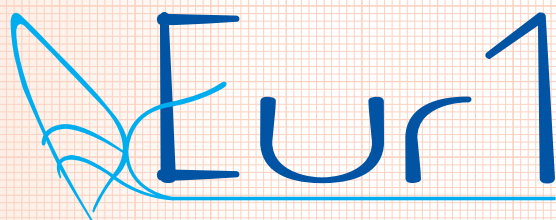




ProLam

alu profiles & components

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FRAME SYSTEM FOR DOORS THAT OPEN ON INSIDE (UNITS WITH POSITIVE PRESSURE)

Spiegazione della serie EUR-1 e caratteristiche dei materiali utilizzati con il calcolo flessionale dei profili, macchinari per la lavorazione dei profili.

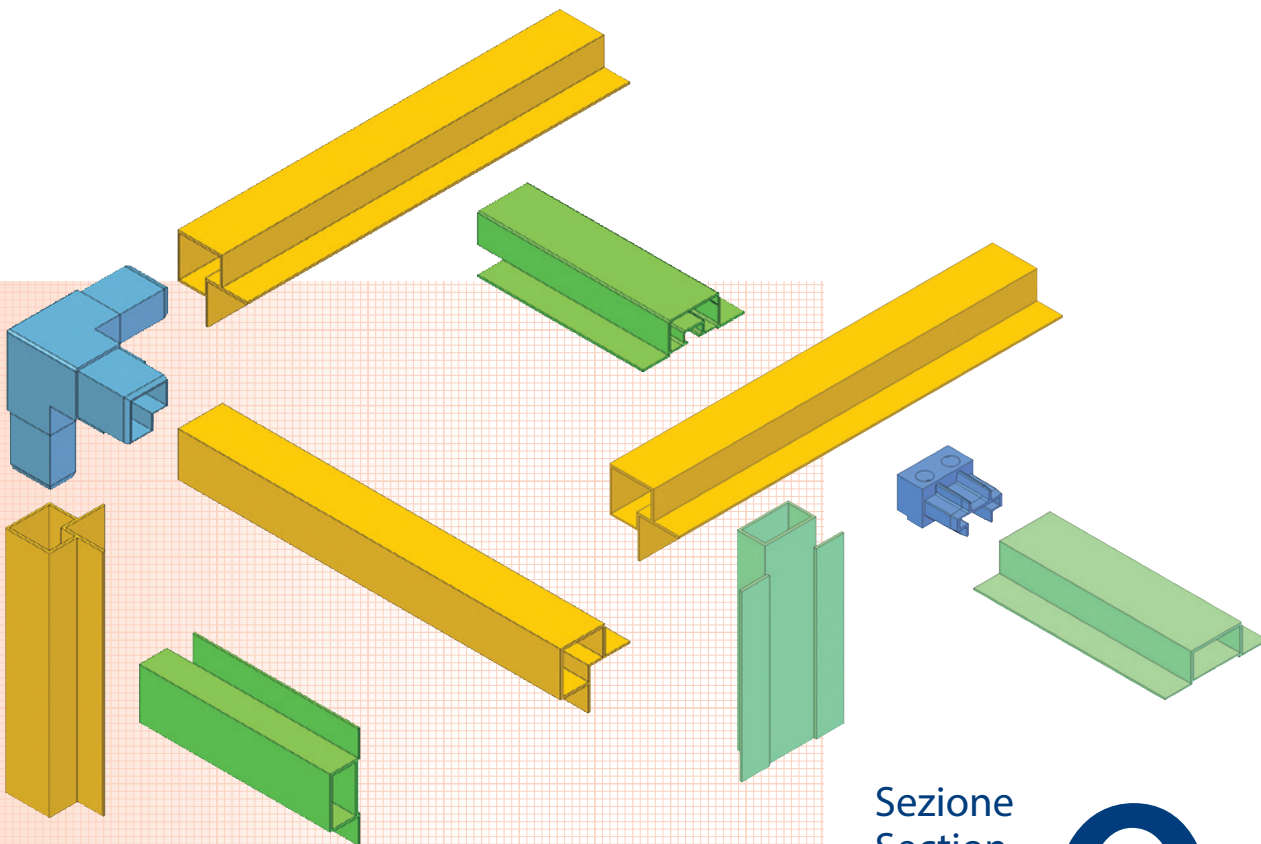
EUR-1 explanation and material characteristics with bending calculation of maximum stress and deflection, milling and cutting machine for profiles.

Explication de la série EUR-1 et caractéristiques des matériaux utilisés pour le calcul de la flexion des profils, équipements pour le traitement des profils.

Explicación de la serie EUR-1 y características de los materiales utilizados para el cálculo flexional de los perfiles, máquinas para procesar los perfiles.

Erklärung von EUR-1 und Materialeigenschaften mit Berechnung von maximaler Belastung und durchbiegung, Maschinen zur arbeiten von Profilen.

EUR-1系列的解释和利用材料的特征用外形的演算弯曲。



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01

THE SYSTEM: EUR-1 MODULAR FRAME SYSTEM

The patented EUR-1 series is a modular frame system of construction for framing structures, and components for many different applications.

The system is composed of aluminium profiles and accessories of several materials, with which it is possible to build machine/unit structures with various motor bases and enclosures. The structures are assembled by connecting the profiles to aluminium or nylon corners that create the outer edges of the unit. There are many other profiles to complete the structure, like the omega, or top hat profile, used for vertical and horizontal support to reinforce and subdivide the unit.

EUR-1 also offers a full range of accessories to complete the unit, including handles, hinges, locks and panel stops. They are available in different materials and in different designs to give the structure an aesthetically-pleasing finish.

In addition, the EUR-1 system includes components suitable for thermal bridge units, dampers, louvers, grilles, mist eliminators, etc.

APPLICATION FIELDS

Typical fields where the EUR-1 system is used are: air conditioning, air heating, air flow controlling, air handling units, ventilation, air pollution control, soundproof isolation, dampening control, painting, transport, electronics and exhibition booths.

PRODUCTION

Pro-Lam produces all the EUR-1 system components in-house. The main processes consist of:

- Aluminium extrusion;
- Aluminium die casting;
- Nylon and plastic moulding;
- Simple modifications to the aluminium coil.

In addition to producing standard components, we can provide customised components to meet customer requirements.

Pro-Lam can produce aluminium extrusions and accessories according to customer design and build basis.

FINISHING

- Anodisation of aluminium extrusions to the requested microns of thickness. The available colours are: silver (natural aluminium), black, bronze and gold;
- Varnishing in RAL and special colours of aluminium extrusion and accessories;
- Sandblasting of metal accessories;
- Moulding of nylon and plastic materials in different colours;
- Cutting to length of aluminium bars;
- Cutting to length of aluminium sheets.

AVAILABILITY OF THE EUR-1 PRODUCTS

The full range of products in the catalogue is in stock and stored in our warehouse near Milan. The aluminium bars are available in standard length of 6 metres.

Delivery is usually in 2 - 3 days, directly with our own trucks or through established international shipping agents.

QUALITY

Pro-Lam Alluminio is ISO 9001:2015 certified. ISO certifies that processes and work procedures are carried out in order to ensure quality and customer satisfaction.

INTERNATIONAL DISTRIBUTION

Pro-Lam Alluminio sells all over the world, directly and in collaboration with companies distributing the EUR-1 system.

Profili basamento motore ed unità, accessori.
Sistemi portafiltri.

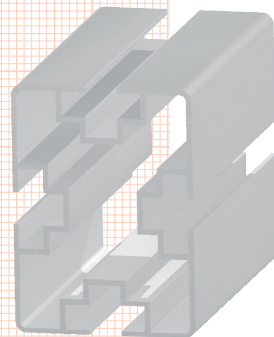
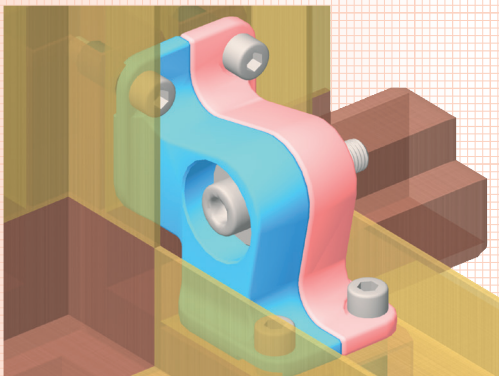
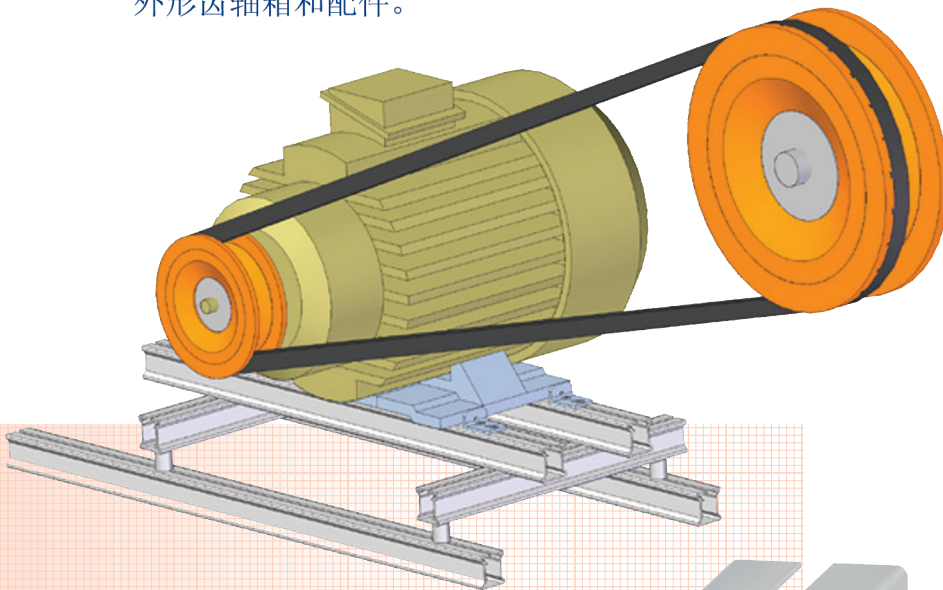
Base profiles and accessories.
Filter holder system.

Profils de bas pour moteur et unité, accessoires.
Système porte-filtre.

Perfiles base motor y unidad, accesorios.
Sistema de soporte para filtros.

Grundprofil und Zubehör.
Systeme filterhalter.

外形齿轴箱和配件。



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02

This introductory section should be very helpful and we suggest you to read it carefully. It contains the explanation of the EUR-1 series, the legend of the catalogue and the technical information regarding aluminium profiles and accessories. The representative EUR-1 system drawing, see page 03, illustrates how to use the corner post profiles and the relative nylon or aluminium corner joints to build the main structure. The corners are inserted by pressure, or tapped with a rubber hammer. The connection between profiles and corners is very tight and without gaps.

However, for some applications rivets or screws can also be used to tighten the corners. The profile used to subdivide the structure is called omega and it is available throughout the profiles range.

When an omega is used, a simple milling at both ends is needed in order to remove the part of the flanges that would otherwise overlap the flanges of the corner post profile. This simple operation is carried out with our milling machine TK 610Z, a very low cost machine tool (see page 7).

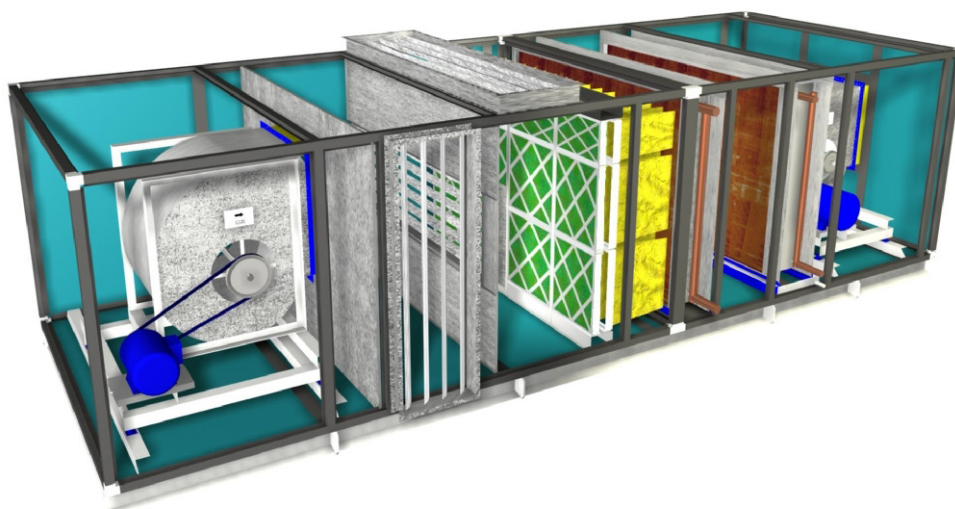
The main structure can be constructed with profiles of various dimensions and shapes; both square and blunted section profiles are available. The standard profiles are raw aluminium but also anodised and painted finishes are available.

The aluminium corners are sanded or black painted. All the aluminium corners are produced by die casting method. The alloys used have all the international certifications and it is also possible to produce with particular alloys according to the customer specifications. (Alloy certificates are available, including the chemical analyses.)

The standard colour of the nylon accessories is black; however, other colours are also available.

All the nylon accessories are produced through moulding process. The material used is primarily polyamide reinforced with fiberglass (nylon). They can withstand maximum temperatures between 100°C and 150°C; for short periods of time they can even endure up to 200°C.

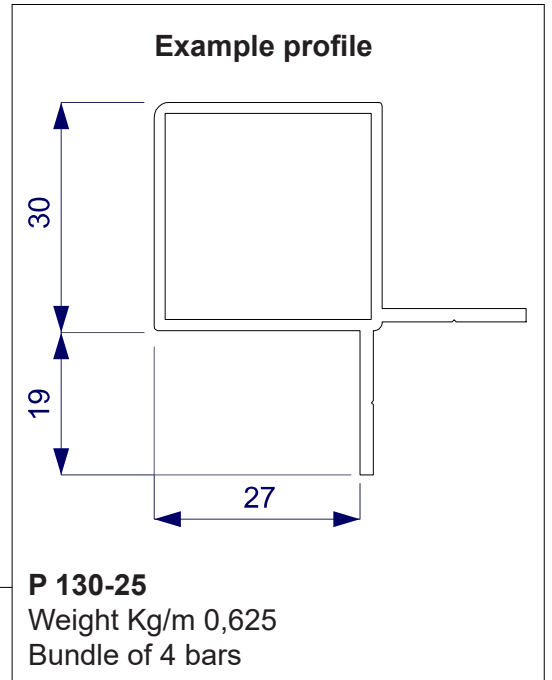
In Section 4 you will find all the technical information and drawings of the EUR-1 modular frame system.



MEANING OF CODES IN THE CATALOGUE

THE CODES PRECEDED BY THE FOLLOWING LETTERS RECALL THE TYPE OF PRODUCT AND MATERIALS USED.

- P aluminium profile
- S blunted aluminium profile
- BAS aluminium profile for base
- A aluminium
- N nylon reinforced with glass fibre
- SN nylon reinforced with glass fibre (blunted shape)
- DS painted steel or treated
- DN steel + nylon
- AN aluminium + nylon
- G gasket
- GTT PVC profile
- PTM panel



IMPORTANT NOTE

Example 1: Profile code description

“1” indicates the corner post shape.
“2” it is used for omega profile.

“30” indicates the square section in mm.

P 130/25

“25” indicates the thickness of the panel suitable for this profile.

Weight kg/m = 0,625

The theoretical weight is really important to calculate the price per metre inasmuch the quotation we make is in €/kg.

Bundle of 4 bars

Here we indicate the minimum quantity.
The length of the profile in stock is 6 mt.

Example 2: Accessories code description

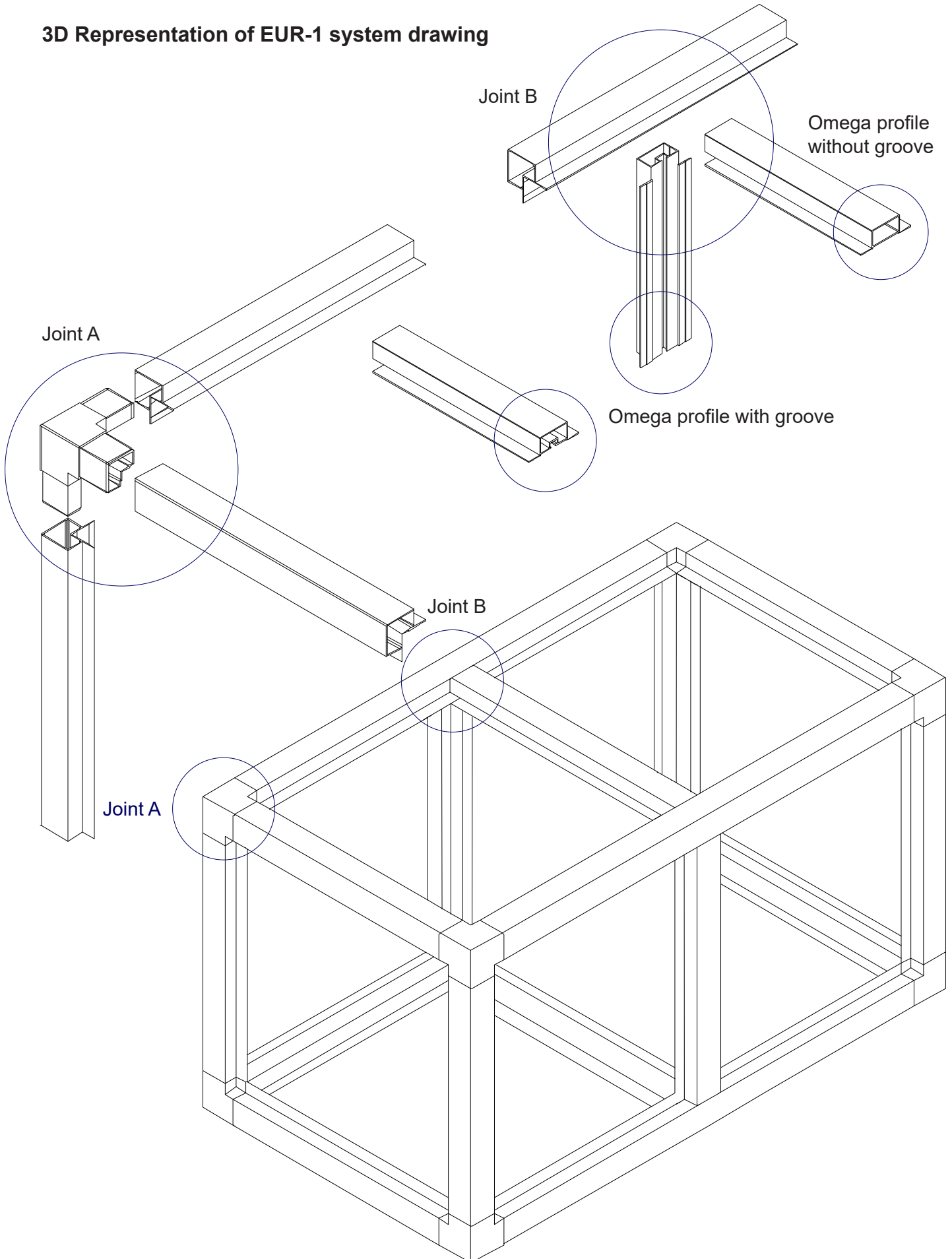
The first letter indicates the material.
(aluminium)

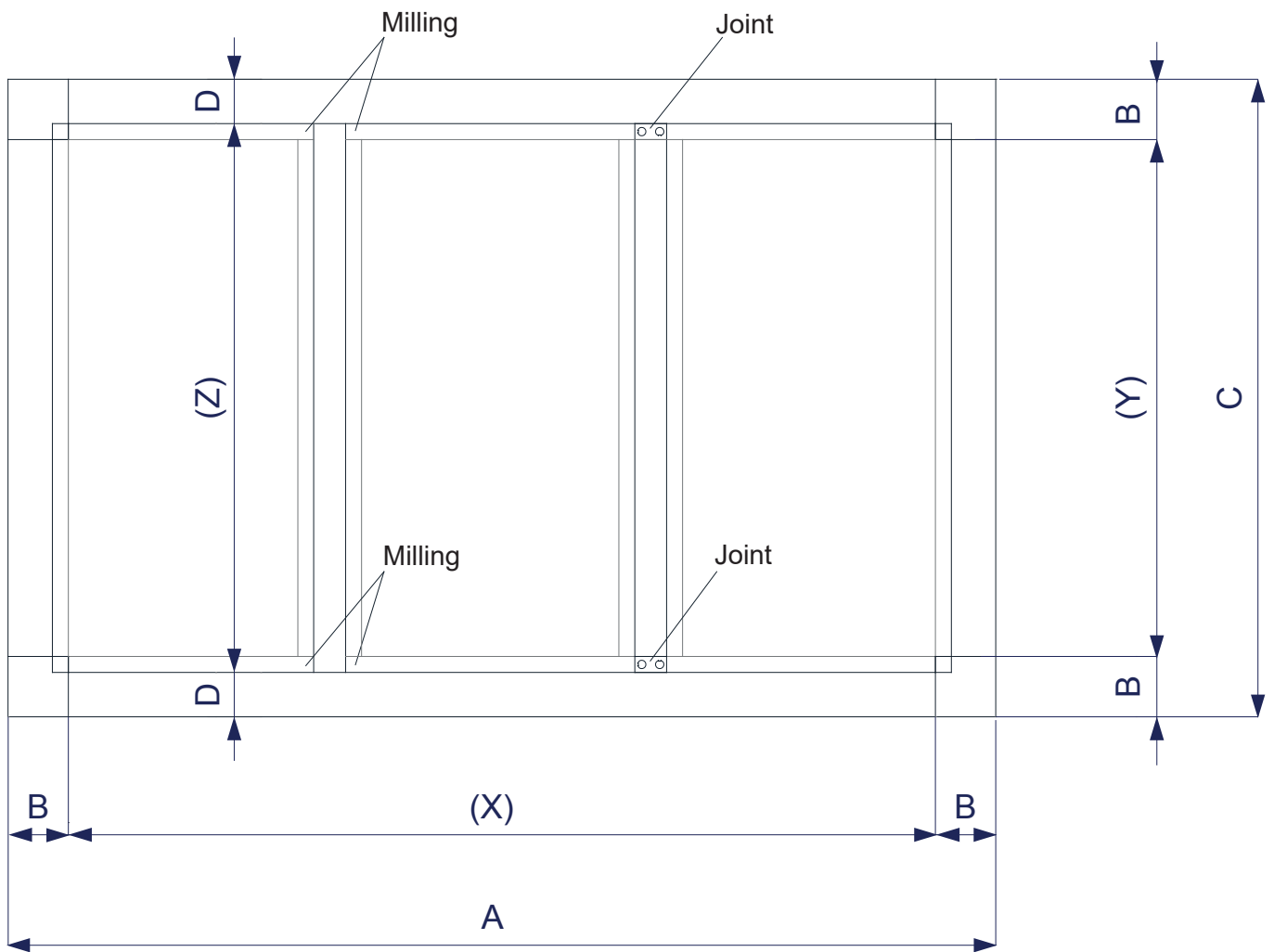
“30” indicates the square section in mm. (suitable for profile P 130/25)

A 30/25

“25” indicates the thickness of the panel suitable for this corner (suitable for profile P 130/25).

3D Representation of EUR-1 system drawing





DIMENSIONING OF CORNER POST PROFILES:

$$X = A - (B \times 2)$$

DIMENSIONING OF OMEGA PROFILES WITH JOINT:

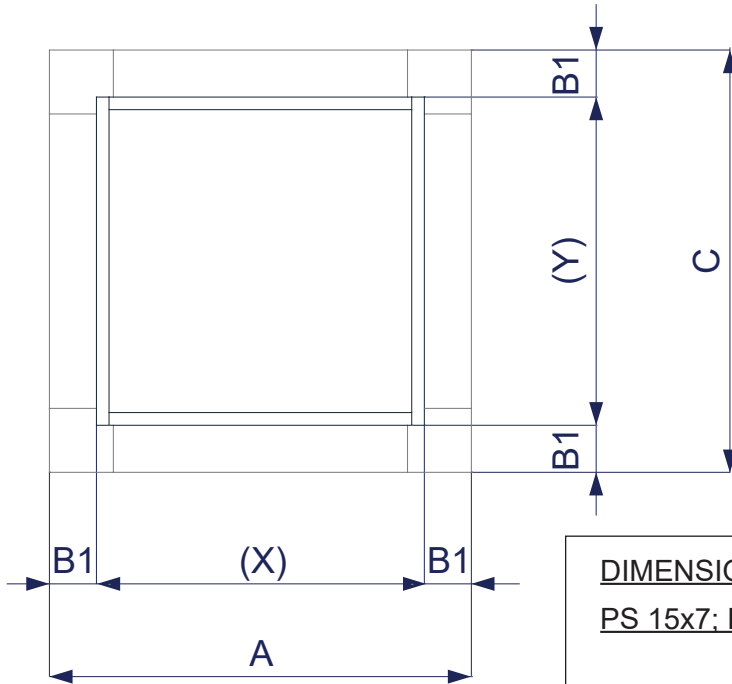
$$Y = C - (B \times 2)$$

(consider negative tolerance)

DIMENSIONING OF MILLED OMEGA PROFILES (NO JOINT):

$$Z = C - (D \times 2)$$

(consider negative tolerance)

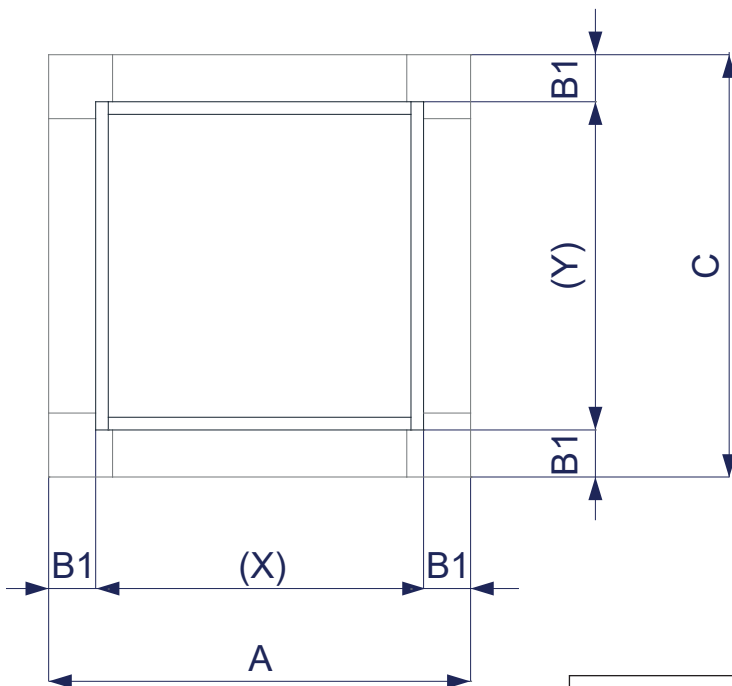


DIMENSIONING PANEL STOP PROFILES:

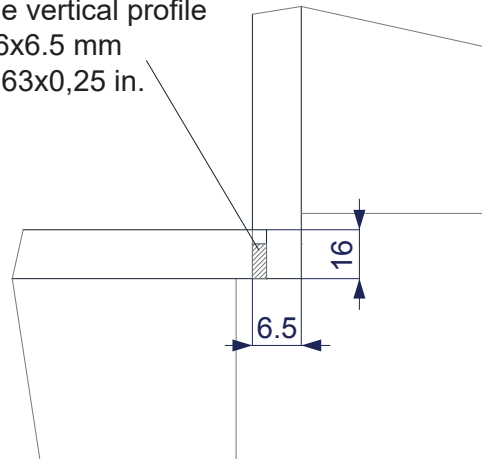
PS 15x7; PS 15x6; PS 15x6-1; PS-P 30-50

$$X = A - (B1 \times 2) - 30.5$$

$$Y = C - (B1 \times 2) - 0.5$$



Remove the soft part of
the vertical profile
16x6.5 mm
0,63x0,25 in.



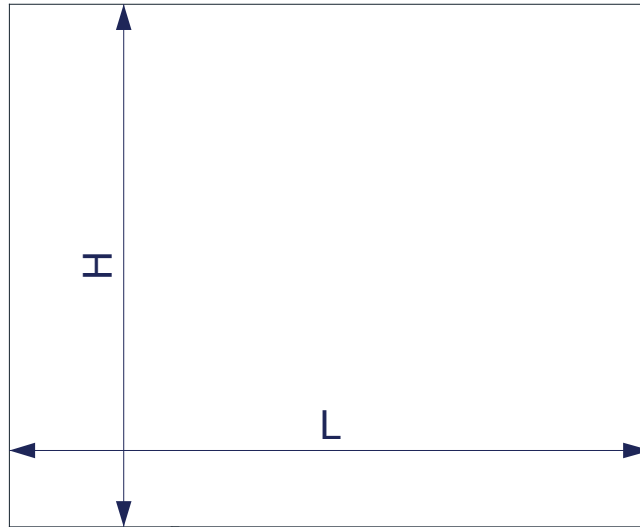
DIMENSIONING PANEL STOP PROFILES:

PVC-PS 15x6

$$X = A - (B1 \times 2) - 30.5$$

$$Y = C - (B1 \times 2) - 0.5$$

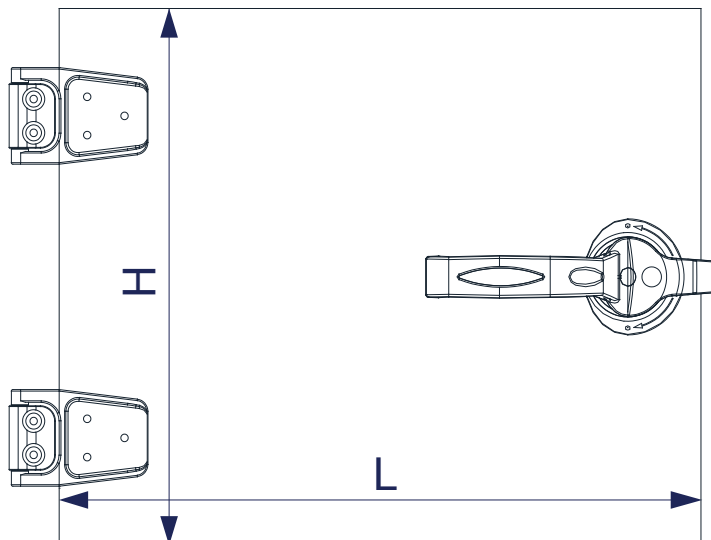
PANEL DIMENSIONING



L = INTERNAL PROFILE L - ≥ 3 mm

H = INTERNAL PROFILE H - ≥ 3 mm

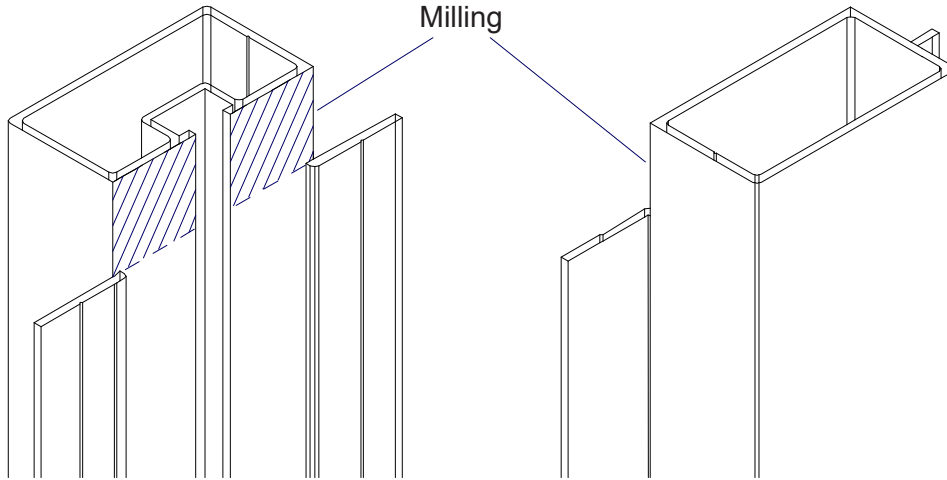
DOOR PANEL DIMENSIONING

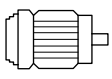

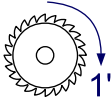
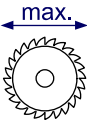
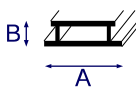
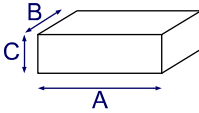



L = INTERNAL PROFILE L - ≥ 6 mm

H = INTERNAL PROFILE H - ≥ 3 mm

The omega profile should be milled at both ends in order to fit perfectly to a corner post profile or to another omega profile. This operation is best carried out with our milling machine, **MILLER O - 1**. The operation is very simple, just insert the end of the omega profile in the milling machine. The process takes about 2 seconds on each side.



						
1 HP 0,7 Kw	220-380 V 50 Hz	2800	120	220x95	1000x760x1130	135

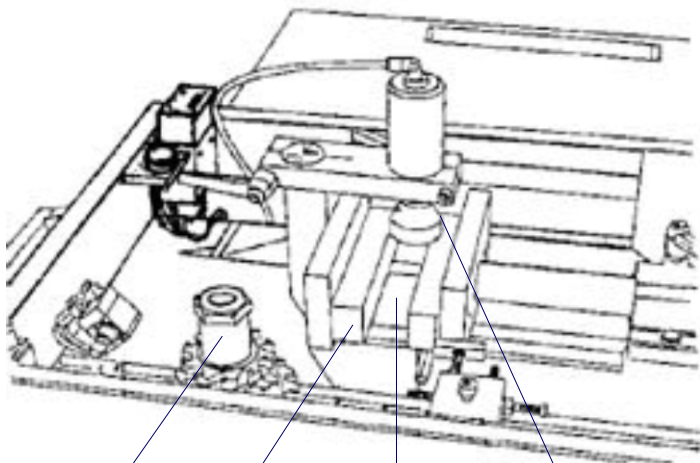
Semi automatic milling machine (omega profiles)

Miller 0-1

Box of 1 pcs.



MILLING CUTTER
Mill 120x4
Box of 2 pcs.



Mill Jaw Slide for profile Pneumatic piston





Single head cutting machine

Cutting-off / 1

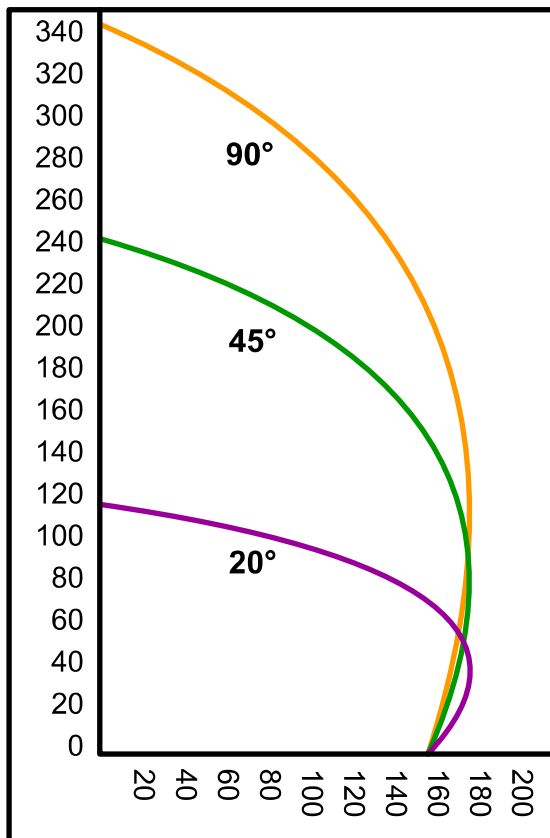
Box of 1 pc.

- Blade advancement: oleo-pneumatic
- Clamp pistons: pneumatic
- Control device: display showing the tilting of the head
- Tilting of the head: pneumatic

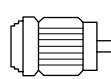

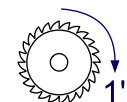
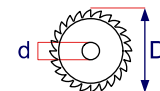
Safety and comfort:


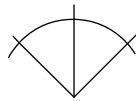
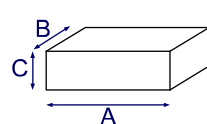

- Full enclosure to provide noise reduction and complete accident protection.
- Chips collection drawer.

Capacity cutting chart



Technical table

			
3 HP 2,2 Kw	220-380 V 50 Hz	2800	D=500 d=30

			
150	-45°, 90° 45°, 22,5°	900x1430x1470	450

Side tables (loading and unloading)

Loading table from 3 to 4.6 metres length.

Unloading side desks:

- complete with manually operated sliding rollers and measurement stop,
- complete with display to read the measure and hand-wheel to move the measurement stop,
- complete with electronic display and automatic movement of the measurement stop.

LIST OF THE AVAILABLE SOFTWARE

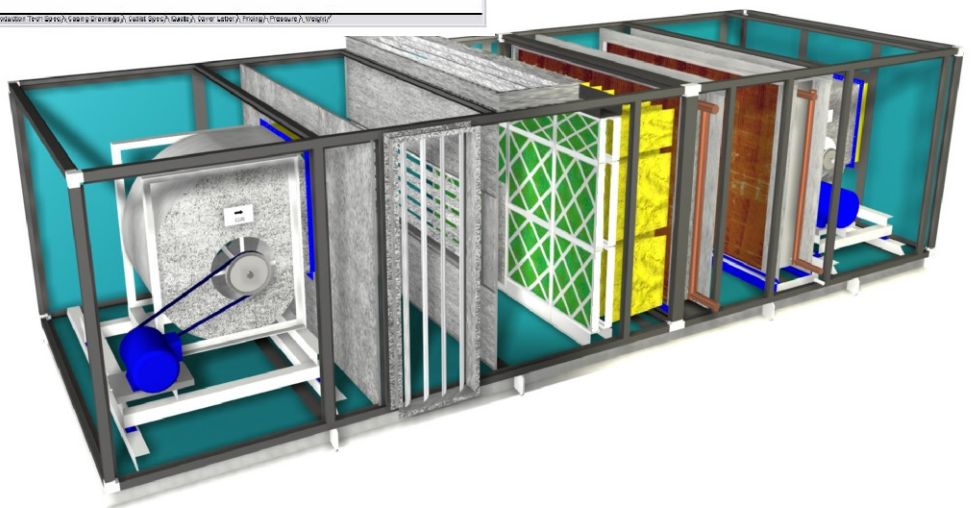
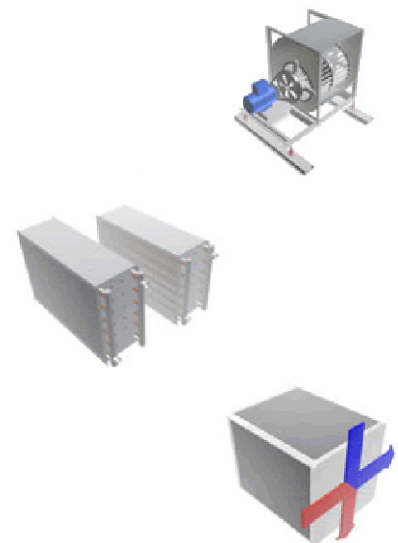
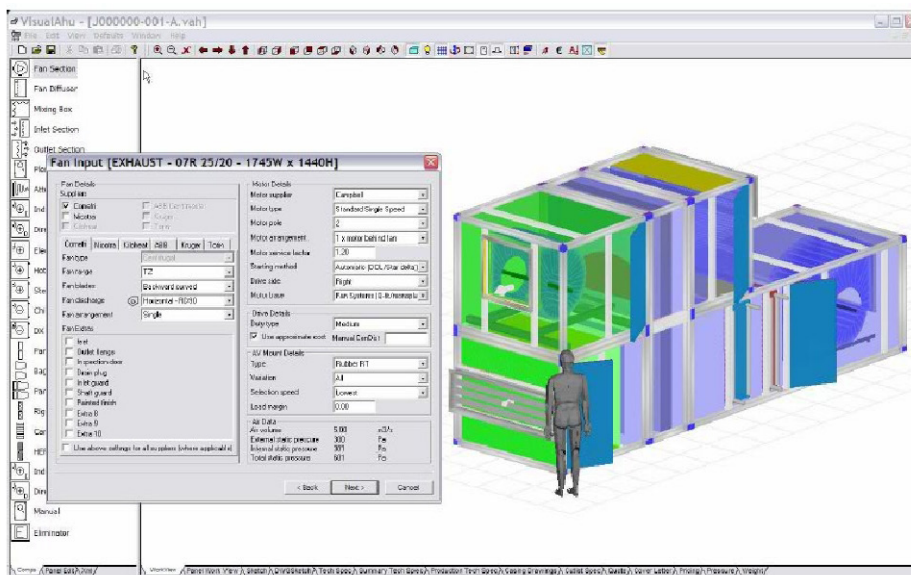
Visual-Ahu: for the selection of the components and the calculation of the costs of production and design. Visual 3D.

Inventor-Ahu: for users of Inventor Autodesk. It is an automated system that exploits the flexibility and power of this program.

CoilSelect-Online: For the selection of batteries.

Fanselect-Online: For the selection of fans.

PhxSelect-Online: For the selection of the heat exchangers.



FEATURES

- Unique 3D view
- Fully customisable,
- Database driven,
- Incorporates “blackbox” selection of all major component manufacturers (fan, coil, frame etc.),
- Additional supplier components can be easily added.

MANUFACTURING LINKS

- Autocad - SolidEdge
- Inventor - Most other leading mechanical design system

OUTPUTS

- Drawing (*DWF / DWG*),
- Full quotation (*HTML, XML, WORD*),
- Fan curves,
- Psychrometric Charts,
- Detailed manufacturing drawings (*DWF / DWG*),
- CNC Output,
- Full BOM.

1° PART*

TECHNICAL DATA SHEET OF ALLOY 6060 AND ALUMINIUM PROFILE

6060 T5 9006/1 EX UNI 3569

Correspondence to normative laws

USA	Italy	Germany	-	France	Great Britain	Switzerland
A.A.	UNI	DIN	W.N.	Afnor	B.S.	S.N.
6060	9006/1 EX UNI 3569	AlMgSiO,5	3.3206	6060	6060	AlMgSi0.5

Chemical composition

Specification number	-										Impurity	
A.A.	Si	Fe	Cu	Mn	Mg	Cr	Zn	Zr	Ti	Each	Total	
6060	0.3 0.6	0.1 0.3	0.10	0.10	0.35 0.6	0.05	0.15	-	0.10	0.05	0.15	

Mechanical characteristics

Specification number A.A.	Physical condition according to UNI 3565	Physical condition according to UNI 8278	Tensile strength at break Rm (N/mm)	Yield point Rp 0.2 N/mm ²	Stretching to break point %	Hardness HB
6060	R	O	140 max	80 max	20	40 max
	TaN	T1	120	50	16	35
	TaA	T5	185	145	11	55
	TA	T6	205	165	10	60

PHYSICAL PROPERTIES:		
VOLUMIC MASS:		≈2,70 kg/dm ³
INFERIOR MELTING POINT:		≈605 °C
SPECIFIC HEAT:		≈0,92 J/(g · K)
THERMAL STATE CONDUCTIVITY 20°C:	STATE Ω	≈2,09 W/(cm · K)
	STATE T6	≈1,75 W/(cm · K)
THERMICAL LINEAR EXPANSION COEFFICIENT:		from 20° to 100° 23 · 10 ⁻⁶ · K ⁻¹
		from 20° to 200° 24 · 10 ⁻⁶ · K ⁻¹
		from 20° to 300° 25 · 10 ⁻⁶ · K ⁻¹
RESISTIVITY AT 20°C	STATE Ω	≈3,14 μO · cm
	STATE T6	≈3,25 μO · cm
ELASTIC MODULUS:		≈66000 N/mm ²
HEAT TREATMENTS		
T5 (standard)	Temper at the press following to artificial ageing from 170 to 185°C for 6 - 10 h to regime.	
TECHNOLOGICAL PROPERTIES		
PROCESSING AND BEHAVIOUR	SPECIFICATION	APPRAISAL
cold plastic forming	for states O,T1,T4	good
	for states T5,T6,T8 ,T10	scarce
weldability	with arc in inert gas (MIG and TIG) and with added metal in alloy Al-Si o Al-Mg	good
	electrical resistance	good
machinability	for states O T1,T4	redoubt
	for states T5,T6,T8 T10	from sufficient to good
polishability	for states O T1,T4	sufficient
	for states T5,T6,T8 T10	good
corrosion proofness in the environment	marine and industrial	good
	urban and rural	good
	internal and dry	optimal
aptitude at anodizing	as protection and decorative use	optimal

INERTIA MOMENTS AND STRENGTH									
PROFILES	Jxcm ³	Jxcm ⁴	Wx ³	Wy ³	PROFILES	Jxcm ³	Jxcm ⁴	Wx ³	Wy ³
P120/10	1,93	1,93	1,29	1,29	P170/50	45,53	45,53	10,76	10,76
P120/18	1,28	1,28	0,91	0,91	P270/50	26,86	51,50	12,33	12,33
P220/18	0,80	2,16	0,67	0,67	P170/50bas	389,09	85,14	42,52	16,37
P130/25	4,10	4,10	1,90	1,90	Bas 40	7,87	9,07	3,75	4,53
P231/25	3,74	5,21	1,85	1,85	Bas 60	30,37	22,10	12,12	8,18
P232/25	4,54	4,54	3,26	3,26	Bas 80	94,78	88,80	23,69	22,20
P130/25bas	6,29	6,72	10,39	10,39	Bas 80/110	202,07	117,74	36,74	29,43
P140/20	8,90	8,90	3,54	3,54	Bas 100/40	79,80	17,91	15,96	8,95
P240/20	2,64	11,86	1,88	1,88	Bas 100/50	243,29	22,50	48,66	16,37
P242/20	2,15	9,50	1,75	1,75	Bas 150/50	241,19	31,66	32,16	10,92
P140/25	9,25	9,25	3,27	3,27	Bas 151/50	25,33	31,72	6,66	5,02
P240/25	3,97	14,25	2,87	2,87	S 1400/25	8,15	8,15	3,05	3,05
P242/25	3,61	11,07	0	0	S 2400/25	3,97	14,25	2,87	2,87
P140/25bas	187,30	18,78	22,84	22,84	S 2401/25	3,51	11,07	0	0
P141/25	15,25	15,25	5,03	5,03	S 1400/35	9,11	9,11	3,40	3,40
P241/25	15,30	15,30	5,47	5,47	S 2400/35	8,36	13,60	3,48	3,40
P241/25bas	197,50	25,4	27,32	32,00	S 1500/25	14,01	14,01	4,80	4,80
P150/25	15,57	15,57	4,82	4,82	S 2500/25	4,55	20,18	2,76	2,76
P250/25	4,55	20,18	2,76	2,76	S 1501/45	17,05	17,05	5,10	5,10
P252/25	4,28	16,53	5,56	0	S 1700/50	43,53	43,53	9,80	9,80
P150/25bas	226,15	25,84	4,44	25,48	S 2700/50	26,86	51,50	12,33	12,33
P151/25	126,30	17,29	4,02	4,02	S 1700/50b.	389,09	85,14	42,52	16,37
P251/25	19,67	21,13	3,91	3,91	P160/45	40,05	40,05	9,60	9,60
P151/25bas	5,09	25,96	25,51	25,51	P160/45/IR	41,00	41,00	9,62	9,62
P150/45	19,83	19,83	5,67	5,67	P260/45	34,20	67,20	8,60	2,80
P250/45	17,53	23,16	5,97	5,97	P126	1,30	33,60	1,70	0
P252/45	16,24	22,57	0	0	P127	1,50	67,70	0,80	0,80
P151/45bas	16,47	30,97	5,15	30,02	P118	4,60	123,00	2,10	0
P170/25	45,16	45,16	22,54	22,54	P128	5,00	130,00	2,50	0
P170/25bas	379,53	84,59	16,26	41,47					
P270/25	6,11	39,82	7,24	4,73					

2° PART*

TECHNICAL DATA SHEET OF DIE CASTING ALUMINIUM AB 46100 (accessories)

CHEMICAL ANALYSIS (% of elements)

Cu 1,869	Mg 0.133	Si 11,445	Fe 0,794	Mn 0,207	Ni 0,084	Zn 1,164
Pb 0,141	Sn 0,022	Ti 0,061	Cr 0,048	Sb 0,003	P >0,0020	Na 0,0005

MECHANICAL AND BEHAVIOUR PROPERTIES OF ALLOY AB 46100

CHARACTERISTICS	JUDGEMENT	FAMILY
Fluidity	Excellent	Aptitude, obtaining or as cast
Resistance at shrinkage cracking	Good	
Pressure tightness	Correct	
As cast	Correct	Other properties, workability
After heat treatment	-	
Corrosion proofness	Ordinary	
Decorative anodising	Not recommended	
Aptitude at smoothness	Correct	
Linear thermal expansion 10/K 293-373K	20	
Electrical conductivity MS/m	from 14 to 18	
Heat conduction W/(mk)	from 120 to 130	
Weldability	Uncompatible	
Resistance to room temperature	Good	Mechanical properties
Resistance at temperature up to 200° C	Good	
Ductility (resistance to shock)	Ordinary	
Fatigue resistance Mpa	From 60 to 90	

MINIMUM MECHANICAL PROPERTIES OF ALLOY FOR CAST OBTAIN BY DIE-CASTING

Alloy	Specification metallurgical state	Resistance to tensile strenght Rm MPa min.	Unit load of shifting from proportionality Rp 0.2 MPa min.	Extension A50 mm% min.	Hardness Brinell HBS
EN AB 46100	F	240	140	<1	80

3° PART*

TECHNICAL DATA SHEET OF NYLON FOR MOULDING OF ACCESSORIES

Nomenclature: DURETHAN BKV (polyamide 6 reinforced with fibre glass at 30%)

Structural formula: $[\text{NH}-(\text{CH}_2)_5-\text{CO}]_n$ - da E - caprolactam

Physical construction partially crystalline: isotope structure finely crystalline

Apparent specific weight: approx. 700 kg/m³

Density: approx. 1,21-1,60 g/cm³

Operating temperature: 80-150°C

MECHANICAL PROPERTIES

	Testing condition	Units	Standard	Tester	Dry value
Yield point	50 mm/min	N/mm ²	ISO/R 527 DIN 53455	Bar n°3 (4 mm. thickn.)	-
Breaking point	50 mm/min	N/mm ²	ISO/R 527 DIN 53455	Bar n°3 (4 mm. thickn.)	-
Elongation breaking point	50 mm/min	N/mm ²	ISO/R 527 DIN 53455	Bar n°3 (4 mm. thickn.)	-
Hardness sphere H 30	Method B	N/mm ²	ISO/R 527 DIN 53455	50x6x4 / 80x10x4	210/140

THERMAL PROPERTIES

	Testing condition	Units	Standard	Tester	Dry value
Fusion temperature	-	C°	According to Kofler	Cooled Mass	217-221
Softening temperature VST/B 50	49,05 N	C°	ISO 306, DIN 53460	10x10x4	>200
HDT Thermal stabilityH	A (1,80N/mm ²)	C°	ISO 75, DIN 534611	10x10x4	200
HDT Thermal stability	B (0,45N/mm ²)	C°	ISO 75, DIN 534611	10x10x4	215
HDT Thermal stability	C (5,00N/mm ²)	C°	ISO 75, DIN 534611	10x10x4	-

The lexan polycarbonate is a tecnopolymer with very high mechanical, optical, thermal and electrical properties. Among its properties it is very important to underline the excellent impact proofness in this range of temperature from - 40°C to 145°C.

MECHANICAL PROPERTIES

	ASTM	DIN	Units	Value
Yield strength	ASTM D 638	DIN 53455	MPa	60
Ultimate tensile strenght	ASTM D 638	DIN 53455	MPa	70
Yield elongation	ASTM D 638	DIN 53455	%	7
Breaking elongation	ASTM D 638	DIN 53455	%	120
Hardness H358/30	-	DIN 53452	MPa	95
Rockwell hardness	ASTM D 785	-	-	M70

THERMAL PROPERTIES

	ASTM	DIN	Units	Value
Softening temperature Vicat VST/B/120	ASTM D 1525	-	°C	153
Temperature of deformation underload 1,82MPa	ASTM D 648	DIN 53461	°C	138

OTHER PROPERTIES

	ASTM	DIN	Units	Value
Specific weight	ASTM D 792	DIN 53479	-	1,20
Water absorption, 24 hours	ASTM D 570	-	%	0,10
Transmission of light	ASTM D 1003	-	%	88-89

4° PART*

TECHNICAL DATA SHEET OF GASKETS: G001, G 65, G 59

TECNOPRO 235 MATERIAL: MECHANICAL AND PHYSICAL PROPERTIES

	Testing method	Units	Value
Specific weight	ISO R 1183	gr/cm ³	1,42
Hardness	ISO 868		79,5
Coefficient of elasticity	ISO 178	N/mm ²	2700
Ultimate tensile stress	ISO 527	kg/cm ²	360
Breaking elongation	ISO 527	%	110
Temperature Vicat 5 Kg	ISO 306	°C	76
Yield point	ISO 527	kg/cm ²	390

SIGIPLAST 101 MATERIAL: MECHANICAL AND PHYSICAL PROPERTIES

	Testing method	Units	Value
Specific weight	ASTM D 792	gr/cm ³	1,35
Hardness	ASTM D 224	Shore A	62
Ultimate tensile stress	ASTM D 638	kg/cm ²	130
	ASTM D 638	%	400
Working maximum temperature	-	°C	70
Stiffening temperature	ASTM D 1043	°C	- 48

TECNOPRO 208 MATERIAL: MECHANICAL AND PHYSICAL PROPERTIES

	Testing method	Units	Value
Specific weight	ASTM D 792	gr/cm ³	0,88
Hardness	ASTM D 224	Shore D	35
Yield point	ASTM D 638	MPa	9
Yield elongation	ASTM D 638	%	55
Ultimate tensile stress	ASTM D 1525	MPa	11
Breaking elongation	ASTM D 256	%	460
Coefficient of flexion elasticity	ASTM D 790	MPa	350

Material composition (Gaskets): G 001 TECNOPRO 235 MATERIAL , SIGIPLAST 101,
G65 TECNOPRO 208 MATERIAL, **G 59** TECNOPRO 235 MATERIAL, SIGIPLAST 101

5° PART*

TECHNICAL DATA SHEET OF EXTRUDED PVC BARS FOR THERMAL BREAK (GTT, GTT1)

MECHANICAL AND PHYSICAL PROPERTIES

	Testing method	Units	Medium value	Limit value
Specific weight	ASTM D 792	g/cm	1.49	From 1.38 to 1.58
Coefficient of linear thermal expansion	ASTM D 696	cm/cm °C	4.8-10/5	-
Vicat point	ISO	°C	83.7	>80
Yield point	ASTM D 638	MPa	42	>44
Ultimate tensile stress	ASTM D 638	MPa	39	-
Breaking elongation	ASTM D 638	%	110	>120
Flexion proofness	ASTM D 790	MPa	84	-
Rockwell hardness	ASTM D 785	-	104	-
Impact proofness	UNI 8772	J	3	>3

* The technical data sheets have only an illustrative purpose and they do not substitute the official certificates of the products. The official certificates will be issued on request for single order. We declare, in fact, that some values could change according to different lots of good earlier worked.

Pannelli in misure standard e finiti a misura.

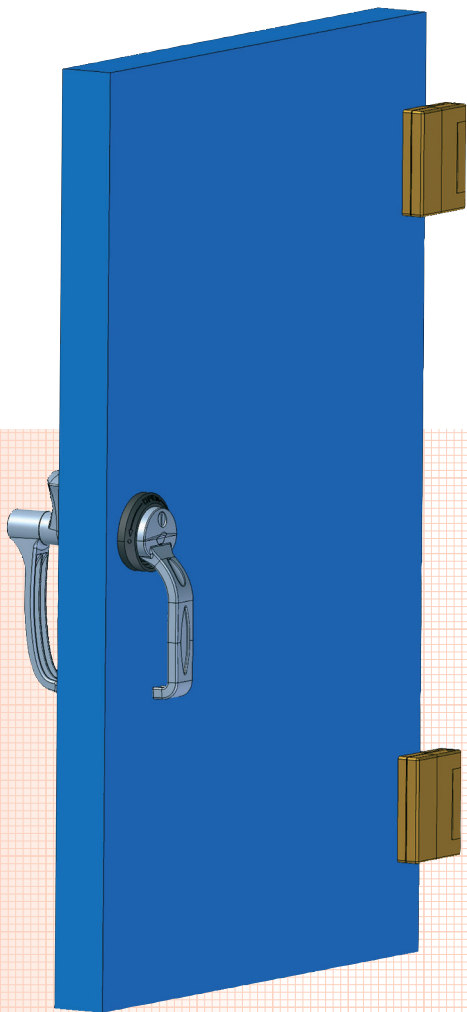
Standard size and pre-finished panels in aluminium and steel.

Panneaux avec mesures standard et avec mesures finies.

Paneles estándar y a medida.

Standardgröße end einbaufertige Paneelen aus Aluminium und Stahl.

标准大小盘区和盘区完成对大小。



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03

I pannelli disponibili sono:

PTM: I pannelli di tamponamento macchina sono composti da due lamiere di alluminio preverniciate Silver e da un'anima di polistirolo; unitamente ai pannelli viene venduto il profilo di alluminio che ne racchiude il perimetro (P 191).

La misura standard è 1000x2000x25 mm.

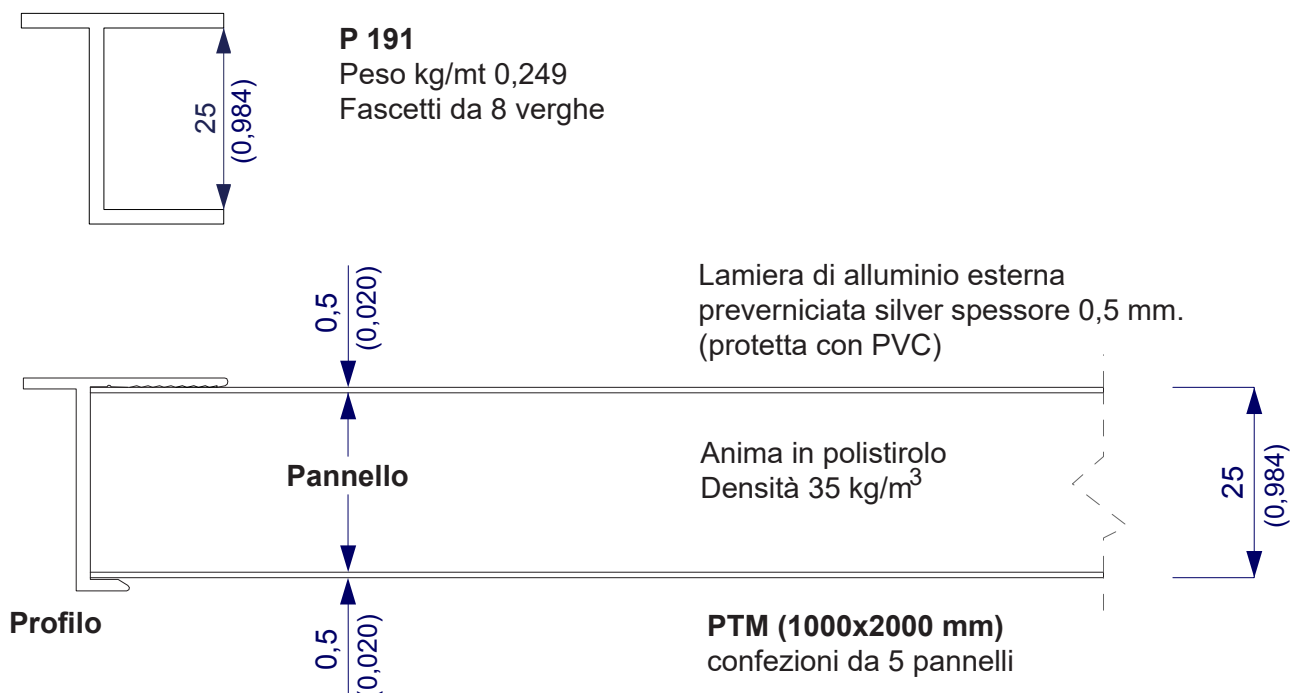
PANEL: su richiesta forniamo pannelli in poliuretano espanso nella misura standard 1250x3020 mm a spessore variabile. Questi pannelli vengono realizzati con lamiere di ferro o di alluminio in diverse colorazioni e sono disponibili delle guarnizioni di plastica per rifinirne il perimetro.

I pannelli di tamponamento macchina e quelli in poliuretano espanso sono facilmente lavorabili al fine di ottenere le misure necessarie dei pannelli per le UTA.

PANEL-B: sempre su ordinazione si realizzano pannelli finiti a misura con lamiera presso-piegata e con anima di poliuretano espanso o lana di roccia, prodotti con vari tipi di lamiere e in diversi tipi di colorazioni.

I certificati dei pannelli con tutte le caratteristiche tecniche sono disponibili presso i nostri uffici: non esitate a contattarci per richiederli.

PANNELLI IN POLISTIROLO CON LAMIERA DI ALLUMINIO COLORE SILVER
DIM 1000x2000x25 mm



CARATTERISTICHE TECNICHE

Reazione al fuoco:	autoestinguente omologato Classe 1 ASTM 2962/68
Temperatura di impiego:	- 40° C + 85 °C
Resistenza all'umidità:	assorbimento acqua per capillarità, nessuna
Misura del livello di rumore:	dB 72 ISO 717

PANNELLI IN POLIURETANO CON LAMIERA IN FERRO ZINCATO VERNICIATO
DIM 1250x3020 x 25,45,50 mm
Confezioni da 5 pannelli



PVC PANEL 25
PVC PANEL 45
PVC PANEL 50

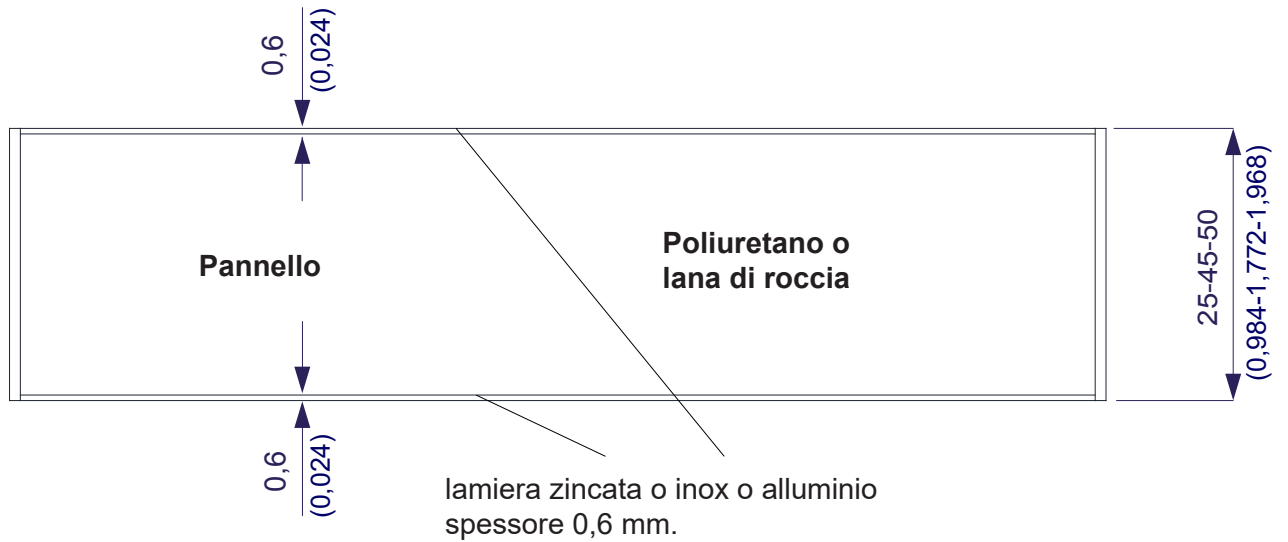
Confezioni da 10 barre - 62 mt.

Sono disponibili altre dimensioni di pannelli

PANNELLI IN POLIURETANO CON LAMIERA IN FERRO ZINCATO E PLASTIFICATO
PRESSOPIEGATI FINITI A MISURA

PANNELLO SINGOLA PIEGA

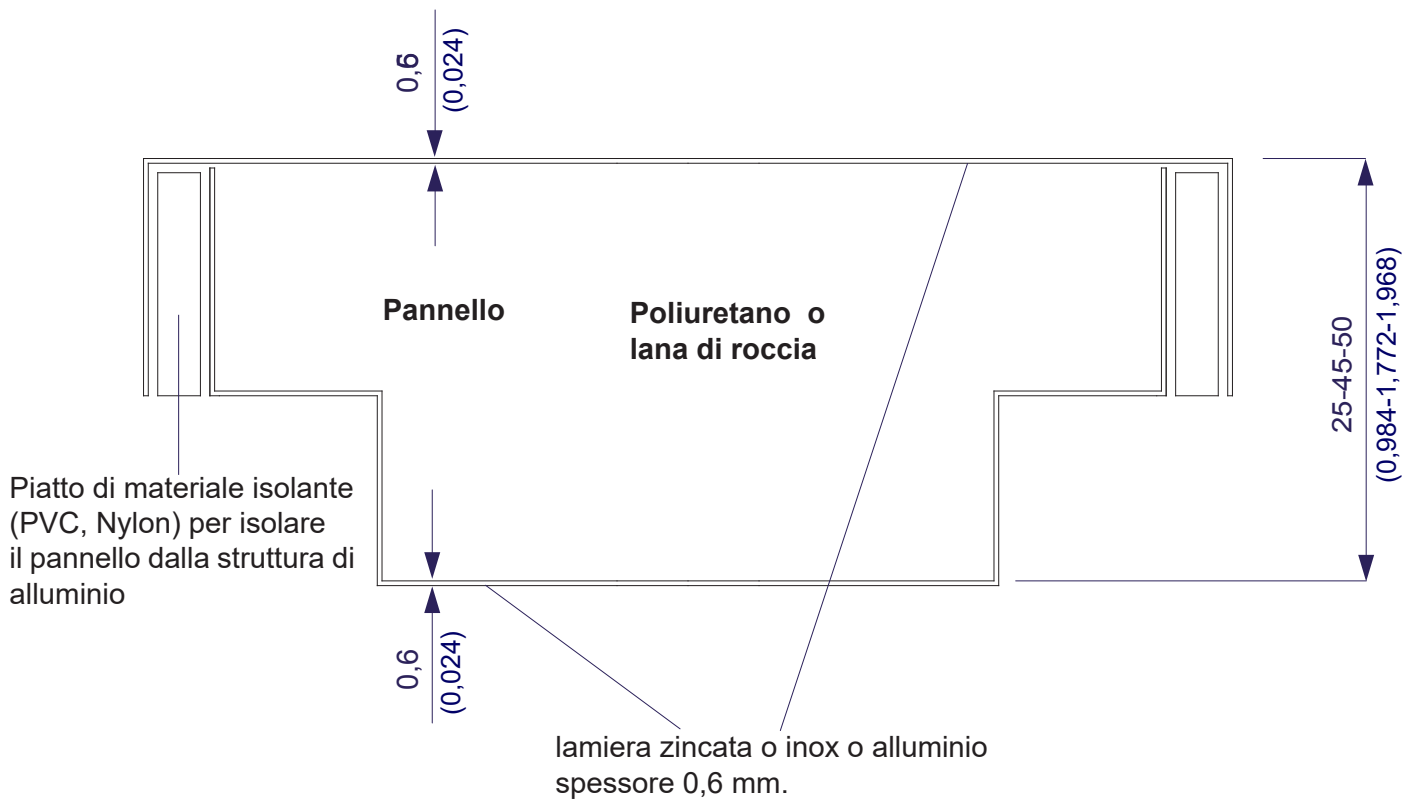
PANEL-B



PANNELLO DOPPIA PIEGA

PANEL-B

confezioni da 5 pannelli



Sistema modulare composto da profili di alluminio ed accessori per il montaggio delle strutture, sistema guarnizione pannelli.

Modular frame system (aluminium profiles and corner joints)
Panel gasket system.

Système modulaire composé par profiles en aluminium et accessoires pour le montage des structures, système de caoutchouc pour panneaux.

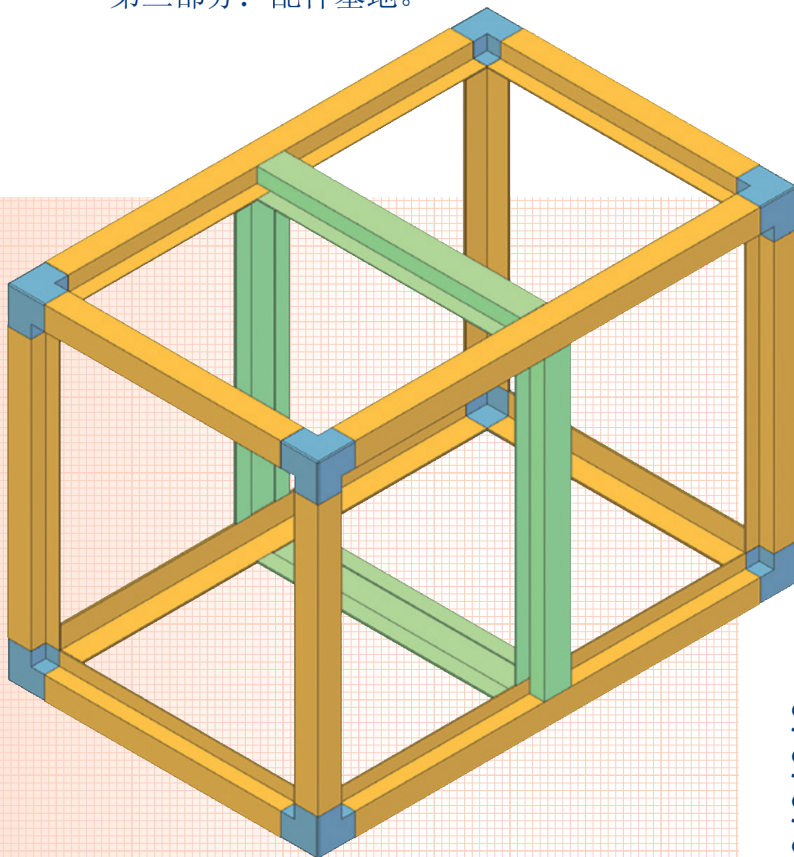
Sistema modular compuesto por perfiles de aluminio y accesorios para el montaje de las estructuras, sistema de burlete para paneles.

Modularer Systembaukasten für Rahmenkonstruktionen (Aluminiumprofile und Eckverbindungen), Paneel Dichtungssystem.

模块化的框架体系。

（铝型材和角落关节）

- 第一部分：钝节概况。
- 第二部分：四方形的杆节概况。
- 第三部分：配件基地。



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04

MODULAR FRAME SYSTEM MADE UP OF ALUMINIUM PROFILES AND ACCESSORIES FOR THE ASSEMBLY OF STRUCTURES, PANEL GASKET SYSTEM

PANEL GASKET SYSTEM

The patent pending gasket system "GS-20 & G002" guarantees a perfect air tightness on the whole surface between panel and frame. The angular gasket GS-20 is mounted on the corners of the structure and it hermetically seals the air passage between profile and corner, while the linear gasket G002 is mounted on the flanges of profiles. Their combined use ensure, beside a high air tightness, smooth and internally radius surfaces inside the unit, so the AHU meets hygiene standard requirements. (L1 result according to UNI EN 1886).

PART 1: BLUNTED PROFILES

The series of blunted profiles do not only provide a sturdy structure but also a pleasing finish. You will notice that a number of profiles have ridges on the external surface: that serve to prevent scratches or bruises during movement.

All the corner joints of this series are in nylon reinforced with fibreglass except AS 70-50 and AS 40-25. These corners are very strong and easy to assemble.

PART 2: SQUARE PROFILES

The square section profile is the most comprehensive range and it is used worldwide. Nylon and aluminium corners are available for all profiles of this series, except for profiles 20-10, 20-18, 70-25 and 70-50 which are only available in aluminium.

The corners are in nylon reinforced with fibreglass and die-cast aluminium.

The aluminium corners come with nylon fittings to improve the tight fit properties of the profiles. The sanded finishing, obtained by sandblasting, blends well with the anodised finish of the profile giving the unit a nice appearance.

Another advantage of this corner is its shape as the solid appearance of the corner unit (with no open gaps) will enhance the water proofness of the whole profile, thus keeping the unit clean, safe and compliant with Health & Safety requirements. The whole structure is therefore washable.

Two omega profiles are available in this series: the "classic" with an internal groove and the "smooth" without groove. The "smooth" profile is a little lighter, thus more competitively priced. The grooveless shape of this profile allows air, water and dirt to slip away from the unit and the internal panels, thus making it suitable for use in areas where Health & Safety requirements have to be met.

You will see that a number of profiles are labelled BAS which may be used to construct the base, if you need to do so. Please see part 3 below for more information.

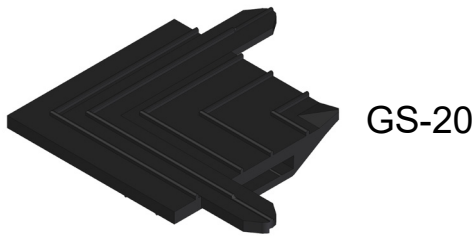
PART 3: BASE ACCESSORIES

The profile series 30-25, 40-25, 50-25, 50-45 and 70-50 include "base profiles" which are the ideal solution to build the base quickly, easily and economically. The "base profile" is intended to be used as a part of the standard frame, thus avoiding the need for cutting additional aluminium or steel profiles. To complete and strengthen the base of the structure, steel corners (one internal, one external) are used on the four corners of the base which have holes for rivets or screws. These angles are black painted and they also have two 45 mm holes to facilitate lifting of the structure by means of belt or metal tube.

The base profile BAS 100/30 TL, with its corner A 100, are very useful to build sturdy base profiles in a quick and easy way. Their shape expresses a modern and original design but also guarantees important technical properties.

Aluminium feet are also available (A 100 / A 100 FS) that are directly connected to the frame of the structure; the adjustable version, with a polyamid foot base, allows you to lift the structure up to 230 mm.

Patent pending gasket system **GS-20 & G002**



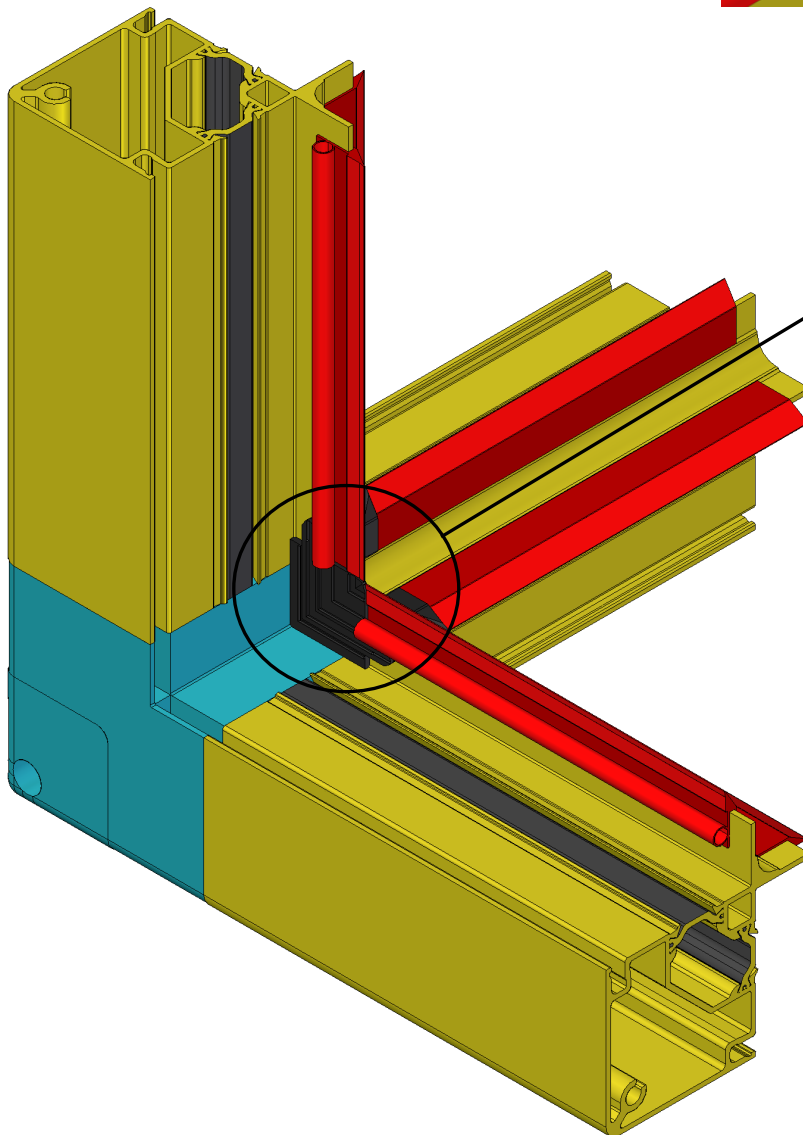
HIGHLIGHTS:

- Hermetic seal between aluminium profiles and corners.
- Airtight system seal guaranteed on the whole edge surface between panel and frame.
- Smooth surface between profiles /corners and panel for sanitisable AHU.
- Quick and easy installation.
- EPDM gasket with high elastic properties.
- Universal gaskets system for the whole range of profiles.
- Low cost components.
- Patent pending elements.



G002

GS-20



The gaskets fit perfectly one each other and they creating a continuous element which determines an absolute air tightness between the surface of the panel and the frame.

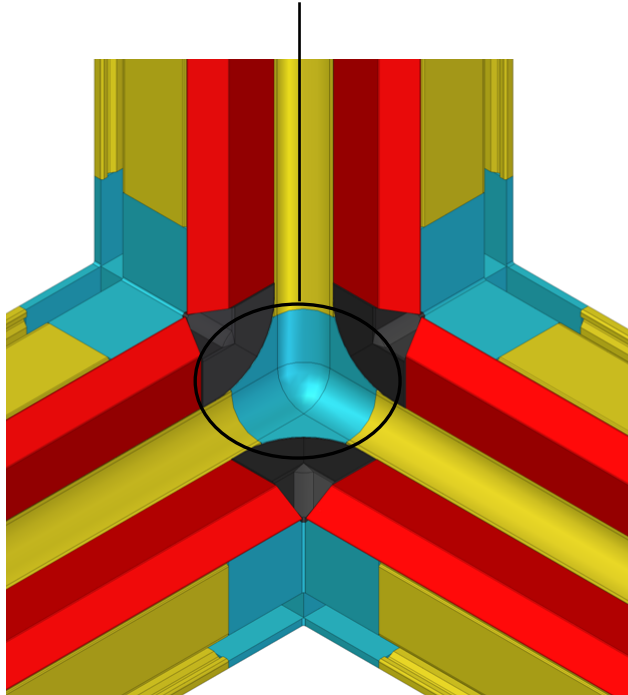
The angular gasket GS-20 is mounted on the corners of the structure to close and seal hermetically the passage of air between profiles and nylon or aluminium corners.

The linear gaskets G002 are mounted on the flanges of profiles and they fit perfectly with gasket GS-20; as a result you will have a single and continuous element (seal gasket) which ensures the air tightness on the whole edge surface between the panel and the frame.

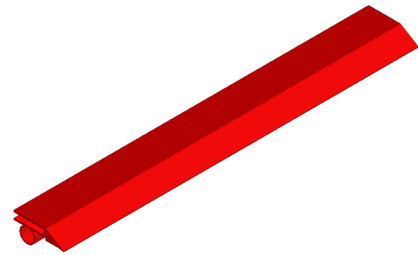
These two elements are practical and fast to assemble: they create a smooth and radius surface between the frame and the panel, so the AHU meets hygiene standard requirements.

The most important feature of these gaskets is that, once they are placed, they adhere perfectly to the flanges of the profiles and to the flanges of the corners (snap system); they create a stable system which works perfectly also in case of doors which are open and closed continuously.

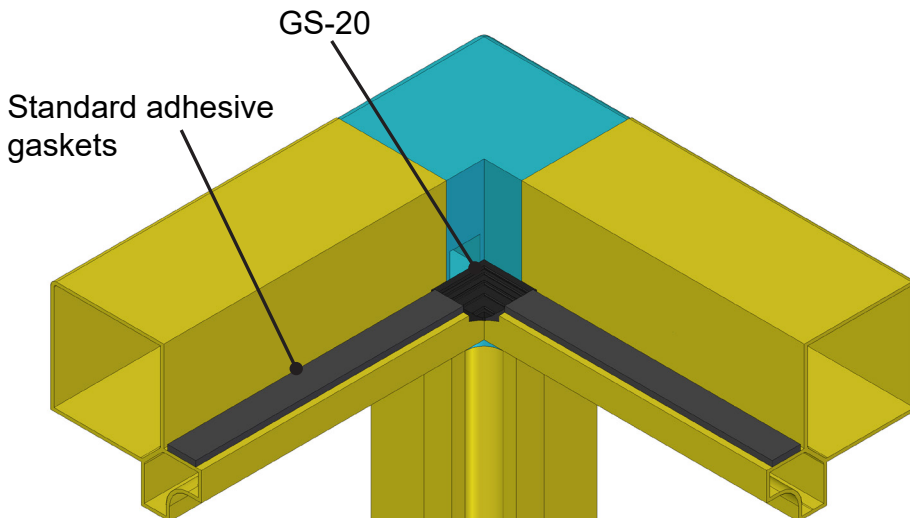
The GS-20 and G002 gaskets together create smooth and radius areas inside the unit, so the AHU meets the hygiene standard requirements.



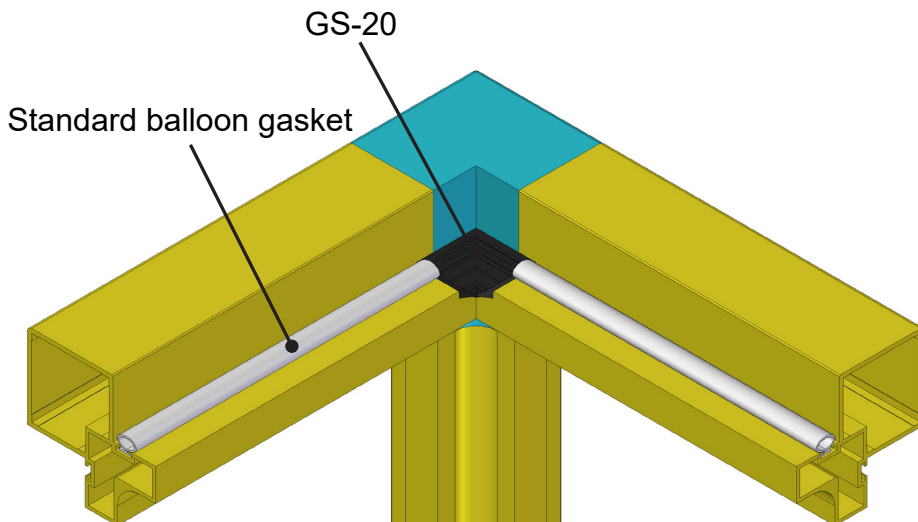
GS-20



G002

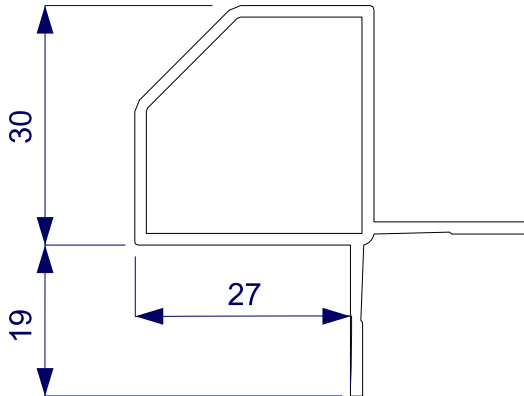


Application of angular gasket GS-20 together with standard adhesive gaskets.

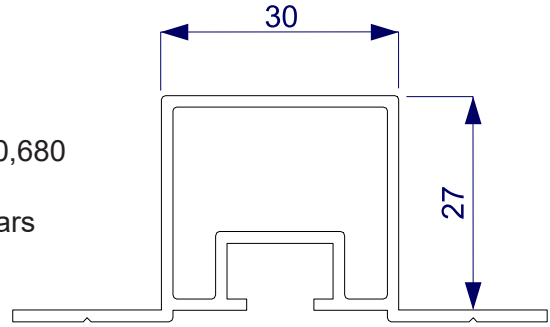


Application of angular gasket GS-20 together with standard balloon gasket

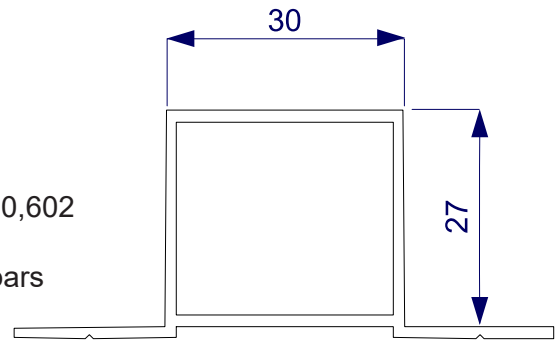
Part 1: Blunted profiles (section 30 panel 25 mm; nylon corner)



P 231-25
Weight kg/m 0,680
(lb/ft 0,457)
Bundle of 6 bars


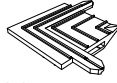


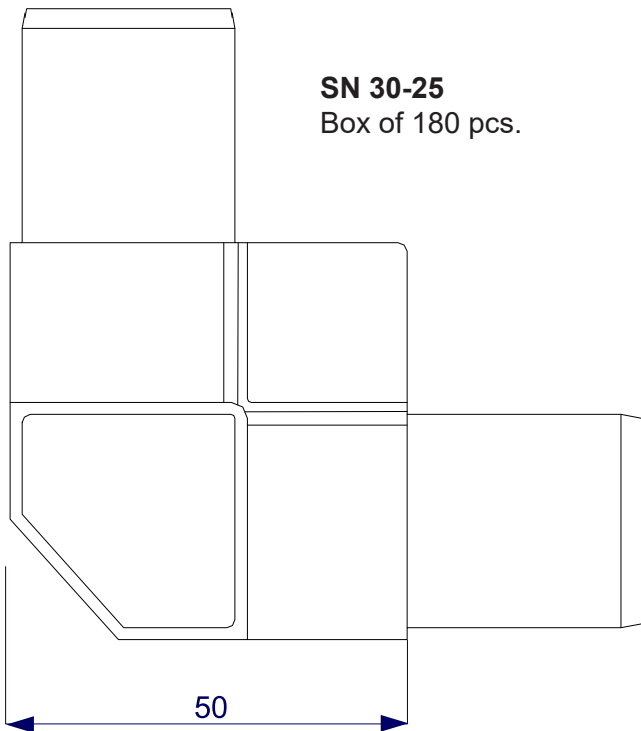
P 232-25
Weight kg/m 0,602
(lb/ft 0,404)
Bundle of 6 bars



S 1300-25
Weight kg/m 0,586
(lb/ft 0,394)
Bundle of 4 bars

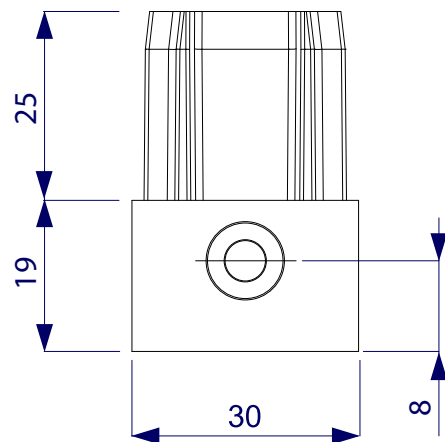
GASKET

 G002 Bundle of 100 mt.	 GS-20 Box of 1.000 pcs.
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SN 30-25
Box of 180 pcs.

NOT TO SCALE

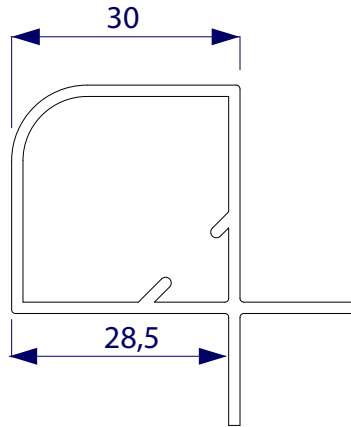


N 30 JP
Box of 400 pcs.

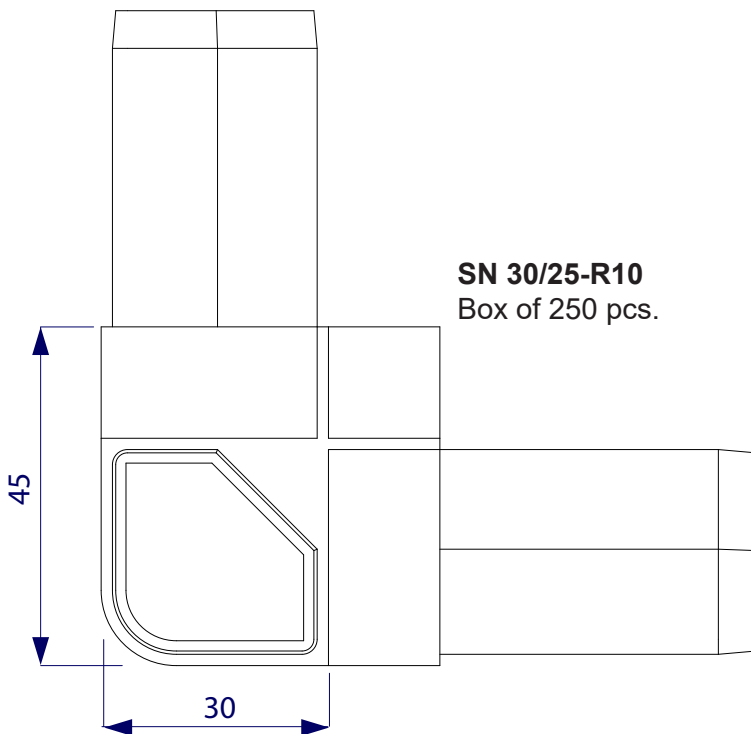


Plugs to cover the holes

Part 1: Blunted profiles (section **30** panel **25** mm; nylon corner)

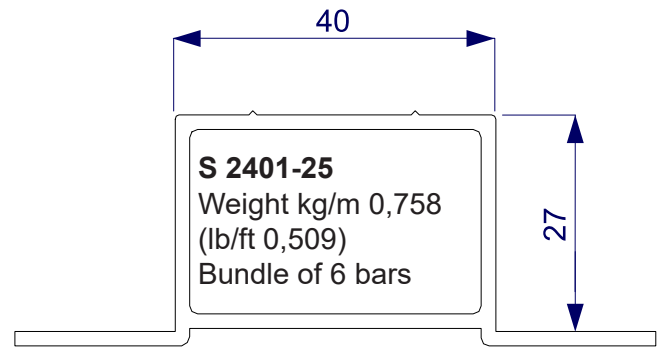
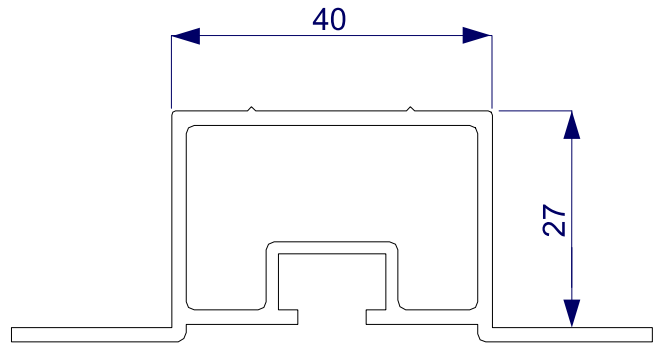
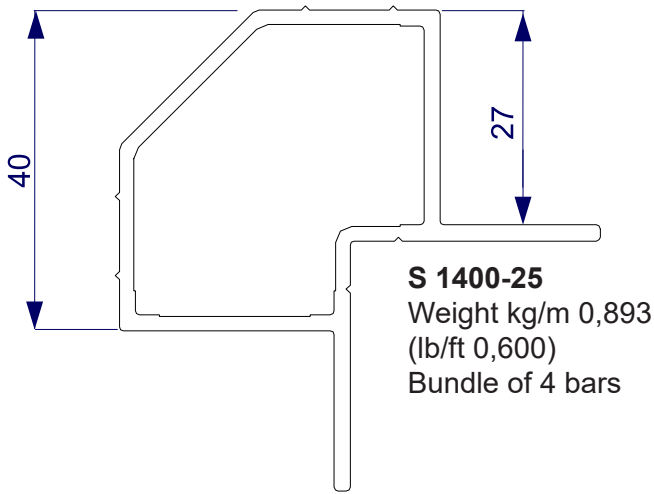


S 1300/25-R10
Weight kg/m 0,606
(lb/ft 0,407)
Bundle of 4 bars


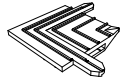


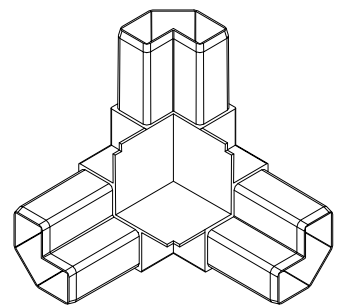
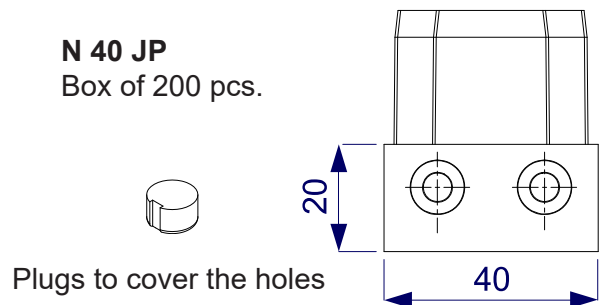
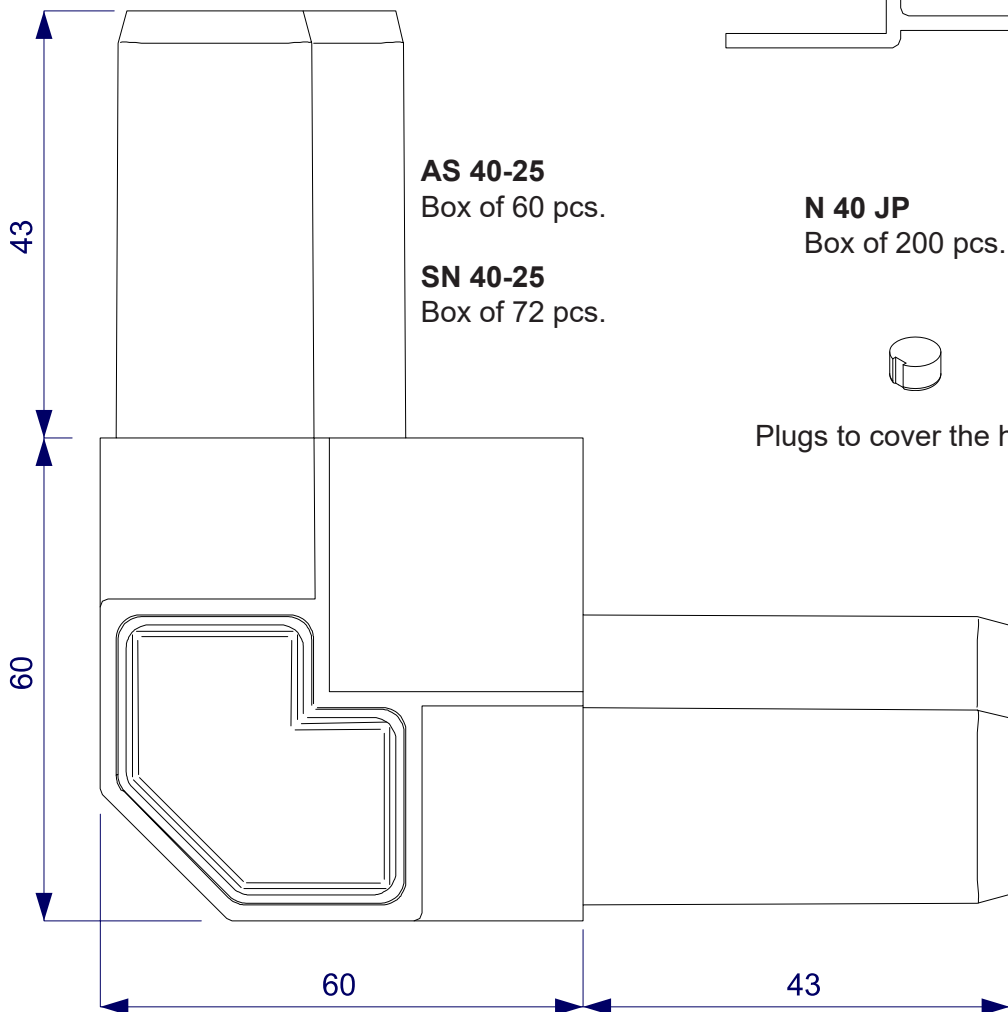
SN 30/25-R10
Box of 250 pcs.

Part 1: Blunted profiles (section 40 panel 25 mm; aluminium and nylon corner)



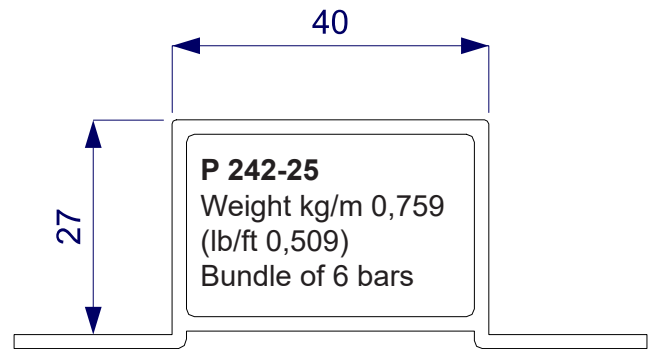
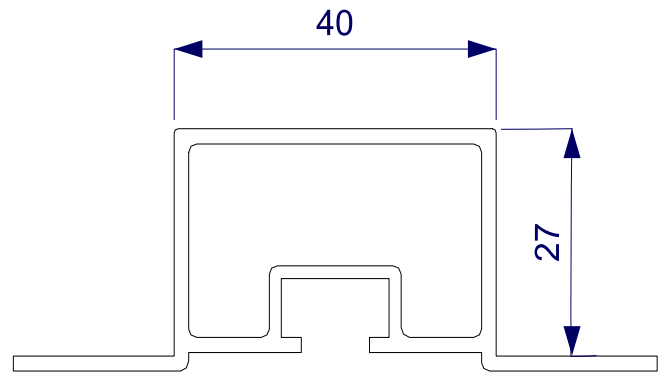
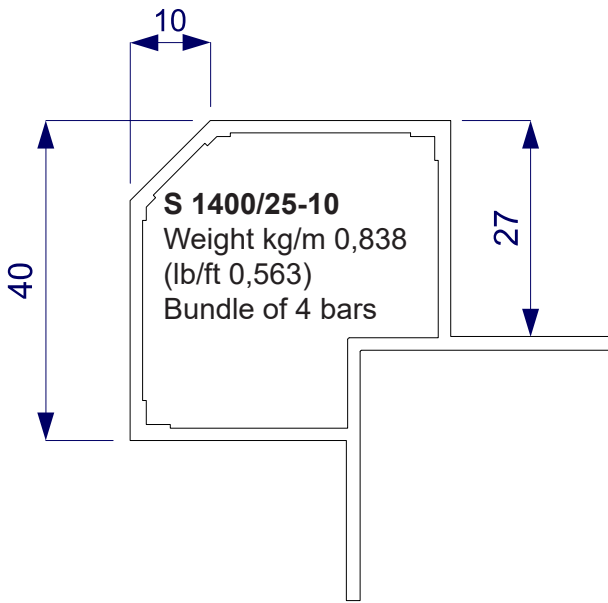
GASKET

 G002 Bundle of 100 mt.	 GS-20 Box of 1.000 pcs.
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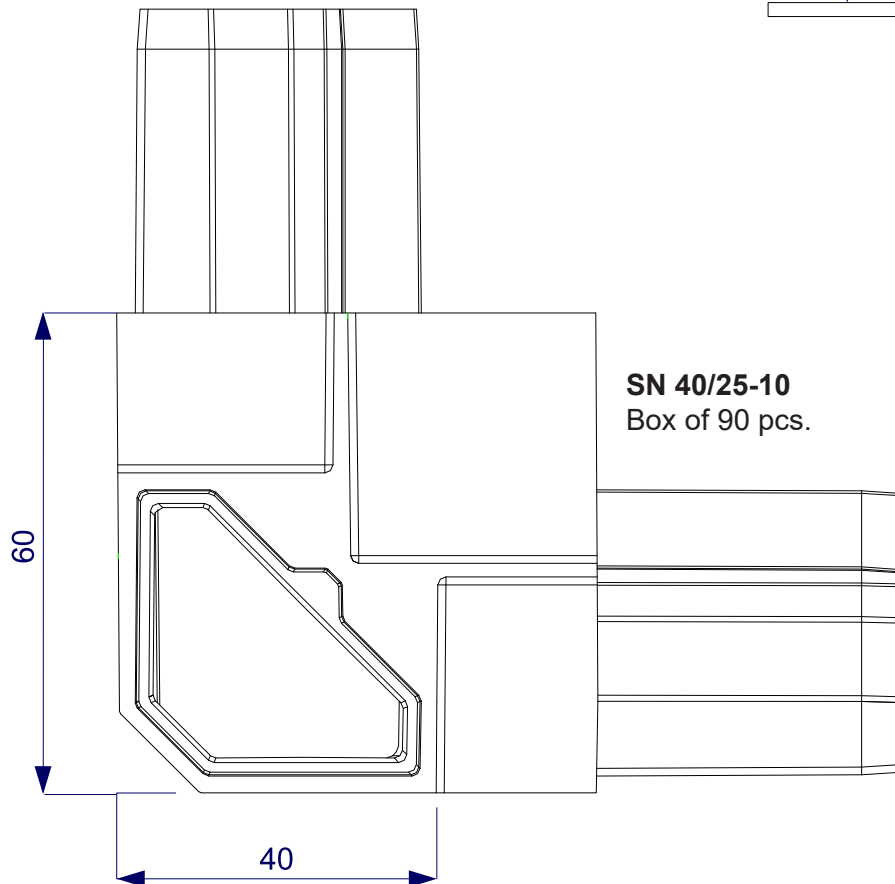
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Part 1: Blunted profiles (section 40 panel 25 mm; nylon corner)



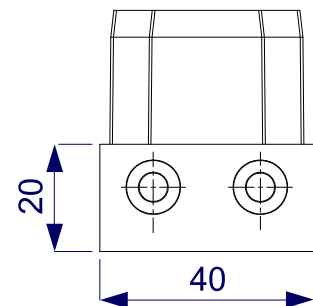
GASKET

 G002 Bundle of 100 mt.	 GS-20 Box of 1.000 pcs.
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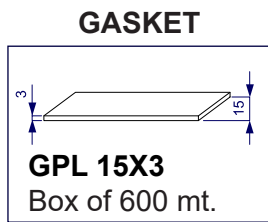
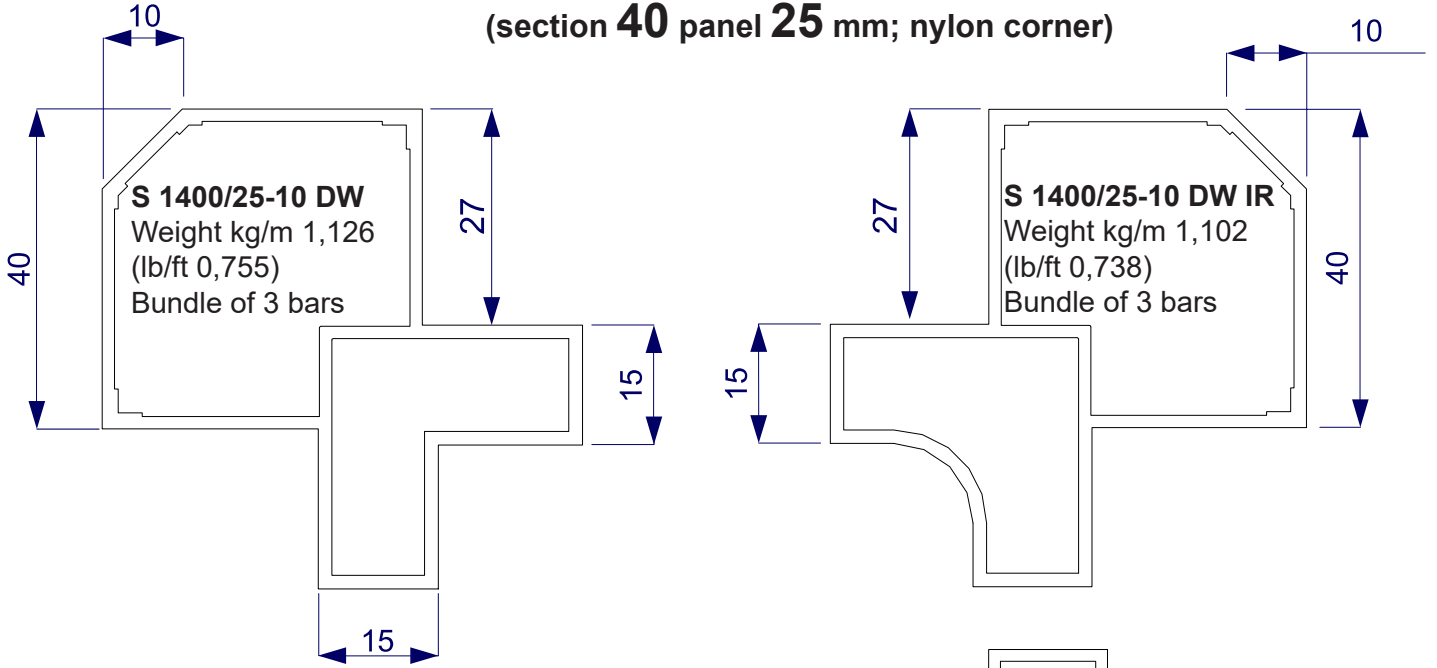
NOT TO SCALE

N 40 JP
Box of 200 pcs.

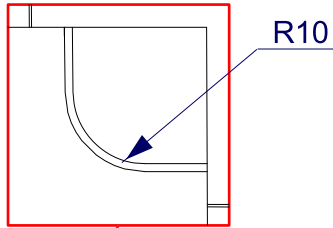


Plugs to cover the holes

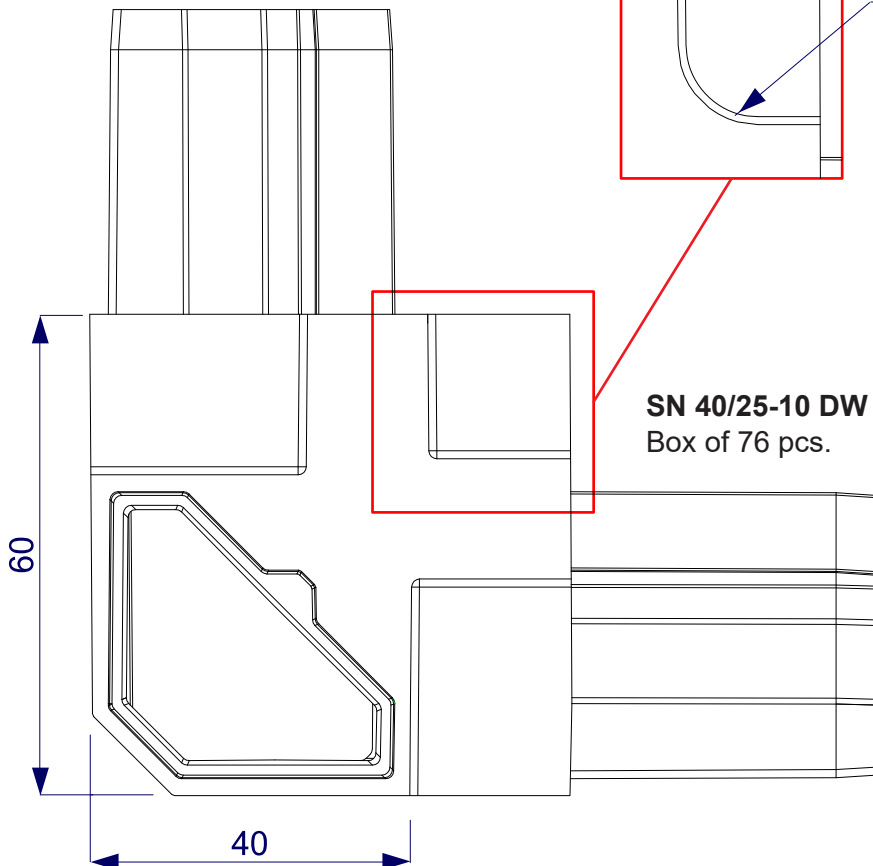
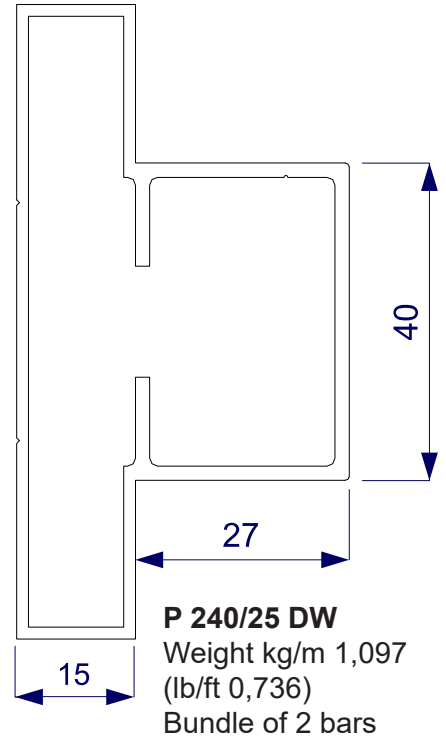
Part 1: Blunted profiles double wall to hide the screws
(section 40 panel 25 mm; nylon corner)



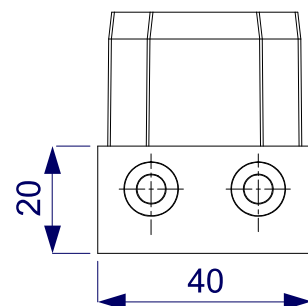
SN 40/25-10 DW IR
Box of 76 pcs.



SN 40/25-10 DW
Box of 76 pcs.

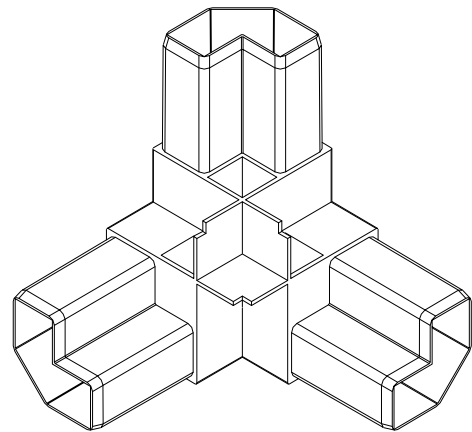
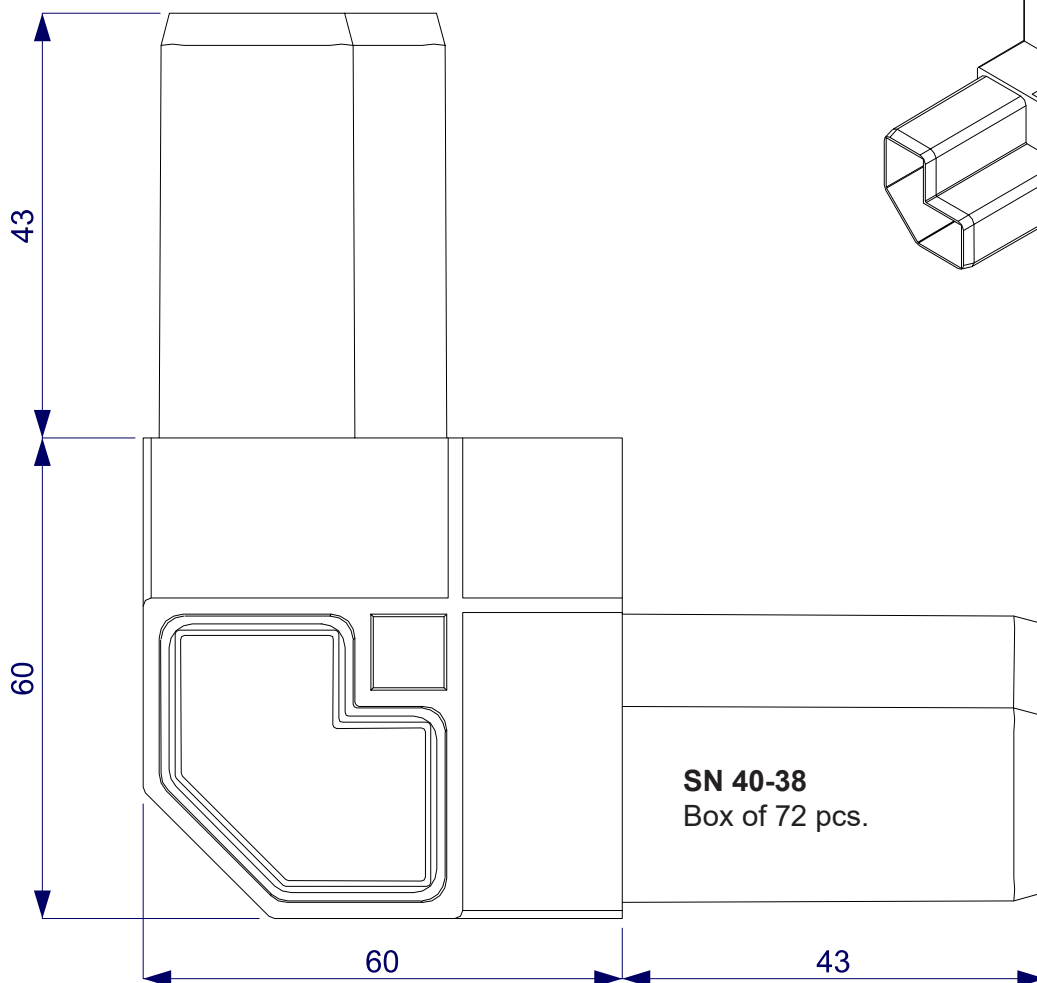
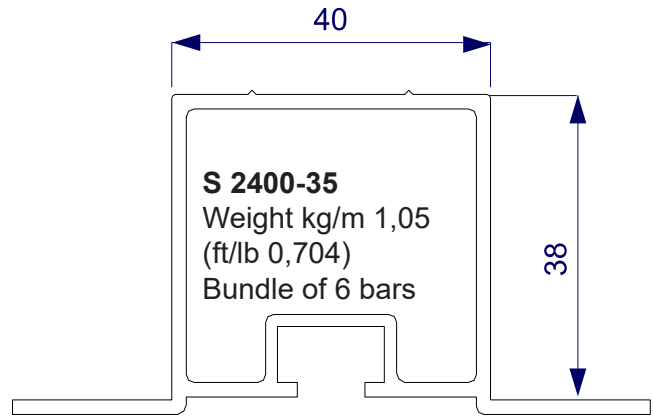
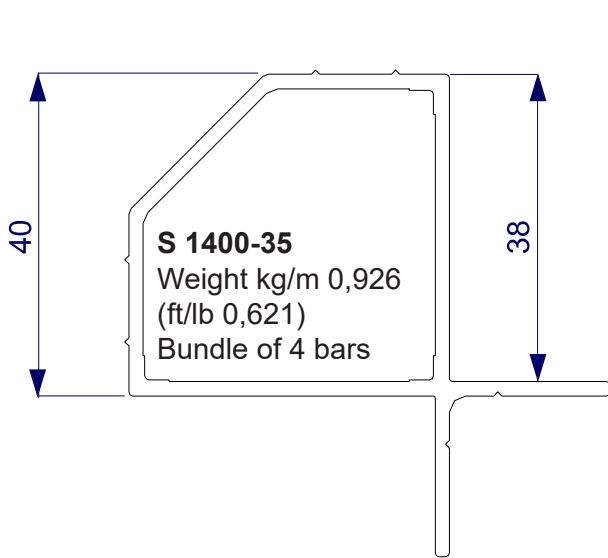


N 40 JP
Box of 200 pcs.

