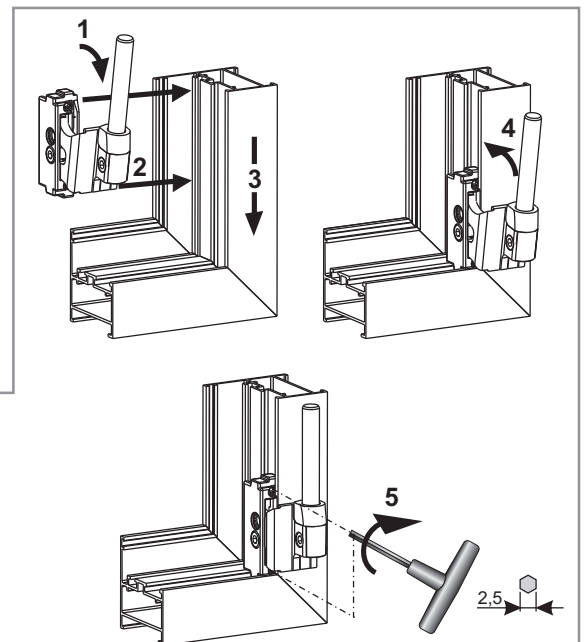
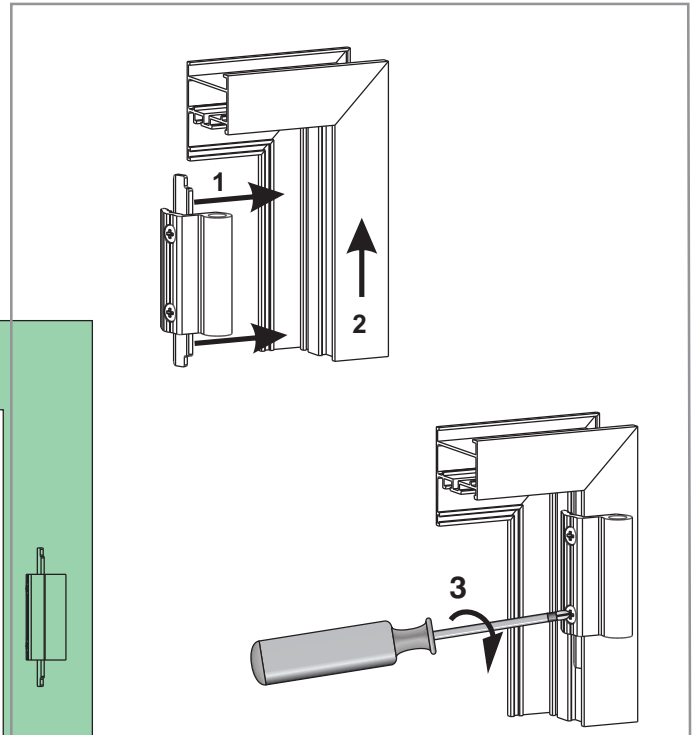
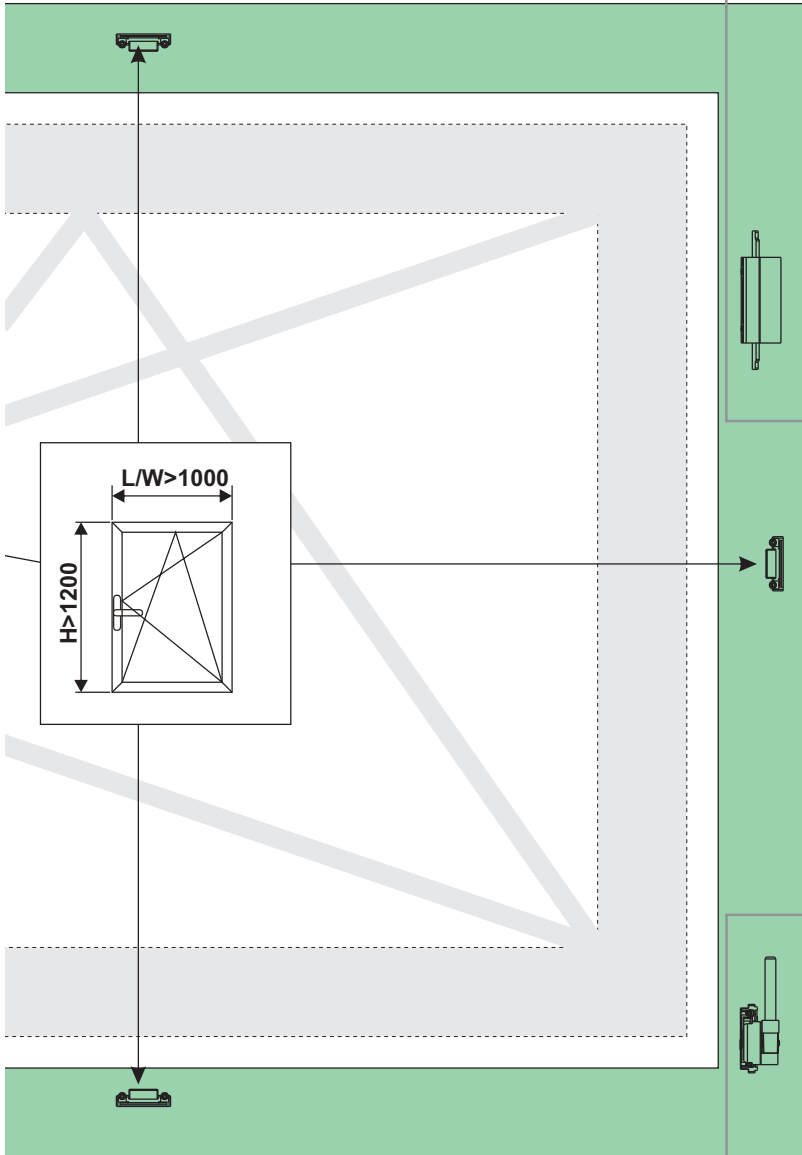
not possible

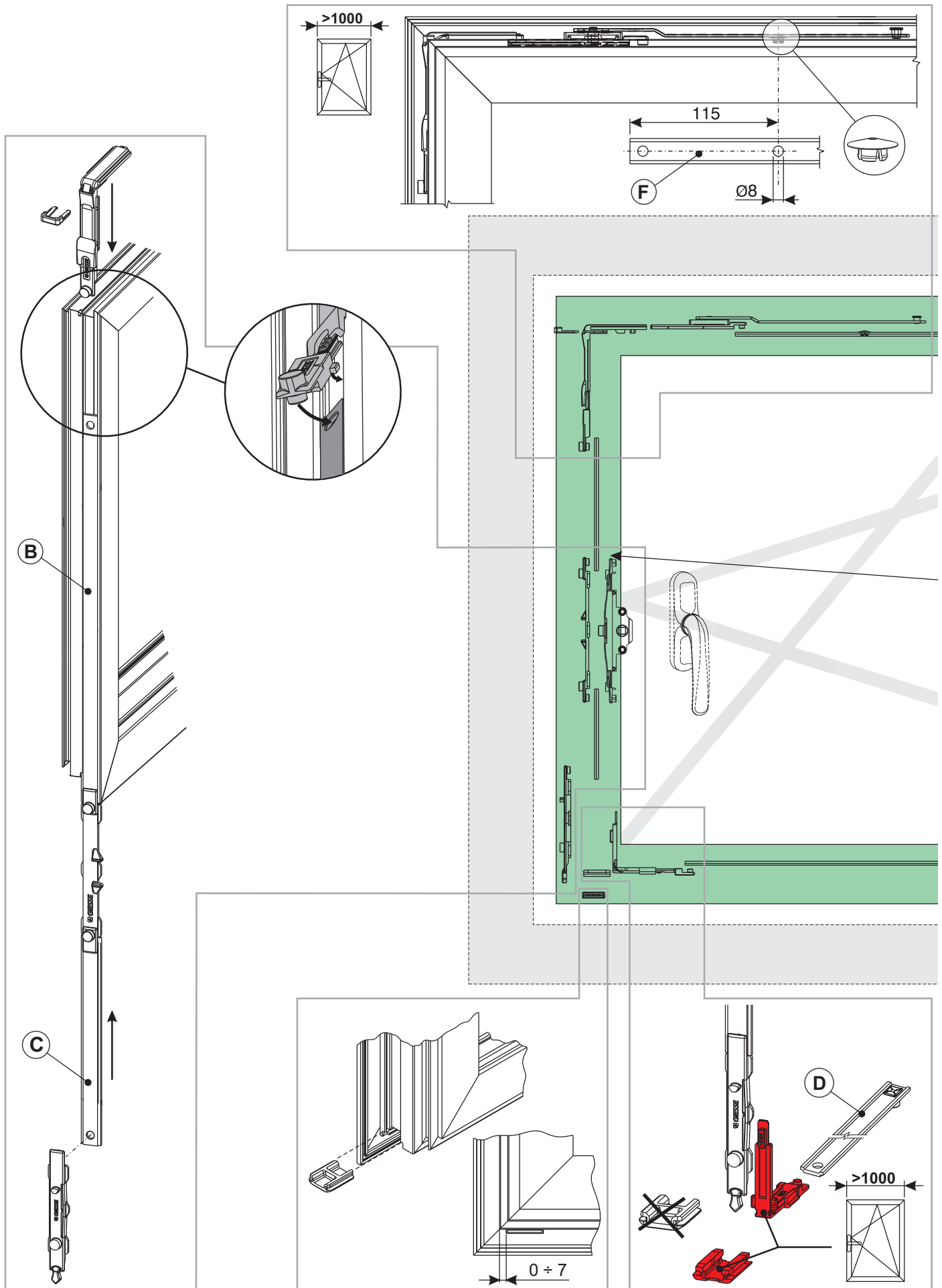