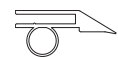


Plugs to cover the holes

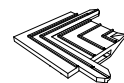
Part 1: Blunted profiles (section 40 panel 35 mm; nylon corner)



GASKET

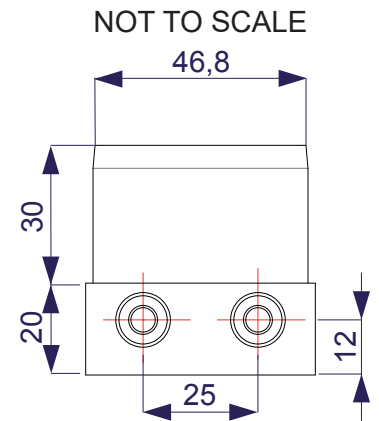
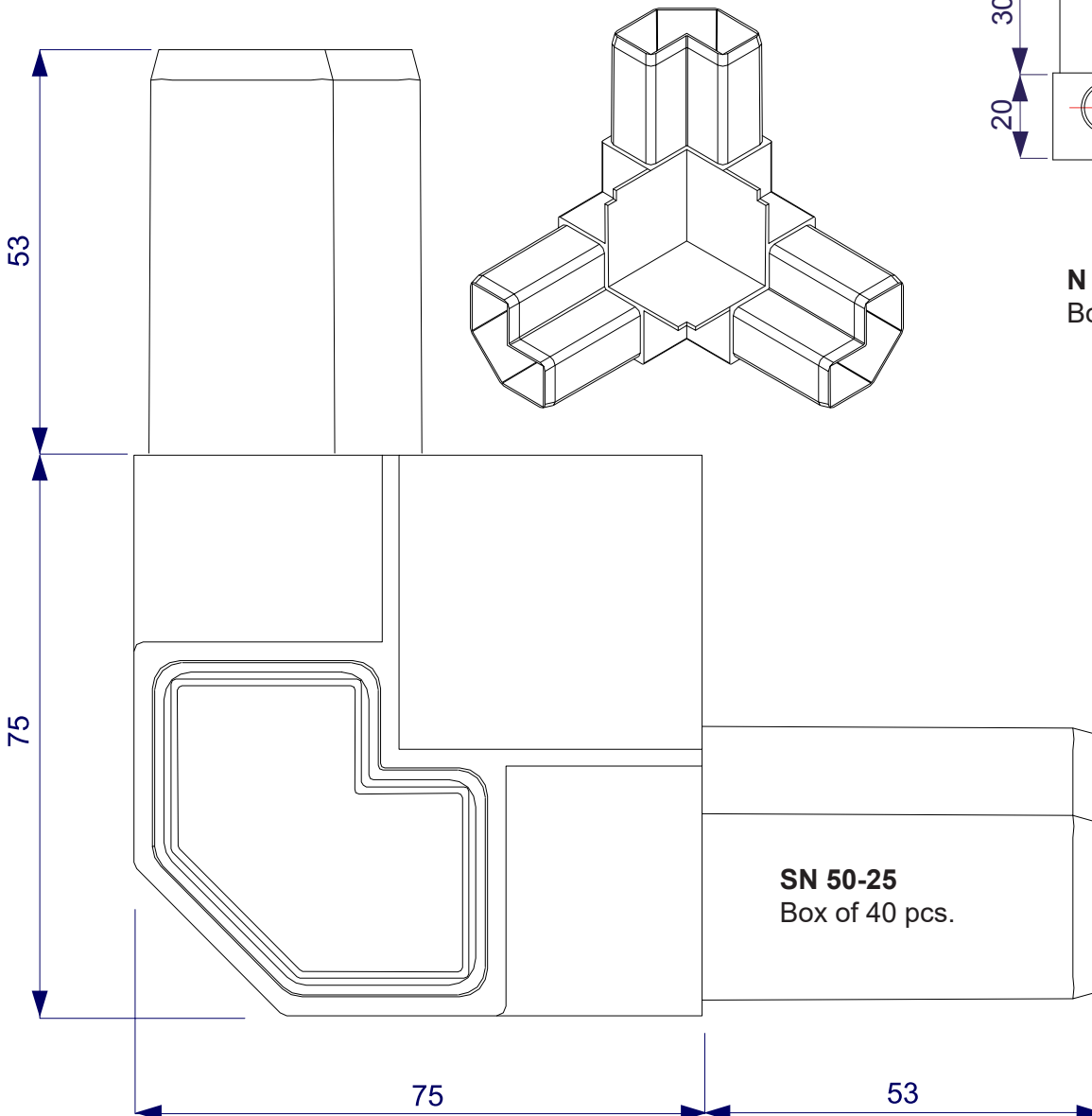
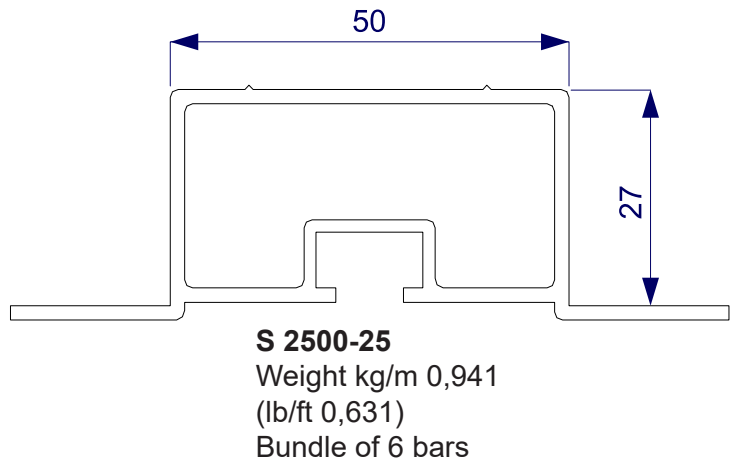
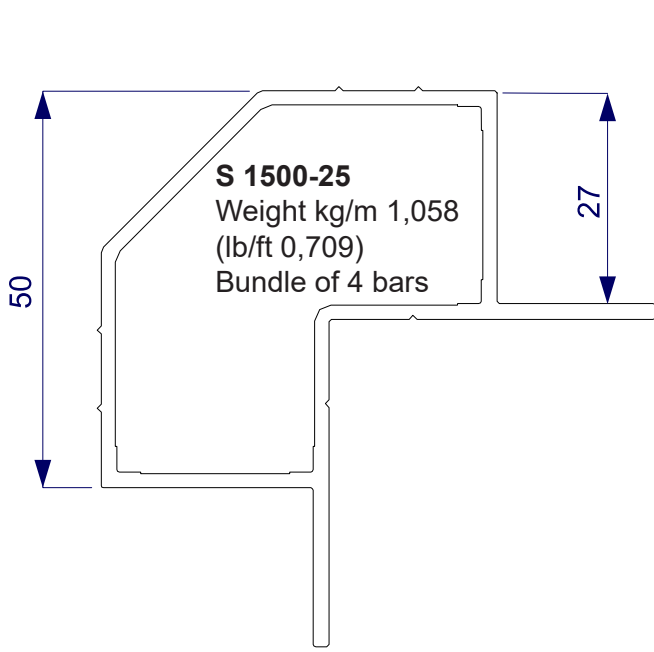


G002
Bundle of 100 mt.



GS-20
Box of 1.000 pcs.

Part 1: Blunted profiles (section 50 panel 25 mm; nylon corner)



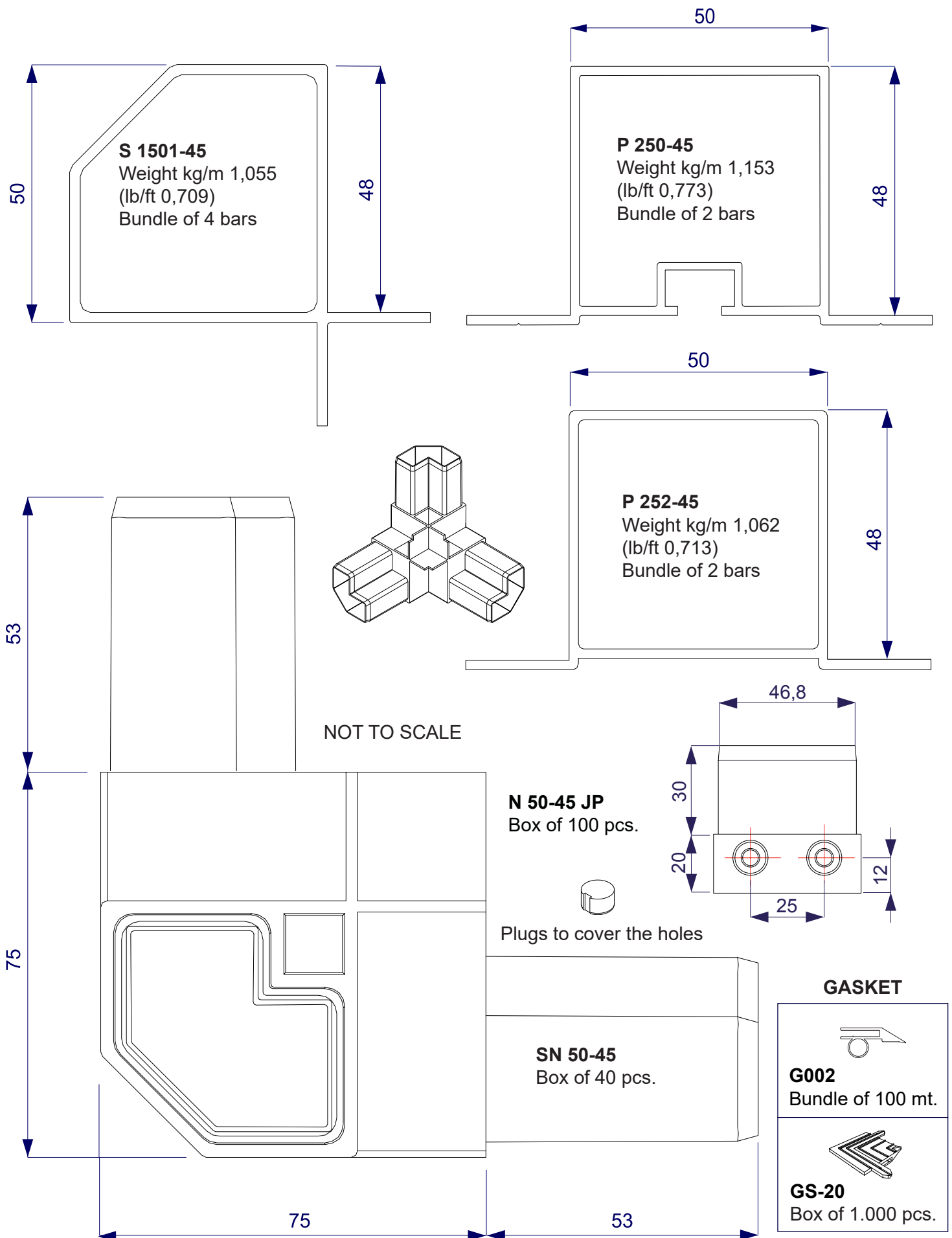
N 50-25 JP
Box of 100 pcs.

GASKET

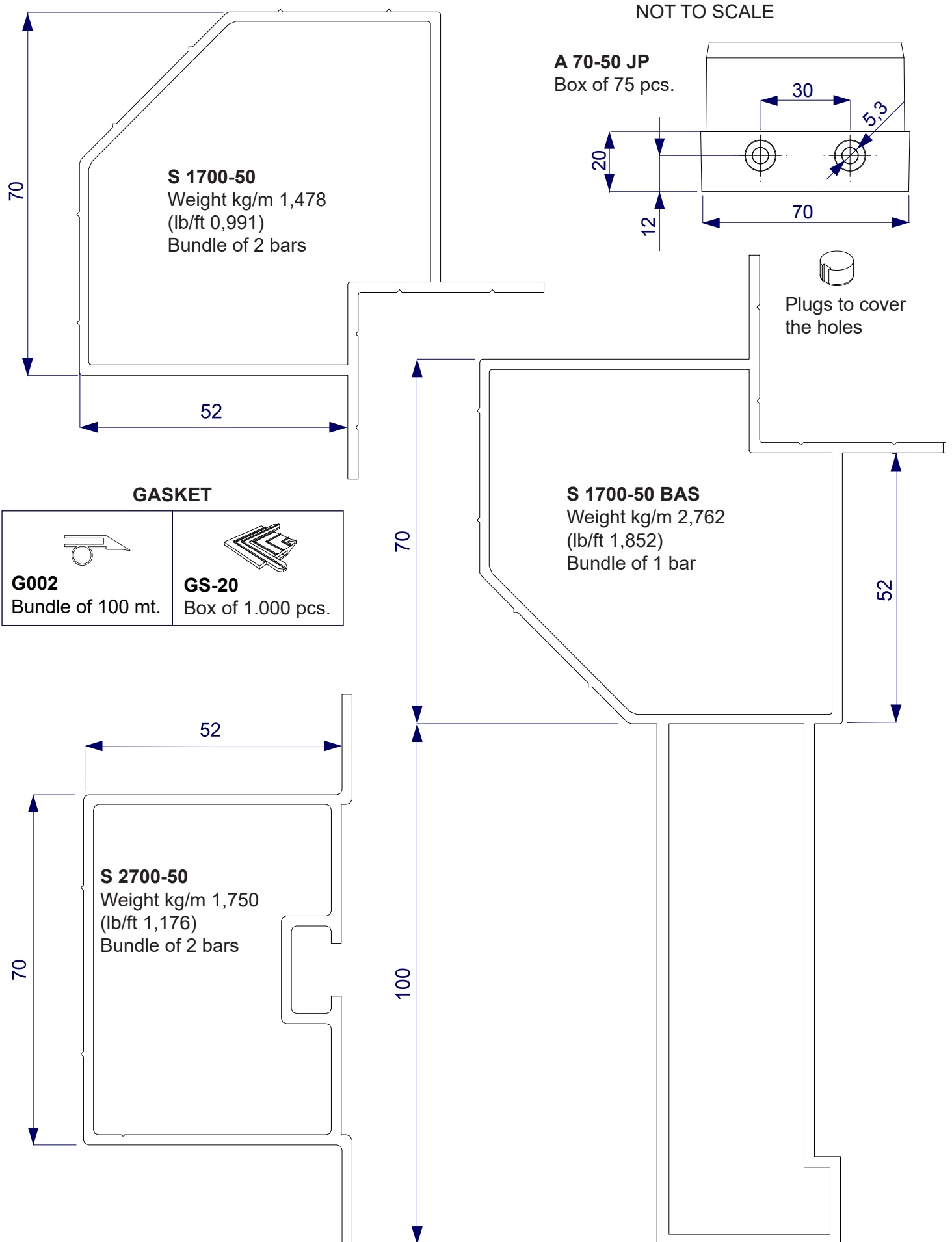
G002
Bundle of 100 mt.

GS-20
Box of 1.000 pcs.

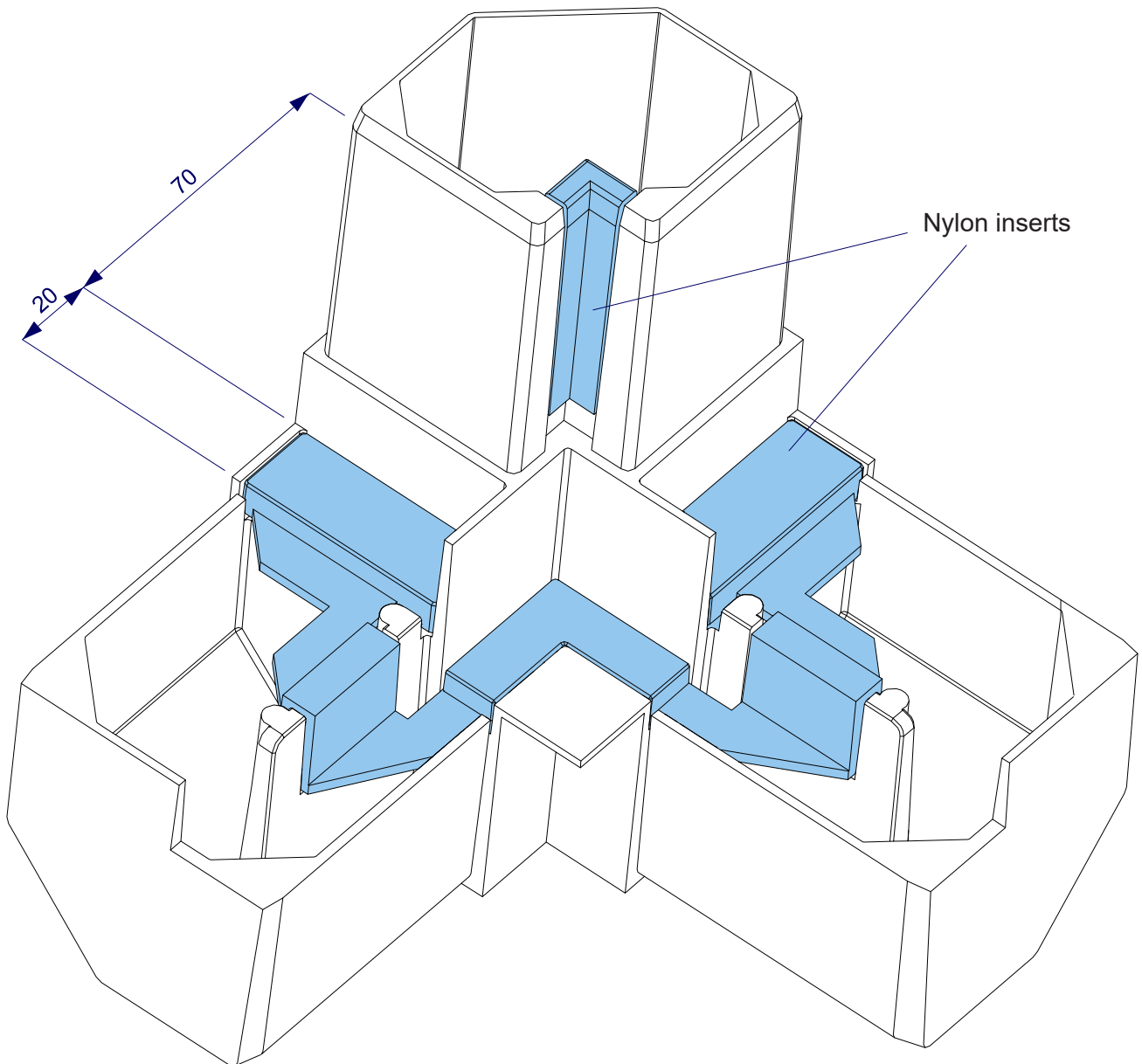
Part 1: Blunted profiles (section 50 panel 45 mm; nylon corner)



Part 1: Blunted profiles (section 70 panel 50; aluminium corner)

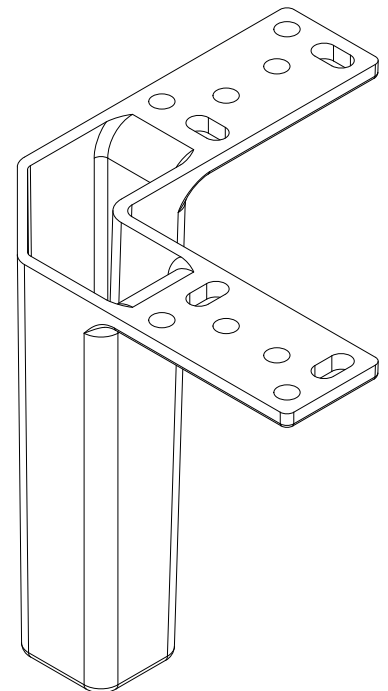
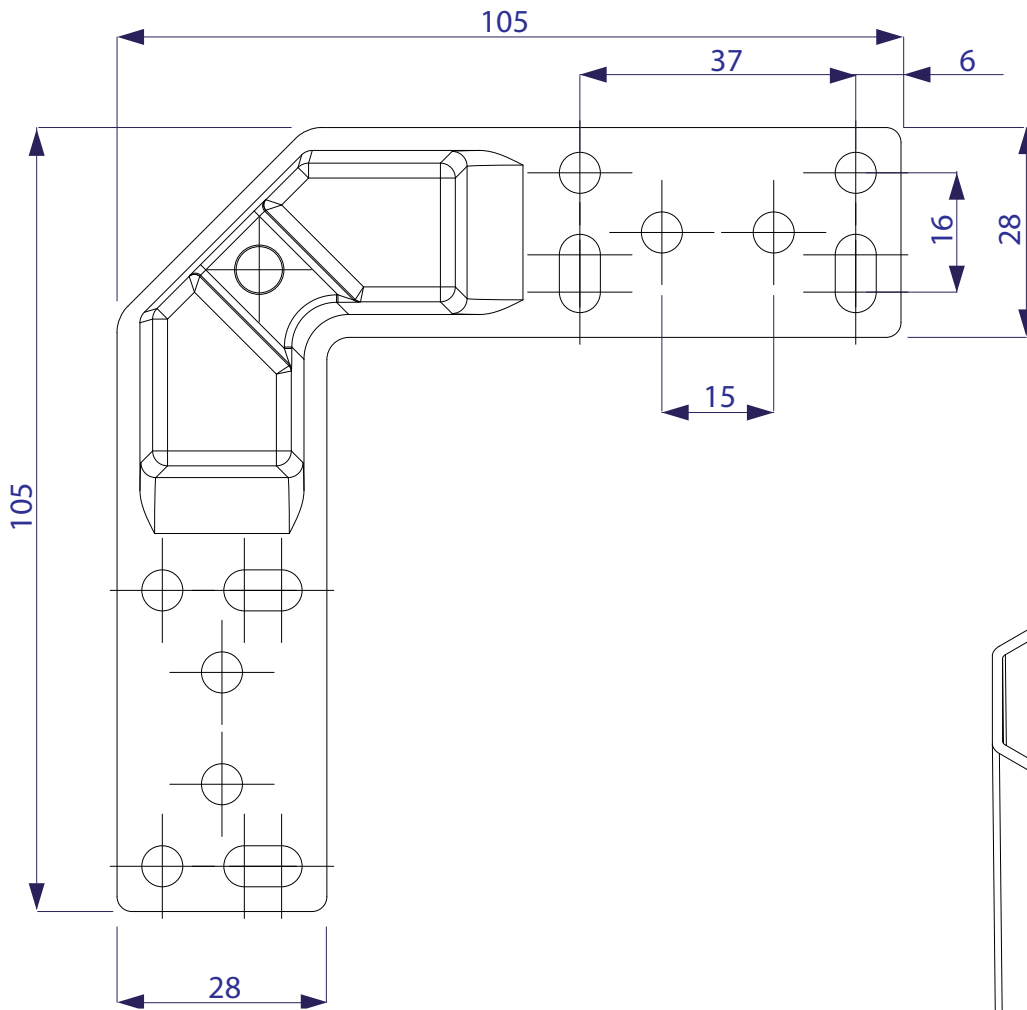


Part 1: 3D view of blunted aluminium corner (section **70** panel **50** mm)

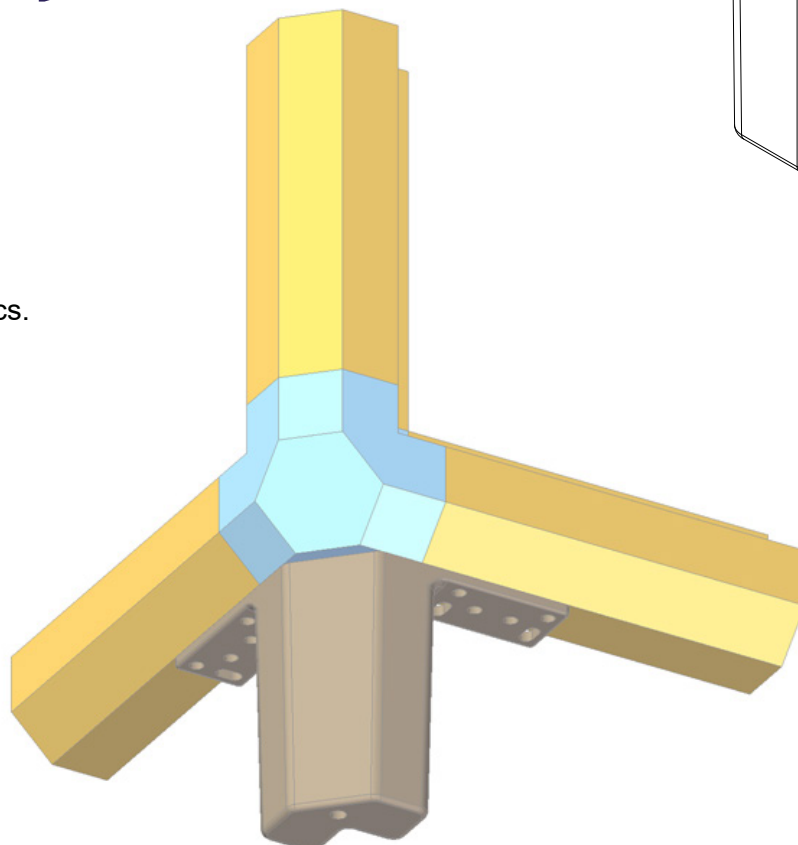


AS 70-50
Box of 16 pcs.

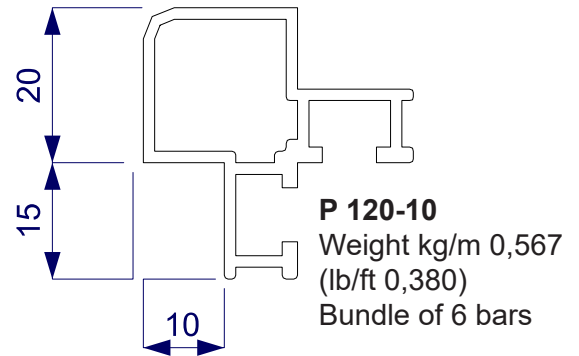
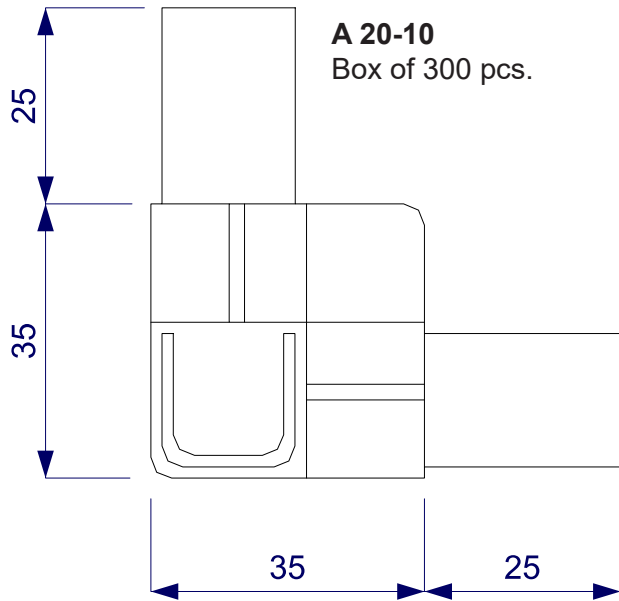
Aluminium foot



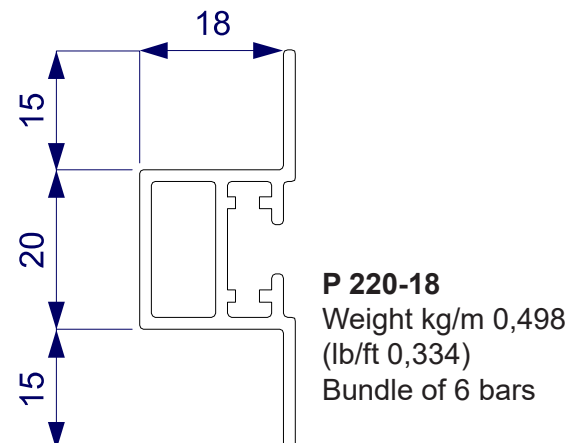
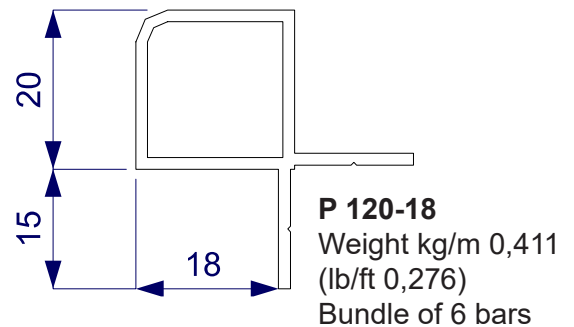
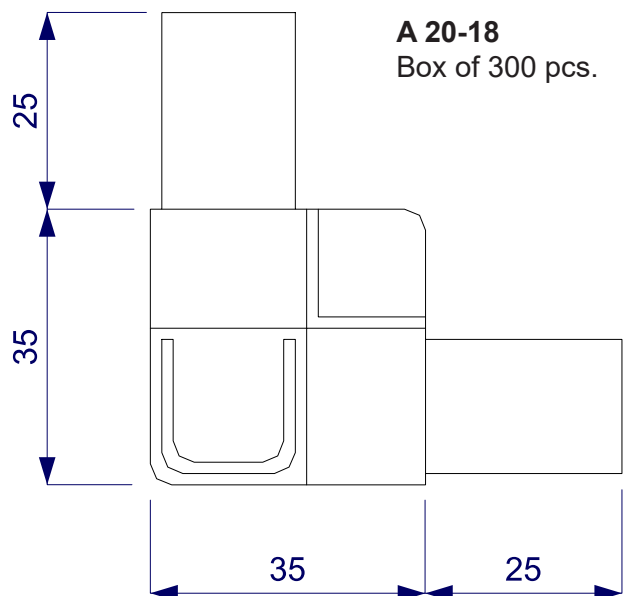
A 100FS
Box of 74 pcs.



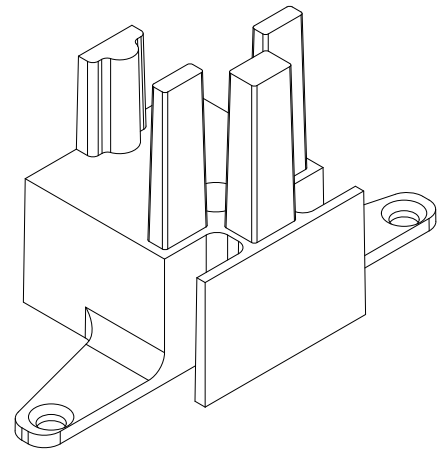
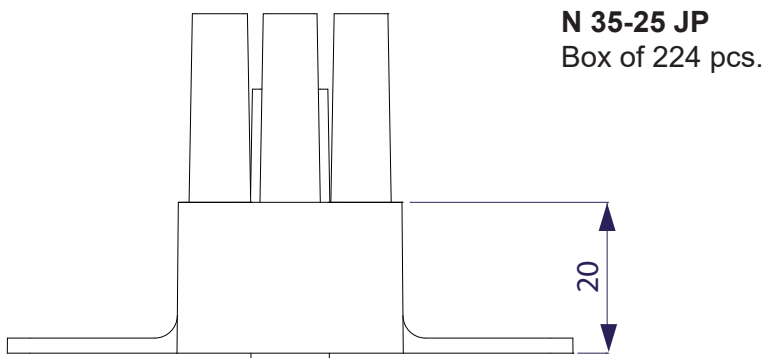
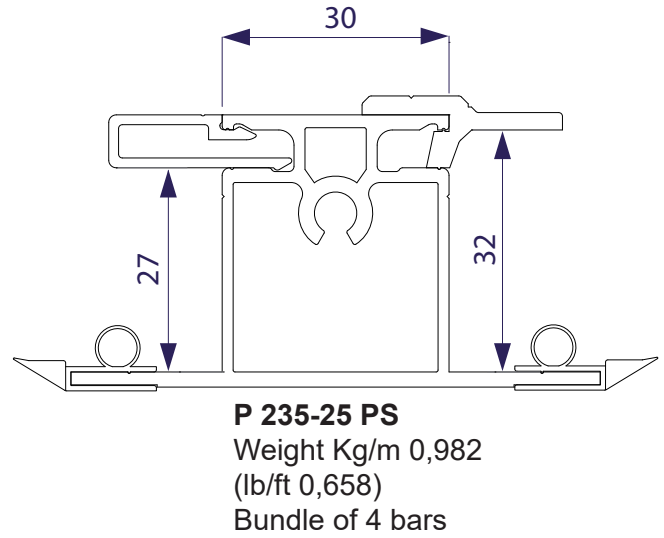
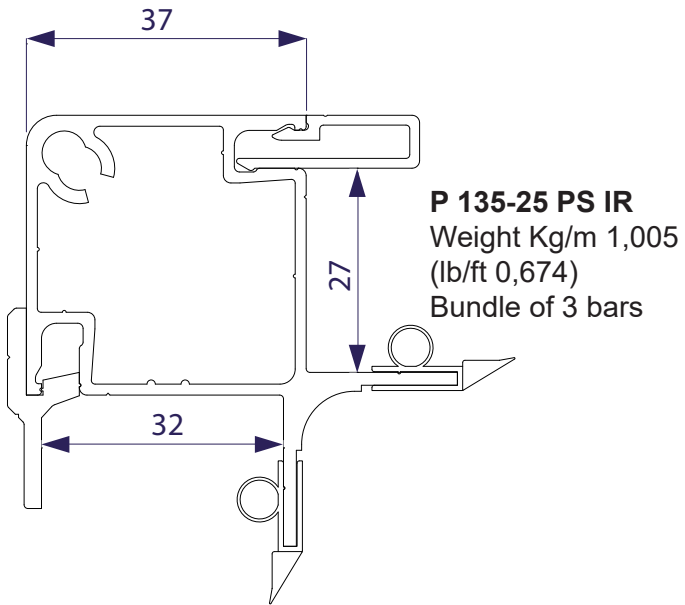
Part 2: Square profiles (section 20 panel 10 mm; aluminium corner)



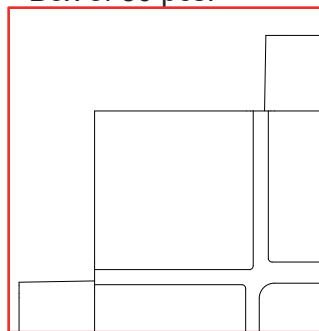
Part 2: Square profiles (section 20 panel 18 mm; aluminium corner)



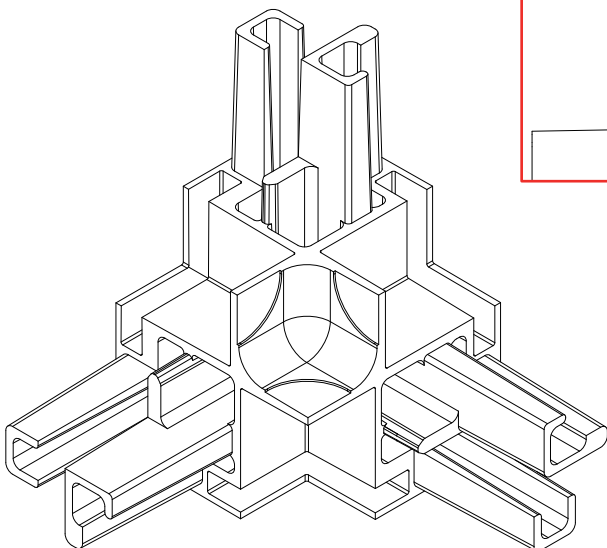
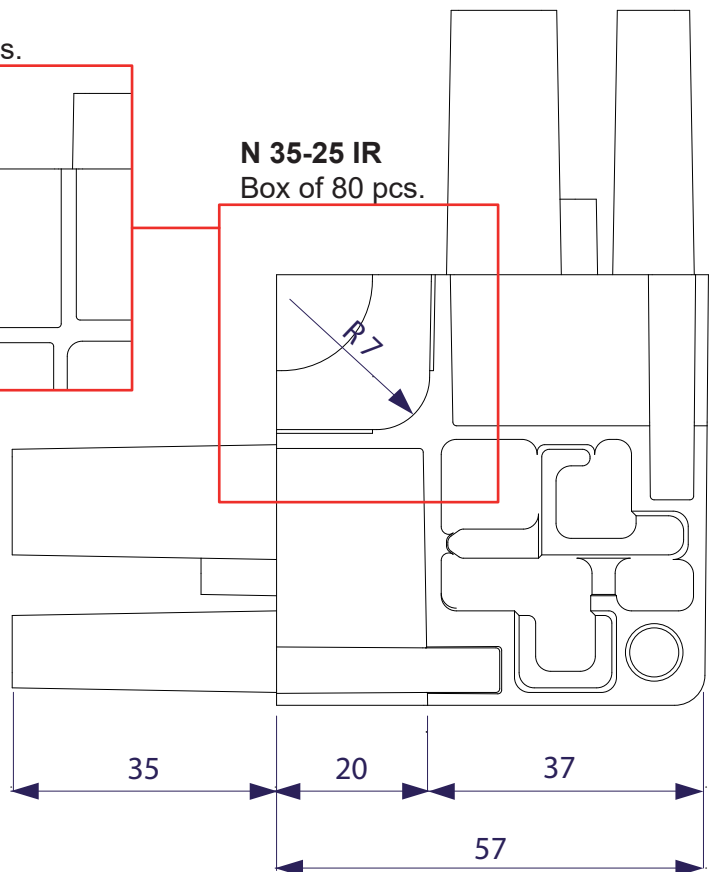
Part 2: Square profiles (section **35** panel **25/30** mm; nylon corner)



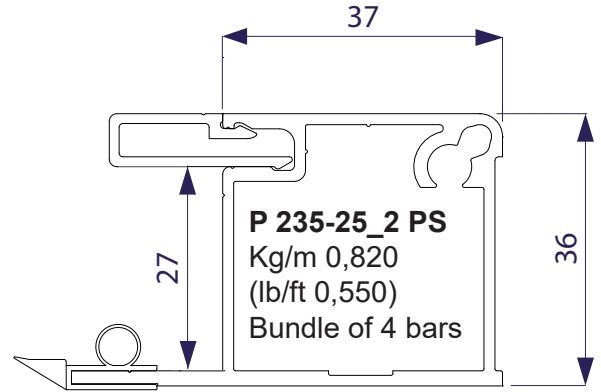
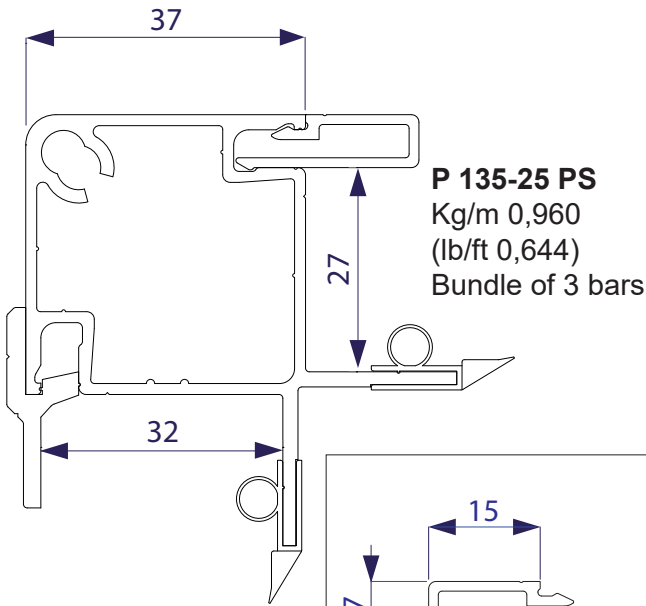
N 35-25
Box of 80 pcs.




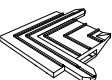

N 35-25 IR
Box of 80 pcs.

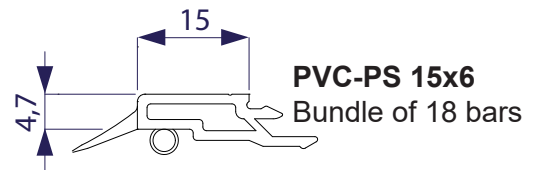
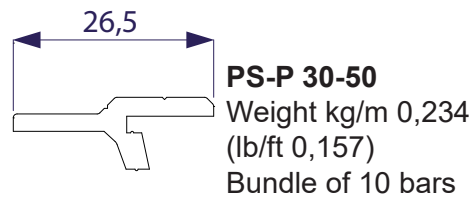
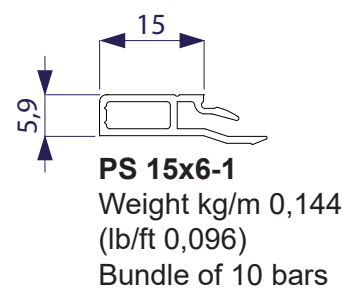
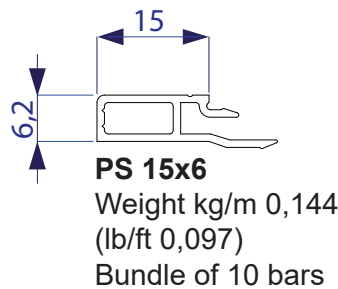
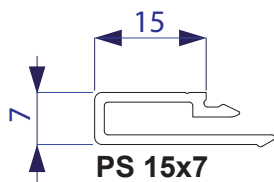


Part 2: Square profiles (section 35 panel 25/30 mm; nylon corner)



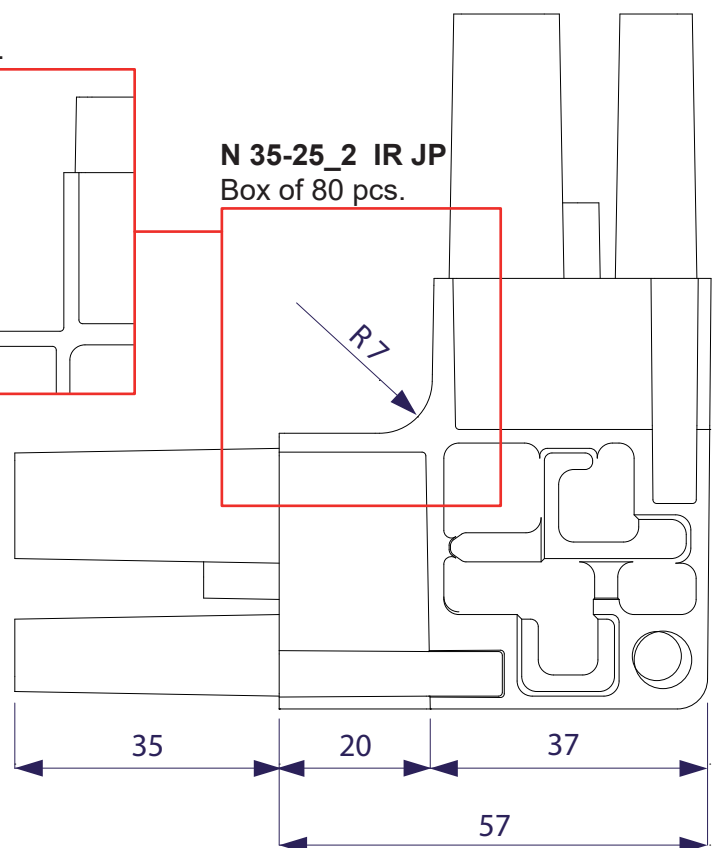
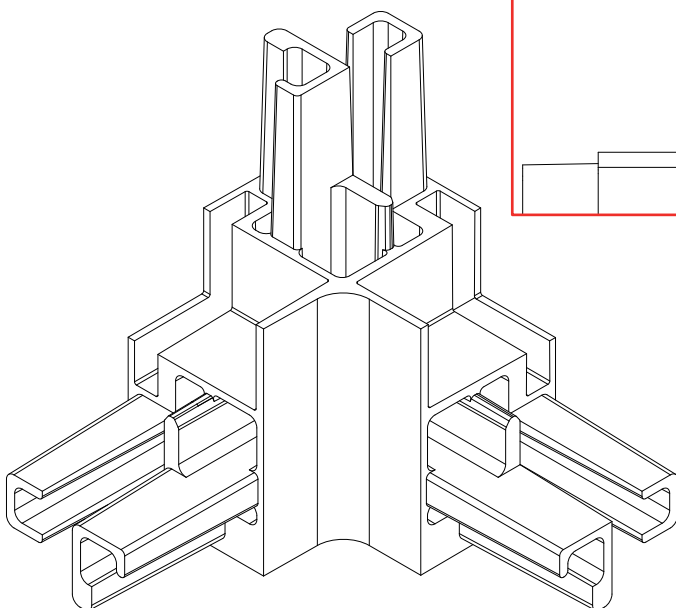
GASKET

- 
G002
 Bundle of 100 mt.
- 
GS-20
 Box of 1.000 pcs.
- 
PVC PS C
 Bundle of 120 mt.

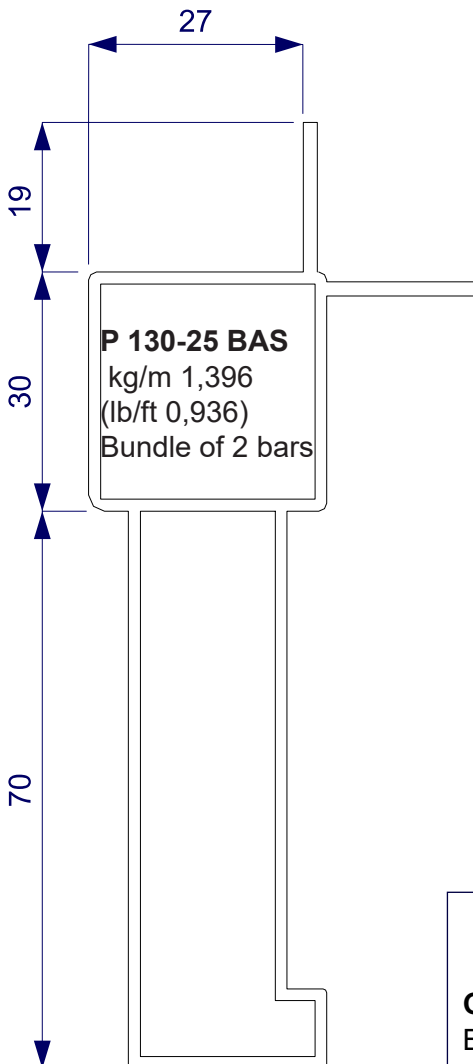
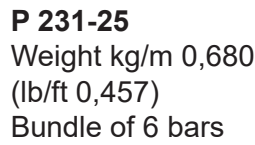
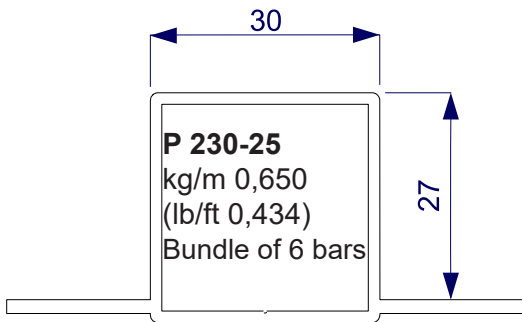
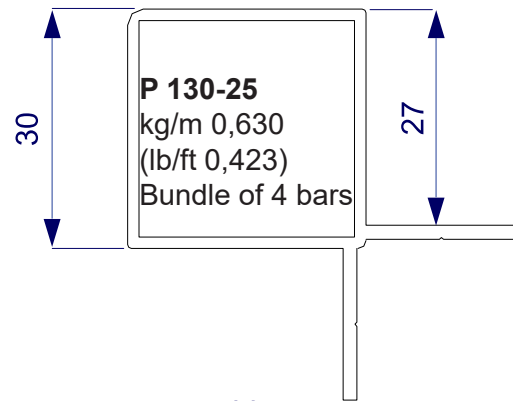
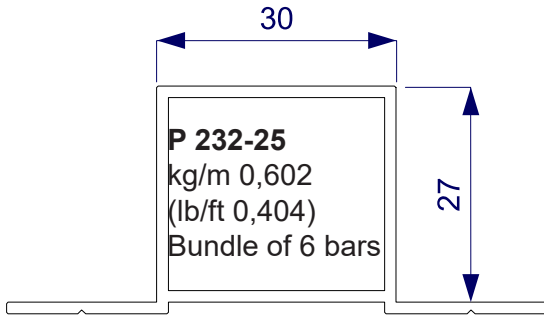


N 35-25_2 JP
Box of 80 pcs.

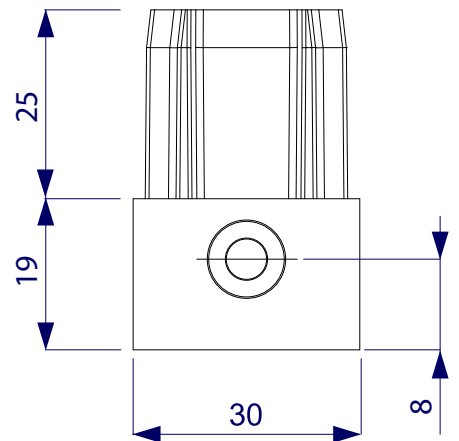
N 35-25_2 IR JP
Box of 80 pcs.



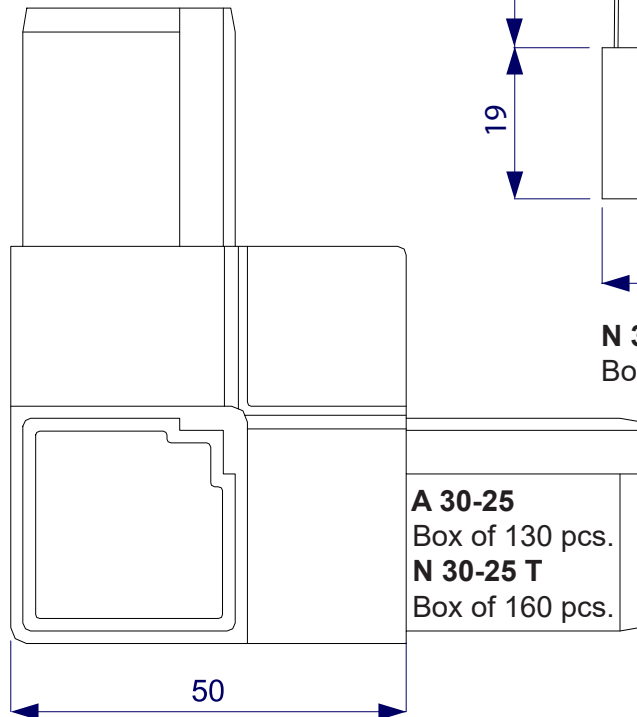
Part 2: Square profiles (section 30 panel 25 mm; aluminium and nylon corner)



NOT TO SCALE



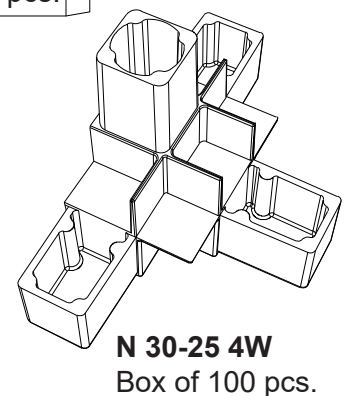
N 30 JP
Box of 400 pcs.



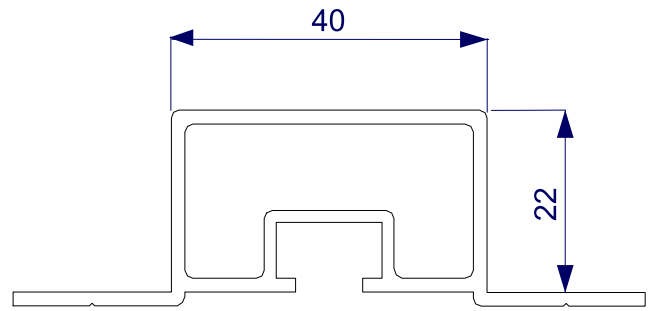
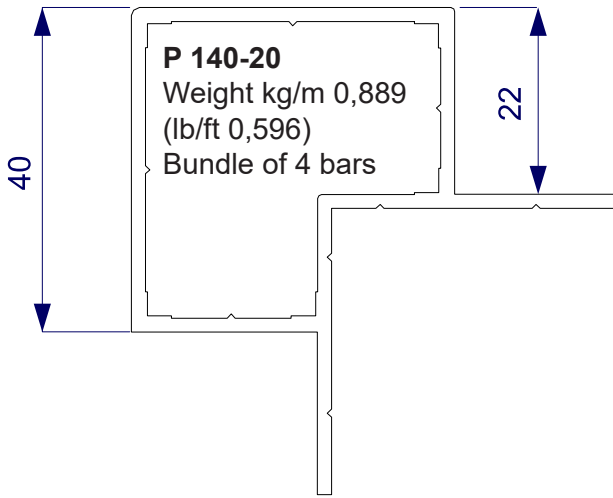
Plugs to cover the holes

GASKET

<p>G002 Bundle of 100 mt.</p>	<p>GS-20 Box of 1.000 pcs.</p>
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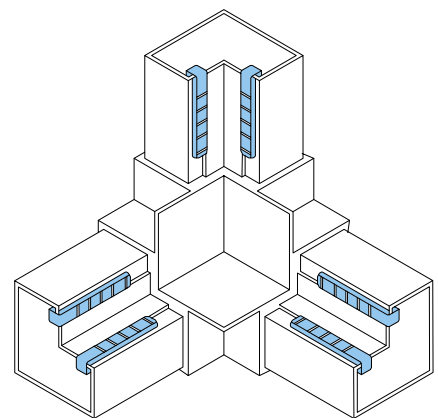
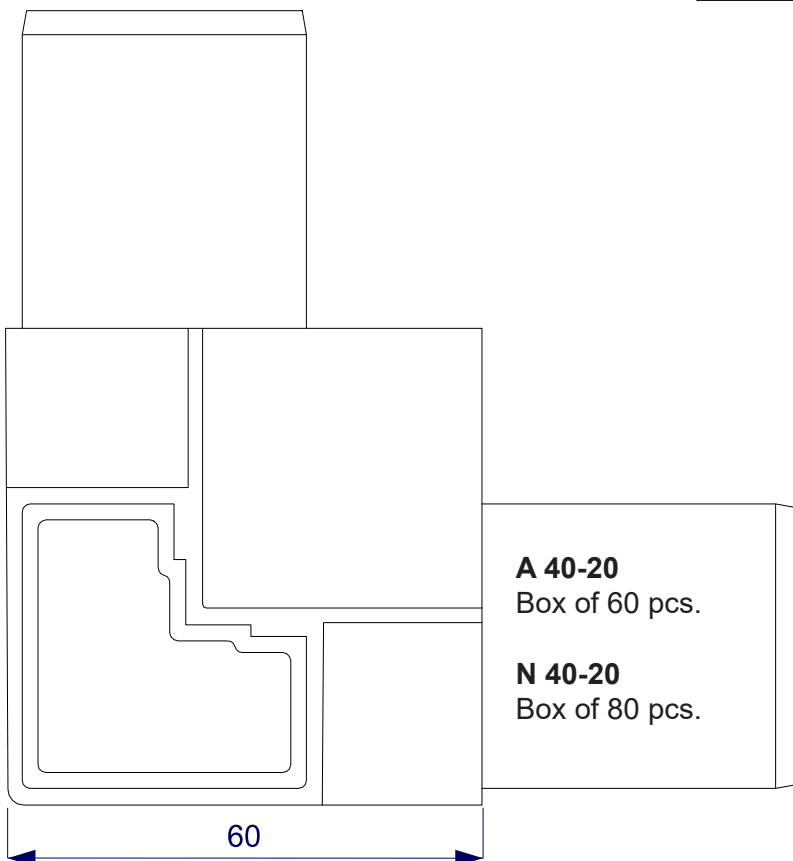
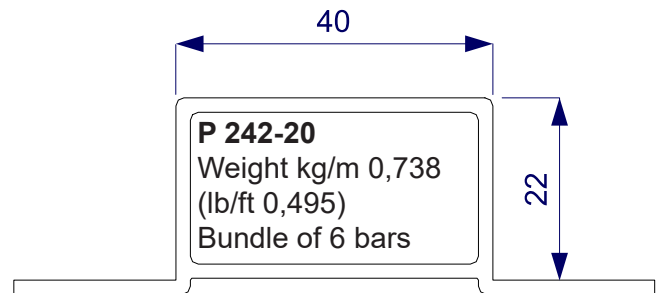
Part 2: Square profiles (section 40 panel 20 mm; aluminium and nylon corner)



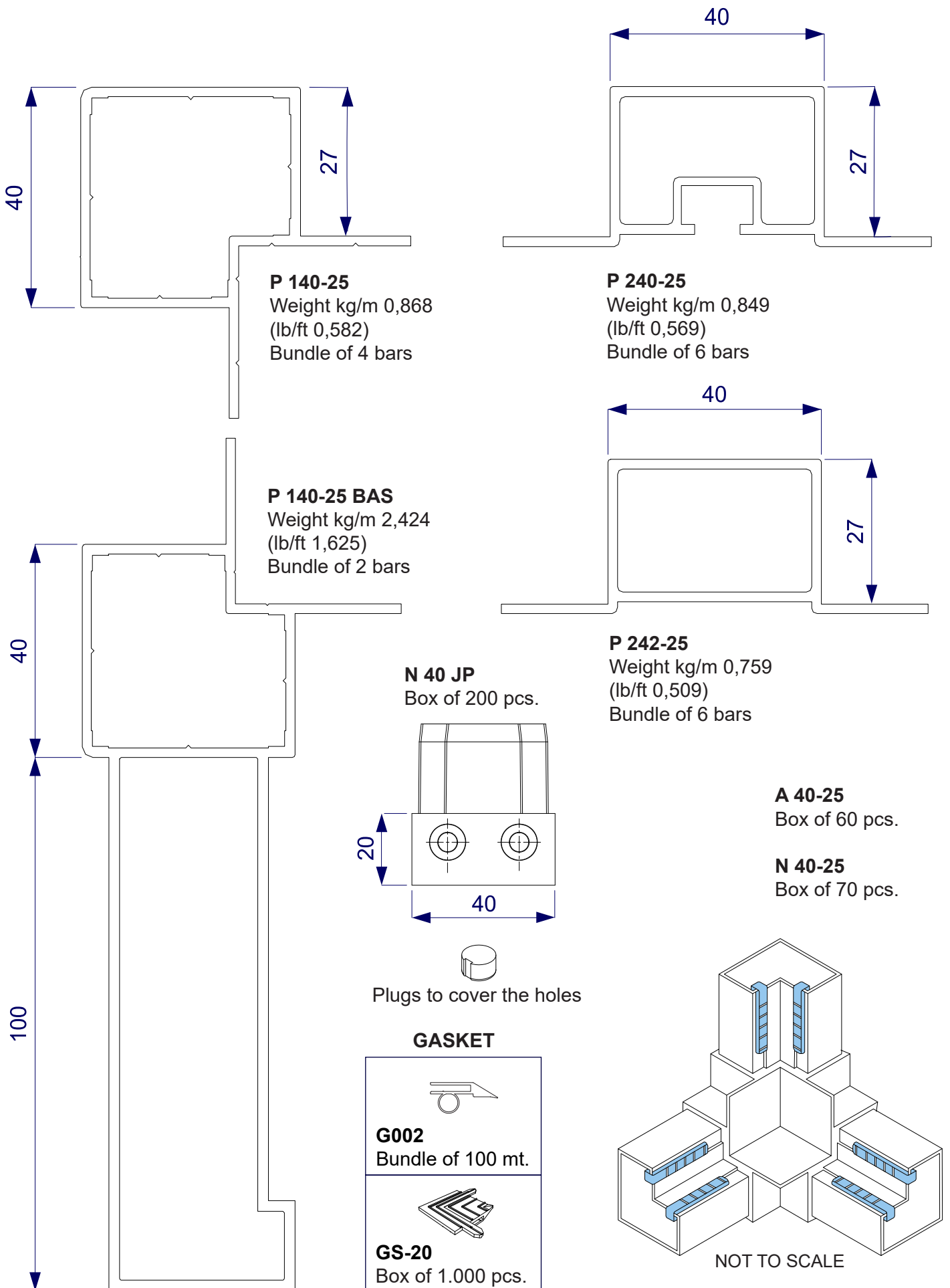
P 240-20
Weight kg/m 0,833
(lb/ft 0,558)
Bundle of 6 bars

GASKET

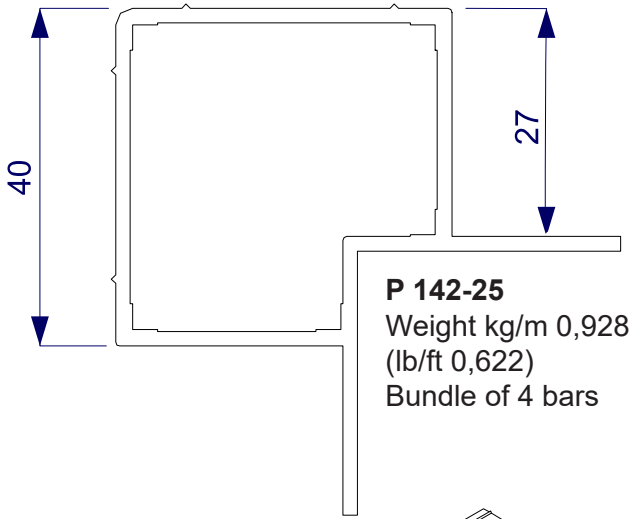
 G002 Bundle of 100 mt.	 GS-20 Box of 1.000 pcs.
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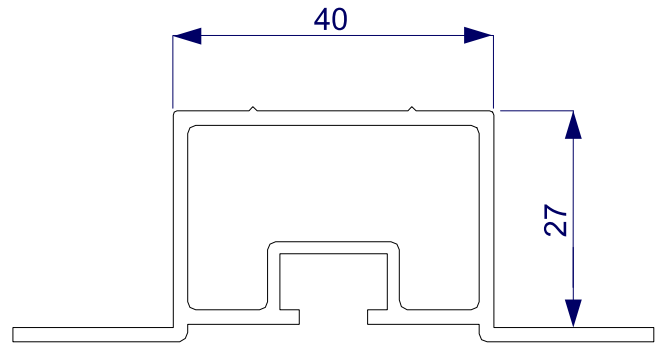
Part 2: Square profiles (section 40 panel 25 mm; aluminium and nylon corner)



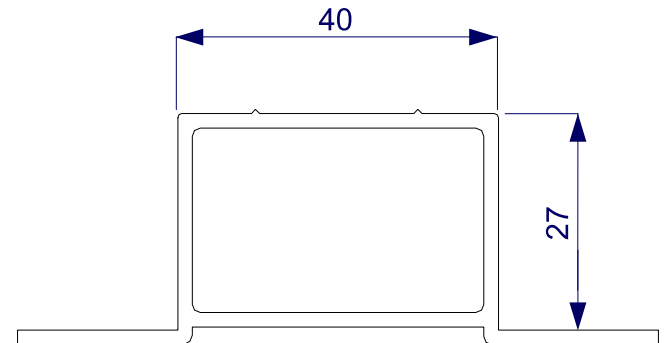
Part 2: Square profiles with ridges to prevent scratches
(section **40** panel **25** mm; aluminium and nylon corner)



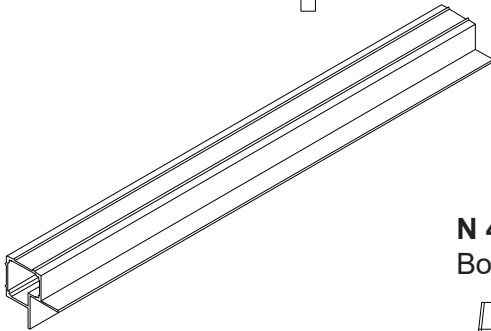
P 142-25
Weight kg/m 0,928
(lb/ft 0,622)
Bundle of 4 bars



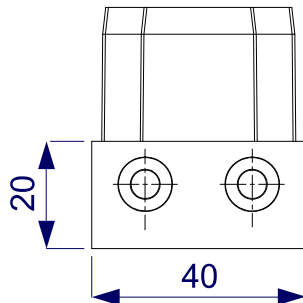
S 2400-25
Weight kg/m 0,870
(lb/ft 0,583)
Bundle of 6 bars



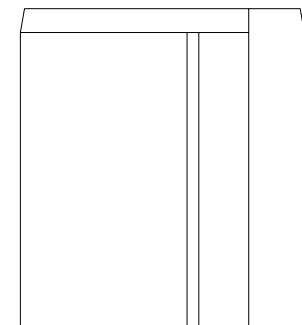
S 2401-25
Weight kg/m 0,758
(lb/ft 0,508)
Bundle of 6 bars



N 40 JP
Box of 200 pcs.

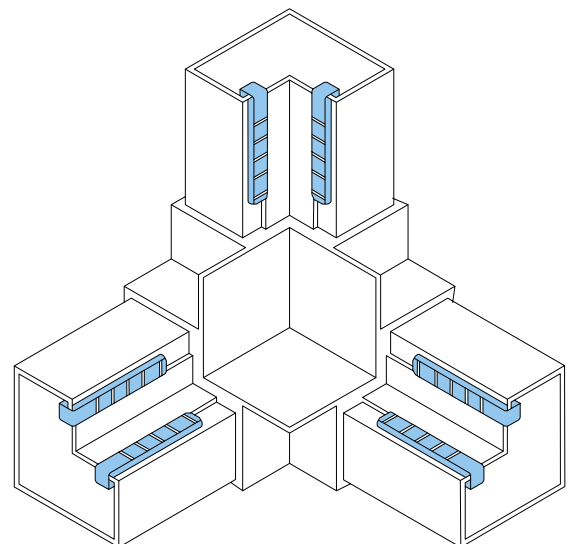
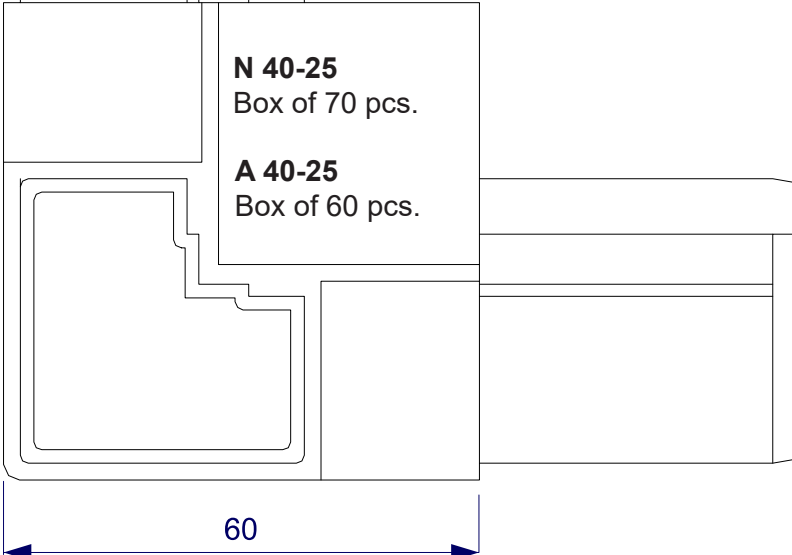


Plugs to cover the holes

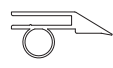



N 40-25
Box of 70 pcs.

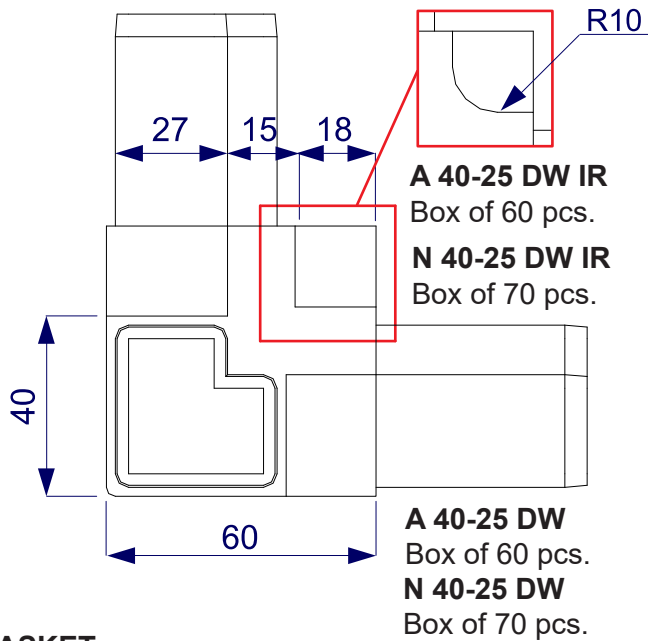
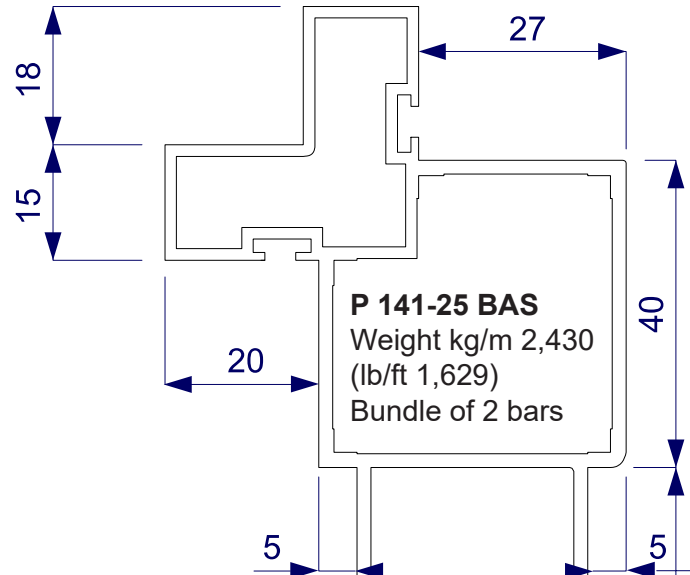
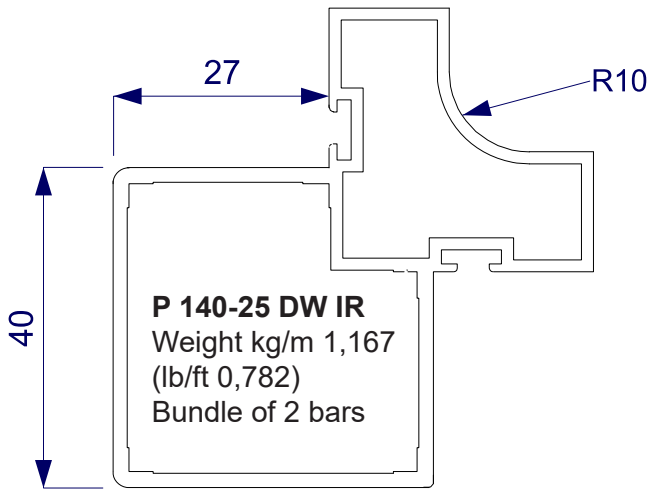
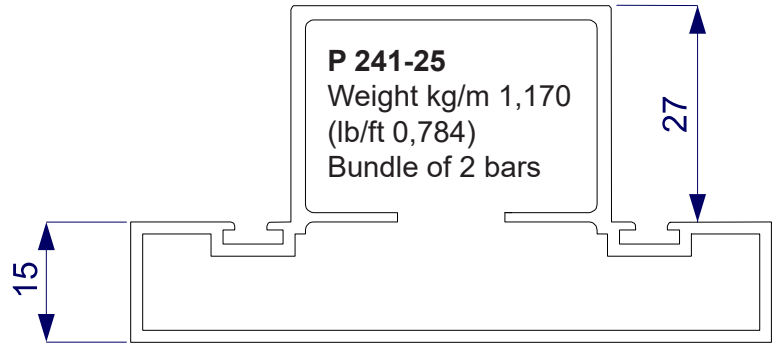
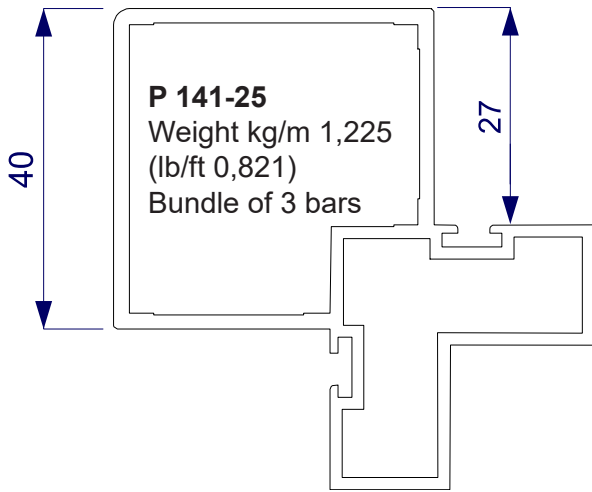
A 40-25
Box of 60 pcs.



GASKET

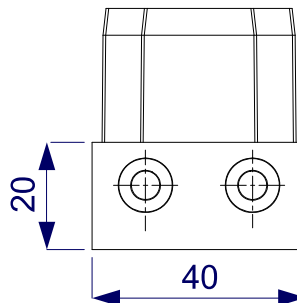
 G002 Bundle of 100 mt.	 GS-20 Box of 1.000 pcs.
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Part 2: Square profiles double section, to hide the screws
(section 40 panel 25 mm; aluminium and nylon corner)



NOT TO SCALE

N 40 JP
Box of 200 pcs.

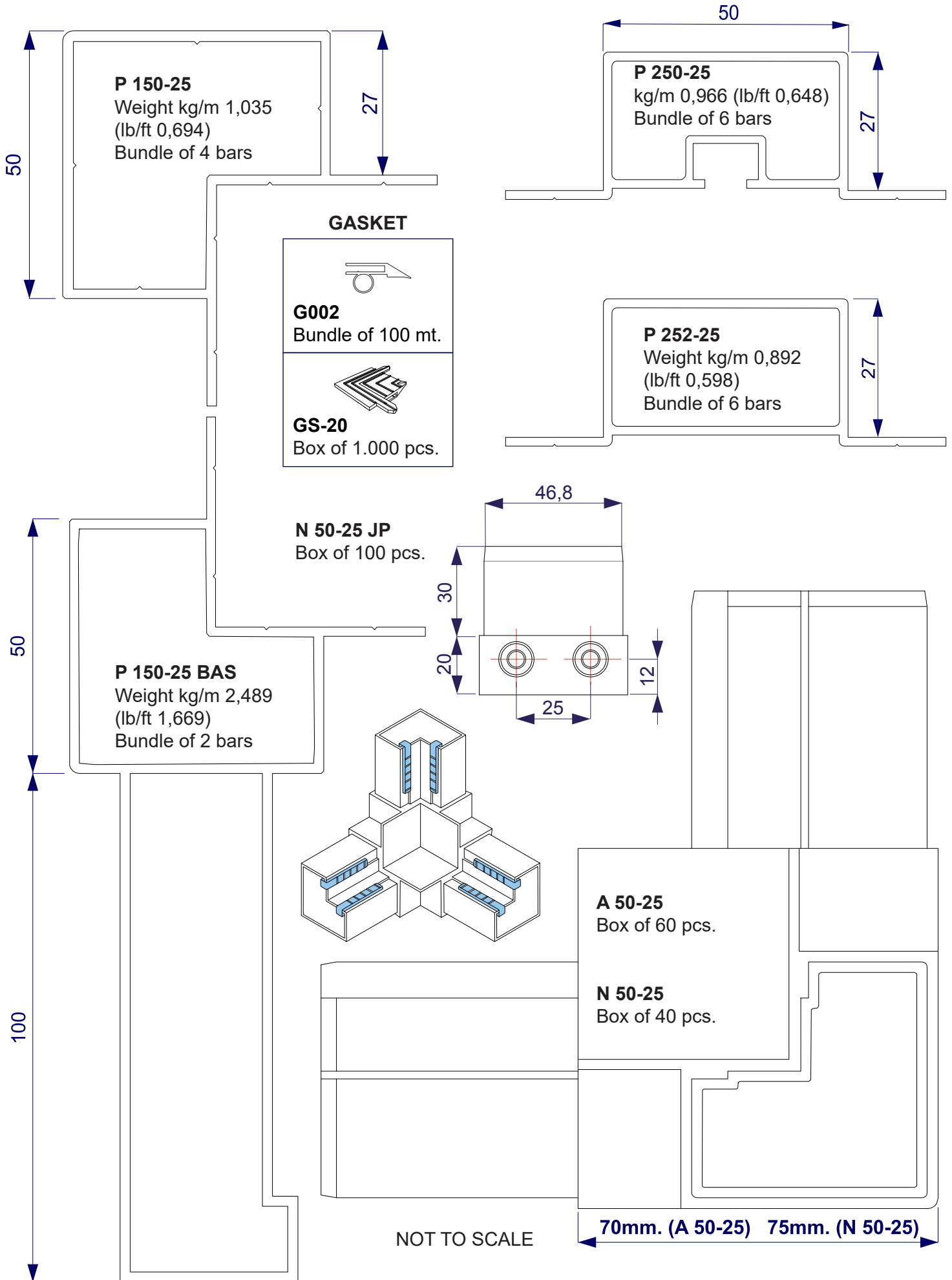


Plugs to cover the holes

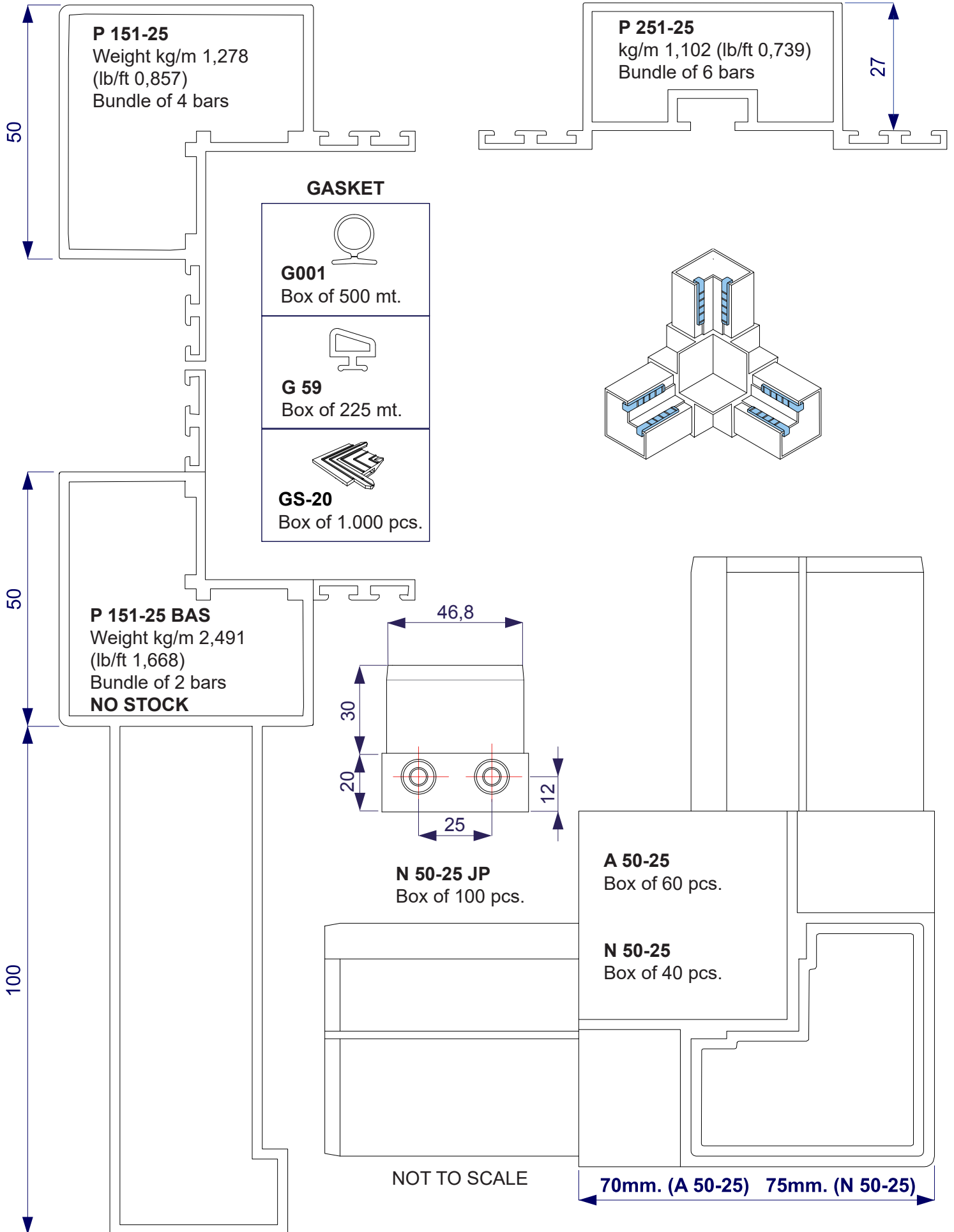
GASKET

<p>G001 Box of 500 mt.</p>	<p>G 59 Box of 225 mt.</p>
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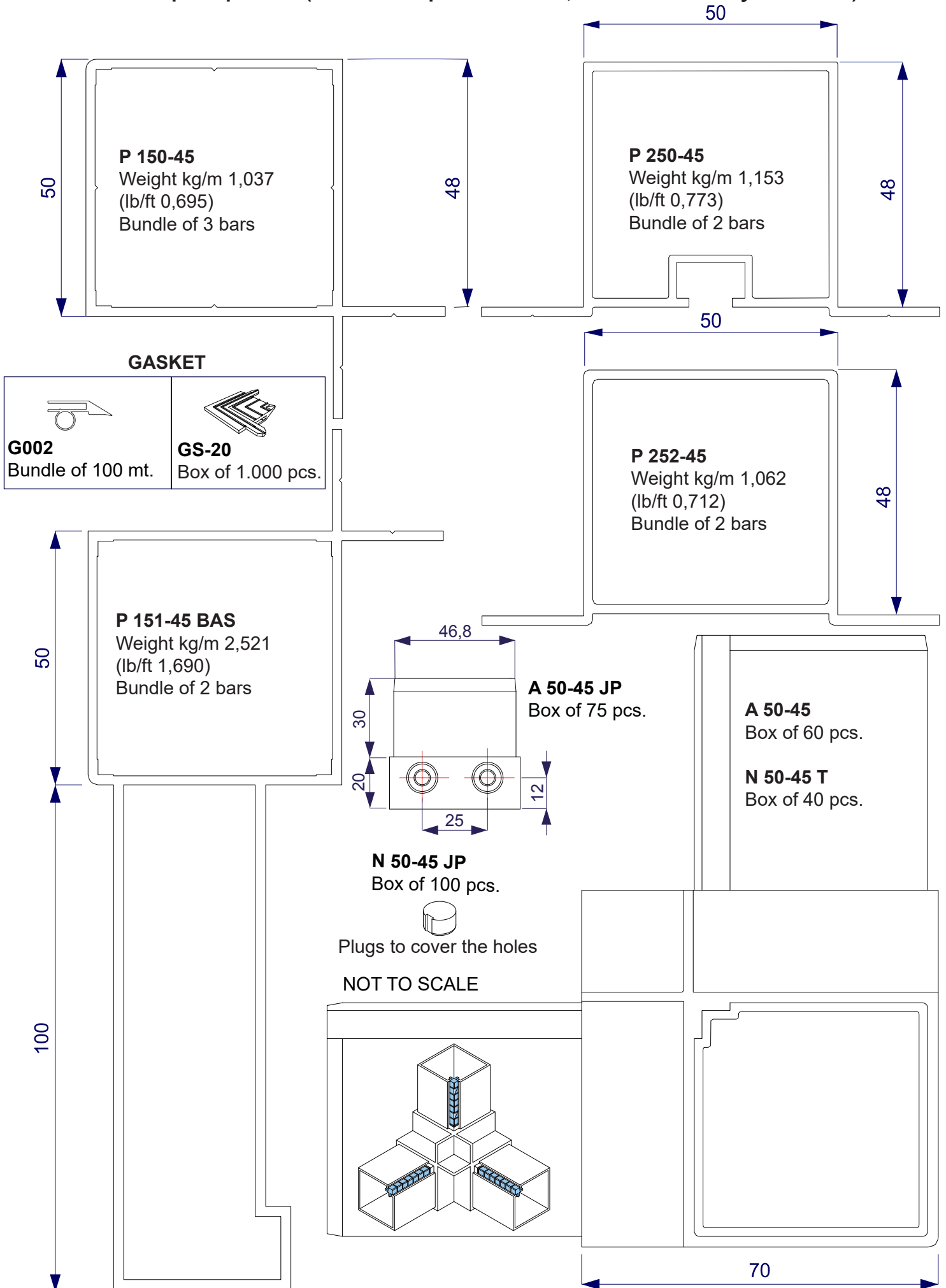
Part 2: Square profiles (section **50** panel **25** mm; aluminium and nylon corner)



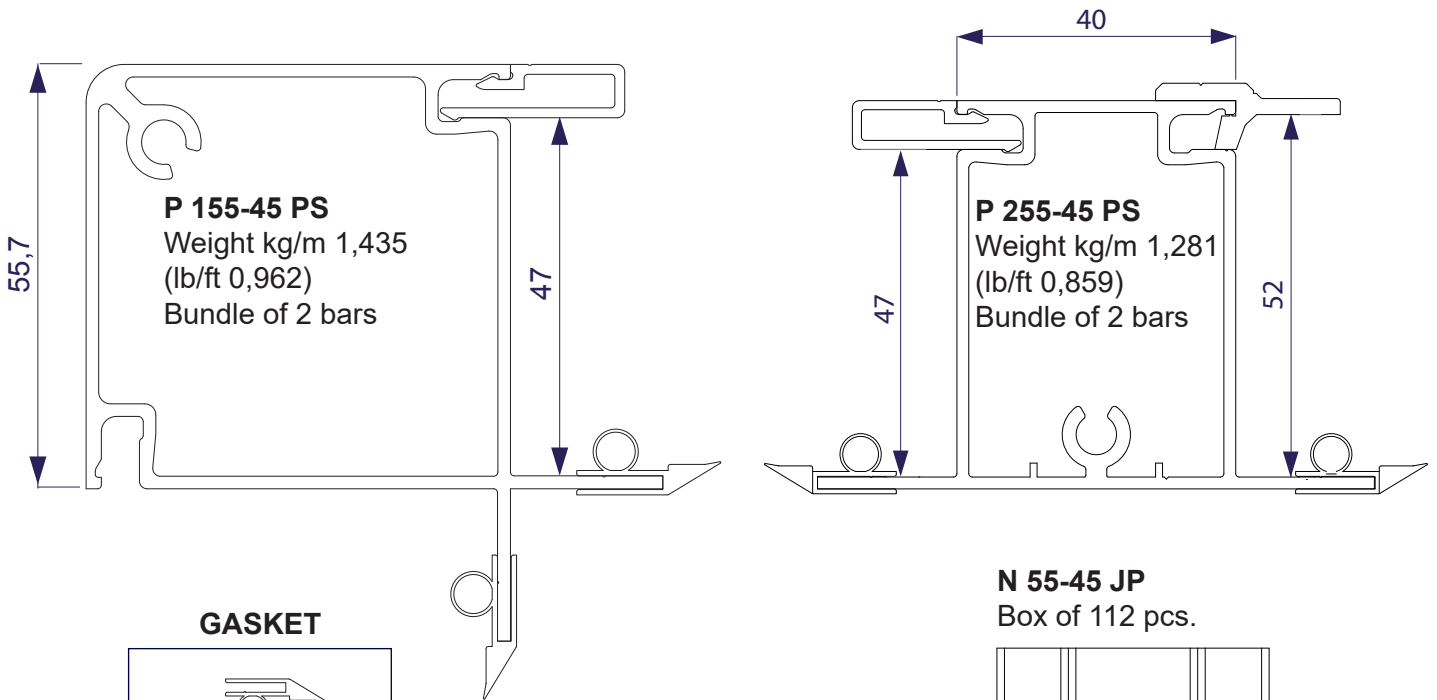
Part 2: Square profiles with groove for gasket
(section **50** panel **25** mm; aluminium and nylon corner)



Part 2: Square profiles (section 50 panel 45 mm; aluminium and nylon corner)

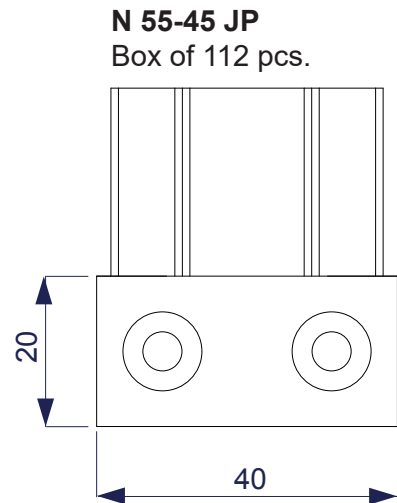


Part 2: Square profiles (section **55** panel **45/50** mm; nylon corner)

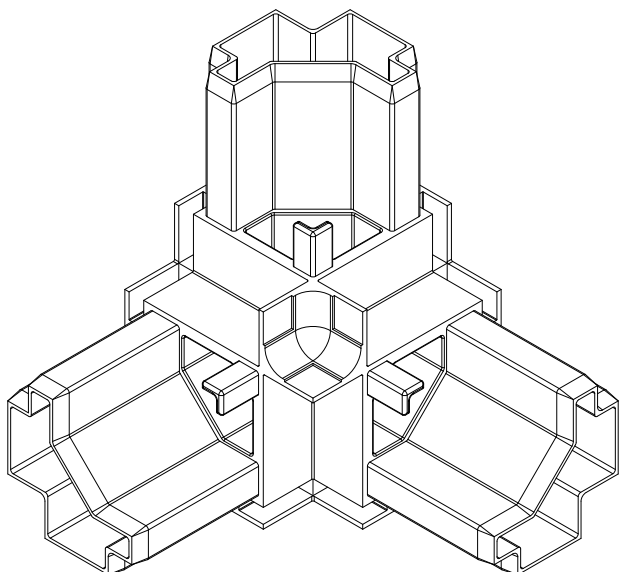


- GASKET**
- G002**
Bundle of 100 mt.
 - GS-20**
Box of 1.000 pcs.
 - PVC PS C**
Bundle of 120 mt.

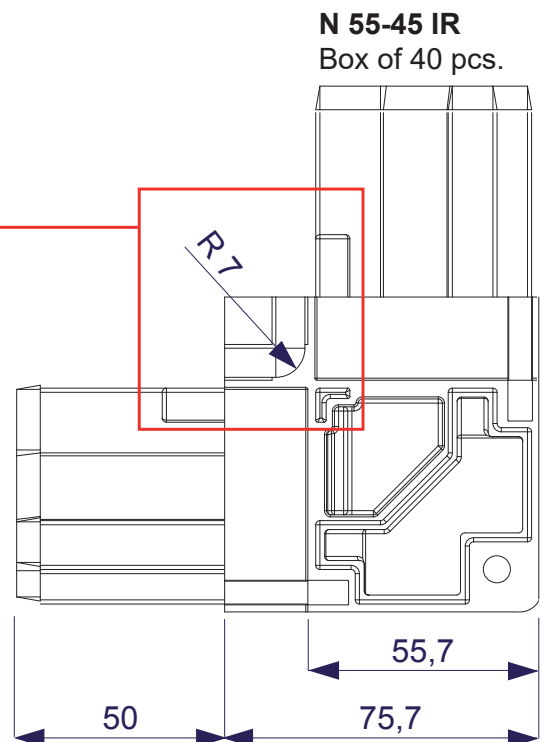
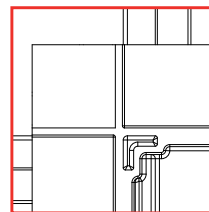
Plugs to cover the holes



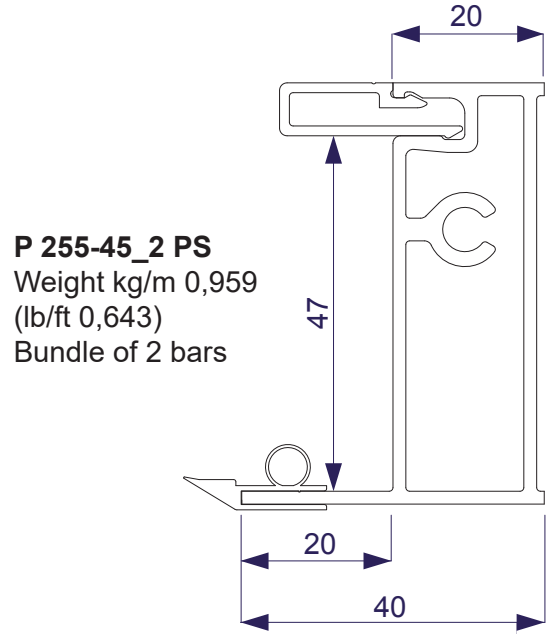
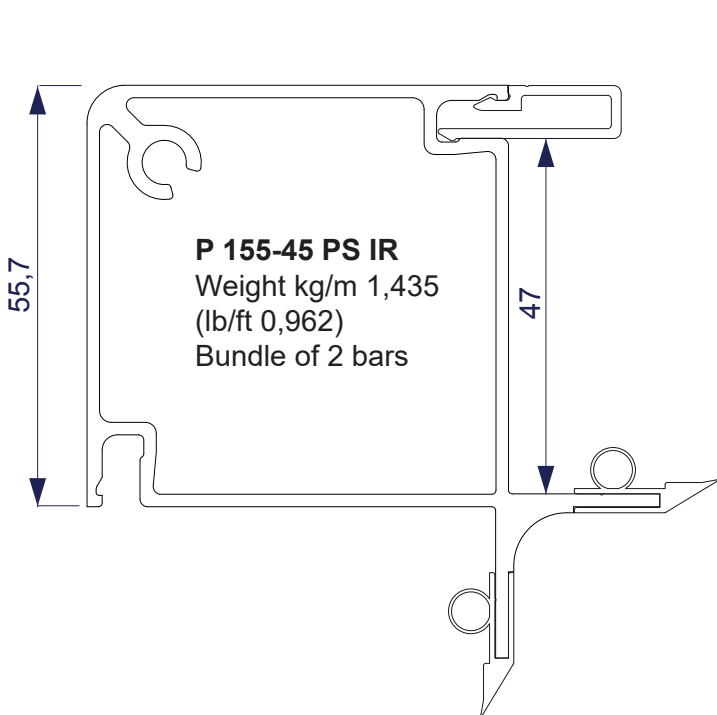
NOT TO SCALE



N 55-45
Box of 40 pcs.

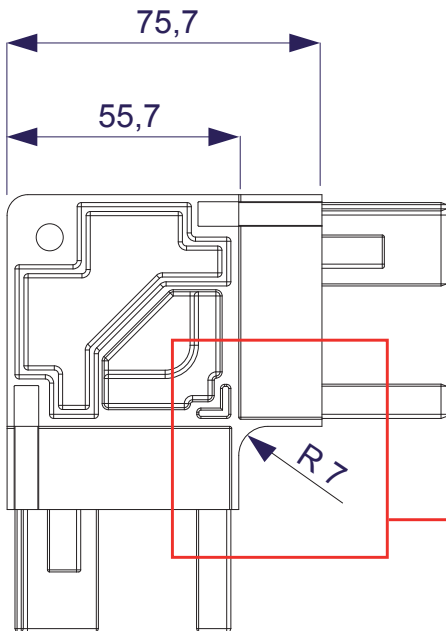


Part 2: Square profiles (section 55 panel 45/50 mm; nylon corner)



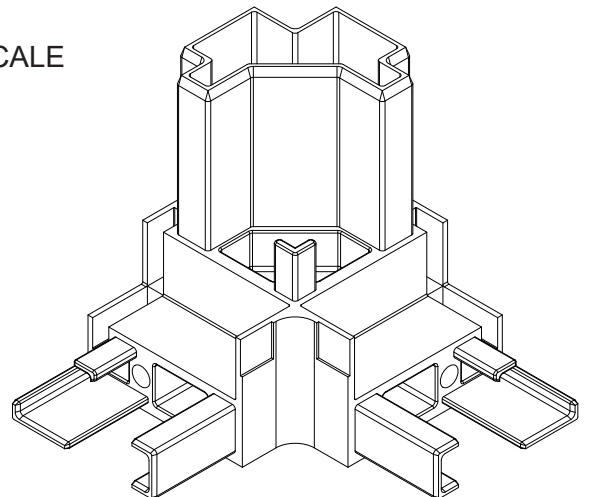
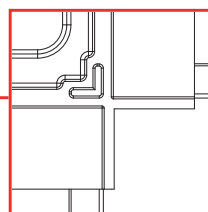
<p>PVC-PS 15X6 Bundle of 18 bars</p>	<p>PS 15X6 Weight kg/m 0,145 (lb/ft 0,097) Bundle of 10 bars</p>	<p>PS 15X6-1 Weight kg/m 0,144 (lb/ft 0,097) Bundle of 10 bars</p>	<p>PS 15X7 Weight kg/m 0,179 (lb/ft 0,120) Bundle of 10 bars</p>
<p>PS-P 30-50 Weight kg/m 0,234 (lb/ft 0,348) Bundle of 10 bars</p>			

N 55-45_2 IR JP
Box of 50 pcs.

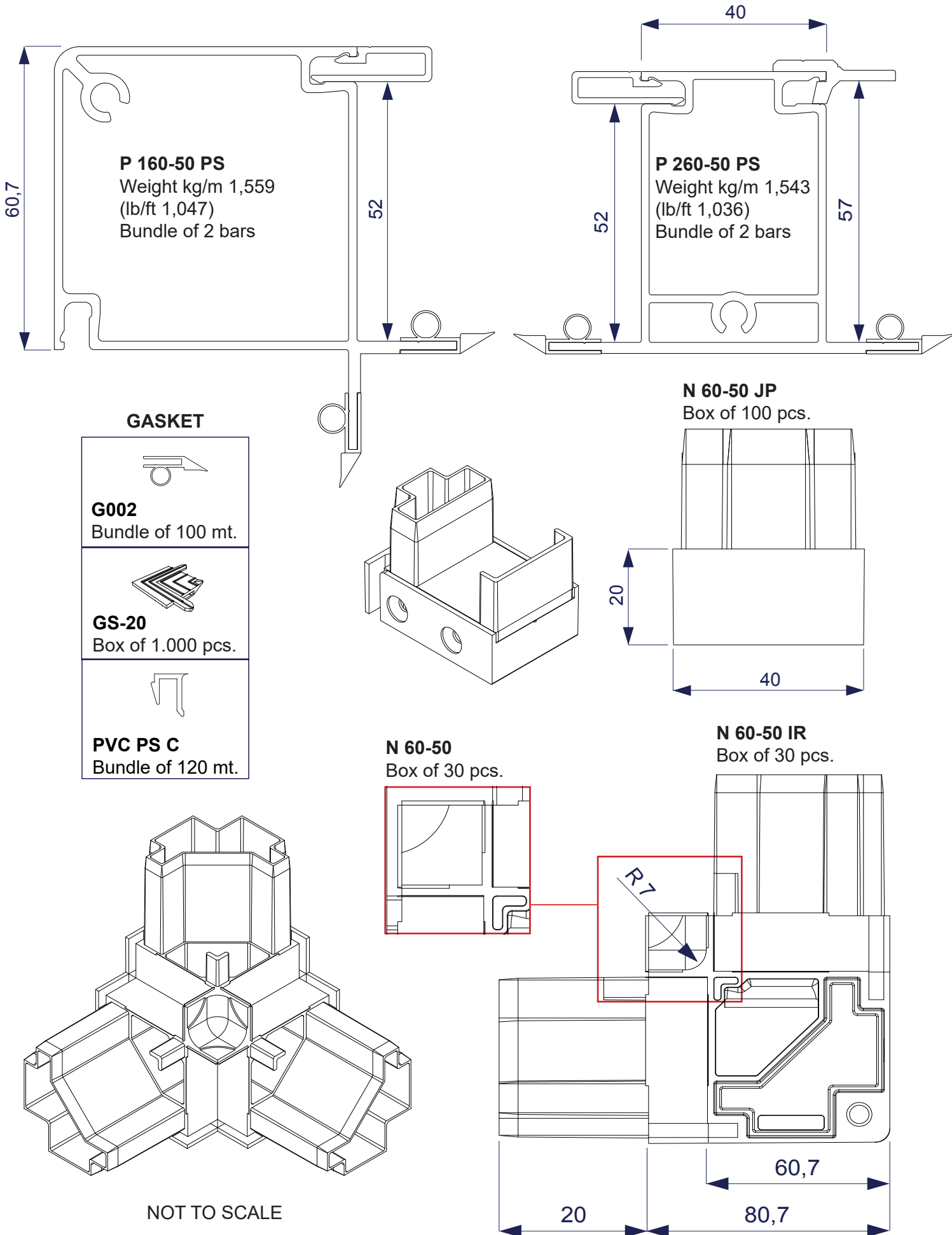


NOT TO SCALE

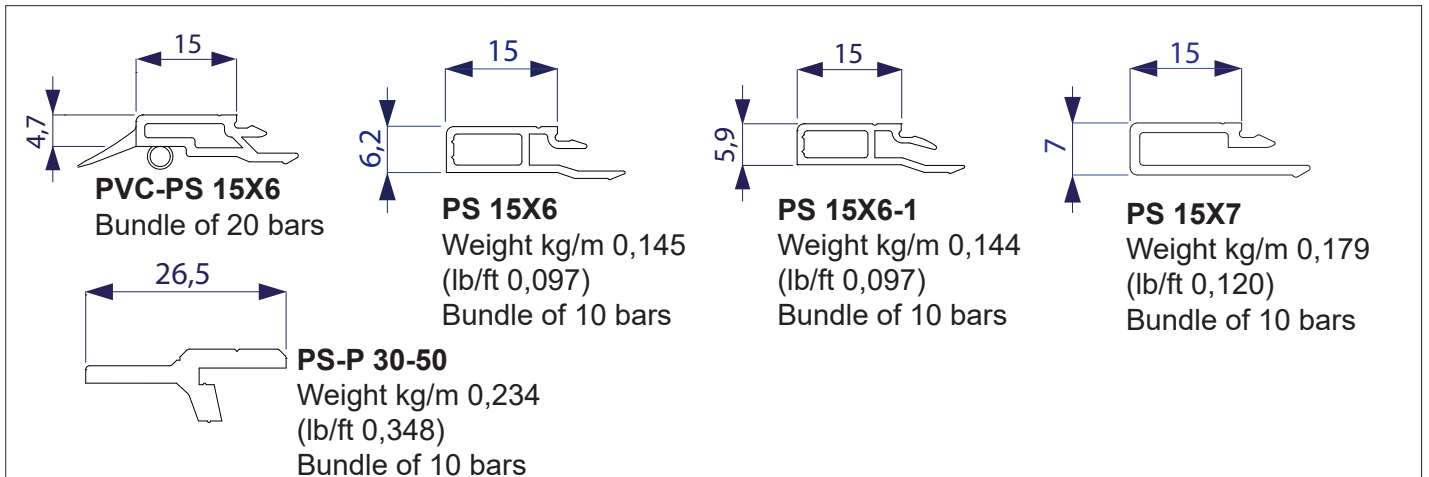
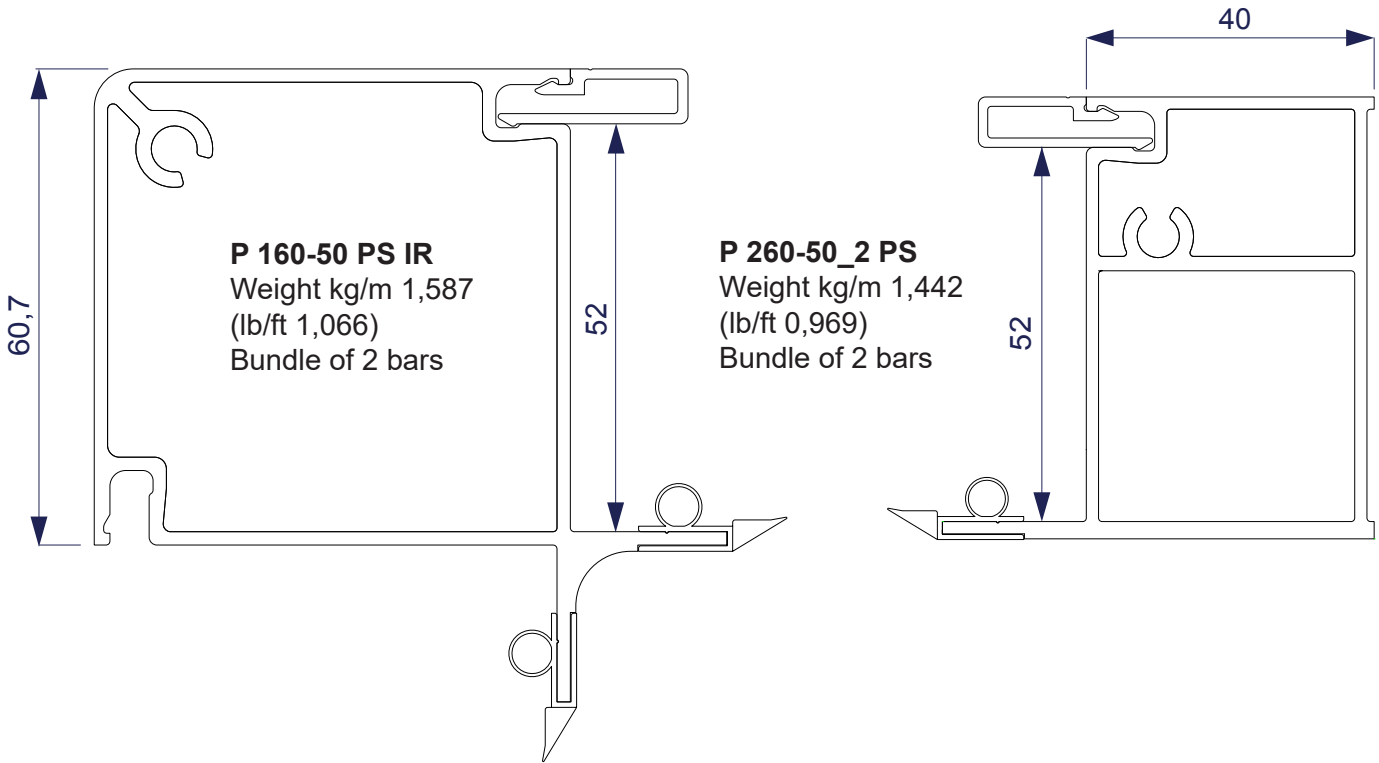
N 55-45_2 JP
Box of 50 pcs.



Part 2: Square profiles (section 60 panel 50/55 mm; nylon corner)



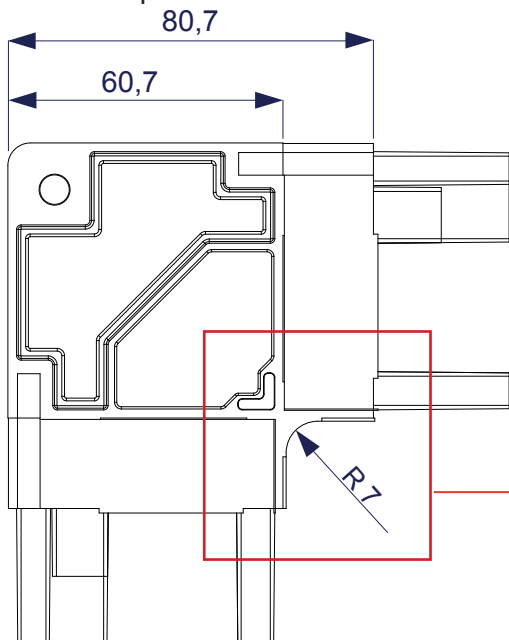
Part 2: Square profiles (section 60 panel 50/55 mm; nylon corner)



N 60-50_2 IR JP

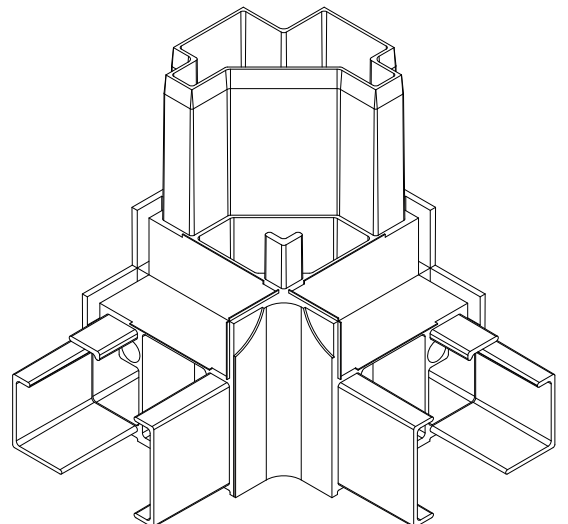
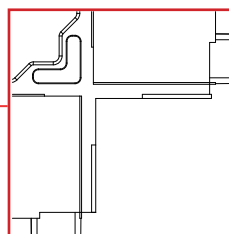
Box of 50 pcs.

NOT TO SCALE



N 60-50_2 JP

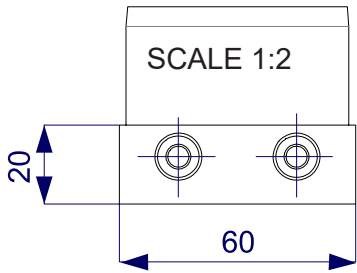
Box of 50 pcs.



Part 2: Square section, double wall to hide the screws
(section **60** panel **45** mm; nylon corner)

N 60 JP

Nylon joint to fasten the omega profile
Box of 200 pcs.



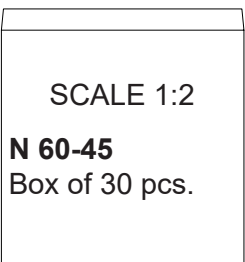
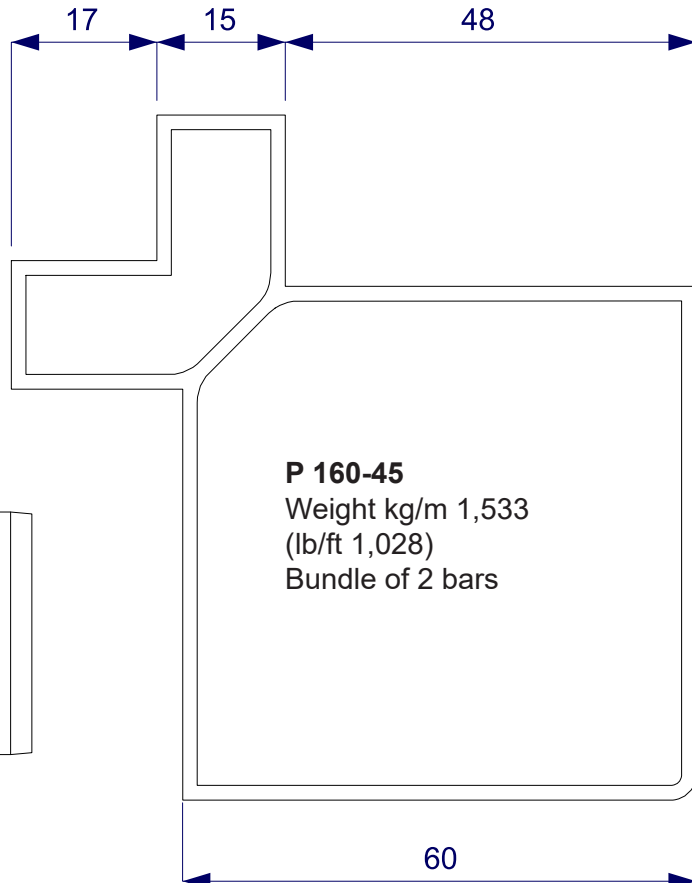
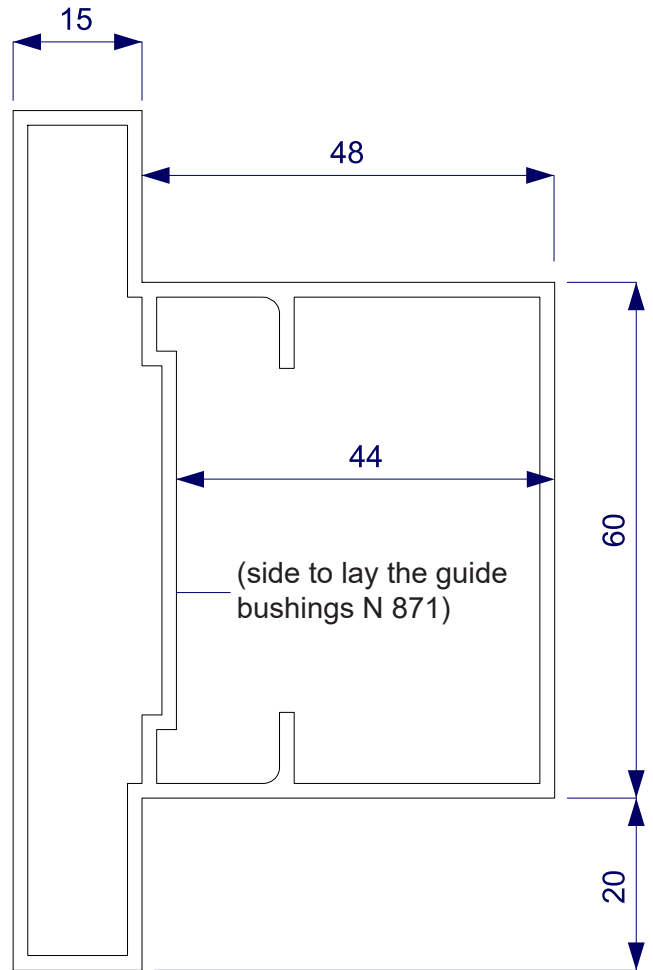
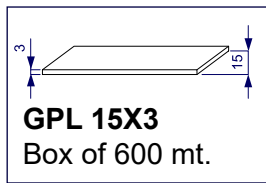
P 260-45

Weight kg/m 1,861
(lb/ft 1,248)
Bundle of 2 bars



Plugs to cover the holes

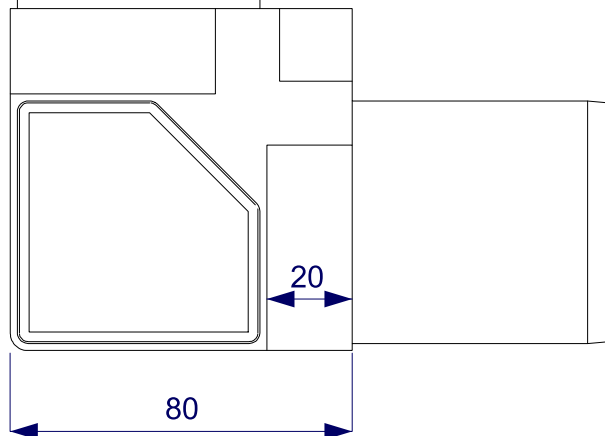
GASKET



N 60-45
Box of 30 pcs.

P 160-45

Weight kg/m 1,533
(lb/ft 1,028)
Bundle of 2 bars



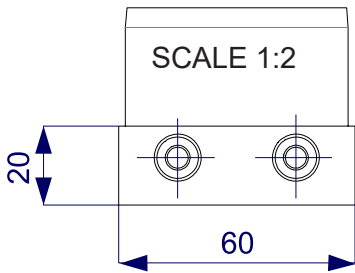
Part 2: Square profiles section internally rounded, double wall to hide the screws
(section **60** panel **45** mm; nylon corner)

N 60 JP

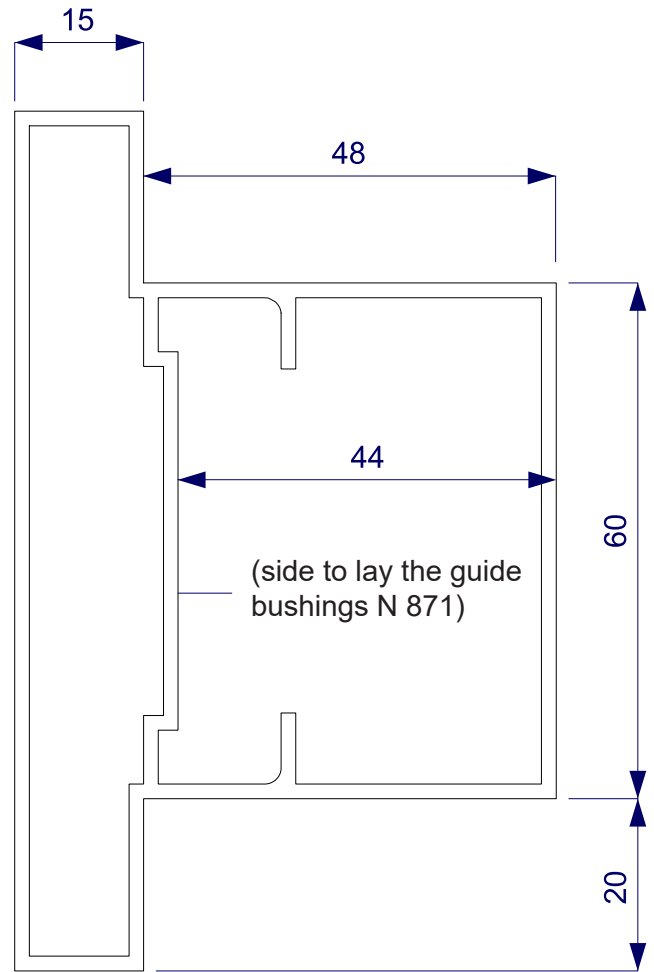
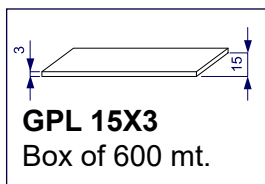
Nylon joint to fasten the omega profile
Box of 200 pcs.

P 260-45

Weight kg/m 1,861
(lb/ft 1,250)
Bundle of 2 bars

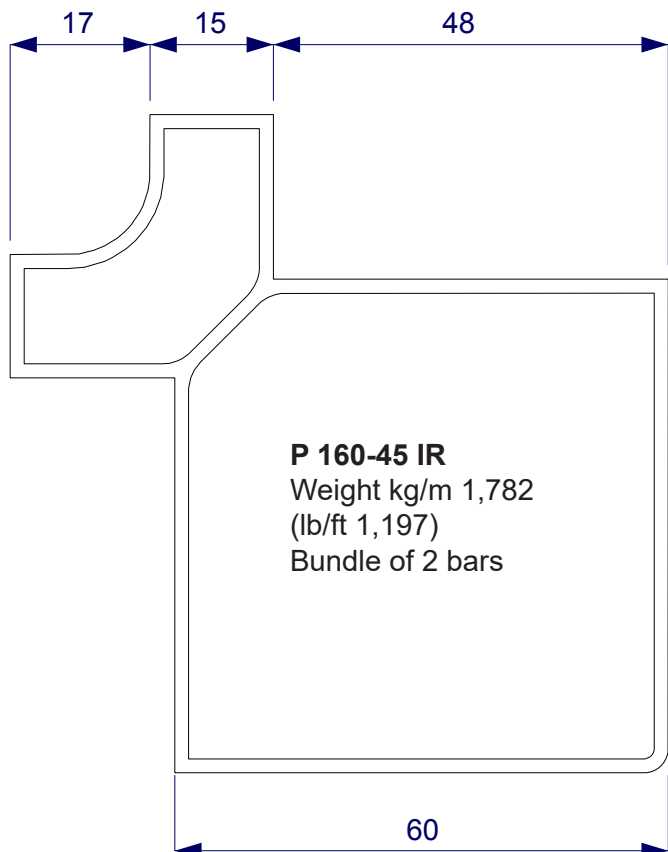
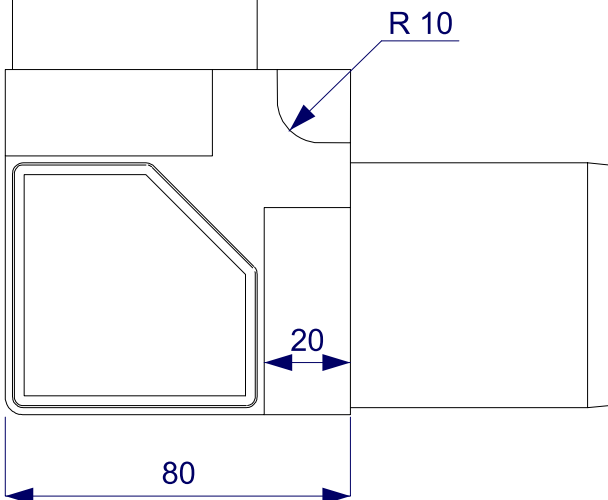


GASKET



N 60-45 IR

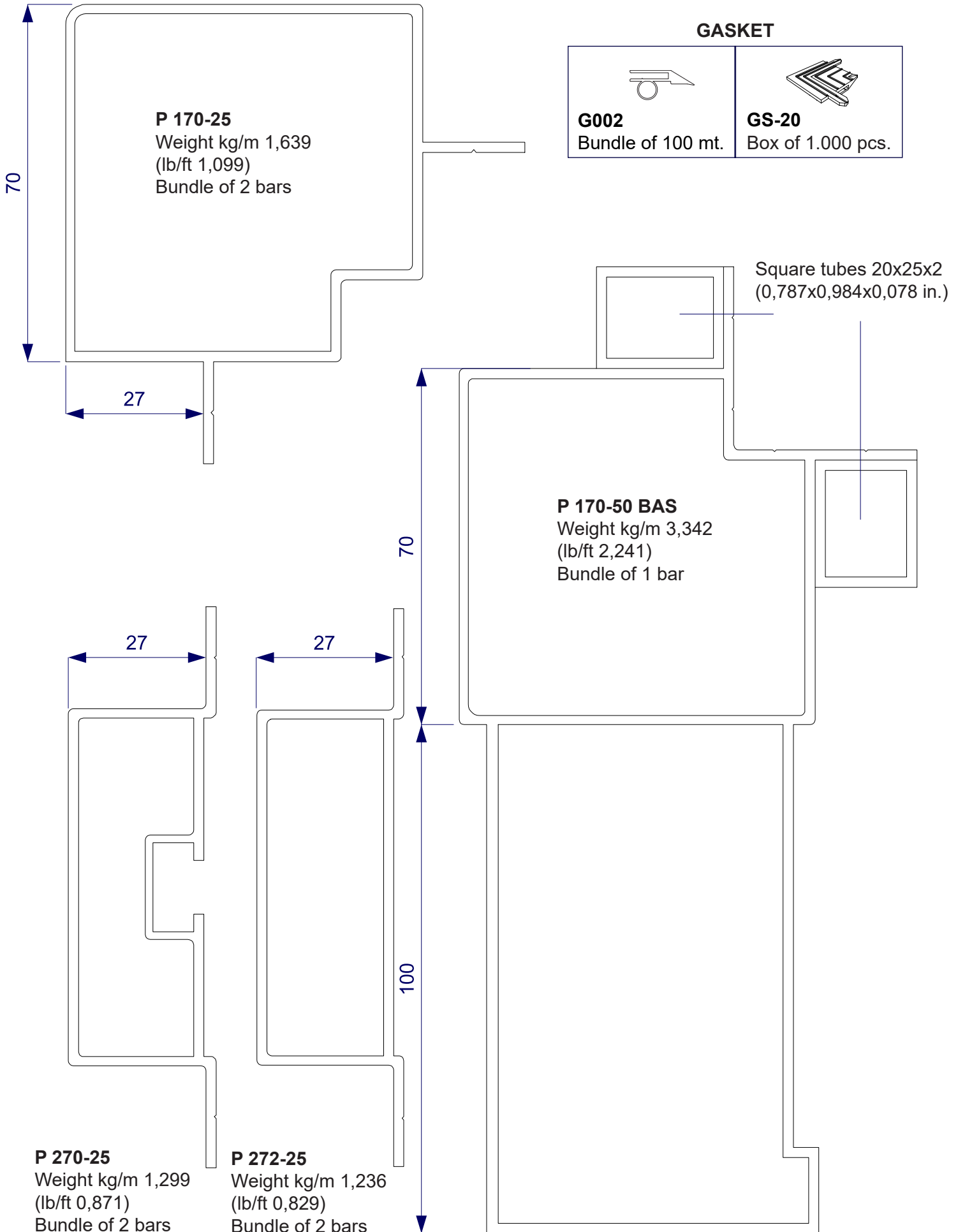
Box of 30 pcs.



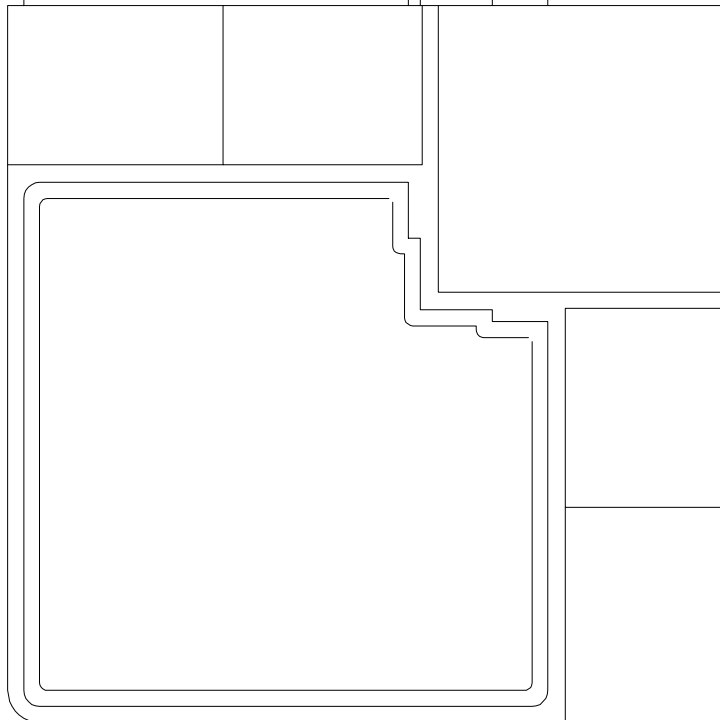
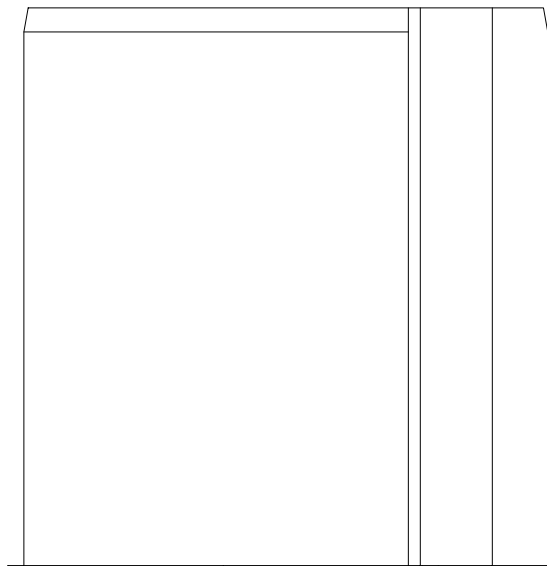
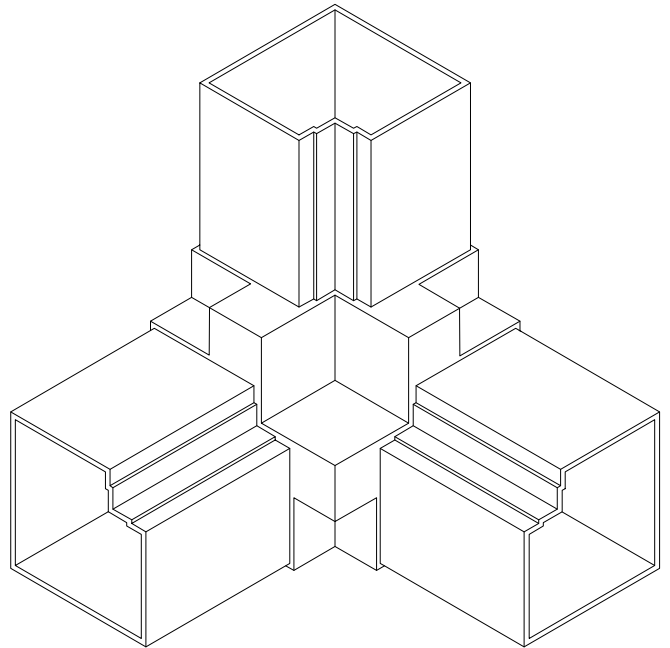
P 160-45 IR

Weight kg/m 1,782
(lb/ft 1,197)
Bundle of 2 bars

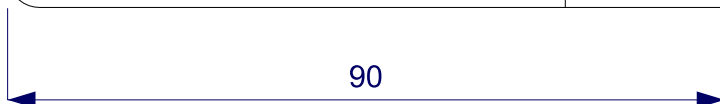
Part 2: Square profiles (section 70 panel 25 mm; aluminium corner)



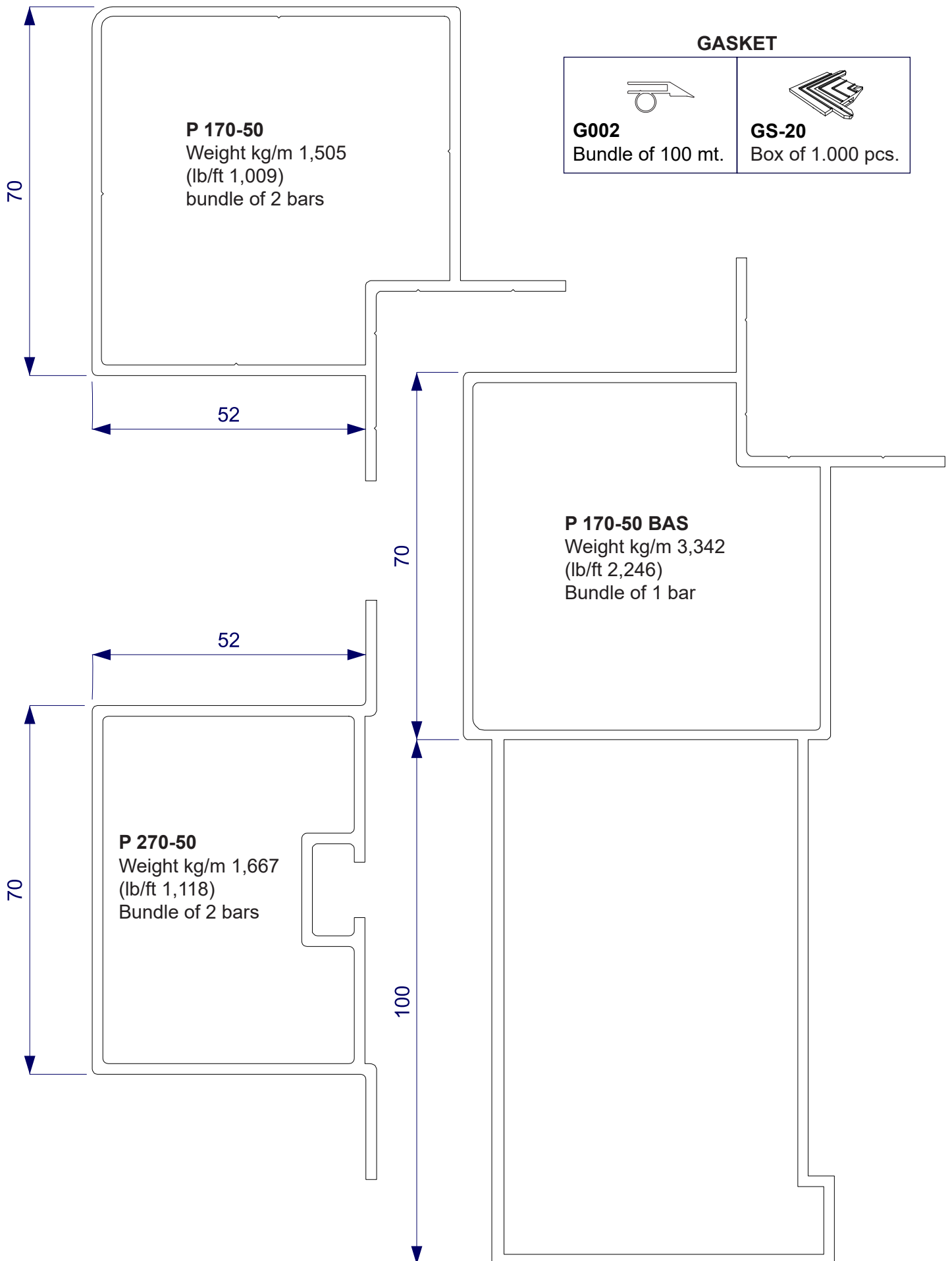
Part 2: Square profiles (section **70** panel **25** mm; aluminium corner)



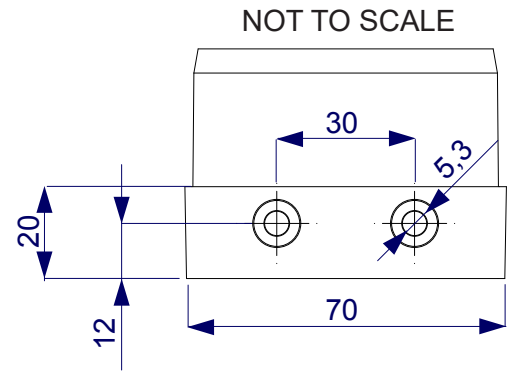
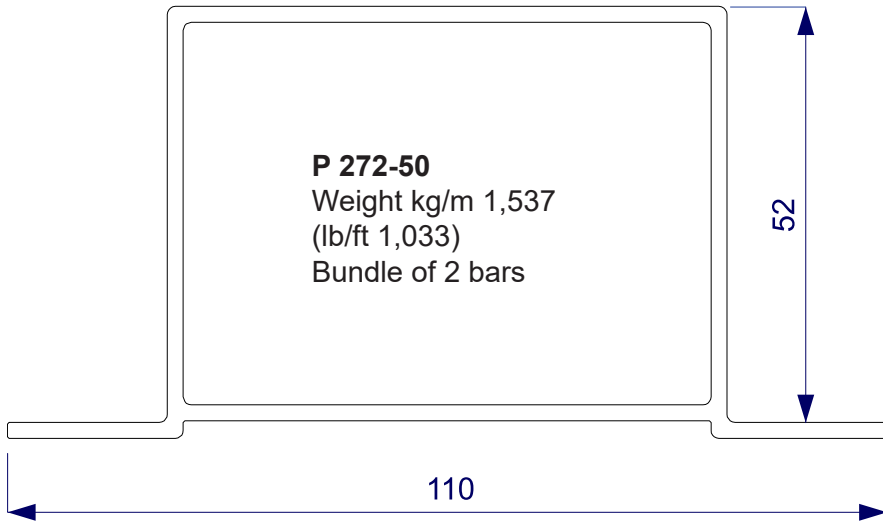
A 70-25
Box of 16 pcs.



Part 2: Square profiles (section 70 panel 50 mm; aluminum corner)



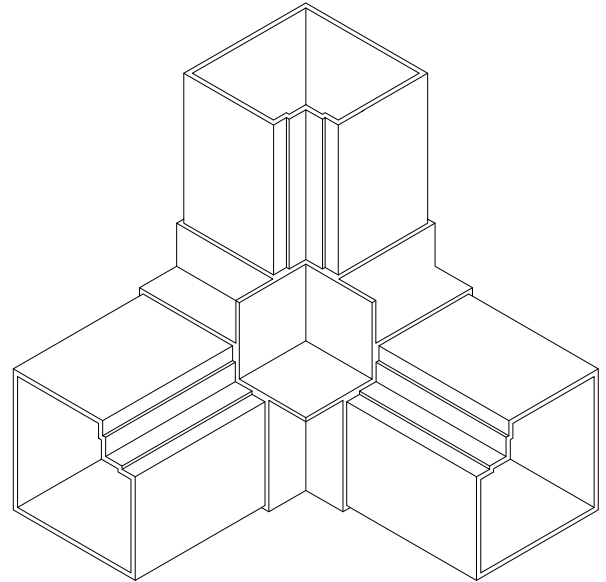
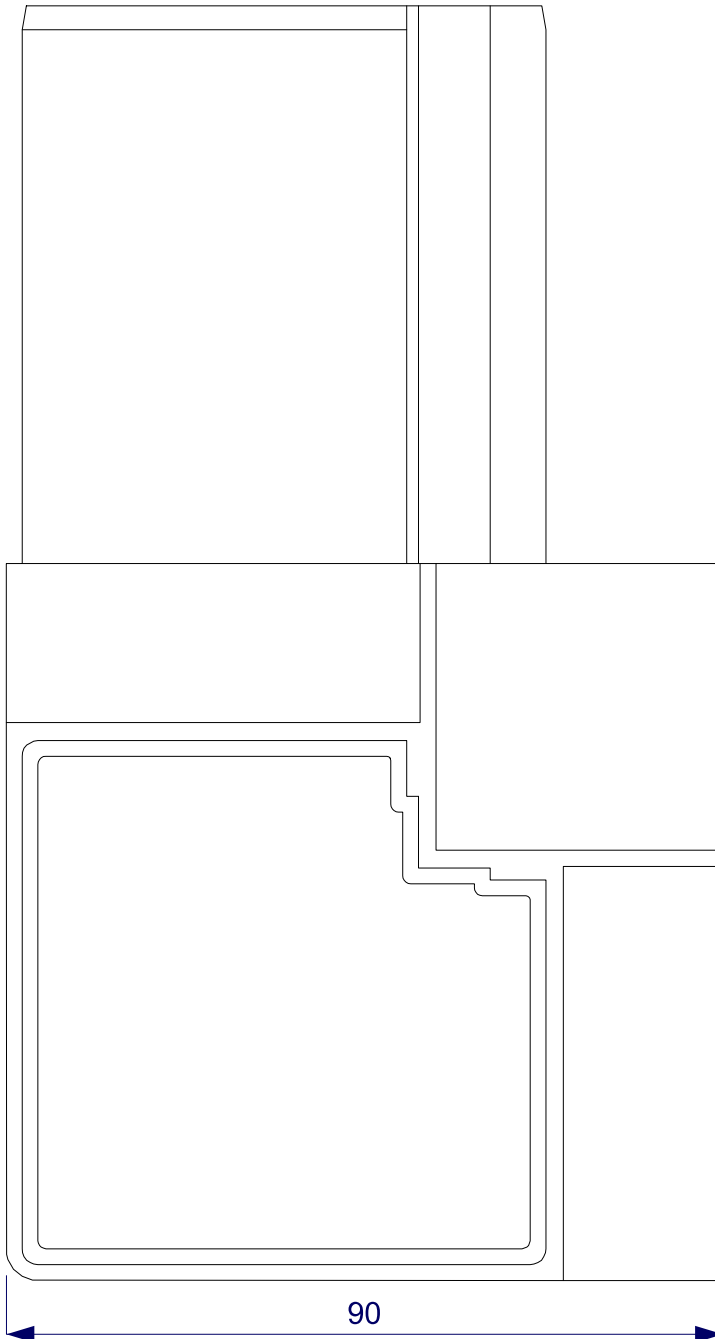
Part 2: Square profiles (section 70 panel 50 mm; aluminium corner)



A 70-50 JP
Box of 75 pcs.

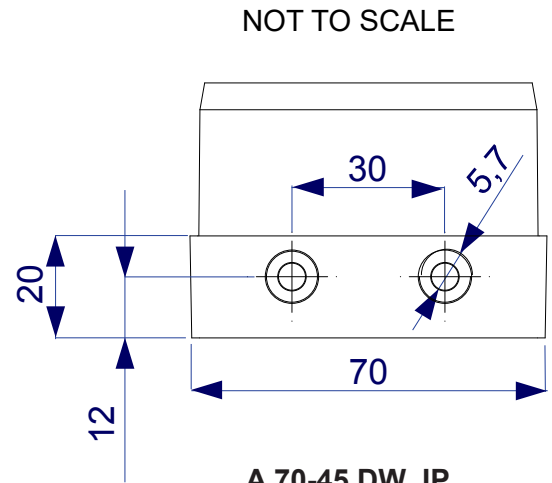
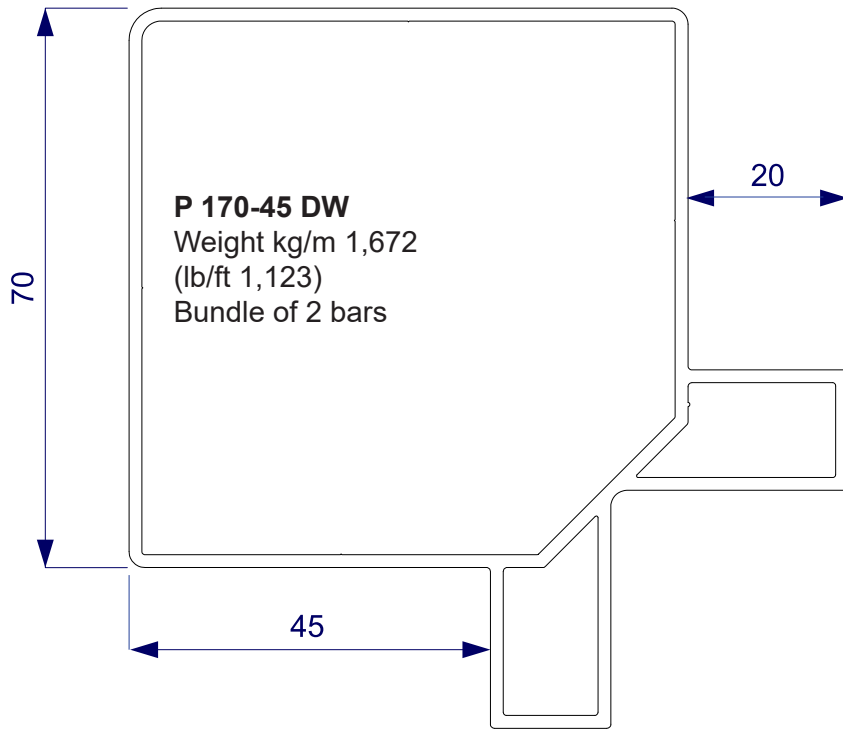


Plugs to cover the holes



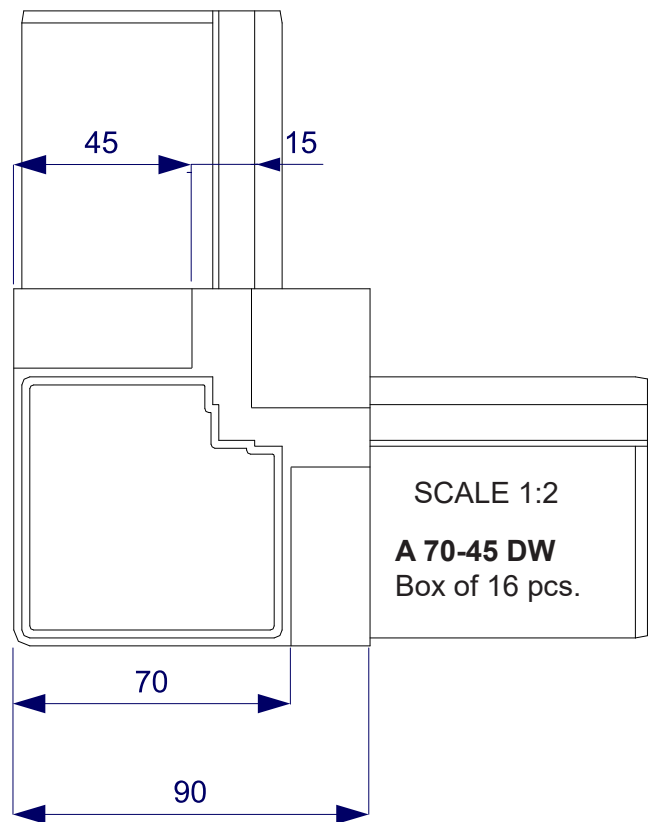
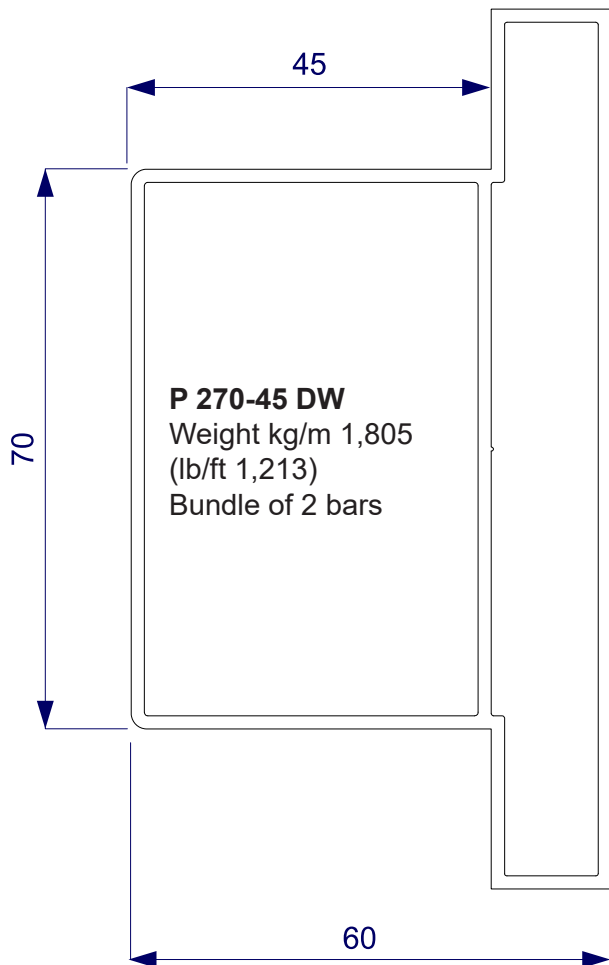
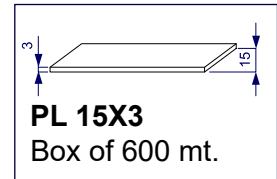
A 70-50
Box of 16 pcs.

2°) Square profiles section internally rounded, double wall to hide the screws
(section 70 panel 45/60 mm; aluminium corner)

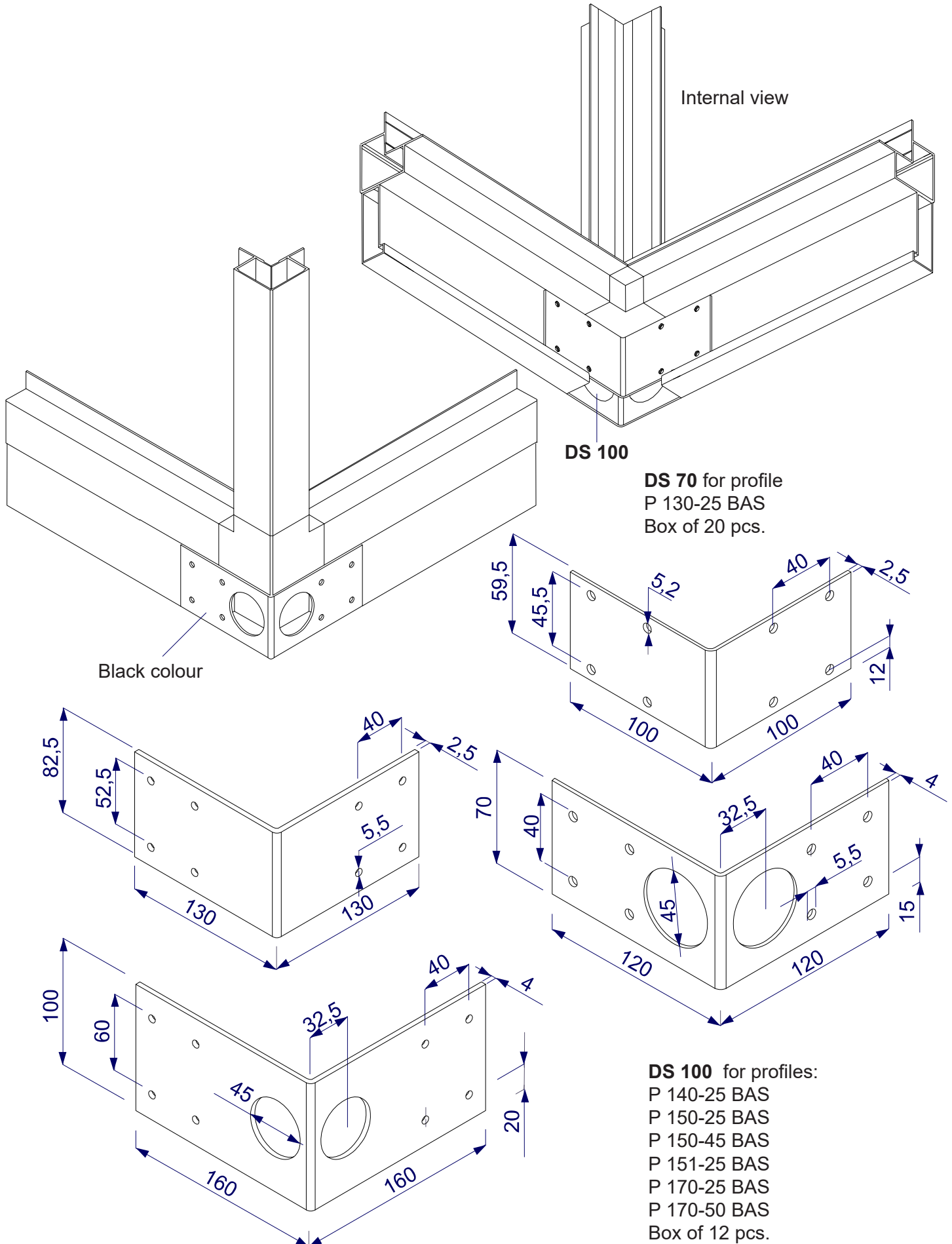


A 70-45 DW JP
Box of 75 pcs.

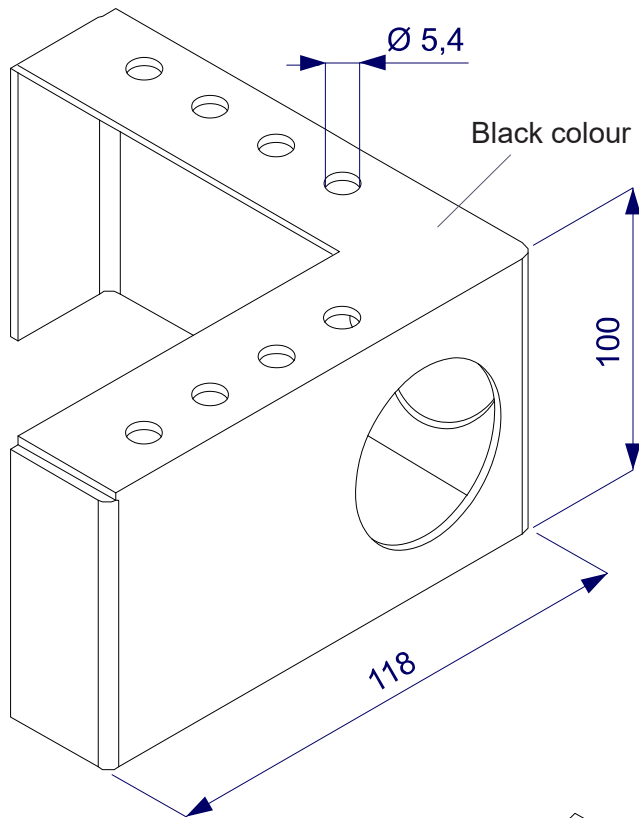
GASKET



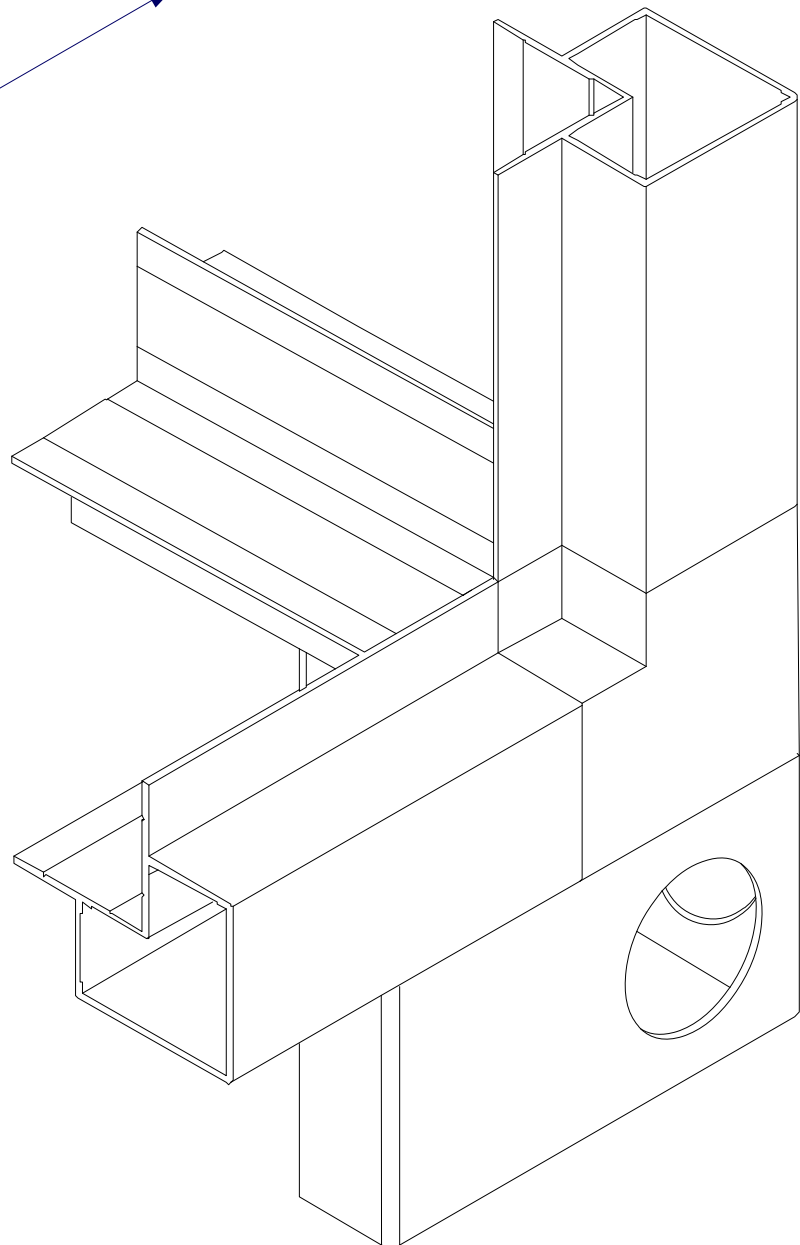
3°) Steel joint for base profiles



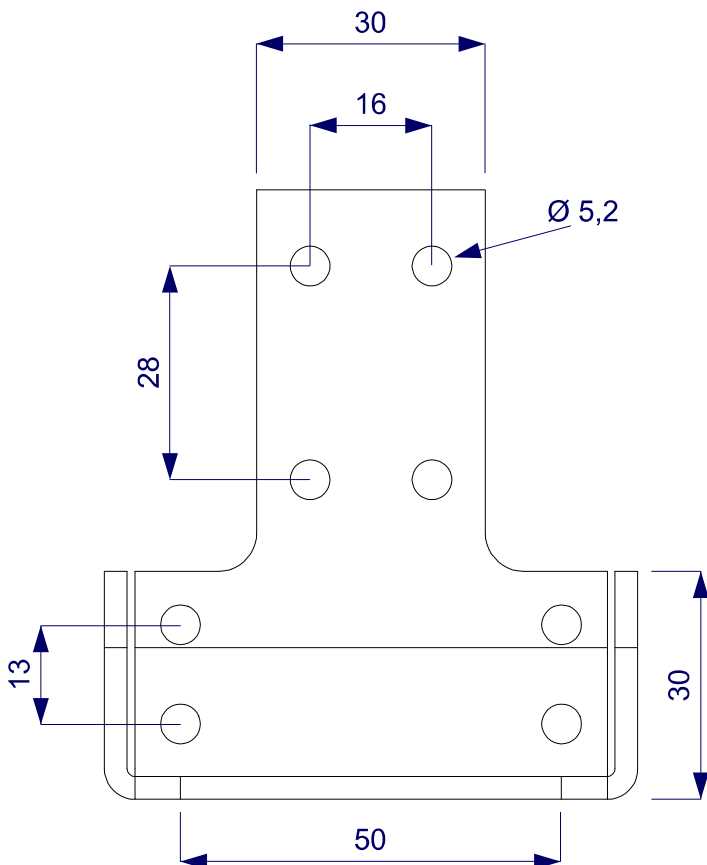
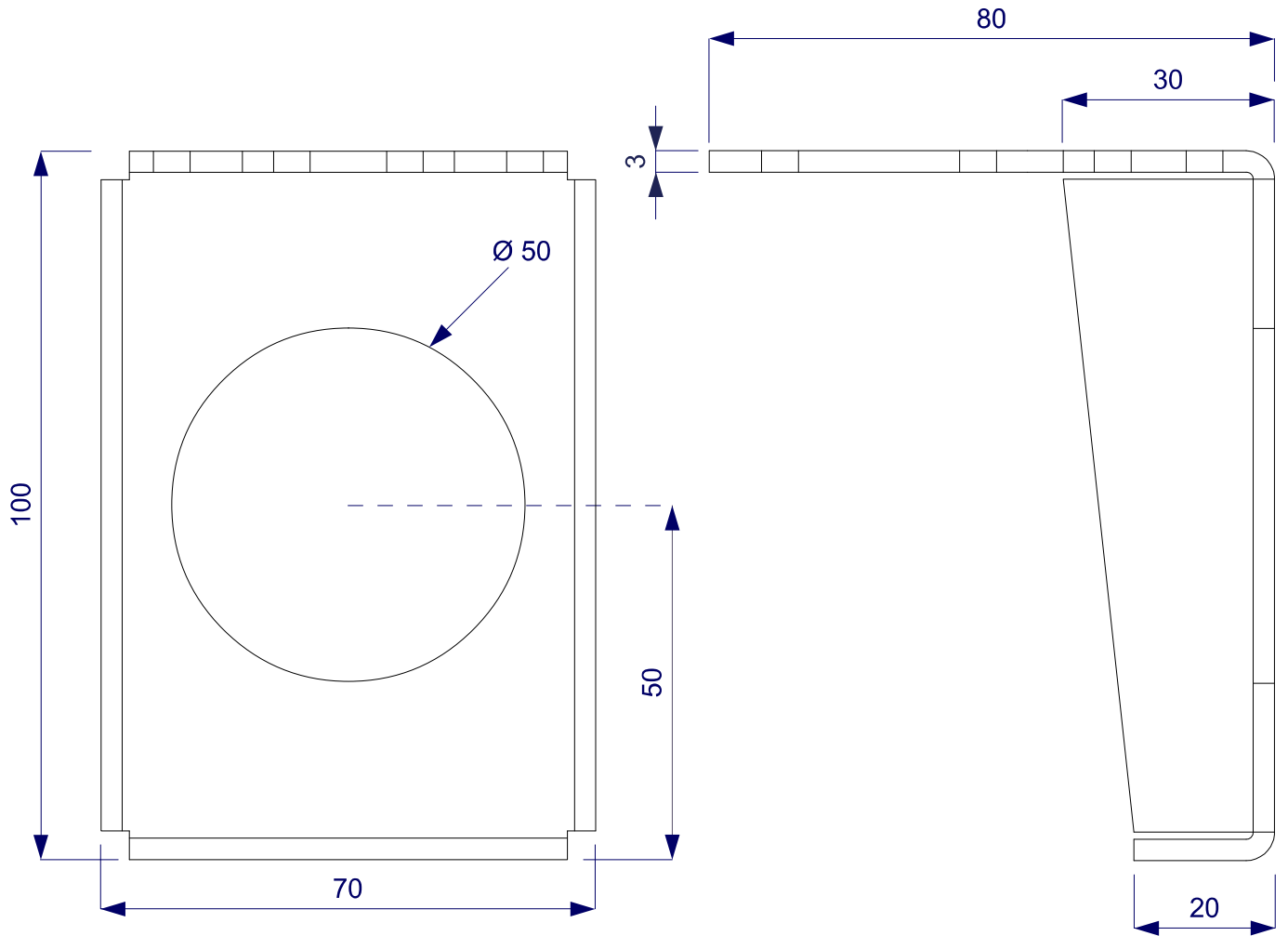
3°) Steel foot



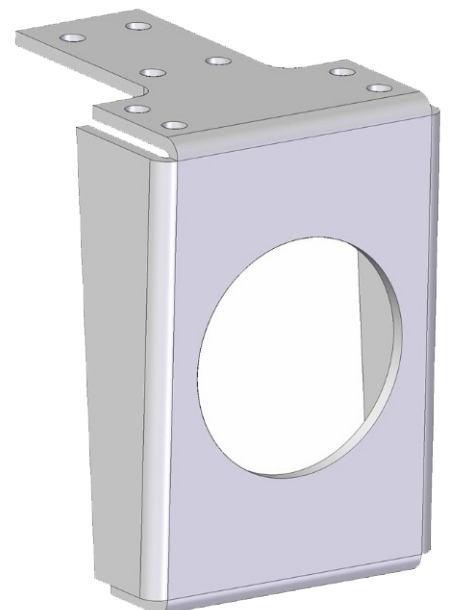
DS 105
Box of 40 pcs.



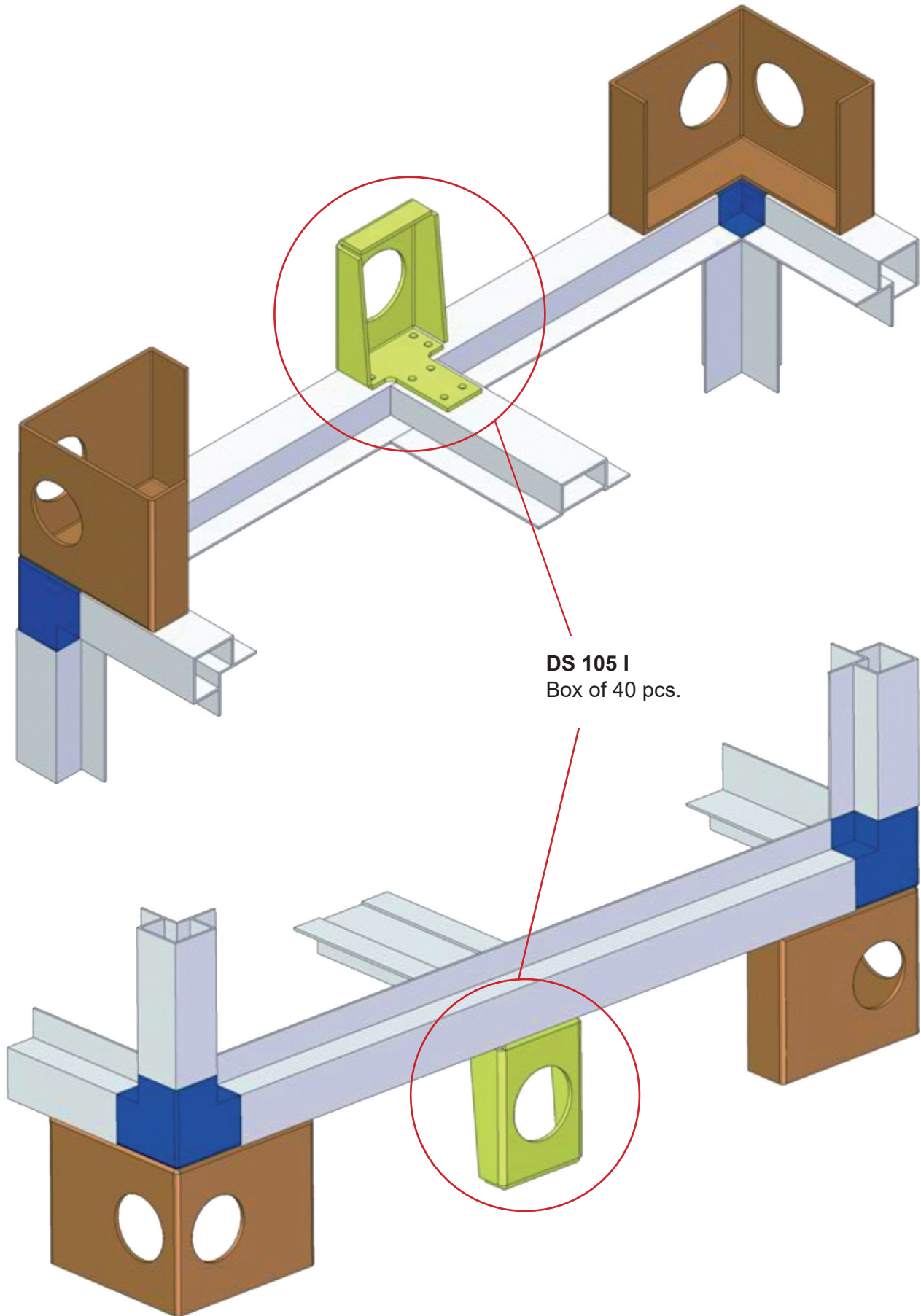
3°) Intermediate steel foot

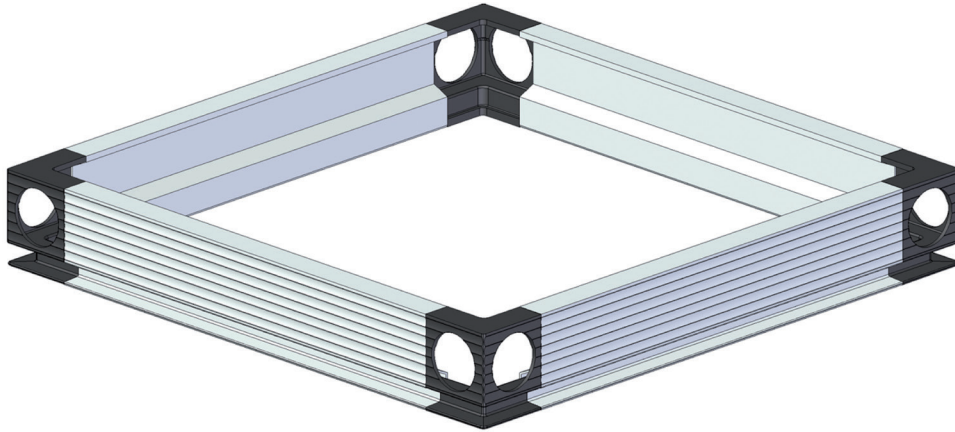


DS 105 I
Box of 40 pcs.

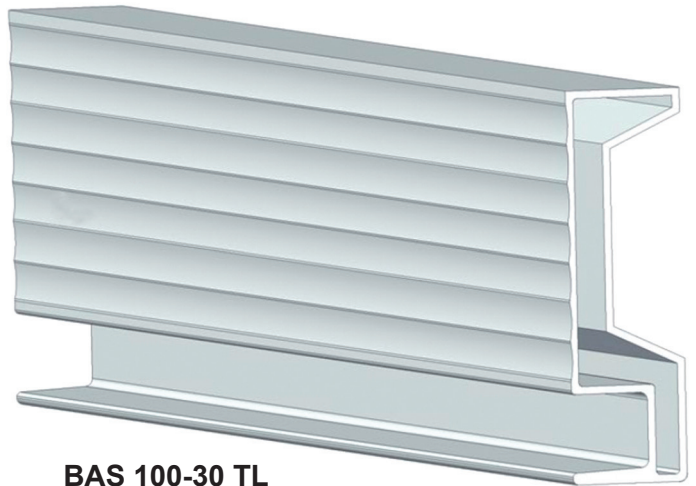


3°) Intermediate steel foot

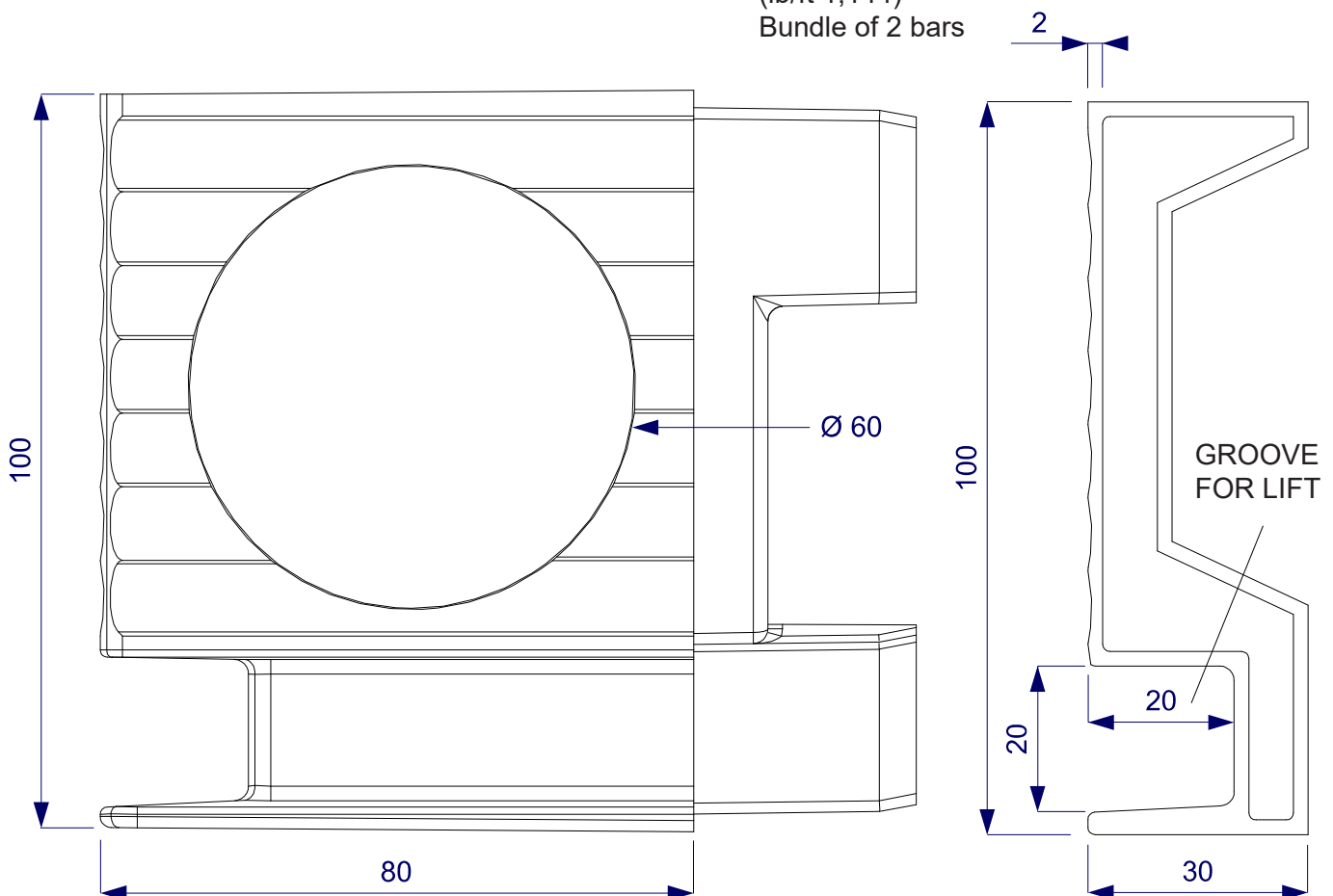




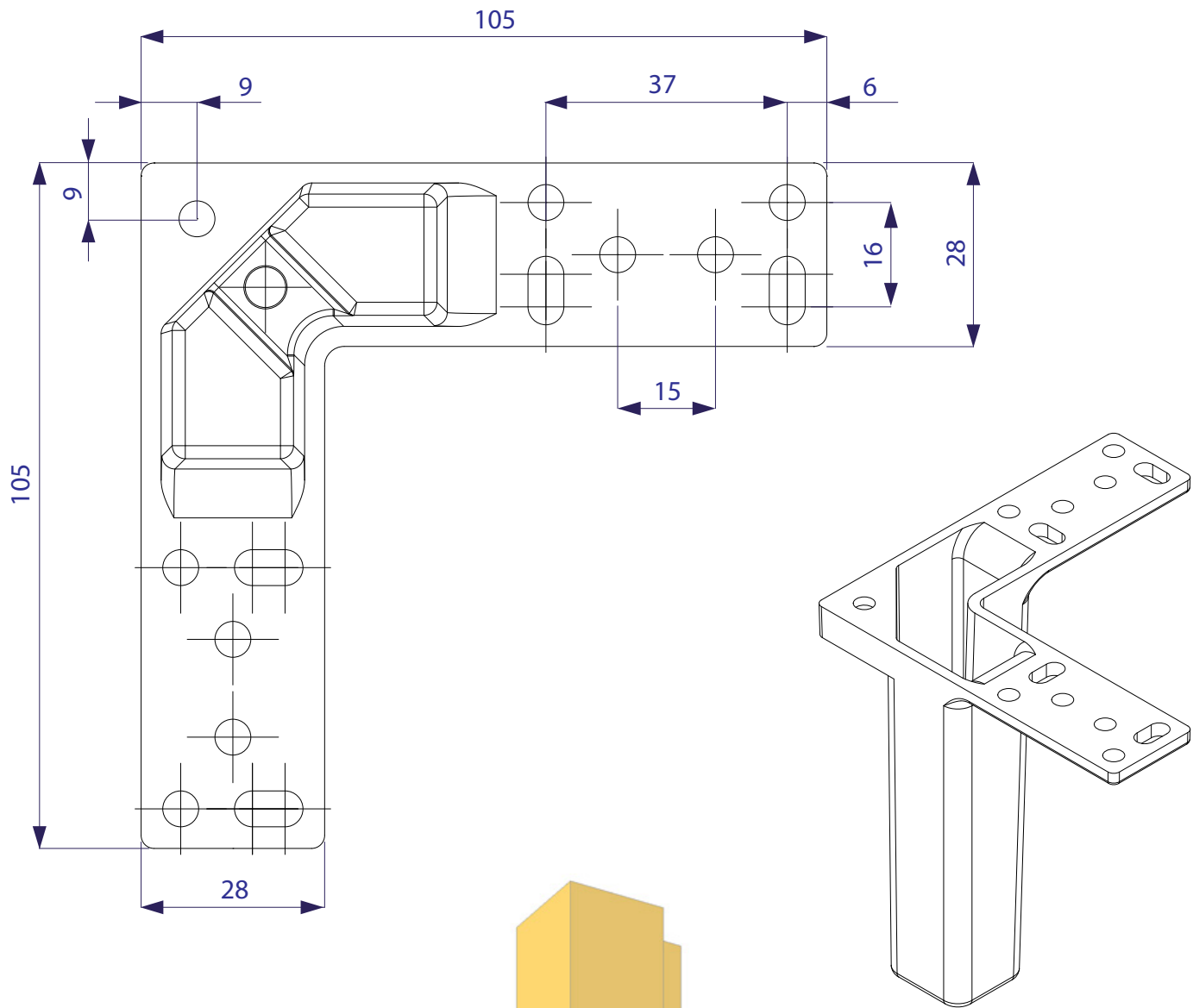
A 100
Box of 50 pcs.



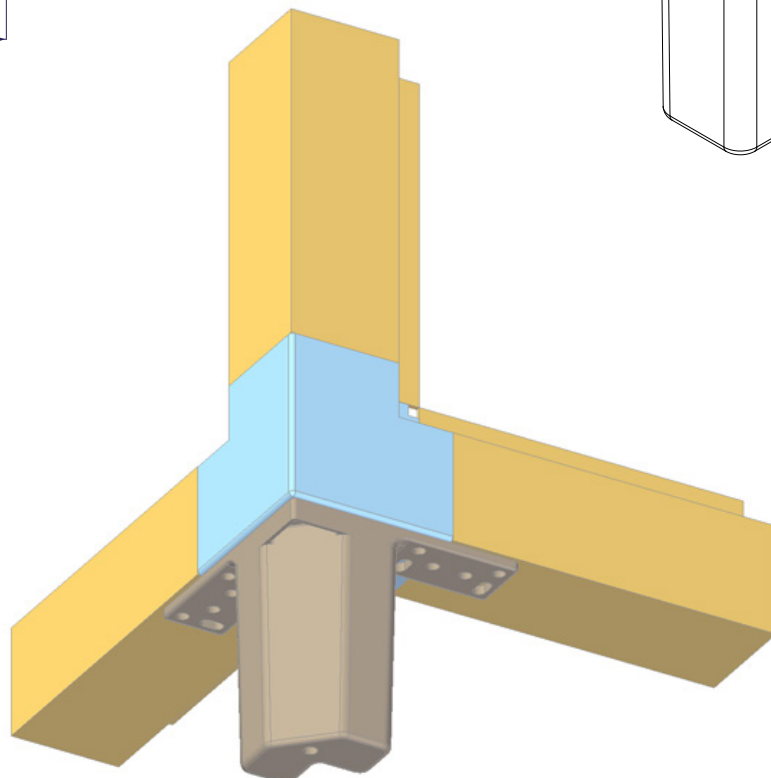
BAS 100-30 TL
Weight kg/m 1,702
(lb/ft 1,144)
Bundle of 2 bars



Aluminium foot



A 100F
Box of 74 pcs.



Sistema modulare composto da profili ed accessori per realizzare strutture con taglio termico.

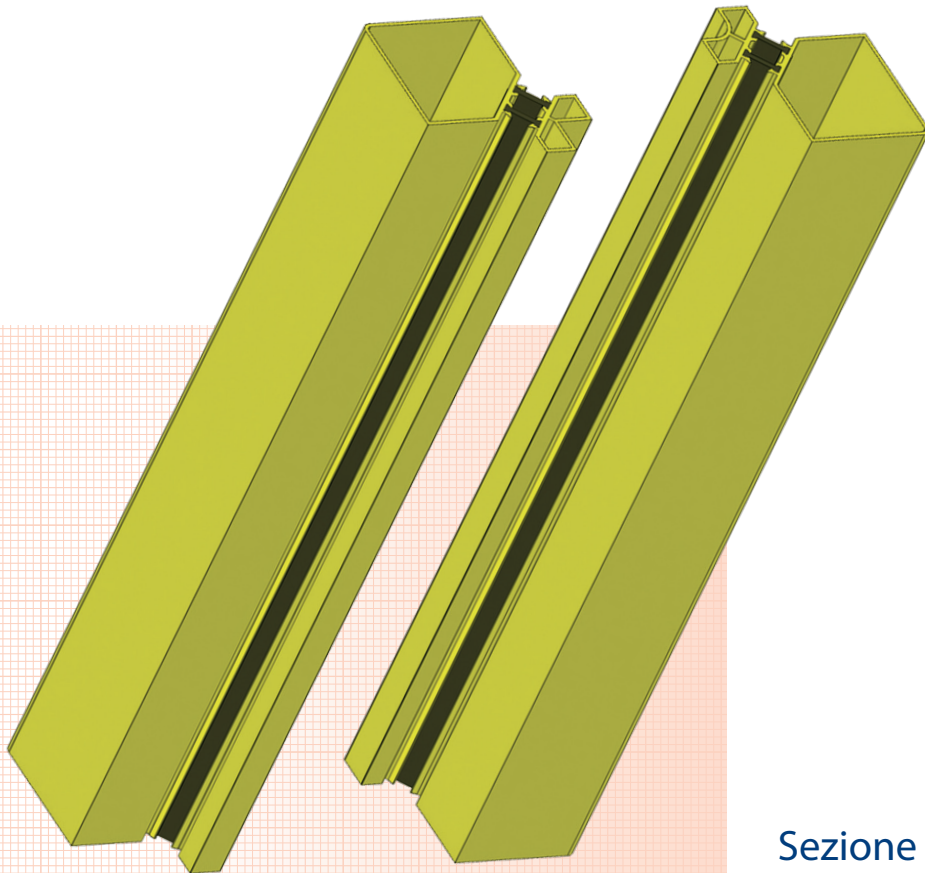
Thermal break modular frame system.

Système modulaire composé par profiles at accessoires pour la réalisation des structures en coupe thermique.

Sistema modular compuesto por perfiles y accesorios para realizar estructuras con corte térmico.

Modularer Systembaukasten für Rahmenkonstruktionen mit Thermisches trennverfahren (Aluminiumprofile, Eckverbindungen, PVC-Profile und Zubehör).

模数制组成由铝外形和附件为结构的装配。



Sezione
Section
Section
Sección
Teil
第05号

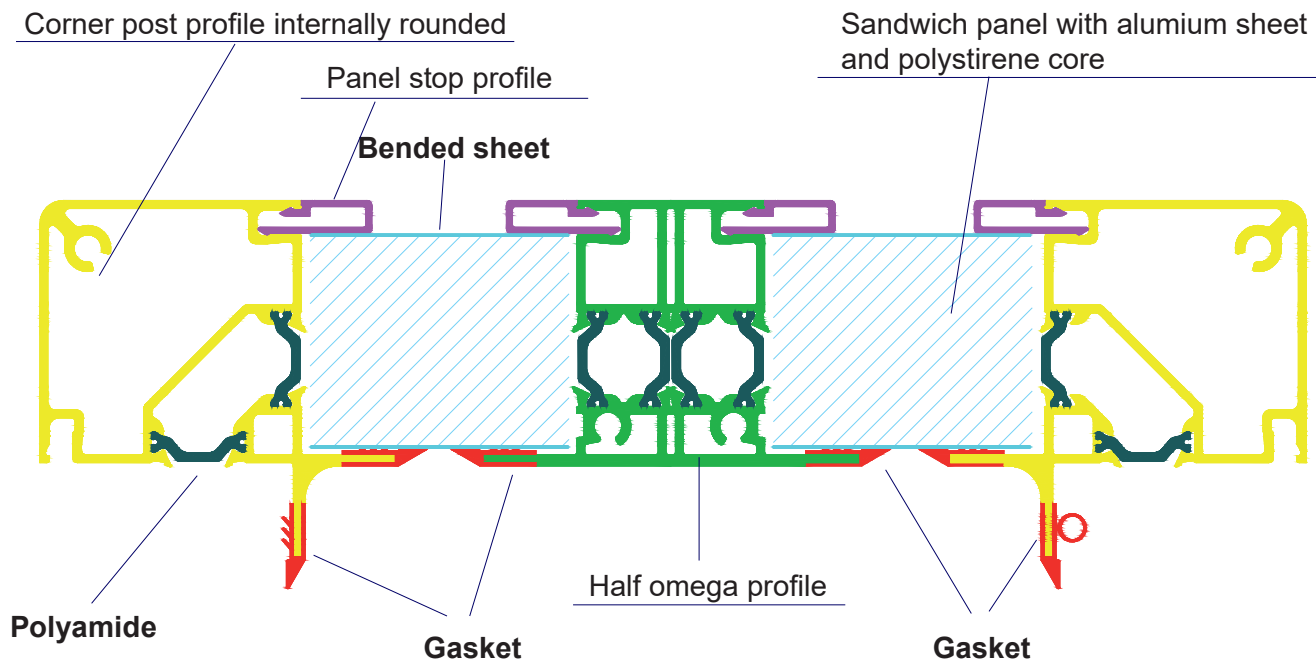
05

Our thermal break system includes pre-assembled aluminum profiles with polyamide, suitable for panels of thickness from 25 to 100 mm.

The thermal break profiles, together with their nylon corners joints, are both available with square and blunted section. It is also available an internally radius profile that helps to maintain the cleanliness inside the unit. The sections of the thermal break profiles are available in different sizes in order to build small or large structures.

This system guarantees high performances in terms of thermal transmittance and thermal bridge, which classify it, at least, class T2-TB2 according to the requirements of the UNI EN 1886. This result is also achieved thanks to the use of special gaskets which ensure air tightness at all points of the unit between the panel and profile (GS-20 / G002).

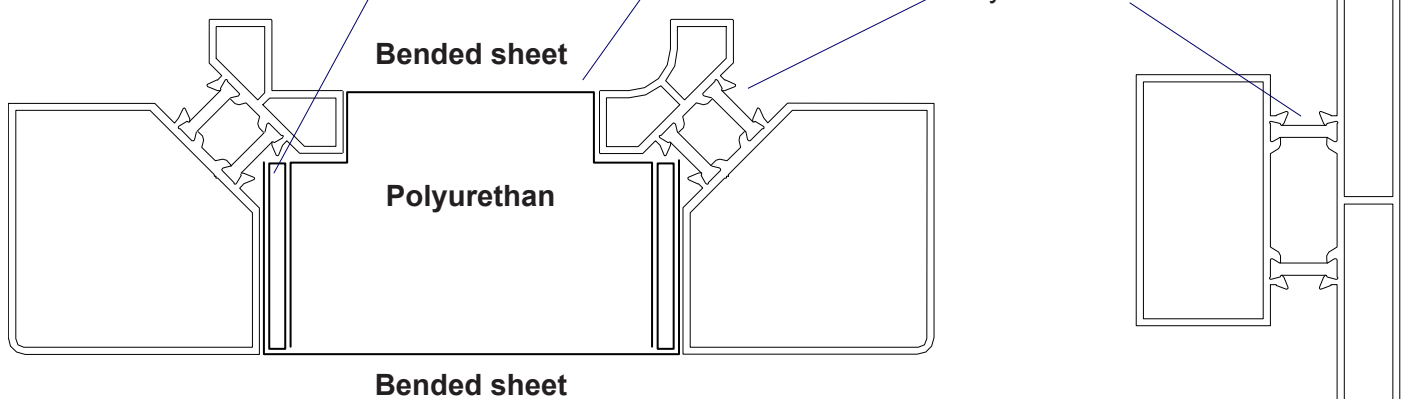
It is also available a thermal break system with PVC profiles to build thermal break frames with different sizes than those you obtain with the pre-assembled profiles series.



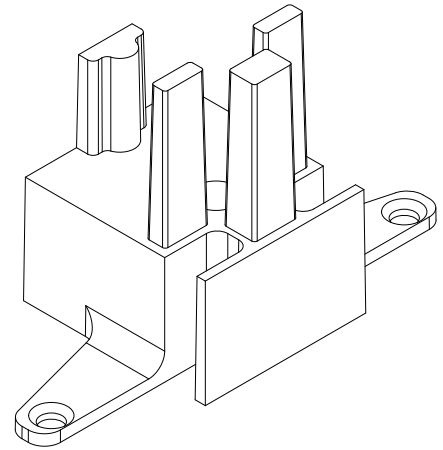
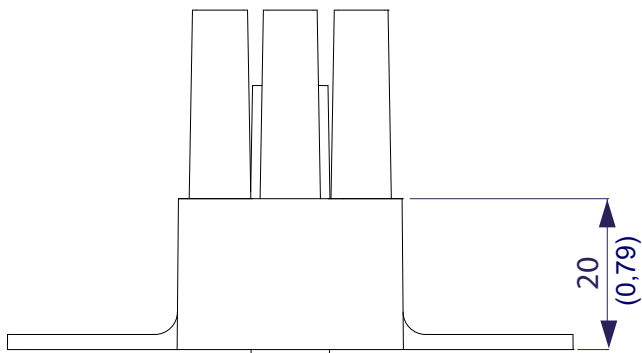
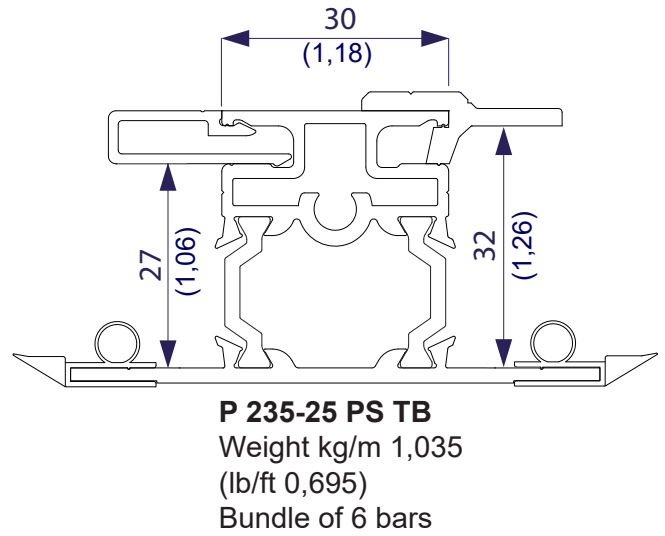
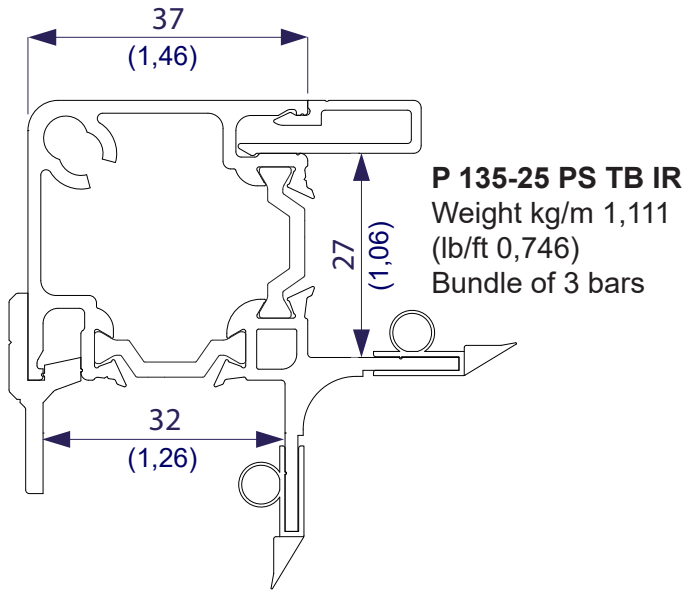
Bars of insulating material (PVC, nylon) to isolate the panel

Double height panel (bended steel) with polyurethan or rockwool

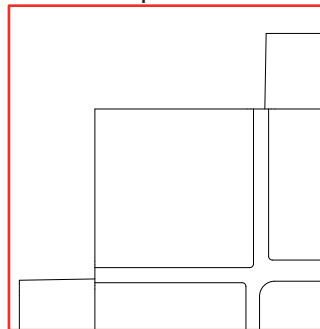
Polyamide



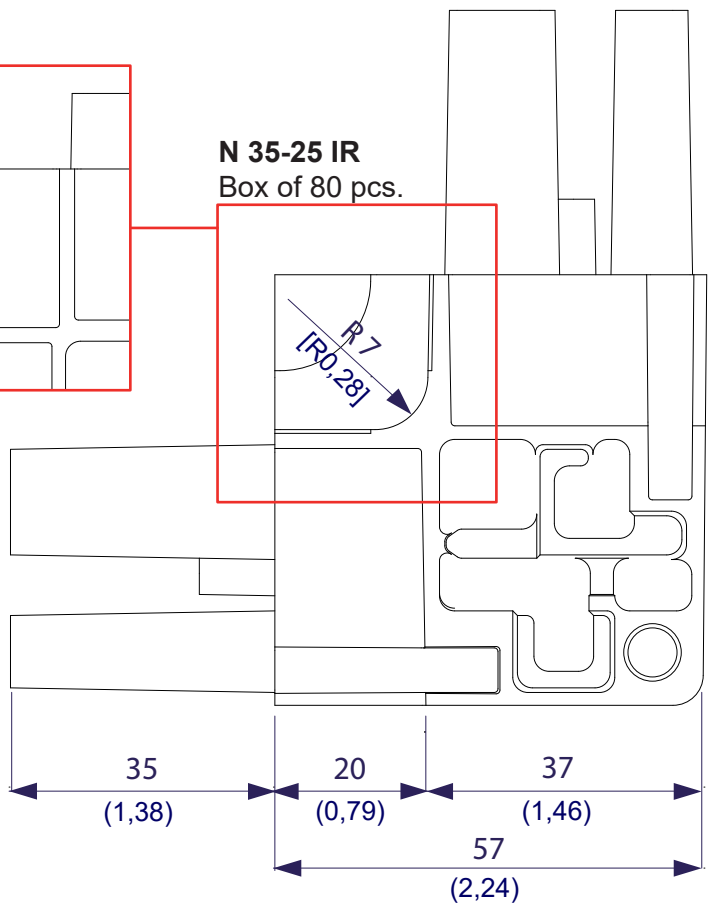
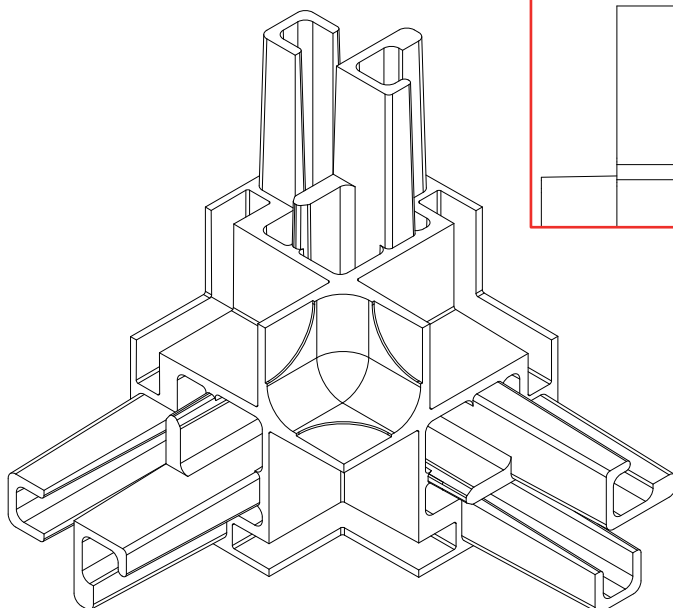
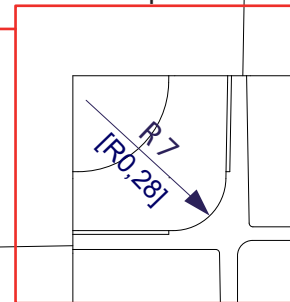
Square profiles (section **35** panel **25/30** mm; nylon corner)
Pre-assembled thermal break profile with polyamide



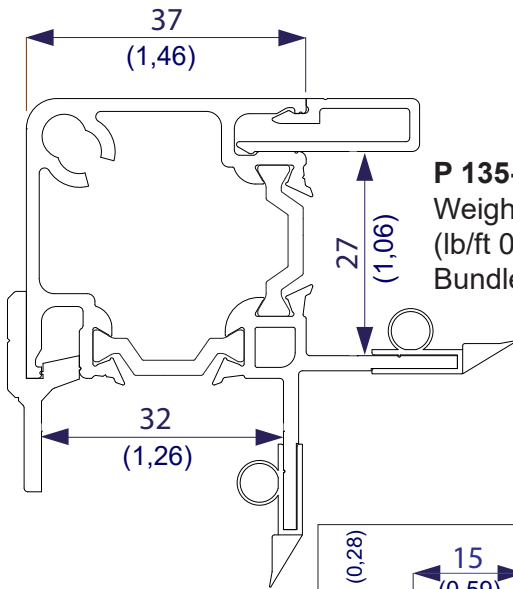
N 35-25
Box of 80 pcs.



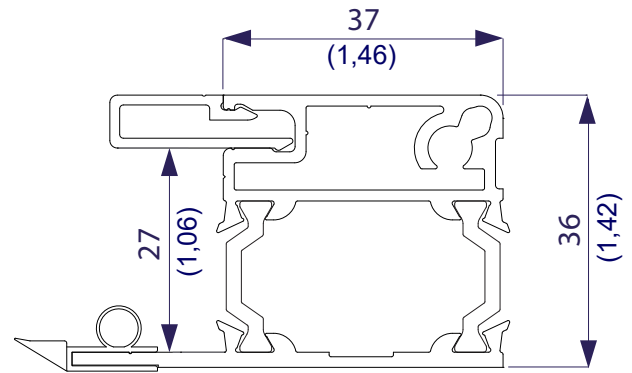
N 35-25 IR
Box of 80 pcs.



Square profiles (section 35 panel 25/30 mm; nylon corner)
Pre-assembled thermal break profile with polyamide



P 135-25 PS TB
Weight kg/m 1,051
(lb/ft 0,726)
Bundle of 3 bars



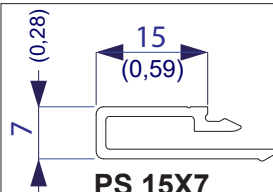
P 235-25_2 PS TB
Weight kg/m 0,979
(lb/ft 0,658)
Bundle of 4 bars

GASKET

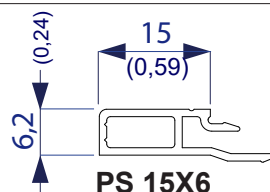
G002
Bundle of 100 mt.

GS-20
Box of 1.000 pcs.

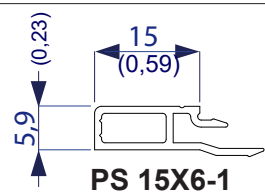
PVC PS C
Bundle of 120 mt.



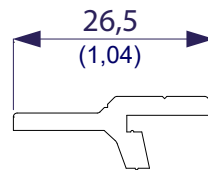
PS 15X7
Weight kg/m 0,179
(lb/ft 0,120)
Bundle of 10 bars



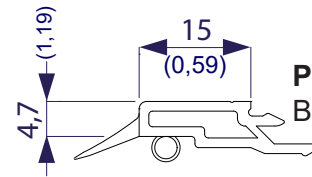
PS 15X6
Weight kg/m 0,145
(lb/ft 0,097)
Bundle of 10 bars



PS 15X6-1
Weight kg/m 0,144
(lb/ft 0,097)
Bundle of 10 bars

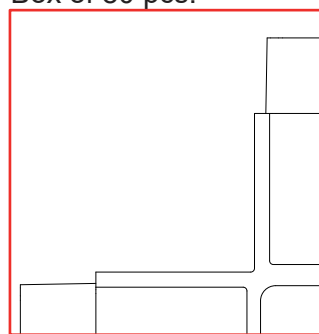


PS-P 30-50
Weight kg/m 0,234
(lb/ft 0,157)
Bundle of 10 bars

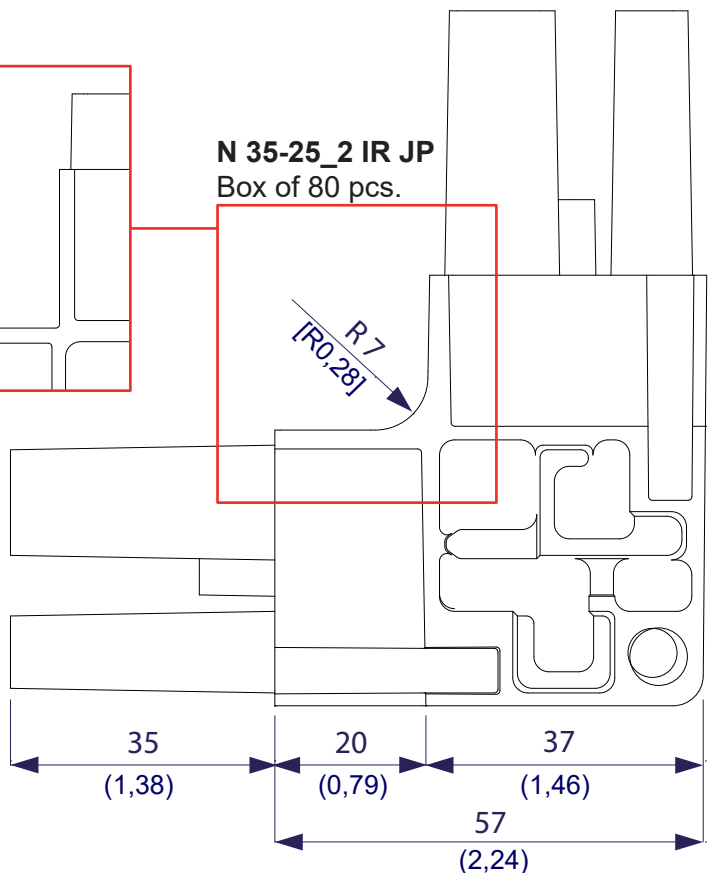
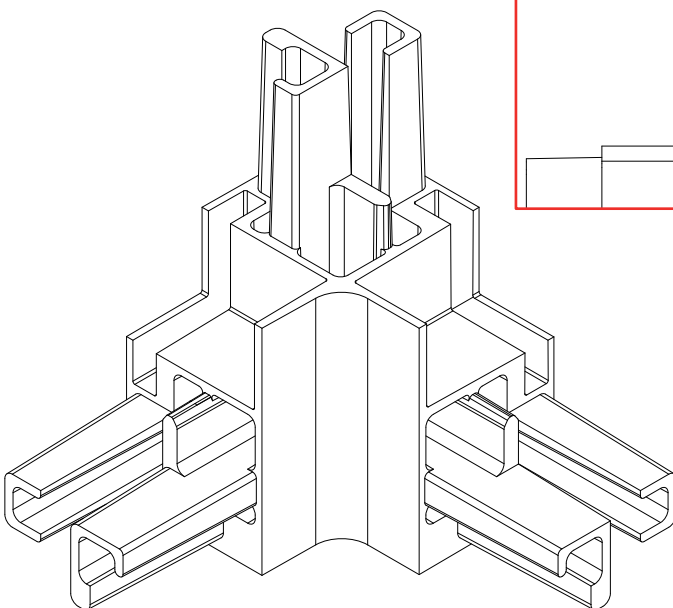
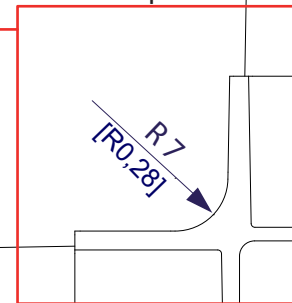


PVC-PS 15X6
Bundle of 18 bars

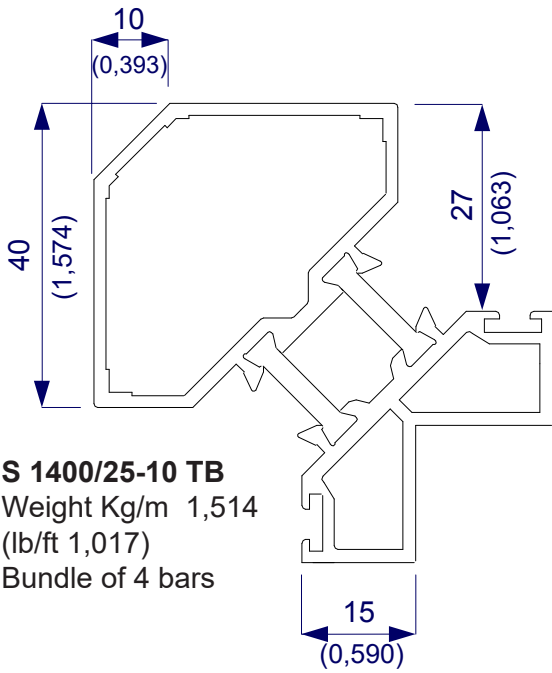
N 35-25_2 JP
Box of 80 pcs.



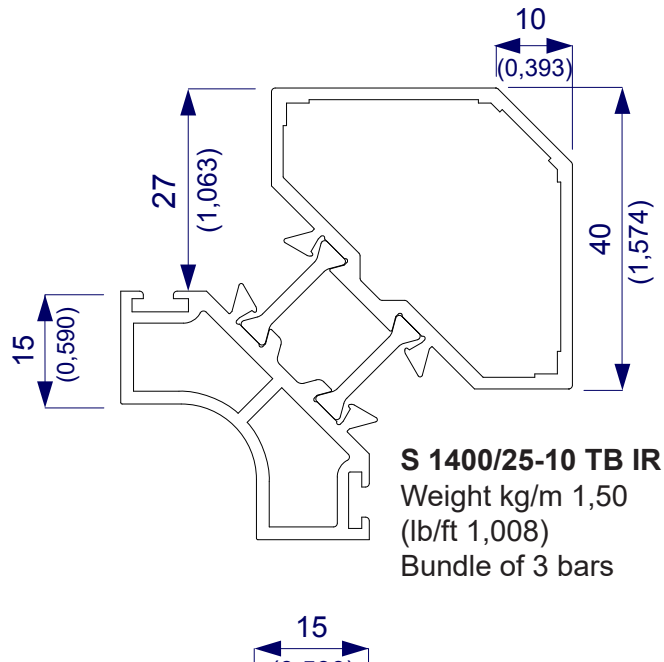
N 35-25_2 IR JP
Box of 80 pcs.



Blunted profiles (section 40 panel 25/40 mm; nylon corner)
Pre-assembled thermal break profile with polyamide

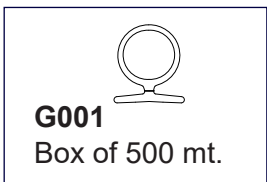


S 1400/25-10 TB
Weight Kg/m 1,514
(lb/ft 1,017)
Bundle of 4 bars

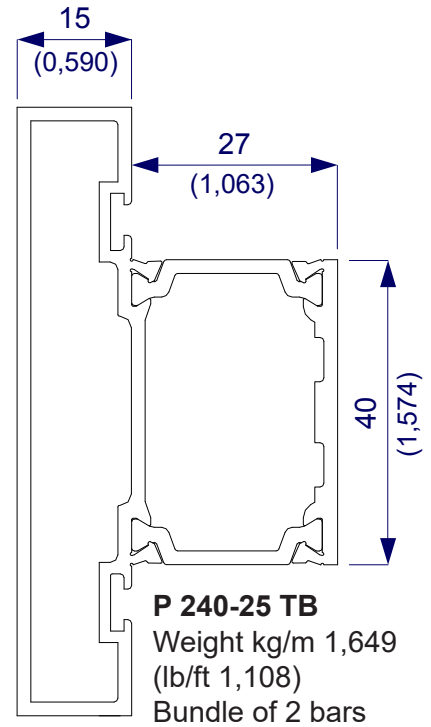
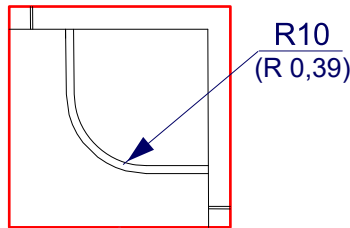


S 1400/25-10 TB IR
Weight kg/m 1,50
(lb/ft 1,008)
Bundle of 3 bars

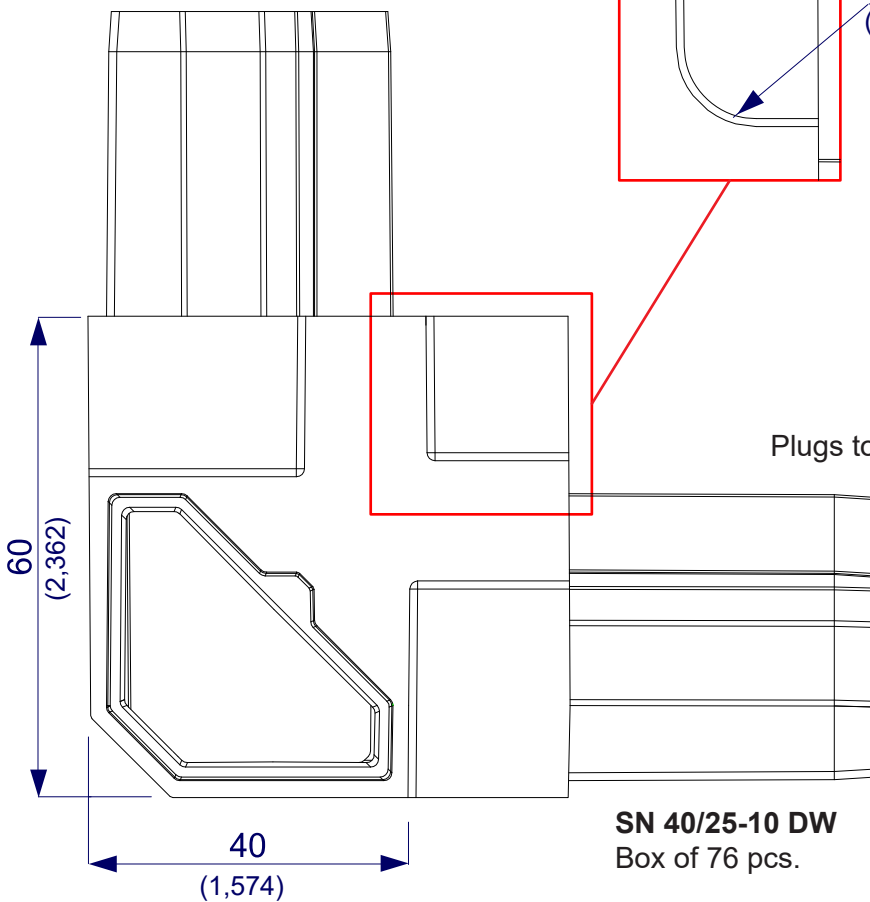
GASKET



SN 40/25-10 DW IR
Box of 76 pcs.

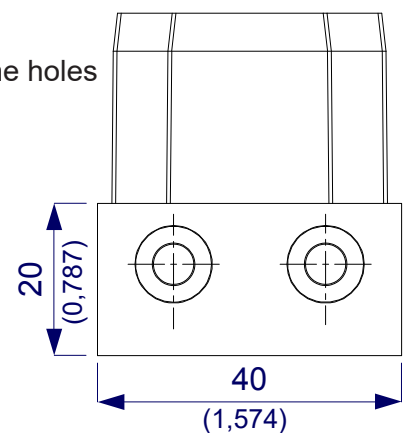


P 240-25 TB
Weight kg/m 1,649
(lb/ft 1,108)
Bundle of 2 bars



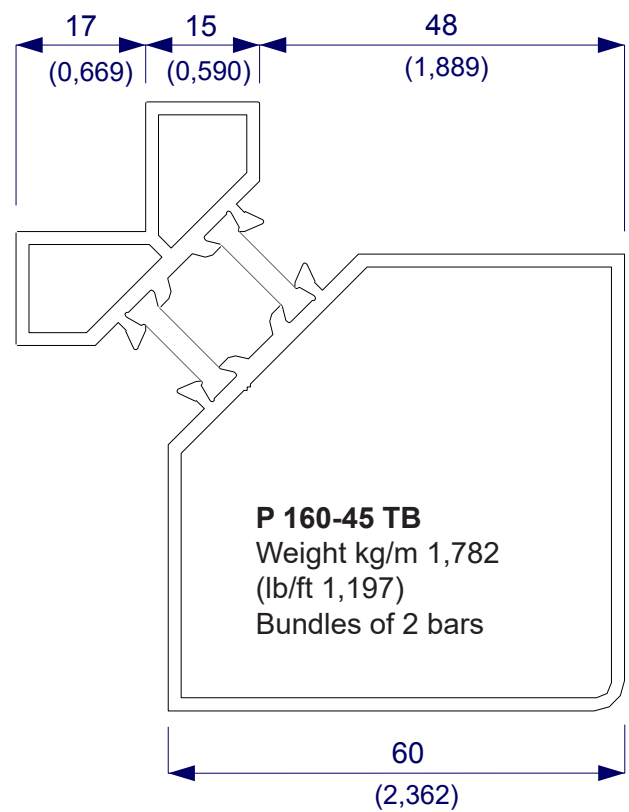
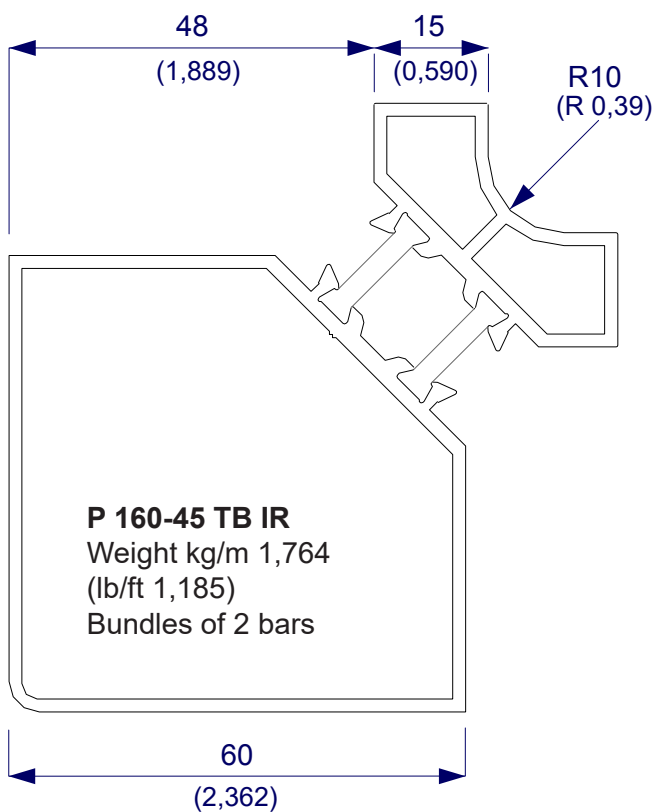
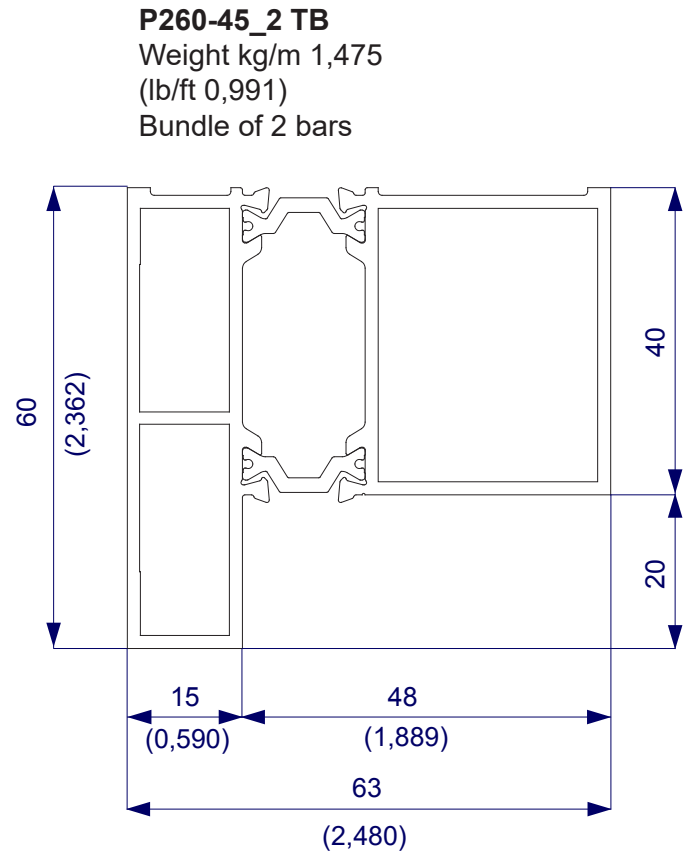
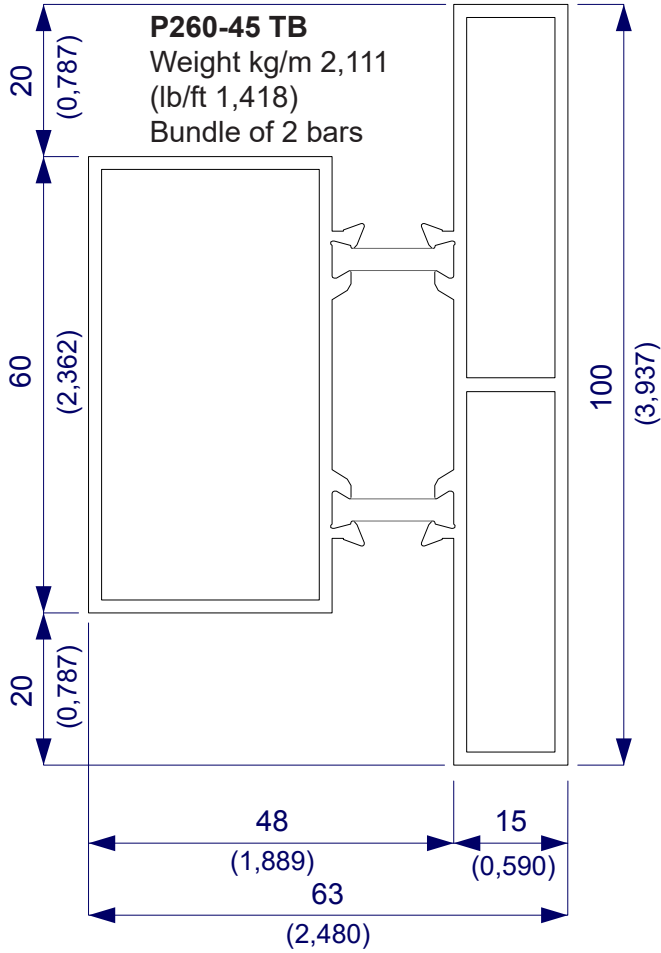
SN 40/25-10 DW
Box of 76 pcs.

Plugs to cover the holes



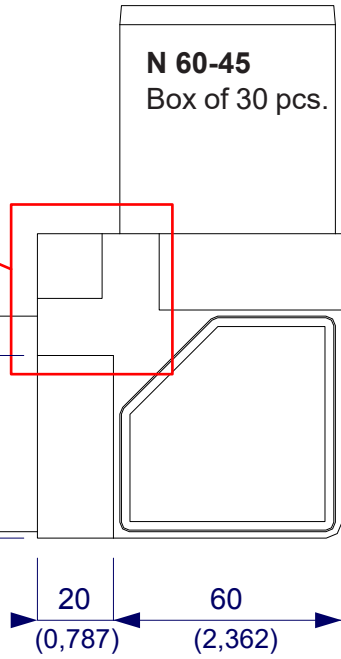
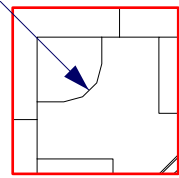
N 40 JP
Box of 200 pcs.

Square profiles (section 60 panel 45/60 mm; nylon corner)
Pre-assembled thermal break profile with polyamide

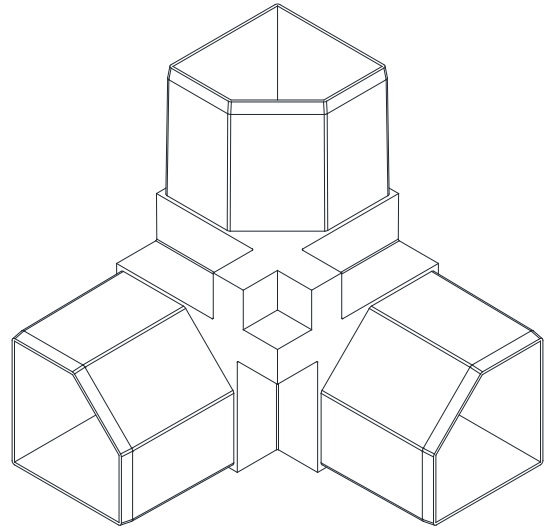


Square profiles (section 60 panel 45/60 mm; nylon corner)
Pre-assembled thermal break profile with polyamide

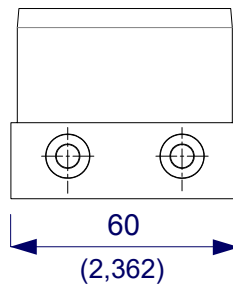
N 60-45 IR
Box of 30 pcs.



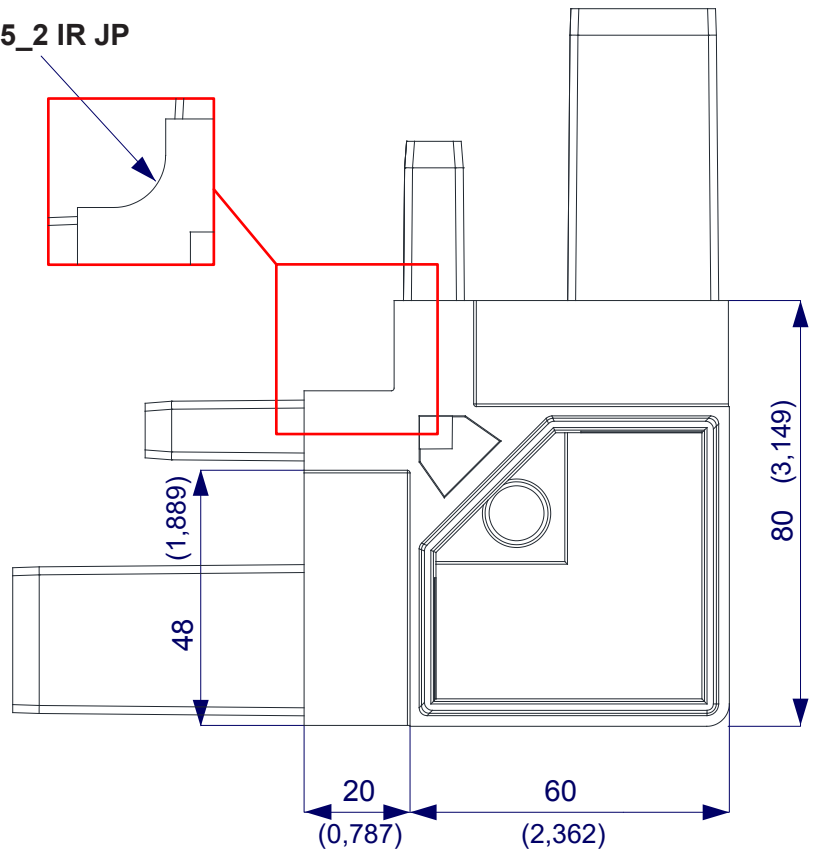
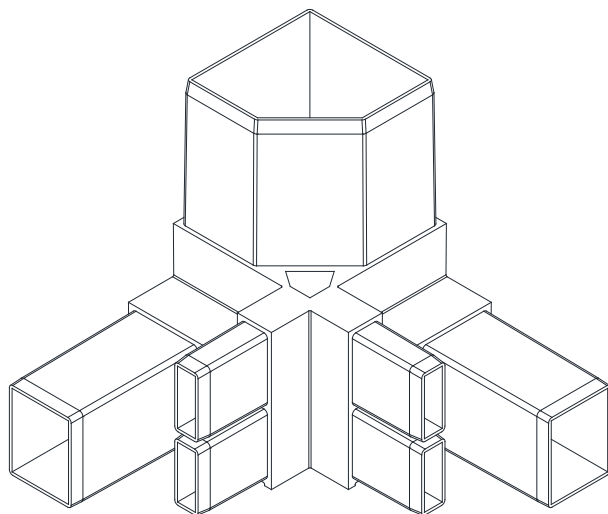
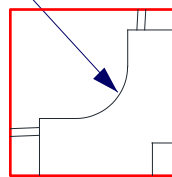
N 60-45
Box of 30 pcs.



N 60 JP
Box of 200 pcs.



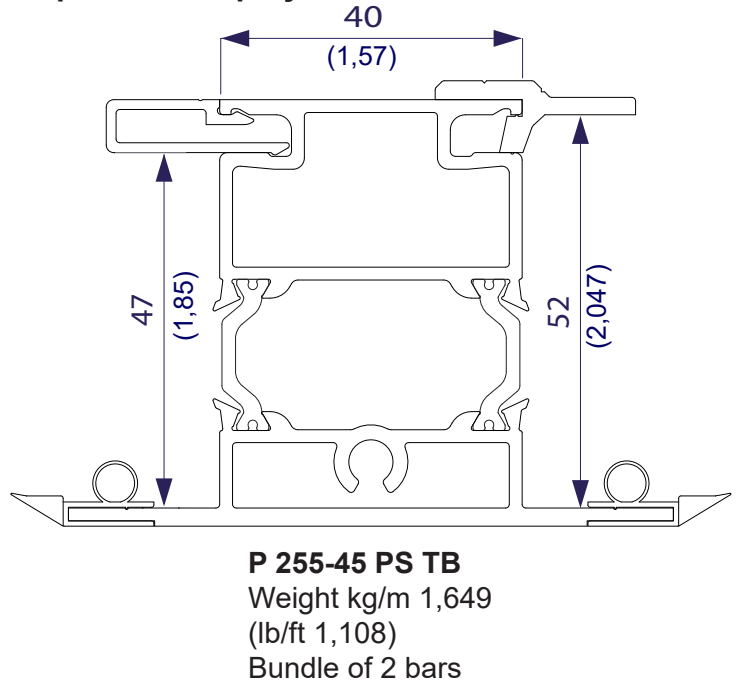
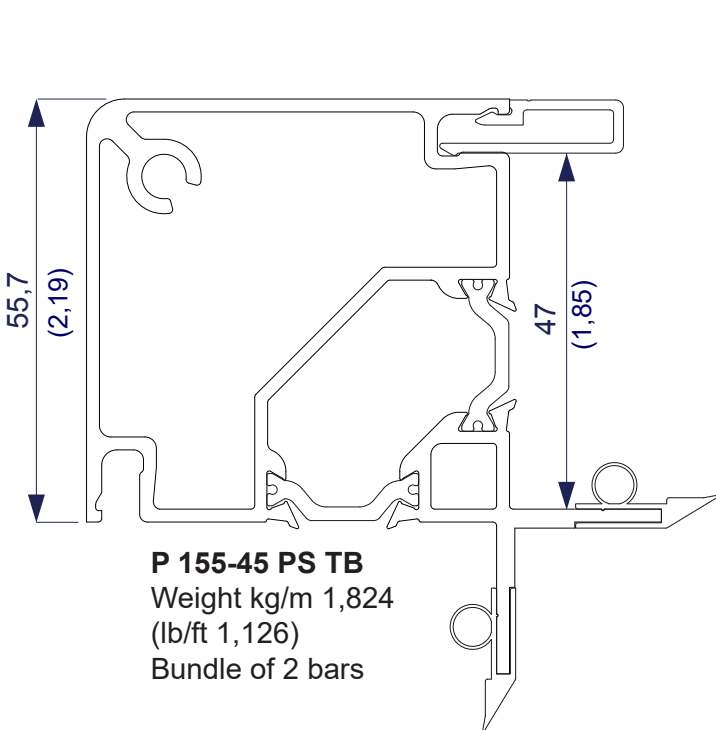
N 60-45_2 IR JP



N 60-45_2 JP

NOT TO SCALE

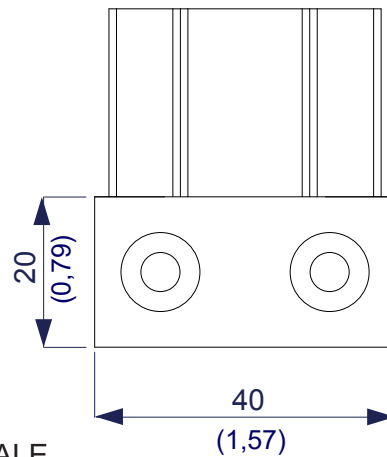
Square profiles (section 55 panel 45/50 mm; nylon corner)
Pre-assembled thermal break profile with polyamide



GASKET

G002 Bundles of 100 mt.
GS-20 Box of 1.000 pcs.
PVC PS C Bundles of 120 mts.