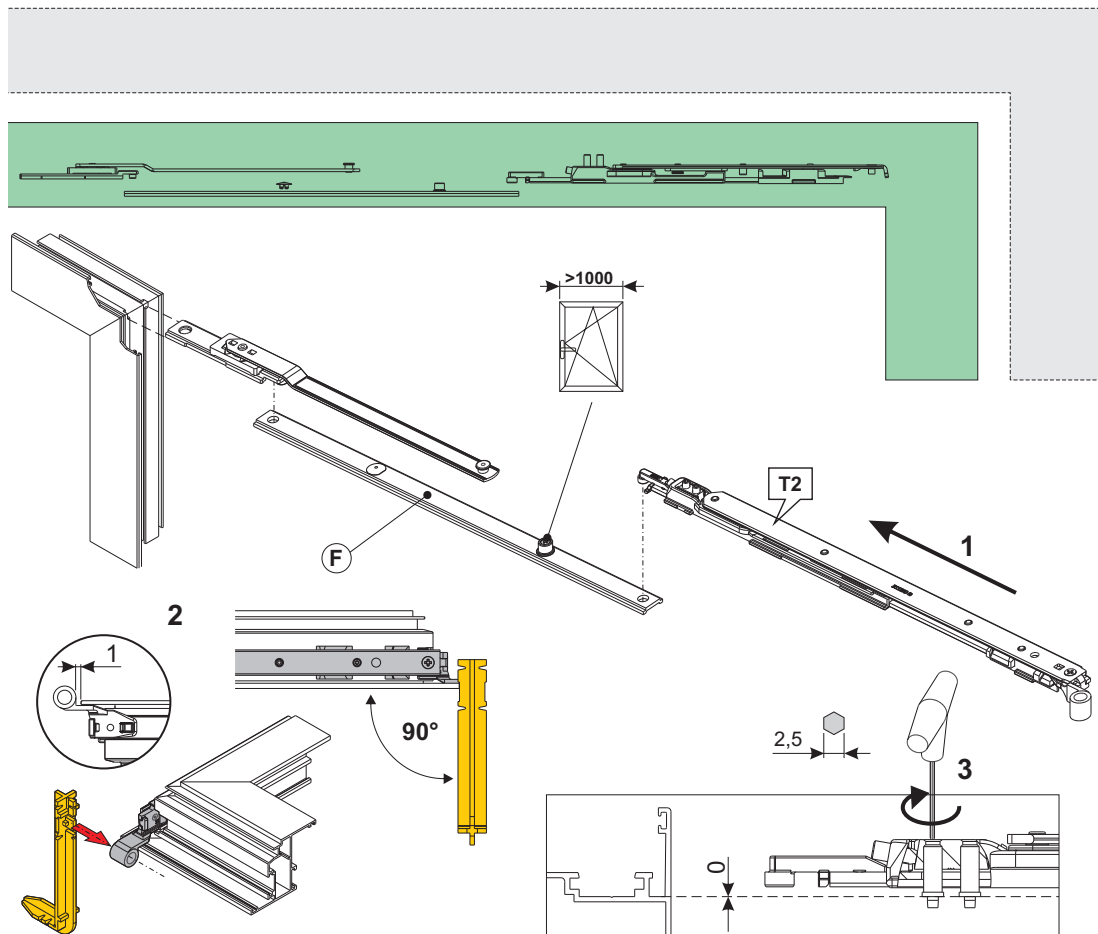
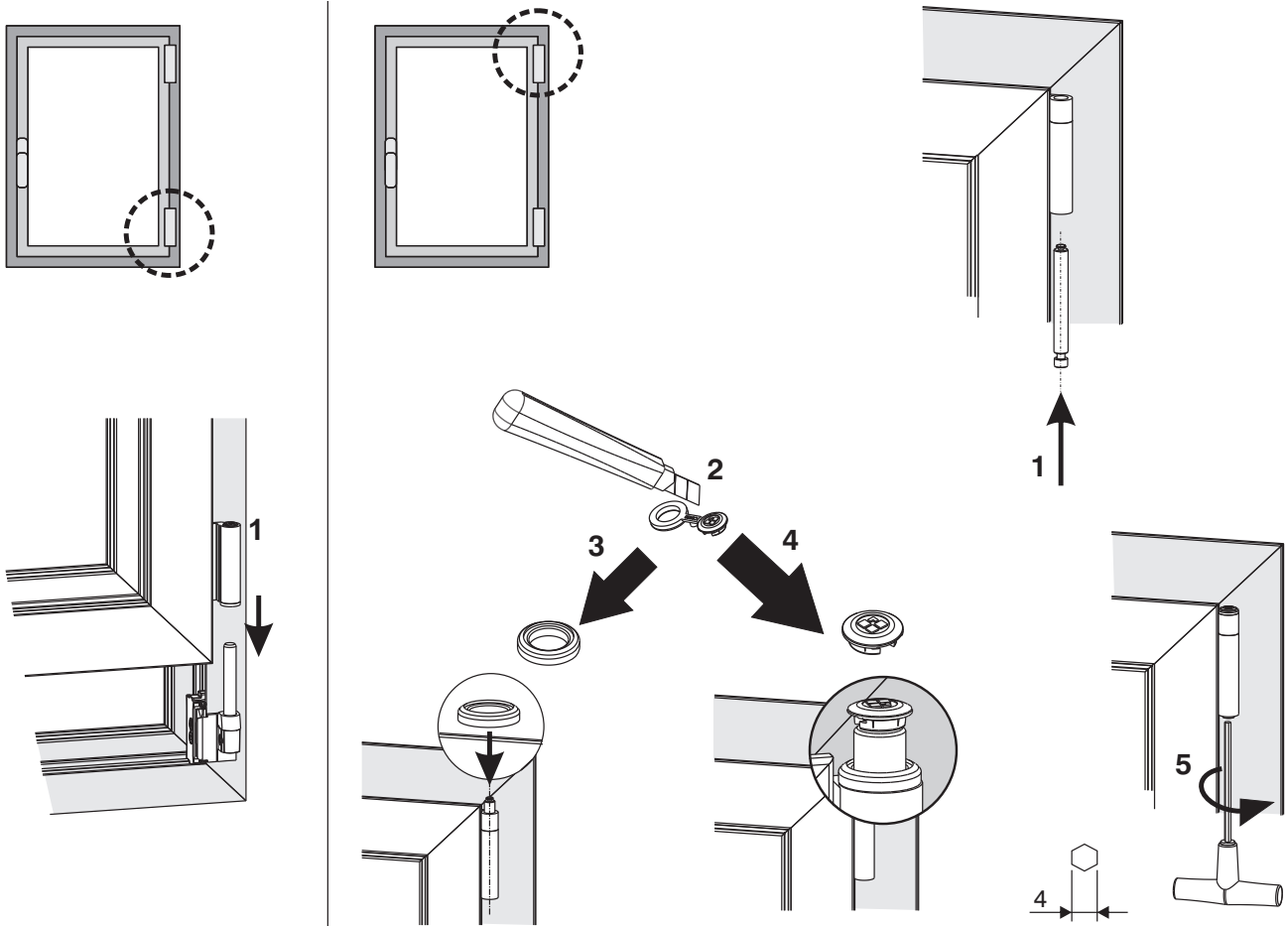


A1 B C	A1=L-355 B=H-Hc-207 C=Hc-207 E=H/2-69	A2 B C	A2=L-510 B=H-Hc-207 C=Hc-207 E=H/2-69	F B C D	F=L-607 B=H-Hc-207 C=Hc-207 D=L/2-69 E=H/2-69
A1 B C	A1=L-355 B=H-Hc-207 C=Hc-207	A2 B C	A2=L-510 B=H-Hc-207 C=Hc-207	F B C D	F=L-607 B=H-Hc-207 C=Hc-207 D=L/2-69
390	T1	700	550	T2	1000
1001	T2	1800			











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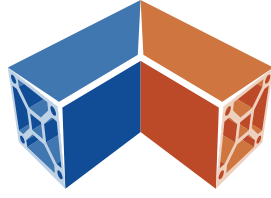




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