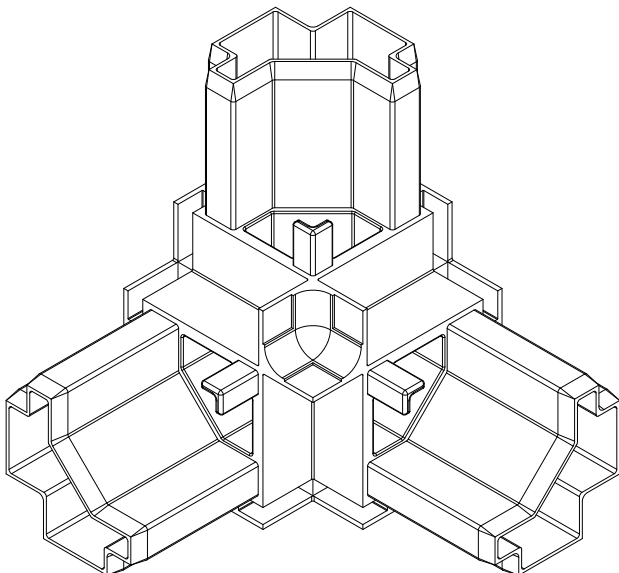
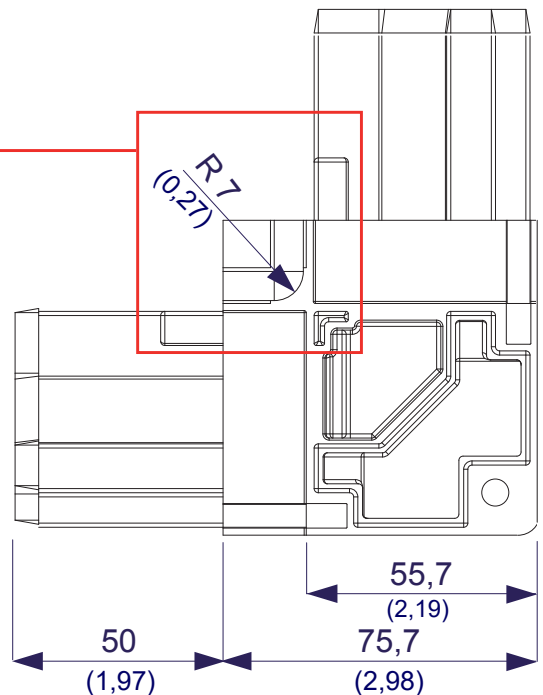
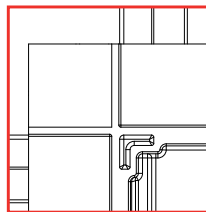
Plugs to cover the holes



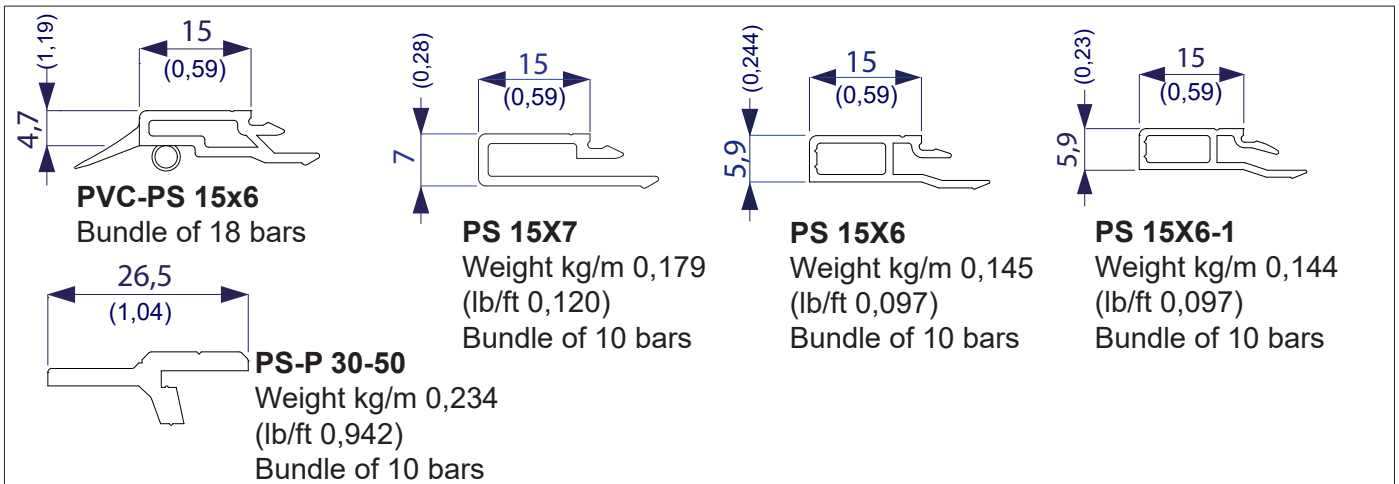
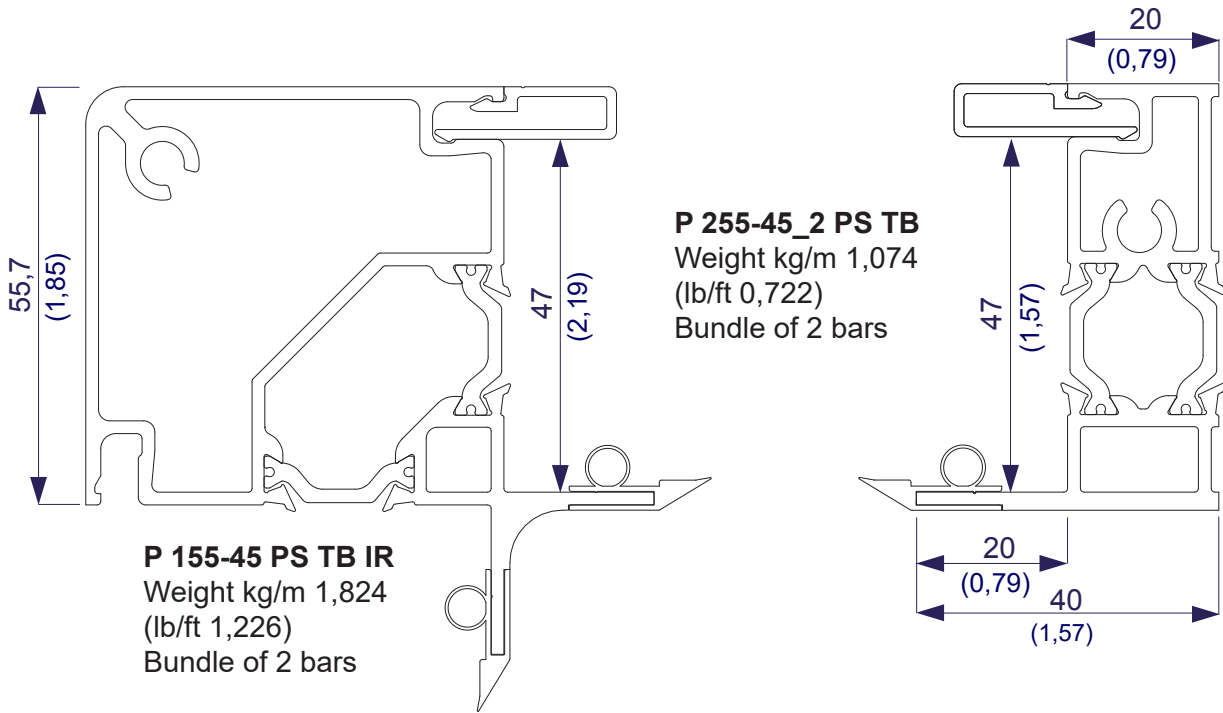
NOT TO SCALE

N 55-45
Box of 40 pcs.

N 55-45 IR
Box of 40 pcs.

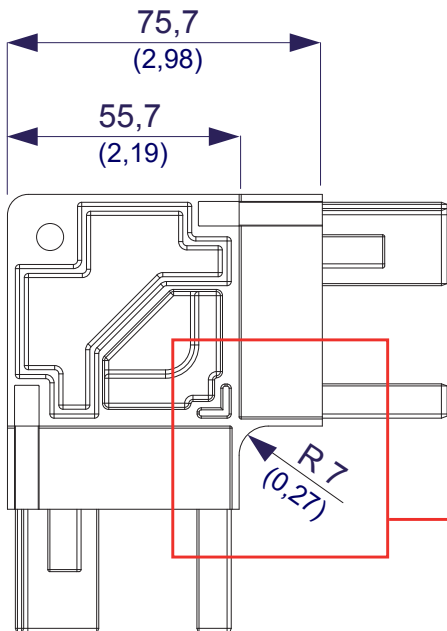


Square profiles (section 55 panel 45/50 mm; nylon corner)
Pre-assembled thermal break profile with polyamide

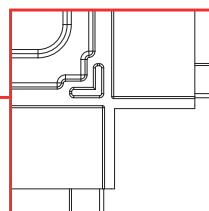


N 55-45_2 IR JP

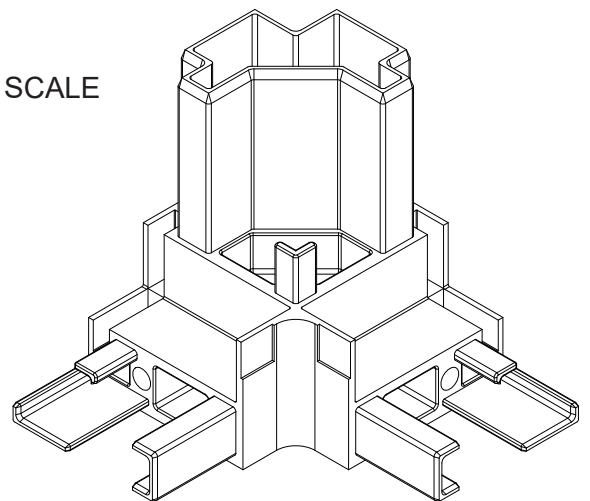
Box of 80 pcs.



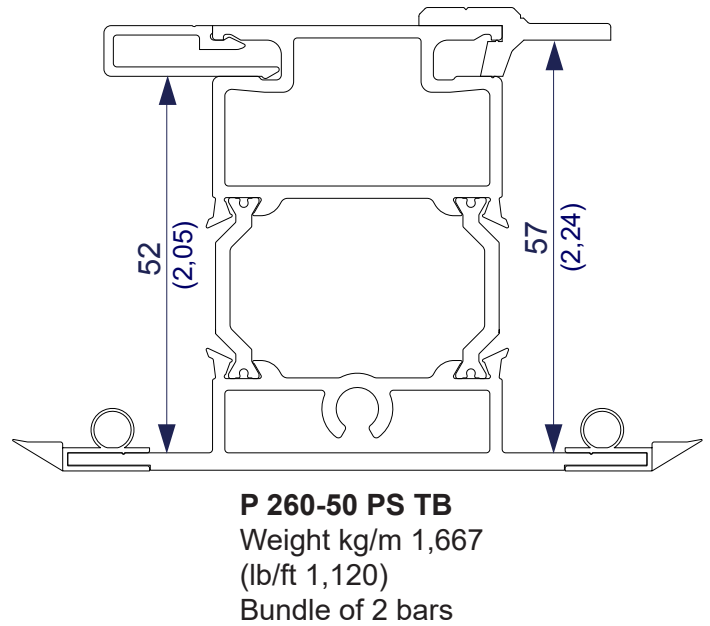
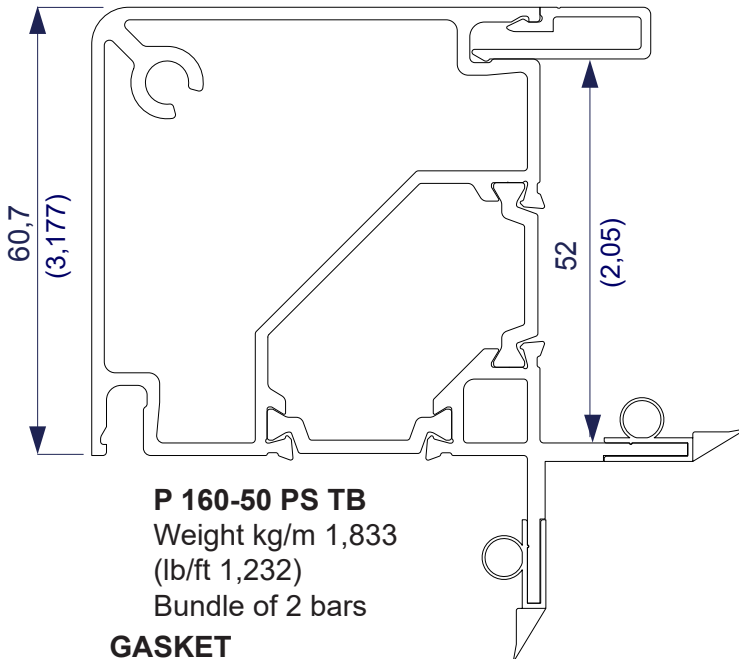
N 55/45_2 JP
Box of 80 pcs.




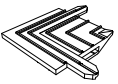

NOT TO SCALE



Square profiles (section 60 panel 50/55 mm; nylon corner)
Pre-assembled thermal break profile with polyamide

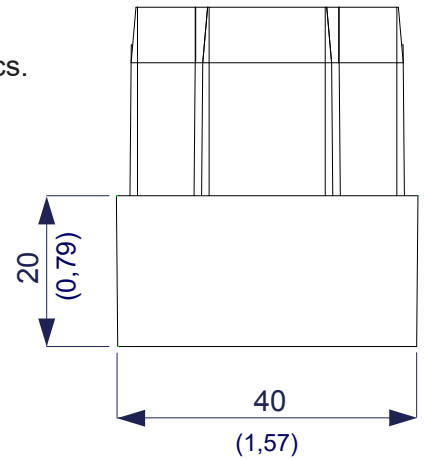
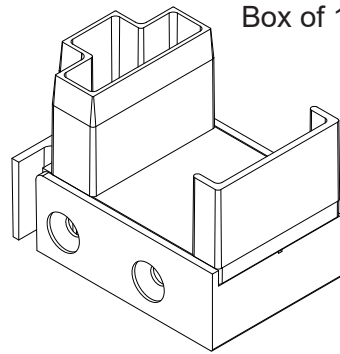


GASKET

- 
G002
 Bundles of 100 mt.
- 
GS-20
 Box of 1.000 pcs.
- 
PVC PS C
 Bundles of 120 mts.

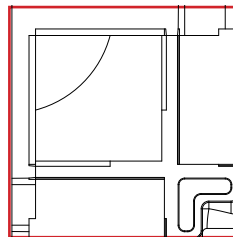
N 60-50 JP

Box of 100 pcs.



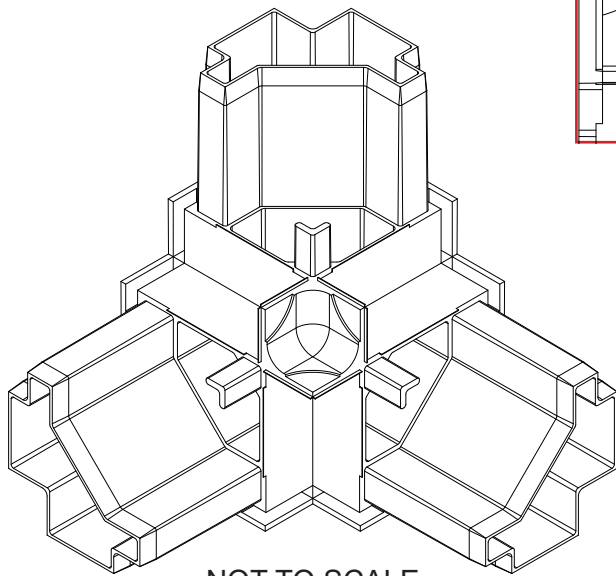
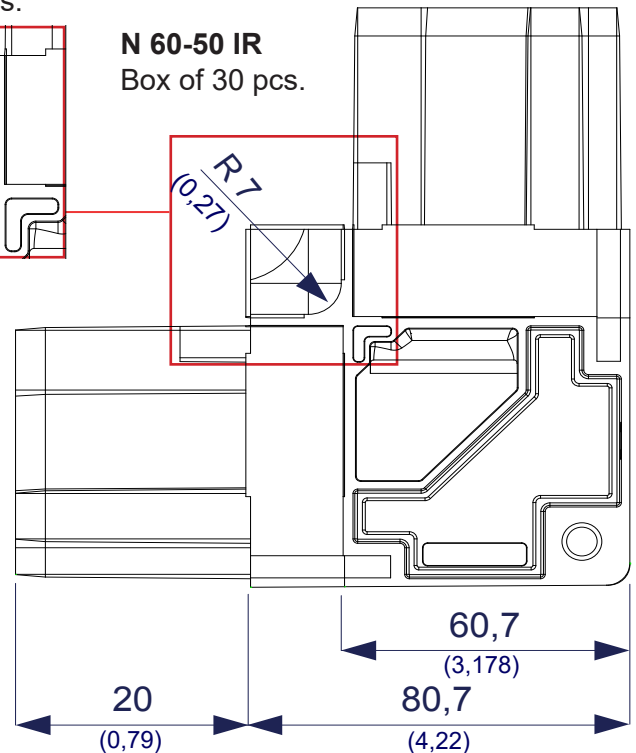
N 60-50

Box of 30 pcs.



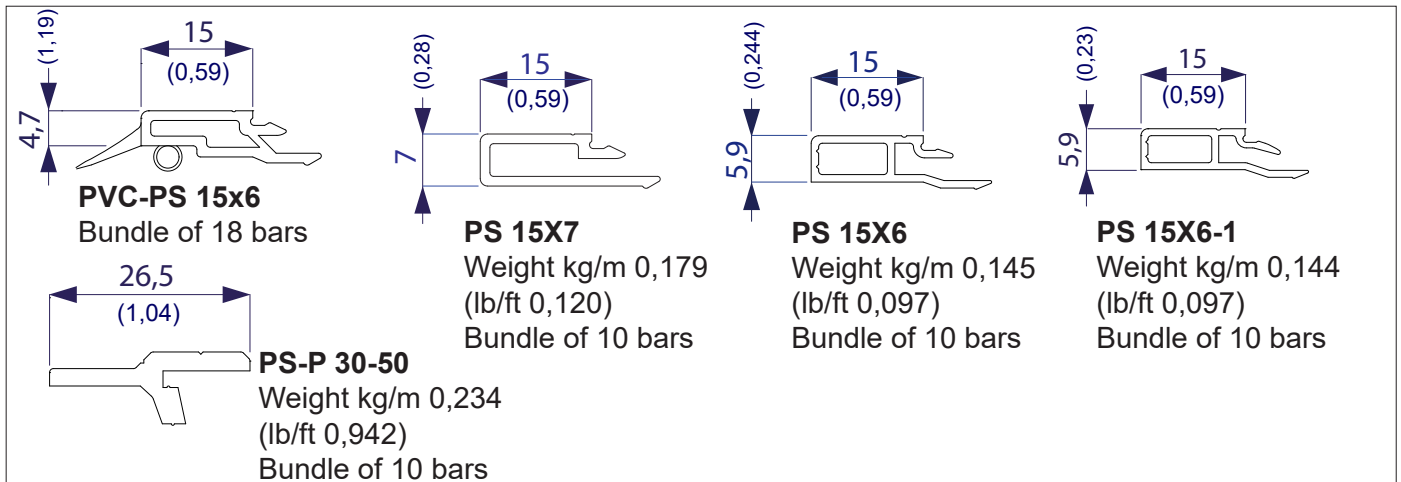
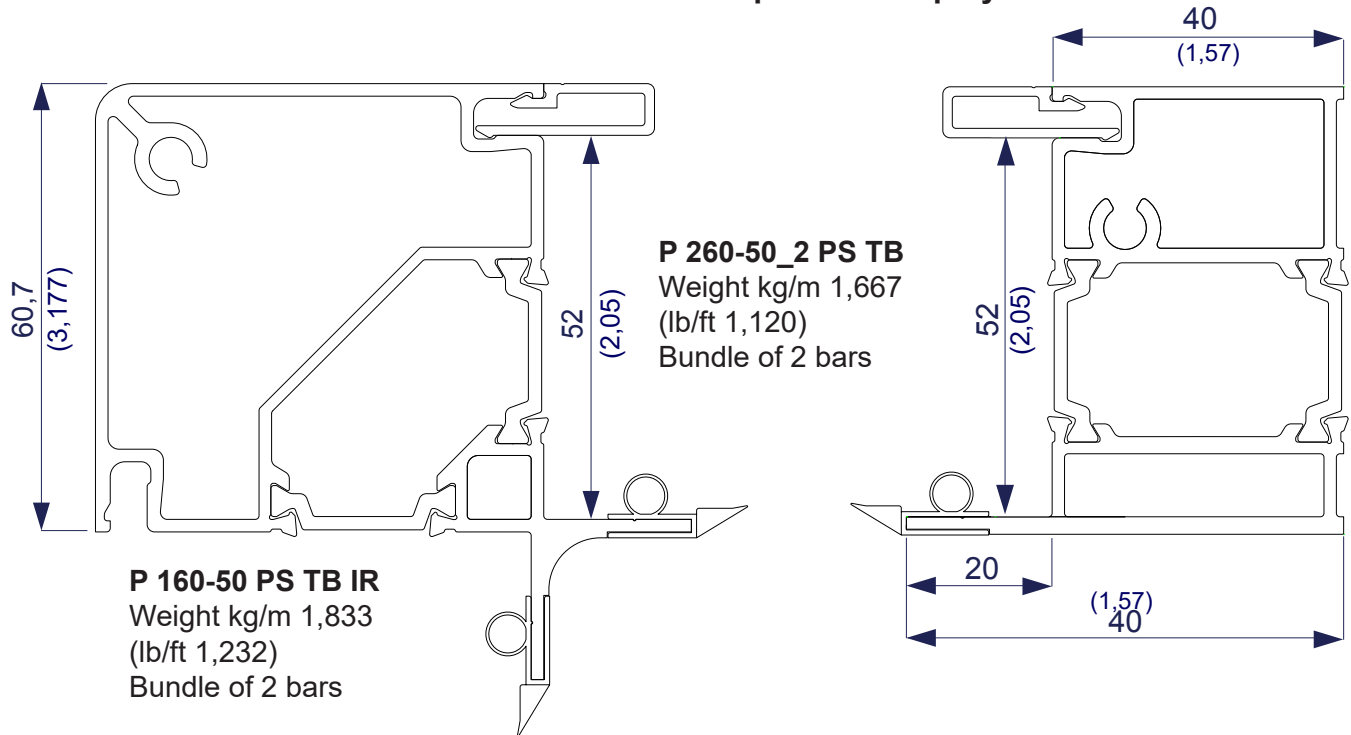
N 60-50 IR

Box of 30 pcs.



NOT TO SCALE

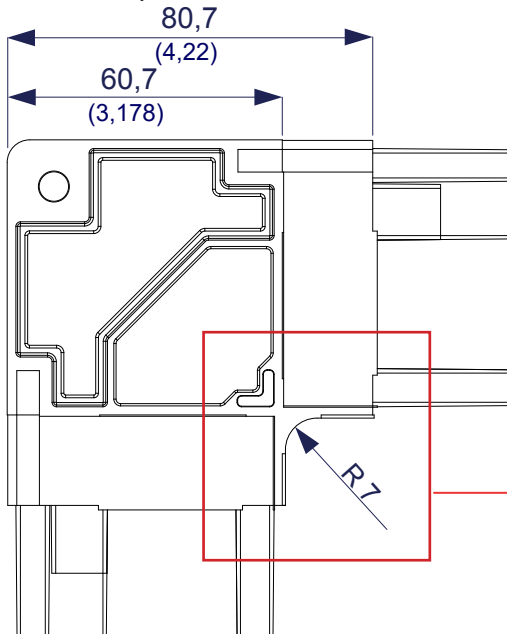
Square profiles (section 60 panel 50/55 mm; nylon corner)
Pre-assembled thermal break profile with polyamide



N 60-50_2 IR JP

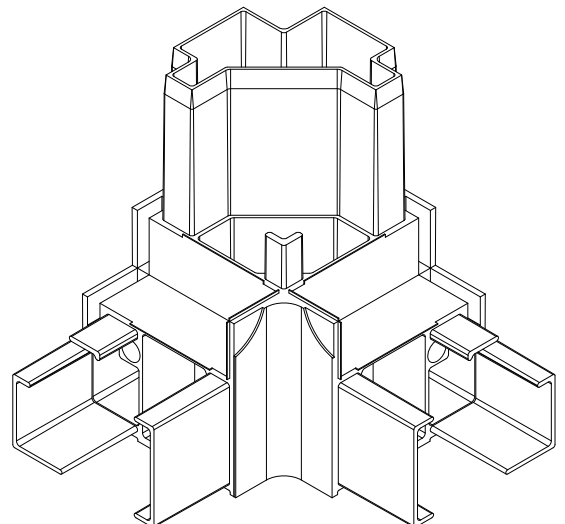
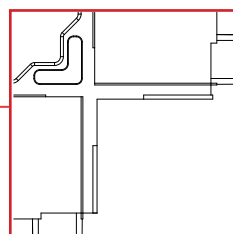
Box of 50 pcs.

NOT TO SCALE

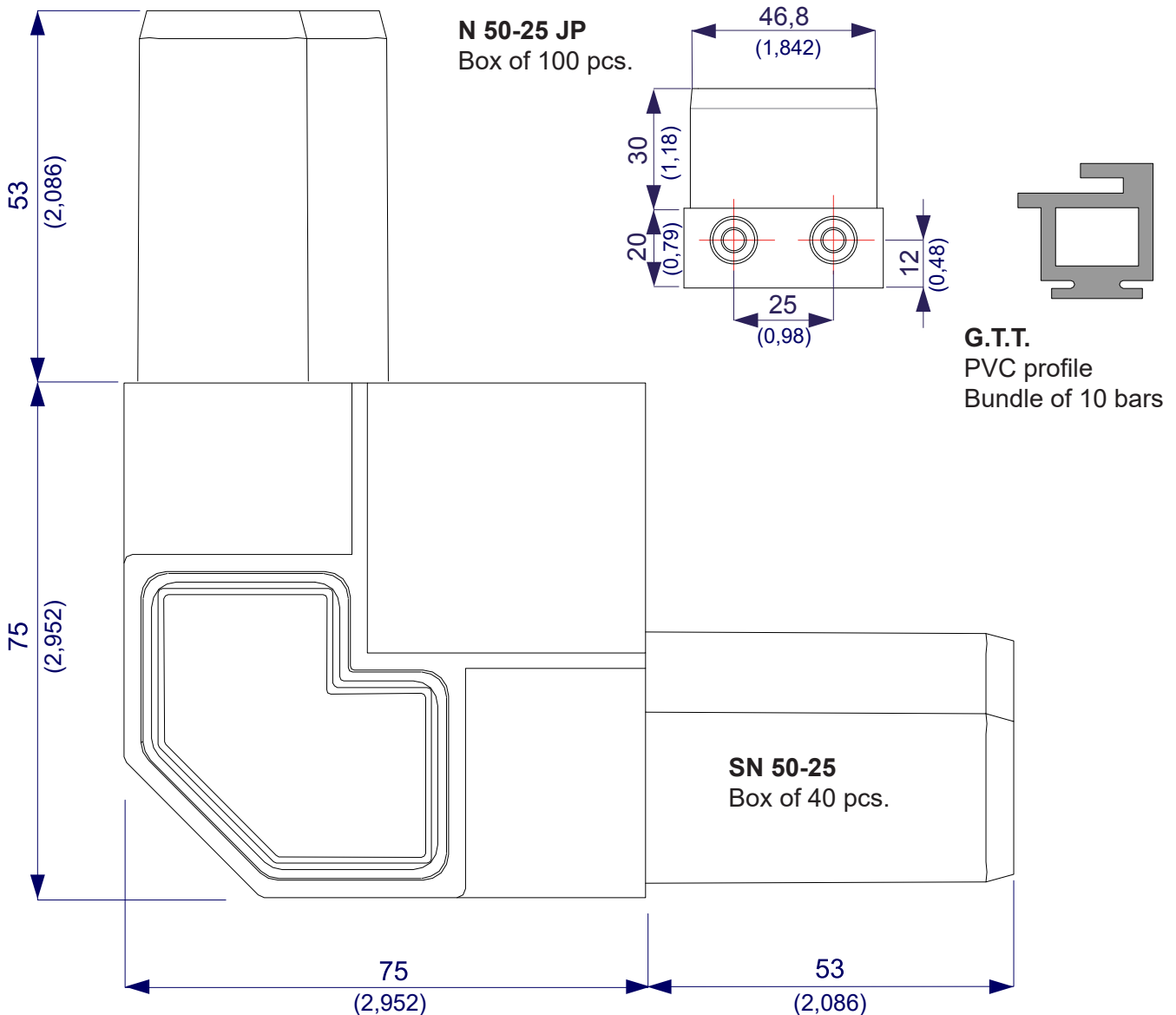
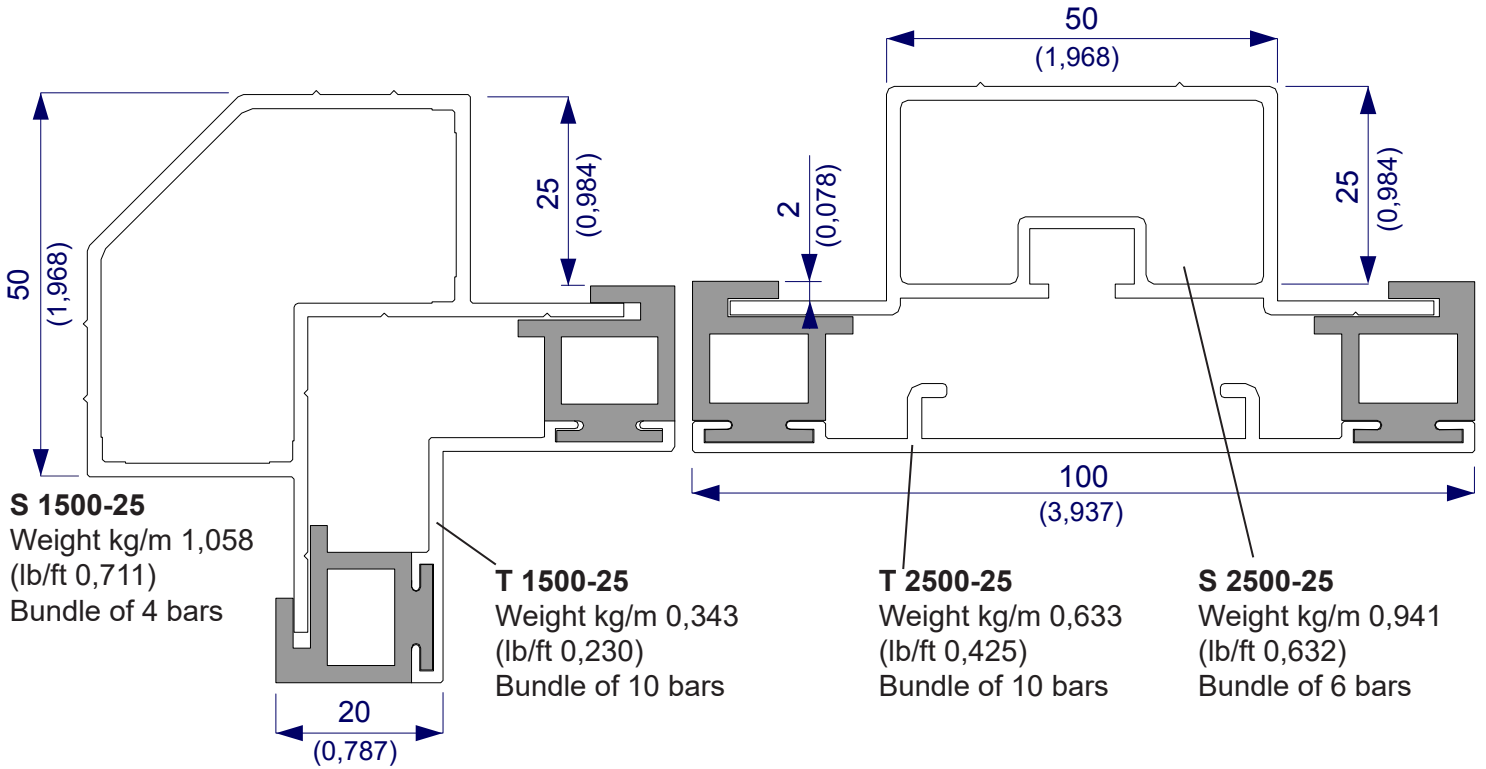


N 60-50_2 JP

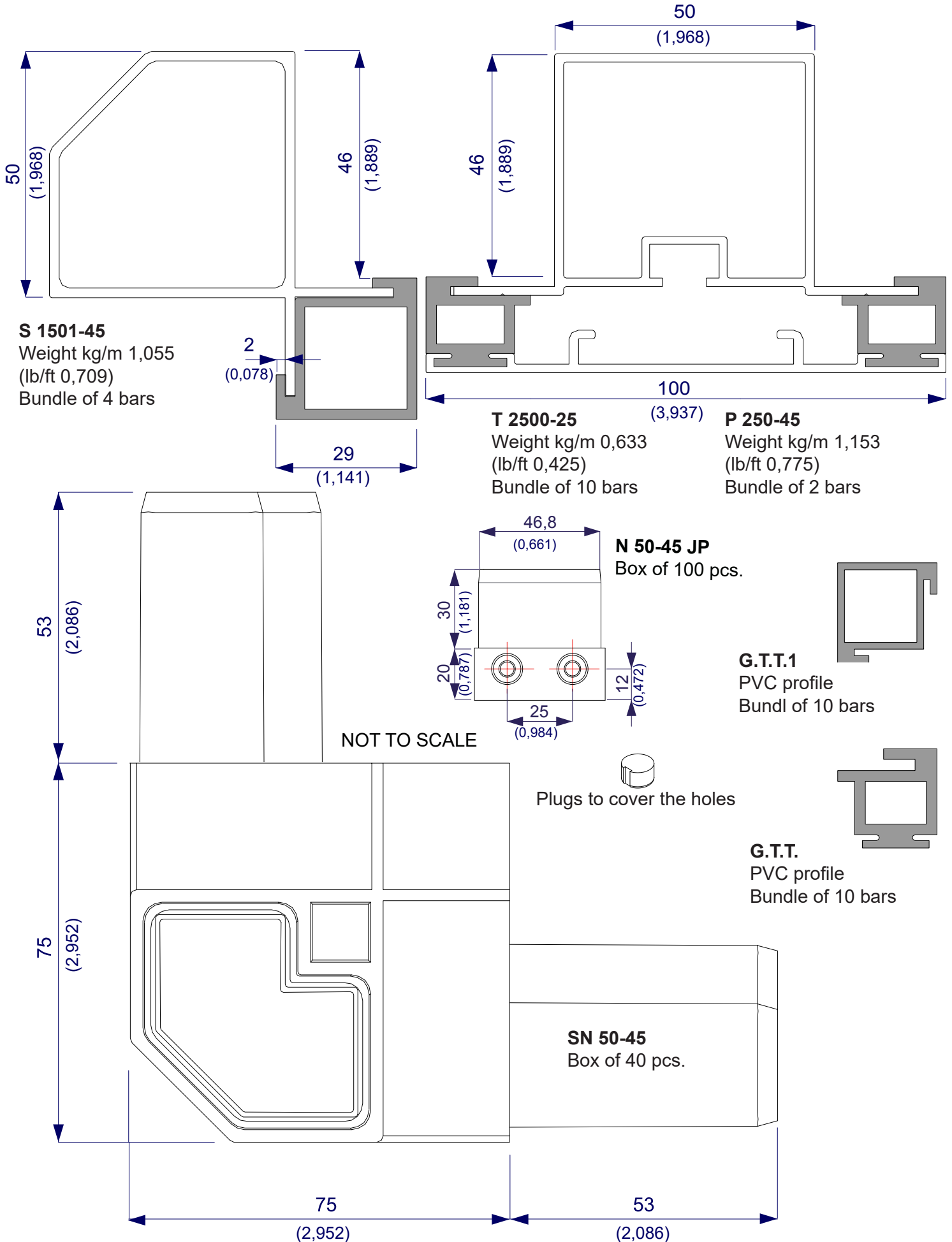
Box of 50 pcs.



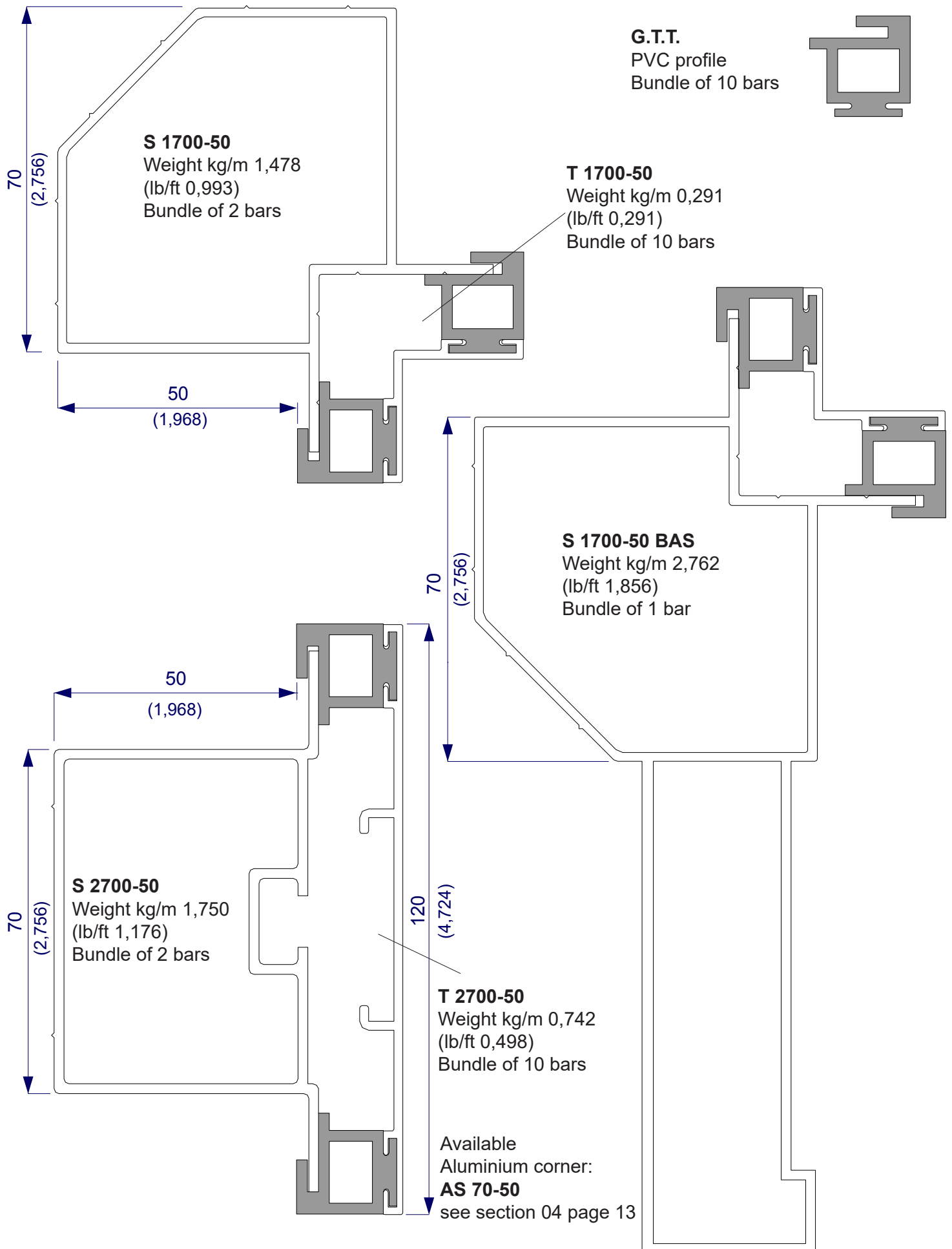
Blunted profiles (section 50 panel 25 mm; nylon corner)



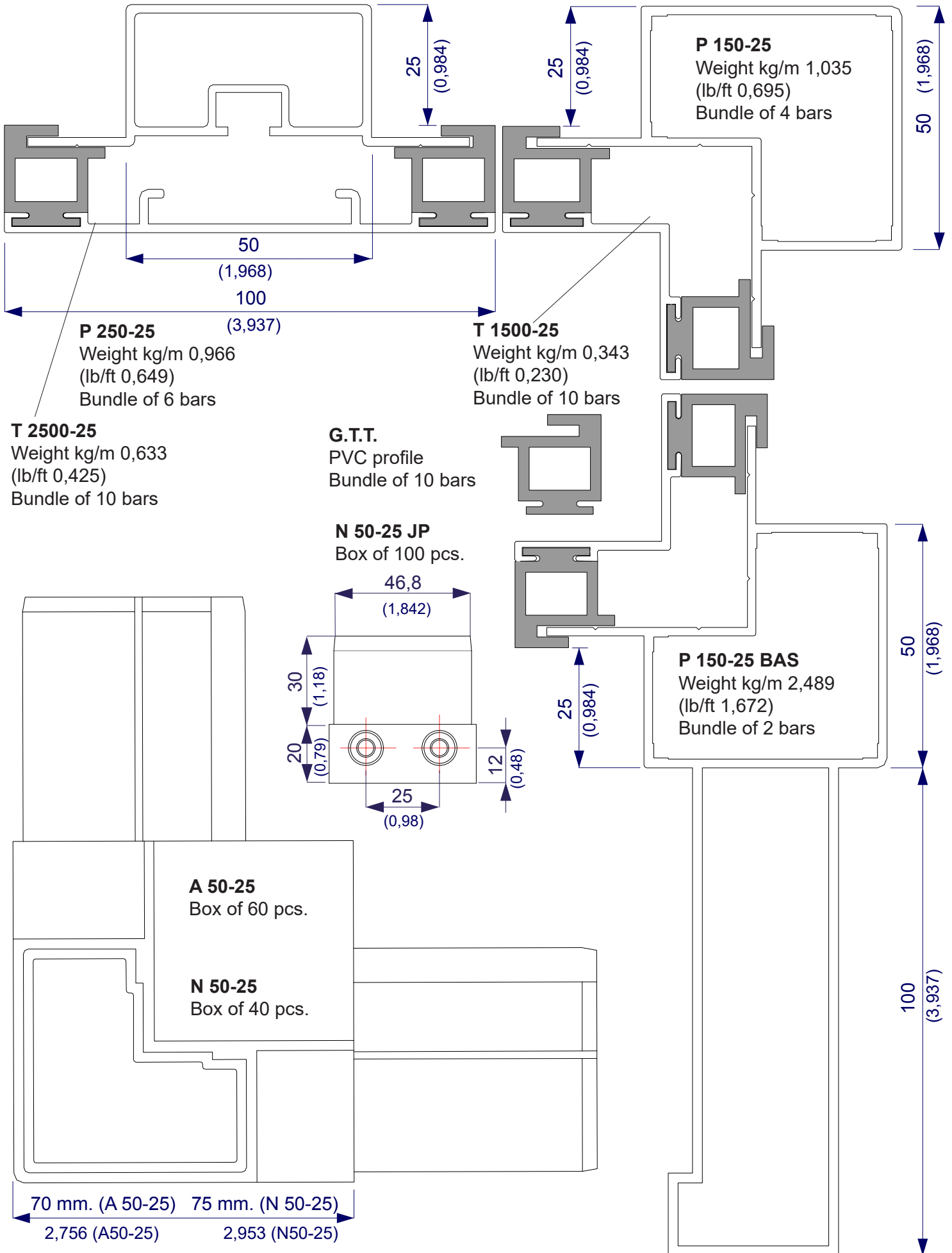
Blunted profiles (section 50 panel 45 mm; nylon corner)



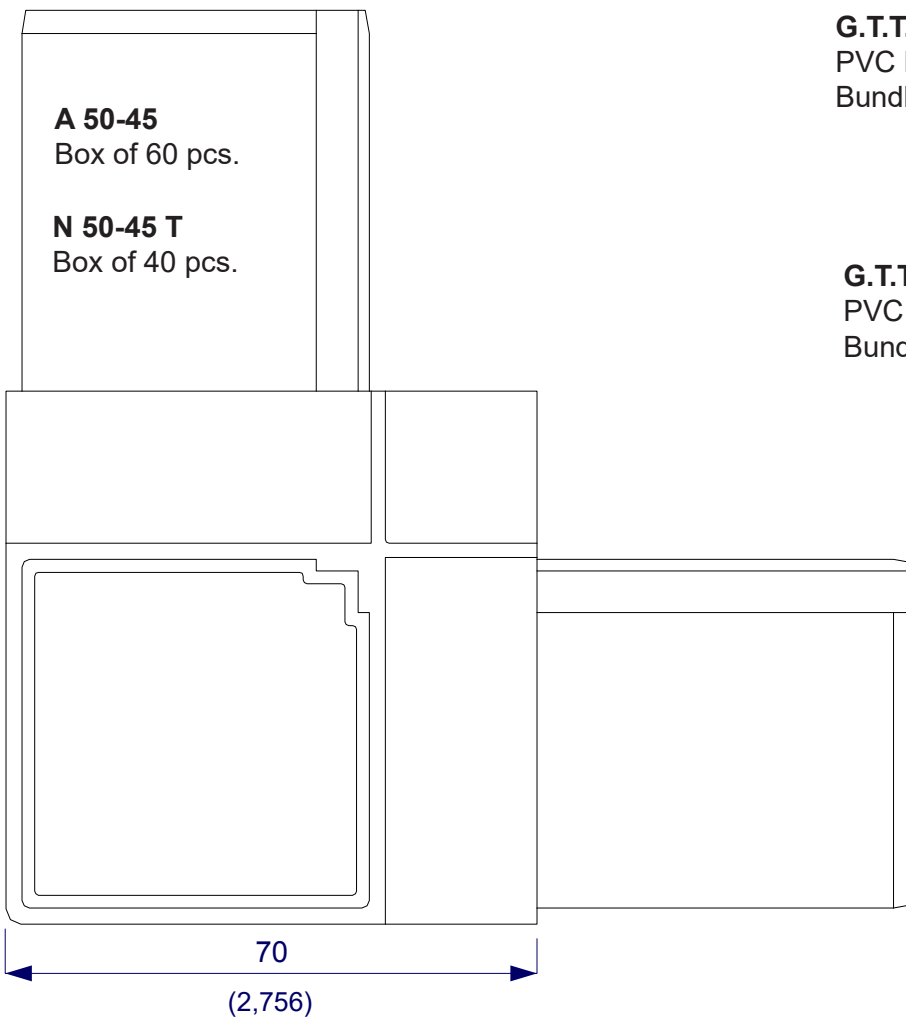
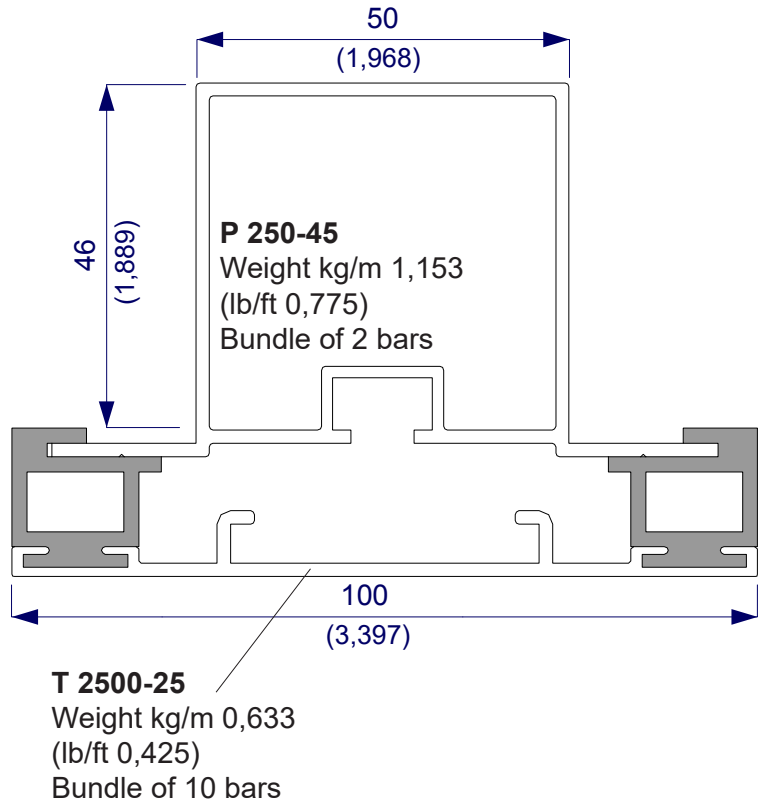
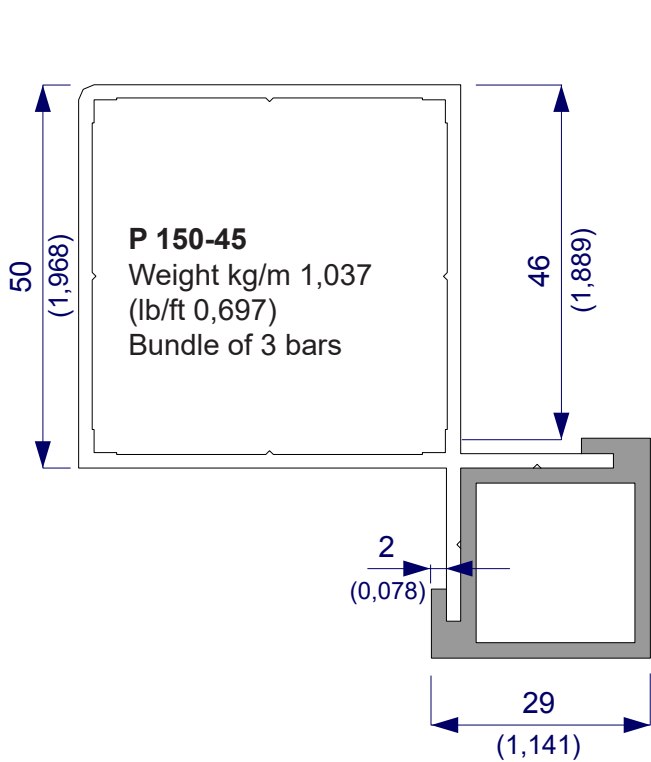
Blunted profiles (section 70 panel 50 mm; aluminium corner)



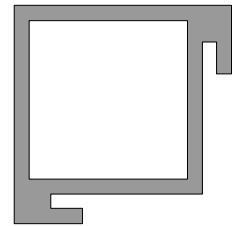
Square profiles (section **50** panel **25** mm; aluminium and nylon corner)



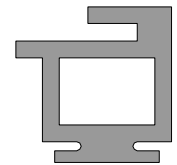
Square profiles profiles (section **50** panel **45** mm; aluminium and nylon corner)



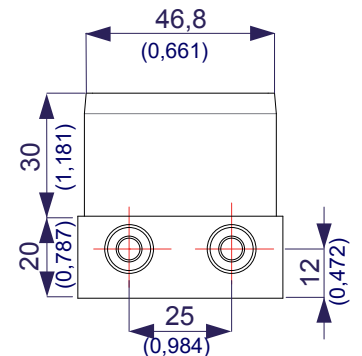
G.T.T. 1
PVC Profile
Bundle of 10 bars



G.T.T.
PVC Profile
Bundle of 10 bars

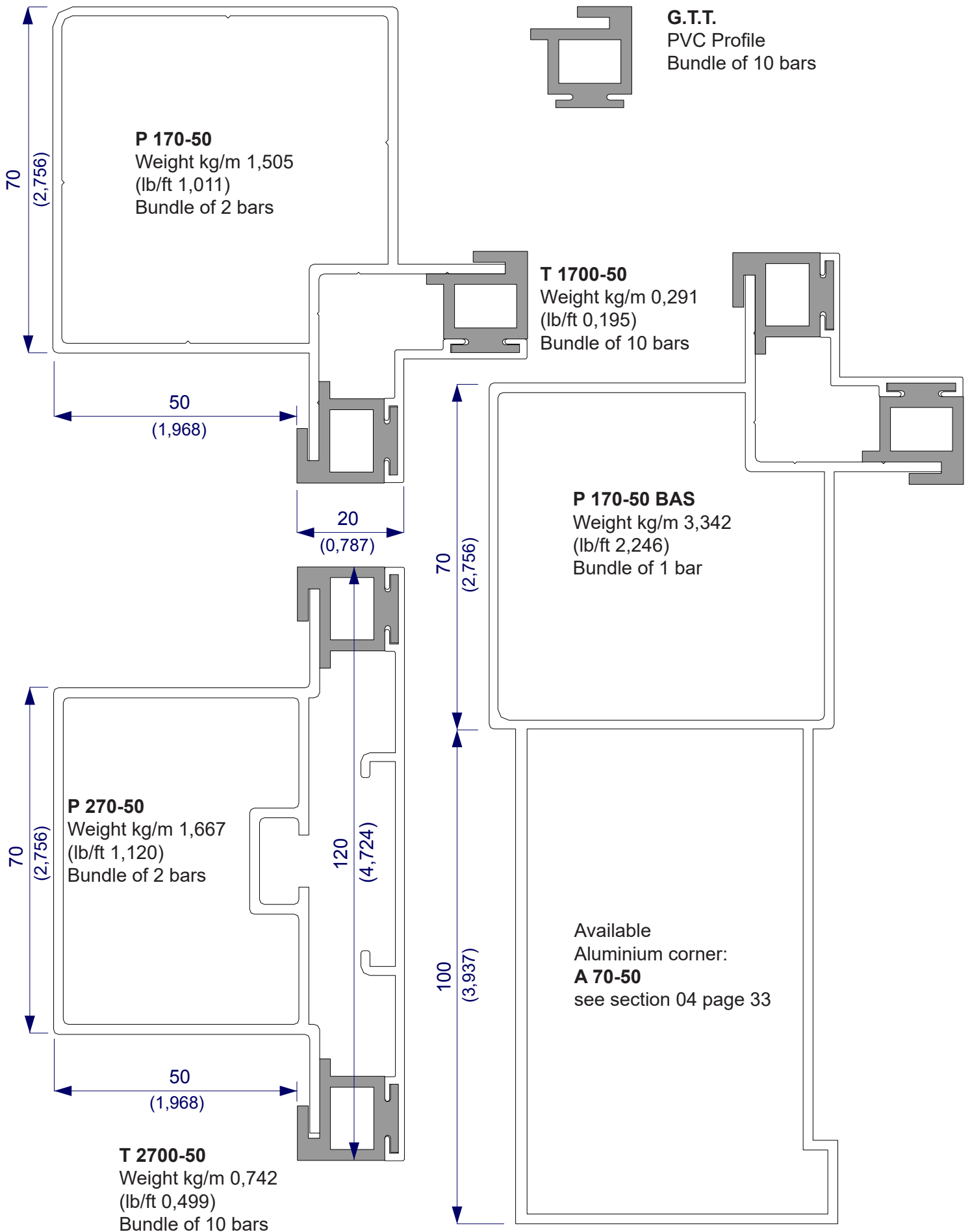


N 50-45 JP
Box of 100 pcs.



Plugs to cover the holes
NOT TO SCALE

Square profiles (section 70 panel 50 mm; aluminium corner)



Accessori: maniglie, cerniere, chiusure, bussole, tappo coprivite, pomolo di fissaggio, presa attacco pressostato, oblò...

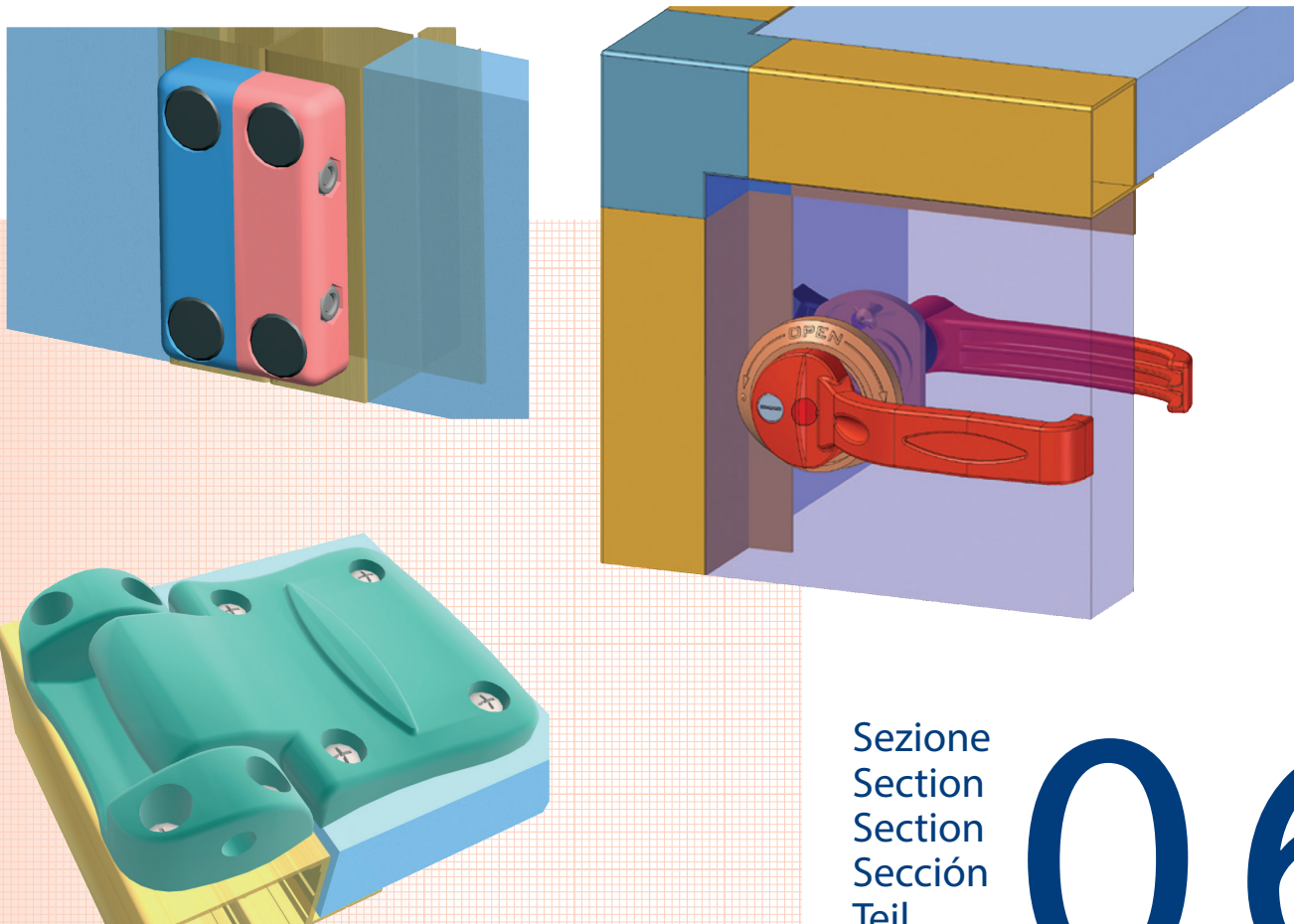
Accessories: handles, panel stops, hinges, locks, double locks, knob, screw-guide bushings, pressure plug, screw cover caps, portholes...

Accessoires: poignées, charnières, fermetures, glissières et bouchon couvre-vis, poignées de fixation, prise de pression, hublots...

Accesorios: bisagras, cerraduras, tapón cubre tornillo, tirador de ajuste, casquillos, toma de enganche presostato, portillas...

Zubehör: Griffe, Verschlüsse, Scharniere, Schlösser, Doppelschlösser, Hülsen Druckmessutzen, Paneelsperren, Deckelschrauben, Leitspindeln, Bullaugen...

附件：把柄，铰链，锁，双锁，螺丝覆盖，螺纹指导，压力插件，舷窗，等。



Sezione
Section
Section
Sección
Teil
第06号

06

HANDLES AND LOCKS

The handles and locks are available in different materials, (nylon, galvanised, aluminium, stainless steel), which are used for single/double bent panels.

The handles with the highest technical characteristics are DN ISO/DN ISO1.

DN ISO/DN ISO1 handle series is suitable for panels with thickness from 20 to 60 mm, it can be single or double (in case of the panel must be opened from inside too) and it can be equipped with key or padlock. This handle can be mounted on positive pressure units thanks to a safety device which stops the rotation of the panel and prevent from accidentally damage to things and persons.

DN ISO-0 version is designed to avoid the pin of the handle goes beyond the panel or profiles. Thanks to this feature any mechanical element will be placed inside the unit, thus thermal insulation will be guaranteed as well as constant cleanliness inside the air handling unit. The closing mechanism of the panel is external and it is also available for both doors that open internally and externally.

The model N 80x80 DF has two functions: it is a hinge that has a mechanism that makes it also a handle. In this way the door can be opened from both sides or be removed completely. It can be mounted on panels of different thicknesses and it is available a version with security device for units with positive pressure.

NYLON SCREW-GUIDE BUSHES

Screw-guide bushings are available for panel thickness from 20 up to 50 mm, while DN41 improves the holding of the fixing and to ease the centering panel instead of using screws or classic screw-guide bushings.

HINGES

The wide range of our hinges offers solutions that meet technical and aesthetic needs. We have various models: from smaller hinges made in nylon or aluminium, with low resistance to load, hide screw nylon hinges, up to aluminium ones that can support considerable loads.

The series A 80x110 are vertically adjustable hinges meanwhile the adjustment of A 105x55 is both vertically and horizontally. These latter are used when the panel is not in line with frame and to ensure the proper compression adjustment of the gasket.

PORTHOLES

The series W 19-35, W 39-53, W 54-65, W 70-90 and W 95-110 are made of polycarbonate with EPDM gasket and are suitable for panel thickness from 20 to 110 mm. The air tightness of these portholes is high as well as its aesthetic design (the screws are hidden).

The series N 300 has an external nylon ring and a transparent plexiglass disc (N 300, N 302) It is also available a "double version" which consists of two parts (N 300 + N 301) that can be fitted inside each other, thereby making them adjustable. The adjustable porthole can be used with panels thickness from 25 to 50 mm.

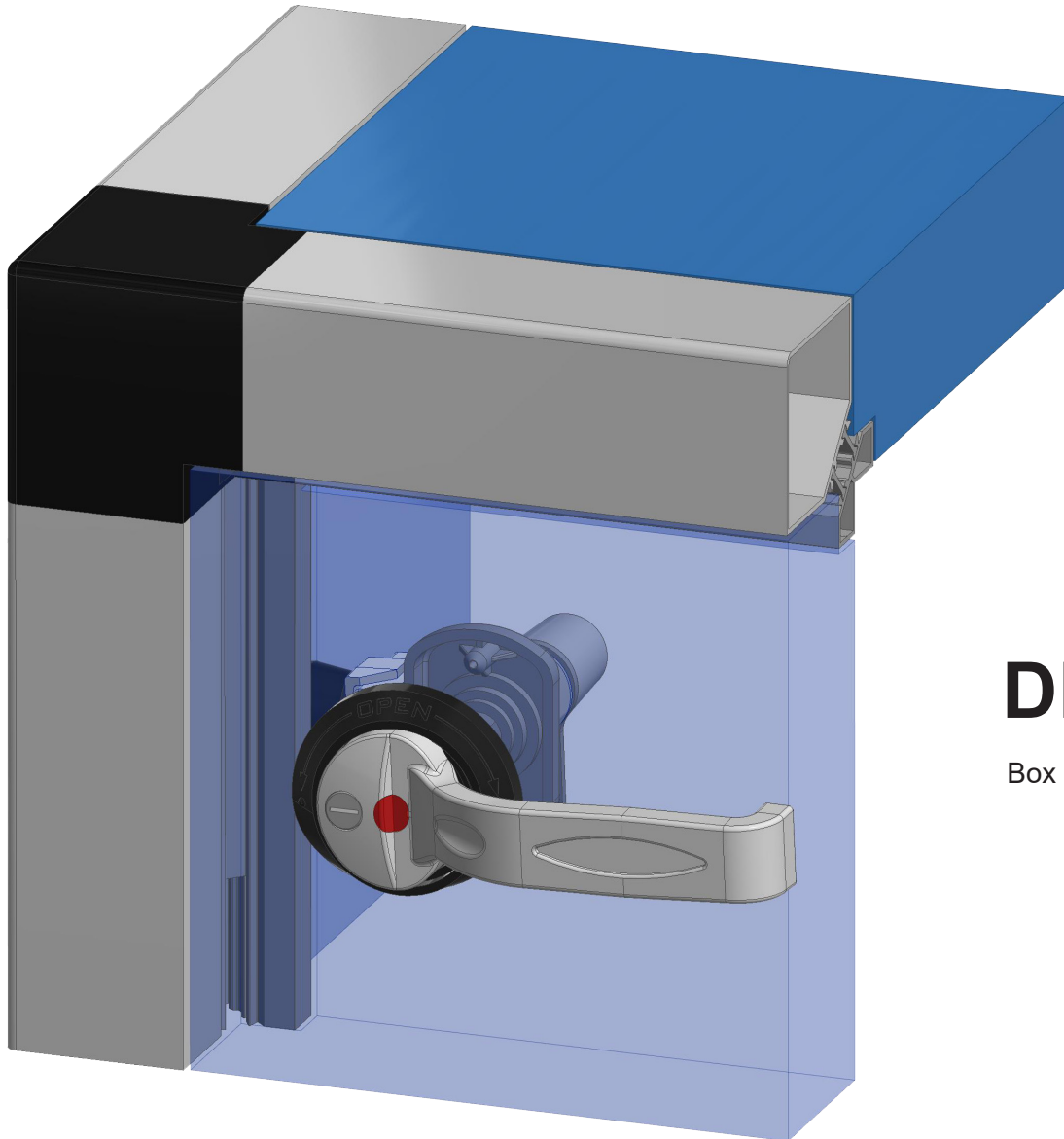
PRESSURE PLUGS

We offer pressure plugs of different sizes and dimensions with gaskets and nylon closing caps for air flow.

ALUMINIUM BRACKETS

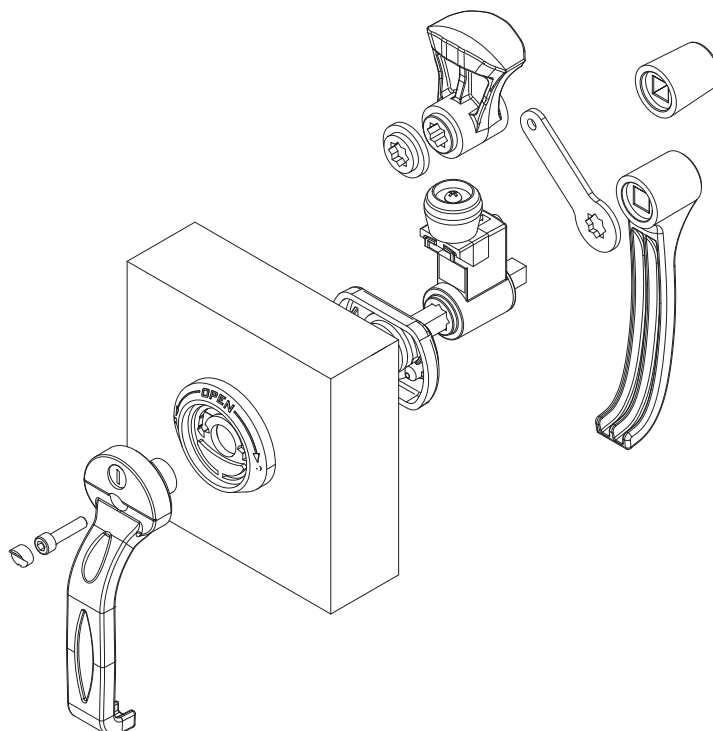
The ACB series is made up of several brackets, made of die-cast aluminum, which are very useful to fix and unite different sections of an air handling unit.

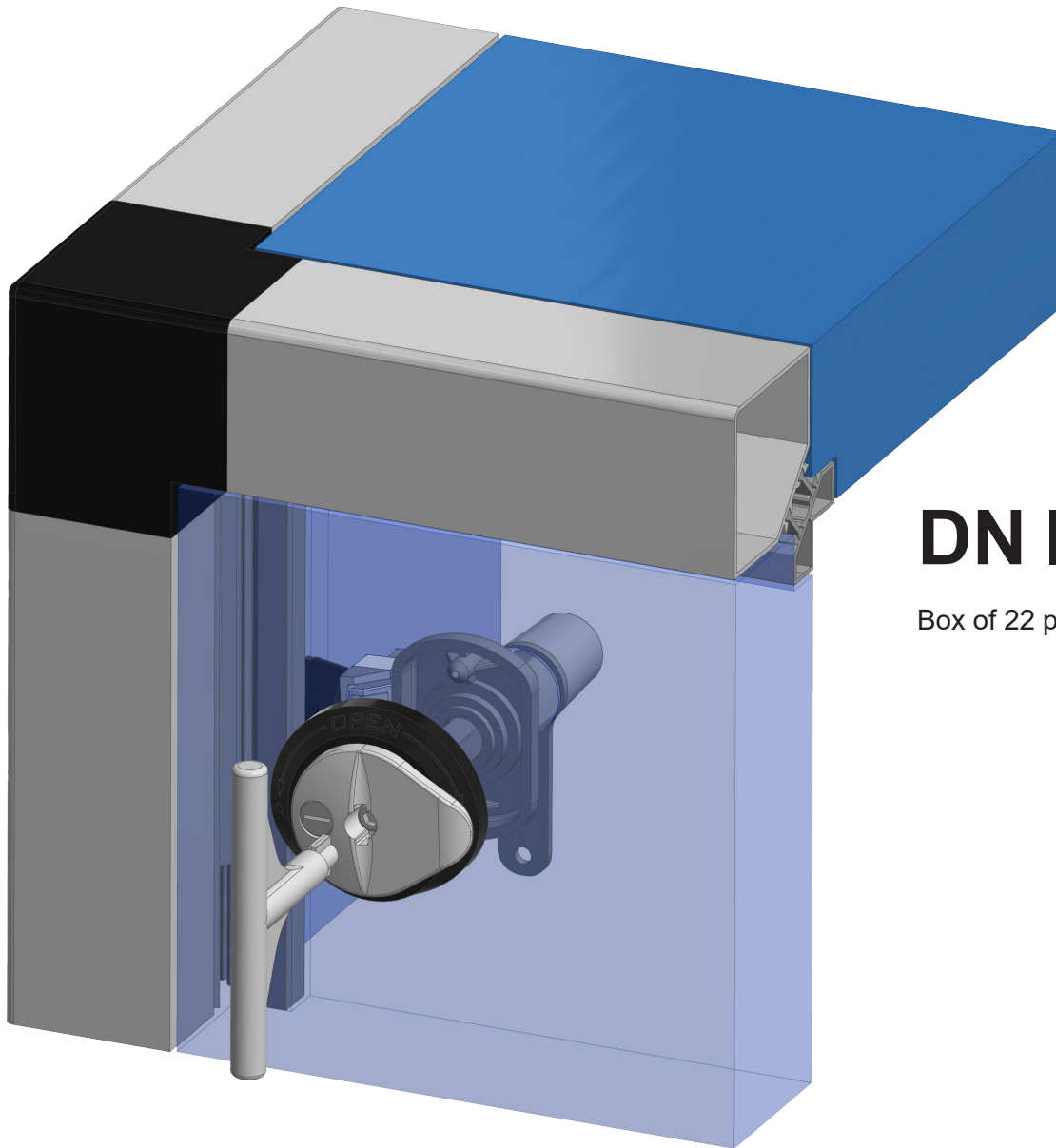
These brackets have a conical shape in order to align the sections on the same level, even when the floor is misaligned or disconnected. There are also available brackets to suspend the unit to the ceiling or whether the AHU should be laid on adjustable feet.



DN ISO

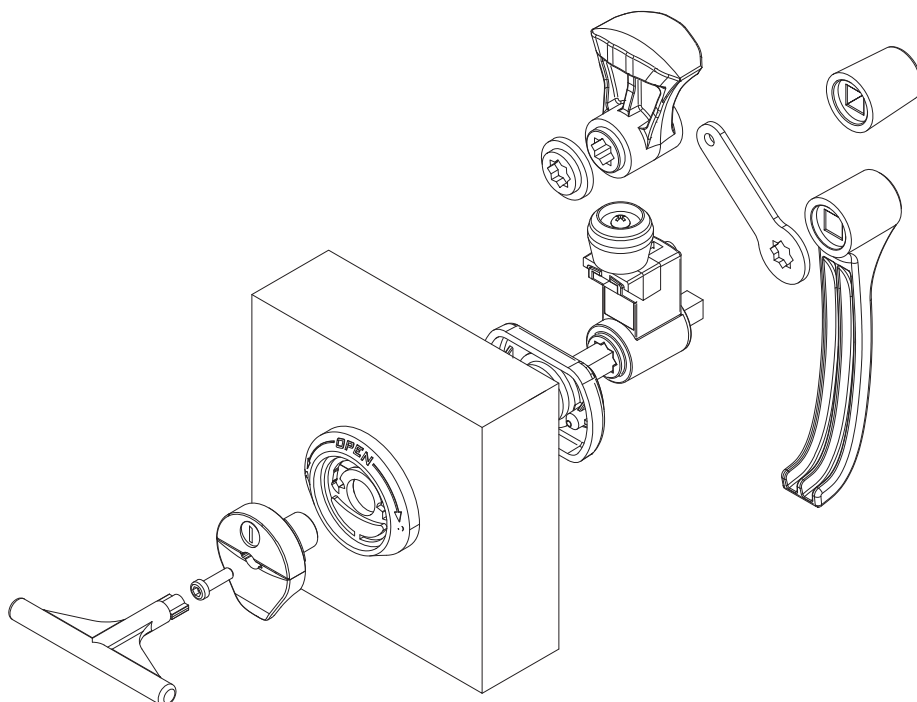
Box of 22 pcs.



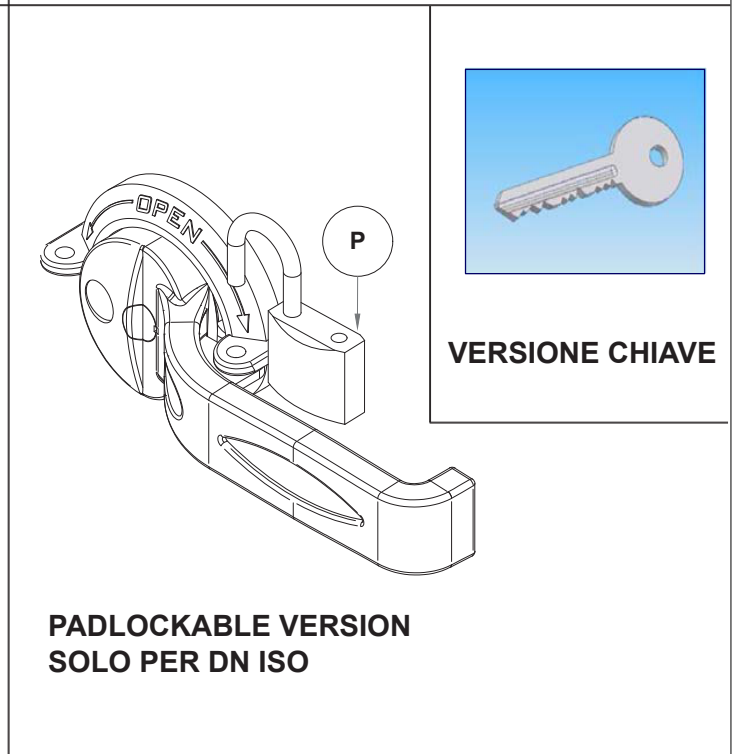
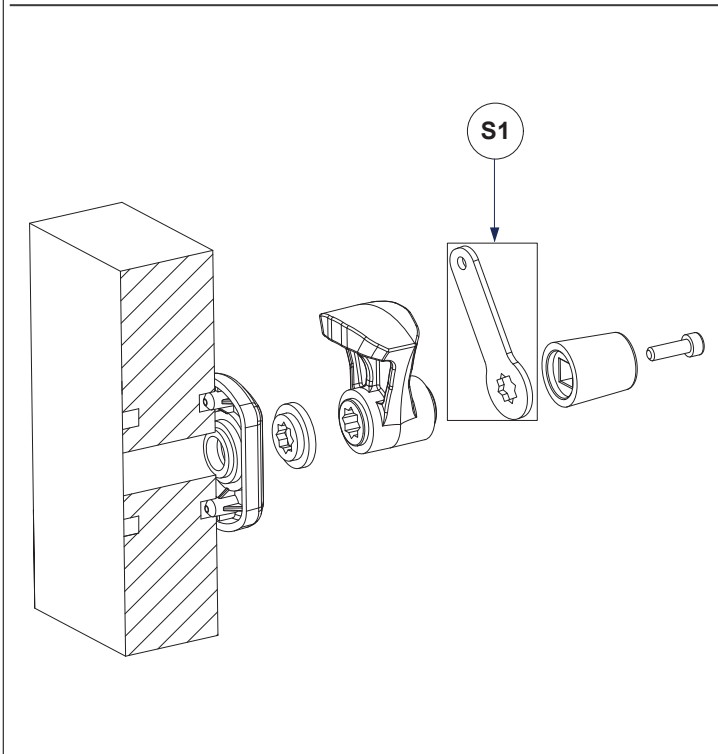
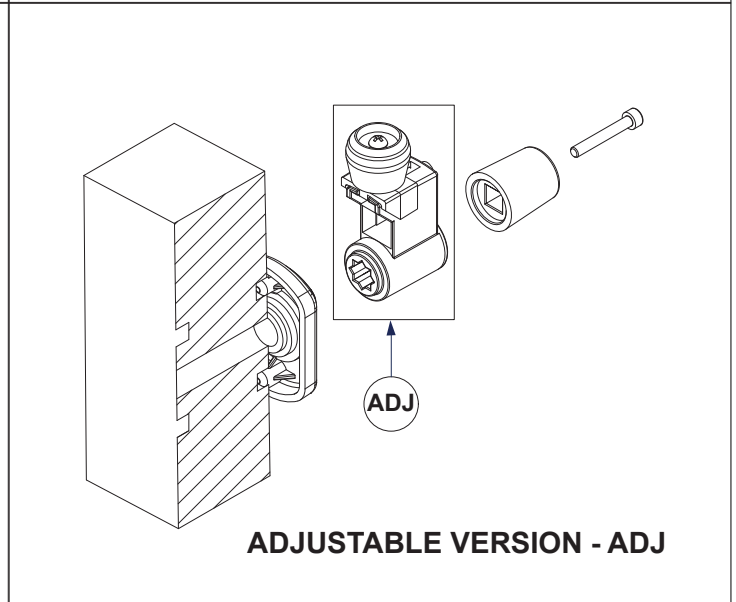
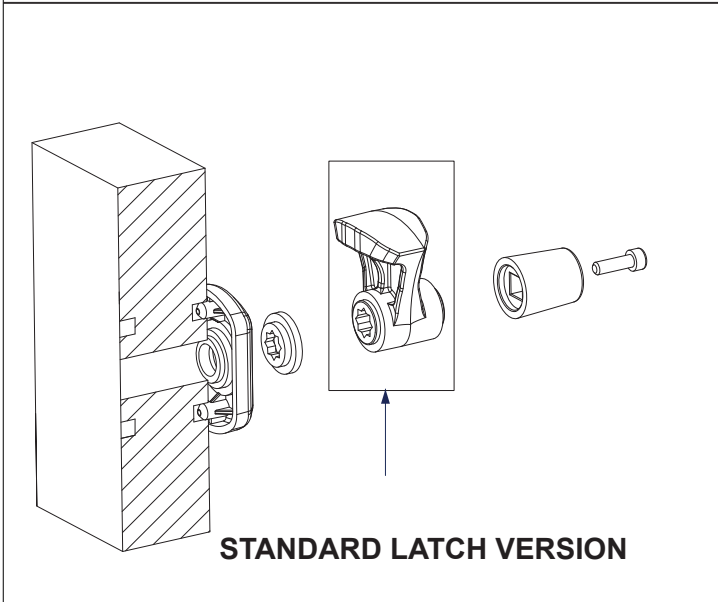
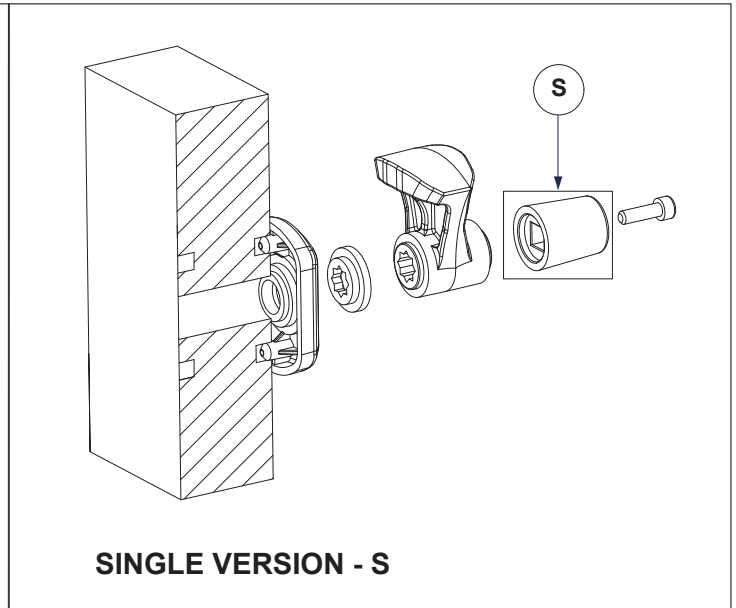
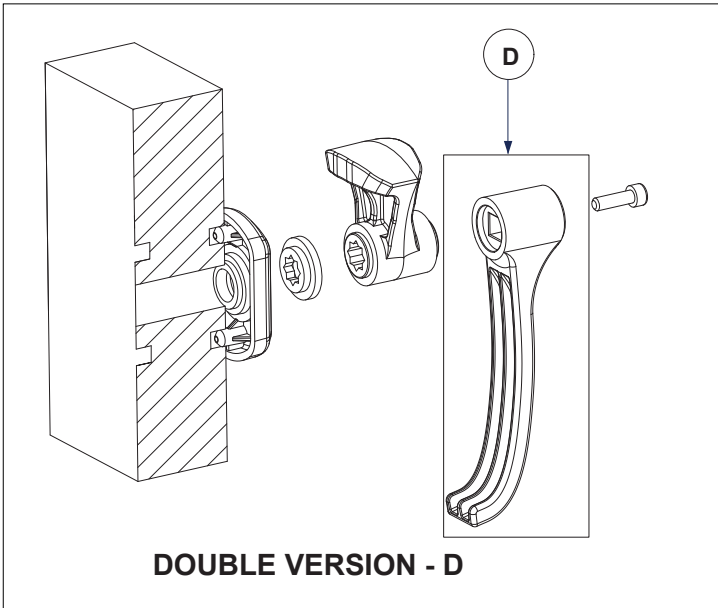


DN ISO 1

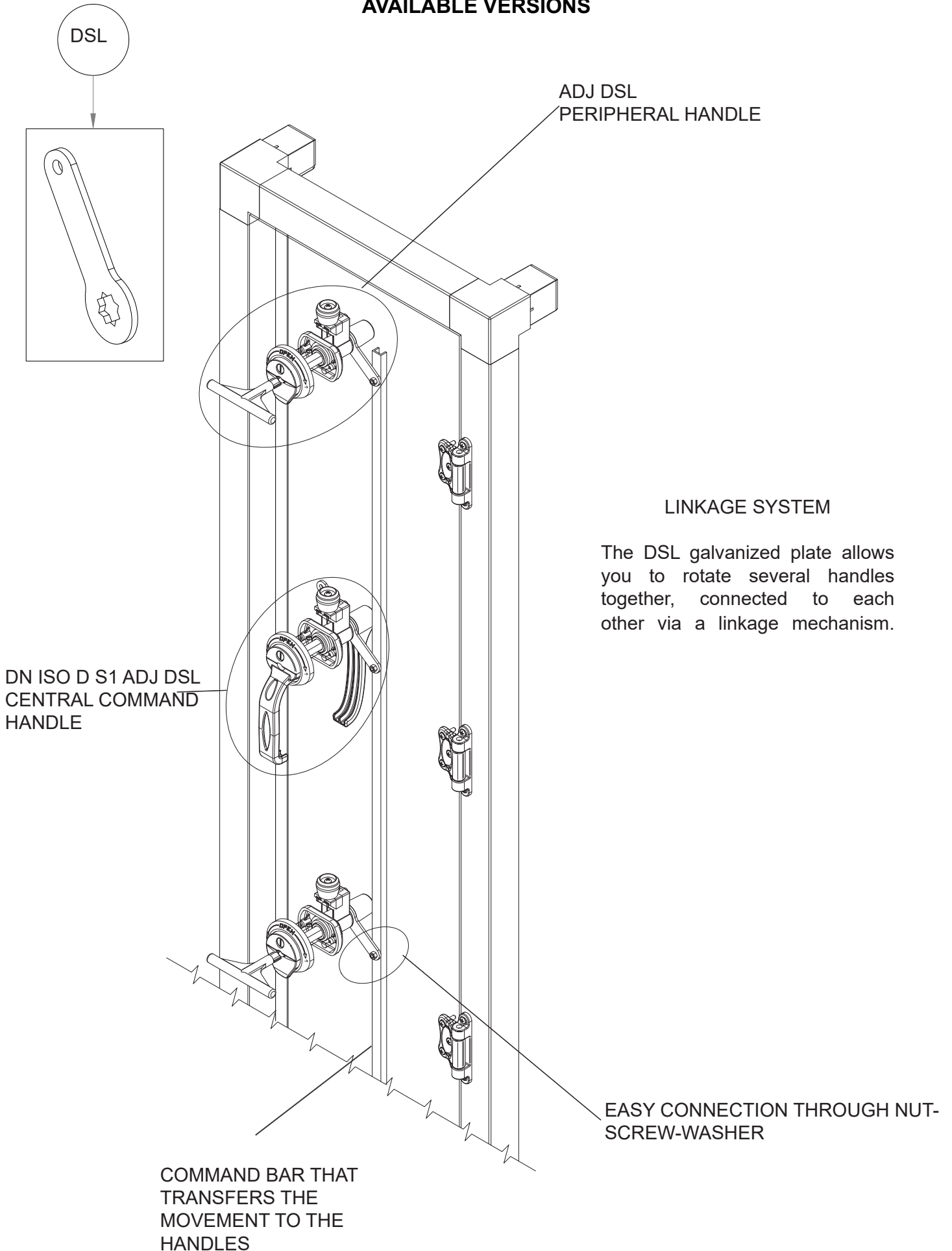
Box of 22 pcs.



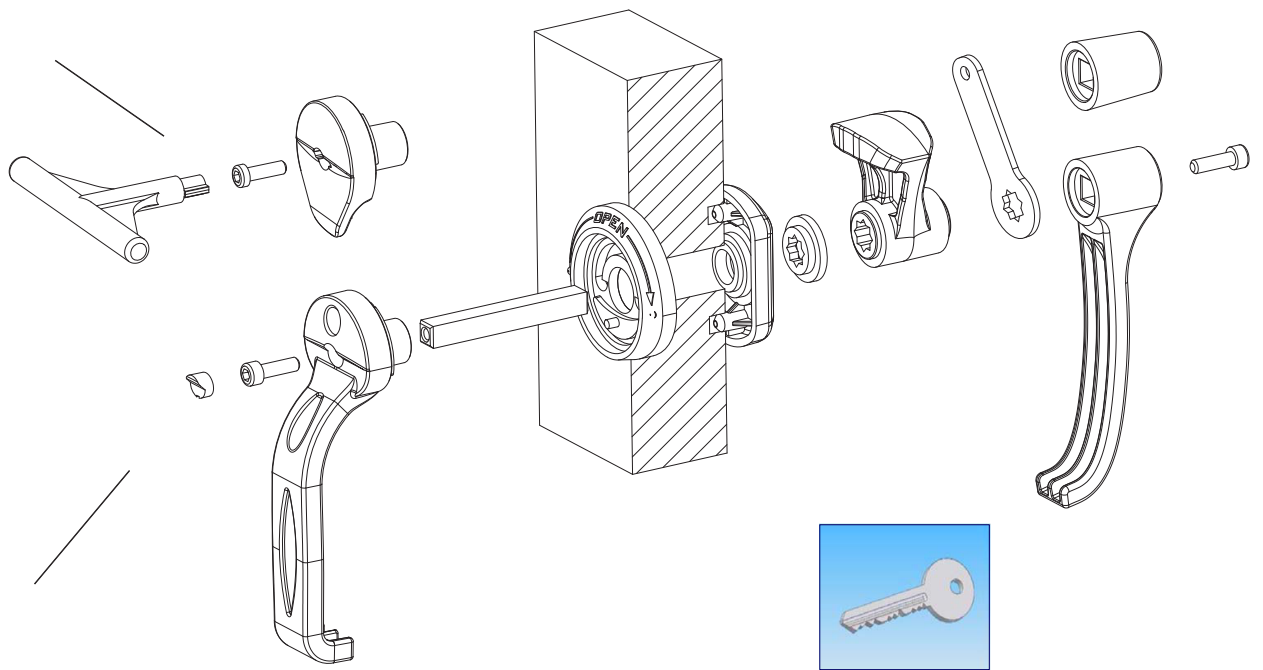
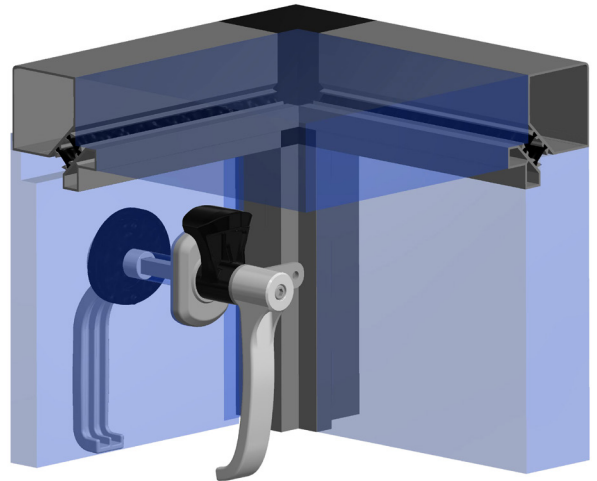
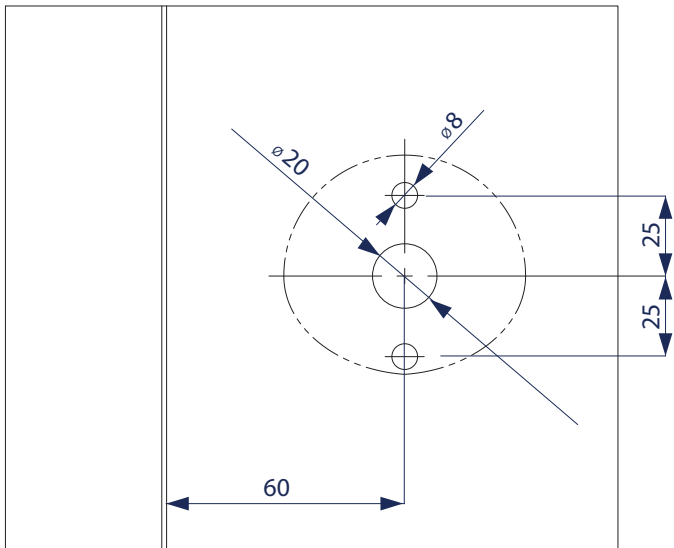
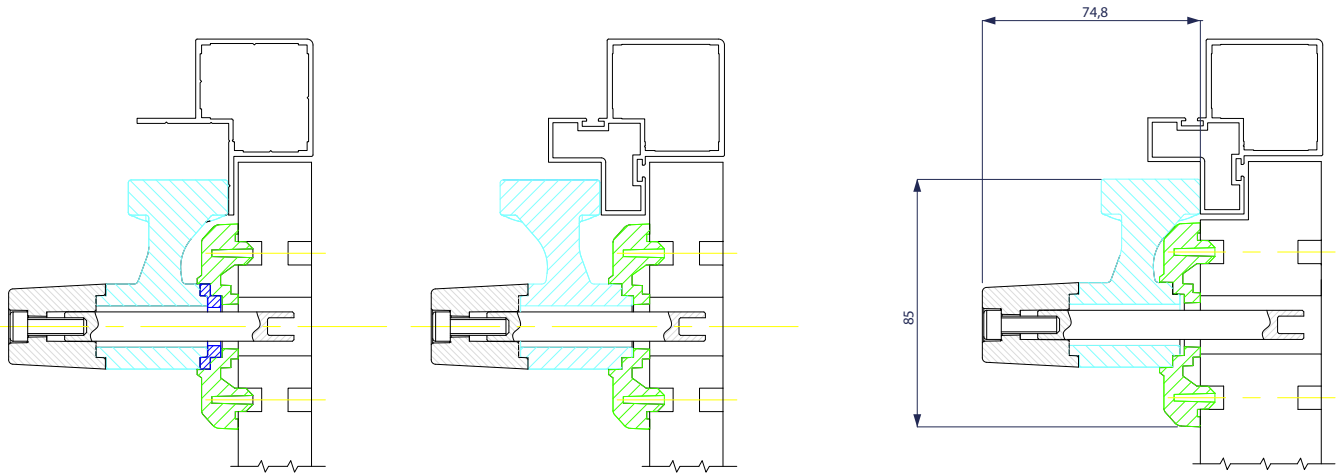
AVAILABLE VERSIONS



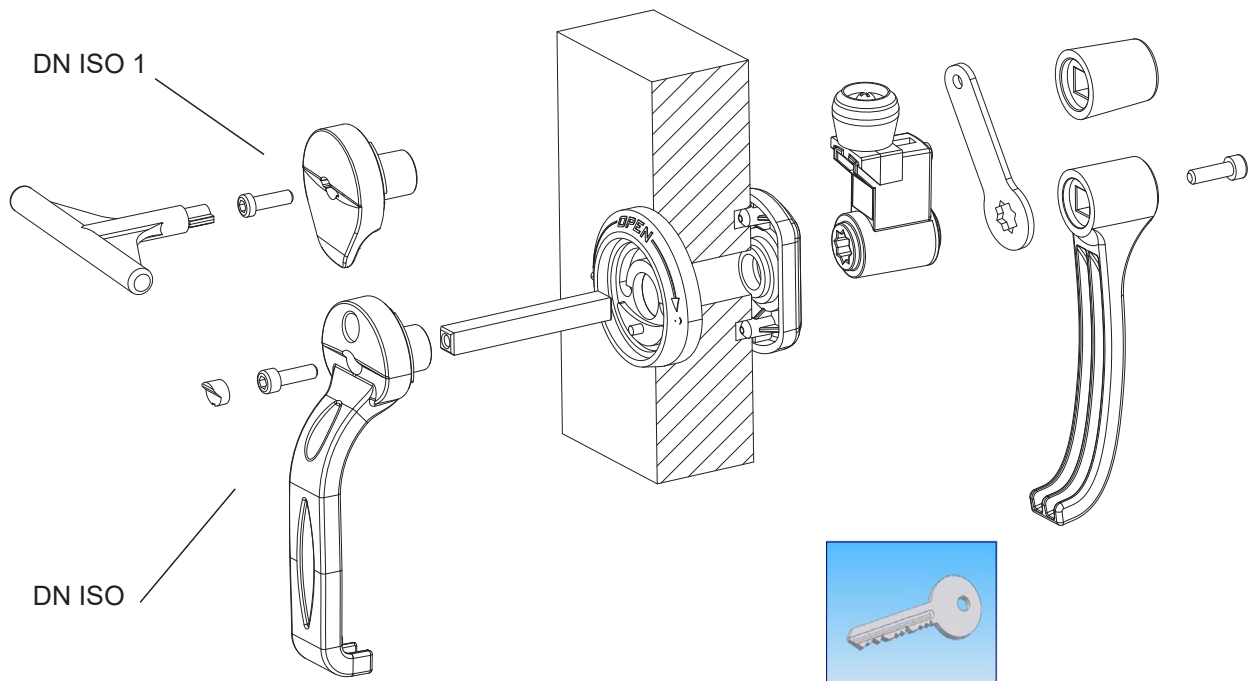
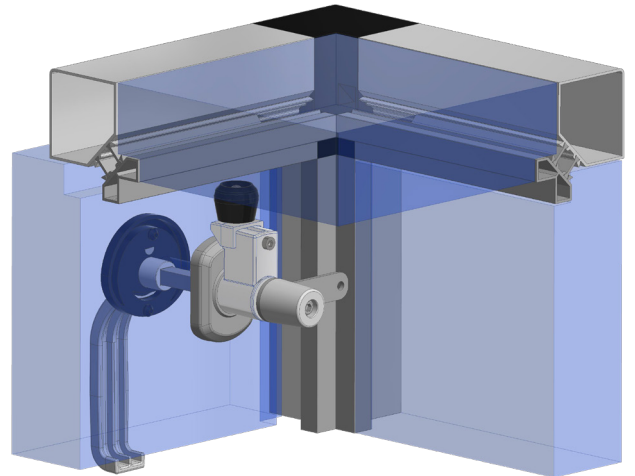
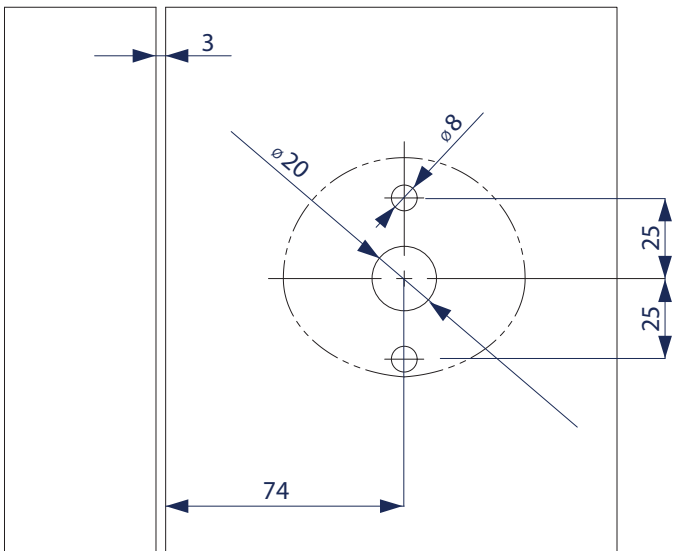
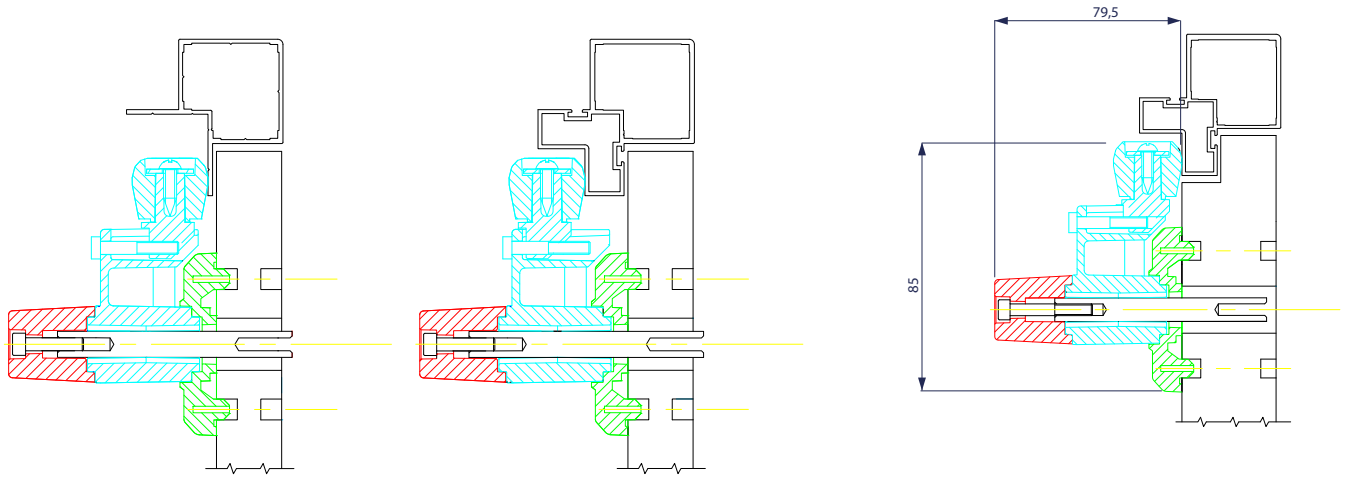
AVAILABLE VERSIONS

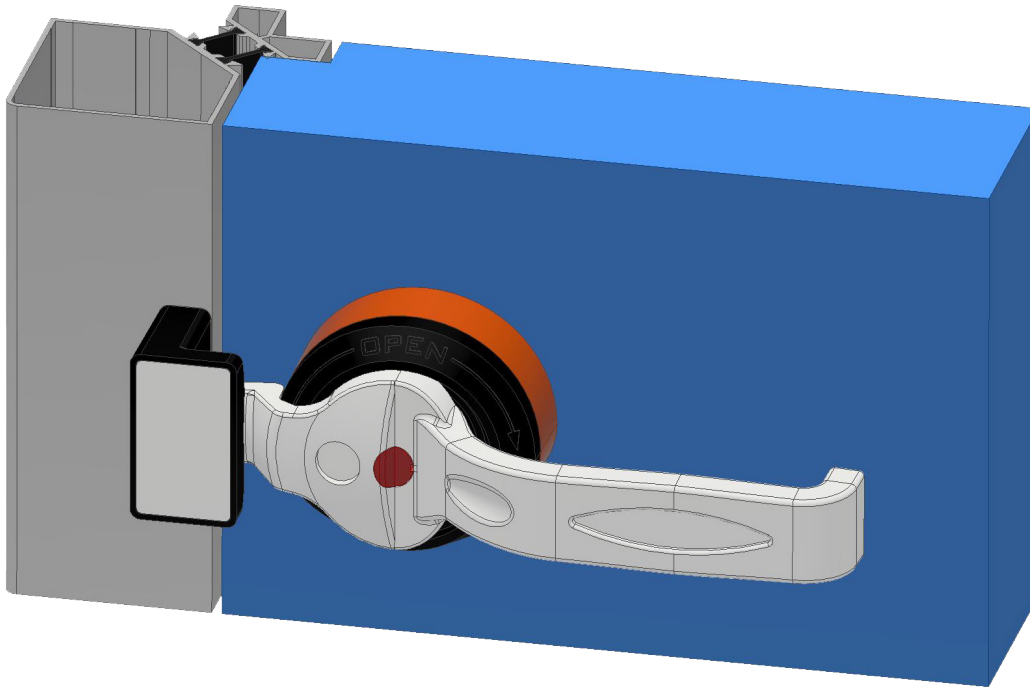


DRAWING SCHEME FOR HANDLE DN ISO / DN ISO - 1 - STANDARD LATCH



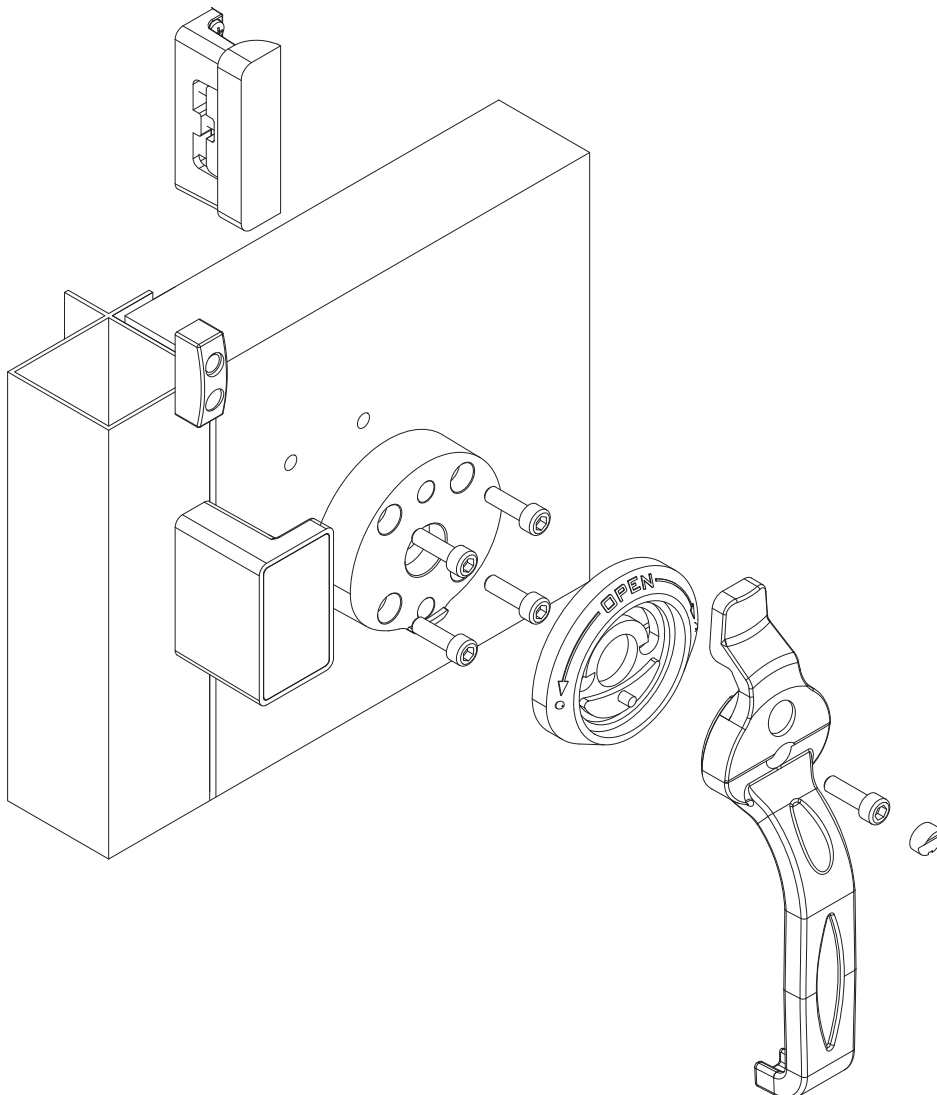
DRAWING SCHEME FOR DN ISO / DN ISO 1 - ADJ LATCH

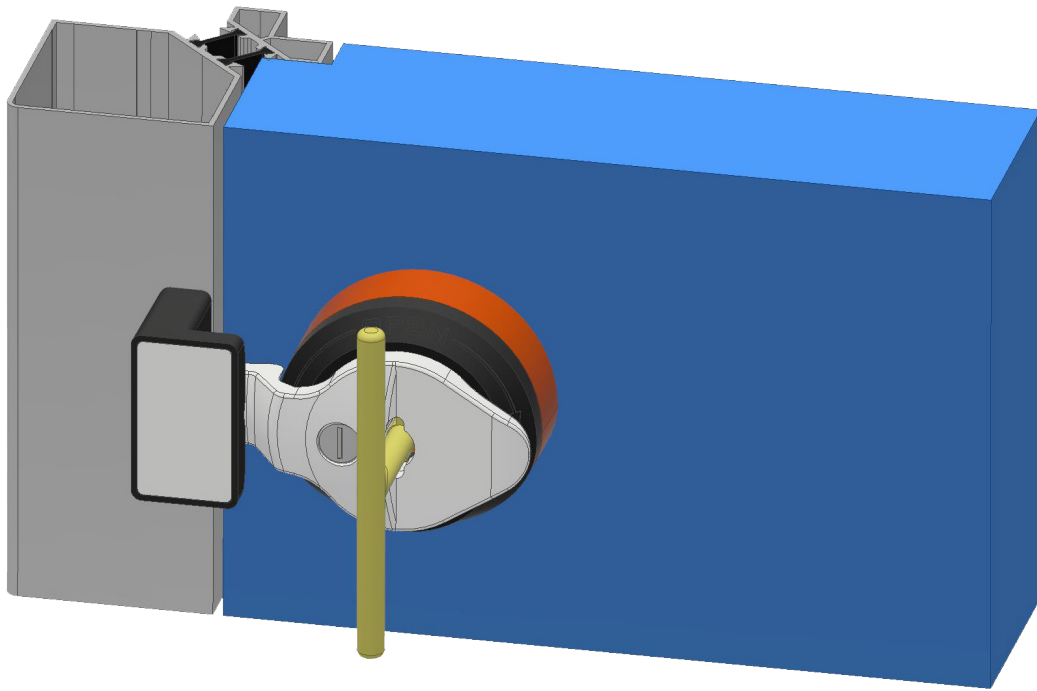




DN ISO-0

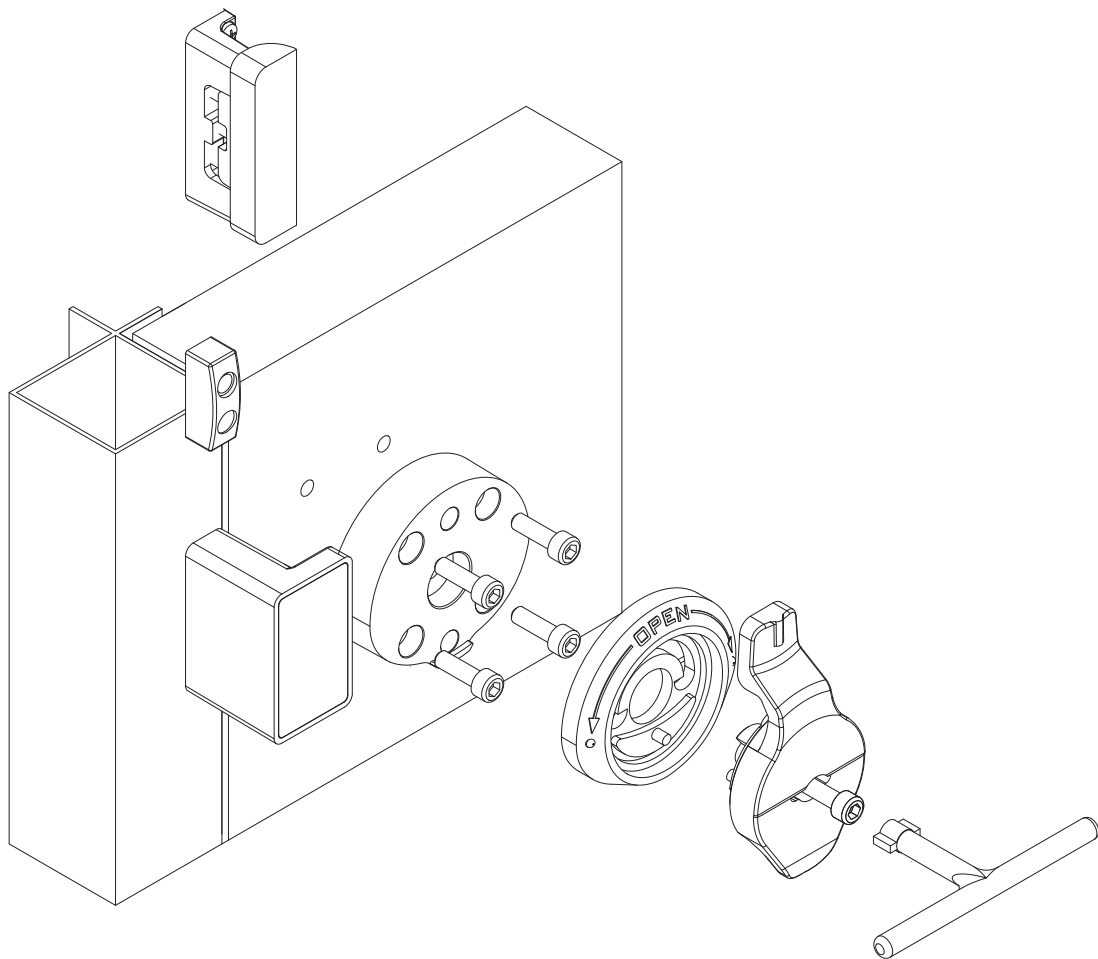
Box of 22 pcs.





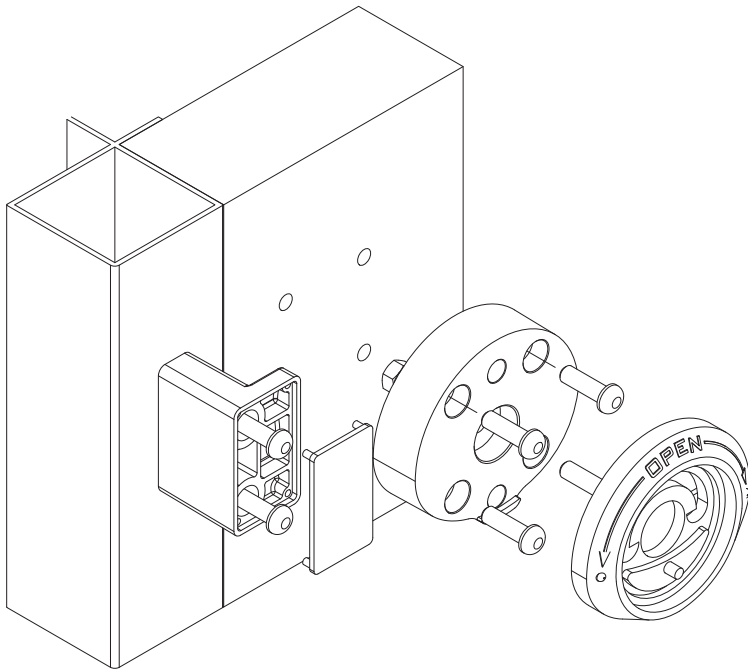
DN ISO-0 1

Box of 22 pcs.

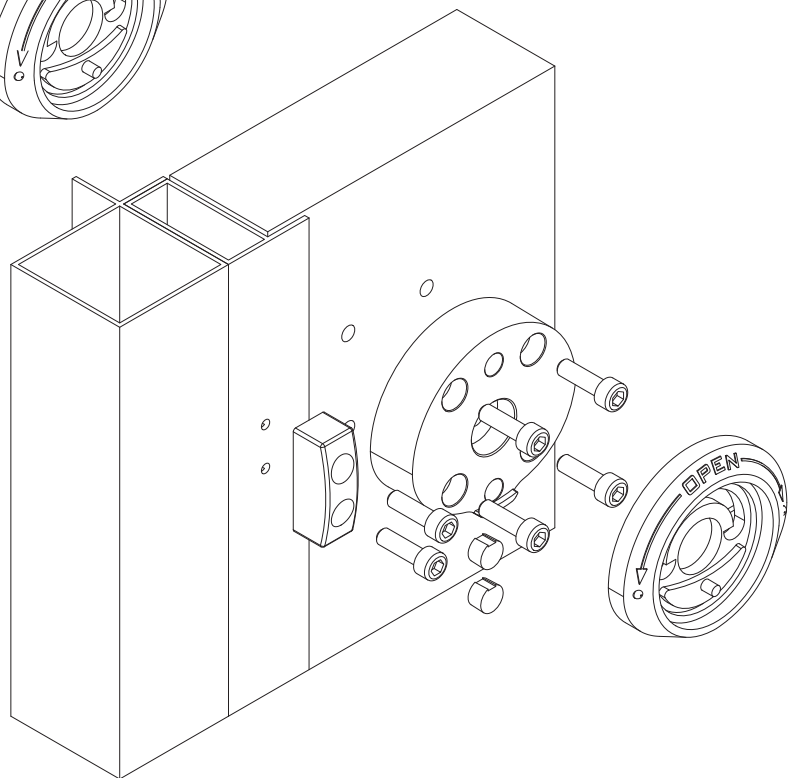


AVAILABLE VERSIONS

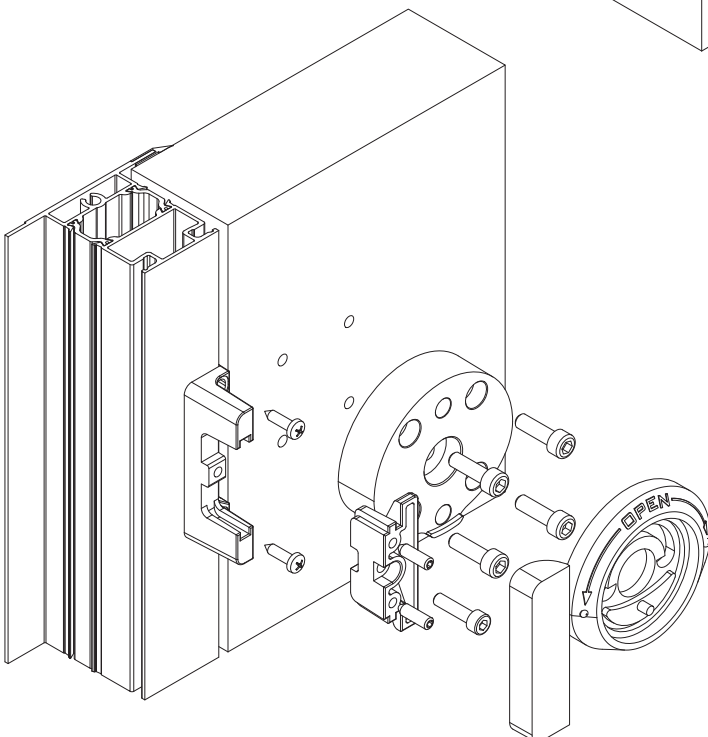
1. STANDARD VERSION

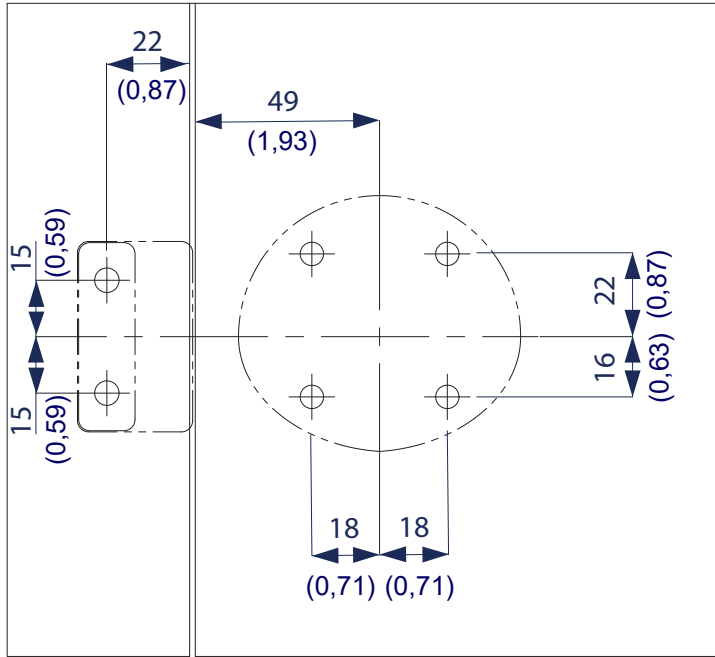


2. PRESSURE VERSION

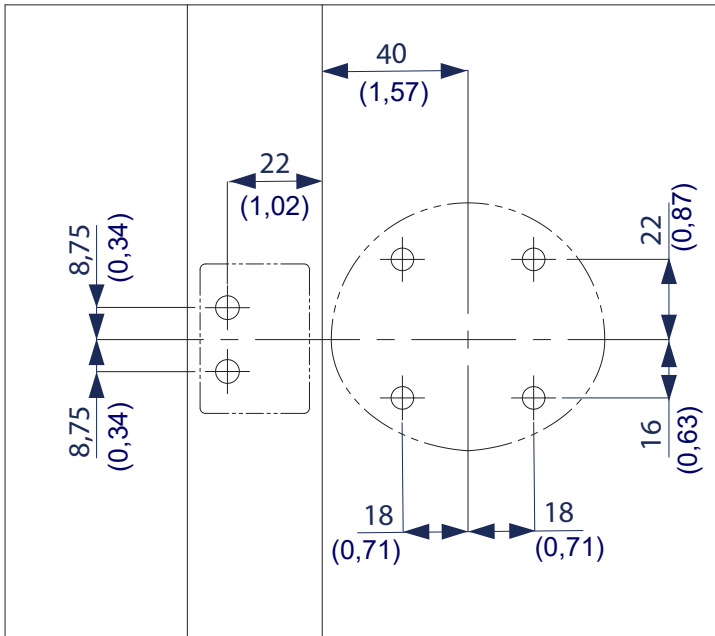
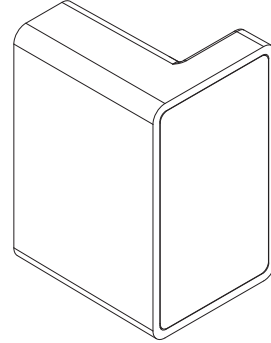


3. ADJ VERSION

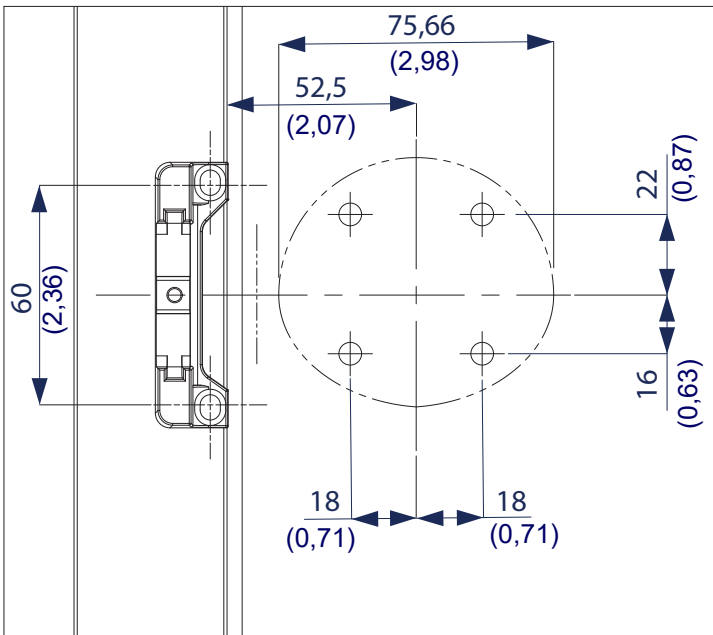
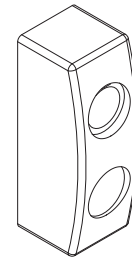




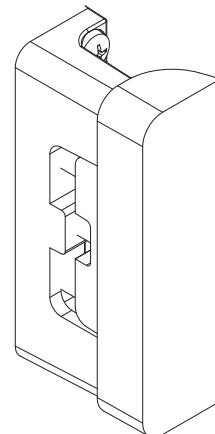
**DRILLING DRAWING
STANDARD VERSION**



**DRILLING SCHEME
PRESSURE SYSTEM**



**DRILLING SCHEME
ADJ SYSTEM**

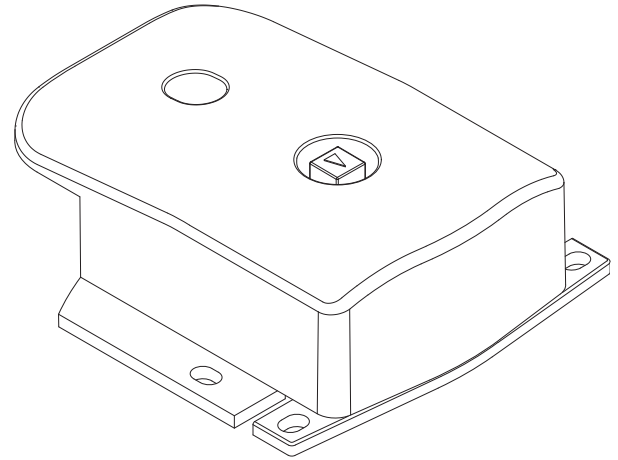
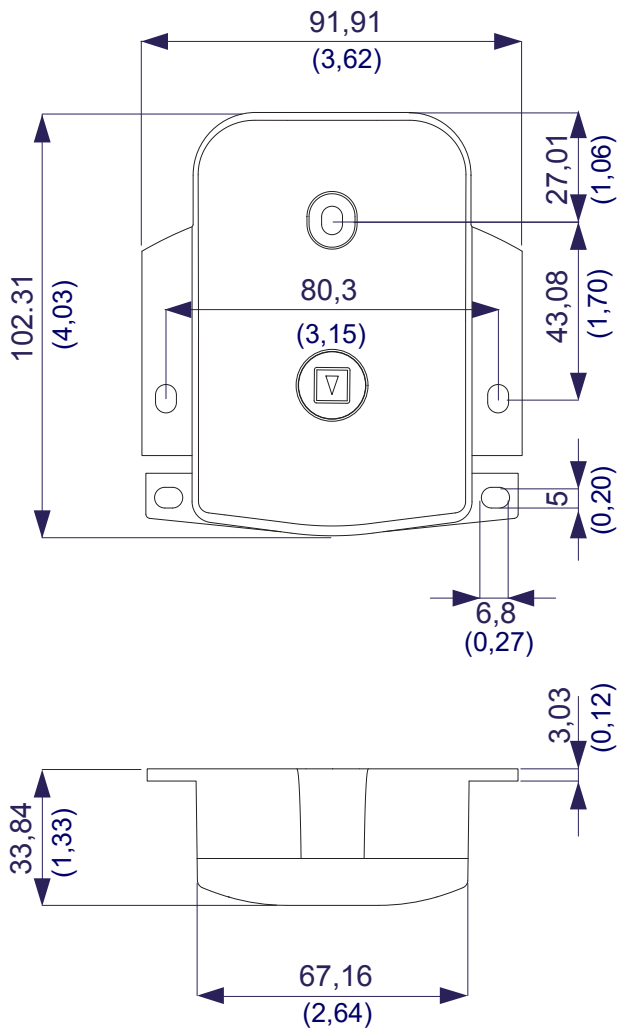


Code	Description	Pin (mm)
DN ISO (1) 20/40 S (P)	Handle for panel 20÷40, SI	89Pcs.
DN ISO (1) 45/60 S (P)	Handle for panel 45÷60, SI	109
DN ISO (1) 20/40 D (P)	Handle for panel 20÷40, IH-SI	89
DN ISO (1) 45/60 D (P)	Handle for panel 45÷60, IH-SI	109
DN ISO (1) 20/40 S-S1 (P)	Handle for panel 20÷40, SD, SI	89
DN ISO (1) 45/60 S-S1 (P)	Handle for panel 45÷60, SD, SI	109
DN ISO (1) 20/40 D-S1 (P)	Handle for panel 20÷40, IH, SD, SI	89
DN ISO (1) 45/60 D-S1 (P)	Handle for panel 45÷60, IH-SI-SD	109
DN ISO (1) 20/40 K-S (P)	Handle for panel 20÷40, key, SI	89
DN ISO (1) 45/60 K-S (P)	Handle for panel 45÷60, key, SI	109
DN ISO (1) 20/40 K-D (P)	Handle for panel 20÷40, key, IH, SI	89
DN ISO (1) 45/60 K-D (P)	Handle for panel 45÷60, key, IH, SI	109
DN ISO (1) 20/40 K-S-S1 (P)	Handle for panel 20÷40, padlockable, SD,SI	89
DN ISO (1) 45/60 K-S-S1 (P)	Handle for panel 20÷40, padlockable, SD, SI	109
DN ISO (1) 20/40 K-D-S1 (P)	Handle for panel 20÷40, key, IH-SI	89
DN ISO (1) 45/60 K-D-S1 (P)	Handle for panel 45÷60, key, IH, SI	109
DN ISO (1) 20/25 S-S1 ADJ	Handle for panel 20÷25, SI-RL	89
DN ISO (1) 40/50 S-S1 ADJ	Handle for panel 45÷60, SI-RL	109
DN ISO (1) 60/70 S-S1 ADJ	Handle for panel 60÷70, SI-RL	129
DN ISO (1) 20/25 D-S1 ADJ	Handle for panel 20÷25, IH-SI-RL	89
DN ISO (1) 40/50 D-S1 ADJ	Handle for panel 40÷50, IH-SI-RL	109
DN ISO (1) 60/70 D-S1 ADJ	Handle for panel 60÷70, IH-SI-RL	129
DN ISO (1) 20/25 KSS1 ADJ	Handle for panel 20÷25, key, SI-RL	89
DN ISO (1) 40/50 KSS1 ADJ	Handle for panel 40÷50, key, SI-RL	109
DN ISO (1) 60/70 KSS1 ADJ	Handle for panel 60÷70, key, SI-RL	129
DN ISO (1) 20/25 KDS1 ADJ	Handle for panel 20÷25, key, IH-SI-RL	89
DN ISO (1) 40/50 KDS1 ADJ	Handle for panel 40÷50, key, IH-SI-RL	109
DN ISO (1) 60/70 KDS1 ADJ	Handle for panel 60÷70, key, IH-SI-RL	129

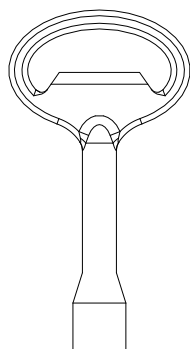
ABBREVIATION USED
 (1) = Knob version with removable key
 SI = Screws Included
 IH = Internal Handle
 SD = Security Device for positive pressure
 RL = Adjustable Rotating Latch
 (P) = Padlockable version
 DSL = Linkage device

Code	Description	Packing
DN ISO-0	External handle for TB, SI	25 Pcs.
DN ISO-0 K	External handle with key for TB, SI	25 Pcs.
DN ISO-0 P	External handle for doors in pressure, SI	25 Pcs.
DN ISO-0 P-K	External handle for doors in pressure,with key, SI	25 Pcs.
DN ISO-0 1	External lock, (TB), SI	25 Pcs.
DN ISO-0 1 K	External lock with key, (TB), SI	25 Pcs.
DN ISO-0 1 P	External lock for panel in pressure, SI	25 Pcs.
DN ISO-0 1 P K	External lock with key for panels in pressure, SI	25 Pcs.
DN ISO-0 ADJ	External handle with adjustable aluminium latch, TB, SI	25 Pcs.
DN ISO-0 K ADJ	External handle with key with adjustable latch, TB, SI	25 Pcs.
DN ISO-0 1 ADJ	External lock with adjustable aluminium latch, TB, SI	25 Pcs.
DN ISO-0 1 K ADJ	External lock with key with adjustable latch; TB, SI	25 Pcs.

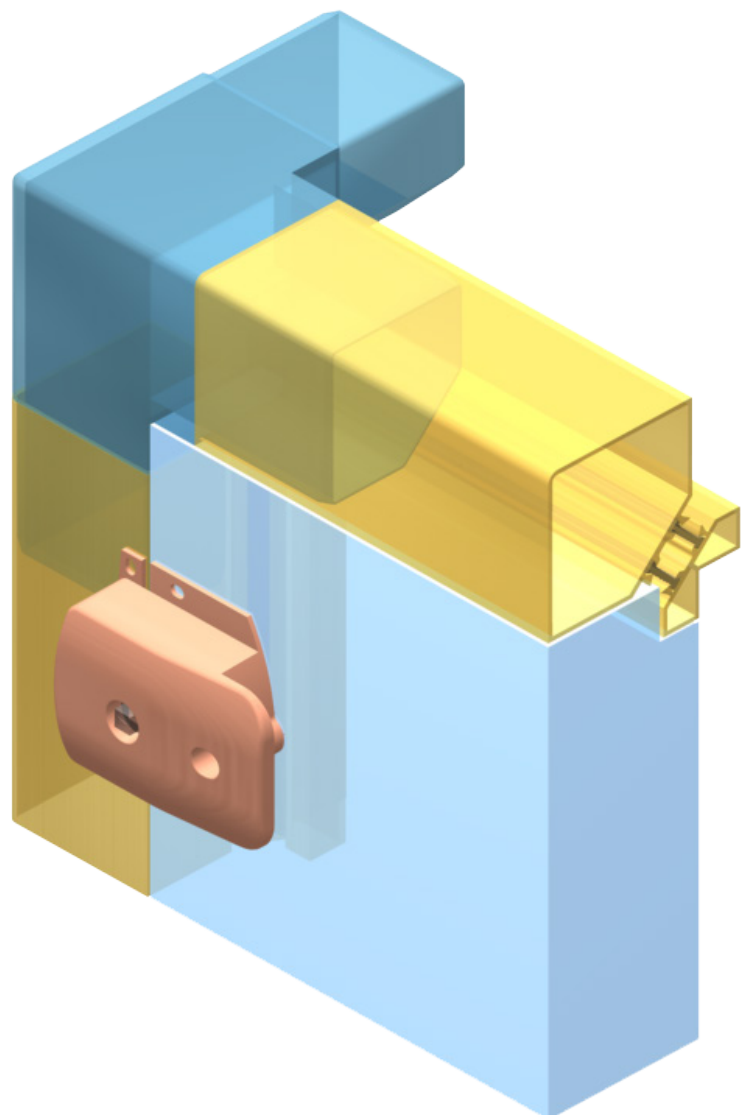
ABBREVIATION USED
 SI = Screws Included
 IH = Internal Handle
 SD = Security Device for positive pressure
 RL = Rotating Latch
 TB = specific for Thermal Break system
 DSL = linkage system



A 85-0
Zamak external handle
painted black

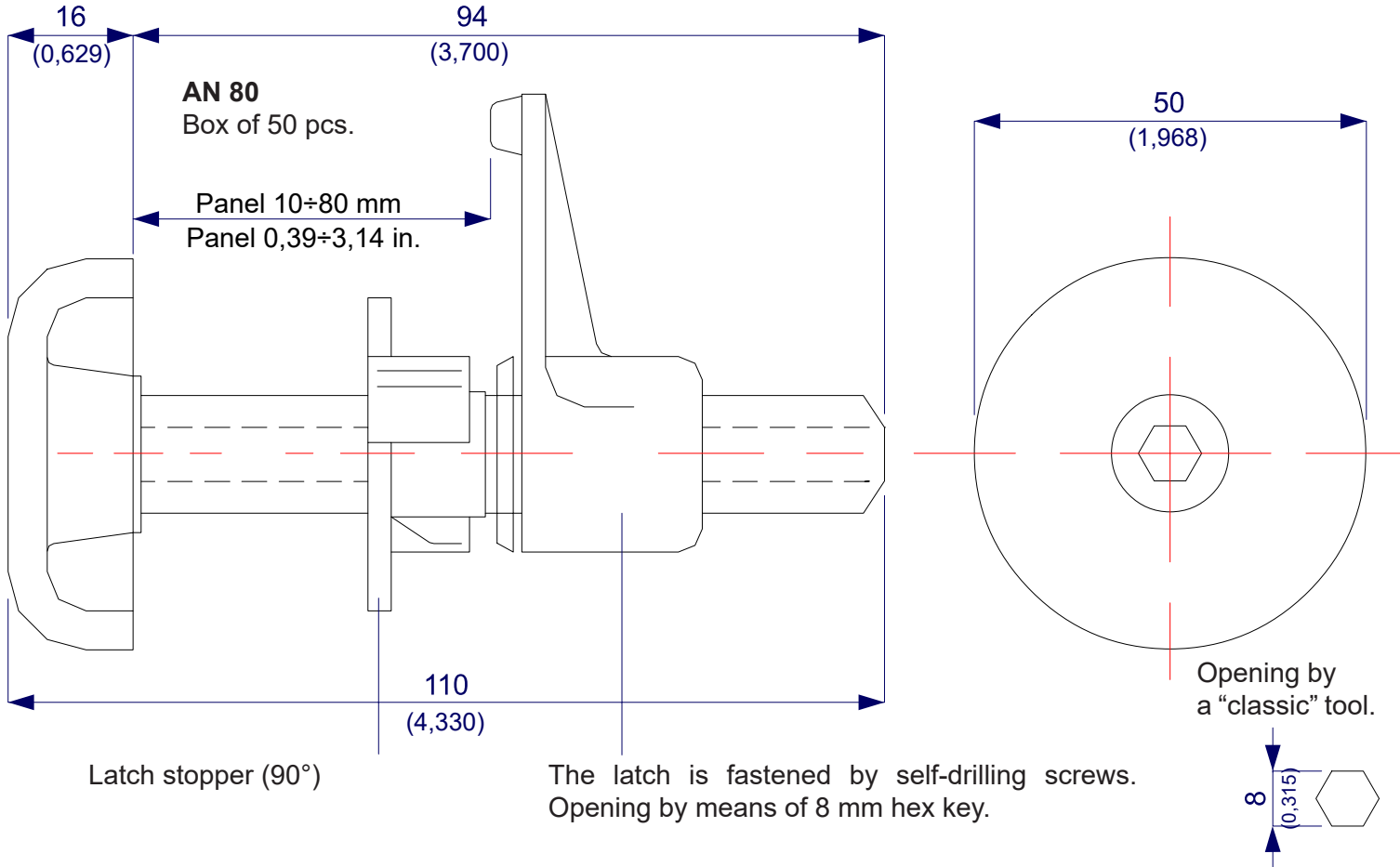


AZ K1
Zamak key

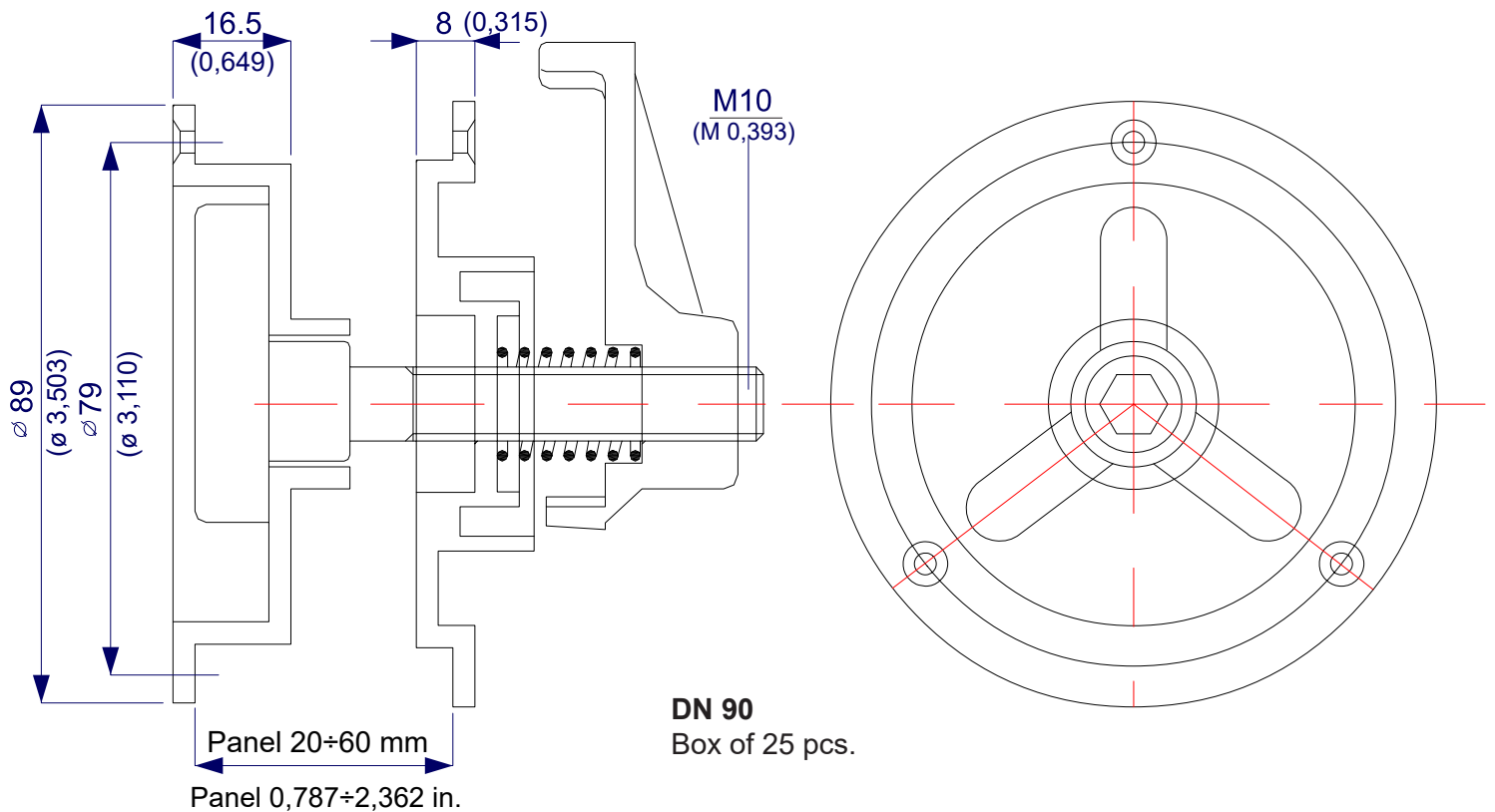


DRAWINGS NOT TO SCALE

Nylon lock with aluminium pin

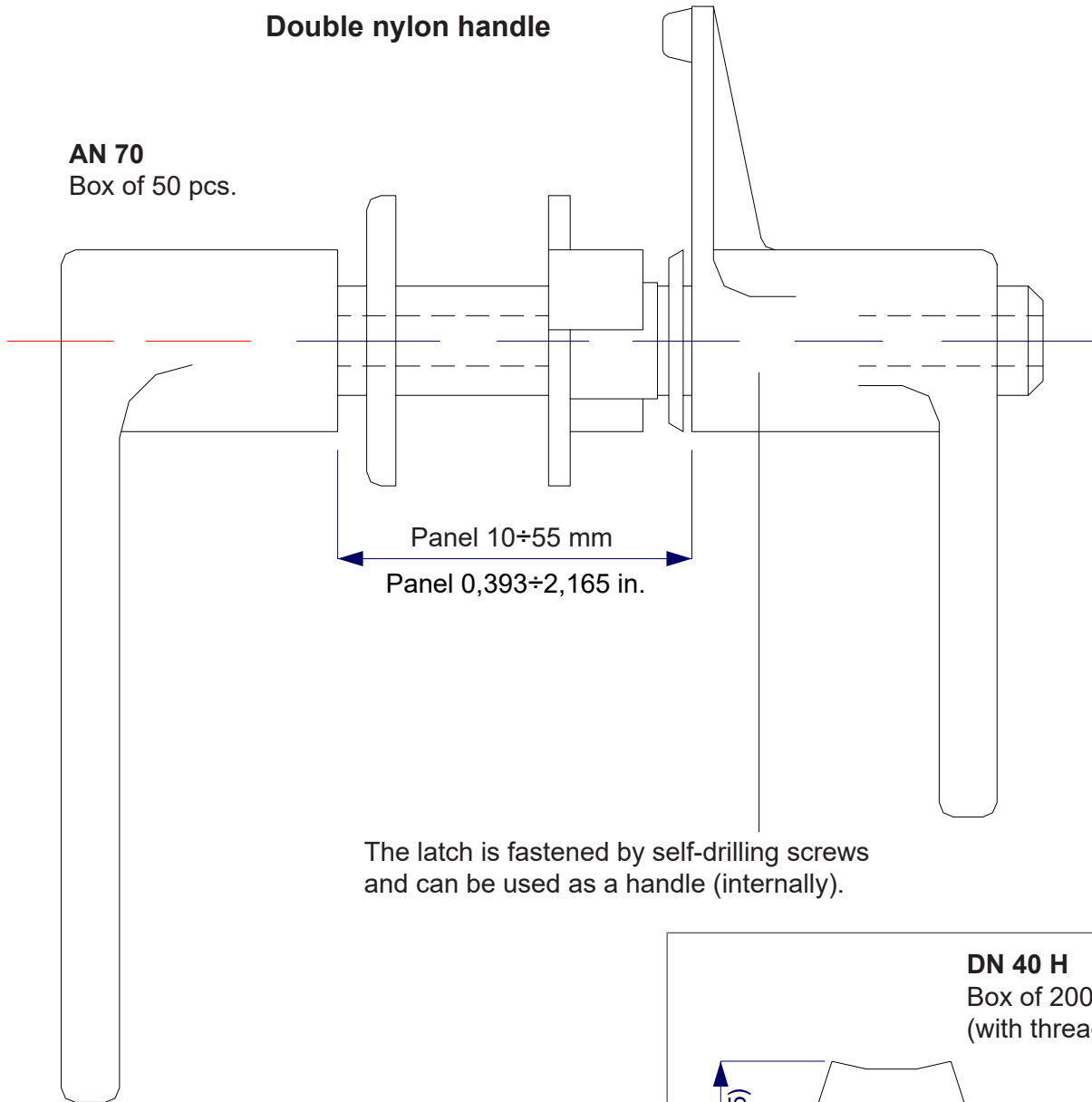


Flat lock (handle in line with the panel)



Double nylon handle

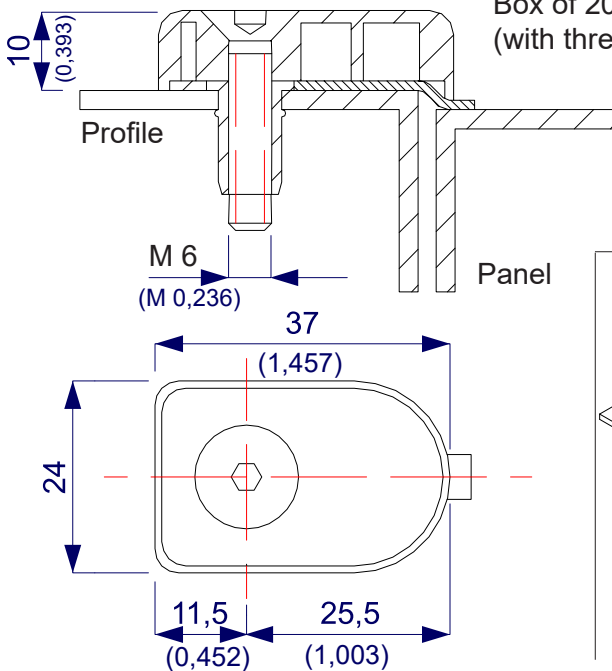
AN 70
Box of 50 pcs.



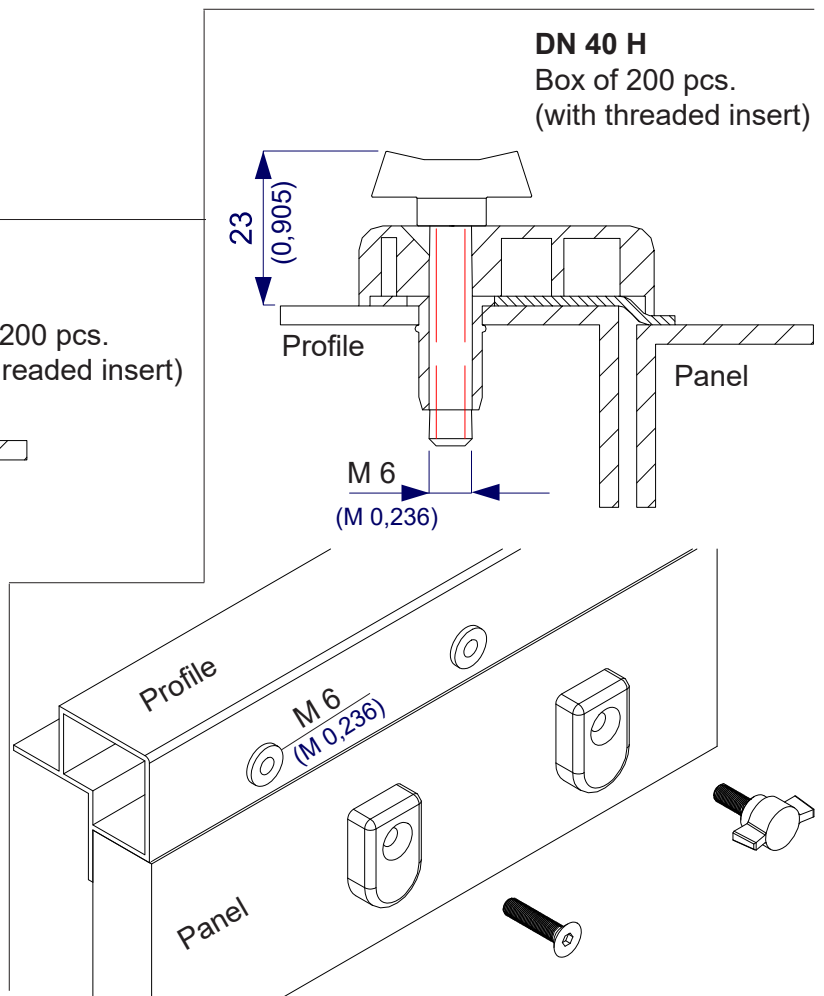
The latch is fastened by self-drilling screws and can be used as a handle (internally).

Nylon panel stop

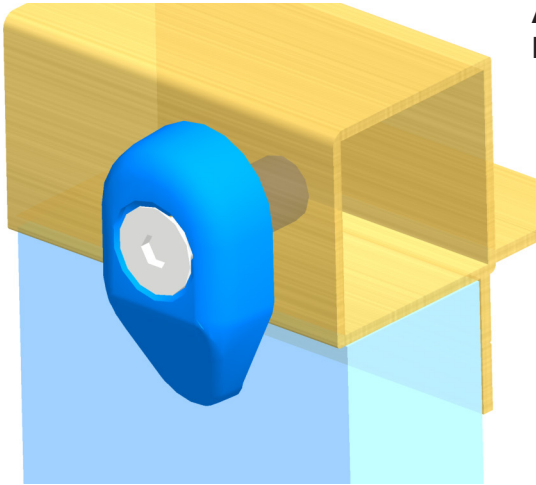
DN 40
Box of 200 pcs.
(with threaded insert)



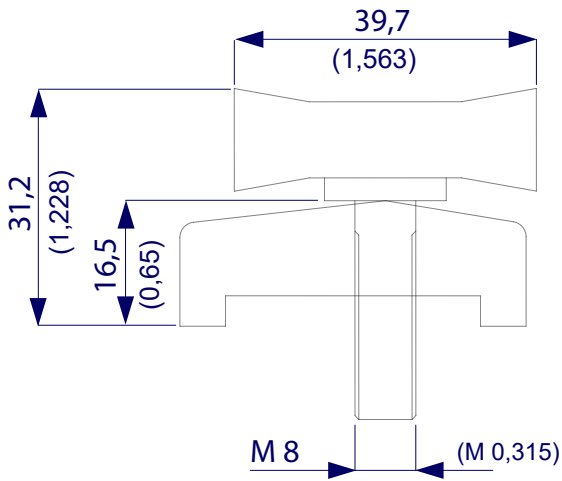
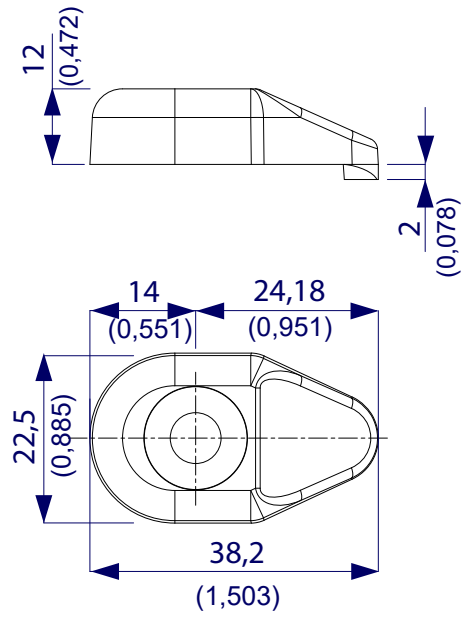
DN 40 H
Box of 200 pcs.
(with threaded insert)



Aluminium panel stop

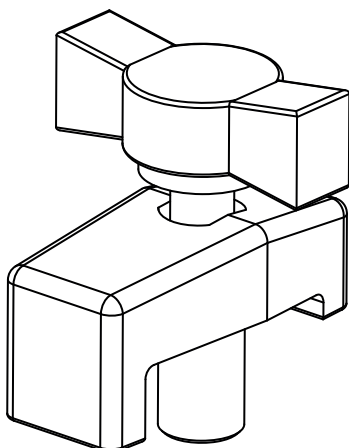
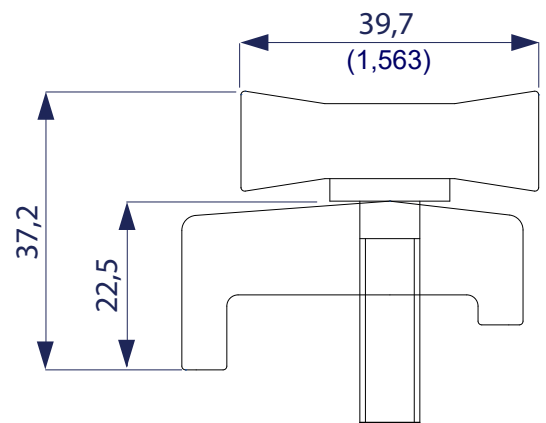
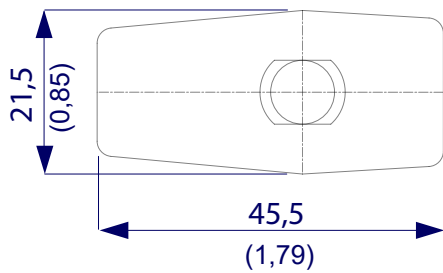
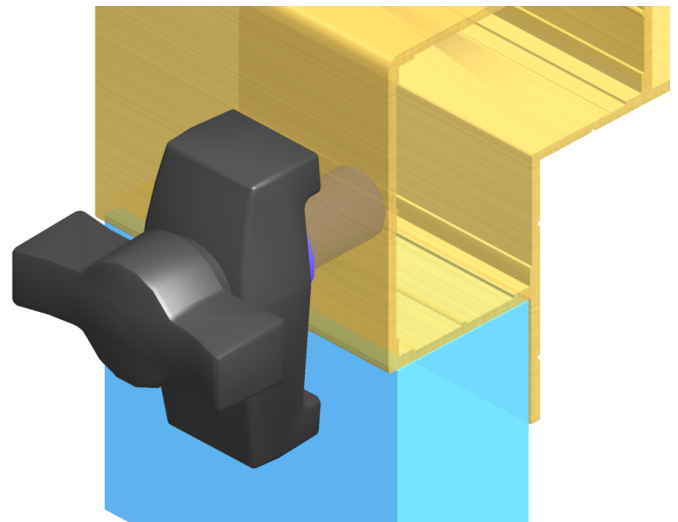


A 40
Box of 400 pcs.



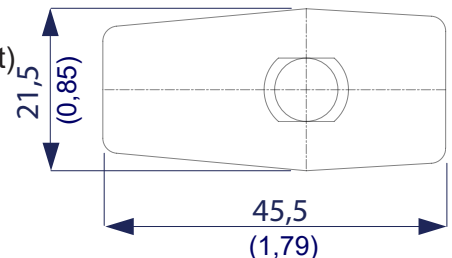
DN 42

Box of 300 pcs.
(Complete with threaded insert)



DN 42 PS

Box of 300 pcs.
(Complete with threaded insert)
PER SISTEMI 60-55 E 35



Double handle available for panels of thickness from 14 mm to 54 mm

Keep a gap of 2 mm (0,78 in.) between panel and profile

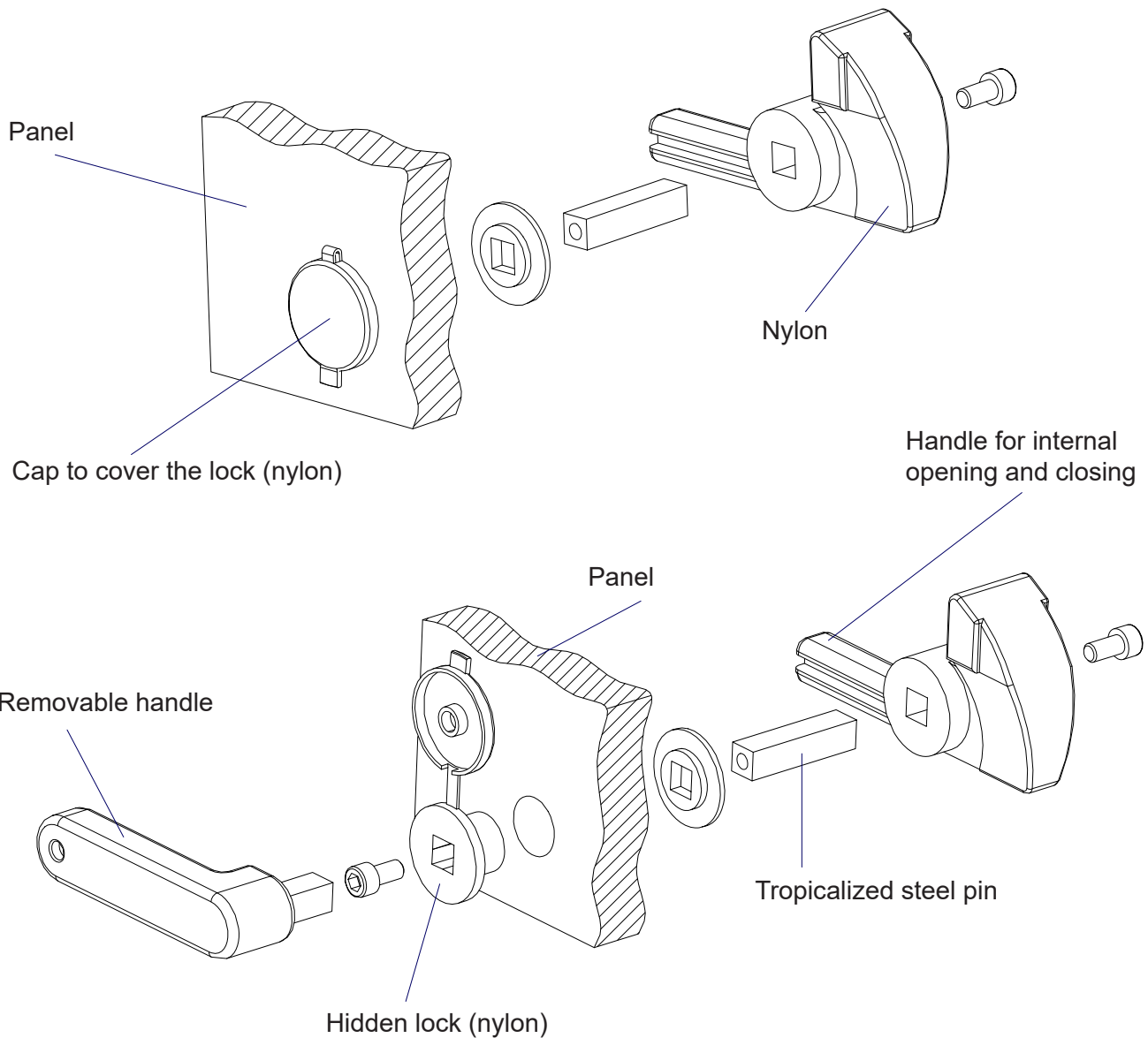
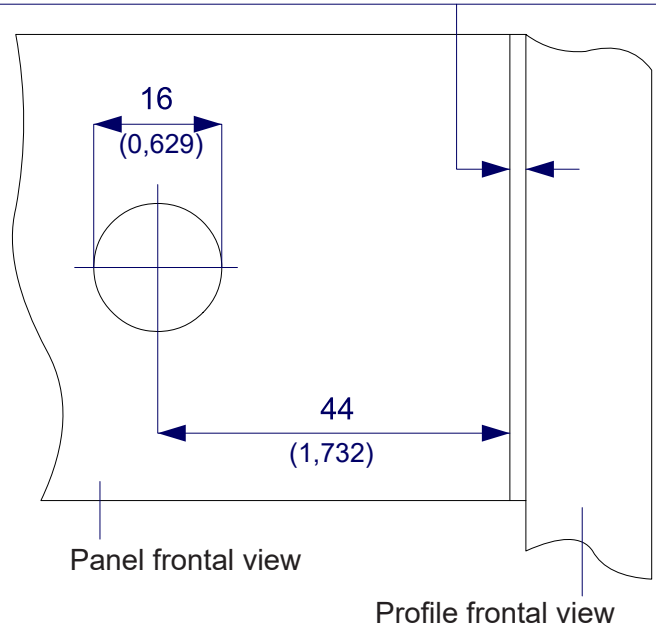
DN SF 14-17 Lock Box of 50 pcs.

DN SF 19-23 Lock Box of 50 pcs.

DN SF 23-26 Lock Box of 50 pcs.

DN SF 43-48 Lock Box of 50 pcs.

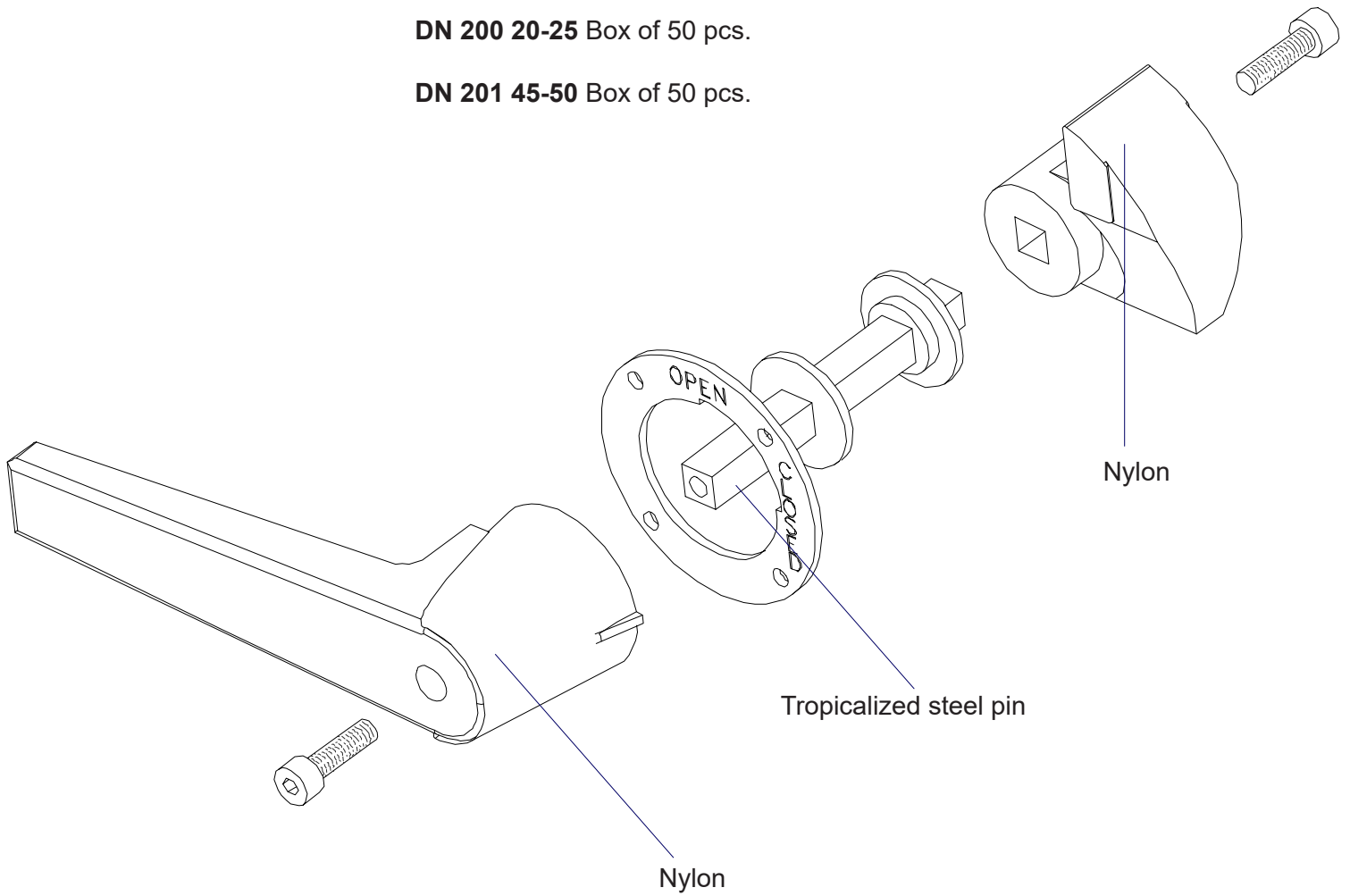
DN SF 49-54 Lock Box of 50 pcs.



Nylon handle for panels of thickness: 20 / 25 / 45 / 50 mm

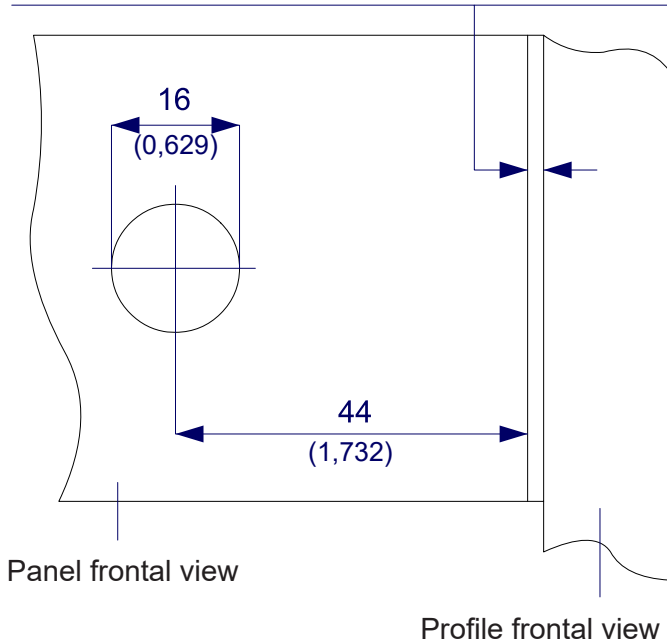
DN 200 20-25 Box of 50 pcs.

DN 201 45-50 Box of 50 pcs.



Hole distance for handle

Keep a gap of 2 mm (0,87 in.) between panel and profile



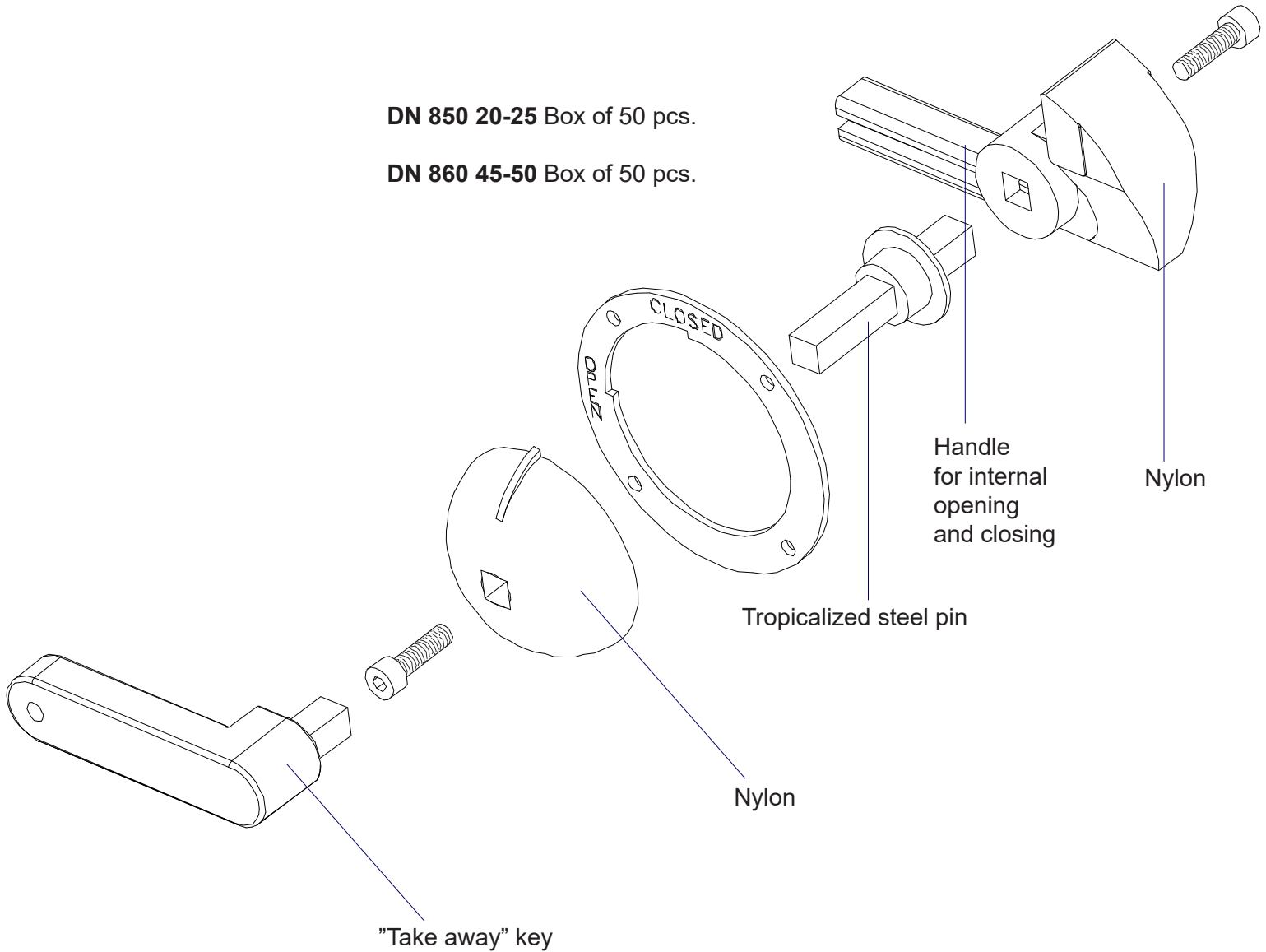
Available pins

- DS 31** square pin 8 for DN 850 / 20-25
L = 31 mm (1,220 in.)
- DS 56** square pin 8 for DN 860 / 45-50
L = 56 mm (2,204 in.) DN 200 / 20-25
- DS 76** square pin 8 for handles 76 mm
L = 76 mm (2,992 in.)
- DS 81** square pin 8 for DN 201 / 45-50
L = 81 mm (3,189 in.)
- DS 96** square pin 8 for handles 96 mm
L = 96 mm (3,779 in.)
- DS 106** square pin 8 for handles 106 mm
L = 106 mm (4,173 in.)

Double lock with key for panels of thickness: 20 / 25 / 45 / 50 mm

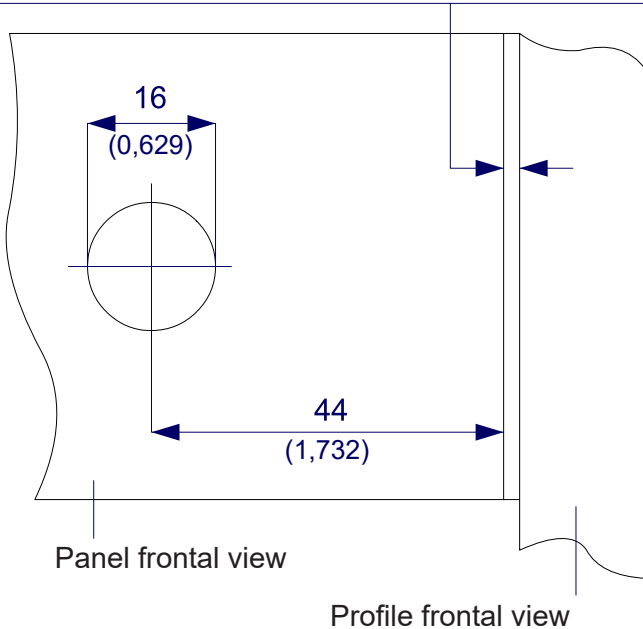
DN 850 20-25 Box of 50 pcs.

DN 860 45-50 Box of 50 pcs.



Hole distance for handle

Keep a gap of 2 mm (0,87 in.) between panel and profile



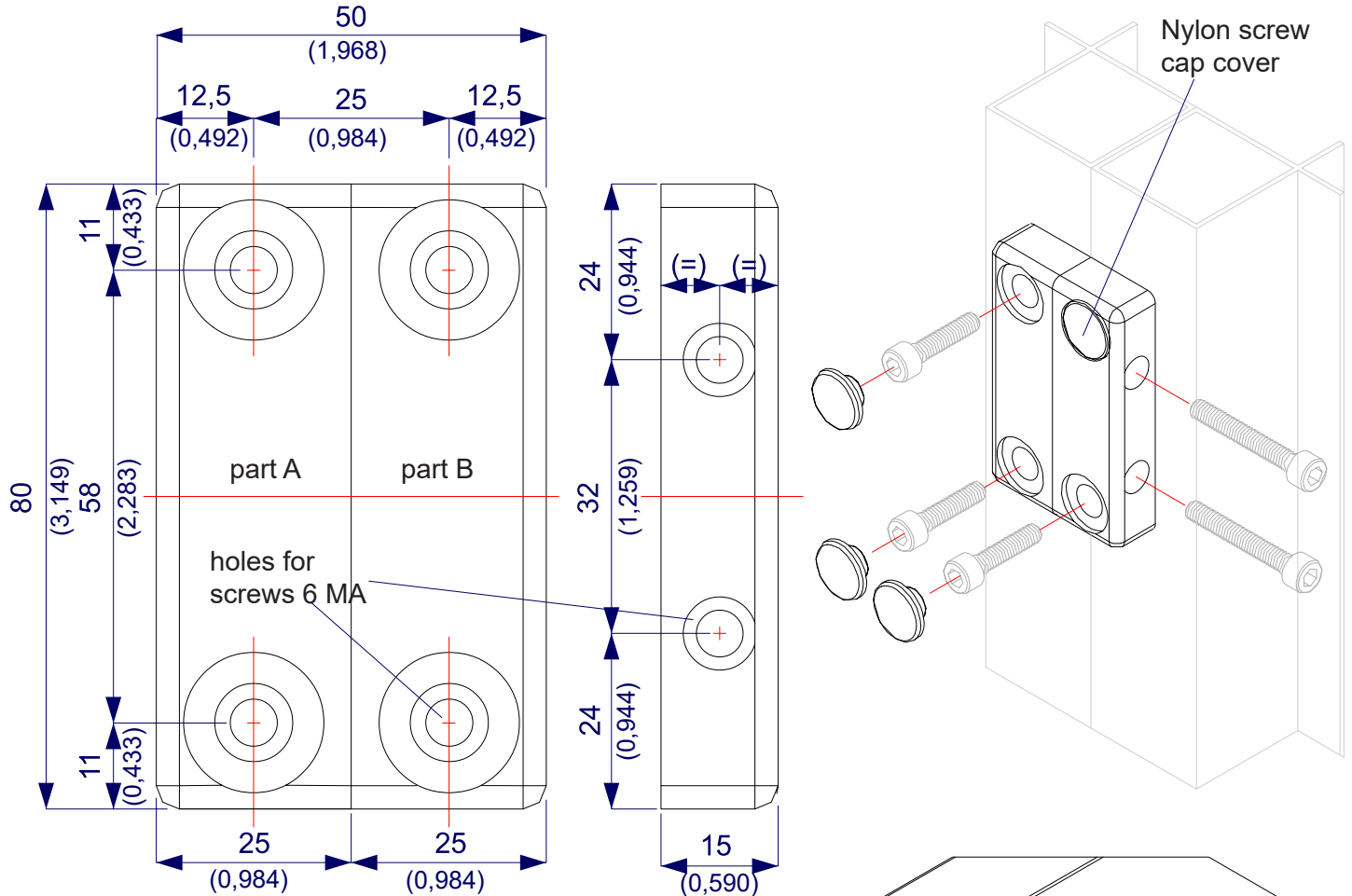
Available pins

- DS 31** square pin 8 for DN 850 / 20-25
L = 31 mm (1,220 in.)
- DS 56** square pin 8 for DN 860 / 45-50
L = 56 mm (2,204 in.) DN 200 / 20-25
- DS 76** square pin 8 for handles 76 mm
L = 76 mm (2,992 in.)
- DS 81** square pin 8 for DN 201 / 45-50
L = 81 mm (3,189 in.)
- DS 96** square pin 8 for handles 96 mm
L = 96 mm (3,779 in.)
- DS 106** square pin 8 for handles 106 mm
L = 106 mm (4,173 in.)

3D representation

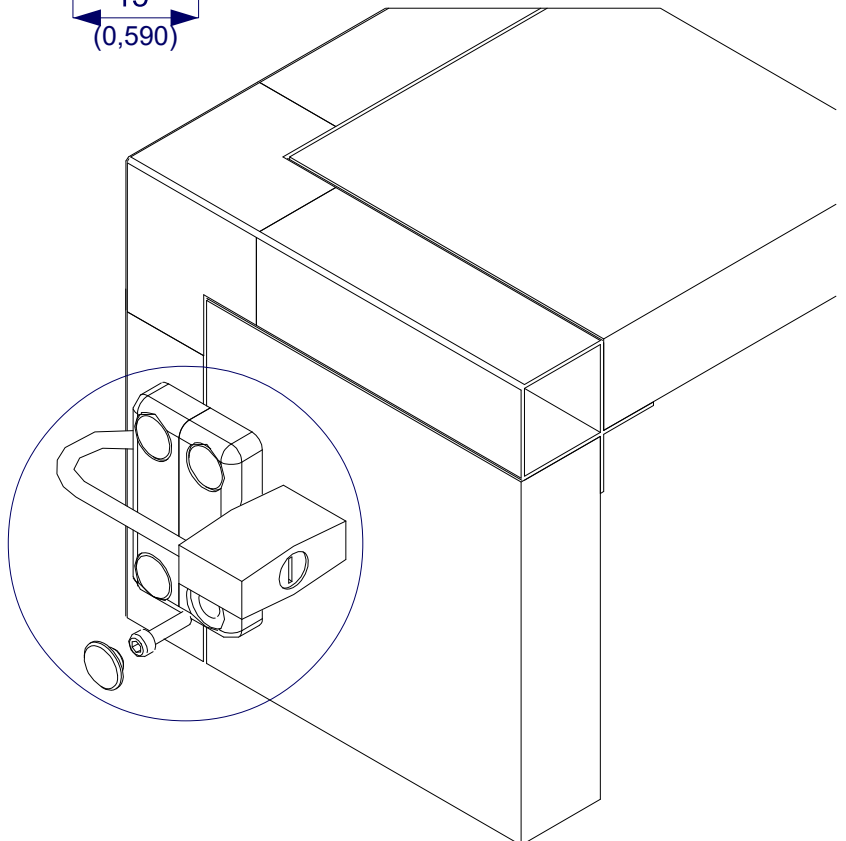
ACB 80x50

Aluminium connecting bracket for unit section complete with screws
Box of 50 pcs.

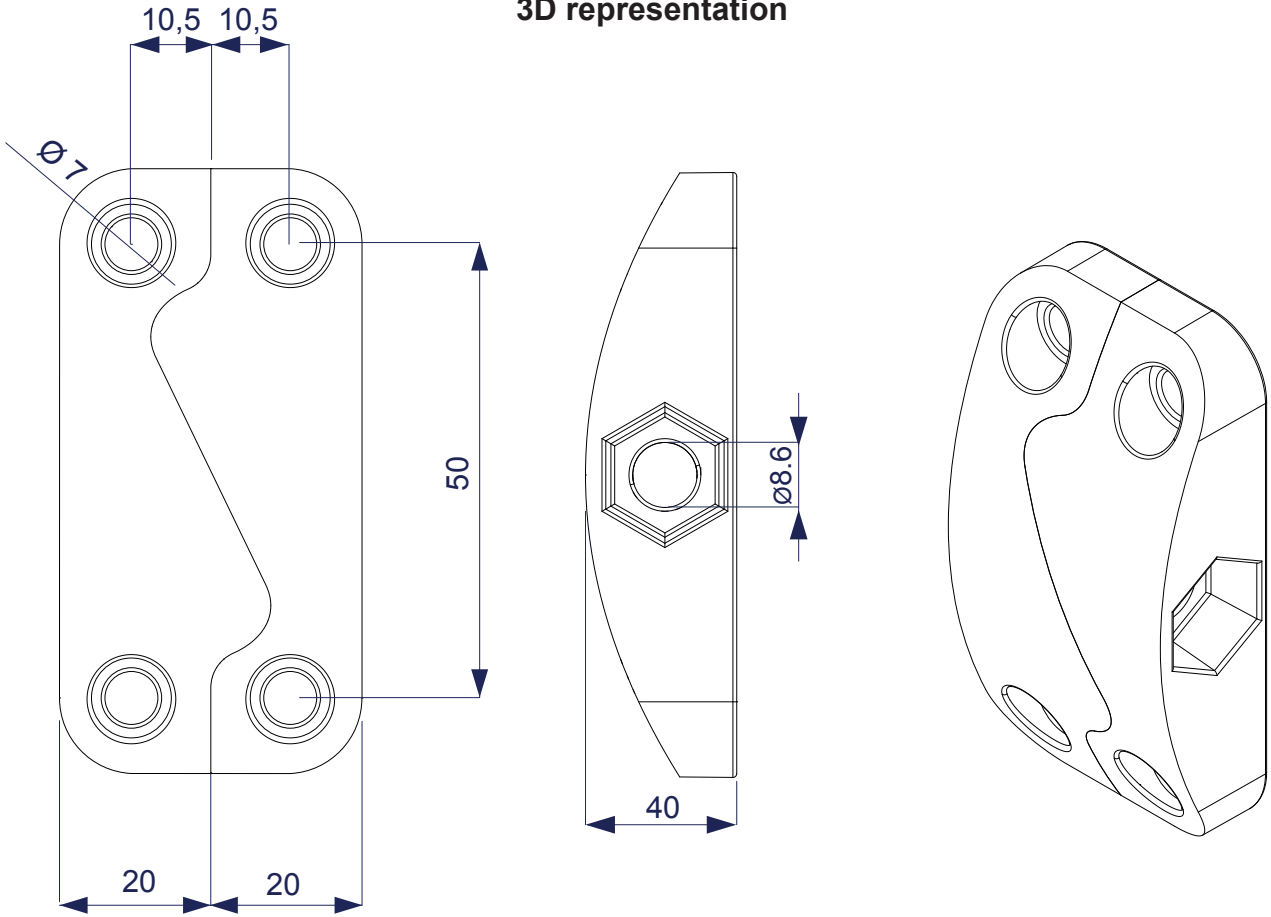


ACB 80x50 P

Padlockable aluminium lock for door (padlock non included)
Box of 50 pcs.

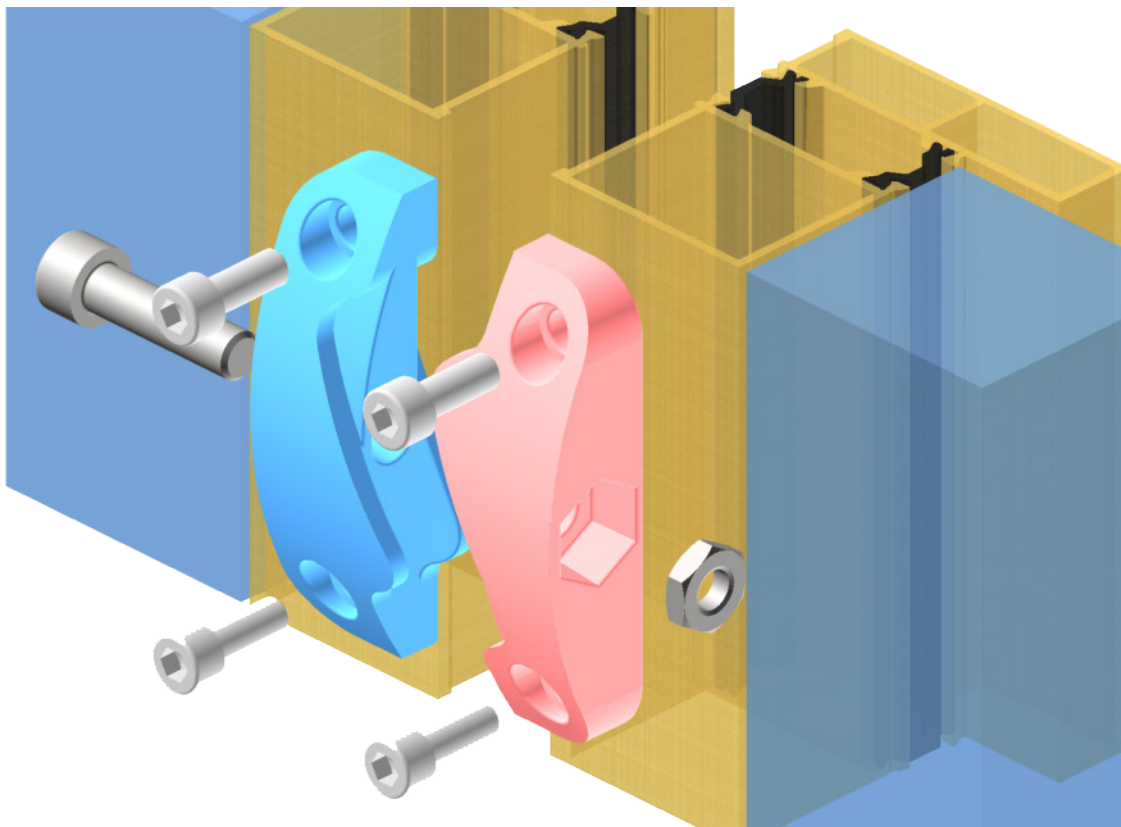


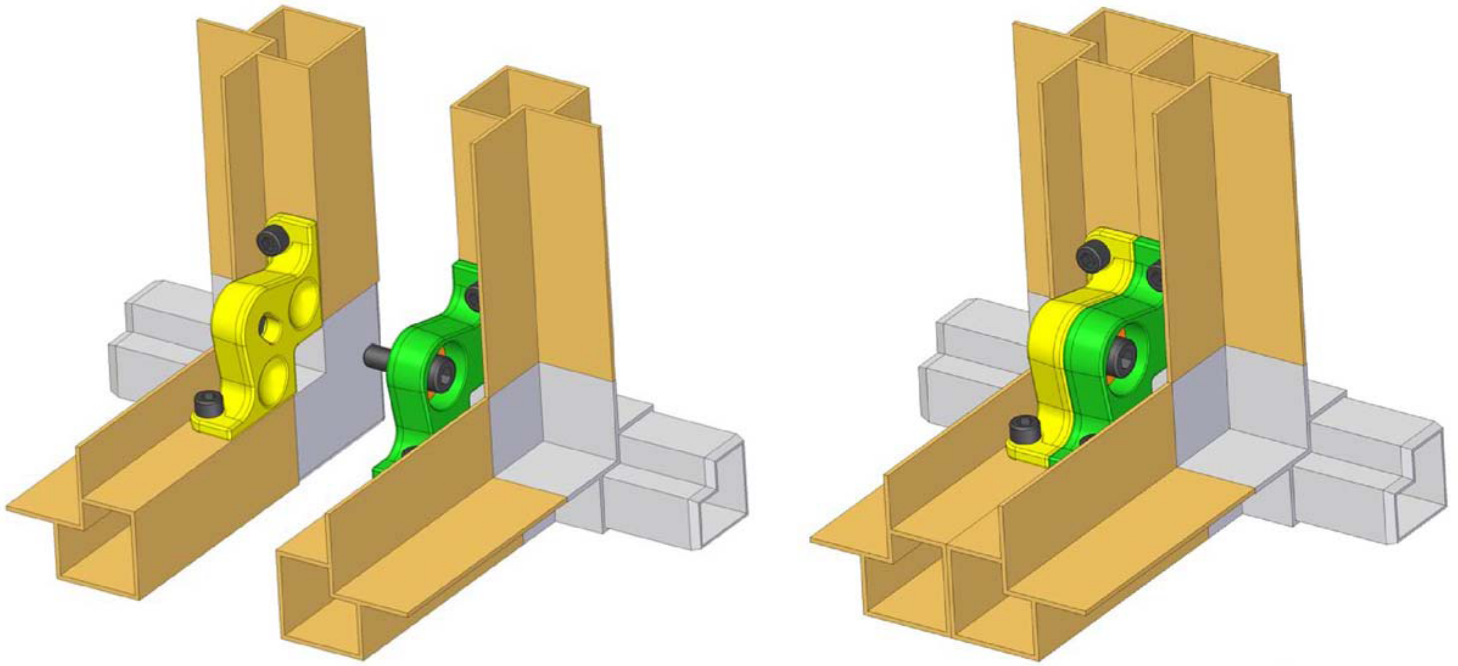
3D representation



ACB 80x40

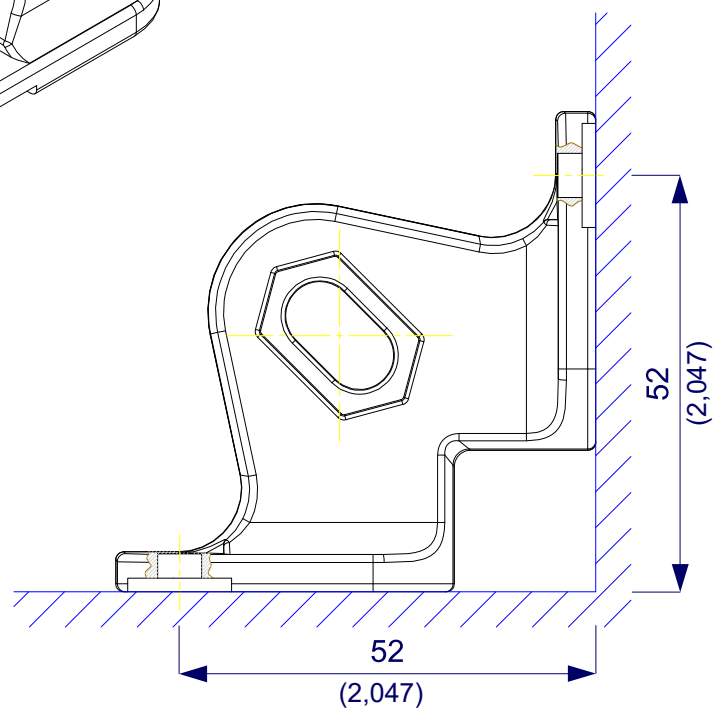
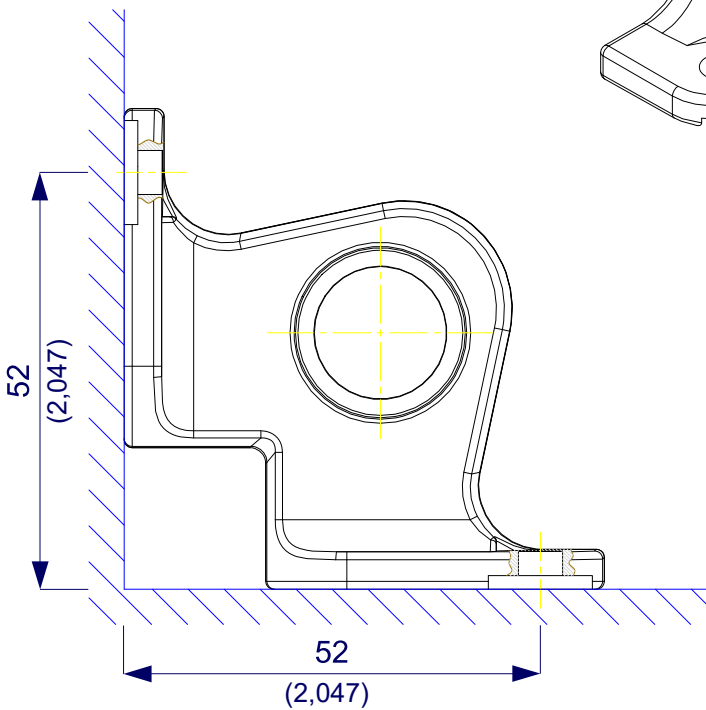
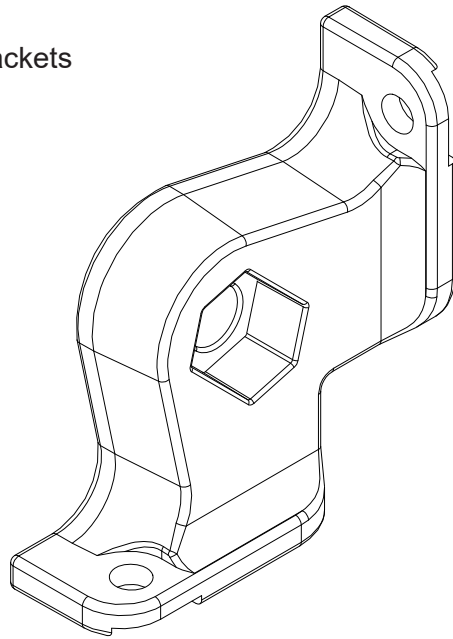
Zamak connecting bracket for unit section
Box of 75 pcs.

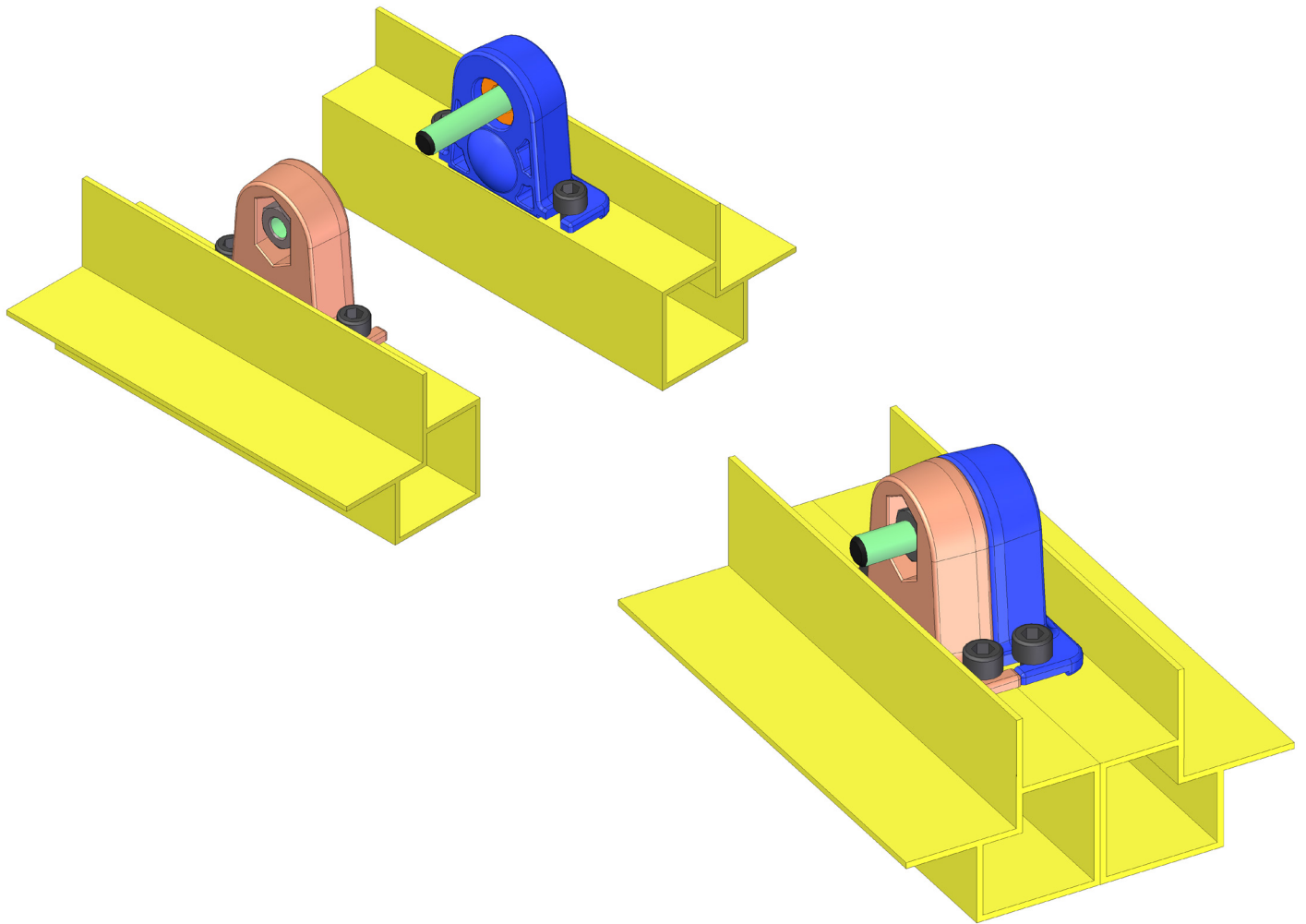




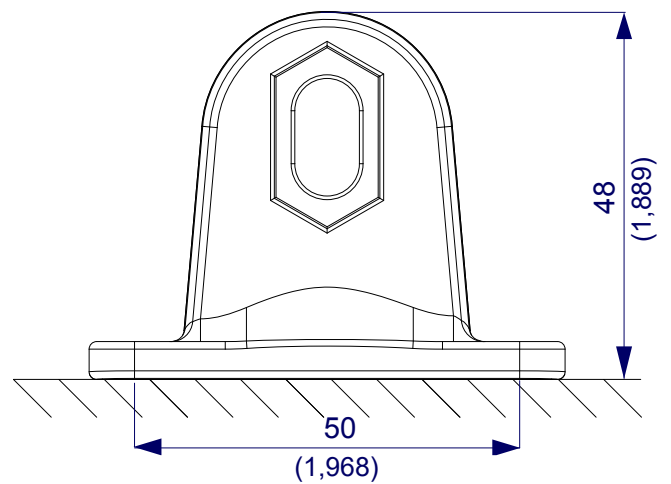
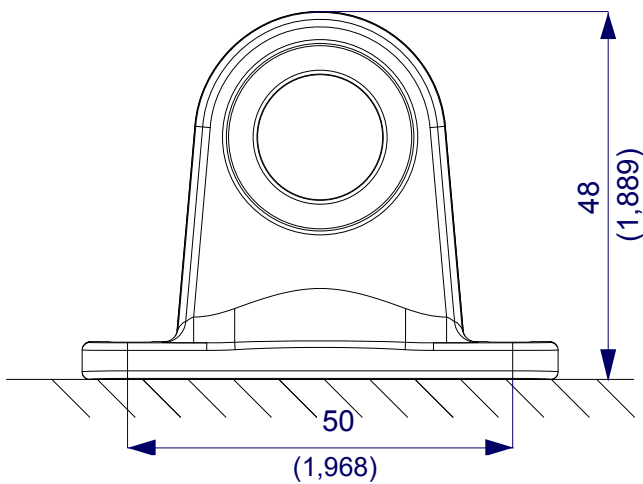
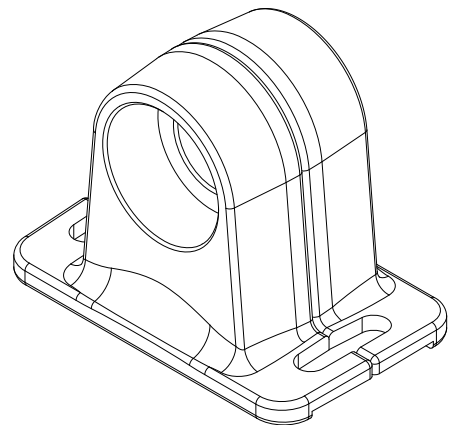
ACB-C1

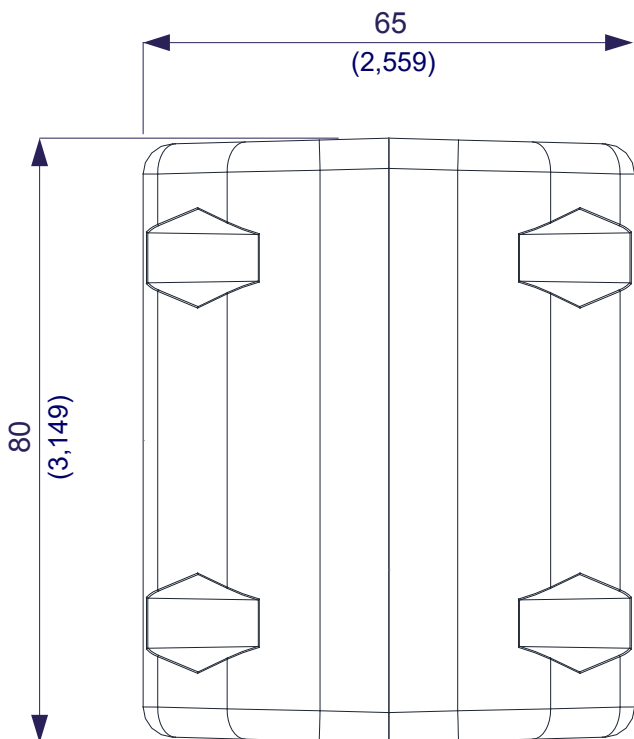
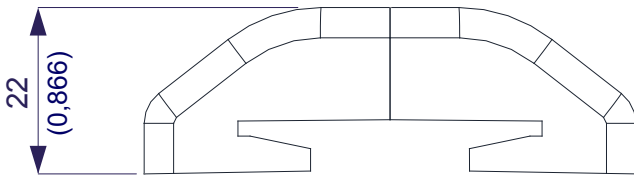
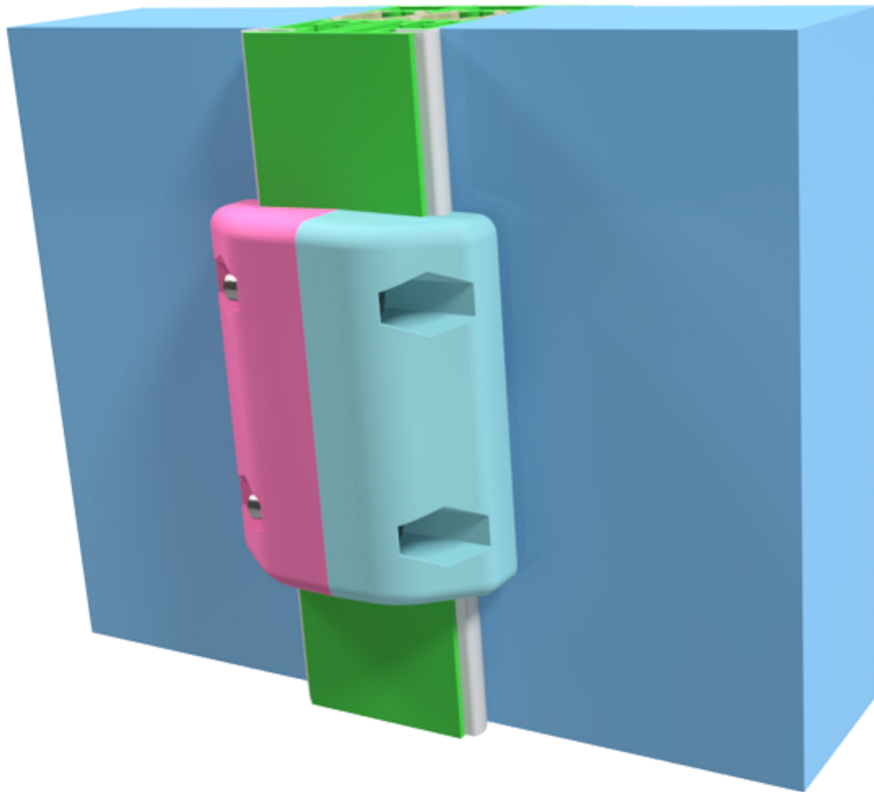
Aluminium connecting and centering brackets
Box of 90 pcs.





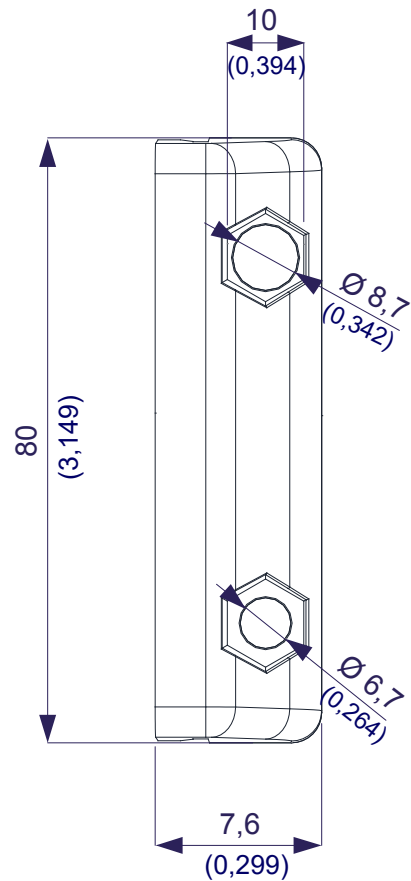
ACB-M1
Aluminium connecting and centering clamps
Box of 90 pcs.

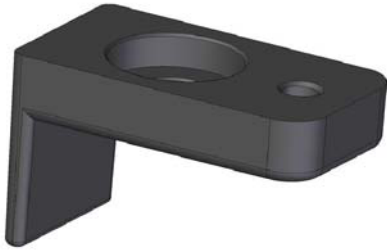




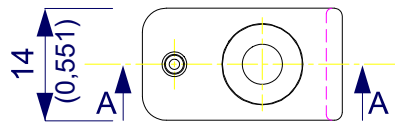
ACB-PS1

Aluminium connecting bracket for
systems 55 and 35
Box of 75 pcs.

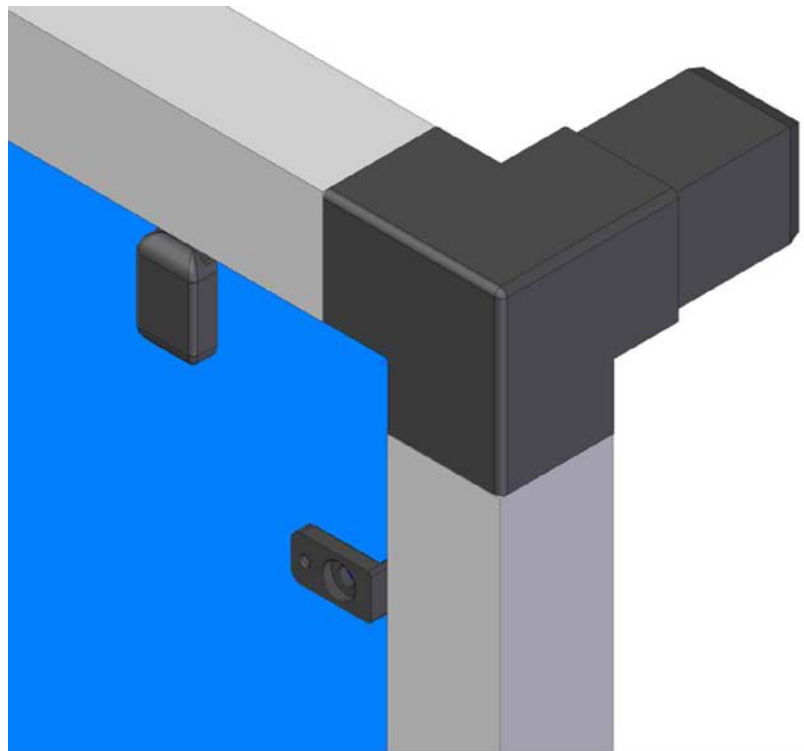
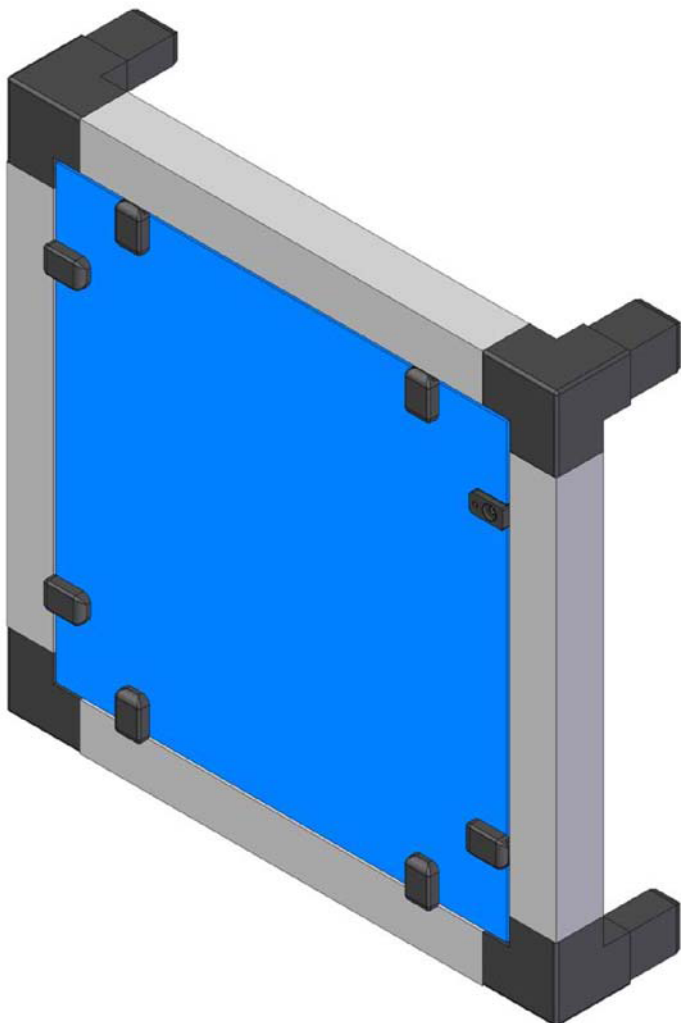
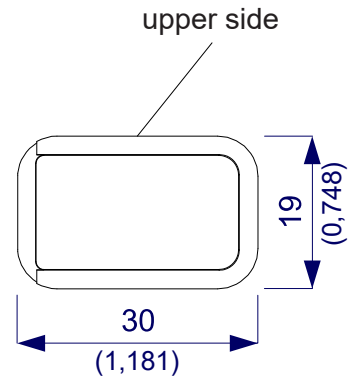
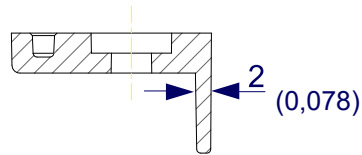


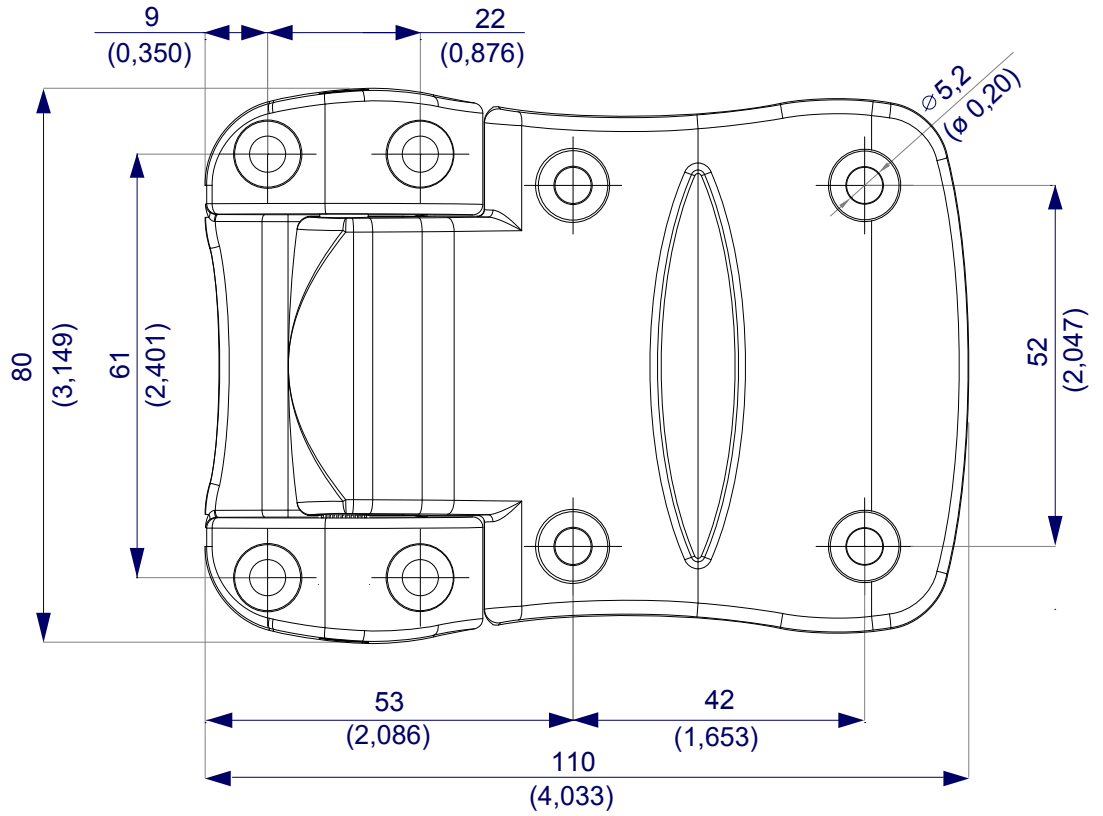


DN 41
Box of 500 pcs.

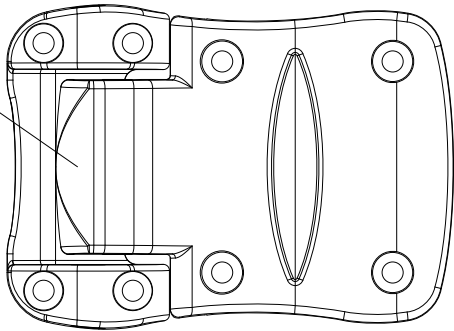
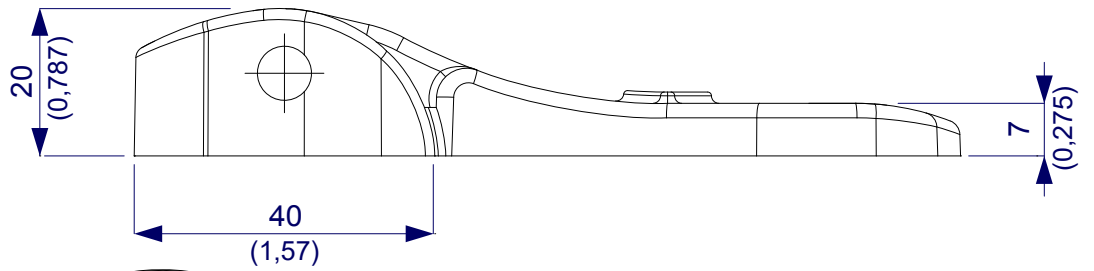


SEZ. A - A



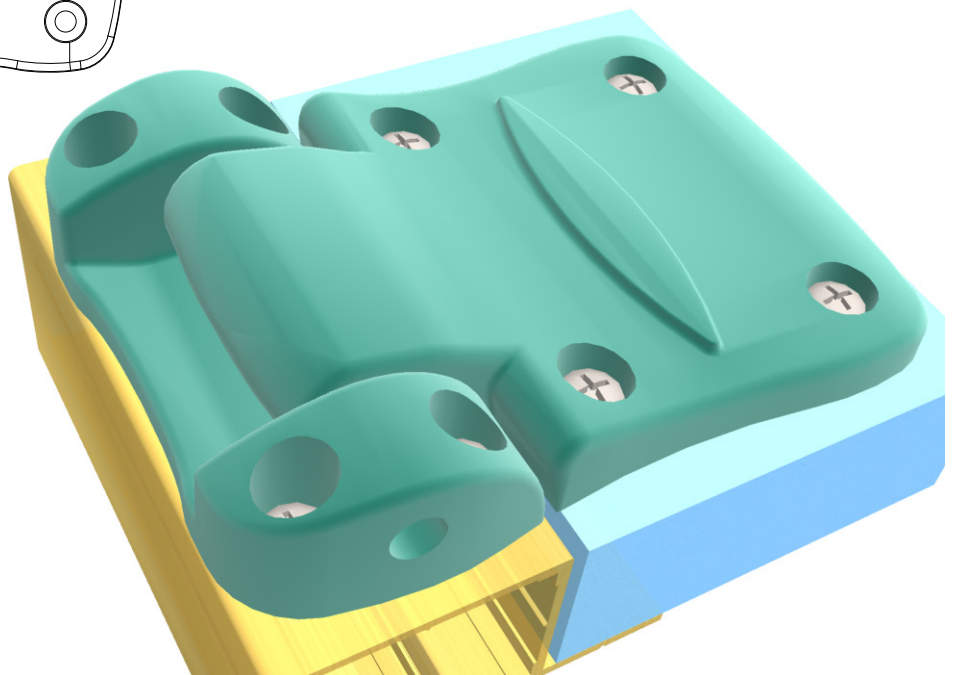


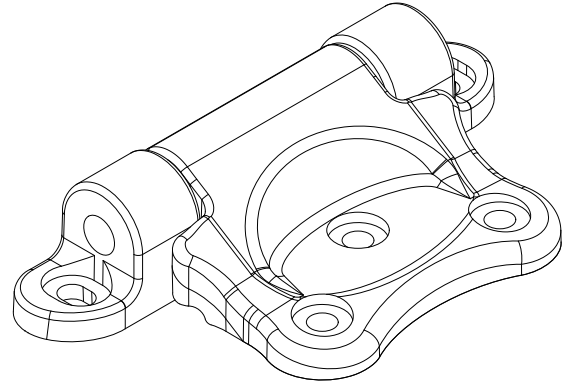
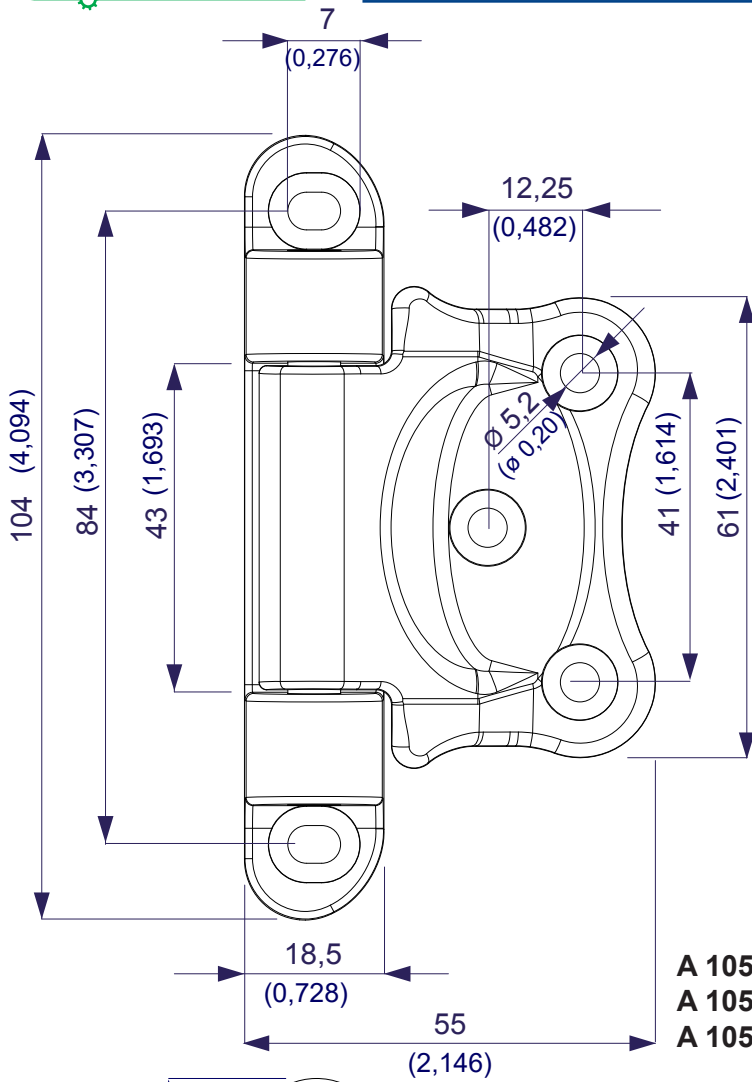
Adjustable part
(up and down)



- A 80x110
- A 80x110-O (Oval hole)
- A 80x110 ADJ (Adjustable)

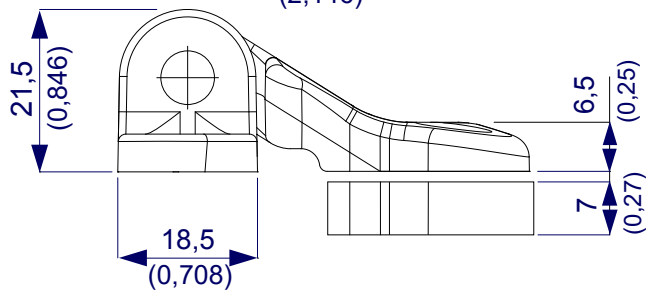
- Box of 50 pcs.
- Box of 50 pcs.
- Box of 50 pcs.



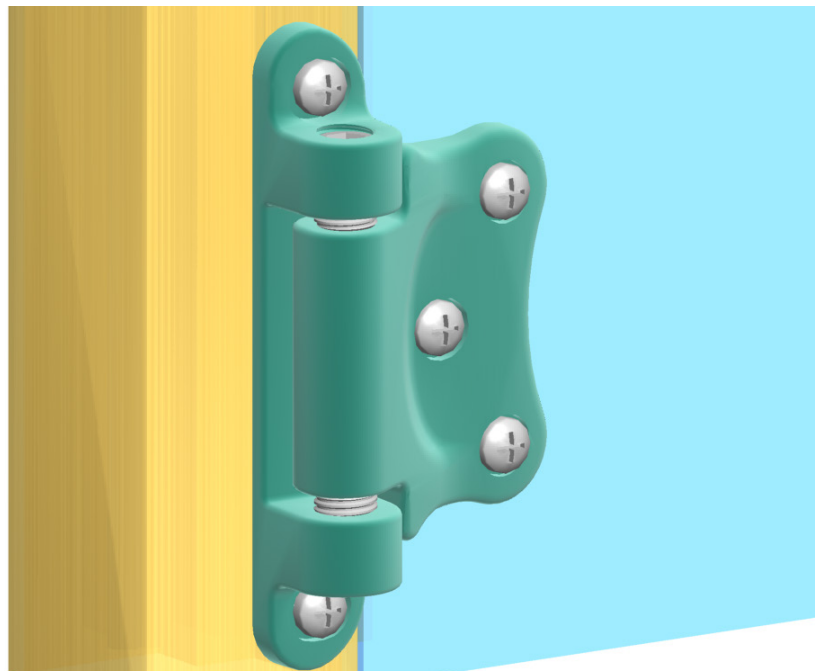


- A 105x55
- A 105x55-O (Oval hole)
- A 105x55 ADJ (Adjustable)

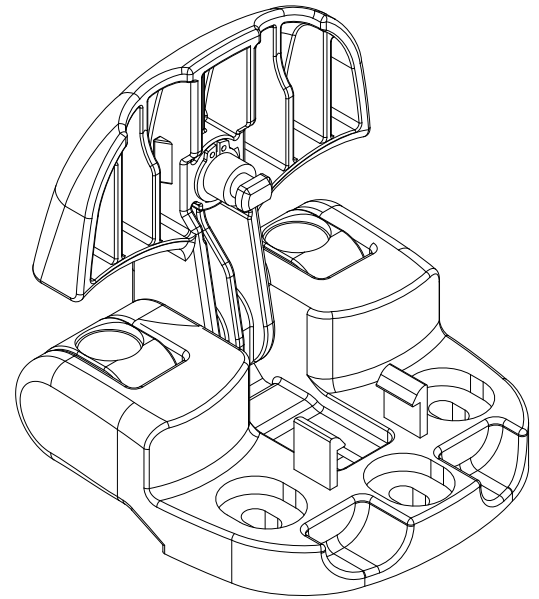
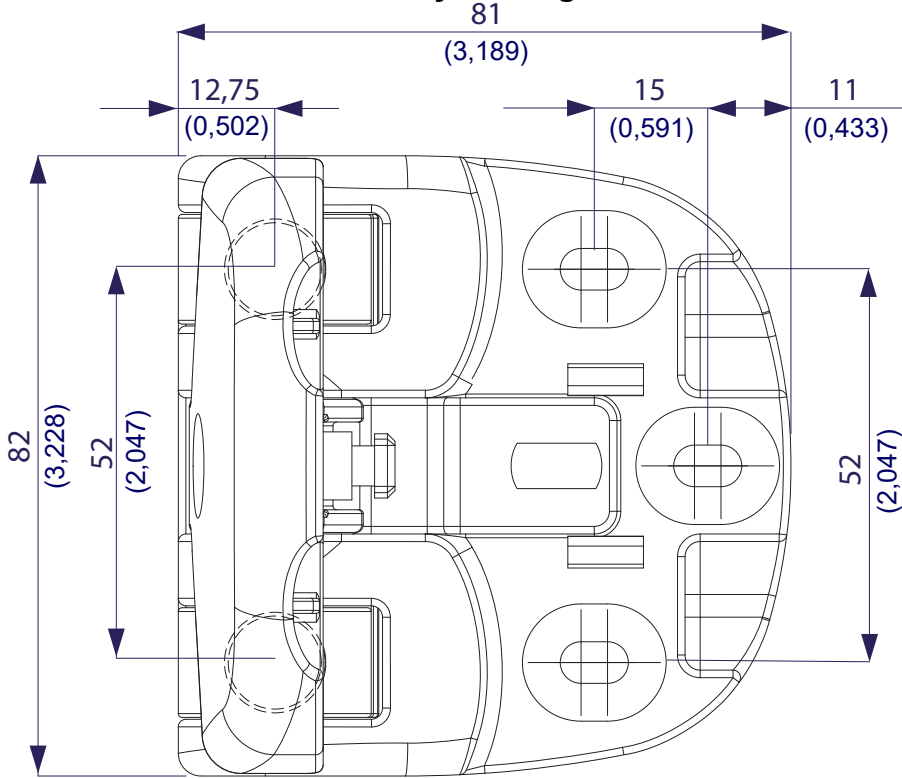
Box of 65 pcs.
Box of 65 pcs.
Box of 65 pcs.



**NYLON SPACER
FOR SYSTEM 55 and 35
NS 7-105**

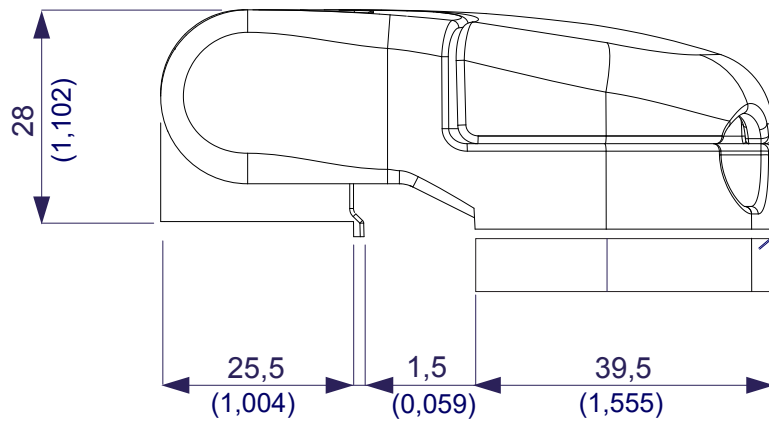


Nylon hinge double function

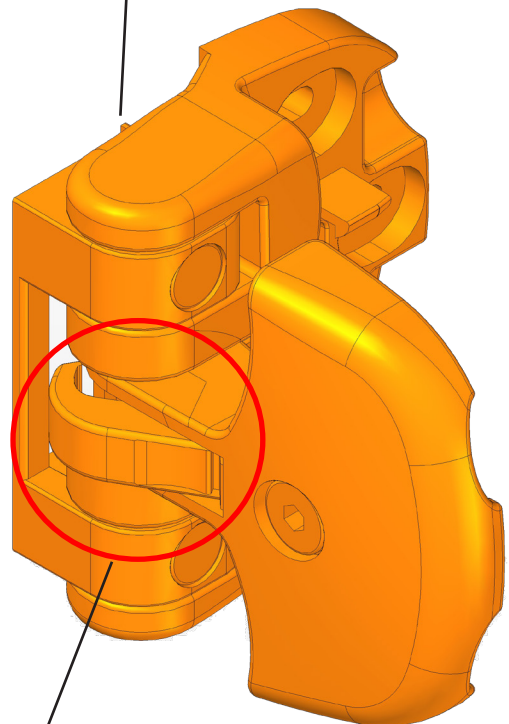


NYLON SPACER FOR SYSTEM 55 and 35 NS 7-80

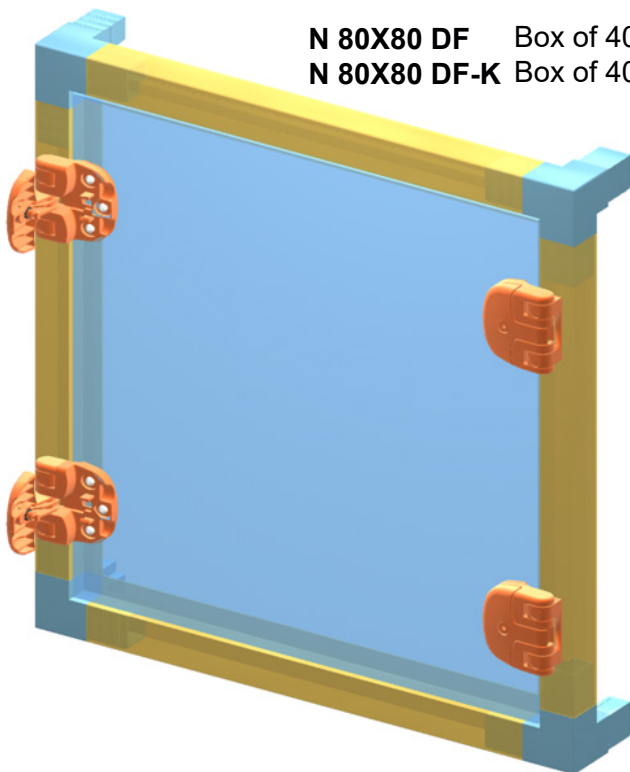
N 80X80 DF-S Box of 40 pcs.
N 80X80 DF-KS Box of 40 pcs.



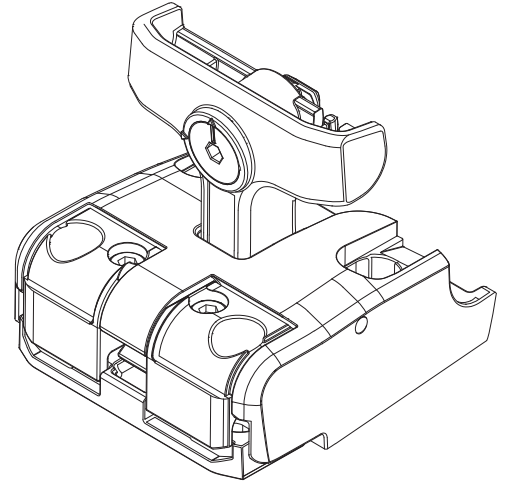
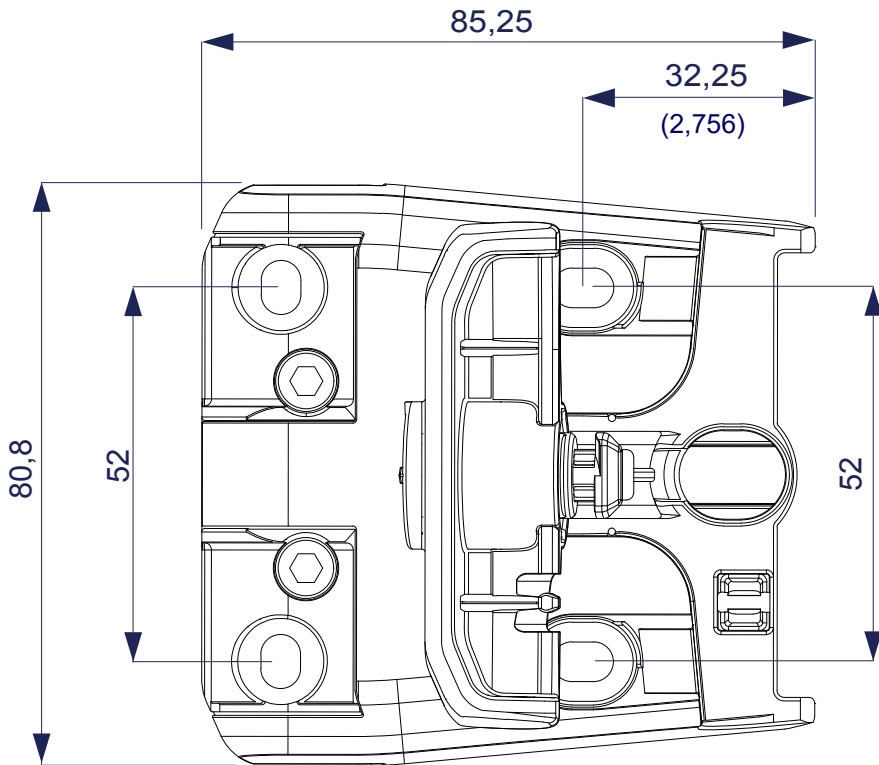
N 80X80 DF Box of 40 pcs.
N 80X80 DF-K Box of 40 pcs.



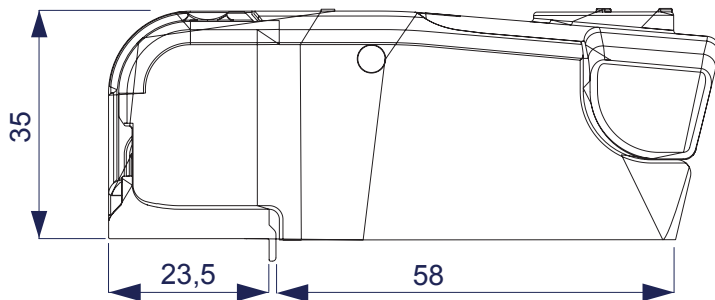
Nylon hinge with pressure button for doors in pressure



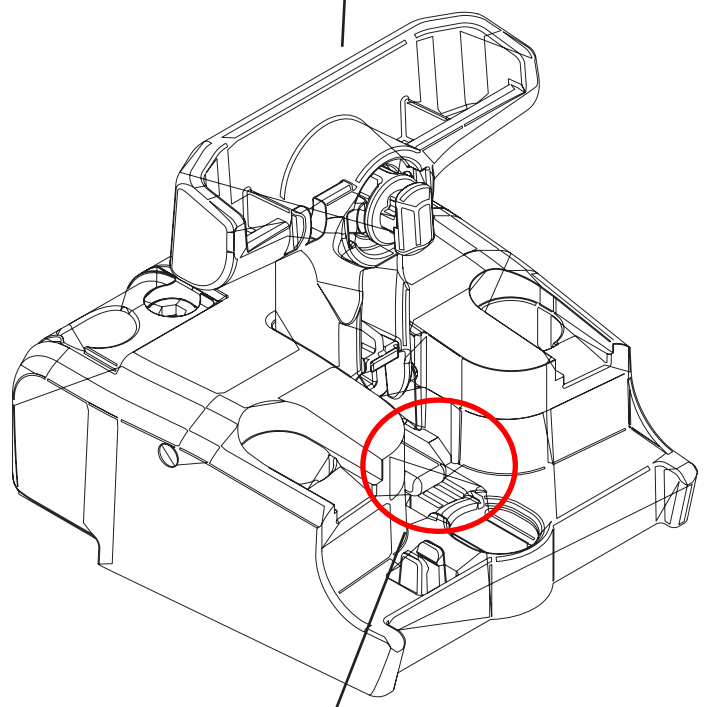
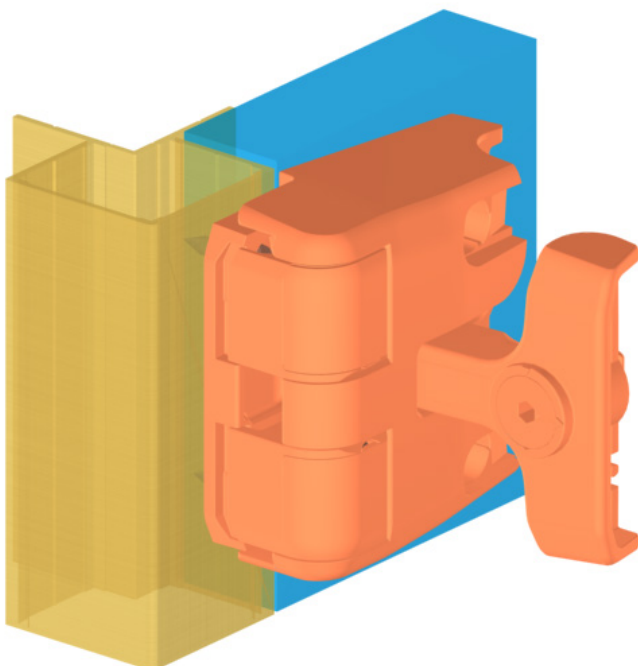
Nylon hinge double function



NZ 90X80 DF ADJ
Box of 40 pcs.

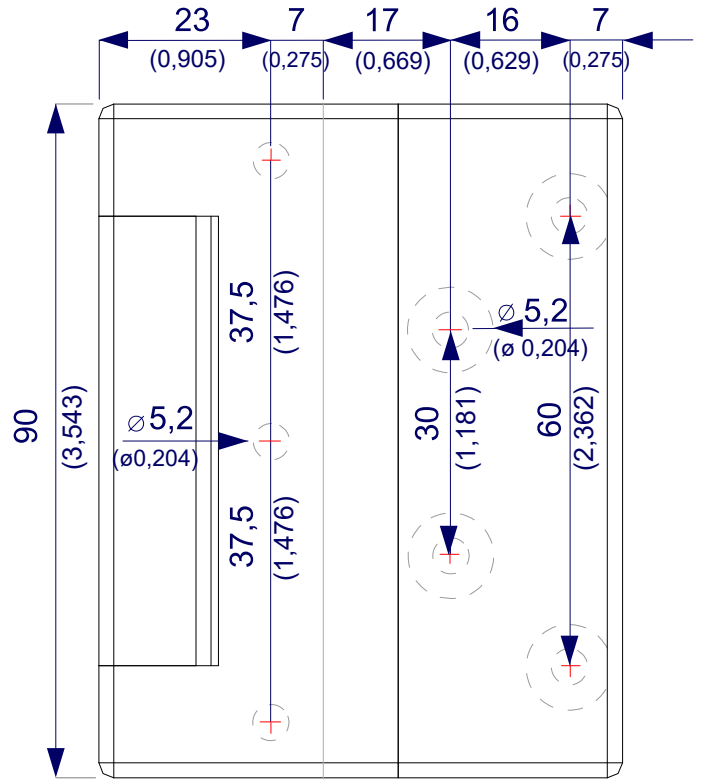
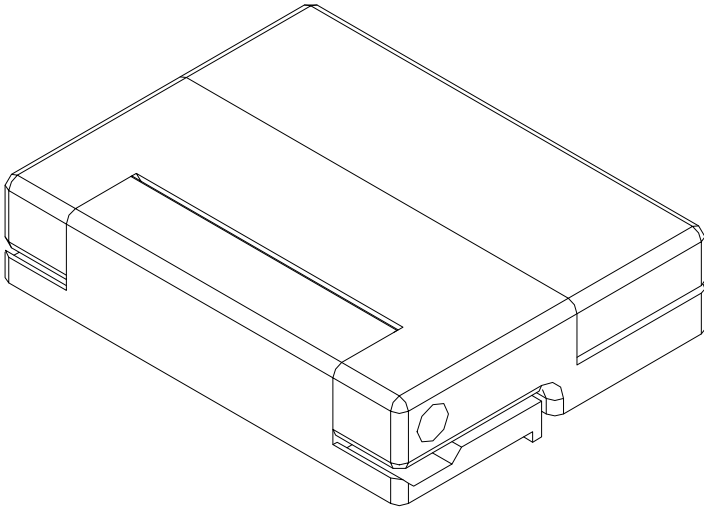


NZ 90X80 DF-S ADJ
Box of 40 pcs.

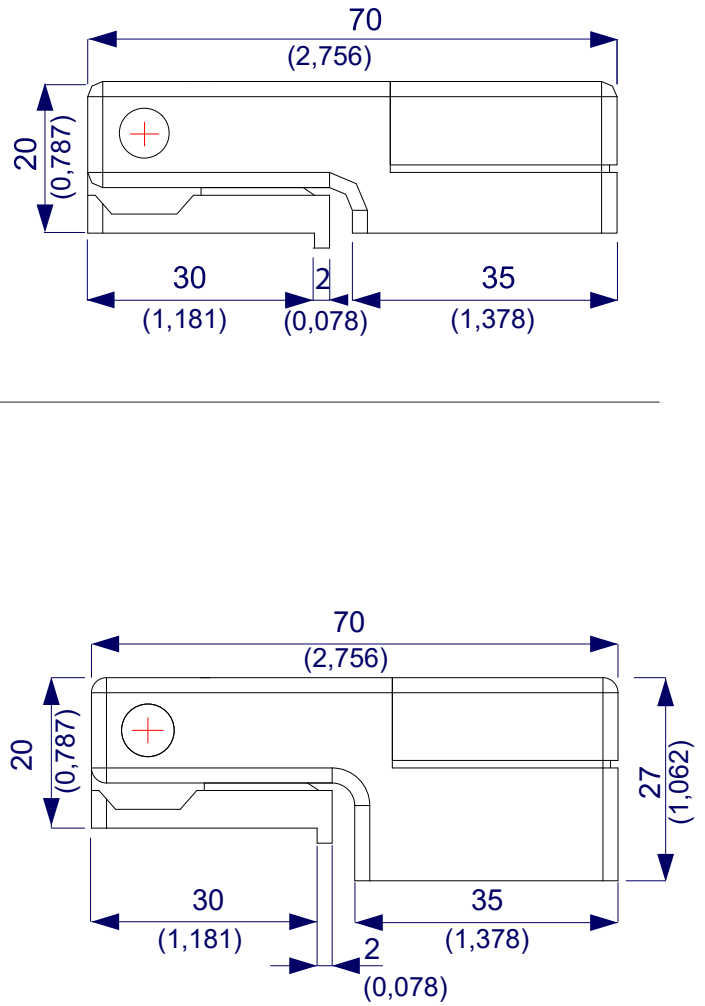
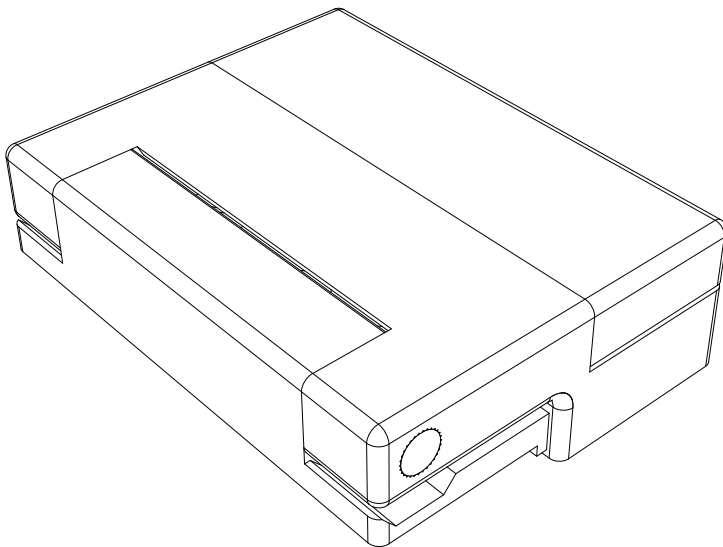


Nylon hinge with pressure button
for doors in pressure

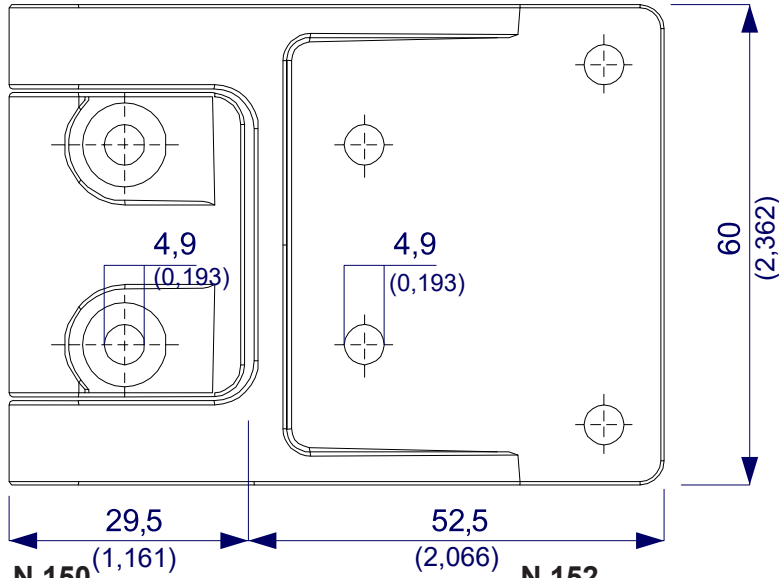
N 90x70
Nylon hinge
Box of 75 pcs.



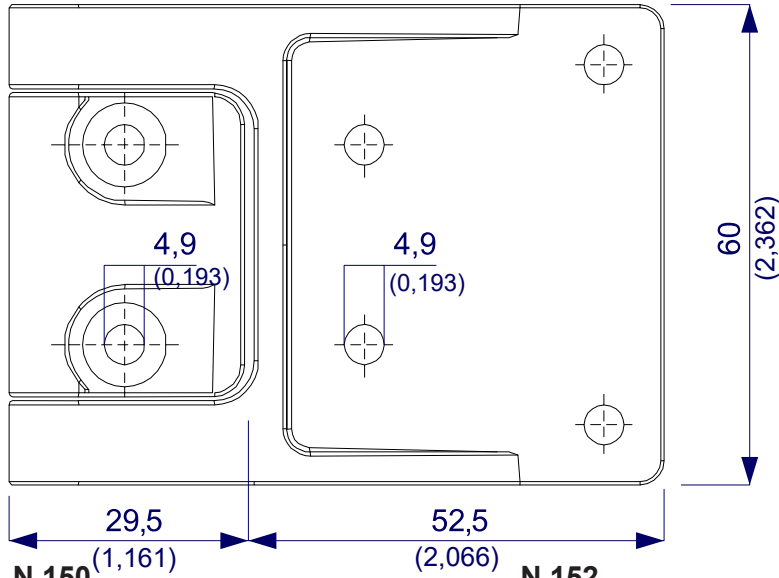
N 90x70 PS
Nylon hinge
Box of 70 pcs.



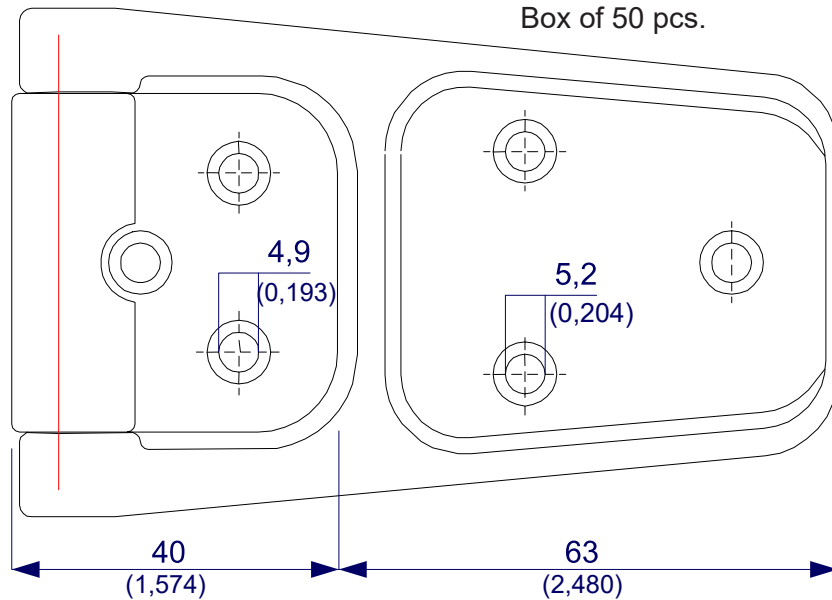
A 151 Aluminium hinge
Box of 100 pcs.



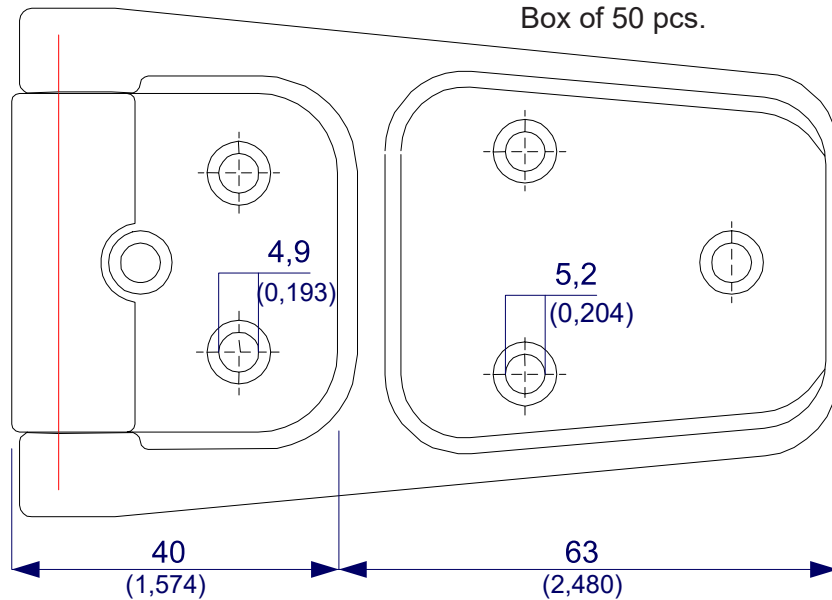
N 153 Nylon hinge
Box of 100 pcs.



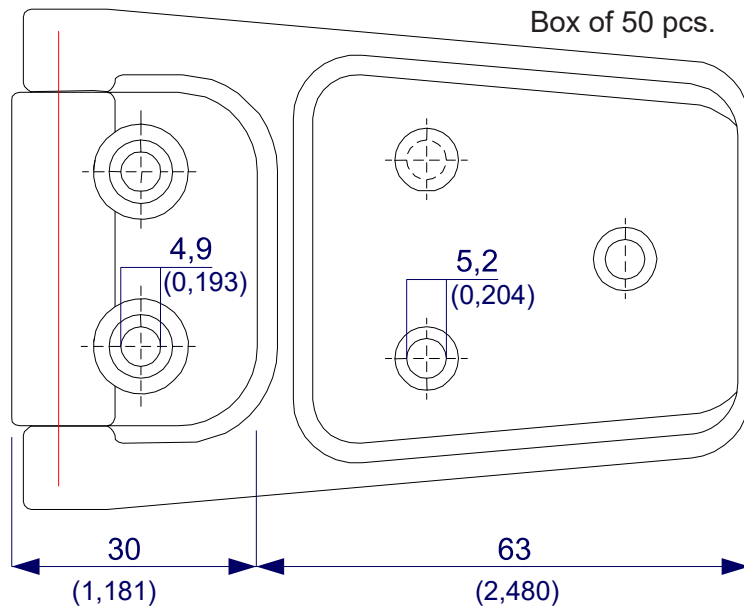
N 150
Nylon hinge with oval hole
Box of 50 pcs.



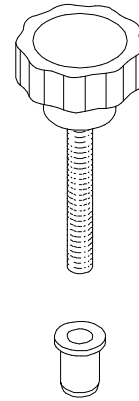
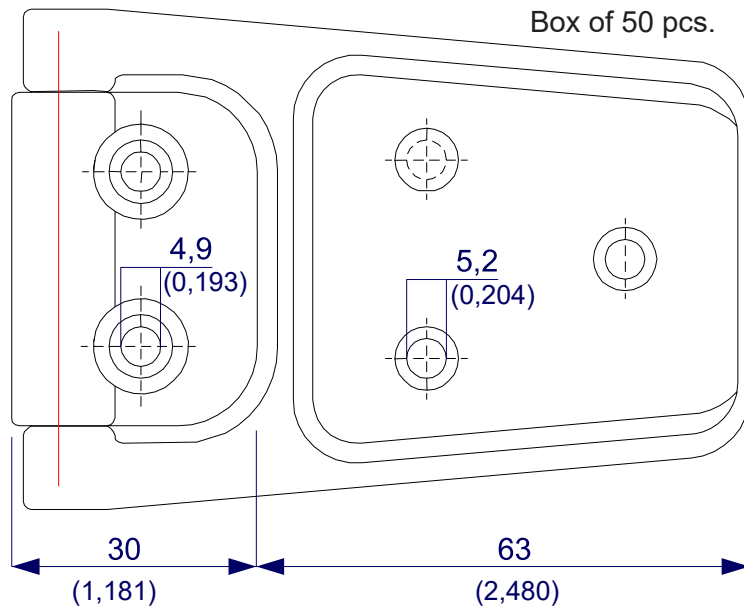
N 152
Nylon hinge with round hole
Box of 50 pcs.



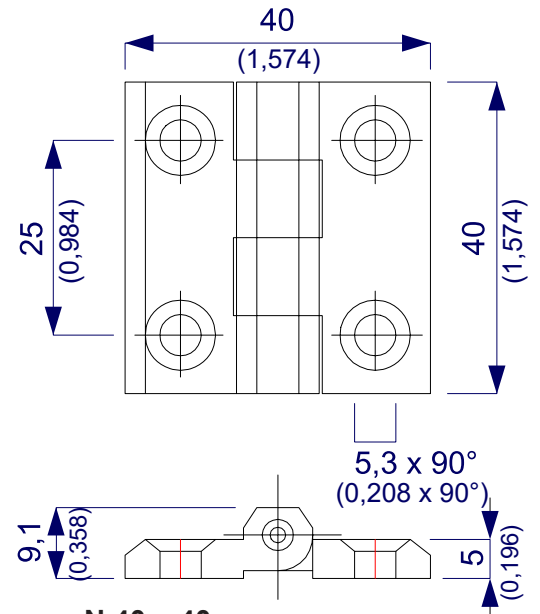
N 149
Nylon hinge with oval hole
Box of 50 pcs.



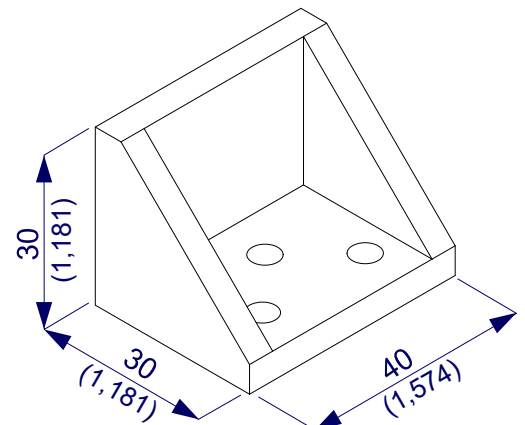
N 148
Nylon hinge with round hole
Box of 50 pcs.



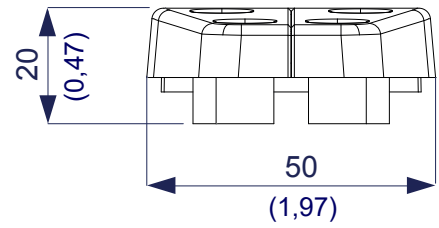
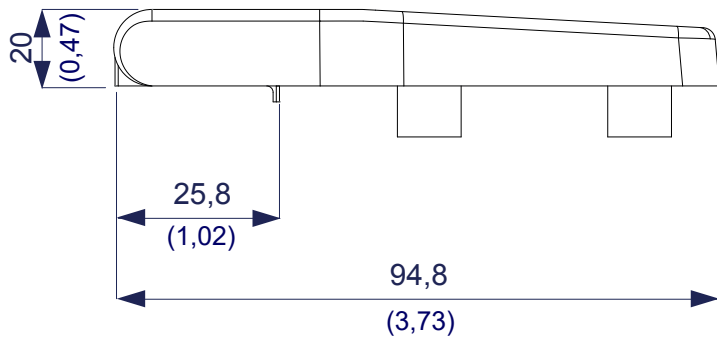
N 210
Fastening knob
with insert 6 MA.
Box of 200 pcs.



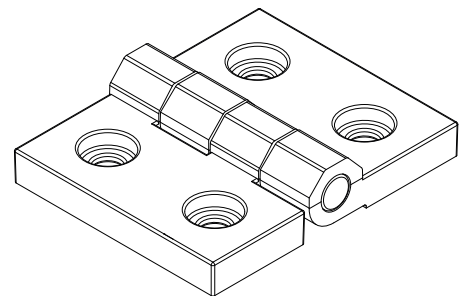
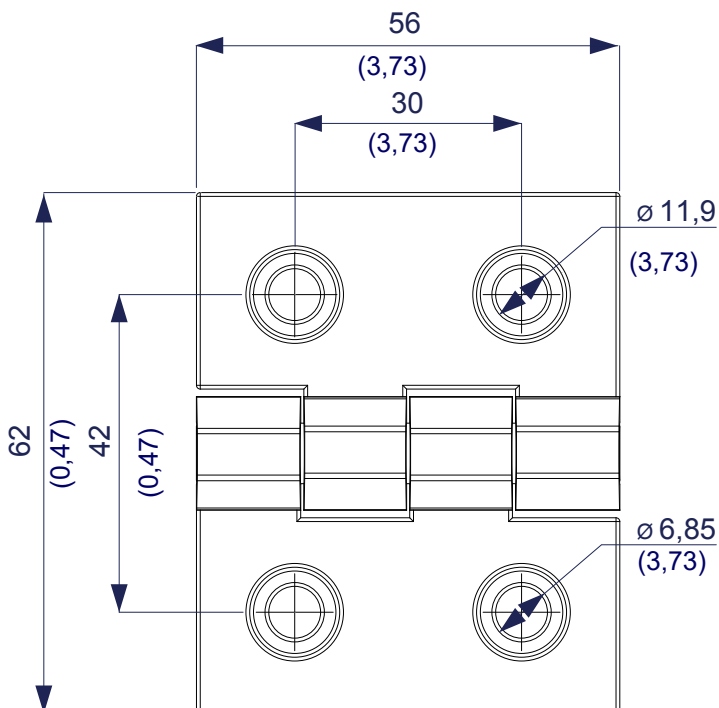
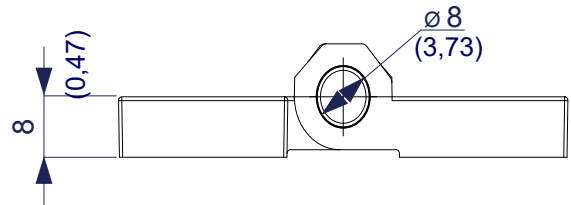
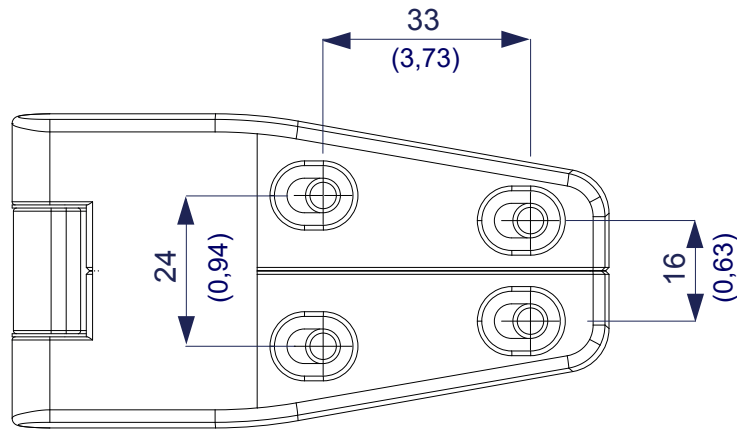
N 40 x 40
Nylon hinge
Box of 300 pcs.



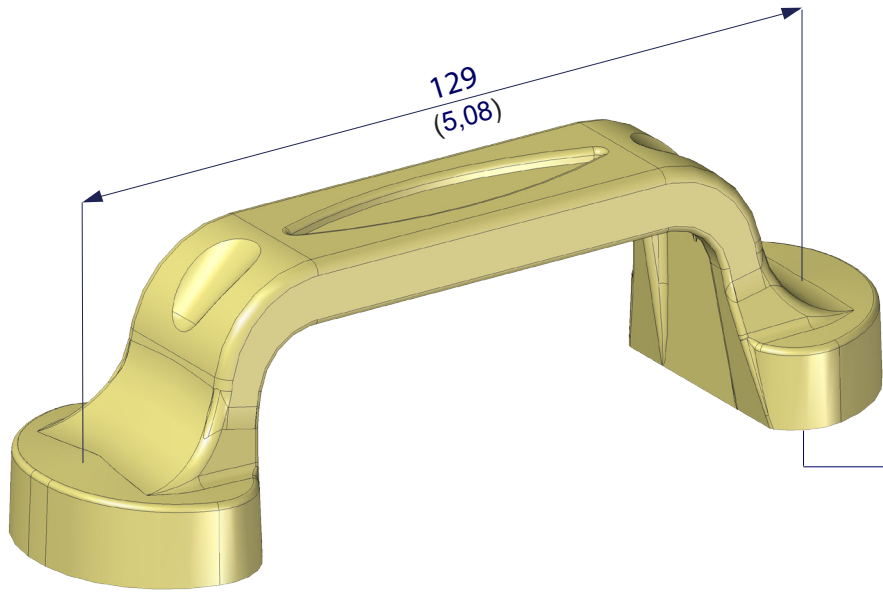
N 860
Connecting bracket
for machine section
Box of 100 pcs.



Z 35x50
Zamak adjustable hinge
Box of 140 pcs.

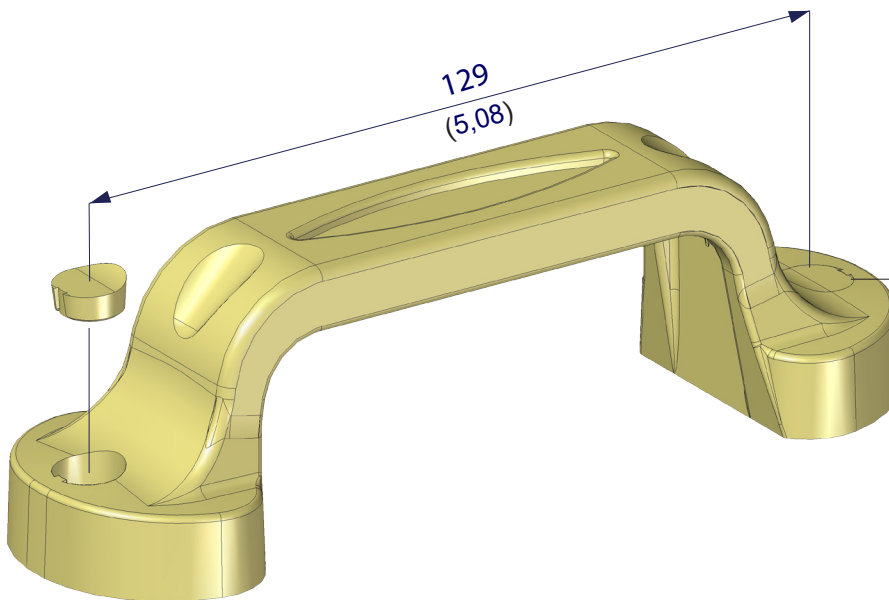


Z 56x62
Aluminium hinge
Box of 100 pcs.



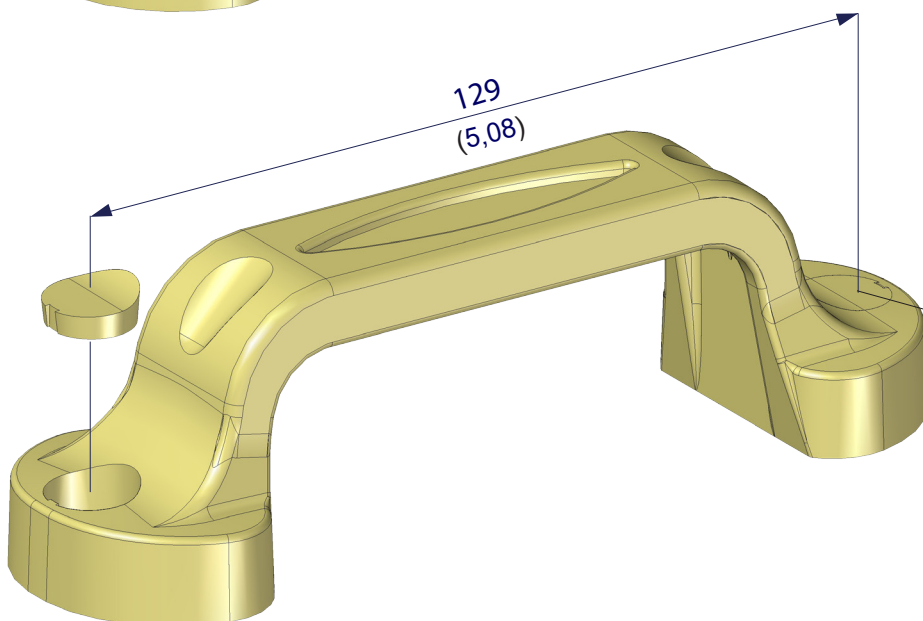
N 60-1
Box of 240 pcs.

Threaded hole
6 MA



N 65-1
Box of 240 pcs.

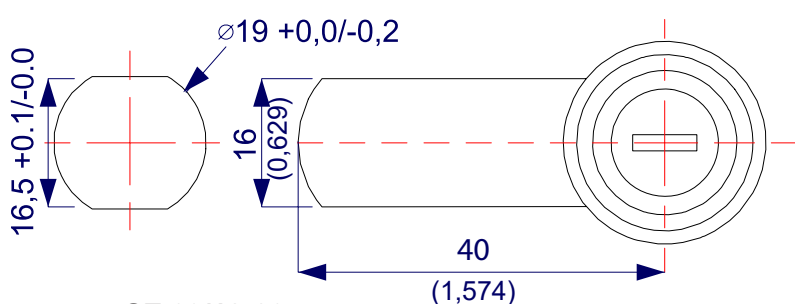
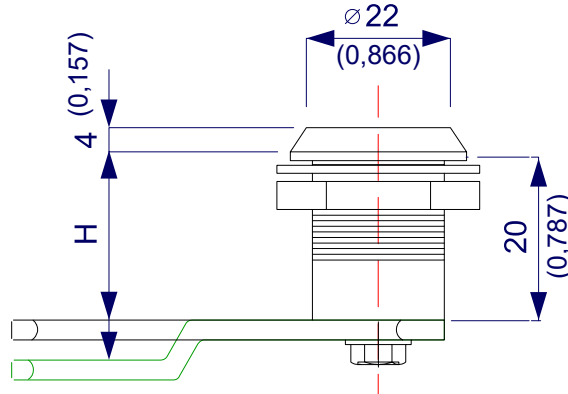
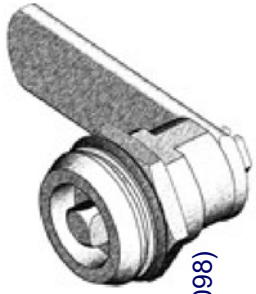
Hole \varnothing 6 mm.



N 62-1
Box of 240 pcs.

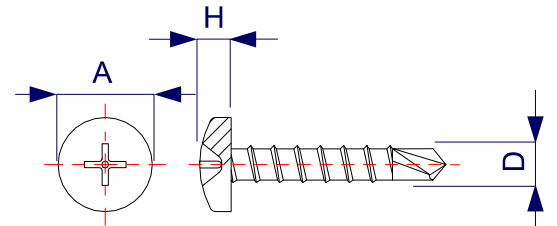
Hole \varnothing 9 mm.

METAL LOCK

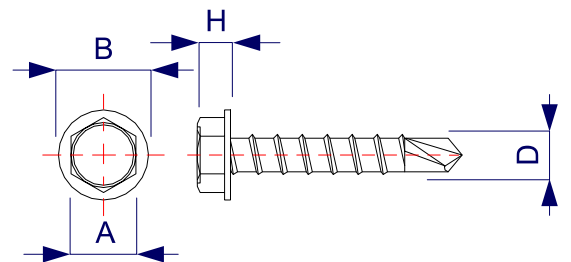


SZ 60/18-20
SZ 60/25
Box of 200 pcs.

SELF-DRILLING SCREWS

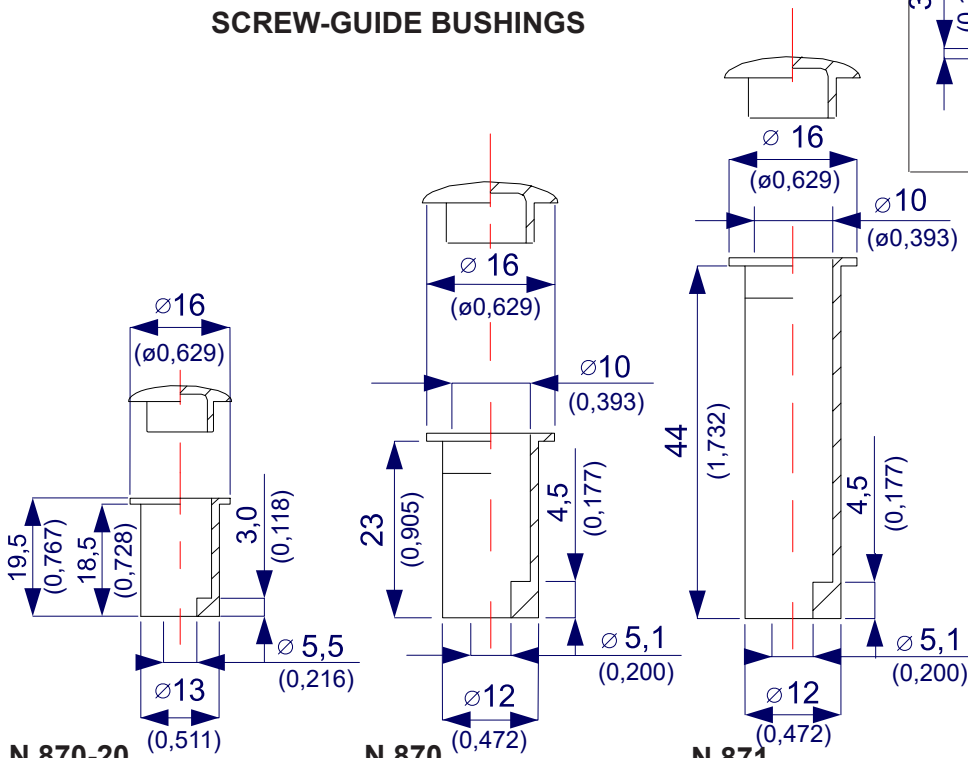


TC PH
Cross head (DIN 7504-M)
Self-drilling screws
of various sizes available
Box of 1.000 pcs.



TE FR
Hexagonal head (DIN 7504-K)
Self-drilling screws
of various sizes available
Box of 1.000 pcs.

SCREW-GUIDE BUSHINGS

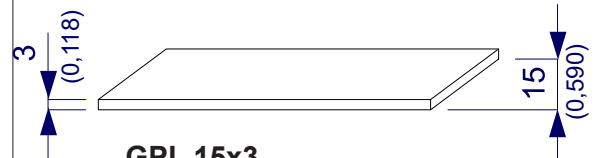


N 870-20
For panel
thickness 20 mm
Box of 2.000 pcs.

N 870
For panel
thickness 25 mm
Box of 2.000 pcs.

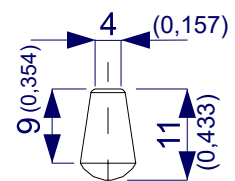
N 871
For panel thickness
45 and 50 mm
Box of 1.000 pcs.

GASKETS



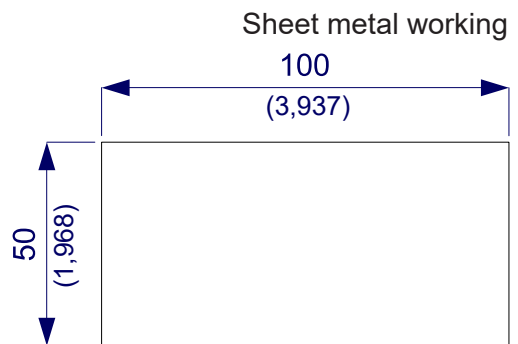
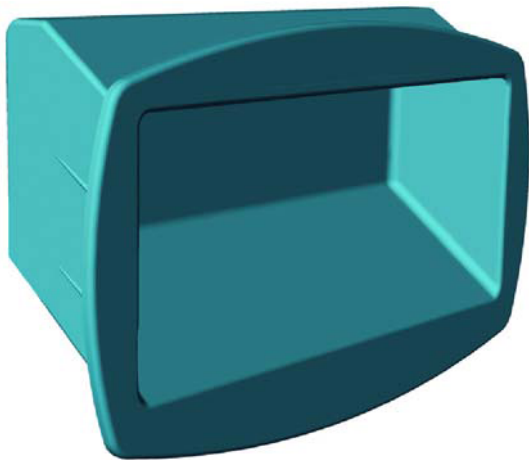
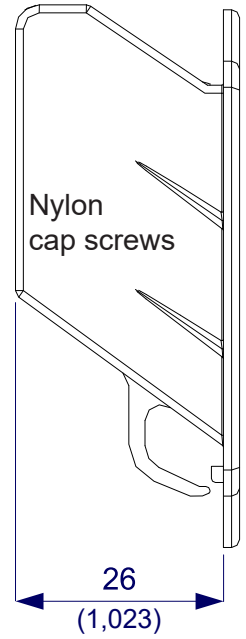
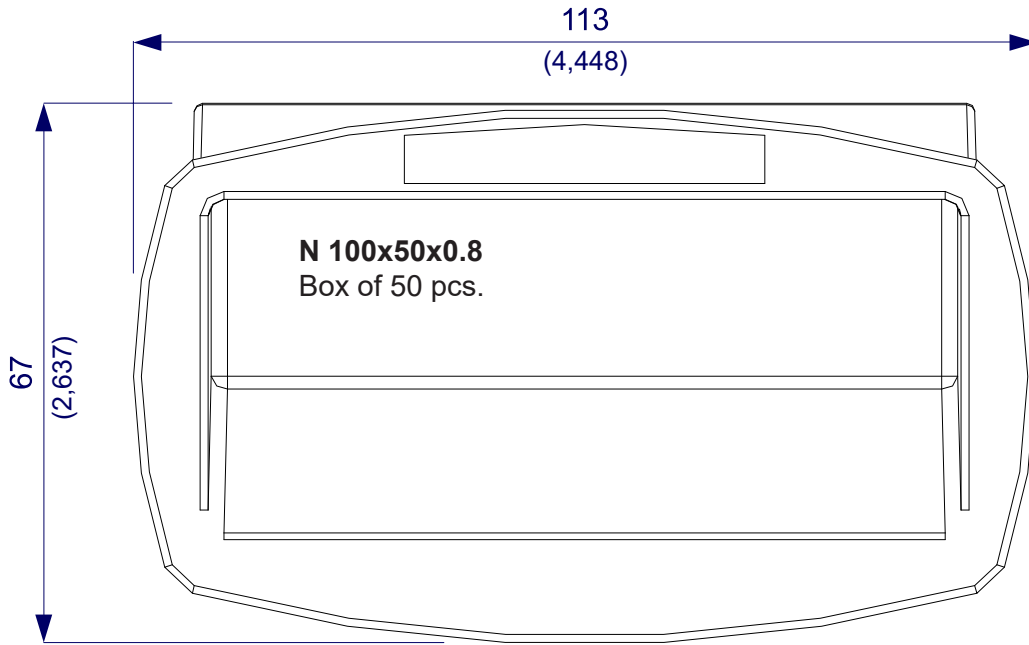
GPL 15x3
Polyethylene gasket
adhesive on one side
Box of 600 mt.
(different dimension
available on request)

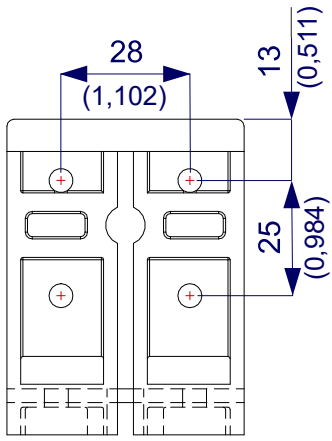
SCREW CAP COVERS



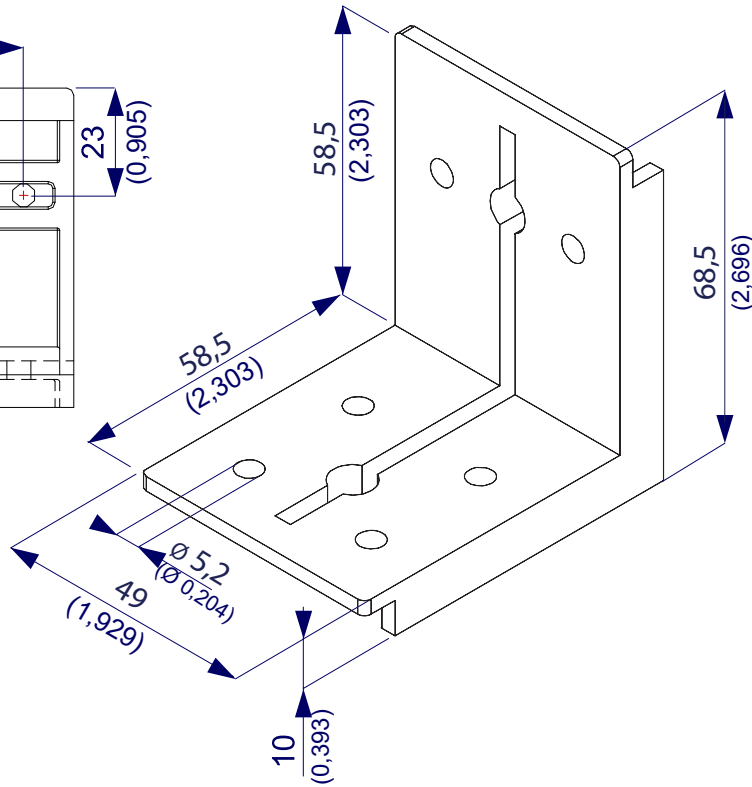
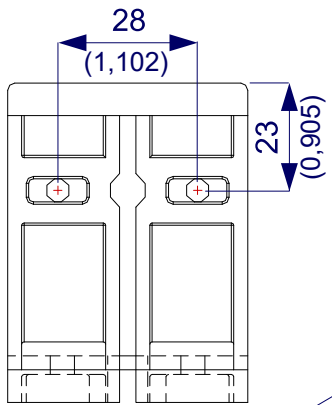
N 880
Plastic safety screw cover
Bag of 1.000 pcs.
(different dimension
available on request)

HANDLE IN LINE WITH THE PANEL

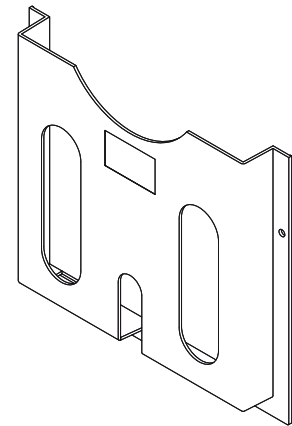
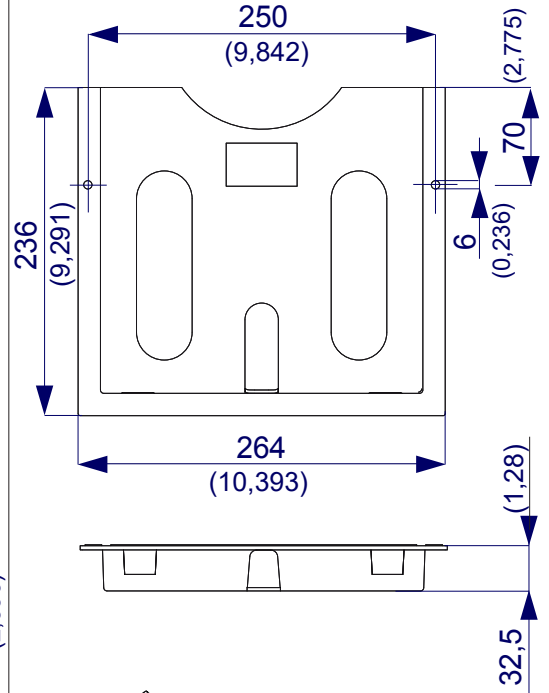




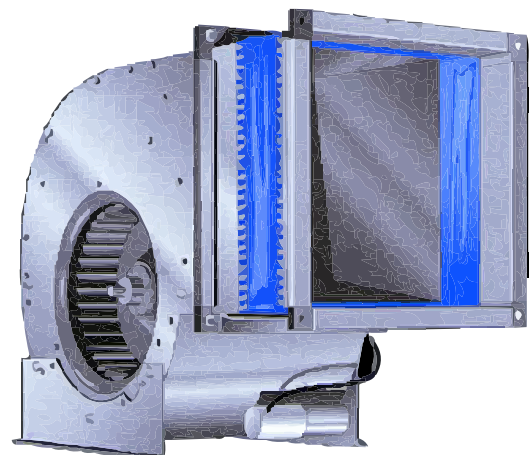
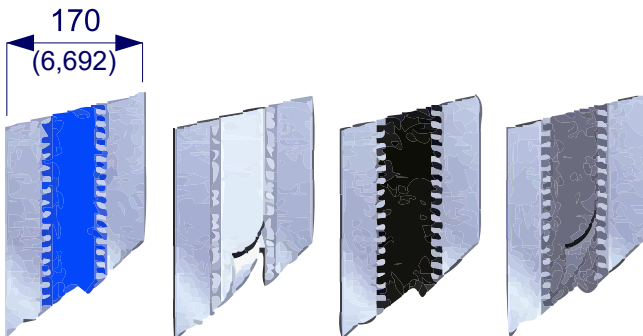
A 860
Aluminium connecting bracket
Box of 60 pcs.



NP001
Plastic document holder
Box of 25 pcs.



VB 170-0.50
Vibration damping
Box of 25 mt.



**Flat and adjustable porthole, nylon and plexiglass,
for panel thickness from 19 to 110 mm.**

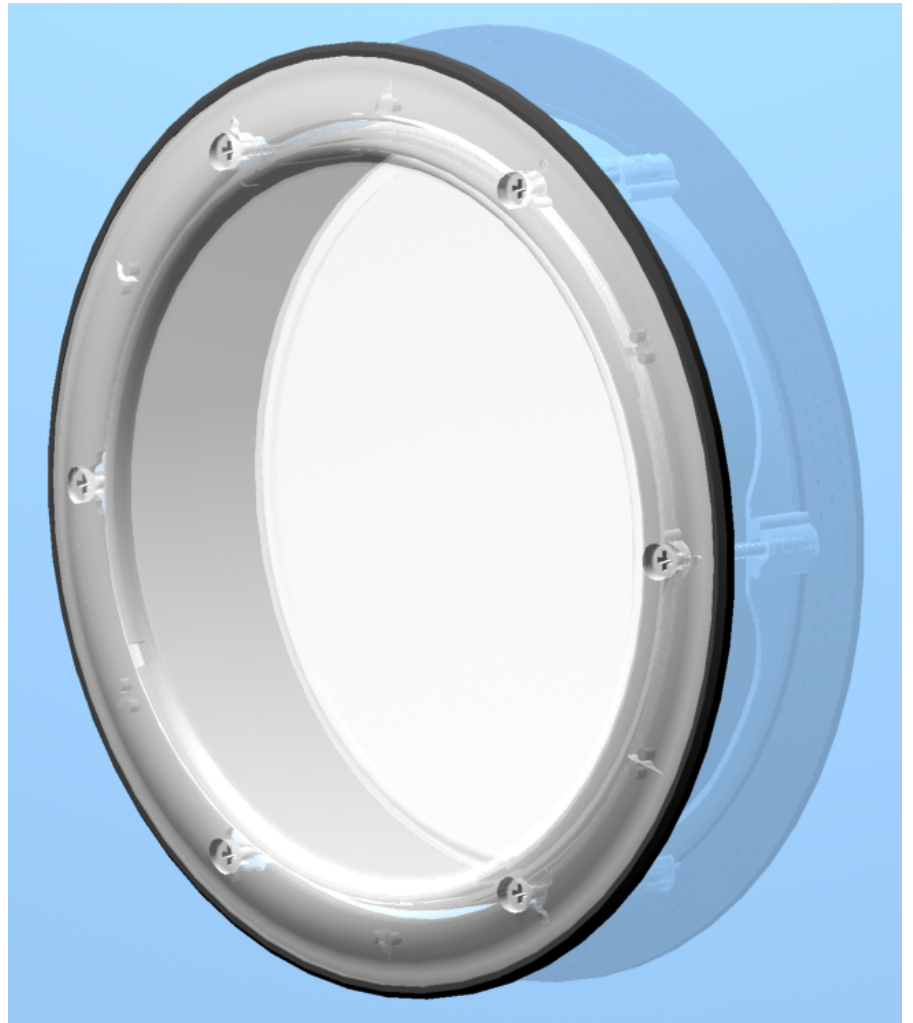
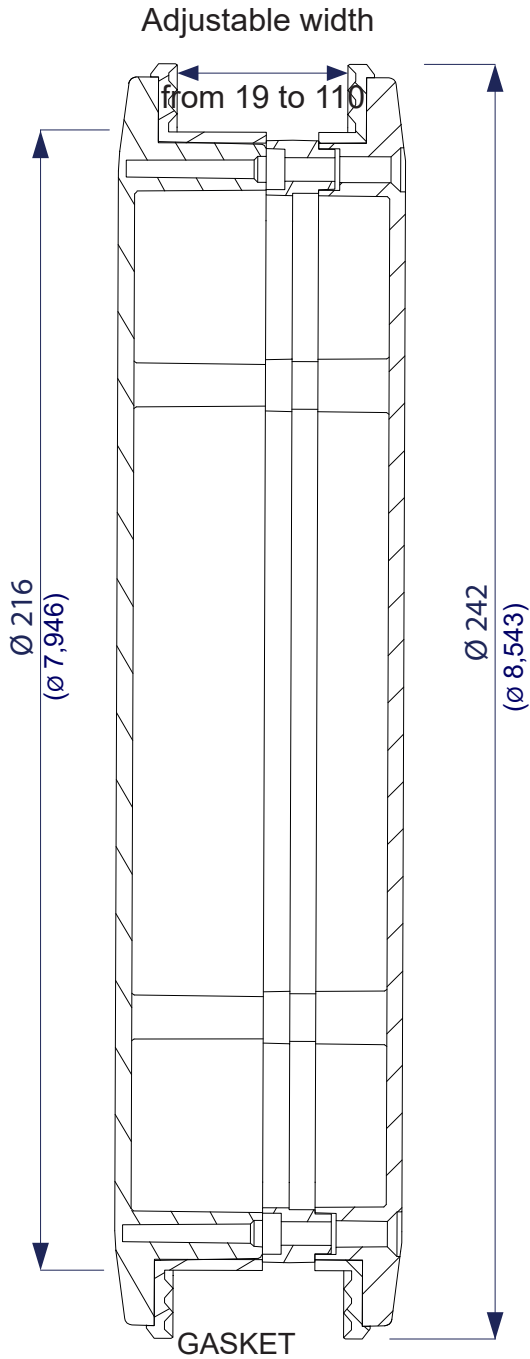
W 19-35
Box of 10 pcs.

W 70-90
Box of 4 pcs.

W 39-53
Box of 6 pcs.

W 95-110
Box of 3 pcs.

W 54-65
Box of 6 pcs.



**Flat and adjustable porthole, nylon and plexiglass,
for panel thickness from 19 to 110 mm.**

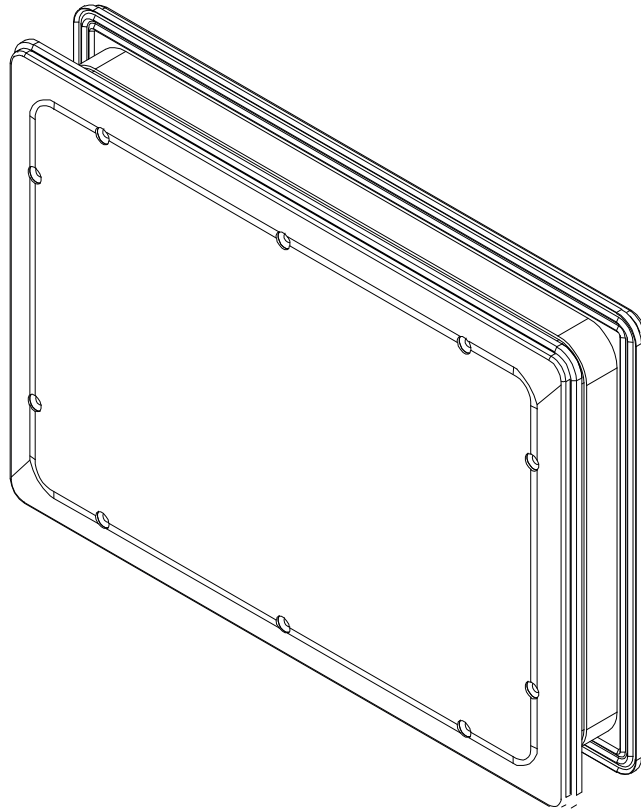
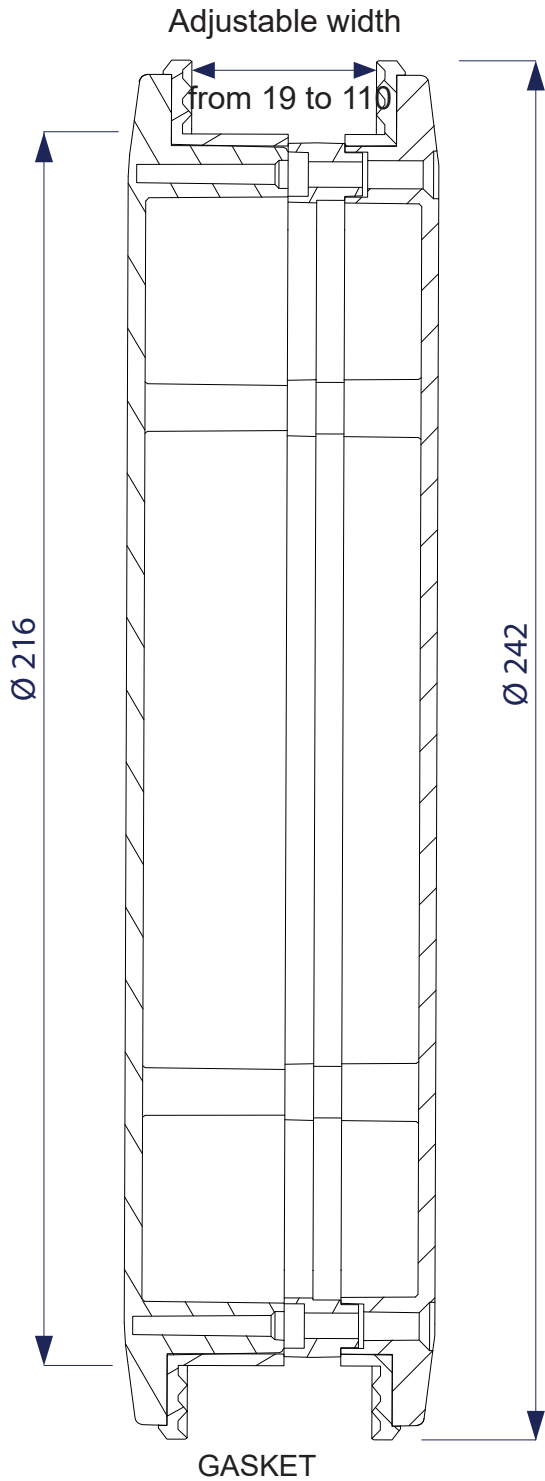
WR 25
Box of 10 pcs.

WR 60
Box of 4 pcs.

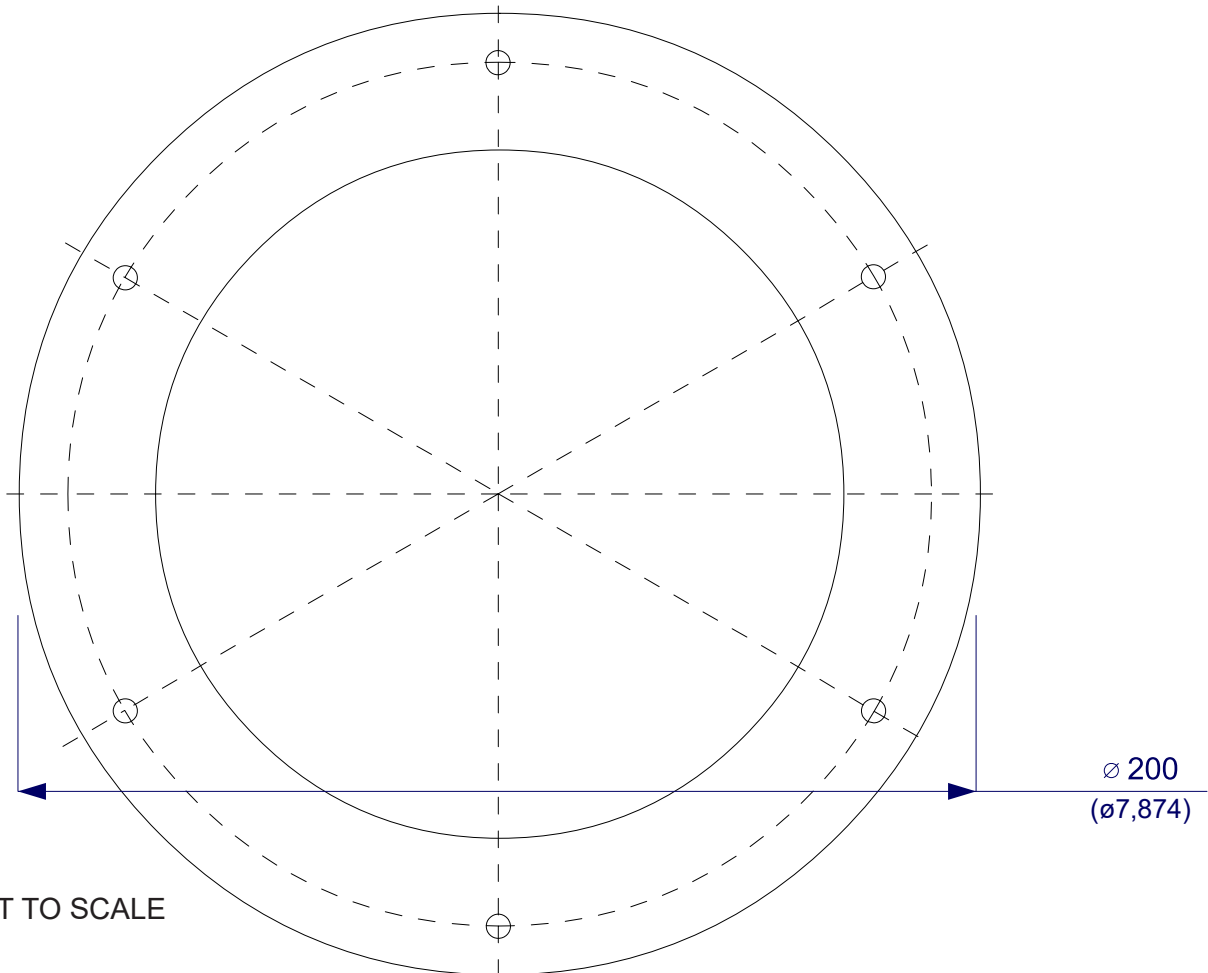
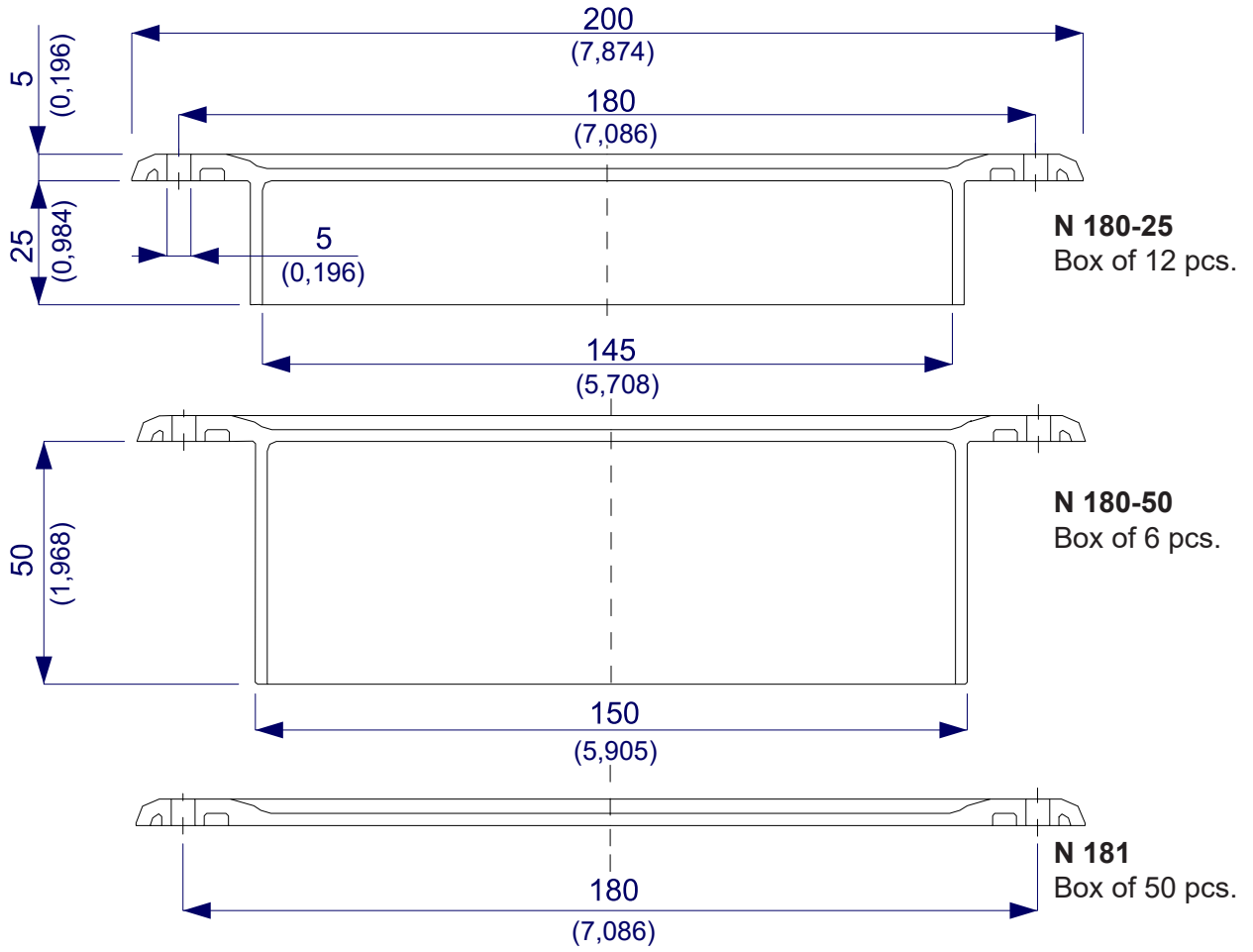
WR 45
Box of 6 pcs.

Box of 3 pcs.

WR 50
Box of 6 pcs.

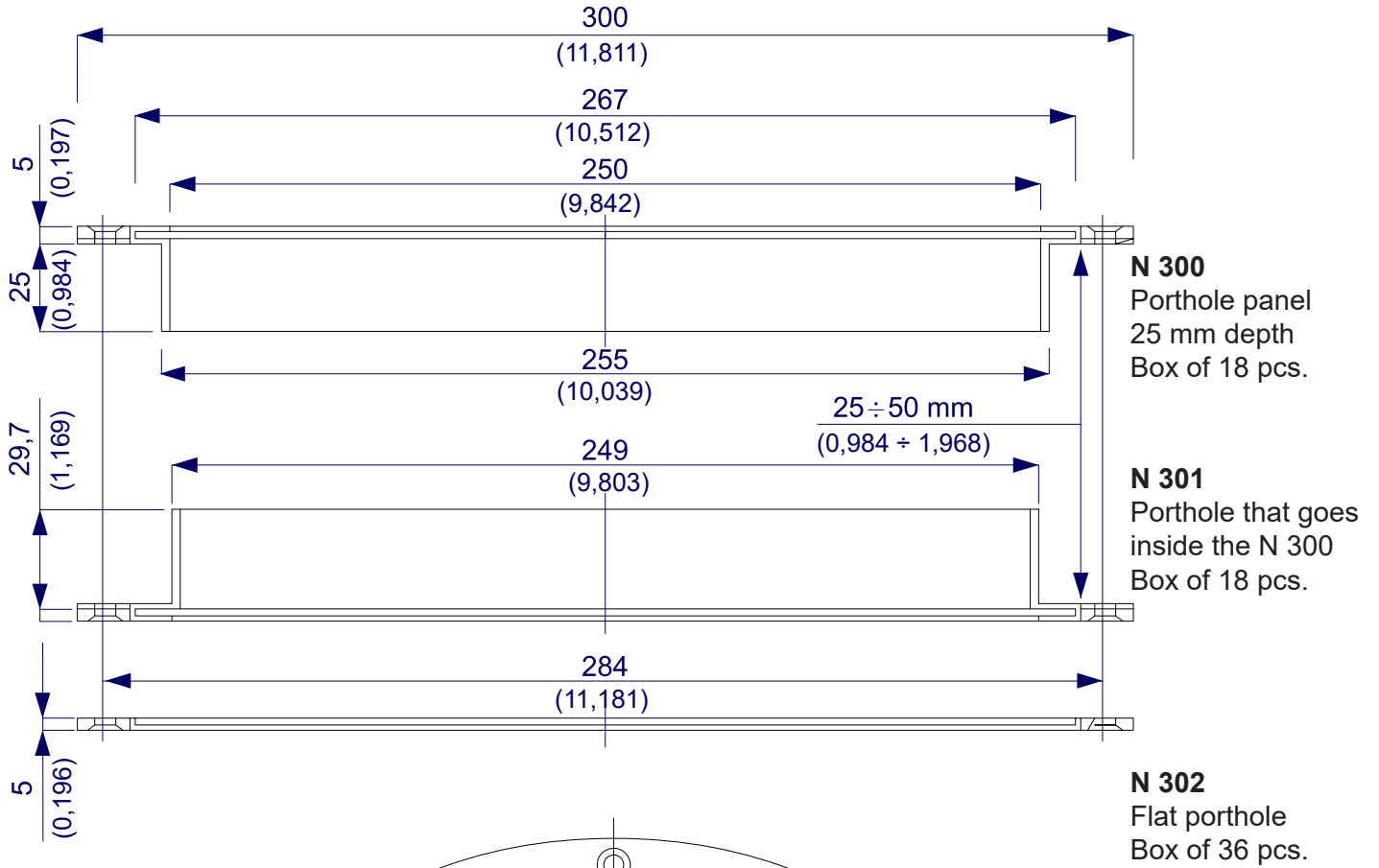


Plexiglass porthole with gasket

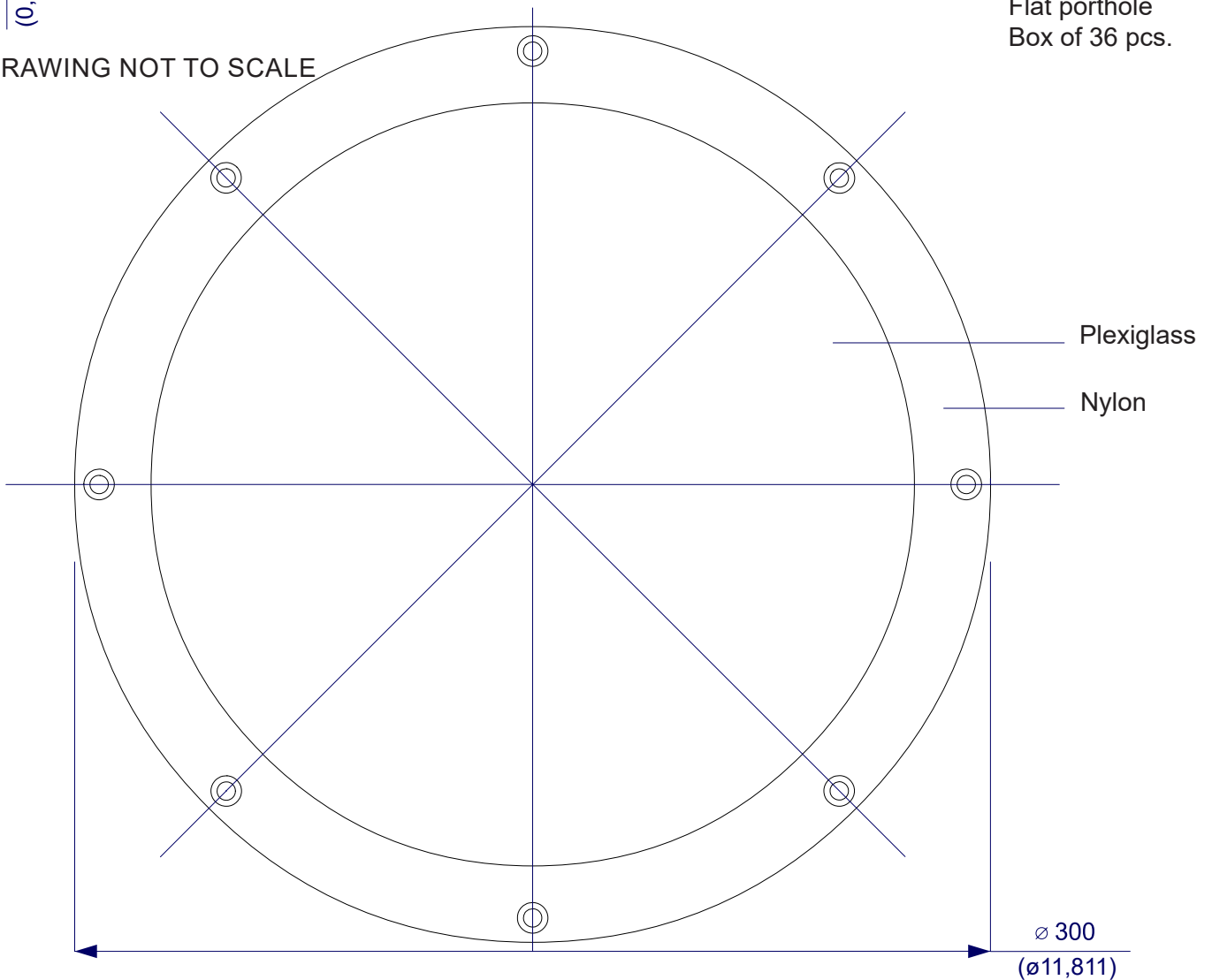


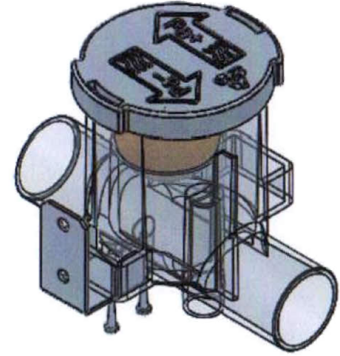
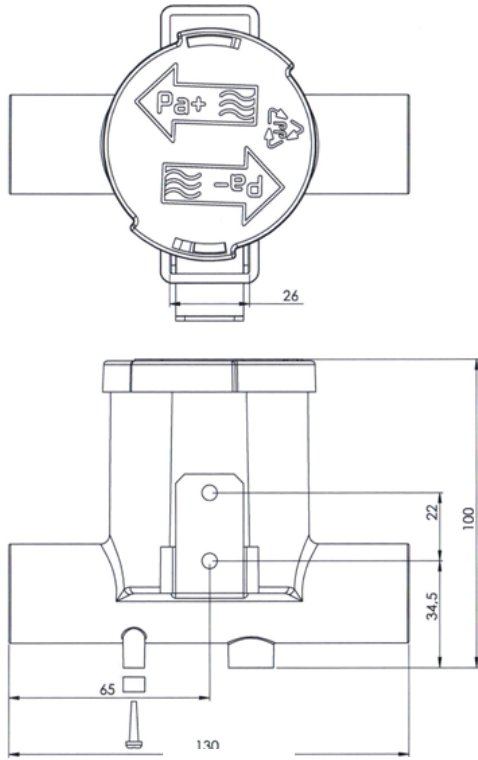
DRAWING NOT TO SCALE

**Flat and adjustable porthole, nylon and plexiglass,
for panel thickness from 25 to 50 mm**

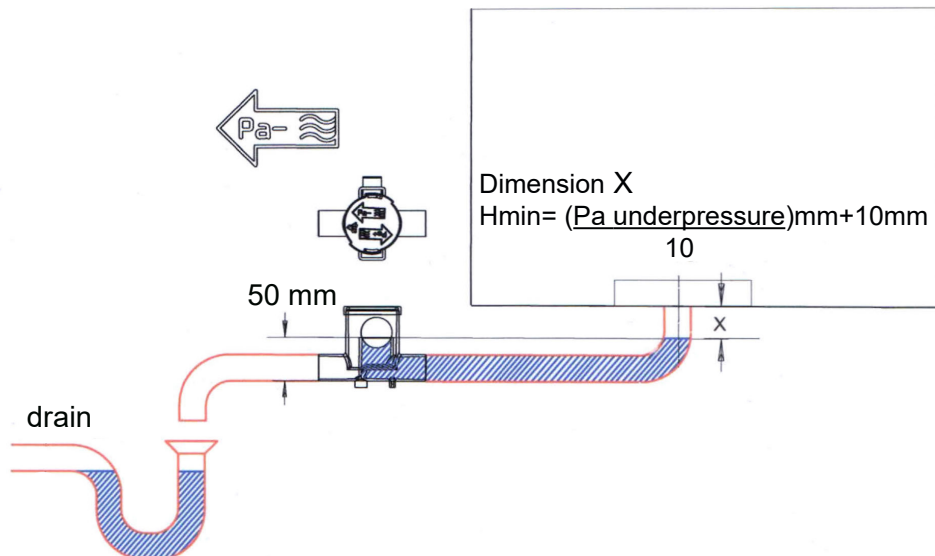
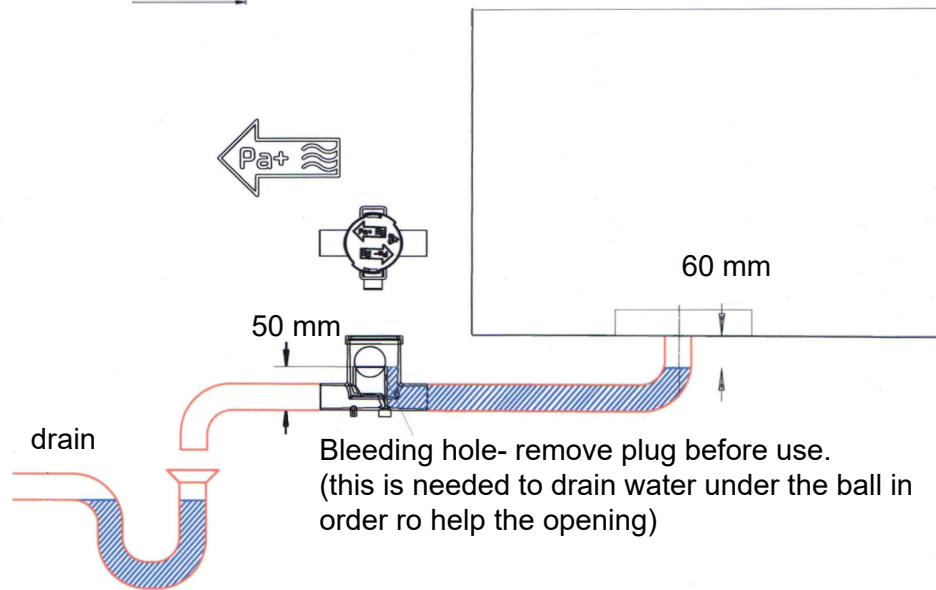


DRAWING NOT TO SCALE



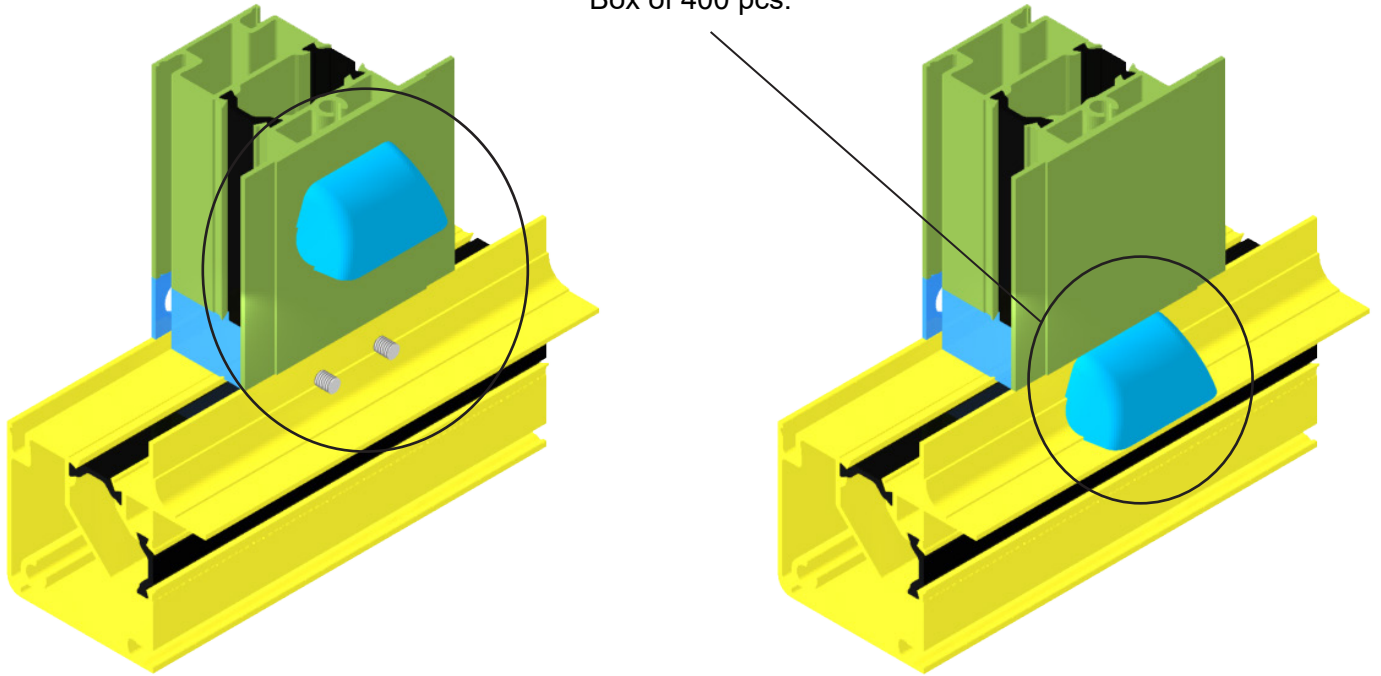


PP001
Box of 30 pcs.



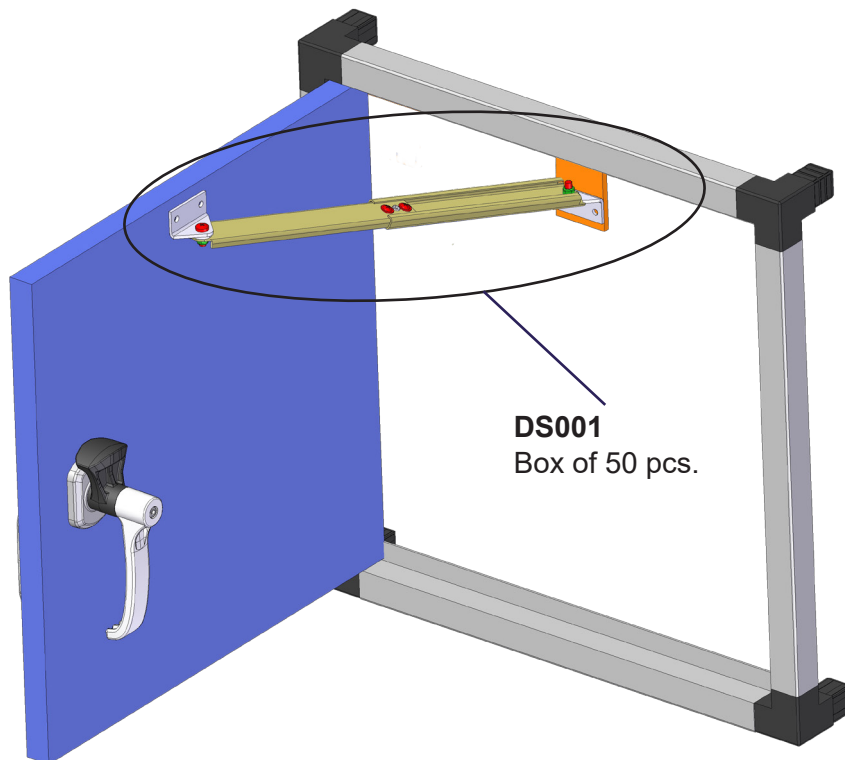
NYLON HIDING SCREW COVER

NC001
Box of 400 pcs.

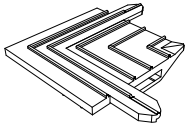


TELESCOPIC DOOR BLOCK

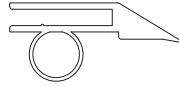
DS001
Box of 50 pcs.



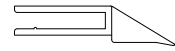
DRAWINGS NOT TO SCALE



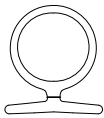
GS-20
Gasket EPDM
Box of 1.000 pcs.



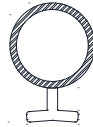
G002
Gasket PVC
Bundles of 100 mt.



G003 F 1
Gasket PVC
Bundle of 100 mt.



G001
Gasket EPDM
Box of 500 mt.



G0012
Gasket EPDM
Box of 500 mt.



G 59
Gasket PVC
Box of 225 mt.



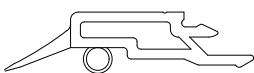
G65
Gasket PVC
Box of 400 mt.



G0010
Gasket EPDM
Box of 700 mt.



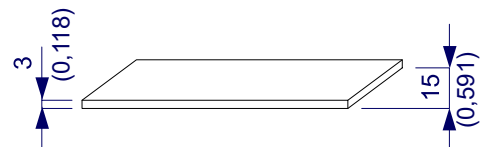
G0013
Gasket
Box of 1000 mt.



PVC-PS 15x6
Coextruded Gasket PVC
Bundle of 54 mt.



PVC PS C
Coextruded Gasket PVC
Bundle of 120 mt.



GPL 15x3
Gasket adhesive Neoprene
Box of 600 mt.
(different dimension available on request)

Serrande in alluminio di regolazione ed espulsione aria.

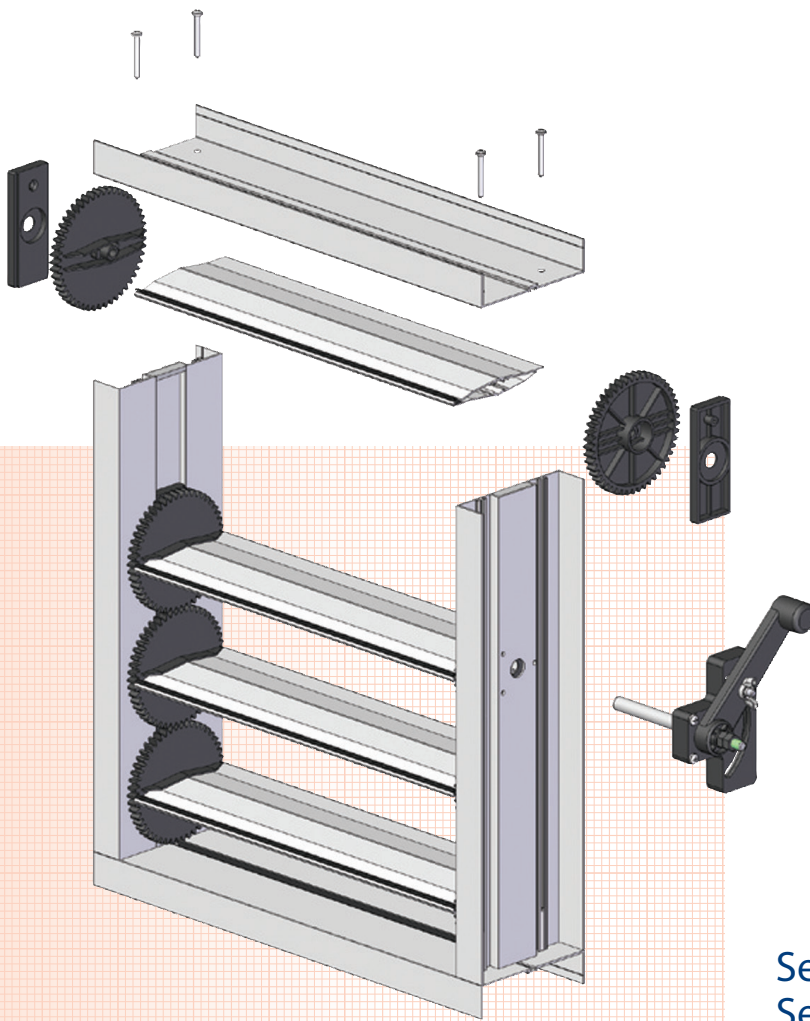
Aluminium overpressure and airflow regulation dampers.

Volets an alu pour la régulation et l'expulsion de l'air.

Compuertas de sobrepresión y de regulación de aire en aluminio.

Aluminiumdämpfer.

铝闸。



Sezione
Section
Section
Sección
Teil
第07号

07

In this section we present the over-pressure damper, the single and double pitch damper 50, 100 and 150 mm, the metal damper and that for heat recovery units.

The over-pressure damper has a resistant and sturdy aluminum frame assembled with die-cast aluminum corners, while the nylon spacers determine the positioning of the fins that are housed without having to drill the structure. The shape of the blades constitutes a barrier that leaves the internal and external part hermetically separated (seal G003F1) and the water therefore remains only always outside.

The 100 mm and 50 mm pitch dampers are entirely composed of aluminum profiles and nylon accessories loaded with fiberglass. The predominant feature is the assembly which is extremely simple and fast. The blades of the shutters are controlled by means of hidden nylon gears which are spaced from each other by means of nylon shoes; therefore the damper uprights must not be drilled to house the blade pins. These shutters are light because they are entirely built in aluminum, and at the same time robust, as the frame and the blades have been designed to build even large shutters. The double shutters can be equipped with intermediate profiles, which give greater rigidity to the structure in case of considerable dimensions. They are also used when working with two different air flows; in fact, the damper can also be mounted with a closed side and an open side. This damper can be controlled by hand using an aluminum, nylon or galvanized iron handle or with all types of motors using the aluminum pin. The tightness of the damper is brilliantly guaranteed by the seals mounted on the blades and by those mounted on the frame. Both the pitch 100 and pitch 50 versions are available in CLASS 2 and CLASS 3 versions (EN UNI 1751: 2013).

The 100 mm pitch metal shutter is totally built with metallic materials such as aluminum, brass and steel.

The assembly, very simple, involves the use of die-cast aluminum gears connected through special brass bushings (B001 and B002) to the uprights of the structure and coupled with the blades specially designed to ensure a hermetic closure of the damper.

The upright profiles (vertical) are supplied already pre-drilled with a regular center distance of 100 mm, in this way the assembly is faster as the profile will be assembled without further processing by the customer.

These shutters have been designed for use in environments where high resistance to extreme situations and temperatures is required and where antibacterial properties are required such as in the hospital and pharmaceutical field.

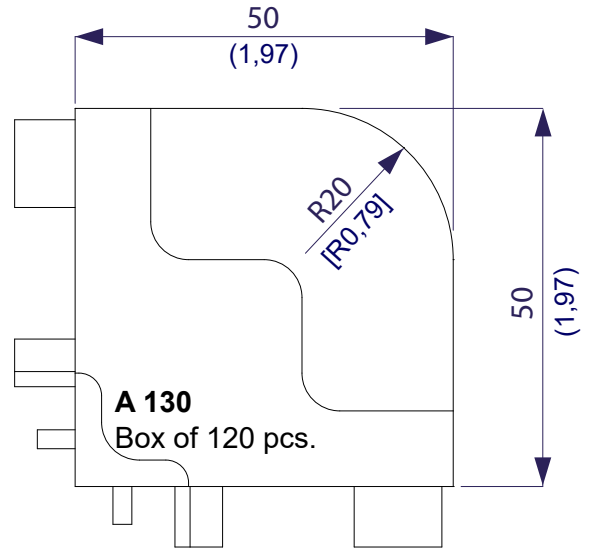
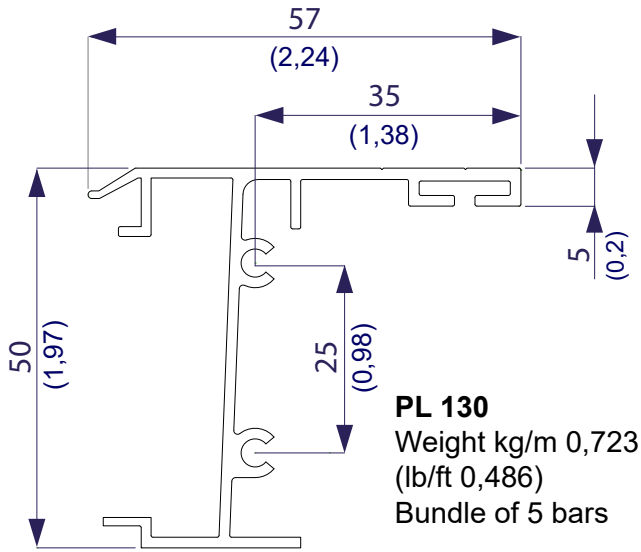
The actuation takes place via a front motor door control or a lateral pin connected to a motor door plate.

The damper for heat recovery is equipped with rotation gears hidden inside the frame and has the characteristic of being able to be operated by means of the traditional side pin or by means of a special central motor control (A841).

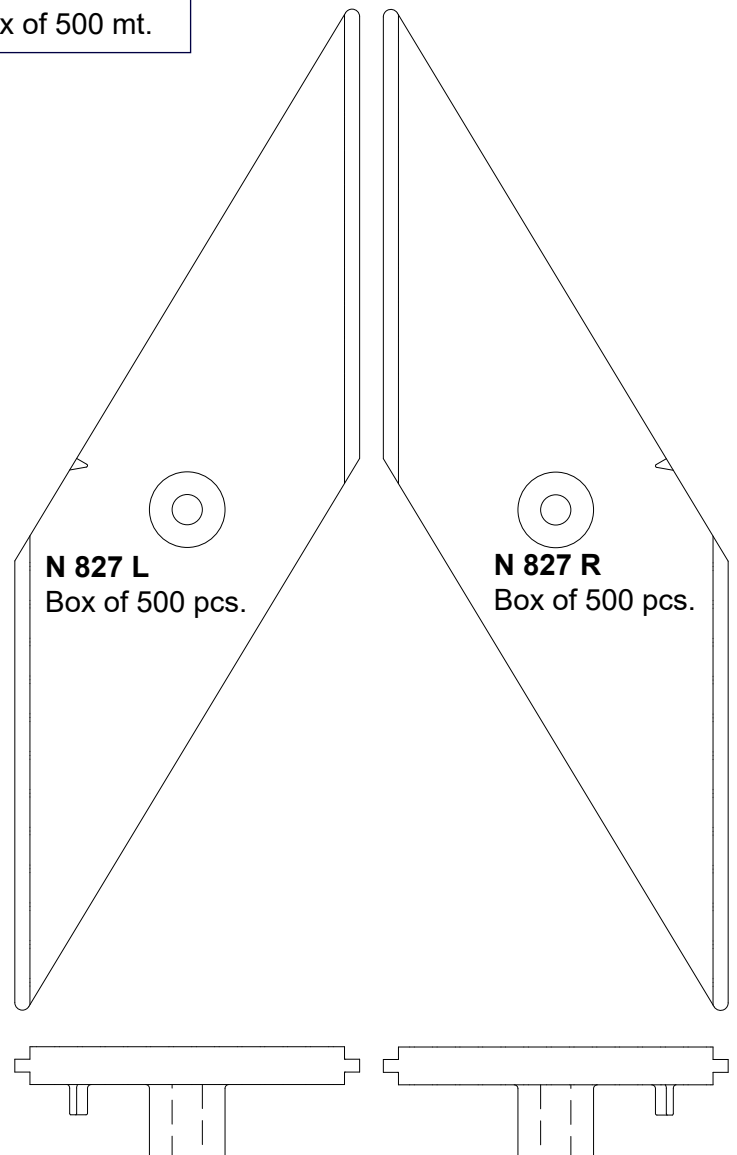
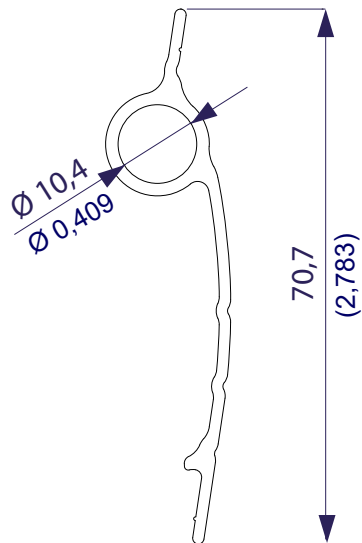
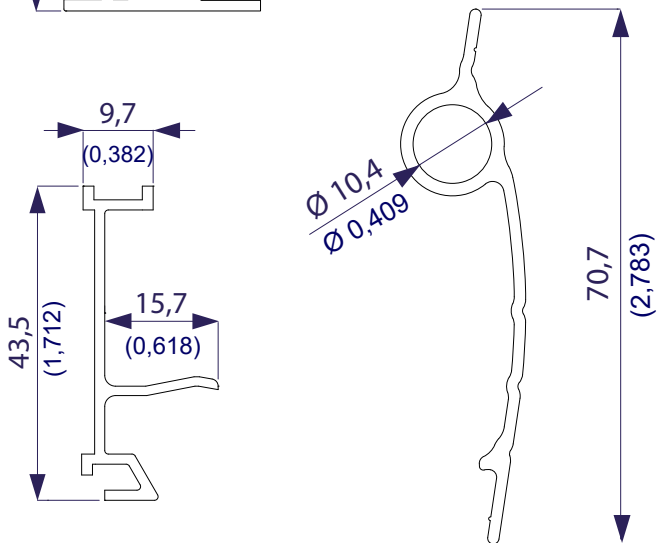
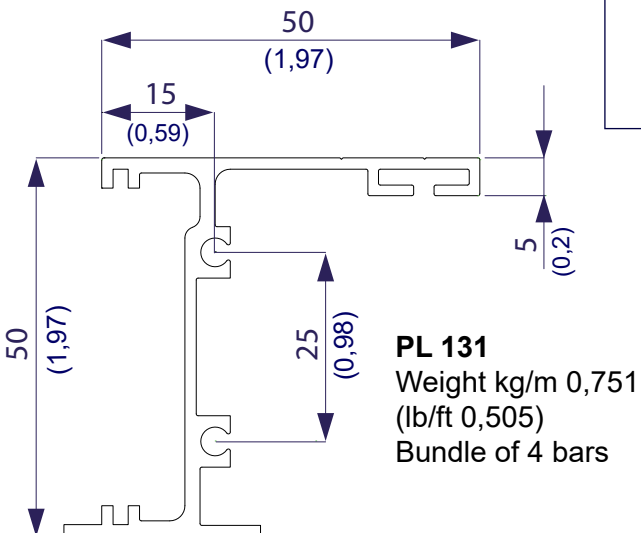
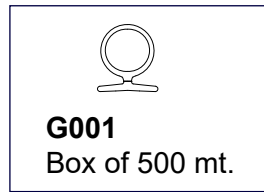
The special shape of the frame with a 45 degree cut along the length gives the shutter better adaptability and optimization of the internal spaces of the air treatment unit. This article is available in CLASS 2 and CLASS 3 versions (EN UNI 1751: 2013)

Inside the chapter you will find the explanation for the assembly of the shutters and, at the end of the section, a table containing the theoretical weights of the shutters based on the standard dimensions.

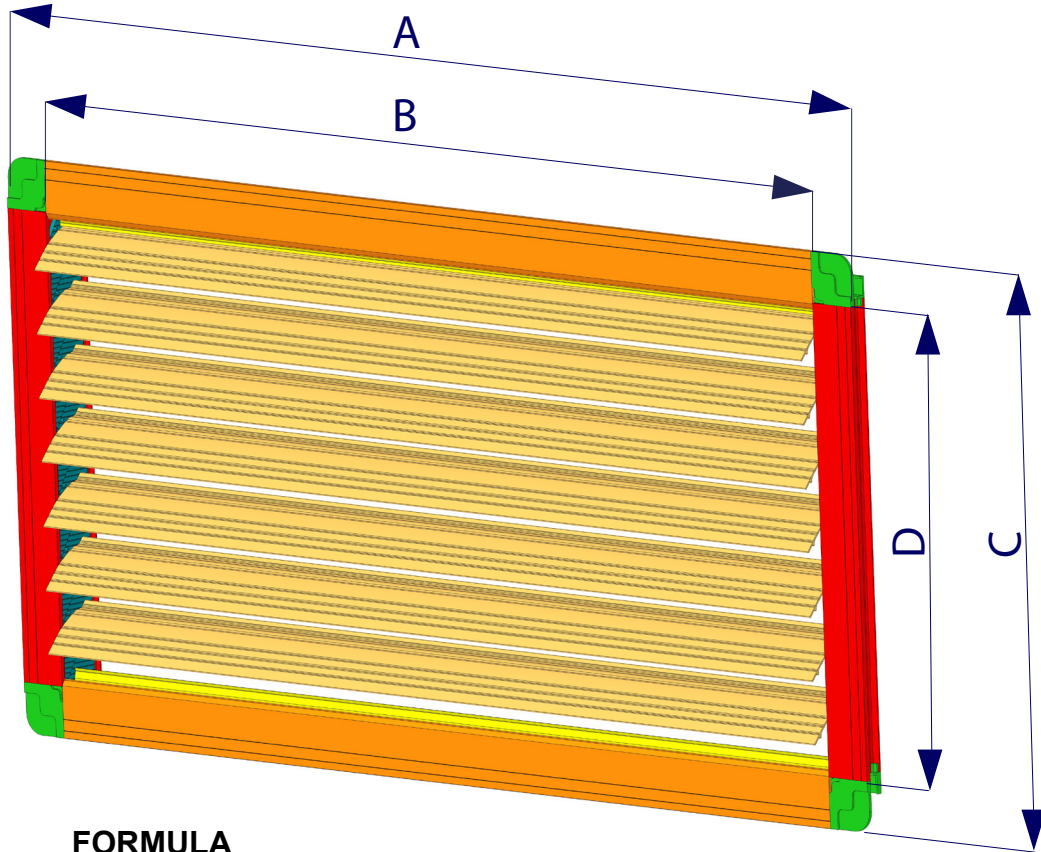
Profiles and accessories for positive air pressure damper



GASKET



3D representation of positive air pressure damper



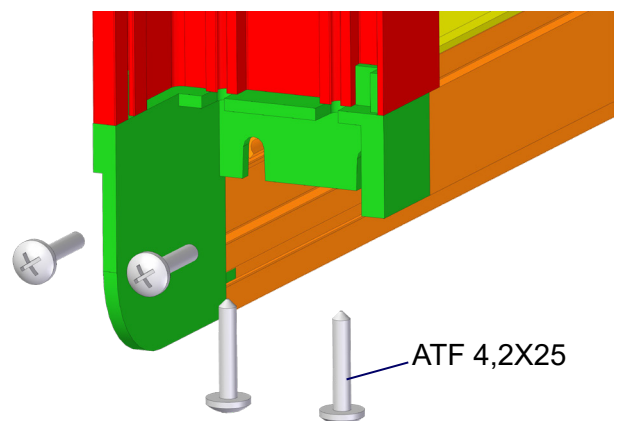
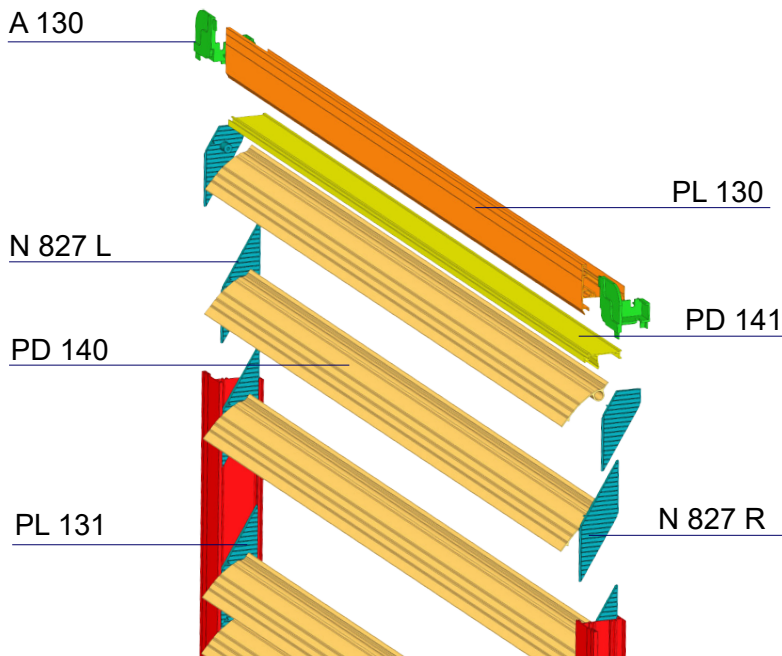
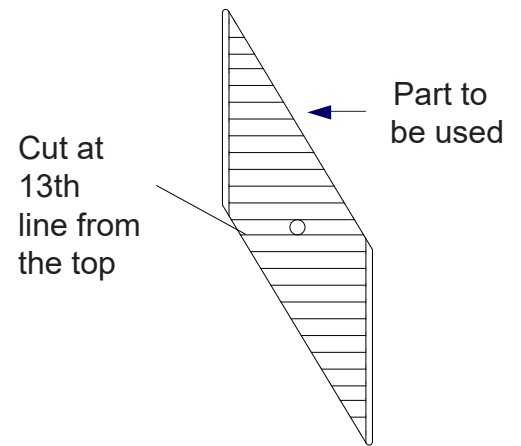
FORMULA

$B \text{ (PL 130 / PD 141)} = A - 100$
 $D \text{ (PL 131)} = C - 100$
 Length of blades (PD 140) = $A - 102$
 $C = [(N^\circ \text{ blades} - 1) \times 62] + 164$

DIRECT FORMULA

Length of blades = $(C - 100) : 62$
 if decimal result $>0,3$ add L-profile to avoid clearance

Cut of the spacer N 827 for placing the first blade

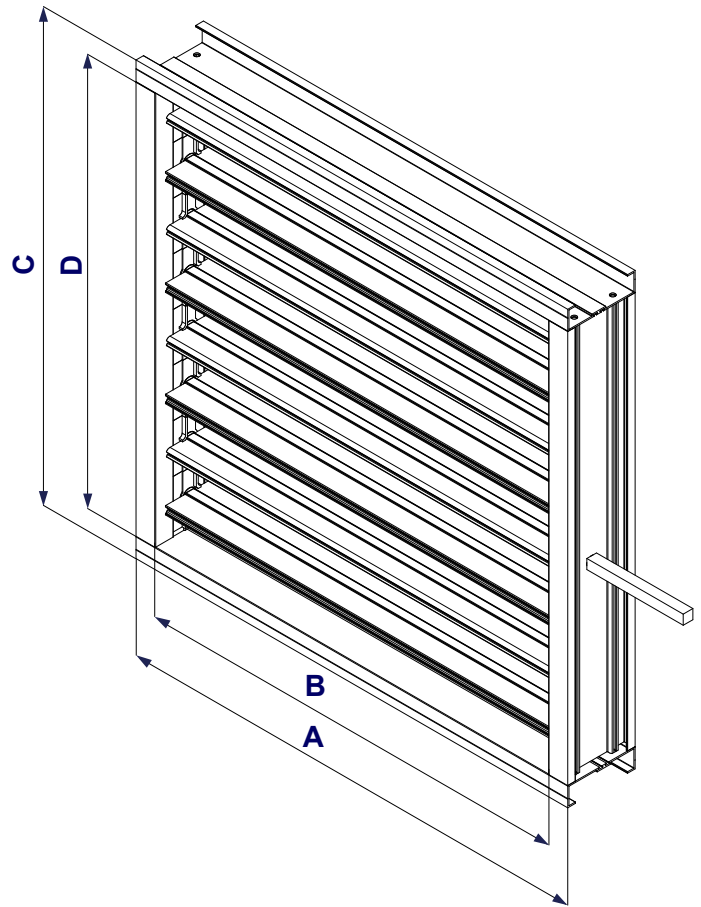


3D Representation of single damper pitch 50 mm

FORMULA PITCH 50 mm

SINGLE DAMPER

A = B + 40 mm
 Length of BLADES = B - 2 mm
 Length of BLADES NG007-50 = B - 10,5 mm
 C = D + 40 mm
 D = See table below

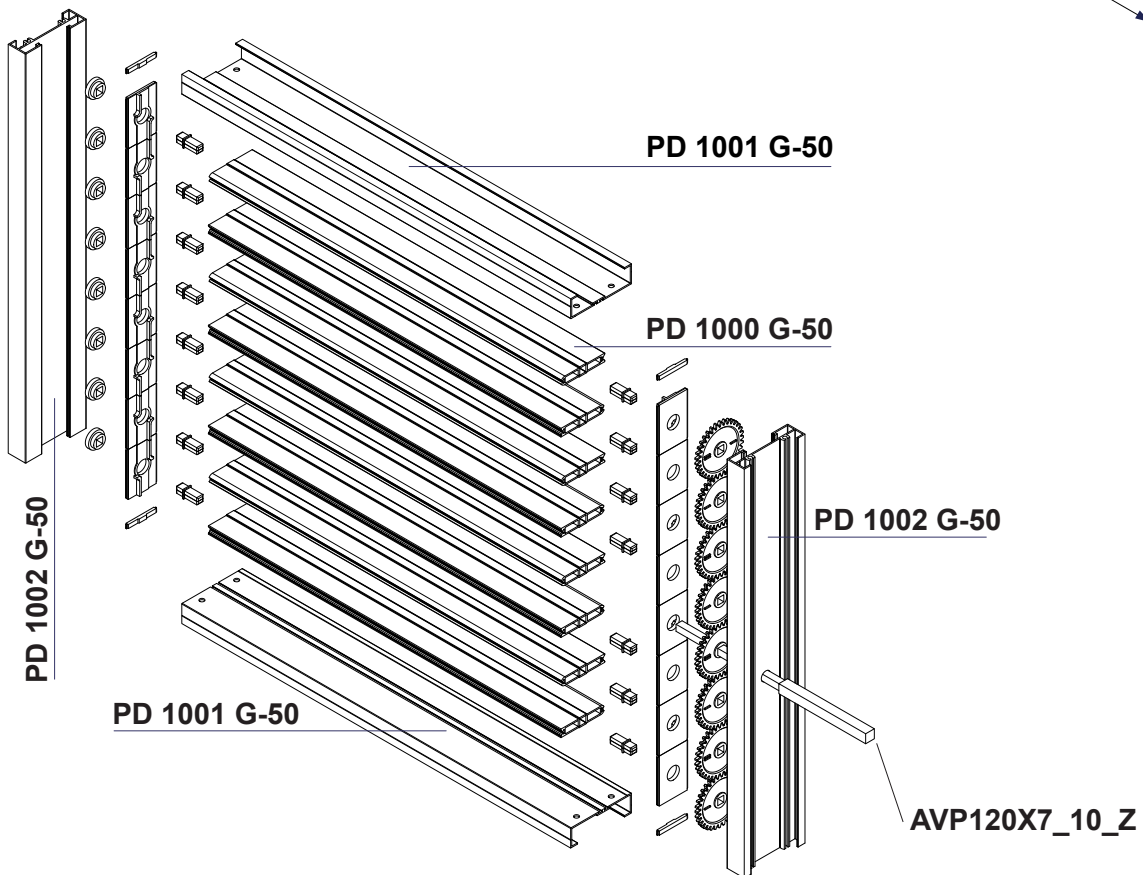


DIMENSION FOR PROFILE "D"

L = N° blades x 50 mm + 8 mm + TOLERANCES

TOLERANCES

from 105 mm to 305 mm = 1 mm
 from 305 mm to 705 mm = 1,5 mm
 from 705 mm to 1105 mm = 2 mm



3D Representation of double damper pitch 50 mm

FORMULA PITCH 50 mm

DOUBLE DAMPER

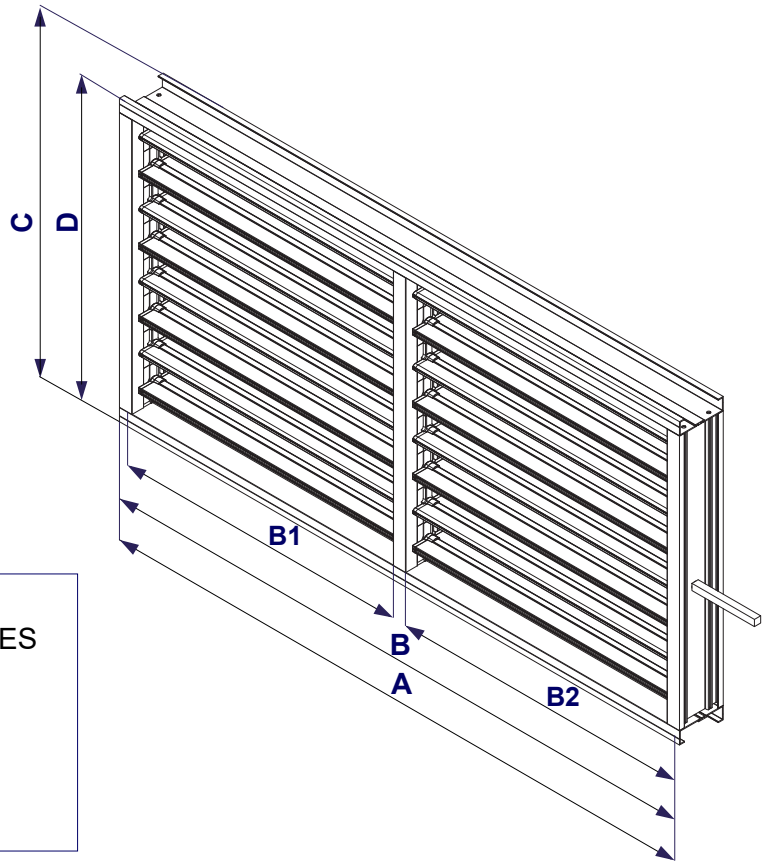
$A = B + 40 \text{ mm} + 20 \text{ mm (PD 1003 G-50)}$

Length of BLADES = $B - 2 \text{ mm}$

Length of BLADES NG007-50 = $B - 10,5 \text{ mm}$

$C = D + 40 \text{ mm}$

D = See table below



DIMENSION FOR PROFILE "D"

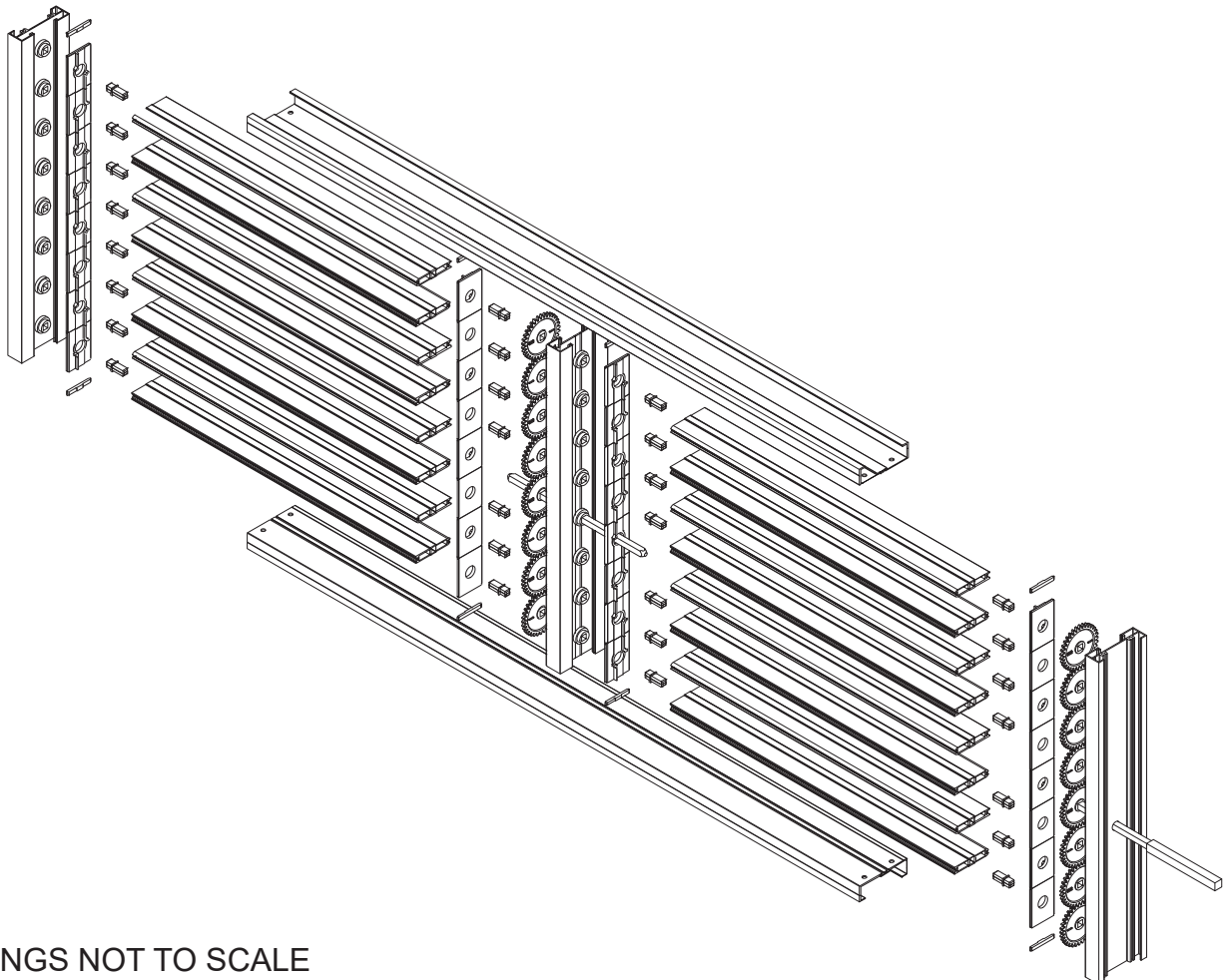
$L = N^{\circ} \text{ blades} \times 50 \text{ mm} + 8 \text{ mm} + \text{TOLERANCES}$

TOLERANCES

from 105 mm to 305 mm = 1 mm

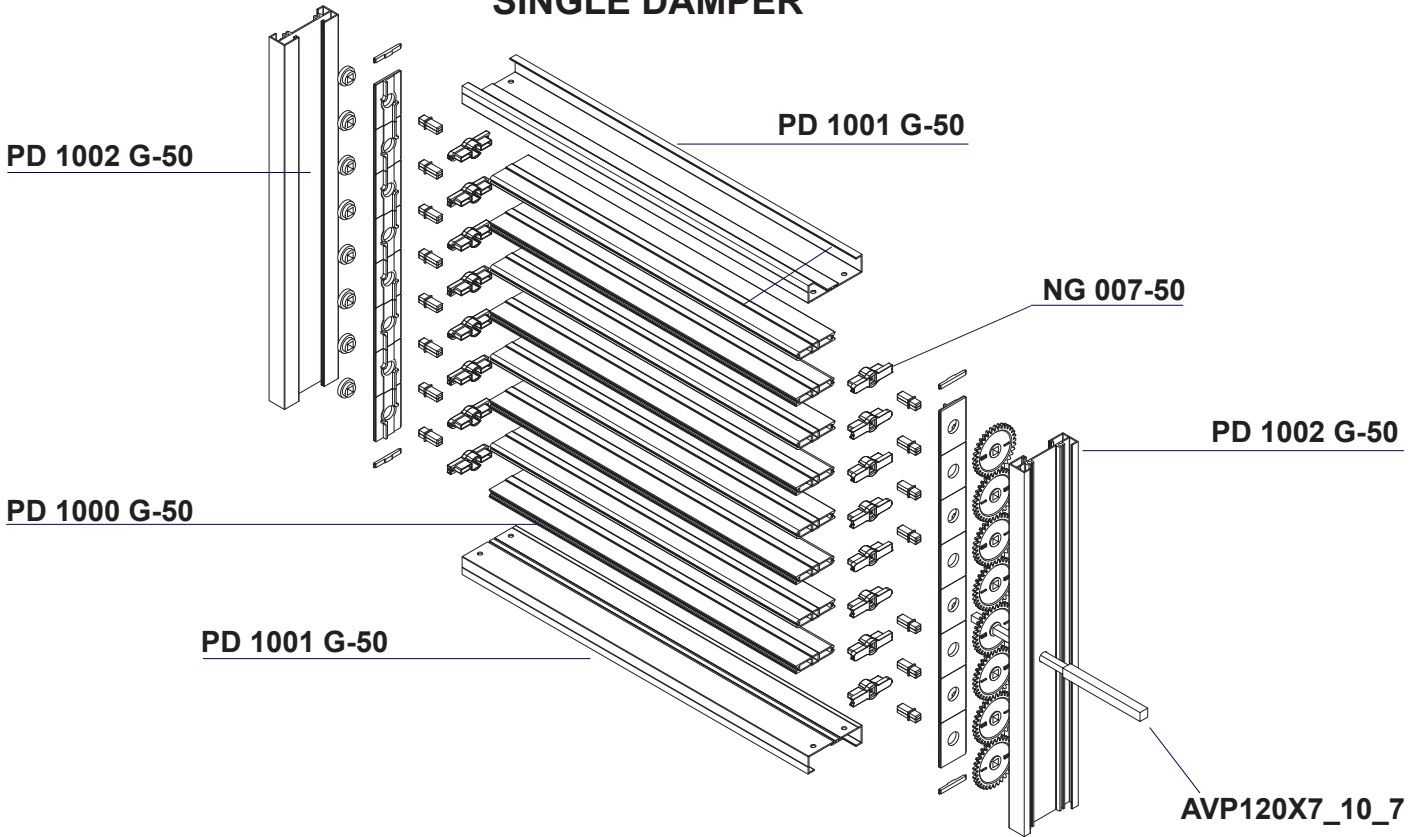
from 305 mm to 705 mm = 1,5 mm

from 705 mm to 1105 mm = 2 mm

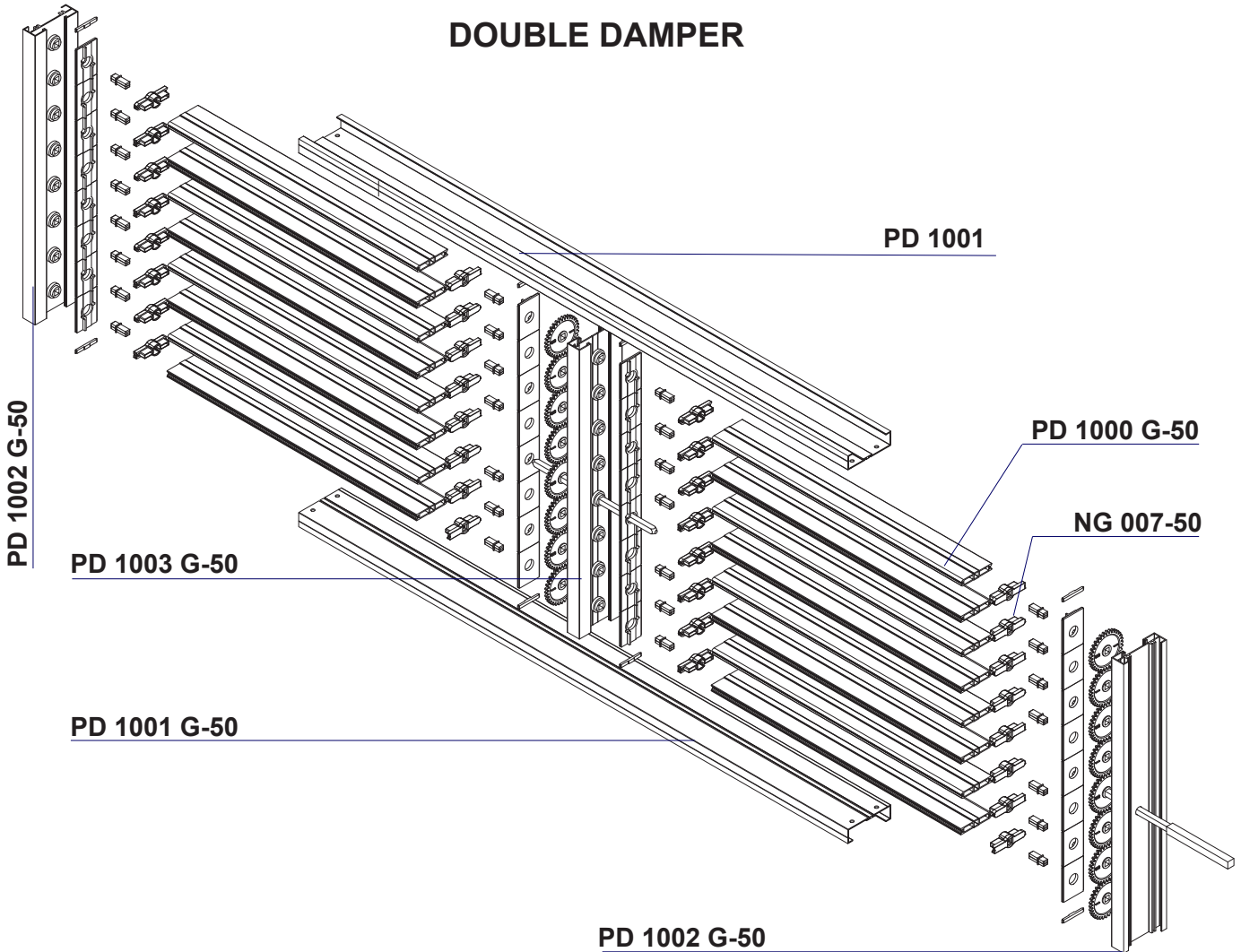


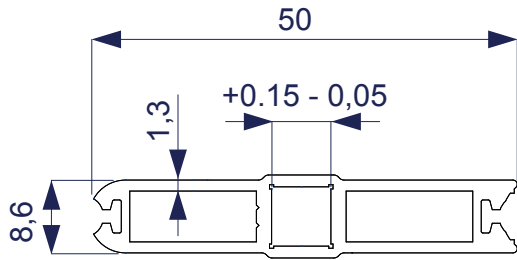
DRAWINGS NOT TO SCALE

SINGLE DAMPER



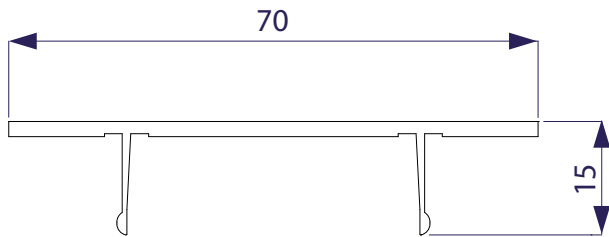
DOUBLE DAMPER





PD 1000 G-50

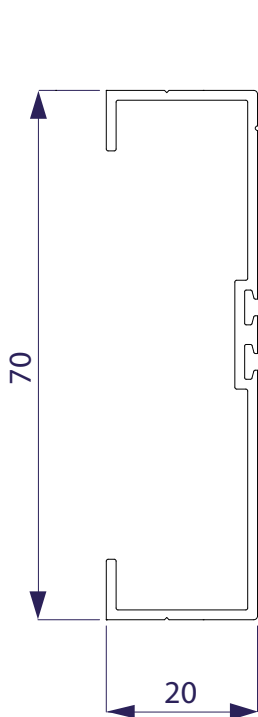
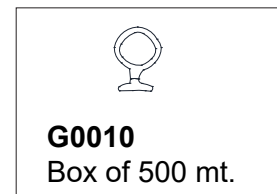
Weight kg/m 0,428
 (lb/ft 0,288)
 Bundle of 4 bars



PD 1008 G-50

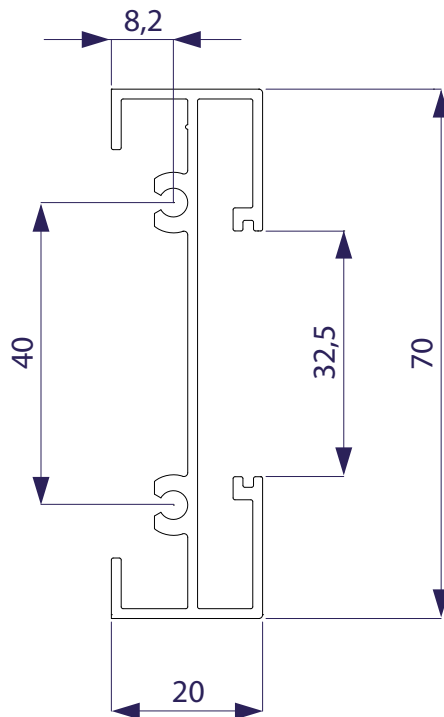
Weight kg/m 0,439
 (lb/ft 0,295)
 Bundle of 2 bars

GASKET



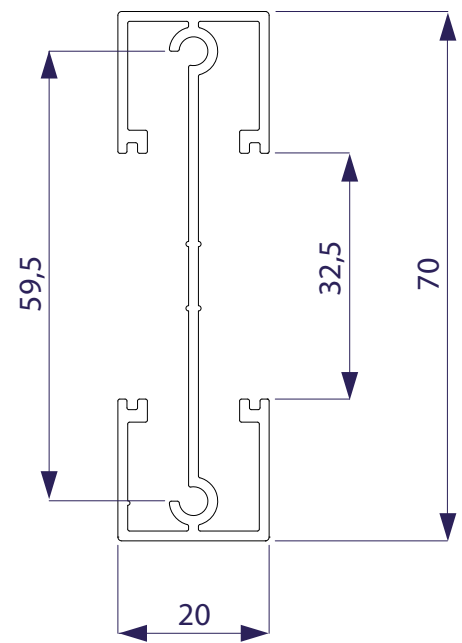
PD 1001 G-50

Weight kg/m 0,465
 (lb/ft 0,310)
 Bundle of 6 bars



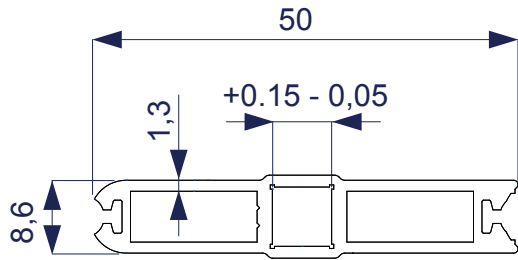
PD 1002 G-50

Weight kg/m 0,702
 (lb/ft 0,472)
 Bundle of 4 bars

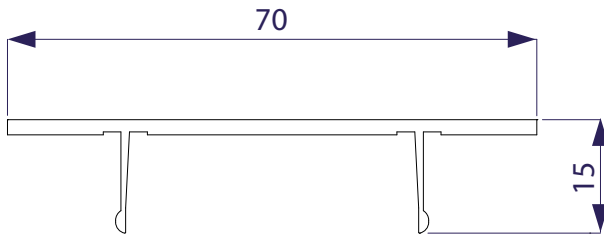


PD 1003 G-50

Weight kg/m 0,750
 (lb/ft 0,504)
 Bundle of 3 bars

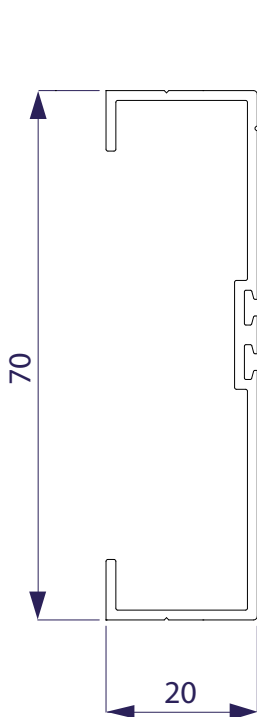
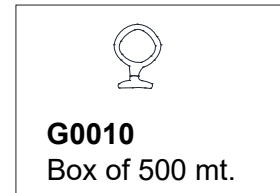


PD 1000 G-50
 Weight kg/m 0,428
 (lb/ft 0,288)
 Bundle of 4 bars

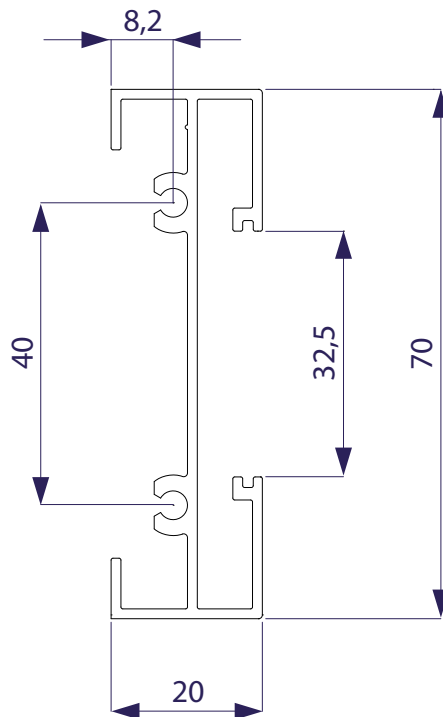


PD 1008 G-50
 Weight kg/m 0,439
 (lb/ft 0,295)
 Bundle of 2 bars

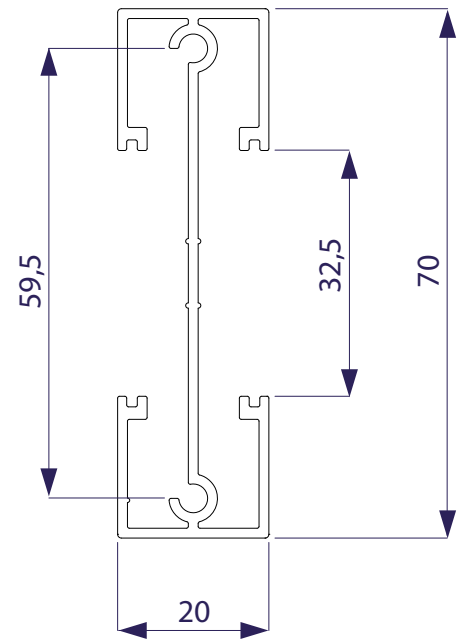
GASKET



PD 1001 G-50
 Weight kg/m 0,465
 (lb/ft 0,310)
 Bundle of 6 bars



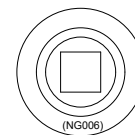
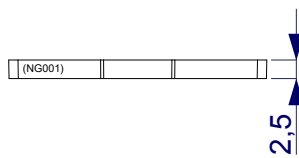
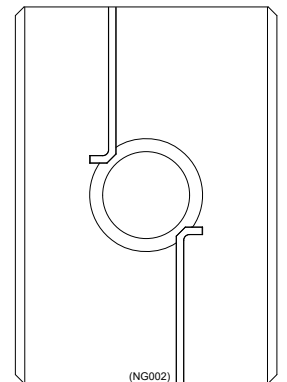
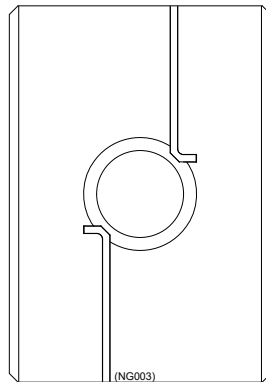
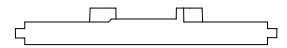
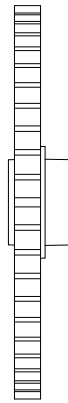
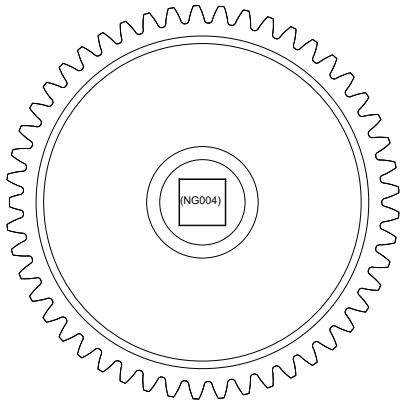
PD 1002 G-50
 Weight kg/m 0,702
 (lb/ft 0,472)
 Bundle of 4 bars



PD 1003 G-50
 Weight kg/m 0,750
 (lb/ft 0,504)
 Bundle of 3 bars

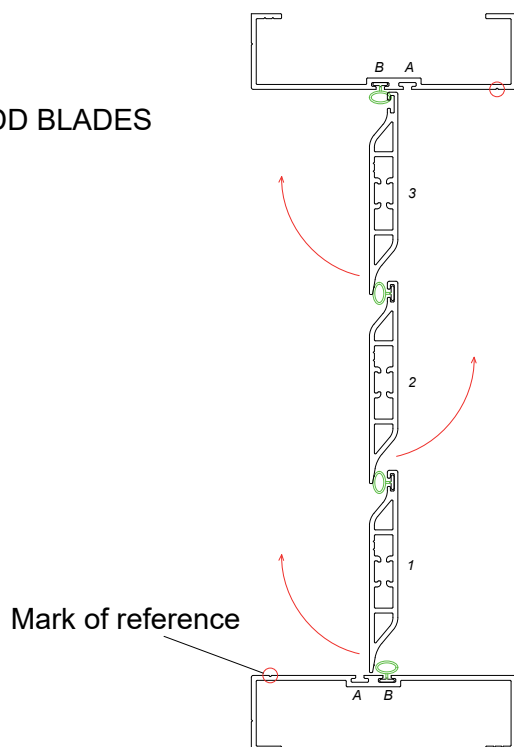
NG100-50

Scatole da 600 pcs.

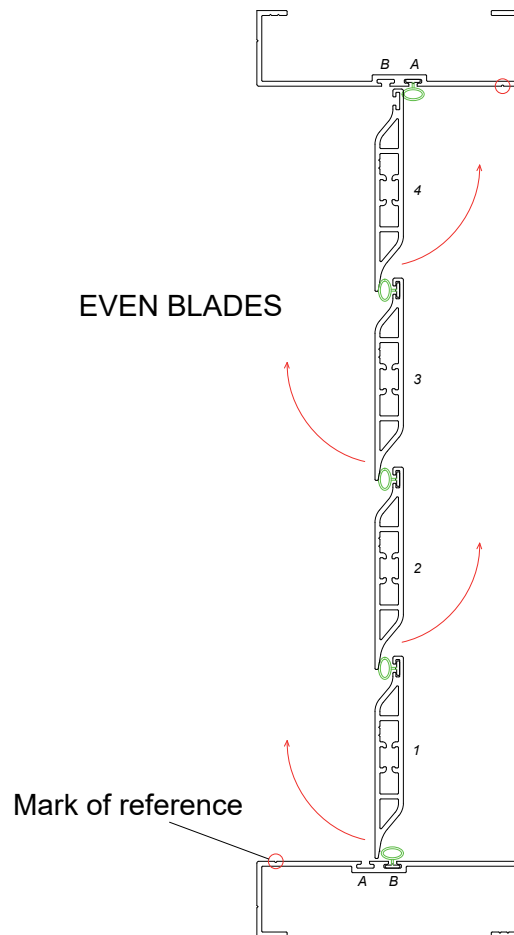


GASKET LAYOUT

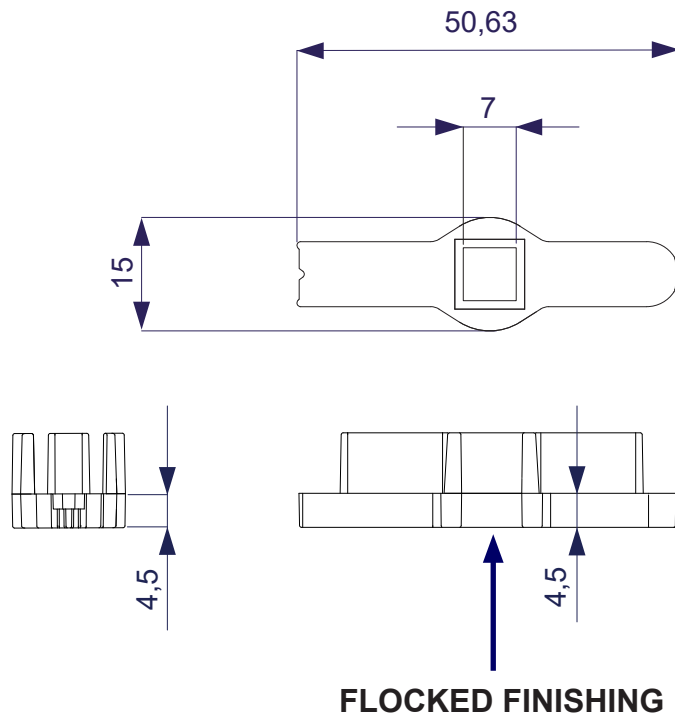
ODD BLADES



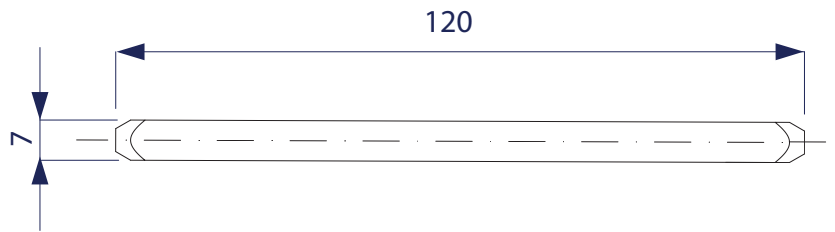
EVEN BLADES



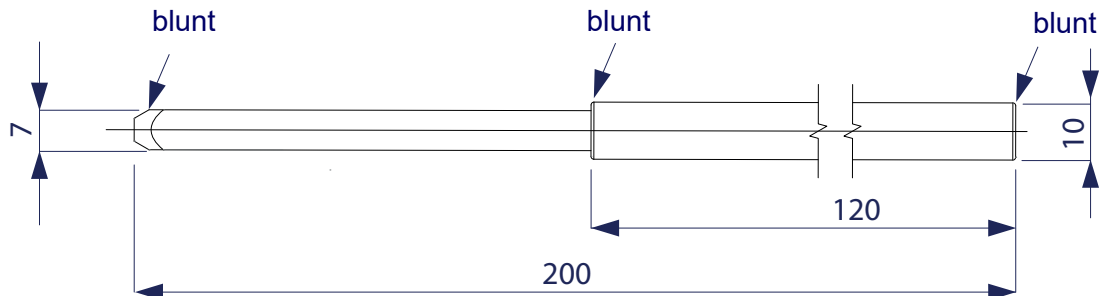
NG 007-50



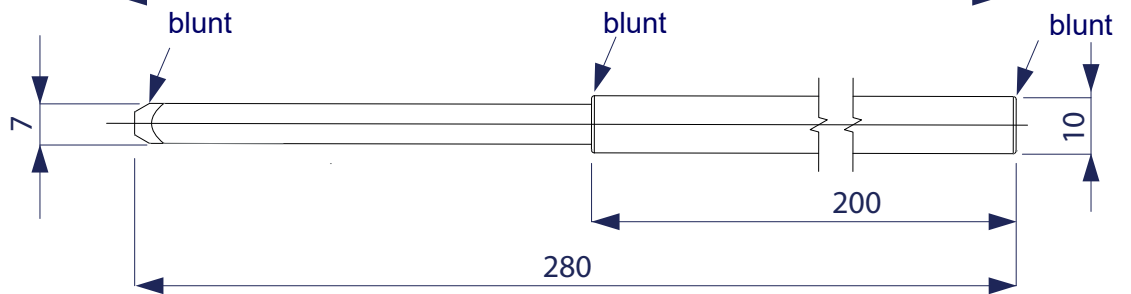
AVP120X7_Z



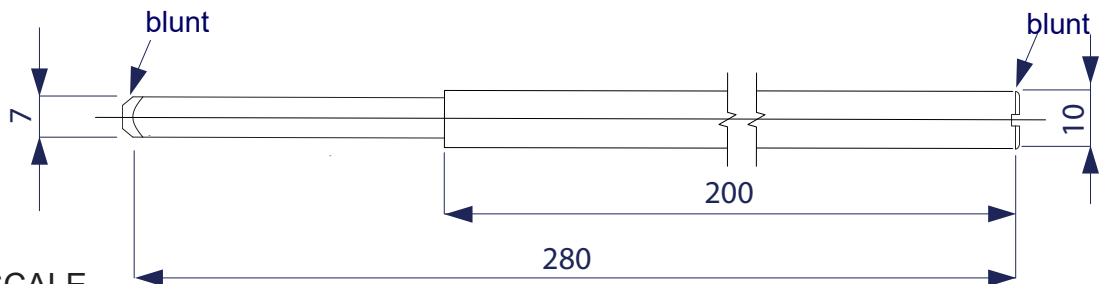
AVP120X7_10_Z-



AVP200X7_10_Z

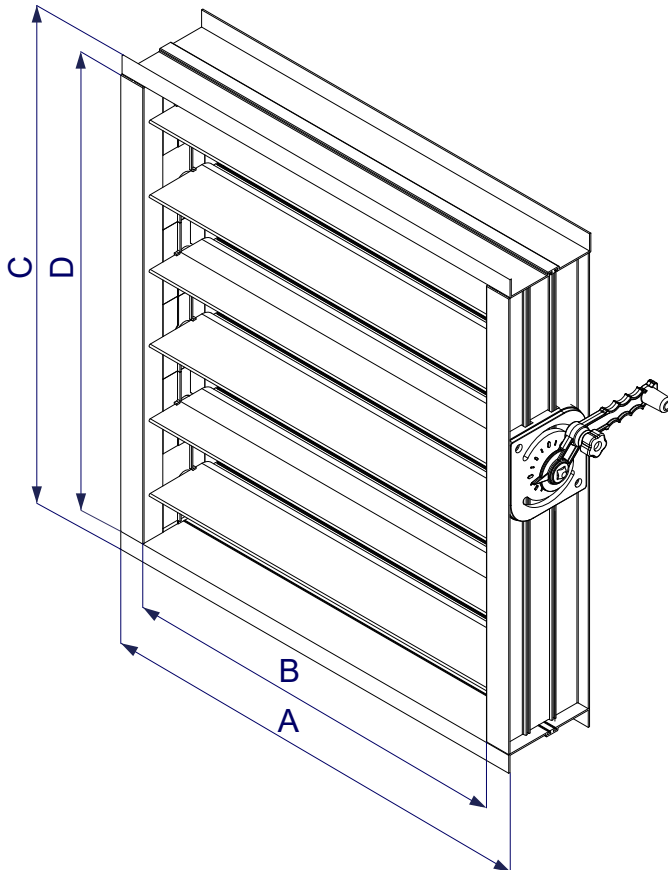


AVP200X7_10D_Z



DRAWINGS NOT TO SCALE

3D representation of single damper



FORMULA SINGLE DAMPER

STANDARD

$A = B + 70 \text{ mm}$

Length of BLADES = $B - 3 \text{ mm}$

Length of BLADES NG007 A_B = $B - 10,5 \text{ mm}$

$C = D + 50 \text{ mm}$

D = See table below

LIGHT

$A = B + 60 \text{ mm}$

Length of BLADES = $B - 3 \text{ mm}$

Length of BLADES NG007 A_B = $B - 10,5 \text{ mm}$

$C = D + 40 \text{ mm}$

D = See table below

REINFORCED

$A = B + 60 \text{ mm}$

Length of BLADES = $B - 3 \text{ mm}$

Length of BLADES NG007 A_B = $B - 10,5 \text{ mm}$

$C = D + 30 \text{ mm}$

D = See table below

DIMENSION FOR PROFILE "D"

$L = N^\circ \text{ blades} \times 100 \text{ mm} + 10 \text{ mm} + \text{TOLERANCES}$

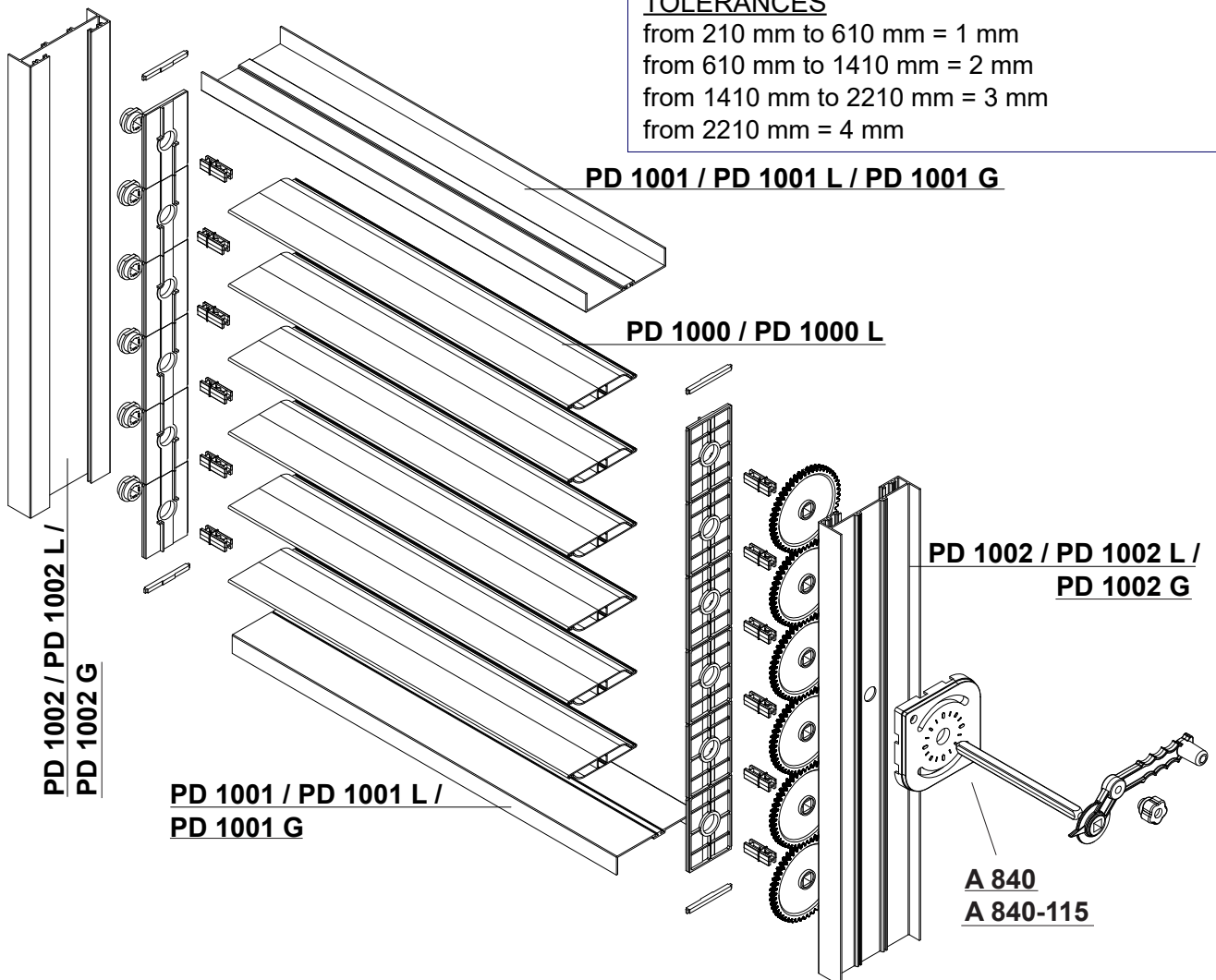
TOLERANCES

from 210 mm to 610 mm = 1 mm

from 610 mm to 1410 mm = 2 mm

from 1410 mm to 2210 mm = 3 mm

from 2210 mm = 4 mm



3D representation of double damper

FORMULA DOUBLE DAMPER

STANDARD

$A = B + 70 \text{ mm} + 35 \text{ mm}$ (PD 1003)

Length of BLADES = $B - 3 \text{ mm}$

Length of BLADES NG007 A_B = $B - 10,5 \text{ mm}$

$C = D + 50 \text{ mm}$

D = See table pg. 04

LIGHT

$A = B + 60 \text{ mm} + 35 \text{ mm}$ (PD 1003 L)

Length of BLADES = $B - 3 \text{ mm}$

Length of BLADES NG007 A_B = $B - 10,5 \text{ mm}$

$C = D + 40 \text{ mm}$

D = See table pg. 04

REINFORCED

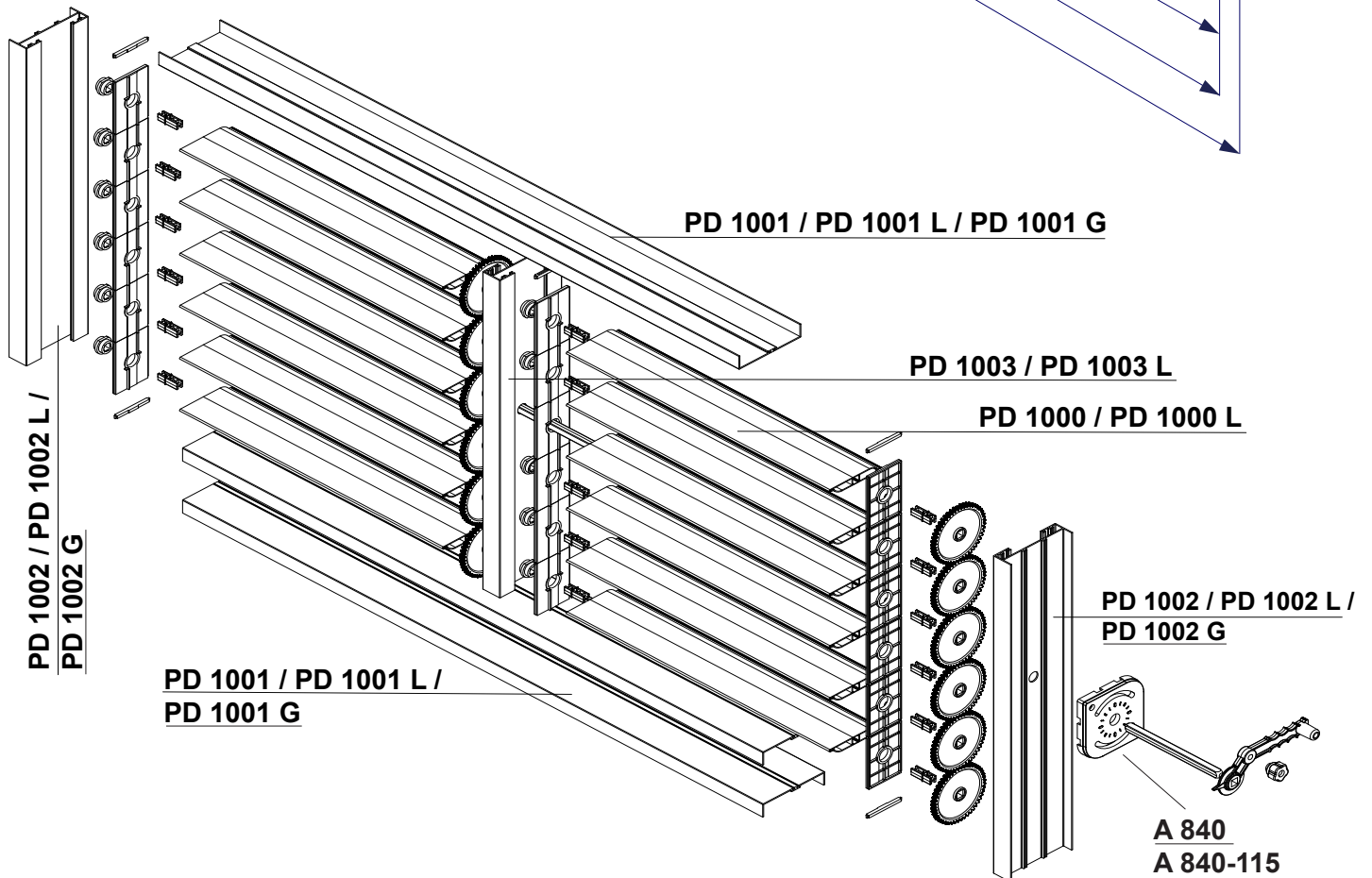
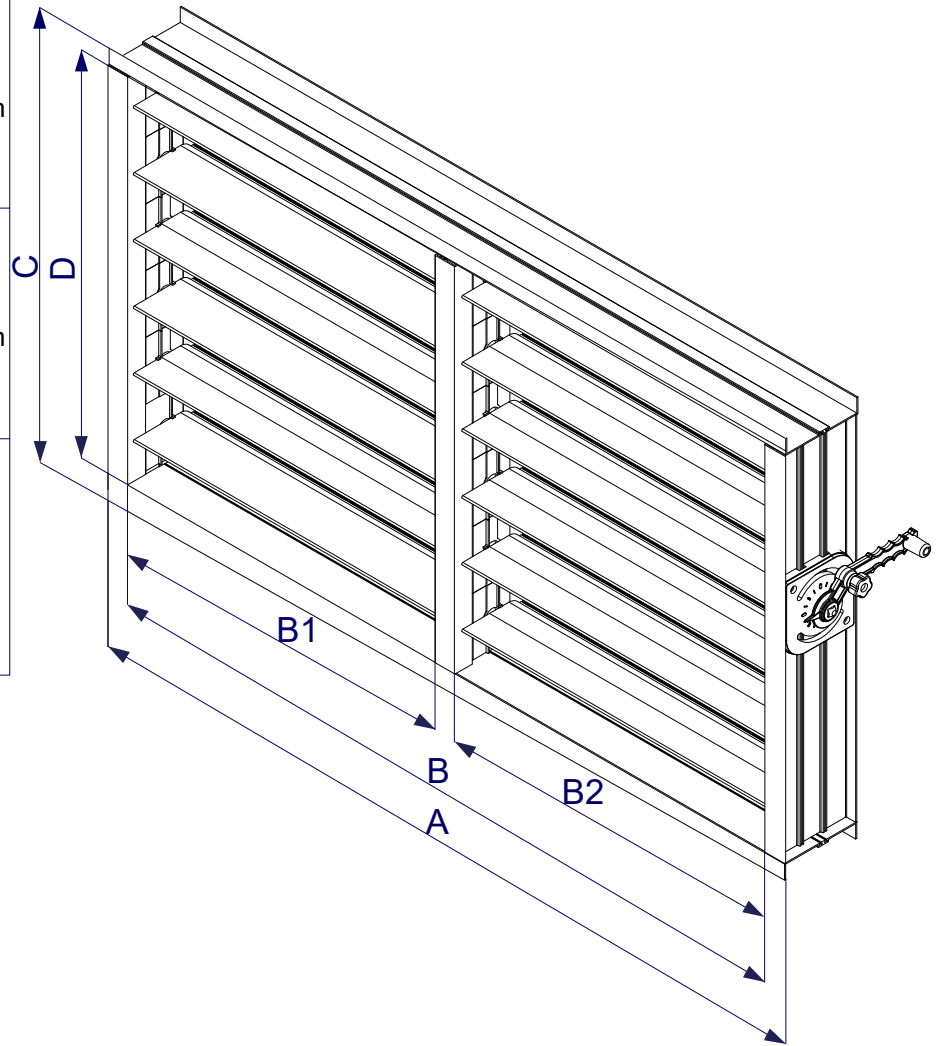
$A = B + 60 \text{ mm} + 35 \text{ mm}$ (PD 1003)

Length of BLADES = $B - 3 \text{ mm}$

Length of BLADES NG007 A_B = $B - 10,5 \text{ mm}$

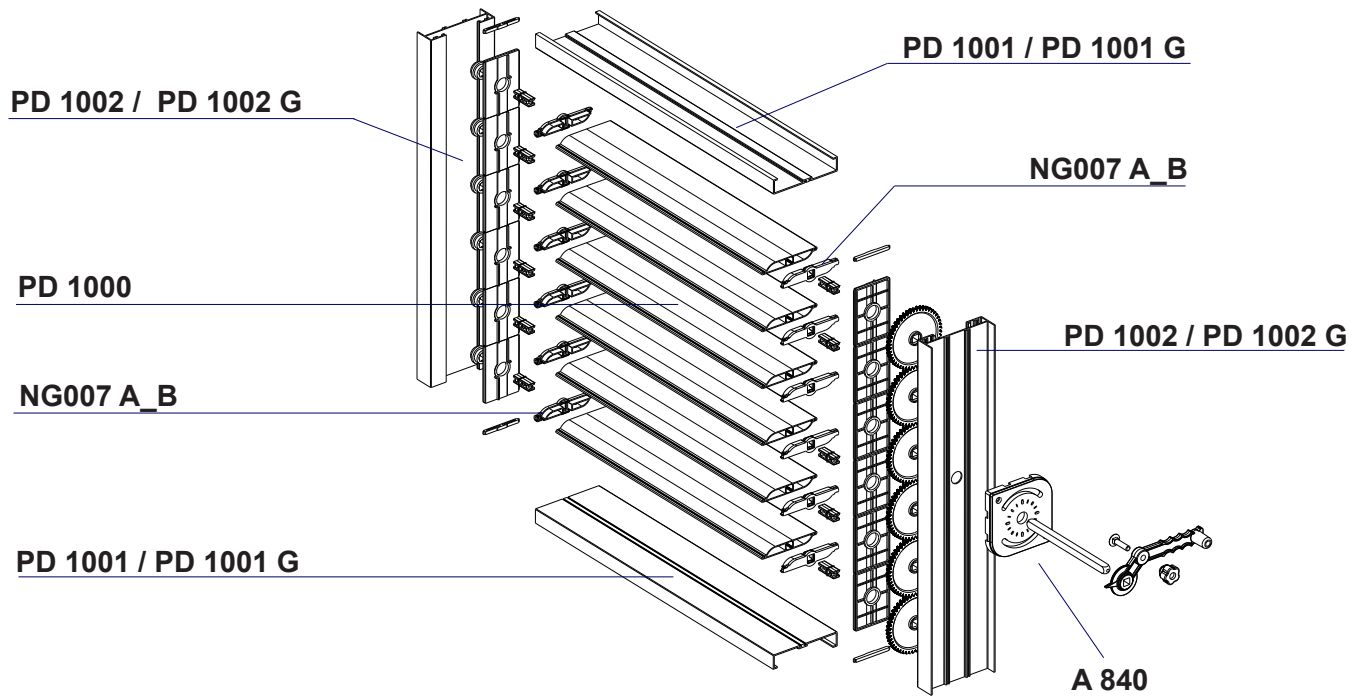
$C = D + 30 \text{ mm}$

D = See table pg. 04

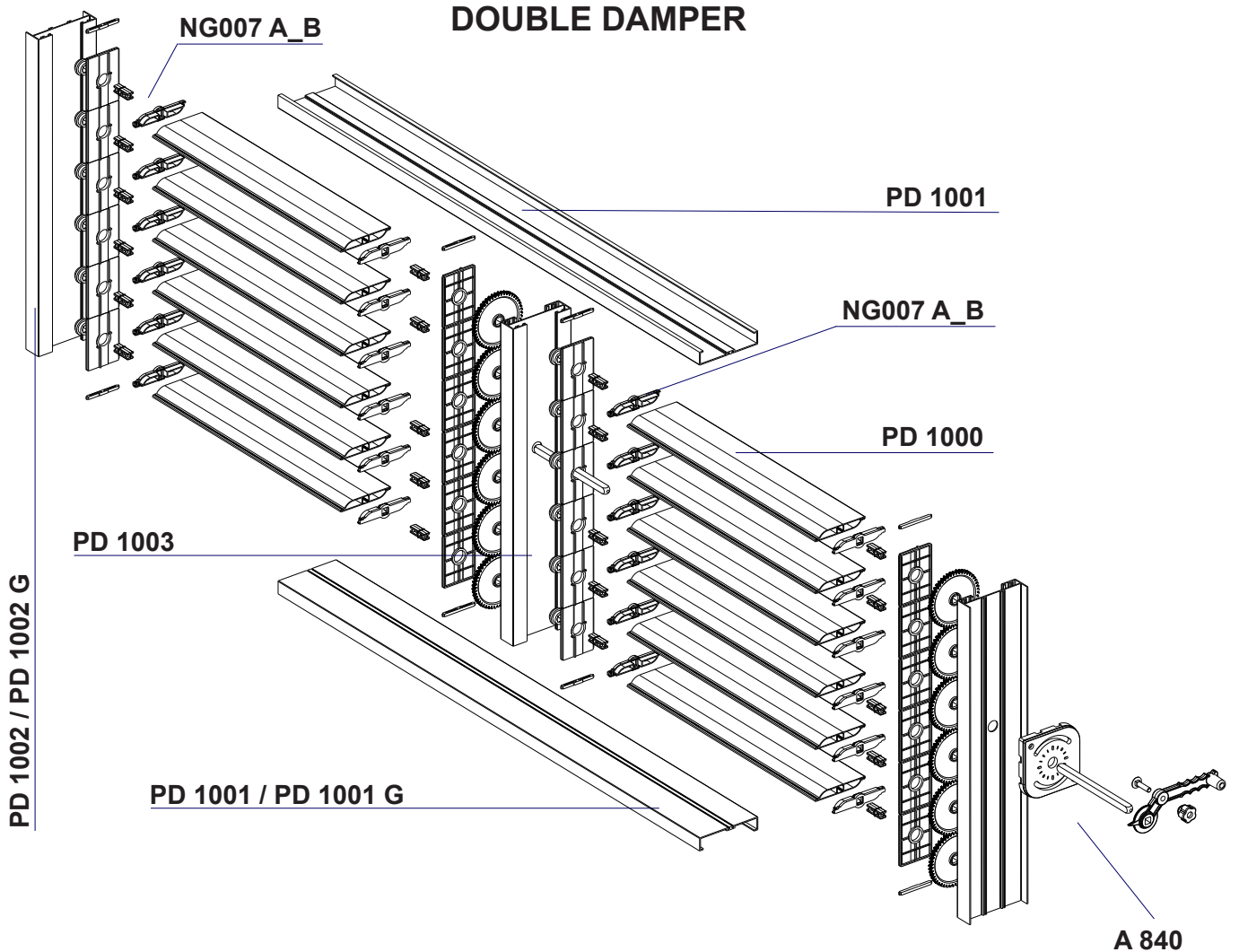


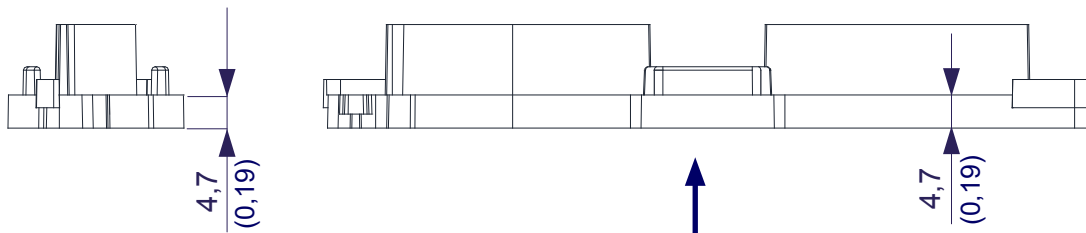
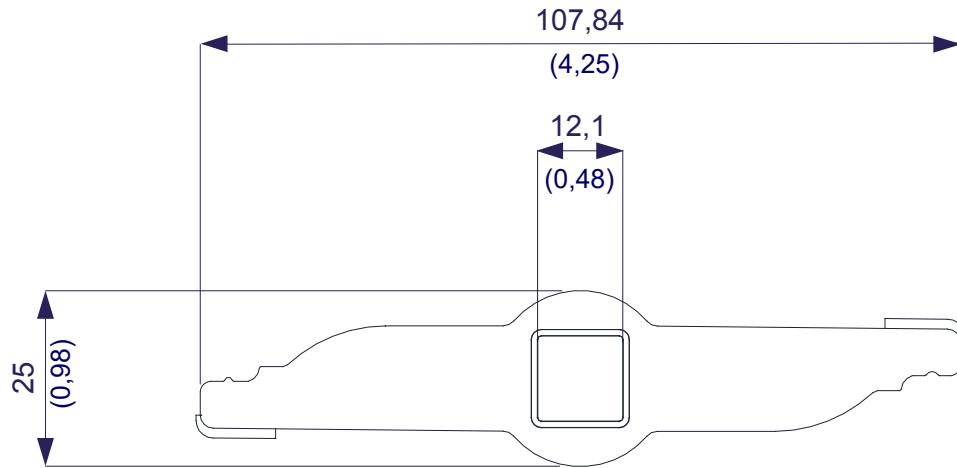
COMPLIANT TO UNI EN 1751:2014

SINGLE DAMPER



DOUBLE DAMPER

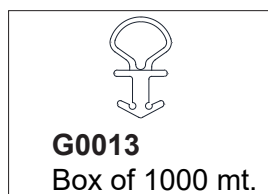




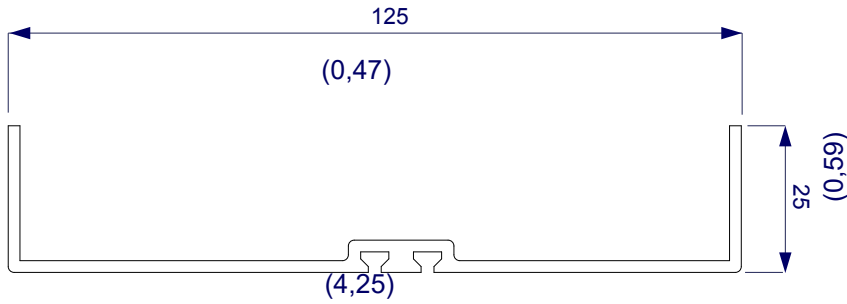
NG007 A_B
Box of 400 pcs.

FLOCKED FINISHING

GASKET

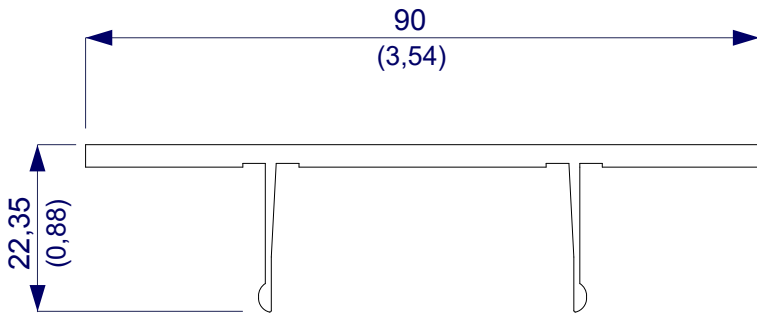


STANDARD



PD 1000

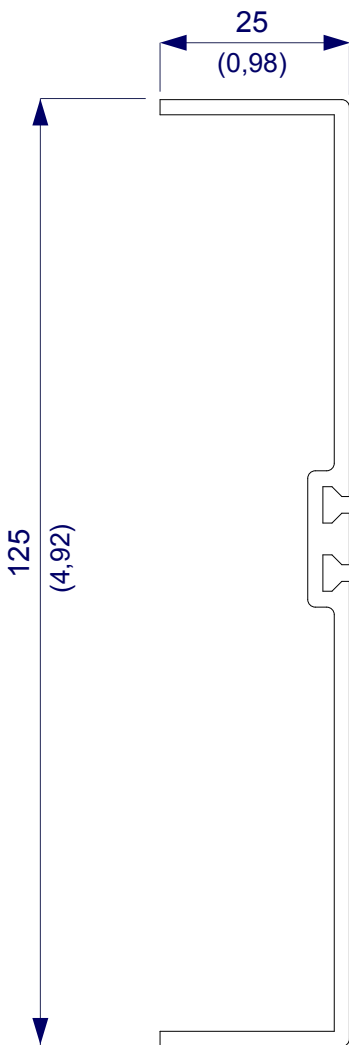
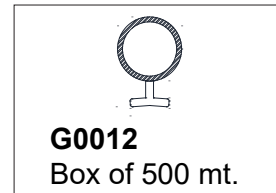
Weight kg/m 1,013
(lb/ft 0,681)
Bundle of 3 bars



PD 1008

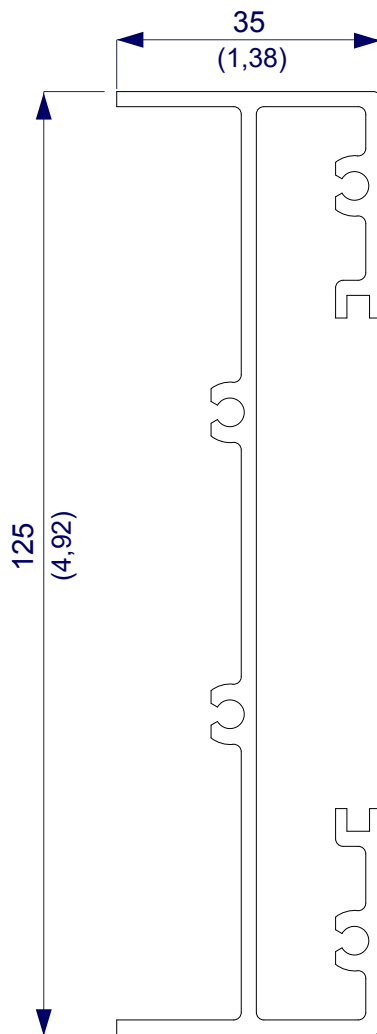
Weight kg/mt 0,842
(lb/ft 0,566)
Bundle of 2 bars

GASKET



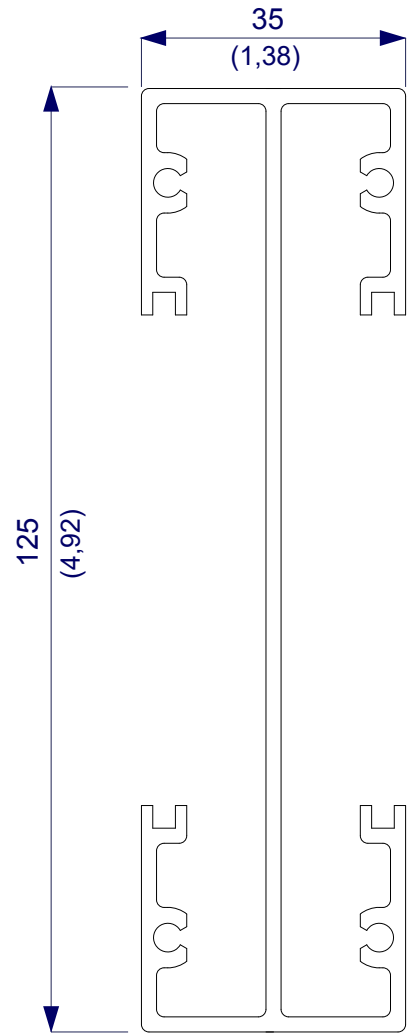
PD 1001

Weight kg/m 1,049
(lb/ft 0,705)
Bundle of 6 bars



PD 1002

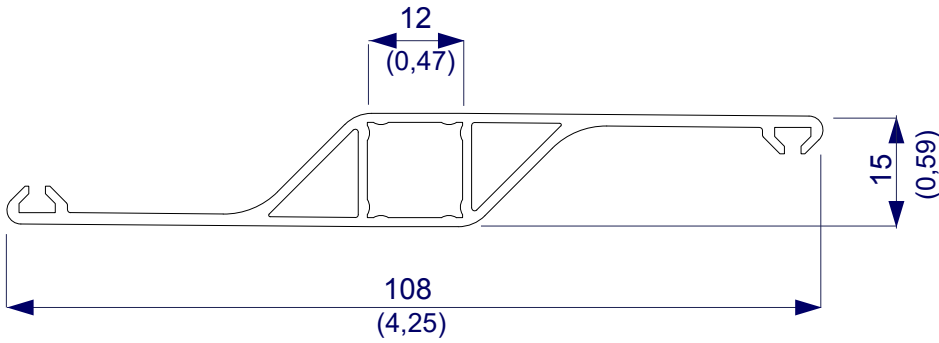
Weight kg/m 1,625
(lb/ft 1,092)
Bundle of 4 bars



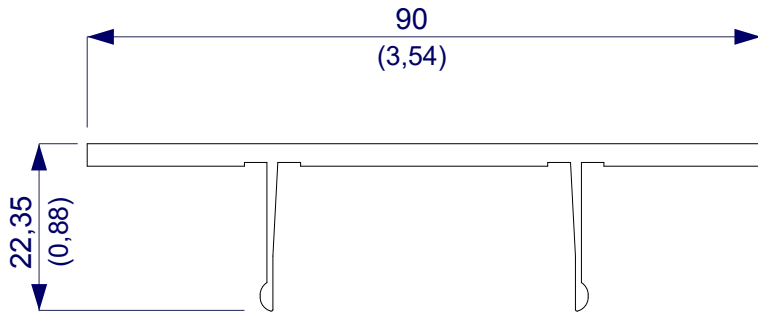
PD 1003

Weight kg/m 1,994
(lb/ft 1,340)
Bundle of 3 bars

LIGHT

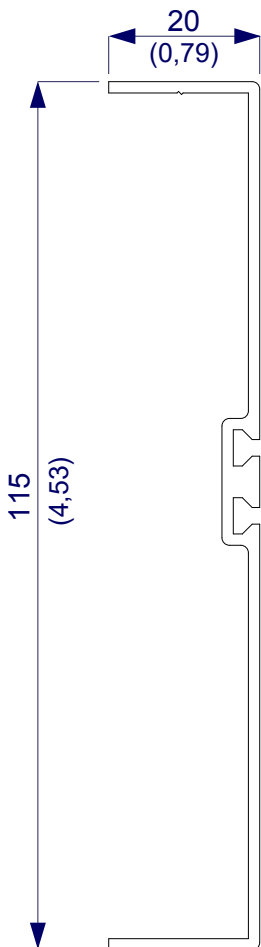
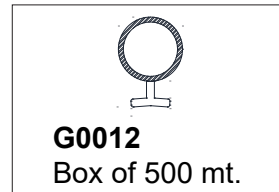


PD 1000 L
 Weight kg/m 0,752
 (lb/ft 0,505)
 Bundle of 3 bars

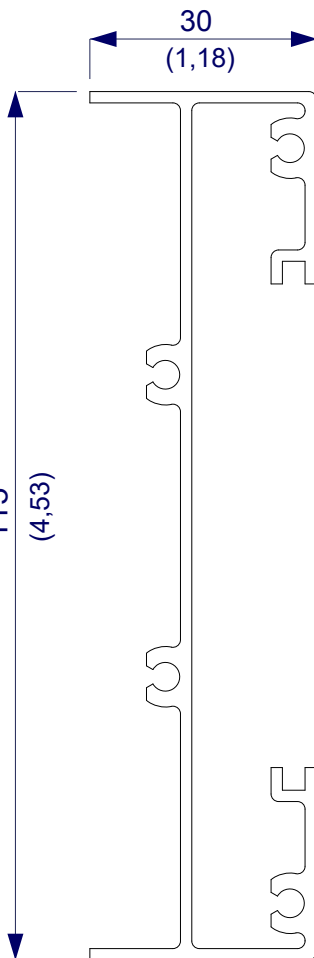


PD1008
 Weight kg/m 0,842
 (lb/ft 0,566)
 Bundle of 2 bars

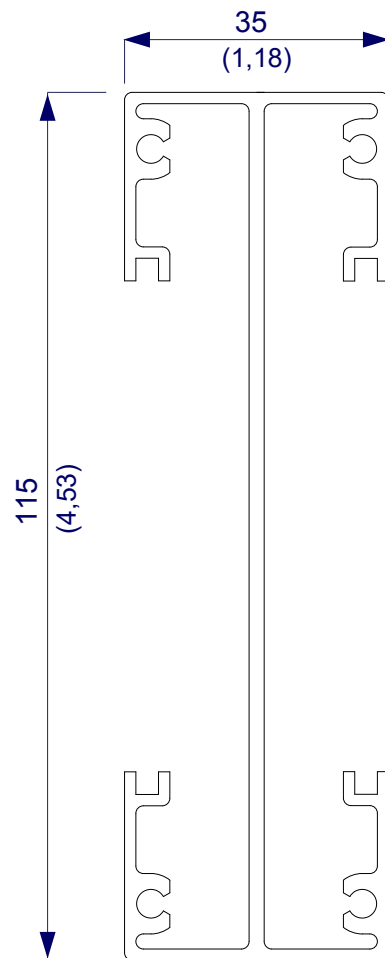
GASKET



PD 1001 L
 Weight kg/m 0,717
 (lb/ft 0,482)
 Bundle of 6 bars



PD 1002 L
 Weight kg/m 1,208
 (lb/ft 0,812)
 Bundle of 4 bars

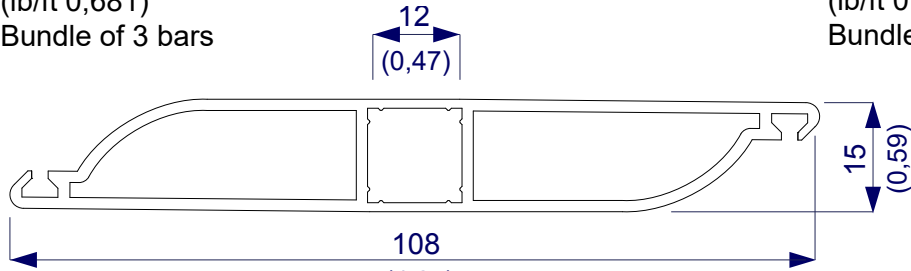


PD 1003 L
 Weight kg/m 1,656
 (lb/ft 1,113)
 Bundle of 3 bars

REINFORCED

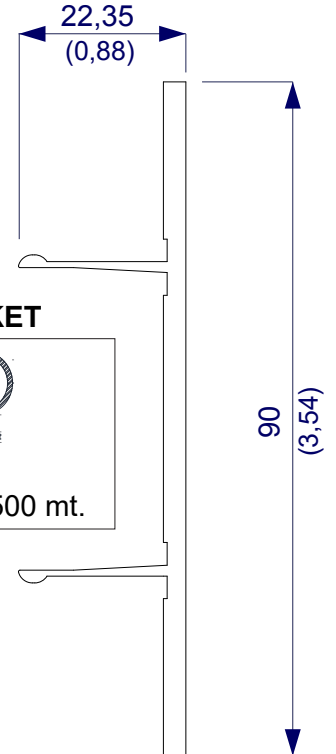
PD 1000

Weight kg/m 1,013
(lb/ft 0,681)
Bundle of 3 bars



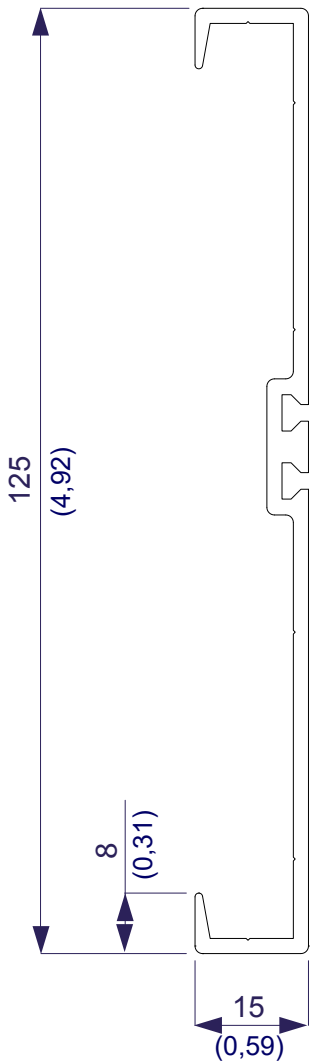
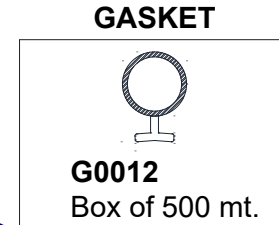
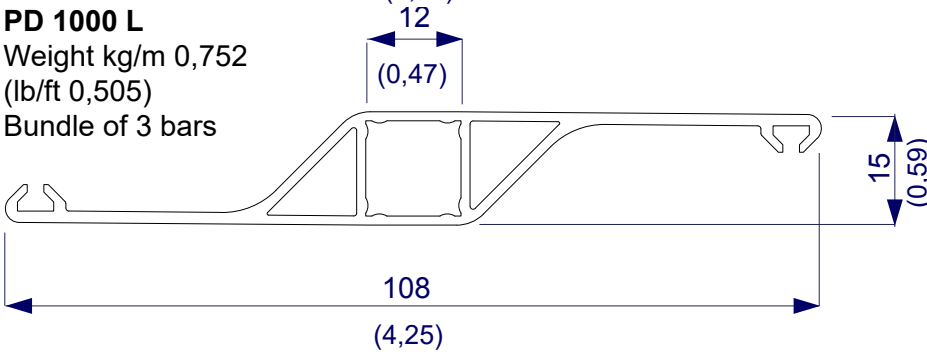
PD 1008

Weight kg/m 0,842
(lb/ft 0,566)
Bundle of 2 bars



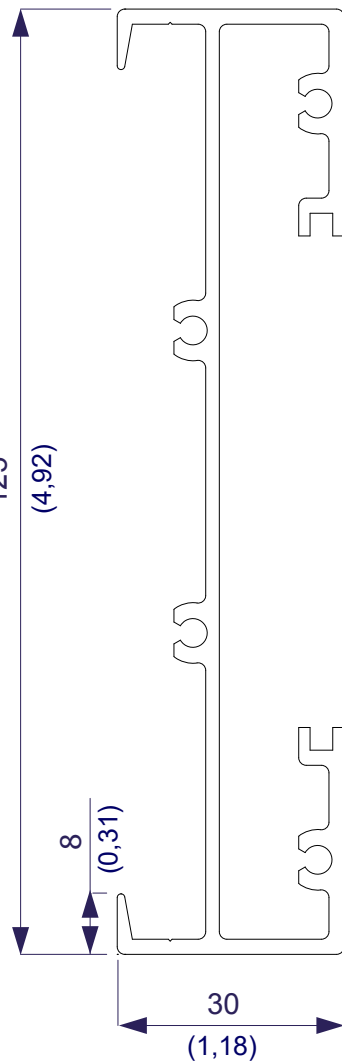
PD 1000 L

Weight kg/m 0,752
(lb/ft 0,505)
Bundle of 3 bars



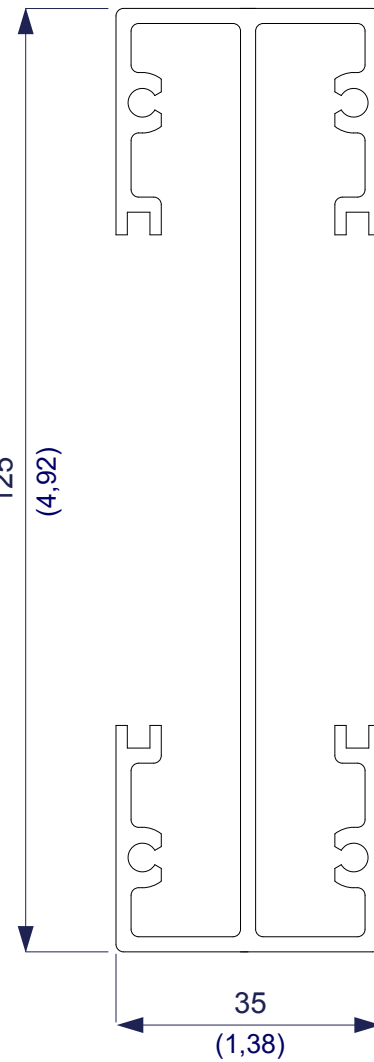
PD 1001 G

Weight kg/m 0,975
(lb/ft 0,655)
Bundle of 6 bars



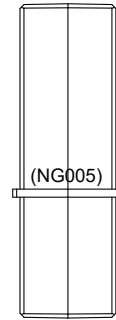
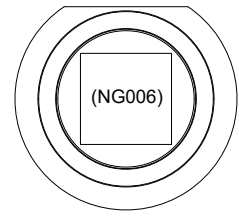
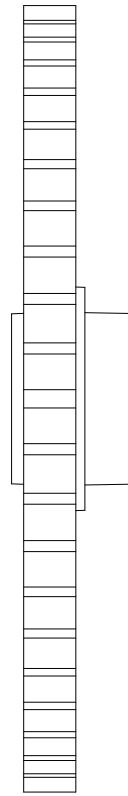
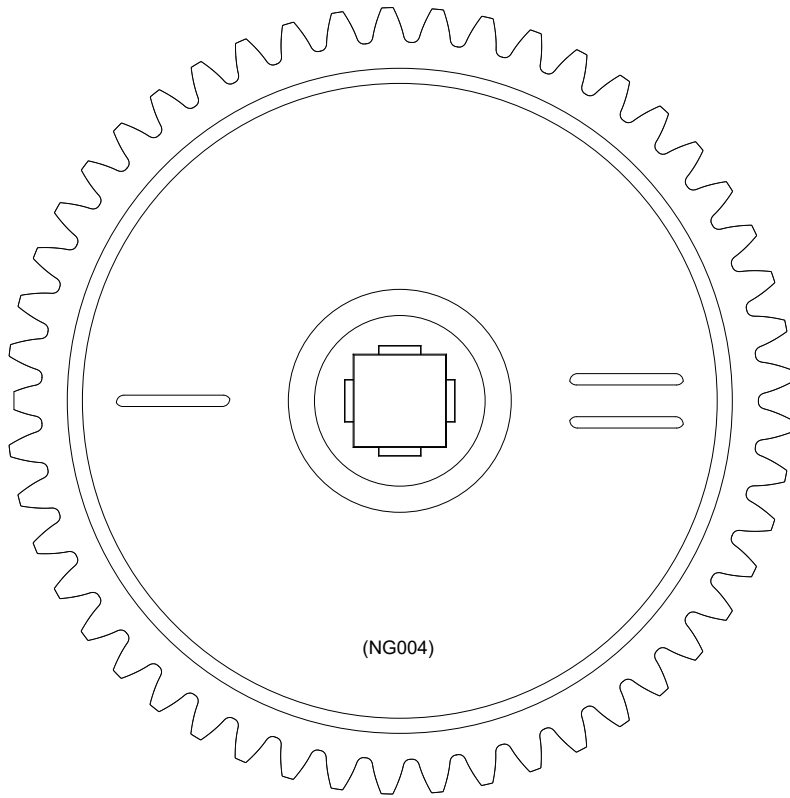
PD 1002 G

Weight kg/m 1,548
(lb/ft 1,040)
Bundle of 4 bars

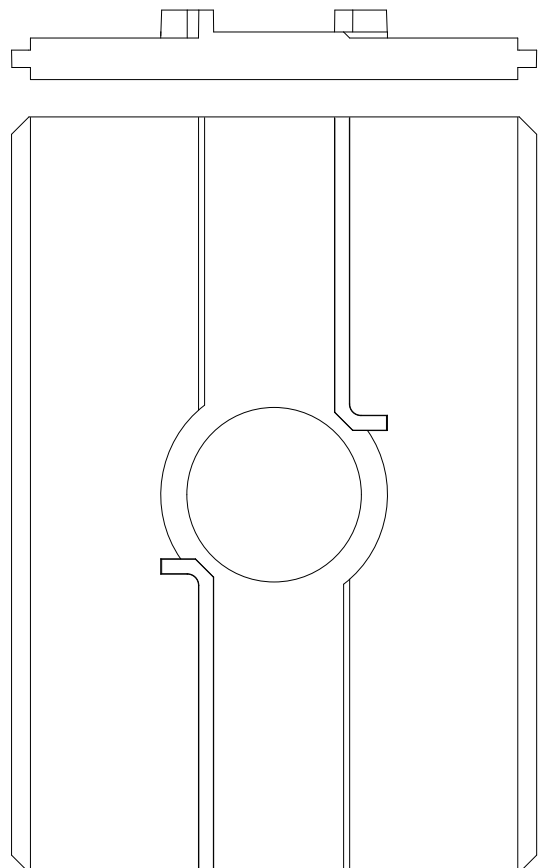
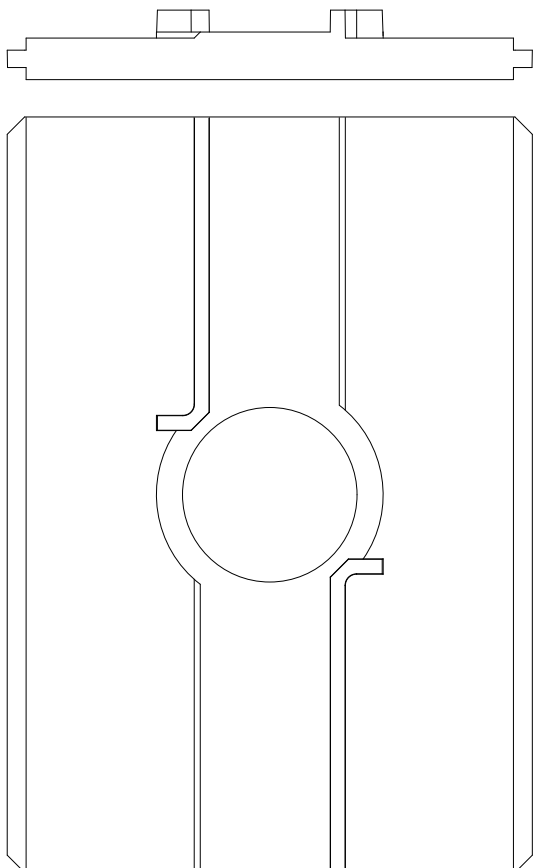
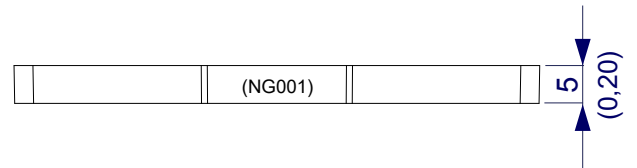


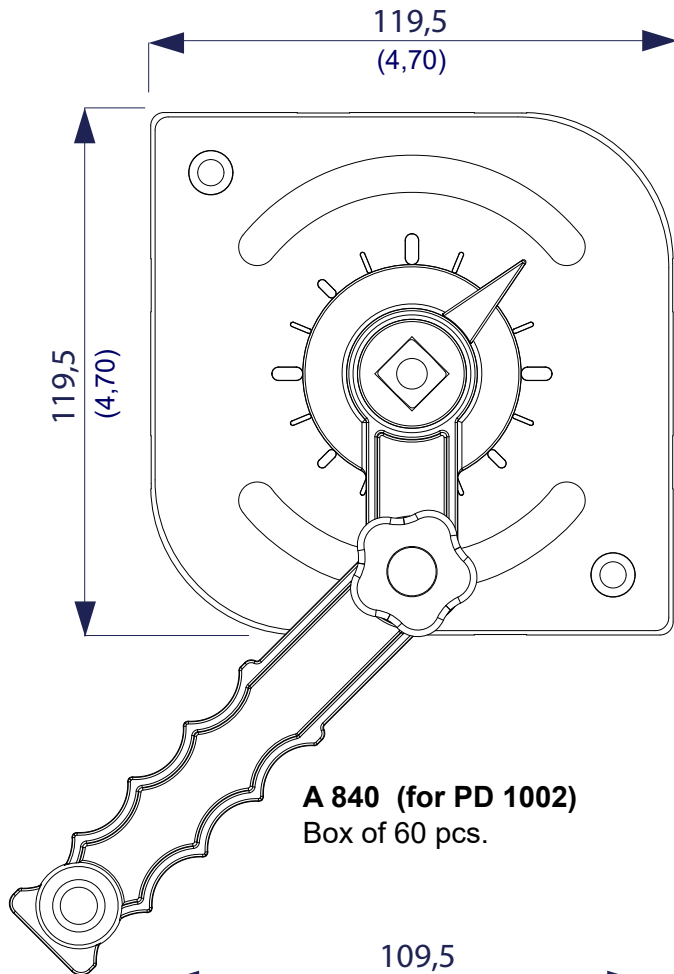
PD 1003

Weight kg/m 1,994
(lb/ft 1,340)
Bundle of 3 bars

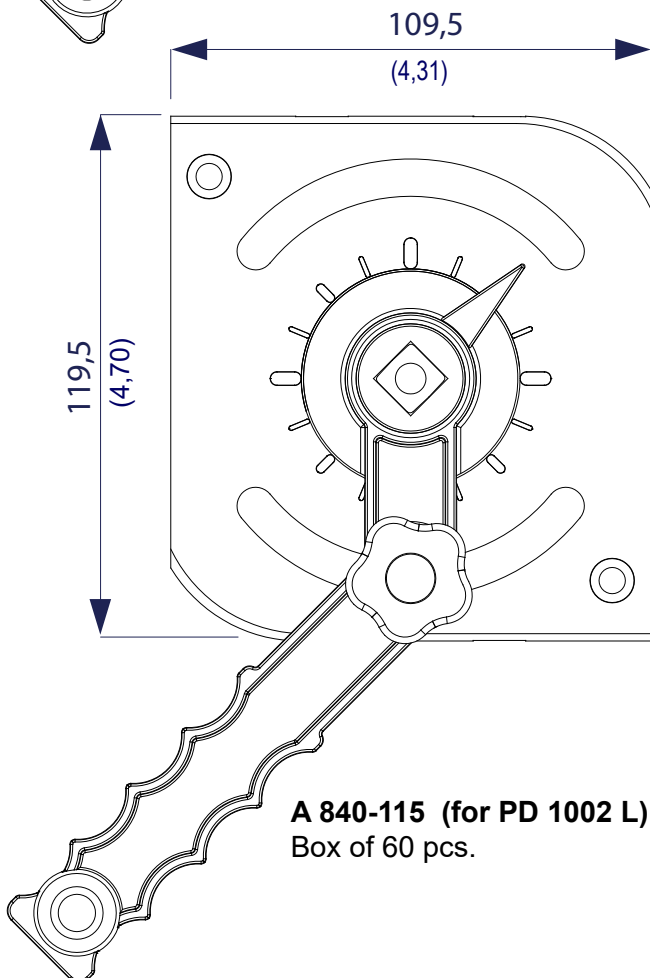


NG100
Box of 600 pcs.



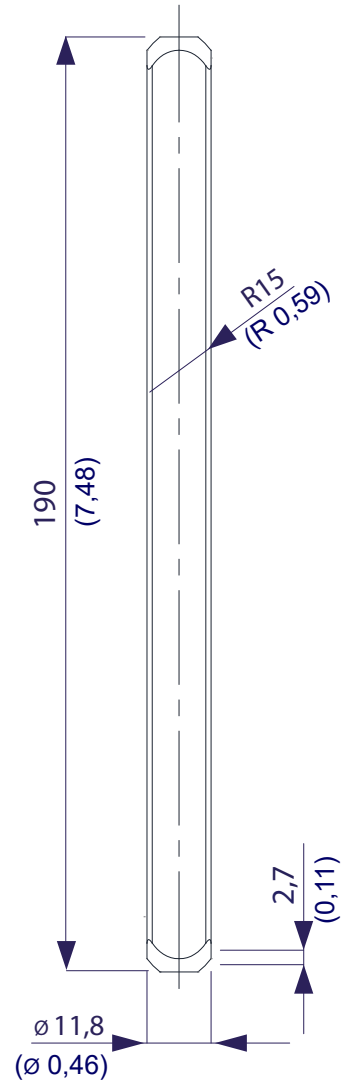


A 840 (for PD 1002)
Box of 60 pcs.

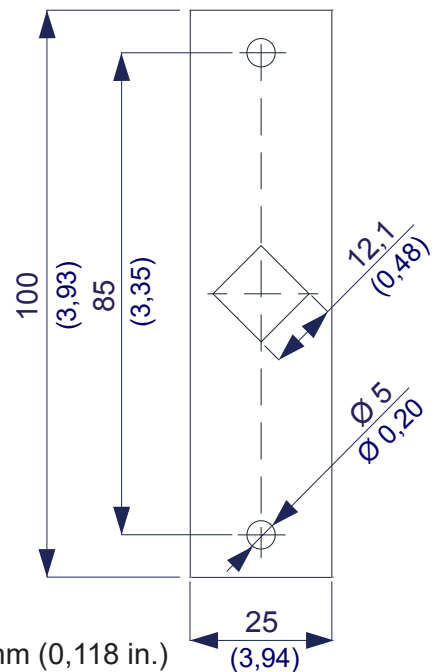


A 840-115 (for PD 1002 L)
Box of 60 pcs.

AP 190
Box of 150 pcs.

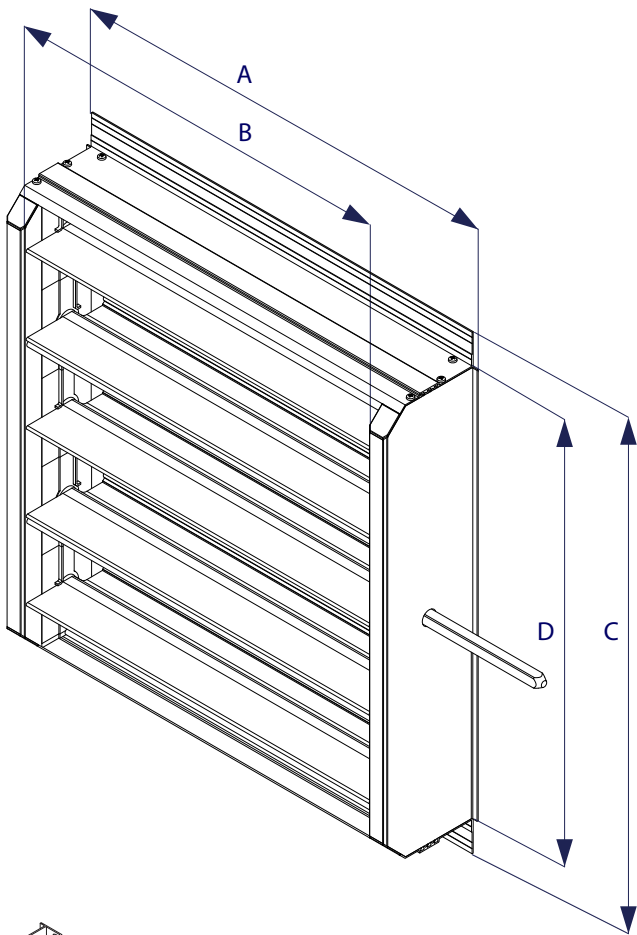


LEVERISM
DS-D 100xS12



Thickness 3 mm (0,118 in.)

3D representation of double damper



FORMULA PITCH SINGOLA

SINGLE DAMPER

$A = B - 60 \text{ mm}$

Length of BLADES = $B - 3 \text{ mm} / 2 \text{ mm}$

$C = D - 80 \text{ mm}$

D = See table below

DIMENSION FOR PROFILE "D"

$L = N^\circ \text{ blades} \times 100 \text{ mm} + 10 \text{ mm} + \text{TOLERANCES}$

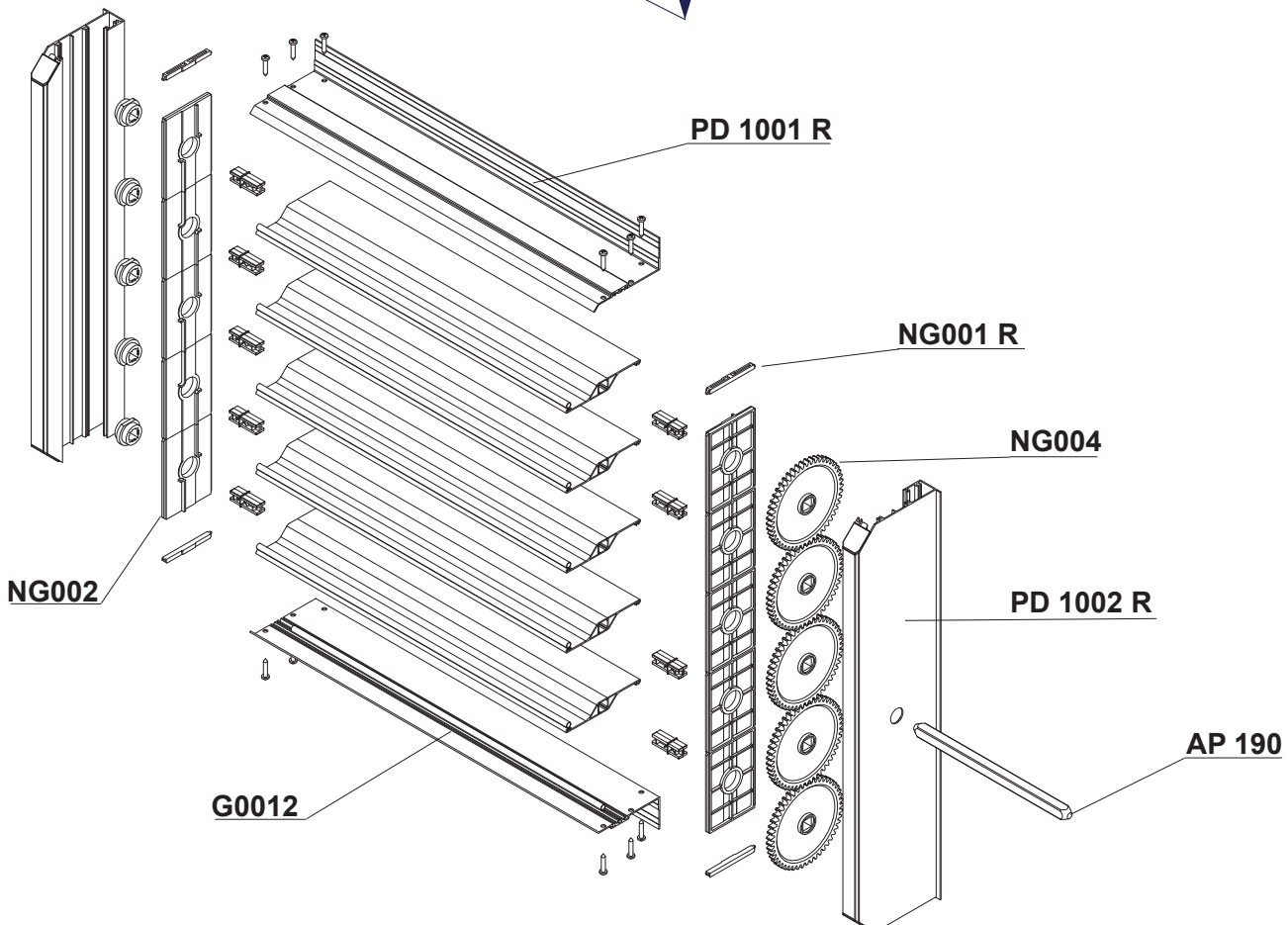
TOLERANCES

from 105 mm to 610 mm = 2 mm

from mm to 1410 mm = 3 mm

from 1410 mm to 2210 mm = 4 mm

from 2210 mm = 5 mm



3D representation of double damper

FORMULA PITCH DOPPIA

SINGLE DAMPER

$B = A - 60 \text{ mm}$

Length of BLADES

$B2 = B - (B1 + 32,5 \text{ mm})$

$= B1 - 2 \text{ mm}$

$B2 - 2 \text{ mm}$

$C = D - 80 \text{ mm}$

D = See table below

DIMENSION FOR PROFILE "D"

$L = N^{\circ} \text{ blades} \times 100 \text{ mm} + 10 \text{ mm} + \text{TOLERANCES}$

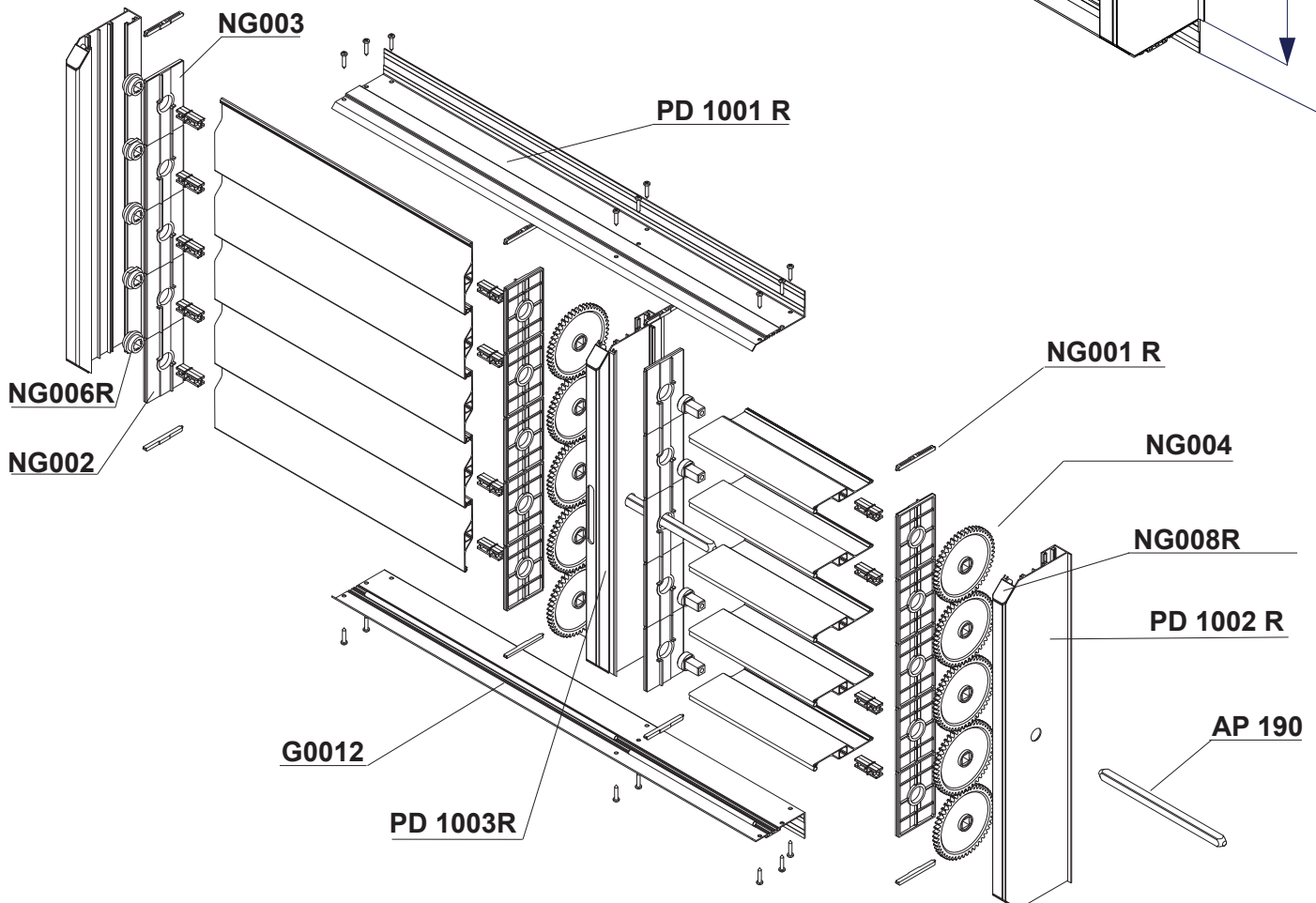
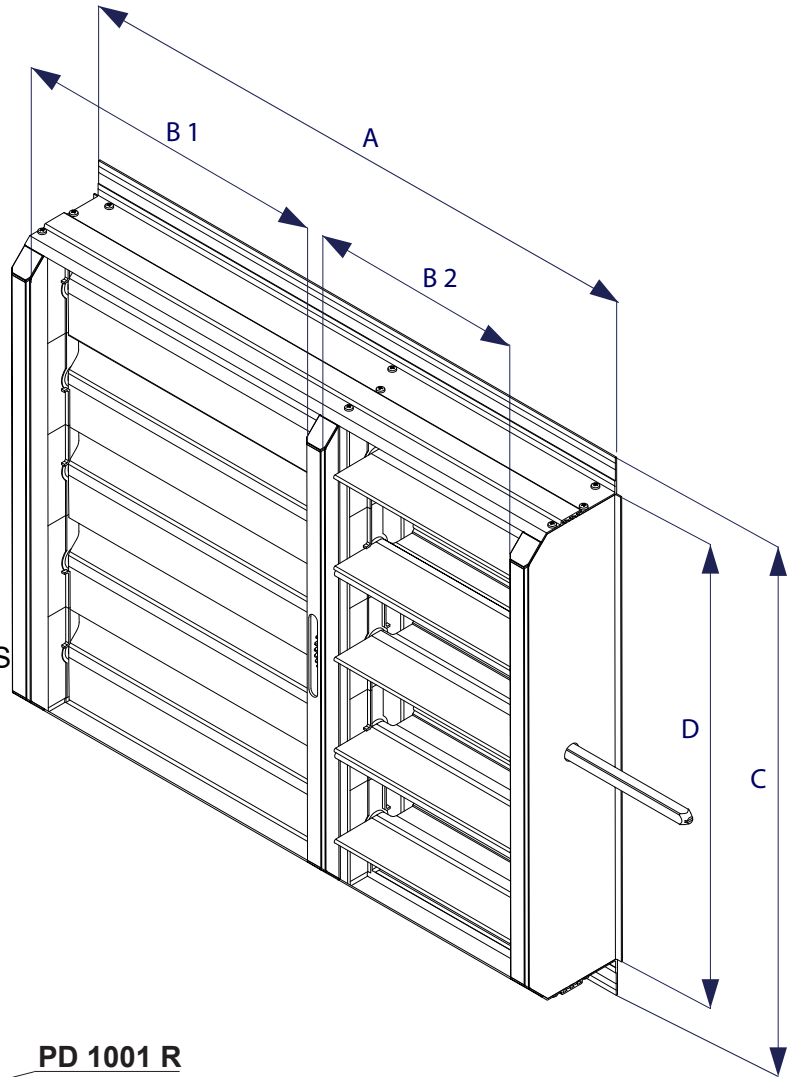
TOLERANCES

from 105 mm to 610 mm = 2 mm

from mm to 1410 mm = 3 mm

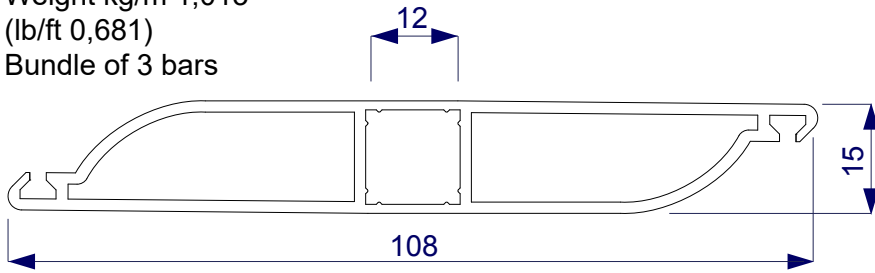
from 1410 mm to 2210 mm = 4 mm

from 2210 mm = 5 mm



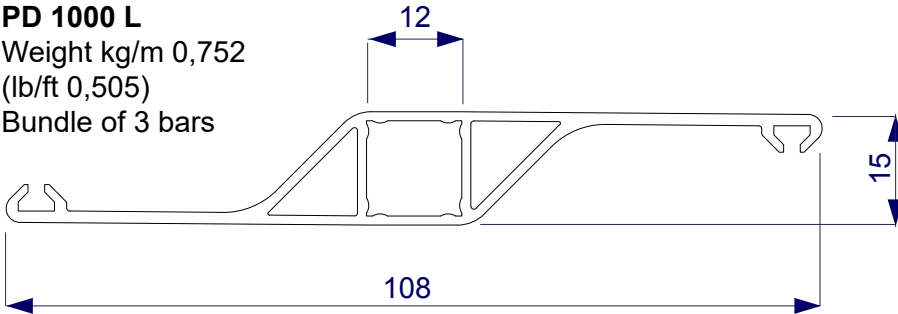
PD 1000

Weight kg/m 1,013
(lb/ft 0,681)
Bundle of 3 bars

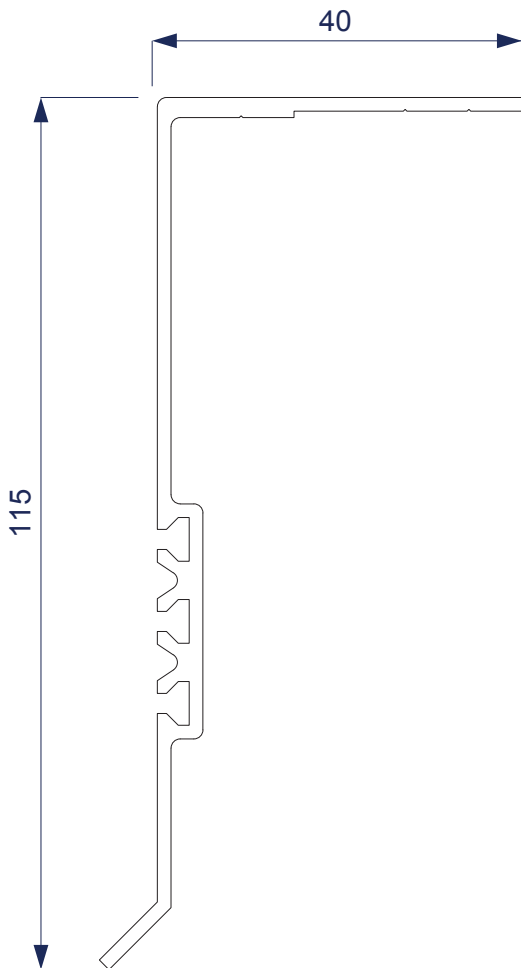
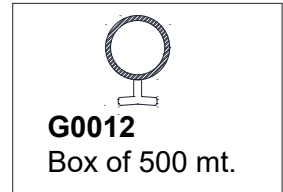


PD 1000 L

Weight kg/m 0,752
(lb/ft 0,505)
Bundle of 3 bars

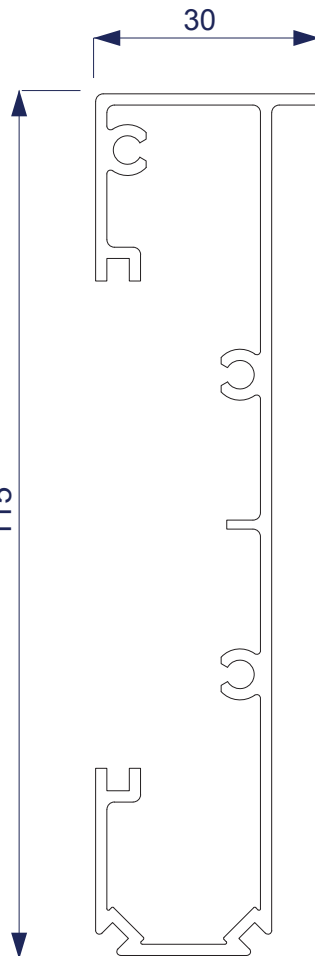


GASKET



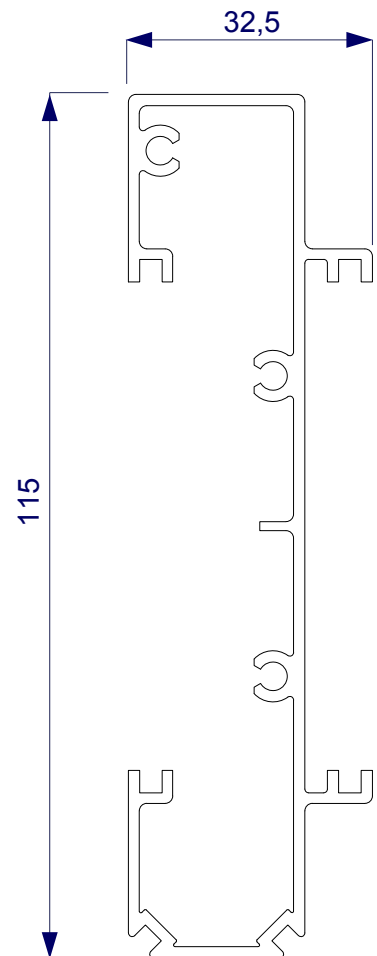
PD 1001 R

Weight kg/m 0,691
(lb/ft 0,463)
Bundle of 4 bars



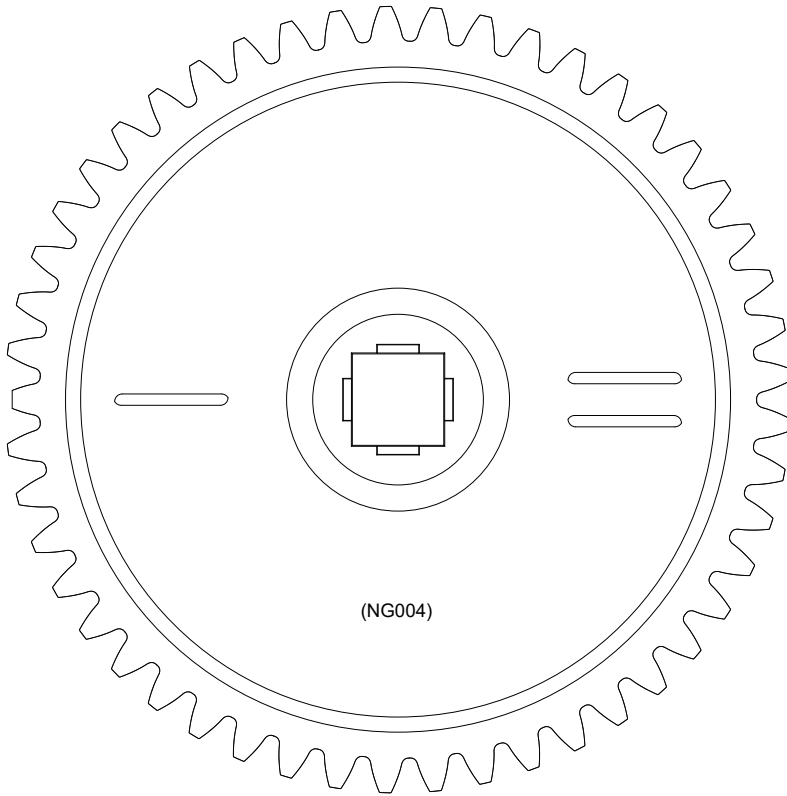
PD 1002 R

Weight kg/m 1,110
(lb/ft 0,746)
Bundle of 2 bars



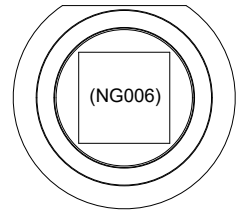
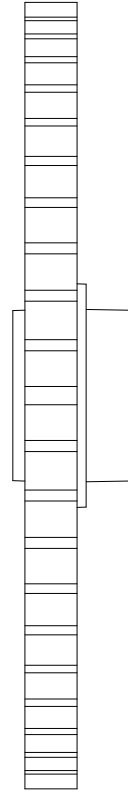
PD 1003 R

Weight kg/m 1,191
(lb/ft 0,800)
Bundle of 2 bars

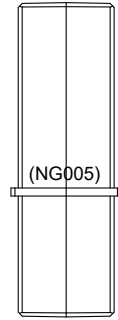


(NG004)

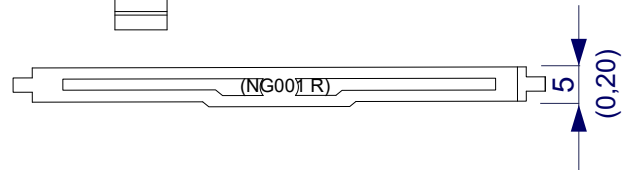
NG100 R
Box of 600 pcs.



(NG006)

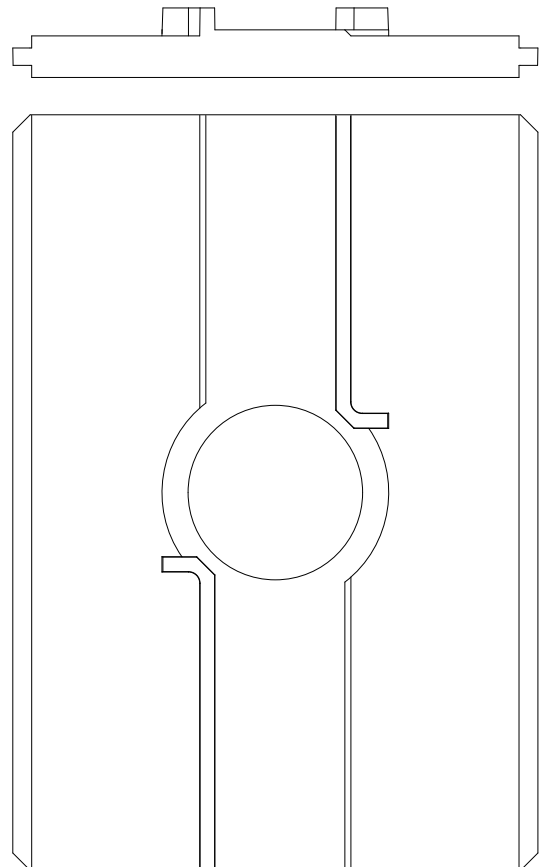
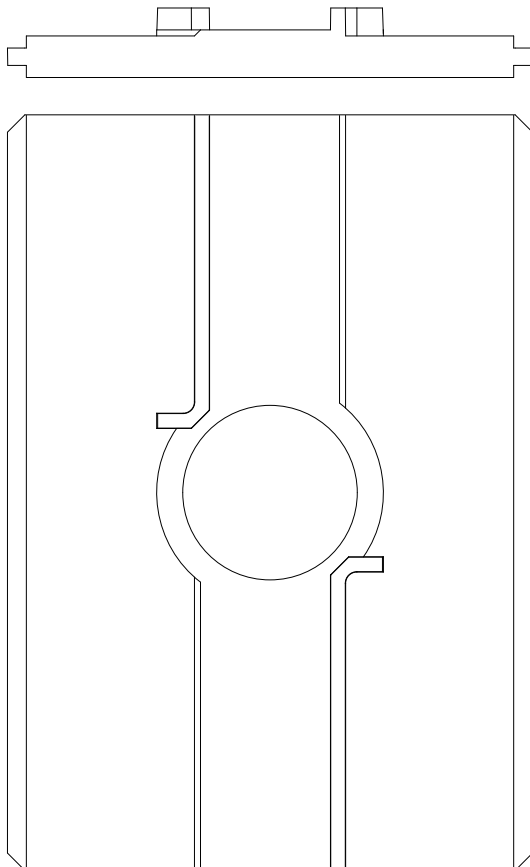


(NG005)

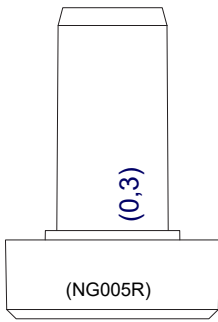


(NG001 R)

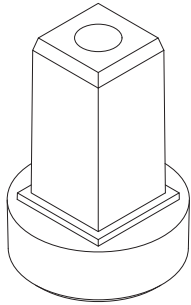
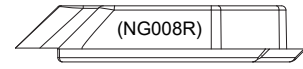
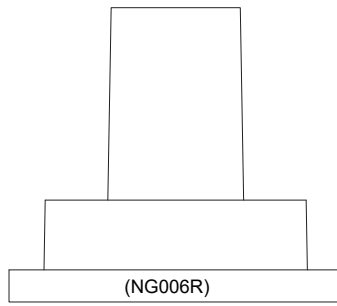
5
(0,20)



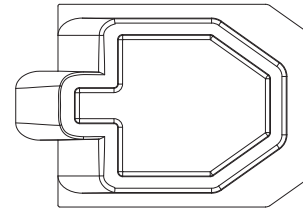
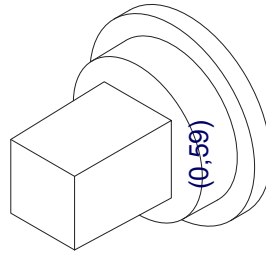
Accessori e perni



(2,11)

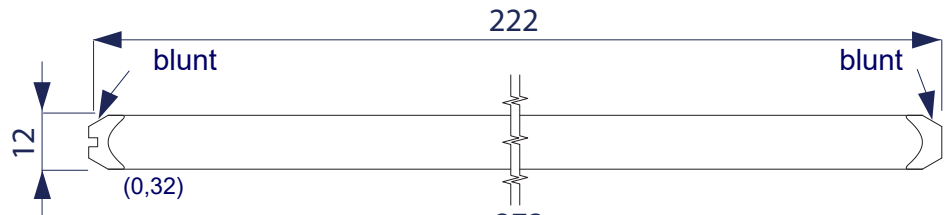


(2,76)

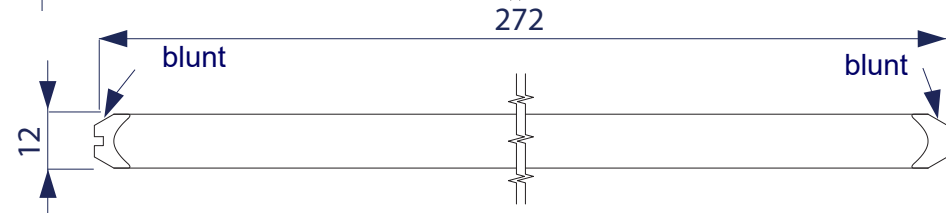


PERNI RECUPERATORE

Q 12X12 L=222

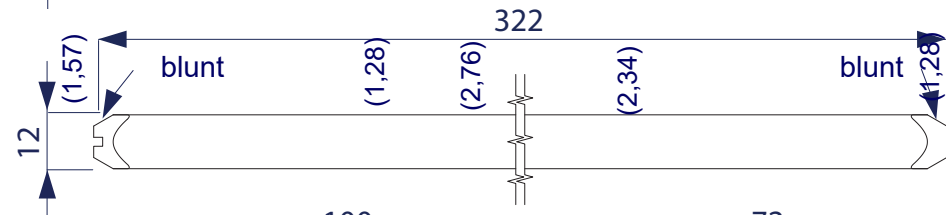


Q 12X12 L=272



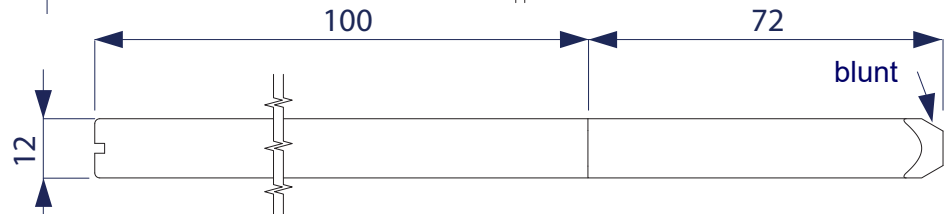
Q 12X12 L=322

(2,76)



(2,76)

Ø Q 12X12 L=172



(0,79)

Ø Q 12X12 L=222

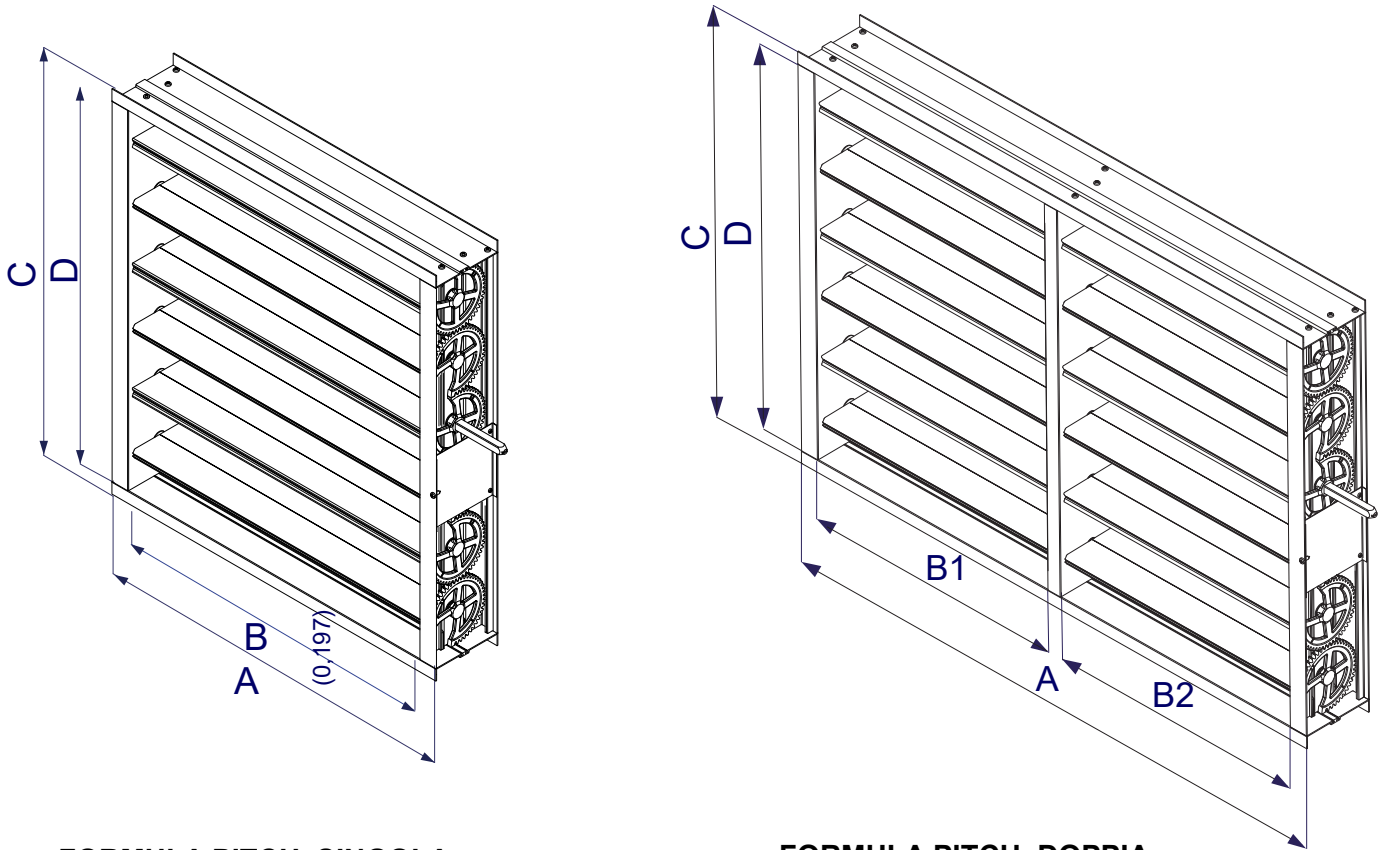


Ø Q 12X12 L=322



DRAWINGS NOT TO SCALE

3D representation of double damper



FORMULA PITCH SINGOLA

$$A = B + 60 \text{ mm}$$

$$= B - 2 \text{ mm}$$

$$C = D + 40 \text{ mm}$$

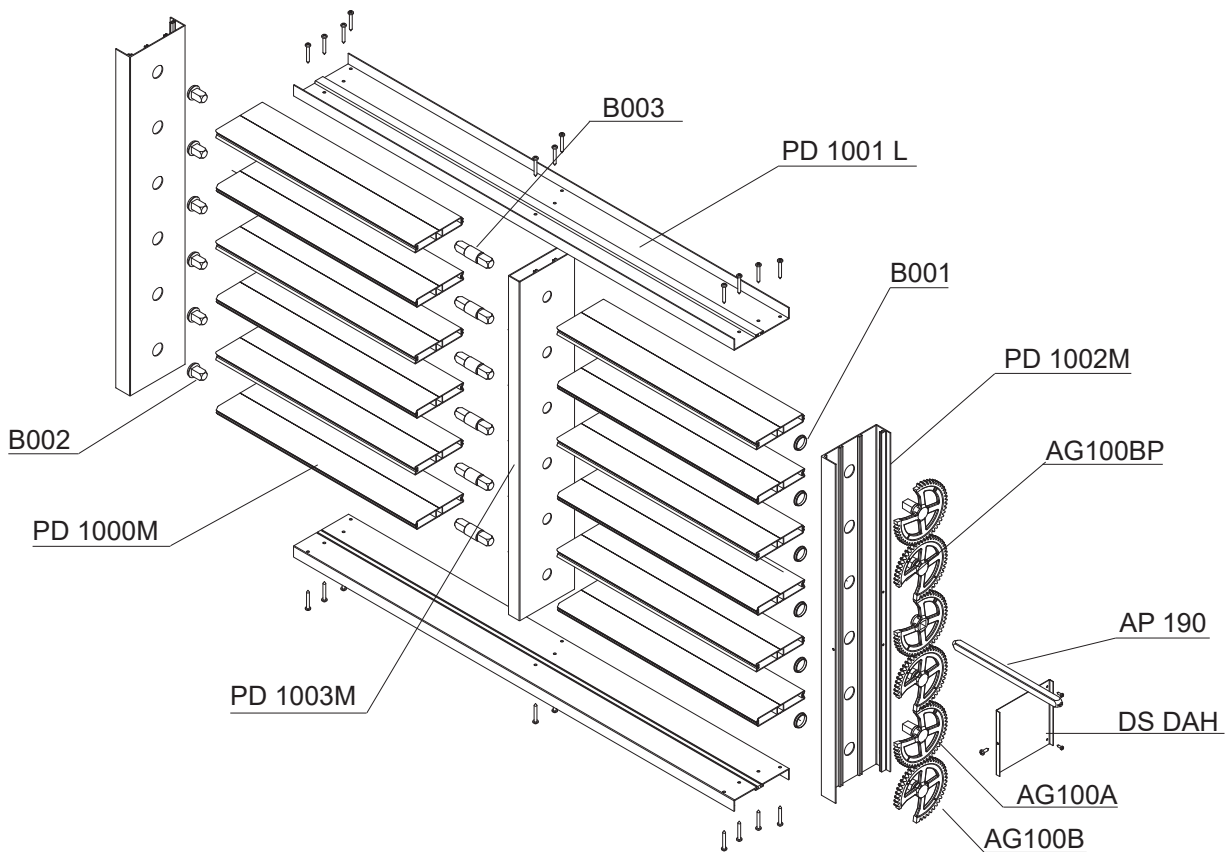
FORMULA PITCH DOPPIA

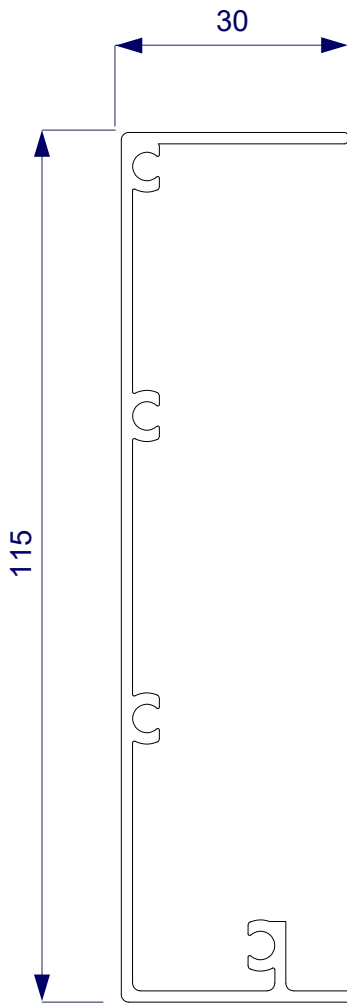
SINGLE DAMPER

$$A = B1 + B2 + 60 \text{ mm} + 23,5 \text{ MM}$$

$$= B1 \text{ O } (B2) - 2 \text{ mm}$$

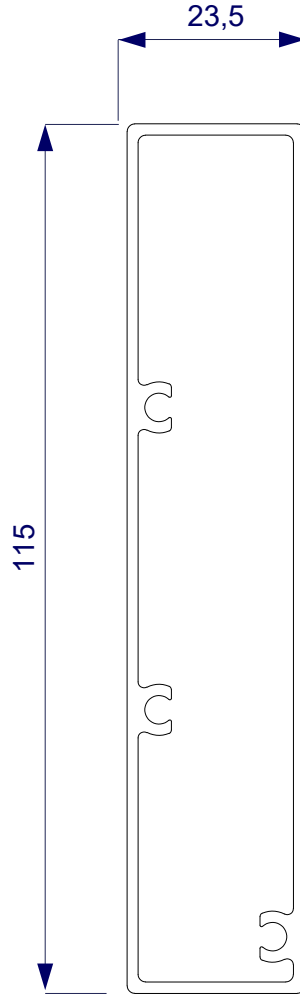
$$C = D + 40 \text{ mm}$$





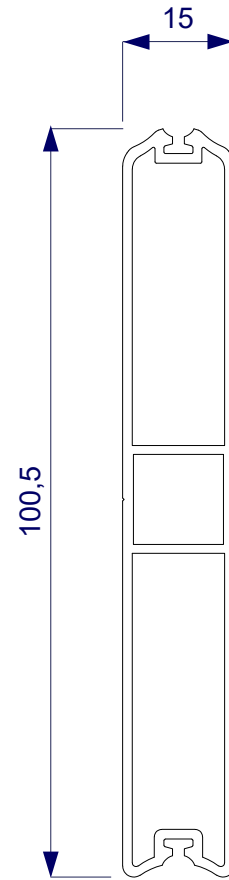
PD 1002MS

Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars



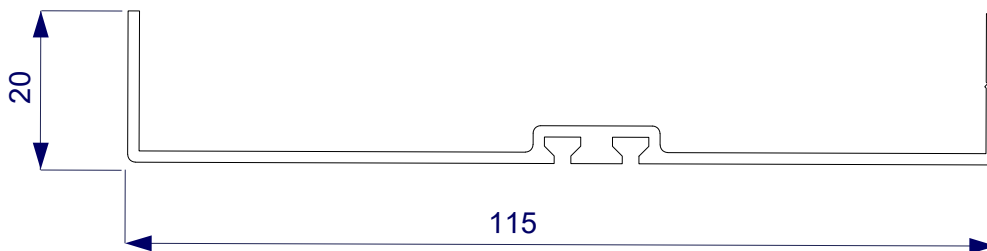
PD 1003M

Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars



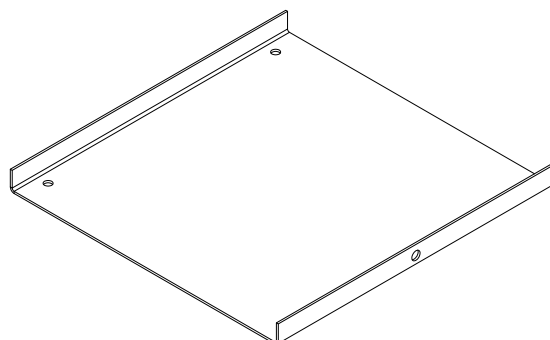
PD 1000M

Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars

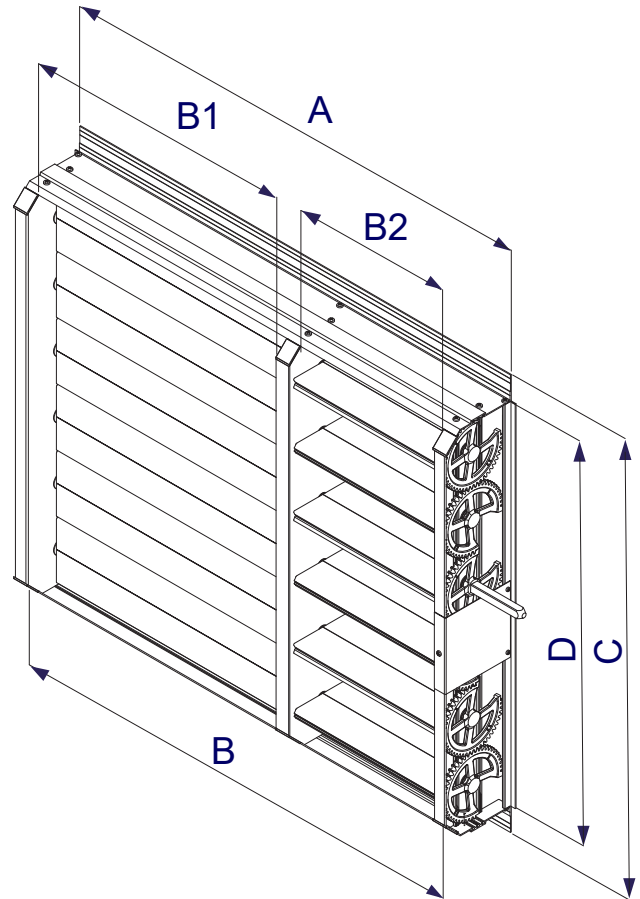
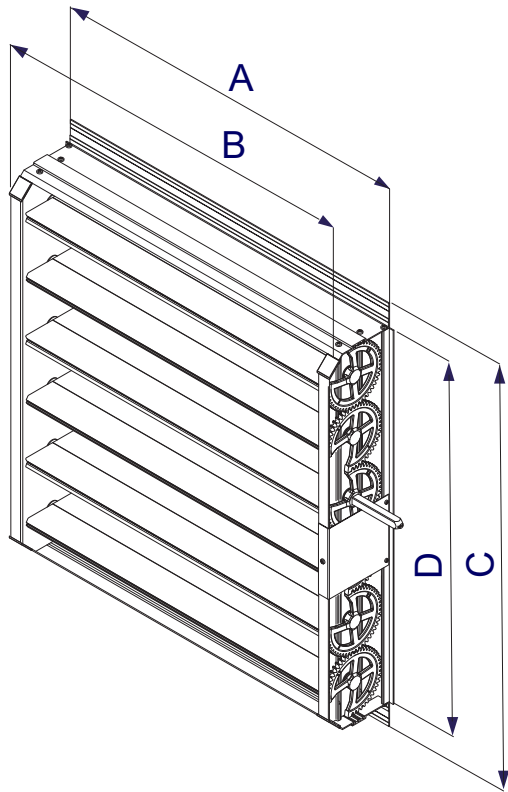


PD 1001L

Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars



DS DAH

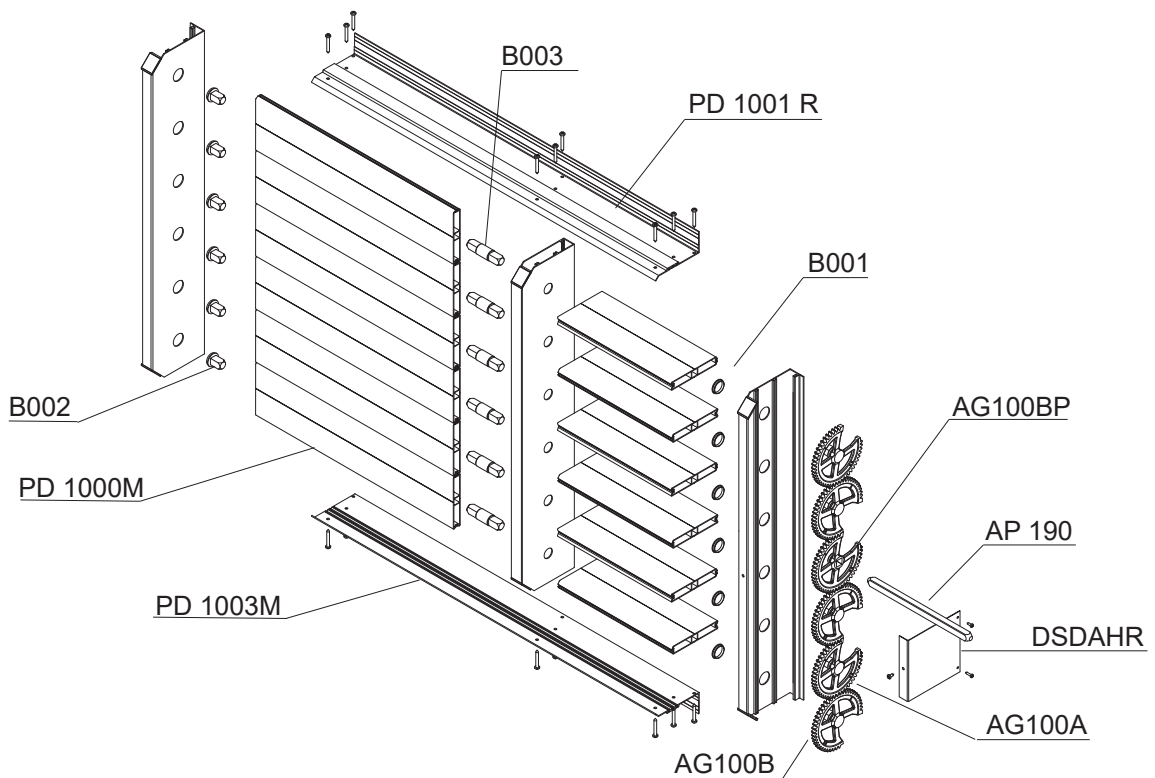


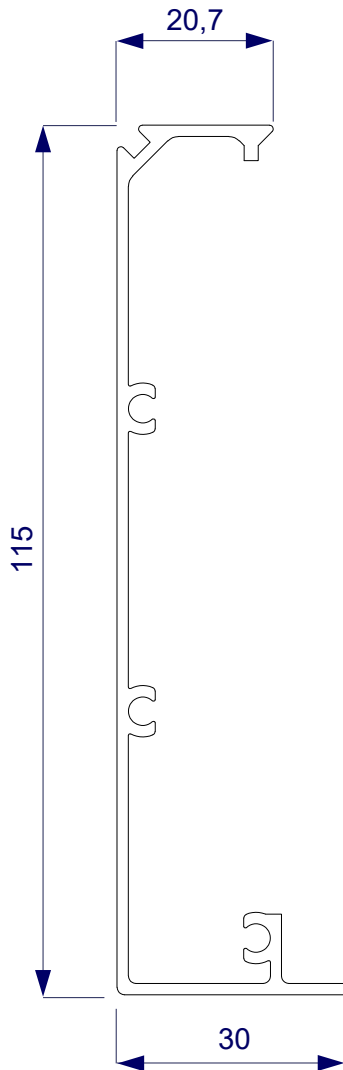
FORMULA PITCH SINGOLA

$A = B + 60 \text{ mm}$
 $= B - 2 \text{ mm}$
 $C = D + 40 \text{ mm}$

FORMULA PITCH DOPPIA

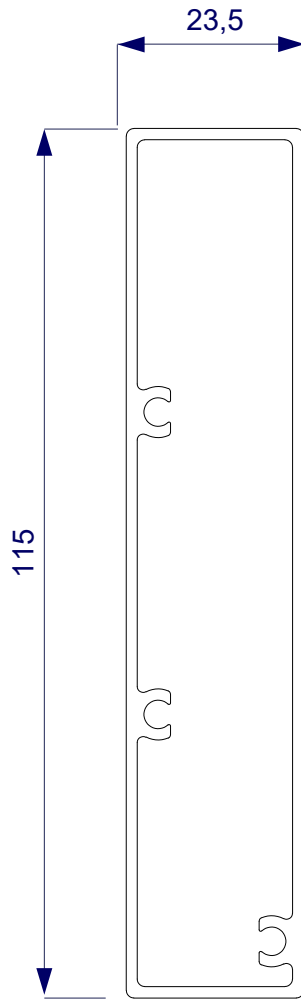
SINGLE DAMPER
 $A = B1 + B2 + 60 \text{ mm} + 23,5 \text{ MM}$
 $= B1 \text{ O } (B2) - 2 \text{ mm}$
 $C = D + 80 \text{ mm}$





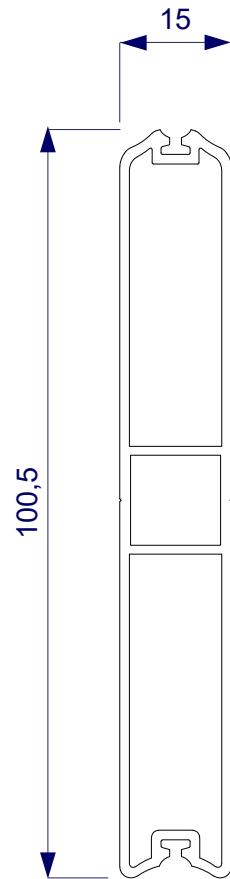
PD 1002M

Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars



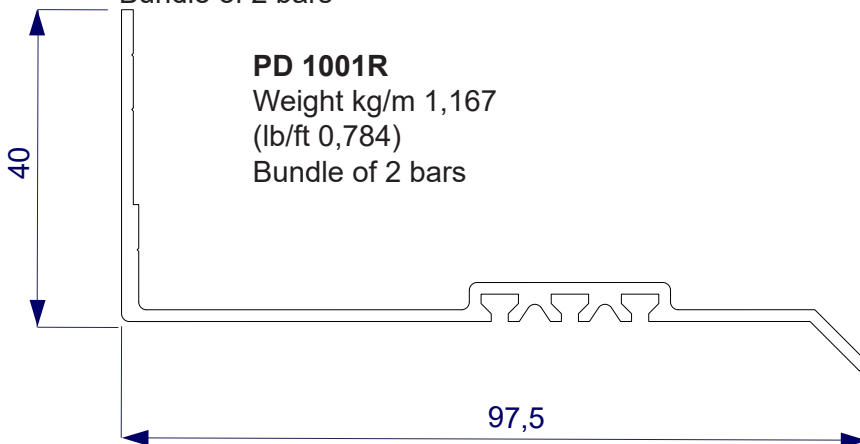
PD 1003M

Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars



PD 1000M

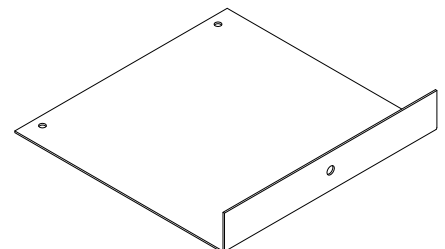
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars

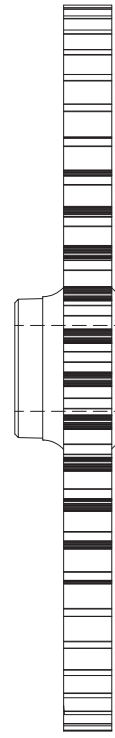
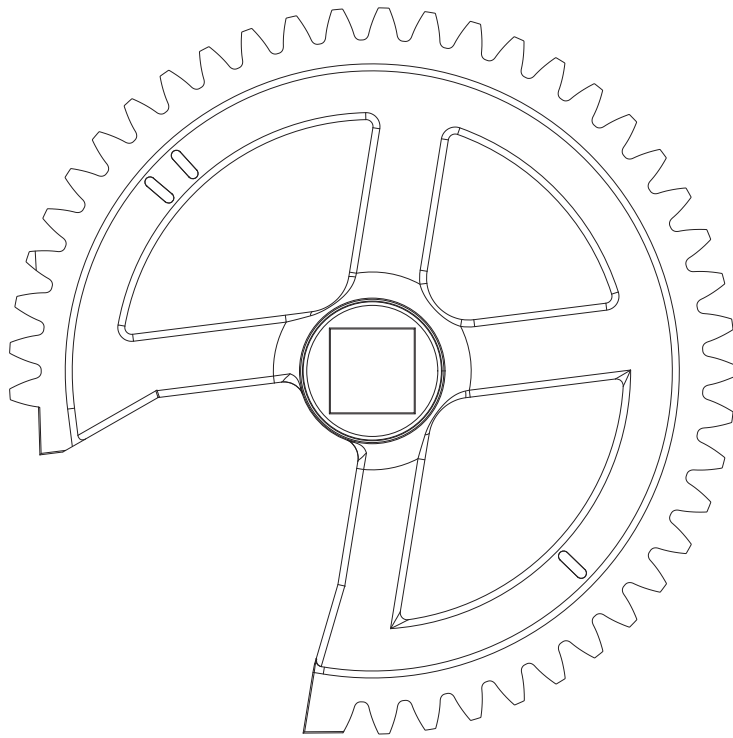


PD 1001R

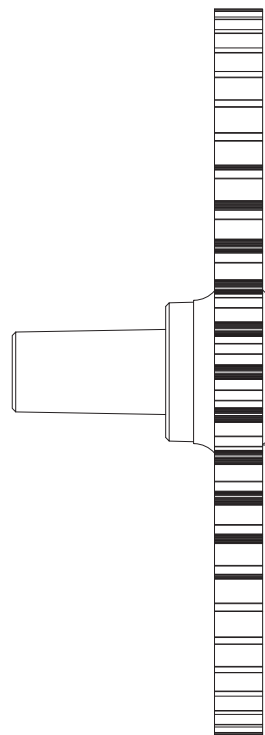
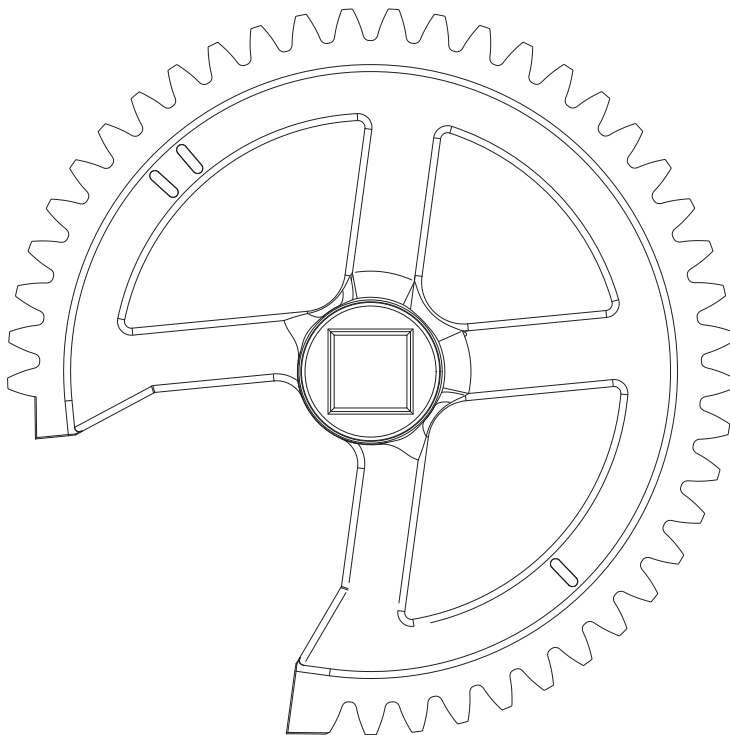
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars

DSDAHR

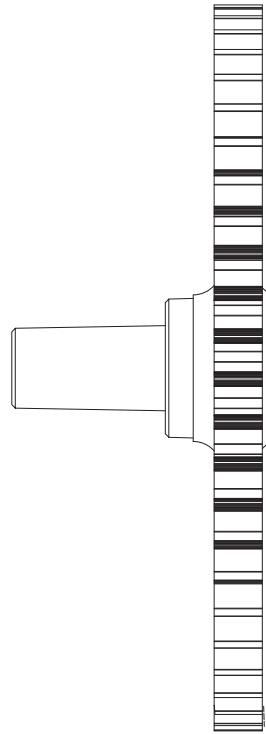
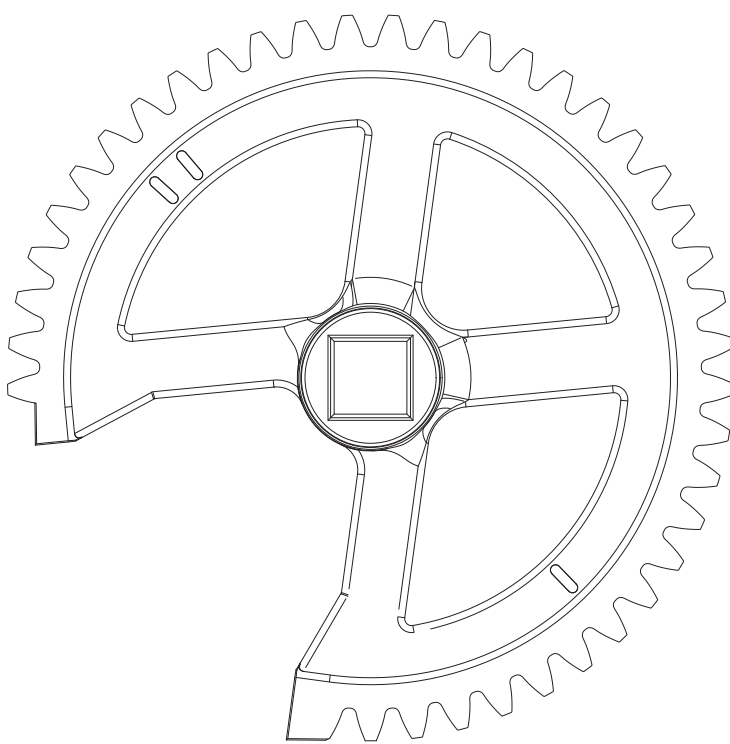




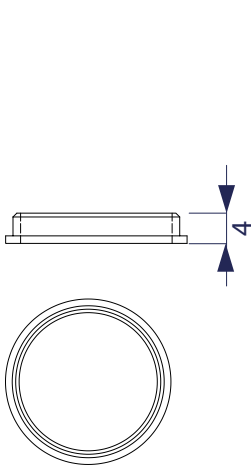
AG 100BP
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars



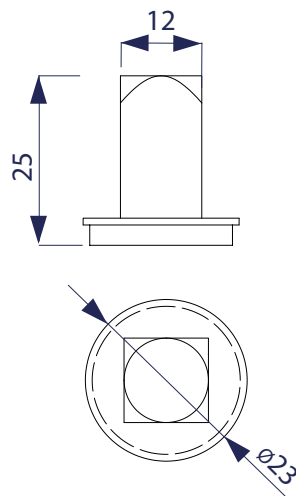
AG 100 A
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars



AG 100 B
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars

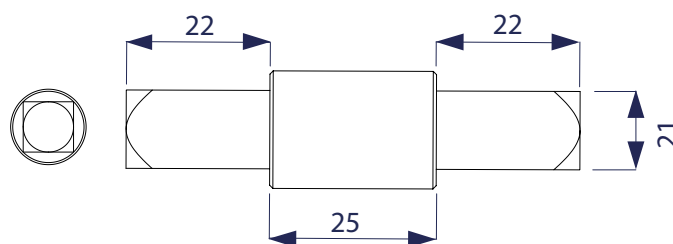
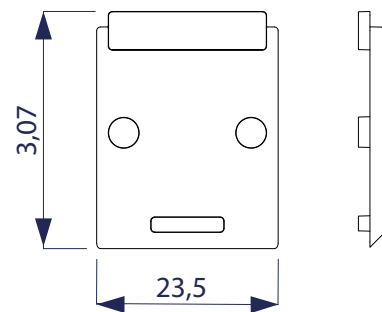


B001
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars



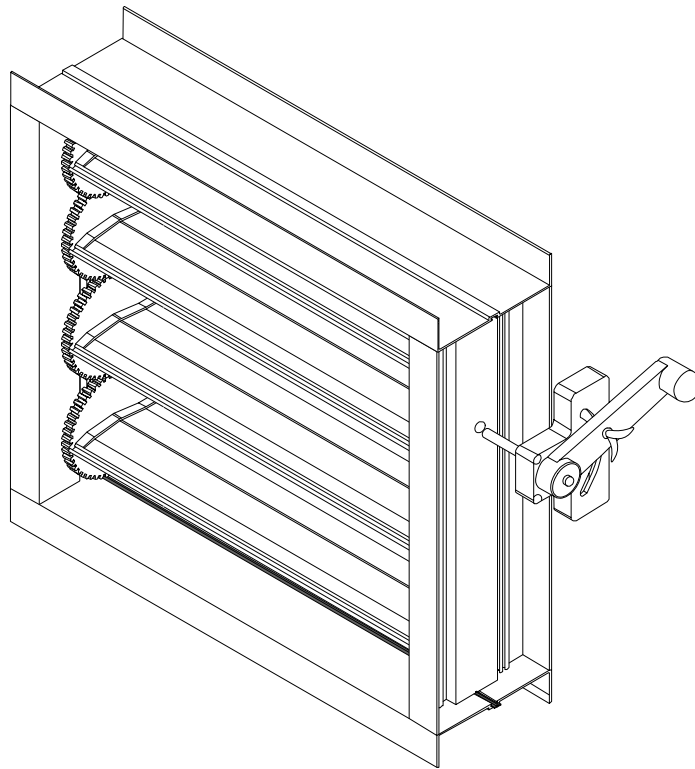
B002
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars

AG 1008
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars

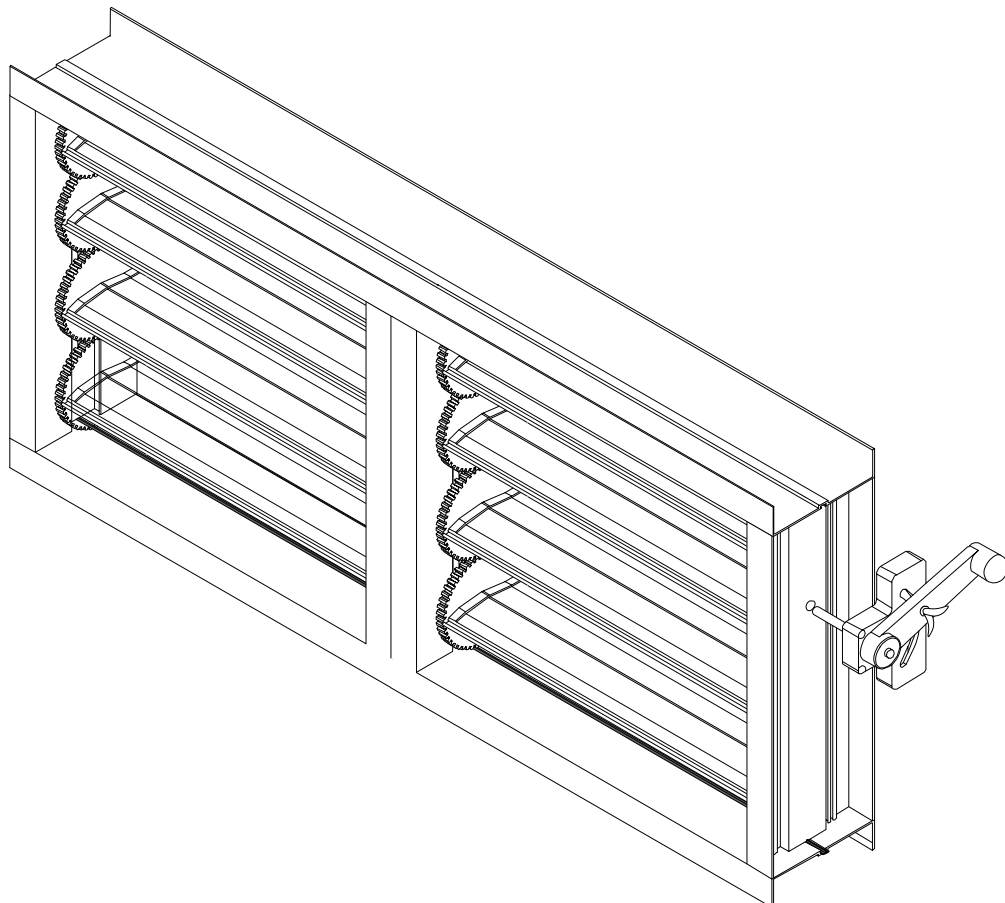


B003
PER SERRANDE
DOPPIE Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars

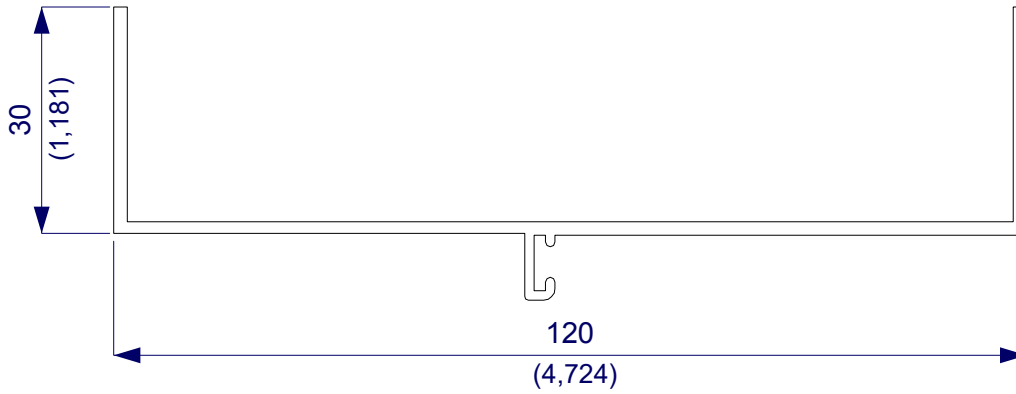
3D Representation of single damper



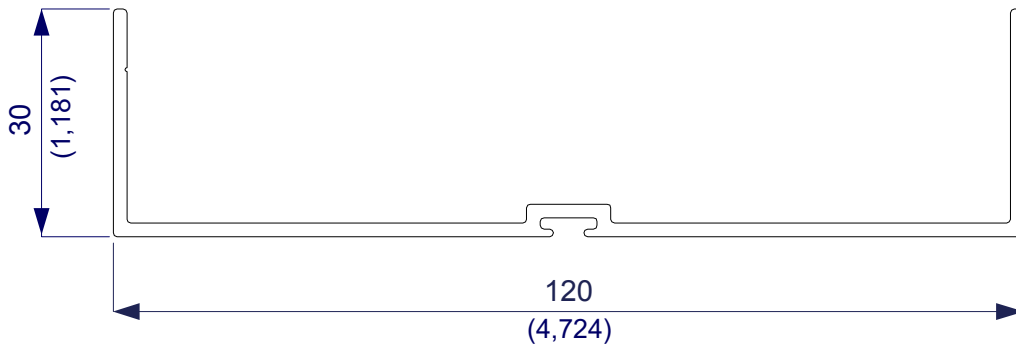
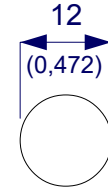
3D Representation of double damper



Aluminium profiles for single and double damper

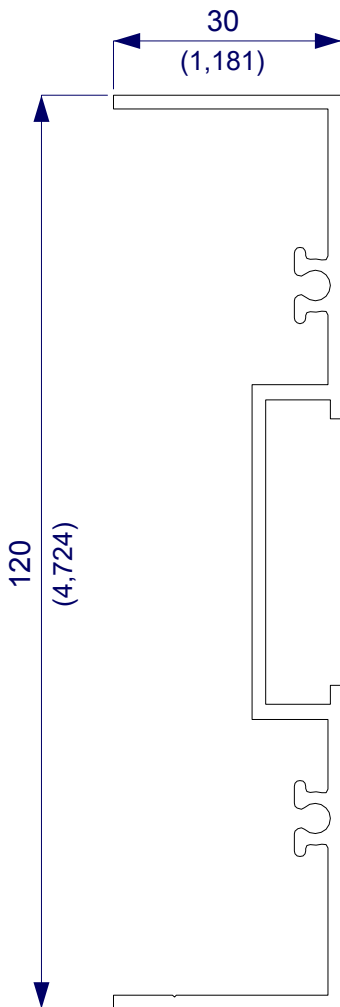


P 127
 Weight kg/m 0,873
 (lb/ft 0,587)
 Bundle of 6 bars

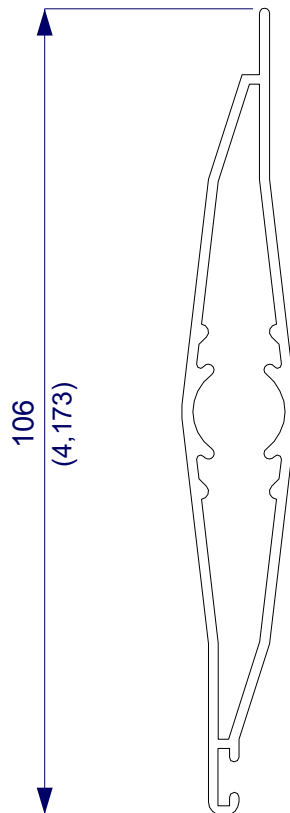


P 12
 Weight kg/m 0,312
 (lb/ft 0,210)
 Bundle of 10 bars

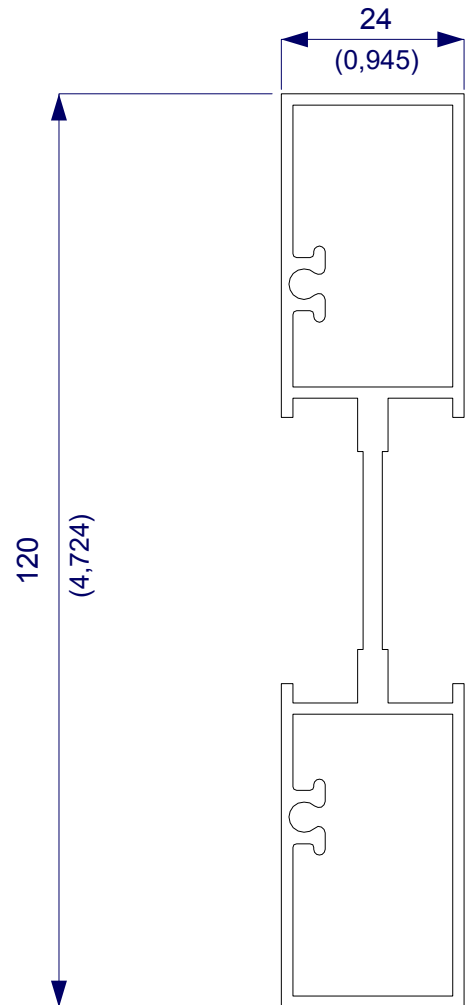
P 118
 Weight kg/m 0,917
 (lb/ft 0,616)
 Bundle of 6 bars



P 125
 Weight kg/m 1,062
 (lb/ft 0,718)
 Bundle of 6 bars

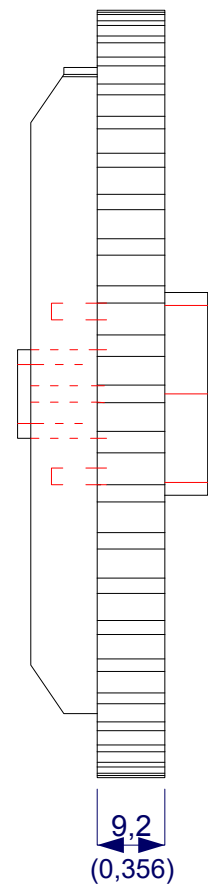
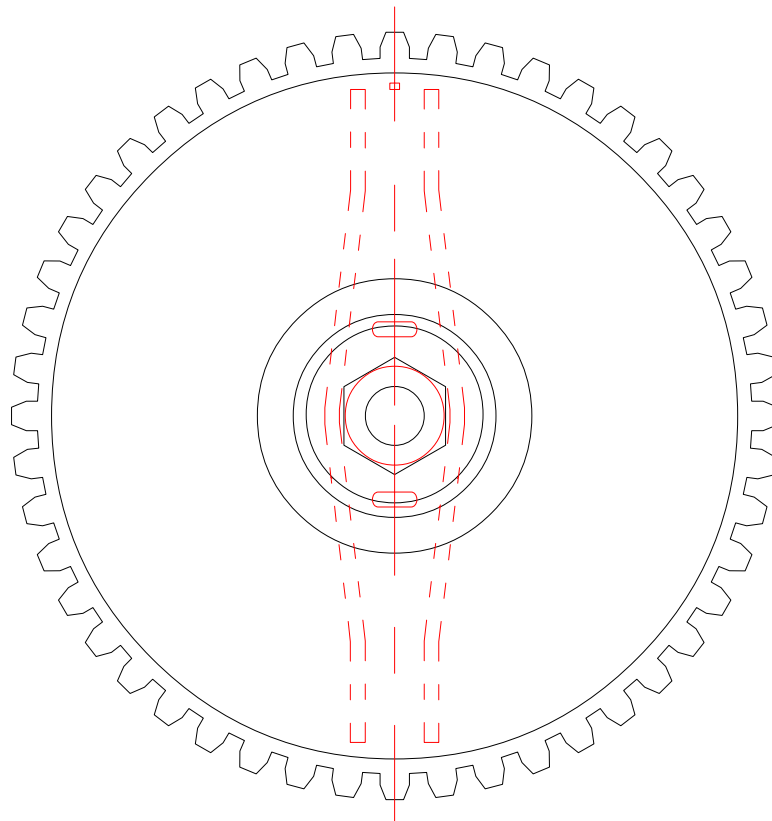
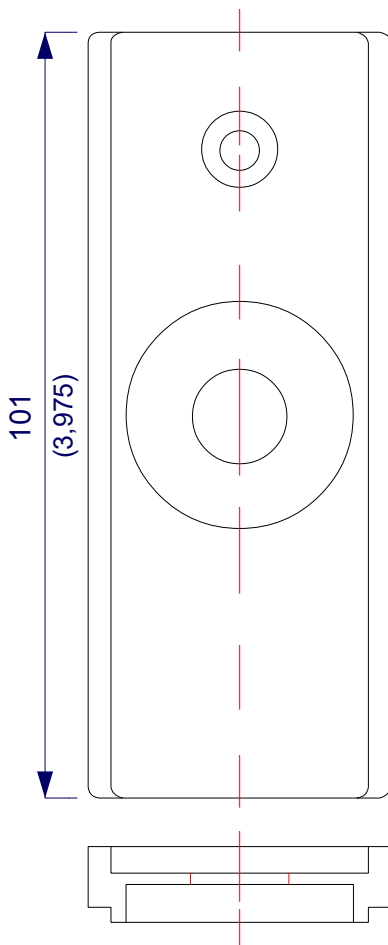


P 126
 Weight kg/m 0,842
 (lb/ft 0,566)
 Bundle of 4 bars



P 128
 Weight kg/m 1,546
 (lb/ft 1,039)
 Bundle of 4 bars

Accessories for single and double damper

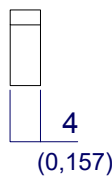


N 830
 Box of 240 pcs.

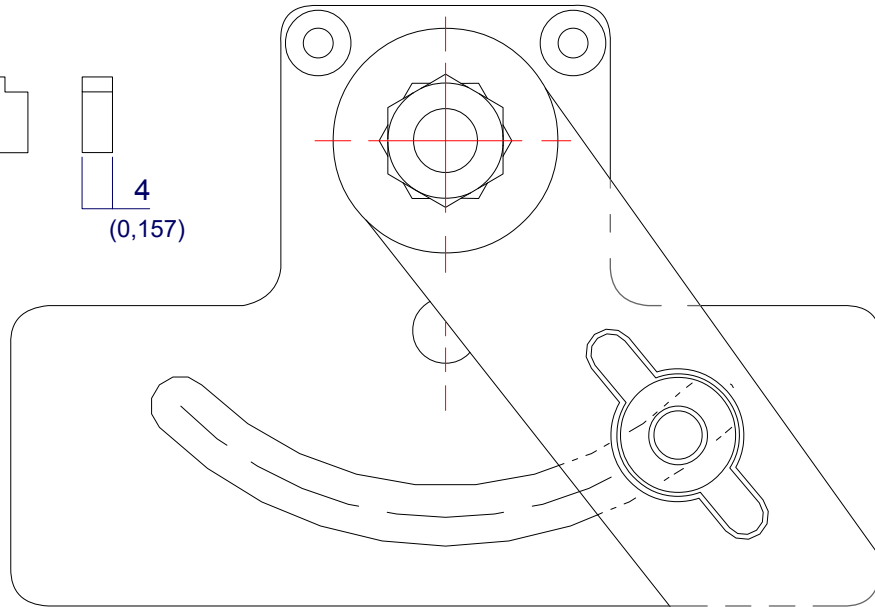
9,2
 (0,356)



N 850
 Box of 1.500 pcs.



4
 (0,157)

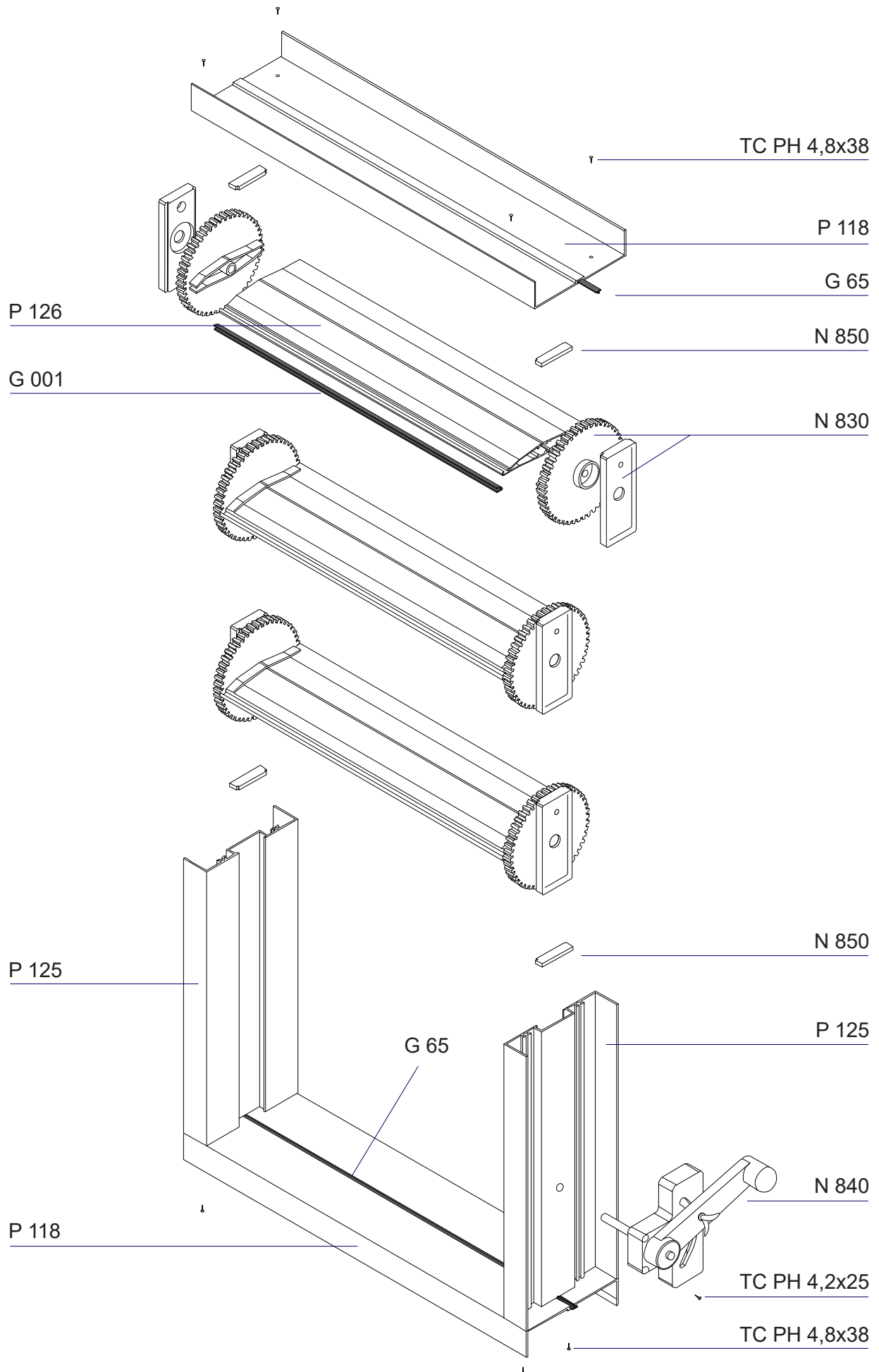


N 840
 Box of 50 pcs.

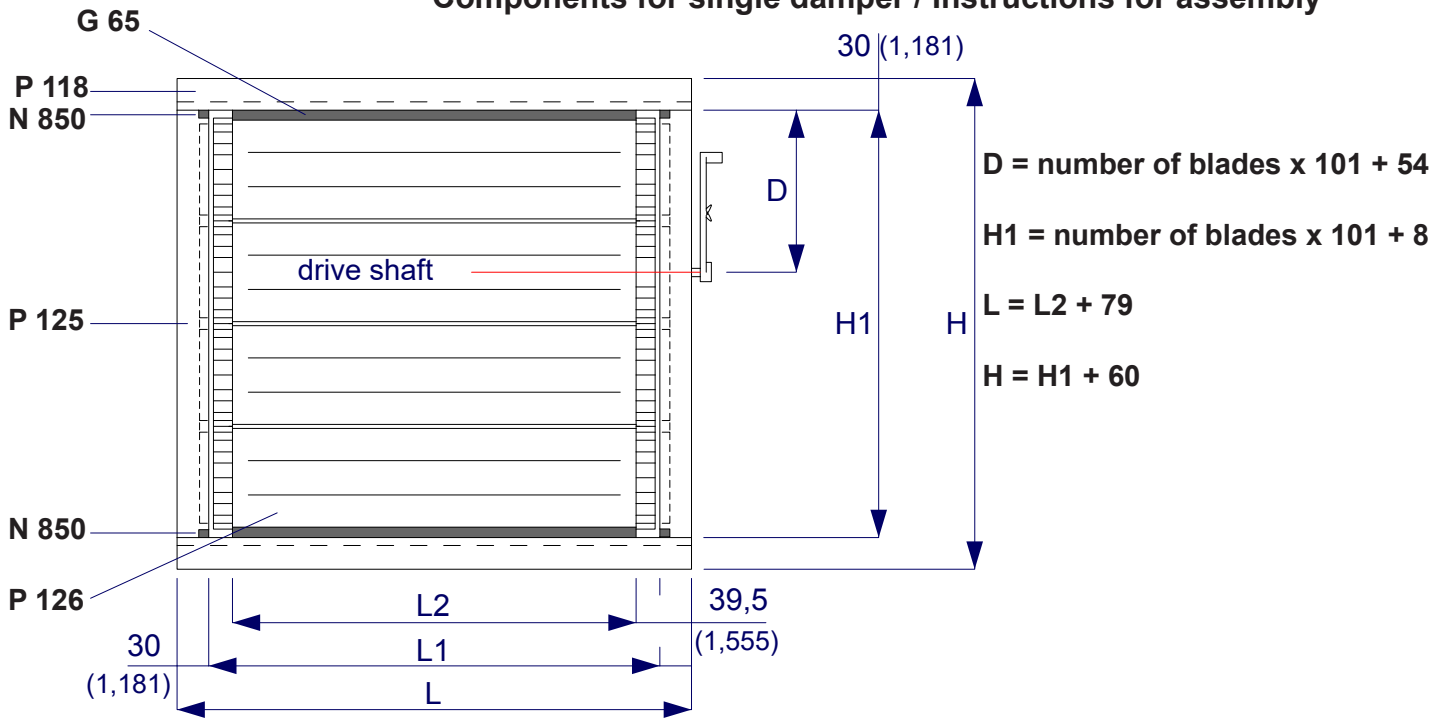
GASKET

<p>G001 Box of 500 mt.</p>
<p>G65 Box of 400 mt.</p>

3D representation of single damper



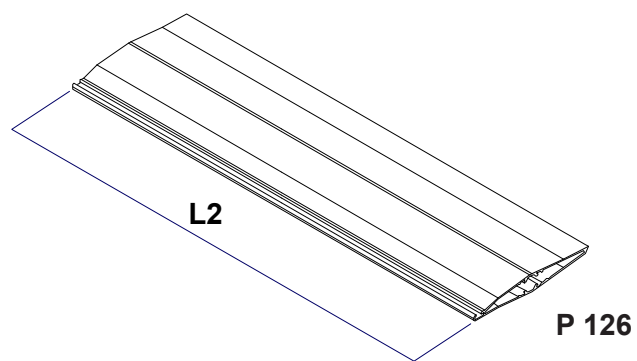
Components for single damper / Instructions for assembly



$D = \text{number of blades} \times 101 + 54$
 $H1 = \text{number of blades} \times 101 + 8$
 $L = L2 + 79$
 $H = H1 + 60$

1

Depending on the size of the ventilation opening, determine the width **L2** and the number of blades **P 126**



3

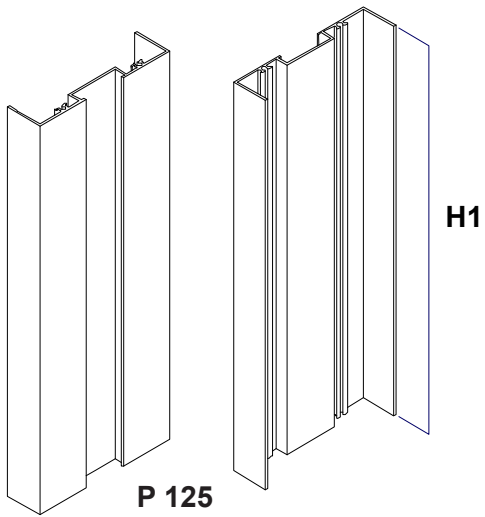
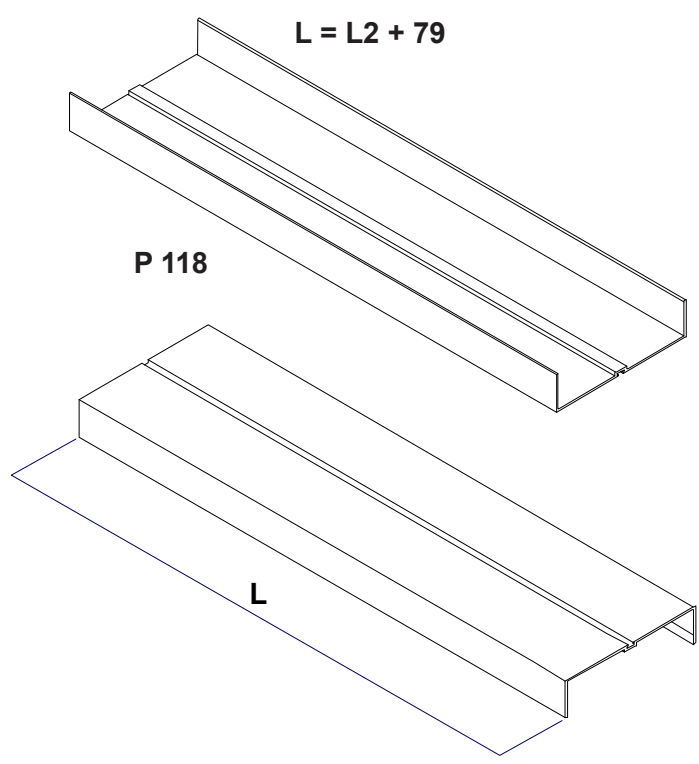
Cut 2 end pieces **P 118** (top and bottom) to a length of:

$L = L2 + 79$

2

Cut 2 upright **P 125** to a size of:

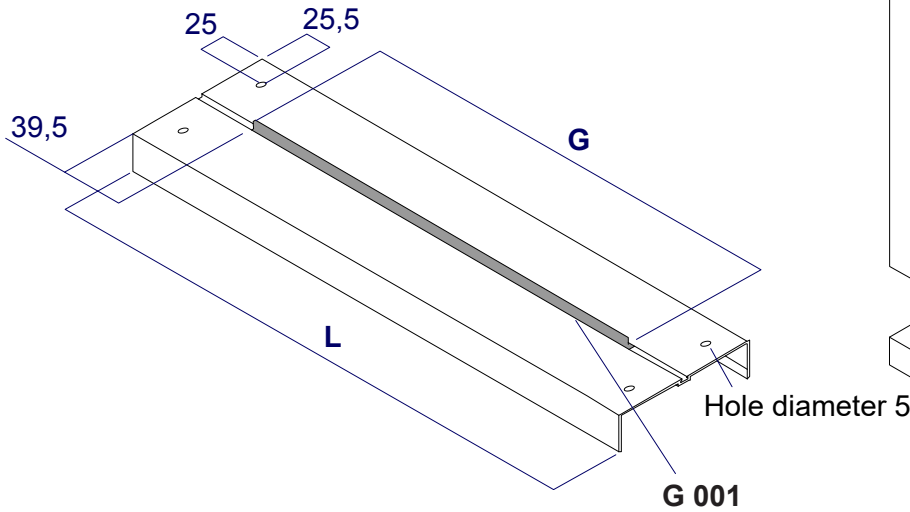
$H1 = \text{number of slats} \times 101 + 8$



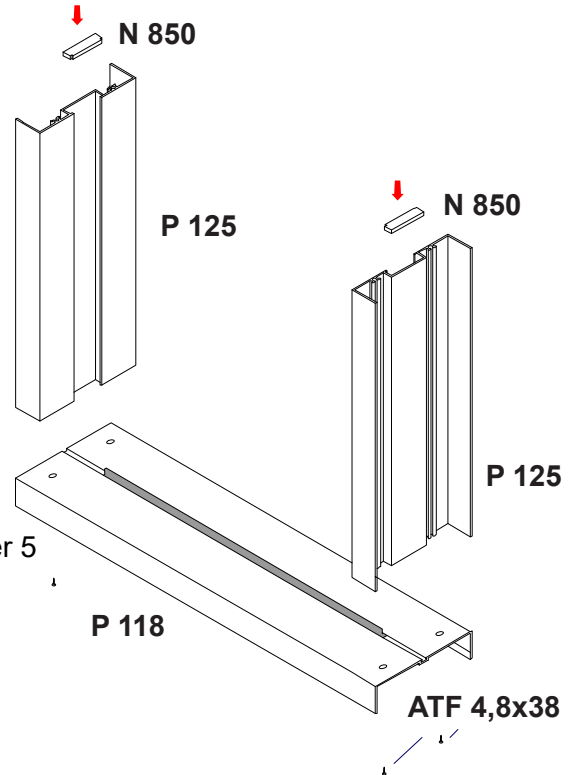
Components for single damper / Instructions for assembly

4 Drill 4 holes $\varnothing 5$ mm on both ends of **P 118** as shown in the picture, then insert gasket **G 65** which should have a length of:

$$G = L - (39,5 \times 2)$$

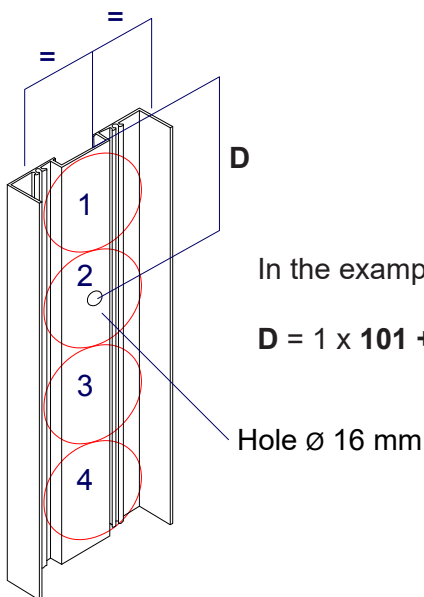


6 Using 4 self-tapping screws **ATF 4,8x38** fit bottom bar **P 118** to the 2 uprights **P 125**. Remember to insert **N 850** 4 mm thick.



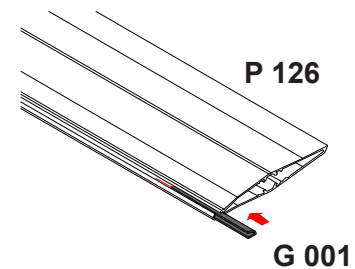
5 Drill 1 hole $\varnothing 16$ mm on upright **P 125** at a distance of:

D = number of slats from which to position the hole x 101 + 54

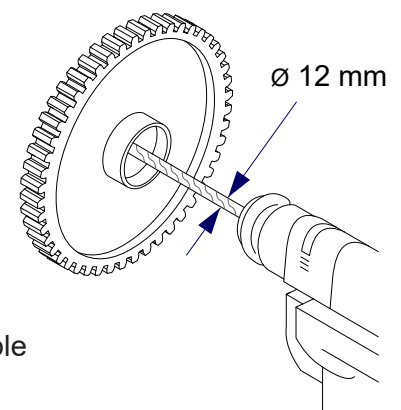


In the example:
D = 1 x 101 + 54

7 Insert gasket **G 63** into blades **P 126**.



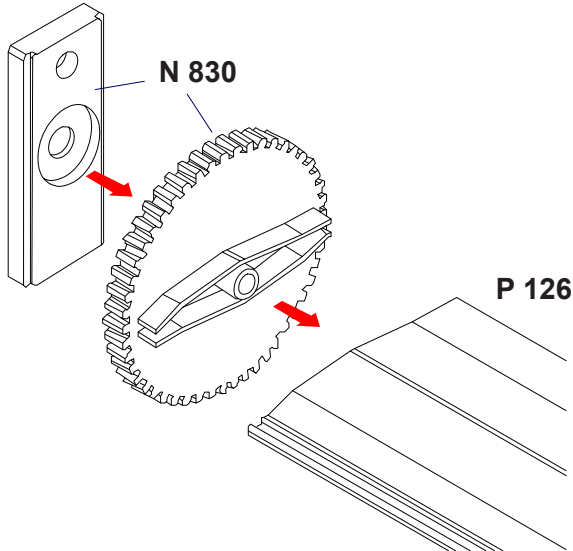
8 Drill 1 hole $\varnothing 12$ mm in one of the gears.
NOTE: During assembly, position the gear so that the hole $\varnothing 12$ mm coincides with the hole $\varnothing 16$ mm on upright **P 125**.



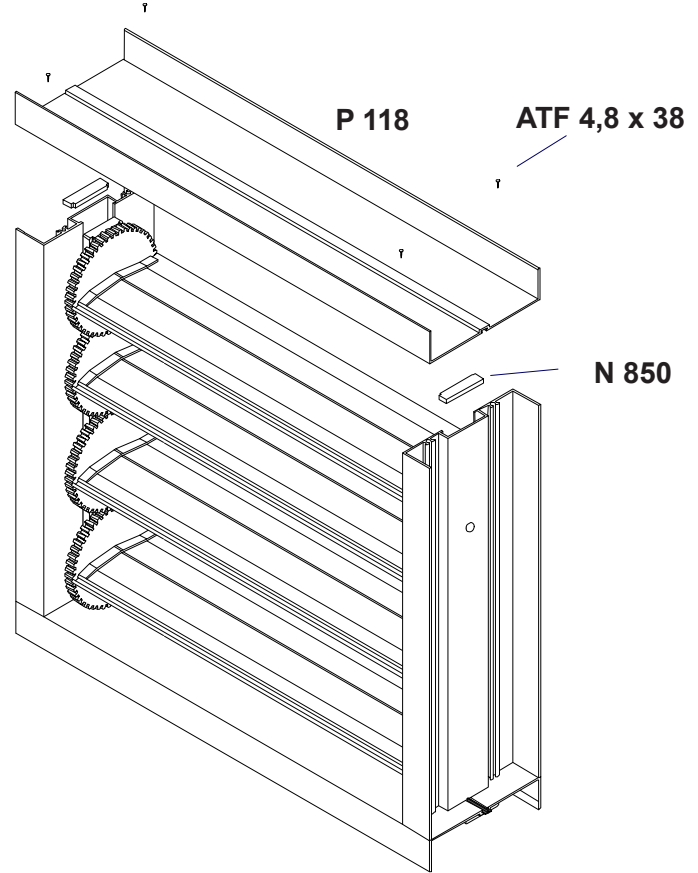
NOTE: It is advisable to keep the control mechanism as central as possible

Components for single damper / Instructions for assembly

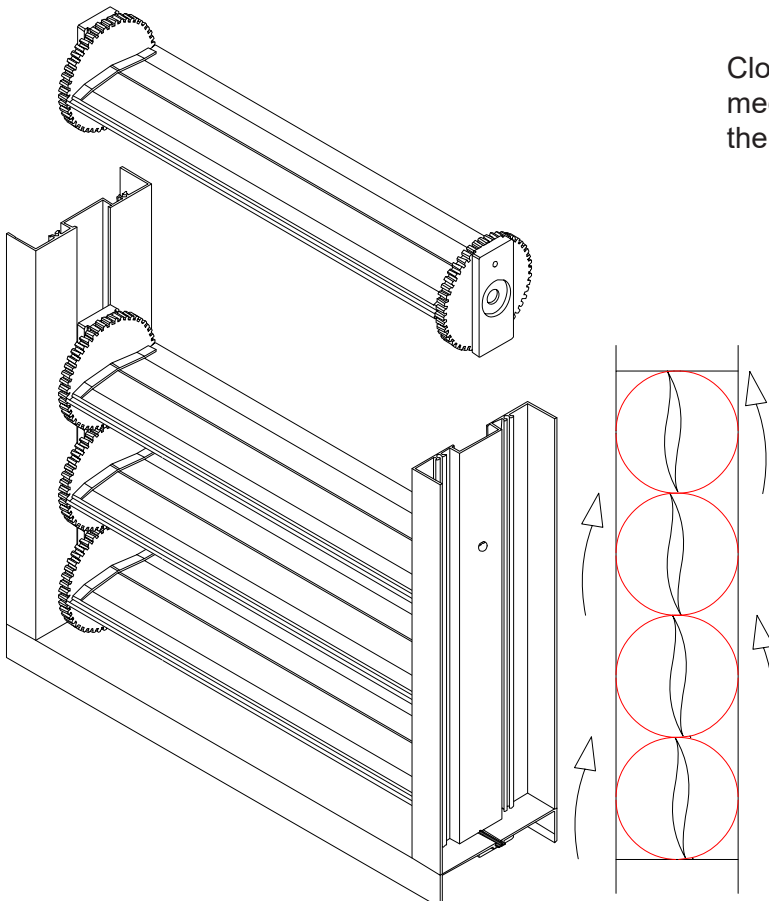
9 Insert the nylon gears in the tracks of the slats **P 126**, then mount **N 830** on the gears inspecting that they'll turn without effort.



11 Insert nylon spacer **N 850** as end of the pieces **N 830**. Then fasten top rail **P 118** with 4 self-tapping screws **ATF 4,8 x 38**

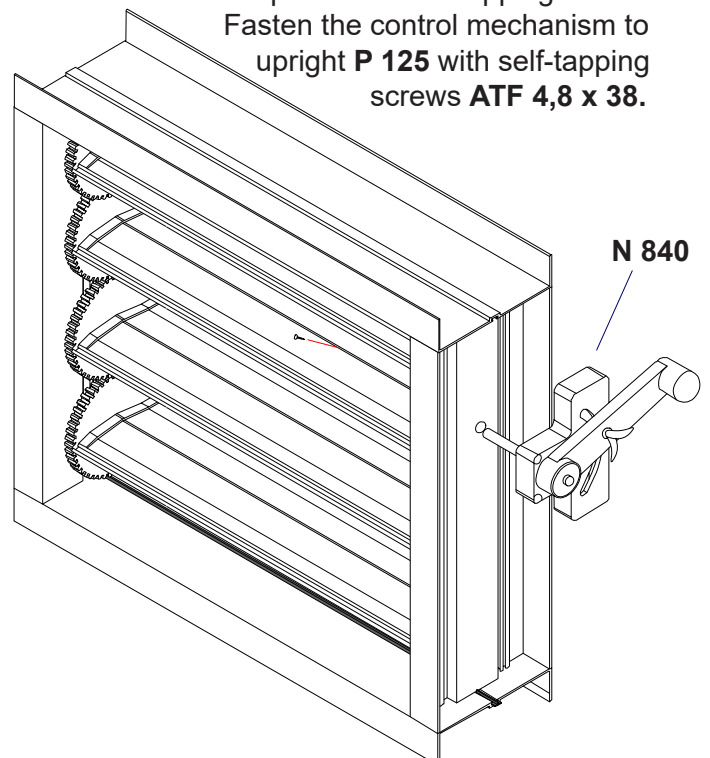


10 Insert the blade-spacer-gear assembly in the grooves of upright **P 125**. The gears should be coupled so that all the slats are oriented in the same position. Distanzhalter

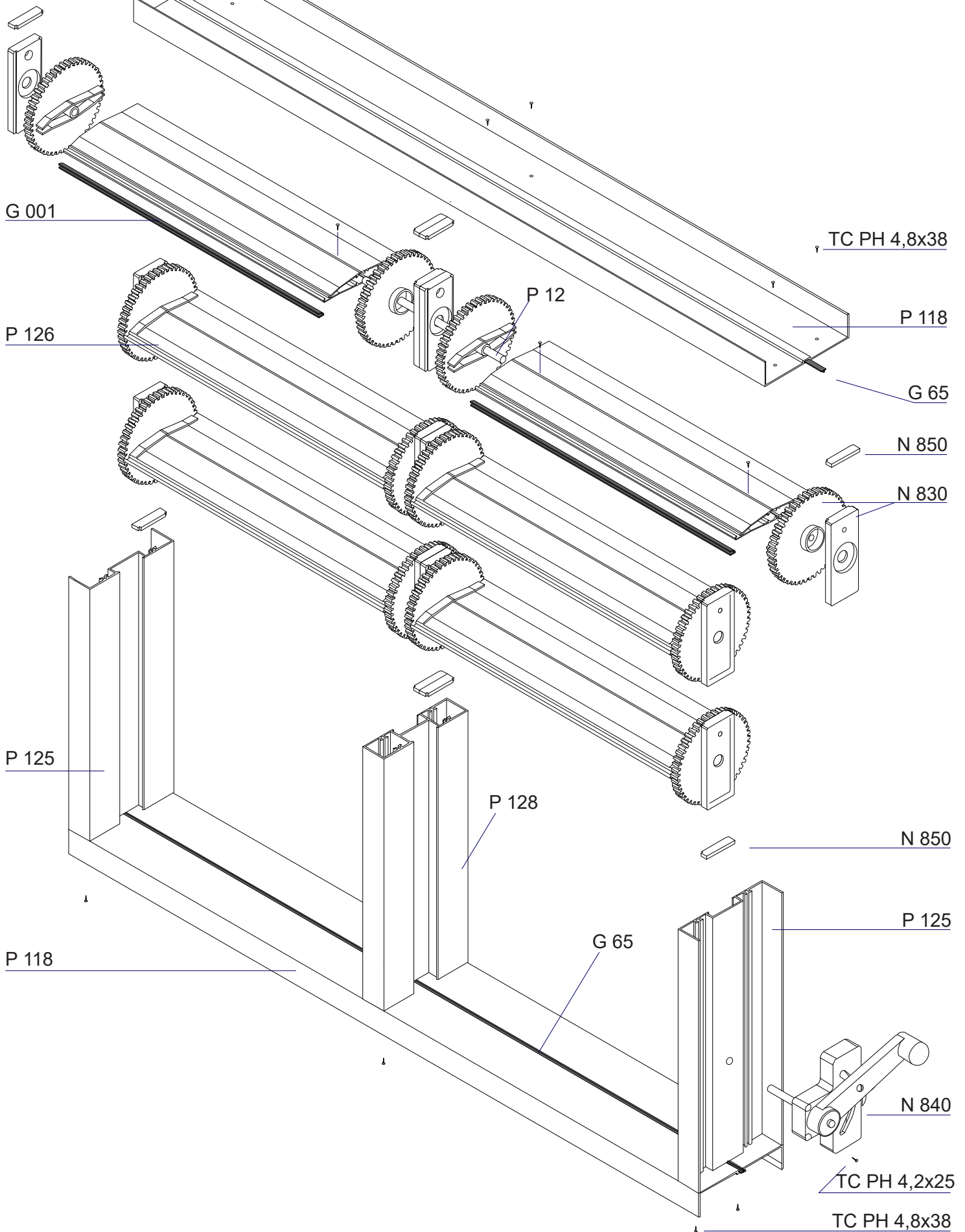


12

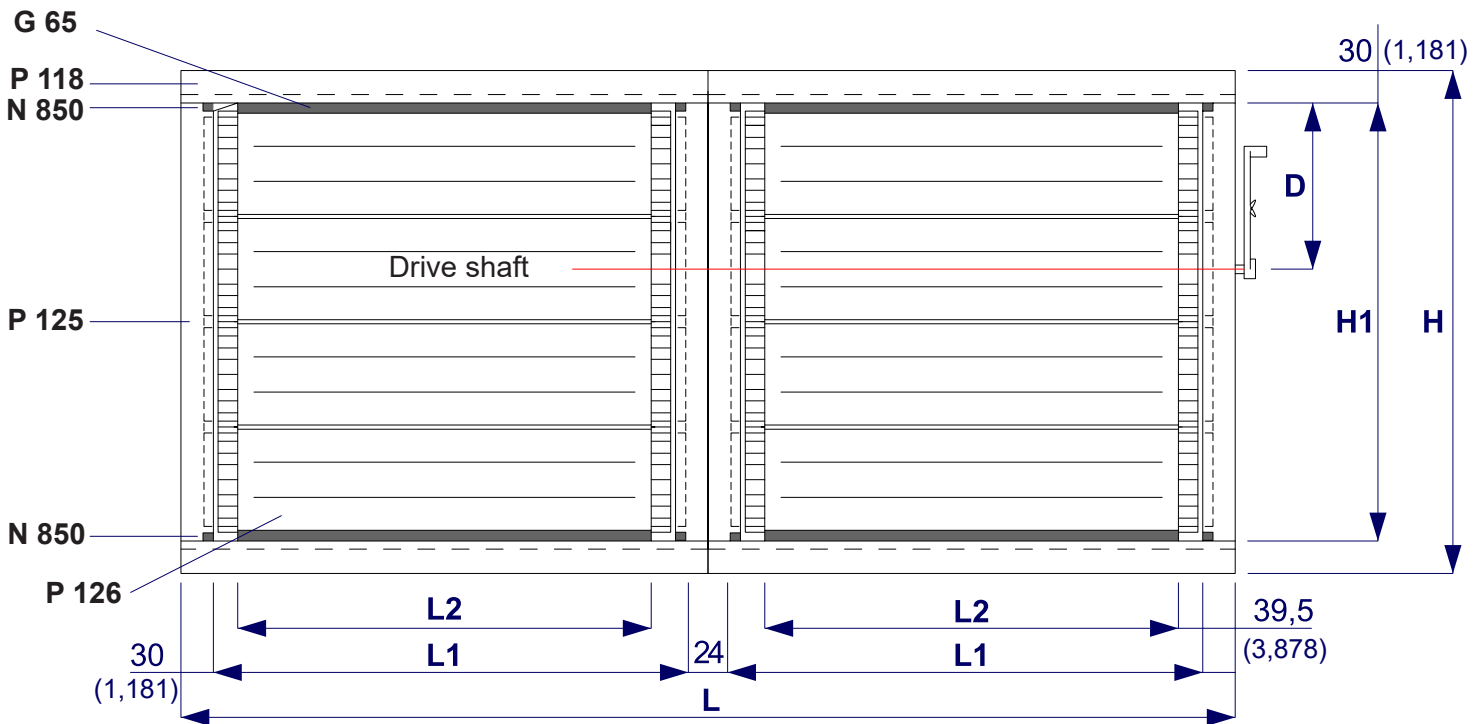
Close the shutter slats by hand. Set the shutter control mechanism **N 840** in the closed position and introduce the pin into blades **P 126**. Drill 1 hole in slat **P 126** and fasten the pin with a self-tapping screw. Fasten the control mechanism to upright **P 125** with self-tapping screws **ATF 4,8 x 38**.



3D representation of double damper



Components for double damper / Instructions for assembly



$D = \text{number of blades} \times 101 + 54$

$H1 = \text{number of blades} \times 101 + 8$

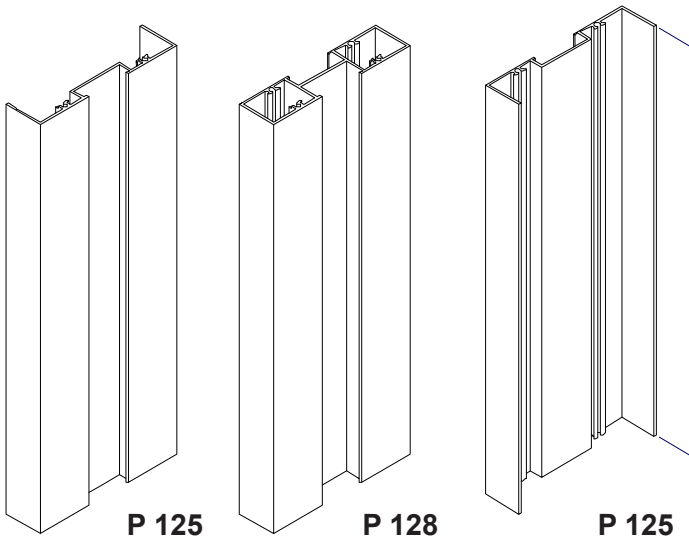
$L = [(L2 + 39,5) \times 2] + 43$

$H = H1 + 60$

Carry out the operations described for the single shutter with the following variations:

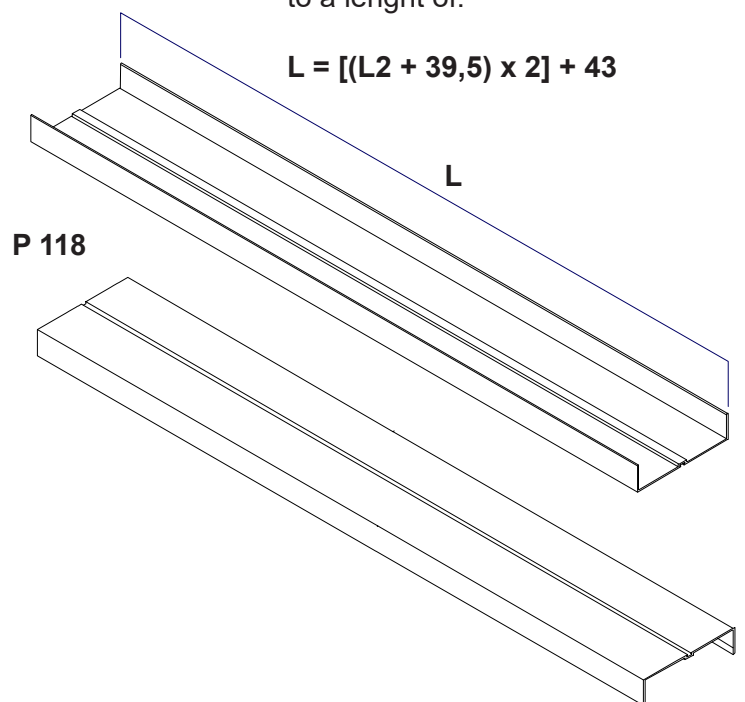
1 Cut 2 uprights **P125** and 1 upright **P128** to a length of:

$H1 = \text{number of slats} \times 101 + 8$



2 Cut 2 uprights **P118** (top and bottom) to a length of:

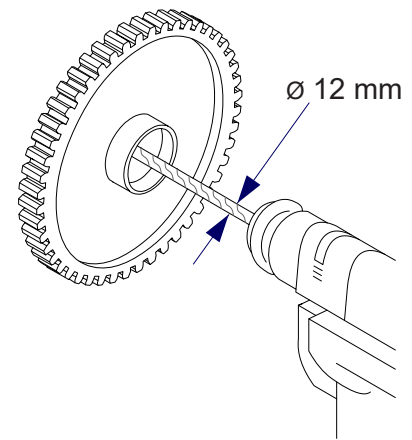
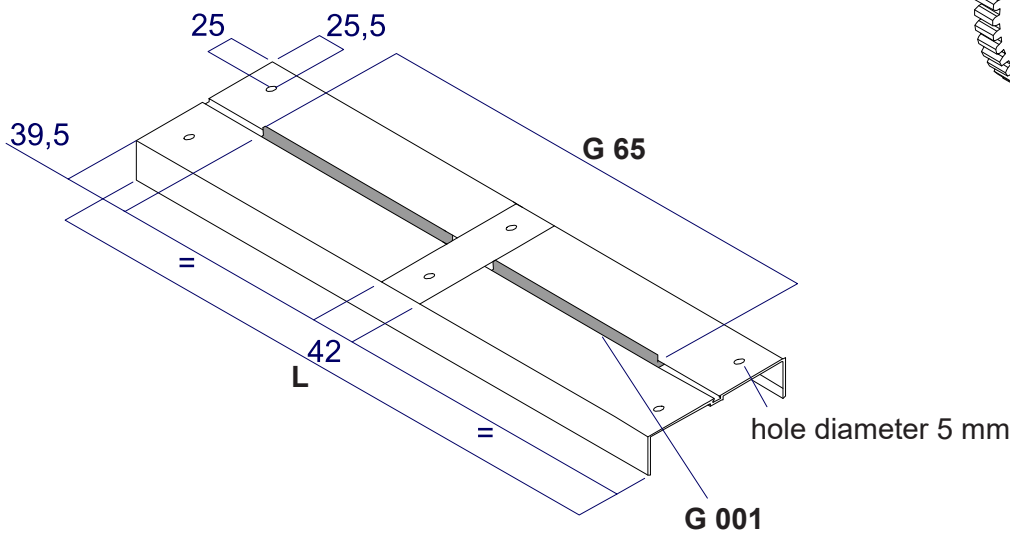
$L = [(L2 + 39,5) \times 2] + 43$



Components for double damper / Instructions for assembly

3 Drill 6 holes \varnothing 5 mm on both ends of **P 118** and insert gasket **G 65** as shown in the picture.

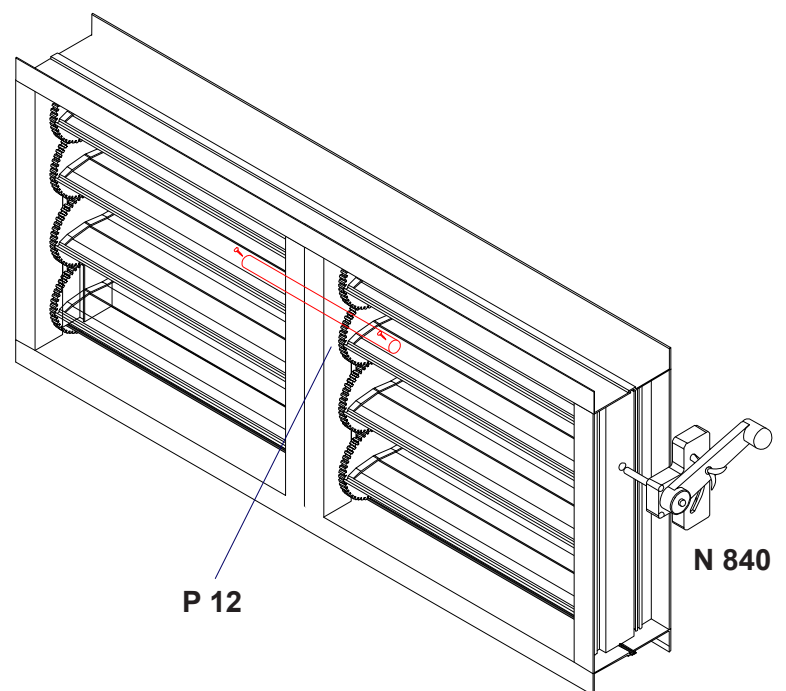
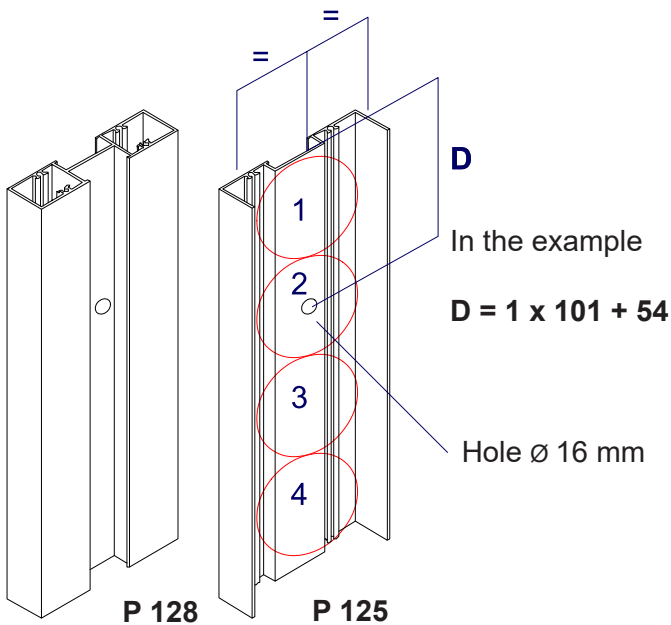
5 Drill 1 hole \varnothing 12 mm. in the 3 gears.



4 Drill 1 hole \varnothing 16 mm on **P 125** and **P 128** uprights at a distance of:

6 Mount shutter opening-closing control **N 840** and connect the two sets of slats together with pin **P 12** and fasten it with two self-tapping screws.

D = number of blades from which to position the hole x 101 + 54

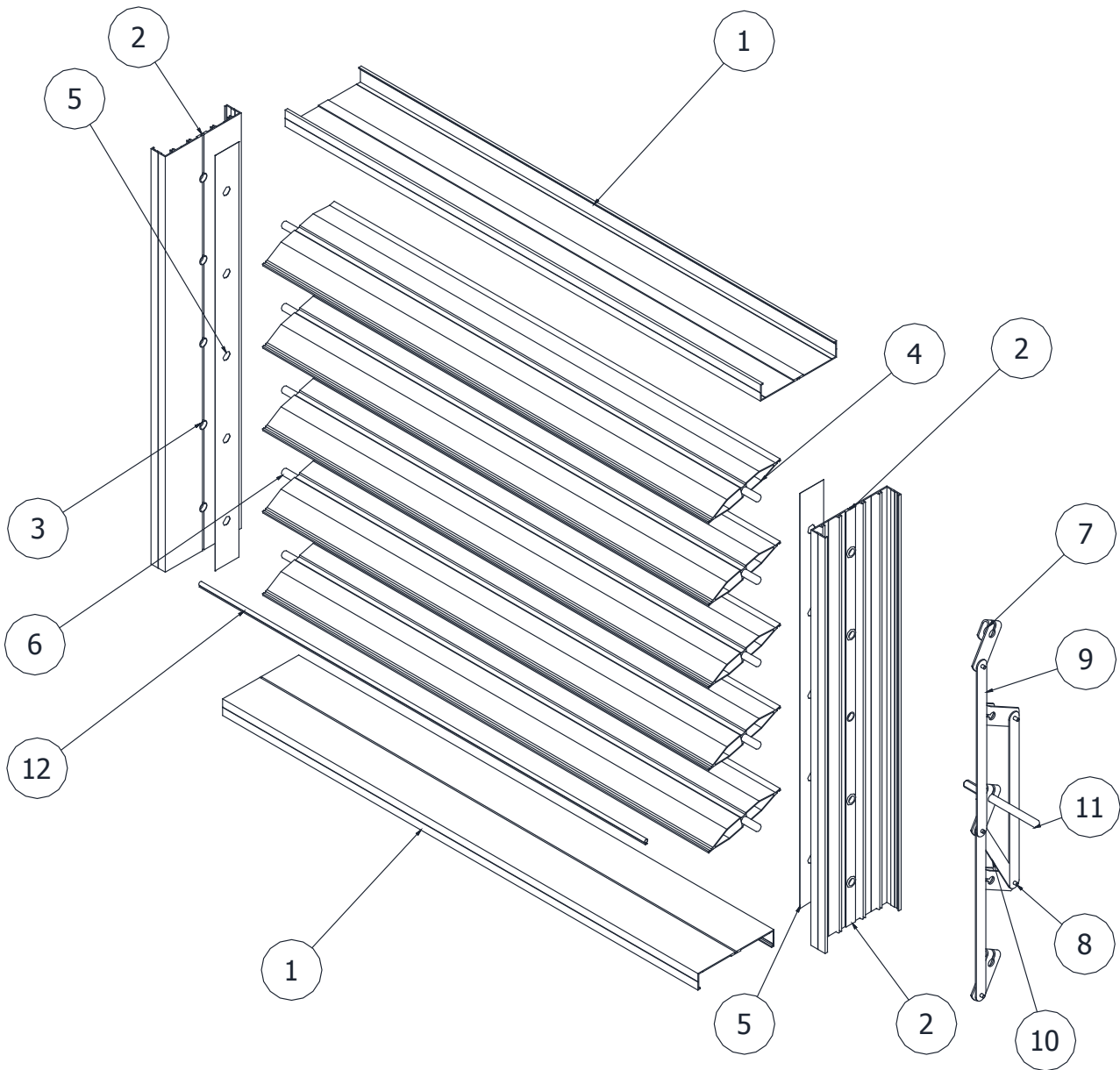


NOTE: It is advisable to keep the control mechanism as central as possible.

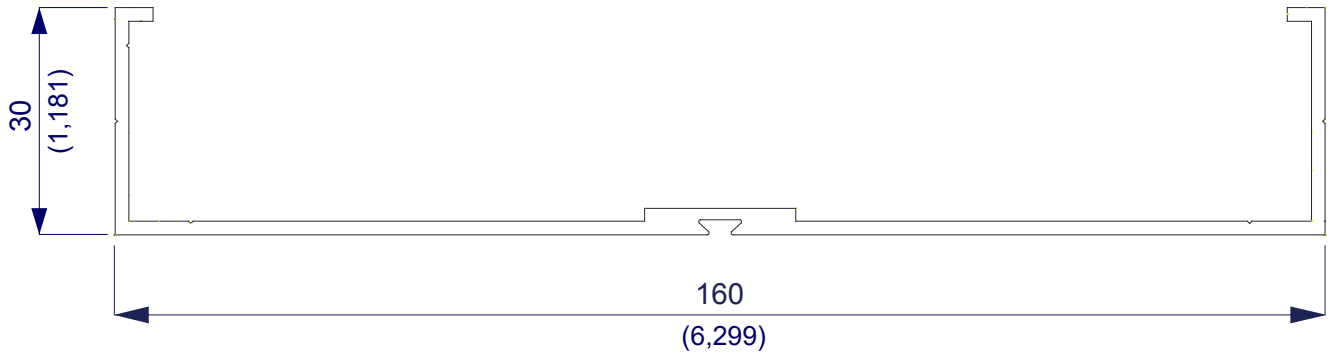
WEIGHT TABLE

H1	Single damper																			Double damper								N830	N830	N830																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	/P125	1.27	1.45	1.62	1.80	1.97	2.15	2.33	2.50	2.68	2.86	3.04	3.21	3.39	3.57	3.75	3.92	4.10	4.28	4.45	4.63	4.81	4.98	4	4.98	4.81	4.63				4.45	4.28	4.10	3.92	3.75	3.57	3.39	3.21	3.04	2.86	2.68	2.50	2.33	2.15	1.97	1.80	1.62	1.45	1.27	5.64	5.92	6.22	6.52	6.82	7.12	7.42	7.72	8.02	8.32	8.62	8.92	9.22	9.52	9.82	10.12	10.42	10.72	11.02	11.32	11.62	11.92	12.22	12.52	12.82	13.12	13.42	13.72	14.02	14.32	14.62	14.92	15.22	15.52	15.82	16.12	16.42	16.72	17.02	17.32	17.62	17.92	18.22	18.52	18.82	19.12	19.42	19.72	20.02	20.32	20.62	20.92	21.22	21.52	21.82	22.12	22.42	22.72	23.02	23.32	23.62	23.92	24.22	24.52	24.82	25.12	25.42	25.72	26.02	26.32	26.62	26.92	27.22	27.52	27.82	28.12	28.42	28.72	29.02	29.32	29.62	29.92	30.22	30.52	30.82	31.12	31.42	31.72	32.02	32.32	32.62	32.92	33.22	33.52	33.82	34.12	34.42	34.72	35.02	35.32	35.62	35.92	36.22	36.52	36.82	37.12	37.42	37.72	38.02	38.32	38.62	38.92	39.22	39.52	39.82	40.12	40.42	40.72	41.02	41.32	41.62	41.92	42.22	42.52	42.82	43.12	43.42	43.72	44.02	44.32	44.62	44.92	45.22	45.52	45.82	46.12	46.42	46.72	47.02	47.32	47.62	47.92	48.22	48.52	48.82	49.12	49.42	49.72	50.02	50.32	50.62	50.92	51.22	51.52	51.82	52.12	52.42	52.72	53.02	53.32	53.62	53.92	54.22	54.52	54.82	55.12	55.42	55.72	56.02	56.32	56.62	56.92	57.22	57.52	57.82	58.12	58.42	58.72	59.02	59.32	59.62	59.92	60.22	60.52	60.82	61.12	61.42	61.72	62.02	62.32	62.62	62.92	63.22	63.52	63.82	64.12	64.42	64.72	65.02	65.32	65.62	65.92	66.22	66.52	66.82	67.12	67.42	67.72	68.02	68.32	68.62	68.92	69.22	69.52	69.82	70.12	70.42	70.72	71.02	71.32	71.62	71.92	72.22	72.52	72.82	73.12	73.42	73.72	74.02	74.32	74.62	74.92	75.22	75.52	75.82	76.12	76.42	76.72	77.02	77.32	77.62	77.92	78.22	78.52	78.82	79.12	79.42	79.72	80.02	80.32	80.62	80.92	81.22	81.52	81.82	82.12	82.42	82.72	83.02	83.32	83.62	83.92	84.22	84.52	84.82	85.12	85.42	85.72	86.02	86.32	86.62	86.92	87.22	87.52	87.82	88.12	88.42	88.72	89.02	89.32	89.62	89.92	90.22	90.52	90.82	91.12	91.42	91.72	92.02	92.32	92.62	92.92	93.22	93.52	93.82	94.12	94.42	94.72	95.02	95.32	95.62	95.92	96.22	96.52	96.82	97.12	97.42	97.72	98.02	98.32	98.62	98.92	99.22	99.52	99.82	100.12	100.42	100.72	101.02	101.32	101.62	101.92	102.22	102.52	102.82	103.12	103.42	103.72	104.02	104.32	104.62	104.92	105.22	105.52	105.82	106.12	106.42	106.72	107.02	107.32	107.62	107.92	108.22	108.52	108.82	109.12	109.42	109.72	110.02	110.32	110.62	110.92	111.22	111.52	111.82	112.12	112.42	112.72	113.02	113.32	113.62	113.92	114.22	114.52	114.82	115.12	115.42	115.72	116.02	116.32	116.62	116.92	117.22	117.52	117.82	118.12	118.42	118.72	119.02	119.32	119.62	119.92	120.22	120.52	120.82	121.12	121.42	121.72	122.02	122.32	122.62	122.92	123.22	123.52	123.82	124.12	124.42	124.72	125.02	125.32	125.62	125.92	126.22	126.52	126.82	127.12	127.42	127.72	128.02	128.32	128.62	128.92	129.22	129.52	129.82	130.12	130.42	130.72	131.02	131.32	131.62	131.92	132.22	132.52	132.82	133.12	133.42	133.72	134.02	134.32	134.62	134.92	135.22	135.52	135.82	136.12	136.42	136.72	137.02	137.32	137.62	137.92	138.22	138.52	138.82	139.12	139.42	139.72	140.02	140.32	140.62	140.92	141.22	141.52	141.82	142.12	142.42	142.72	143.02	143.32	143.62	143.92	144.22	144.52	144.82	145.12	145.42	145.72	146.02	146.32	146.62	146.92	147.22	147.52	147.82	148.12	148.42	148.72	149.02	149.32	149.62	149.92	150.22	150.52	150.82	151.12	151.42	151.72	152.02	152.32	152.62	152.92	153.22	153.52	153.82	154.12	154.42	154.72	155.02	155.32	155.62	155.92	156.22	156.52	156.82	157.12	157.42	157.72	158.02	158.32	158.62	158.92	159.22	159.52	159.82	160.12	160.42	160.72	161.02	161.32	161.62	161.92	162.22	162.52	162.82	163.12	163.42	163.72	164.02	164.32	164.62	164.92	165.22	165.52	165.82	166.12	166.42	166.72	167.02	167.32	167.62	167.92	168.22	168.52	168.82	169.12	169.42	169.72	170.02	170.32	170.62	170.92	171.22	171.52	171.82	172.12	172.42	172.72	173.02	173.32	173.62	173.92	174.22	174.52	174.82	175.12	175.42	175.72	176.02	176.32	176.62	176.92	177.22	177.52	177.82	178.12	178.42	178.72	179.02	179.32	179.62	179.92	180.22	180.52	180.82	181.12	181.42	181.72	182.02	182.32	182.62	182.92	183.22	183.52	183.82	184.12	184.42	184.72	185.02	185.32	185.62	185.92	186.22	186.52	186.82	187.12	187.42	187.72	188.02	188.32	188.62	188.92	189.22	189.52	189.82	190.12	190.42	190.72	191.02	191.32	191.62	191.92	192.22	192.52	192.82	193.12	193.42	193.72	194.02	194.32	194.62	194.92	195.22	195.52	195.82	196.12	196.42	196.72	197.02	197.32	197.62	197.92	198.22	198.52	198.82	199.12	199.42	199.72	200.02	200.32	200.62	200.92	201.22	201.52	201.82	202.12	202.42	202.72	203.02	203.32	203.62	203.92	204.22	204.52	204.82	205.12	205.42	205.72	206.02	206.32	206.62	206.92	207.22	207.52	207.82	208.12	208.42	208.72	209.02	209.32	209.62	209.92	210.22	210.52	210.82	211.12	211.42	211.72	212.02	212.32	212.62	212.92	213.22	213.52	213.82	214.12	214.42	214.72	215.02	215.32	215.62	215.92	216.22	216.52	216.82	217.12	217.42	217.72	218.02	218.32	218.62	218.92	219.22	219.52	219.82	220.12	220.42	220.72	221.02	221.32	221.62	221.92	222.22	222.52	222.82	223.12	223.42	223.72	224.02	224.32	224.62	224.92	225.22	225.52	225.82	226.12	226.42	226.72	227.02	227.32	227.62	227.92	228.22	228.52	228.82	229.12	229.42	229.72	230.02	230.32	230.62	230.92	231.22	231.52	231.82	232.12	232.42	232.72	233.02	233.32	233.62	233.92	234.22	234.52	234.82	235.12	235.42	235.72	236.02	236.32	236.62	236.92	237.22	237.52	237.82	238.12	238.42	238.72	239.02	239.32	239.62	239.92	240.22	240.52	240.82	241.12	241.42	241.72	242.02	242.32	242.62	242.92	243.22	243.52	243.82	244.12	244.42	244.72	245.02	245.32	245.62	245.92	246.22	246.52	246.82	247.12	247.42	247.72	248.02	248.32	248.62	248.92	249.22	249.52	249.82	250.12	250.42	250.72	251.02	251.32	251.62	251.92	252.22	252.52	252.82	253.12	253.42	253.72	254.02	254.32	254.62	254.92	255.22	255.52	255.82	256.12	256.42	256.72	257.02	257.32	257.62	257.92	258.22	258.52	258.82	259.12	259.42	259.72	260.02	260.32	260.62	260.92	261.22	261.52	261.82	262.12	262.42	262.72	263.02	263.32	263.62	263.92	264.22	264.52	264.82	265.12	265.42	265.72	266.02	266.32	266.62	266.92	267.22	267.52	267.82	268.12	268.42	268.72	269.02	269.32	269.62	269.92	270.22	270.52	270.82	271.12	271.42	271.72	272.02	272.32	272.62	272.92	273.22	273.52	273.82	274.12	274.42	274.72	275.02	275.32	275.62	275.92	276.22	276.52	276.82	277.12	277.42	277.72	278.02	278.32	278.62	278.92	279.22	279.52	279.82	280.12	280.42	280.72	281.02	281.32	281.62	281.92	282.22	282.52	282.82	283.12	283.42	283.72	284.02	284.32	284.62	284.92	285.22	285.52	285.82	286.12	286.42	286.72	287.02	287.32	287.62	287.92	288.22	288.52	288.82	289.12	289.42	289.72	290.02	290.32	290.62	290.92	291.22	291.52	291.82	292.12	292.42	292.72	293.02	293.32	293.62	293.92	294.22	294.52	294.82	295.12	295.42	295.72	296.02	296.32	296.62	296.92	297.22	297.52	297.82	298.12	298.42	298.72	299.02	299.32	299.62	299.92	300.22	300.52	300.82	301.12	301.42	301.72	302.02	302.32	302.62	302.92	303.22	303.52	303.82	304.12	304.42	304.72	305.02	305.32	305.62	305.92	306.22	306.52	306.82	307.12	307.42	307.72	308.02	308.32	308.62	308.92	309.22	309.52	309.82	310.12	310.42	310.72	311.02	311.32	311.62	311.92	312.22	312.52	312.82	313.12	313.42	313.72	314.02	314.32	314.62	314.92	315.22	315.52	315.82	316.12	316.42	316.72	317.02	317.32	317.62	317.92	318.22	318.52	318.82	319.12	319.42	319.72	320.02	320.32	320.62	320.92	321.22	321.52	321.82	322.12	322.42	322.72	323.02	323.32	323.62	323.92	324.22	324.52	324.82	325.12	325.42	325.72	326.02	326.32	326.62	326.92	327.22	327.52	327.82	328.12	328.42

3D Representation of single damper pitch 150 mm



PART LIST	
ITEM	PART NUMBER
1	PD 2001
2	PD 2002
3	80VM000072
4	PD 2000
5	30VM000585
6	30VM000556
7	80VM000036
8	60VM000024
9	80VM000043
10	80VM000044
11	30VM000558
12	G001 / G0014

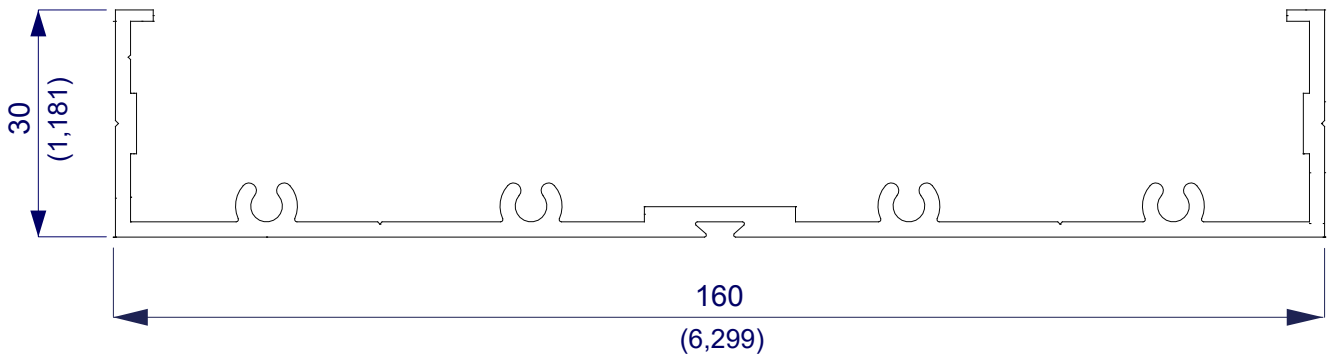


PD 2001

Weight kg/m 1,167

(lb/ft 0,784)

Bundle of 2 bars

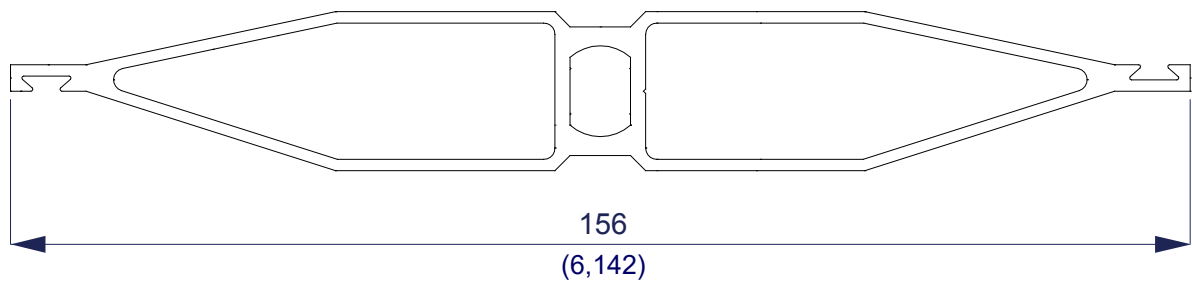


PD 2002

Weight kg/m 1,565

(lb/ft 1,052)

Bundle of 2 bars

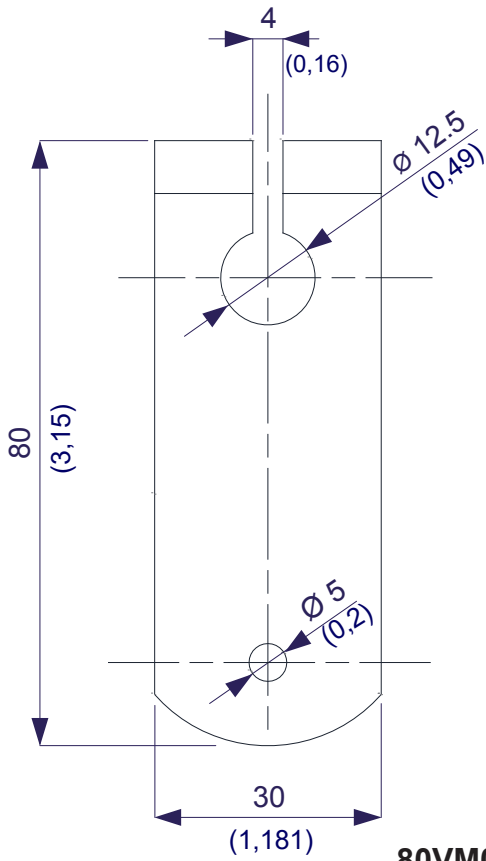


PD 2000

Weight kg/m 1,549

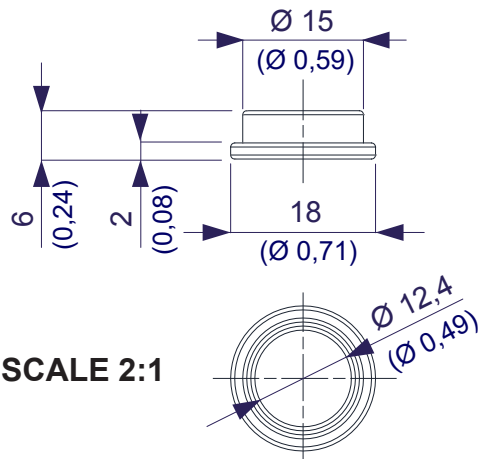
(lb/ft 1,041)

Bundle of 2 bars



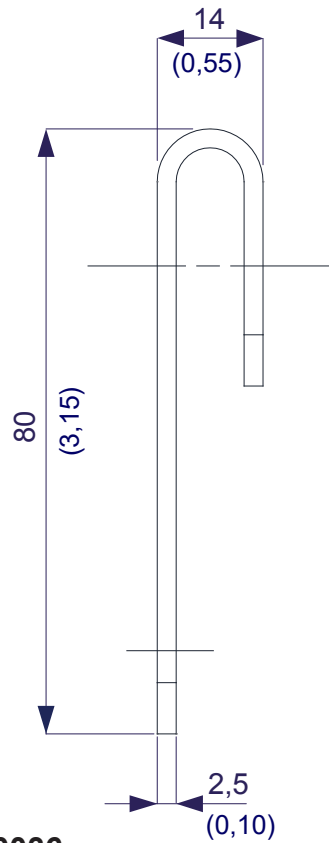
80VM000036
 Box of 50 pcs.

GASKET



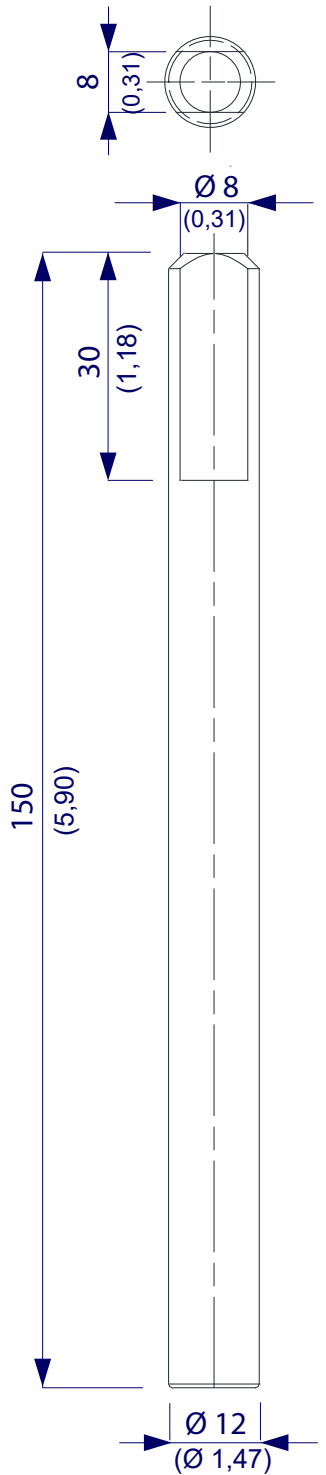
SCALE 2:1

80VM000072
 Box of 500 pcs.



30VM000556
 Box of 300 pcs.

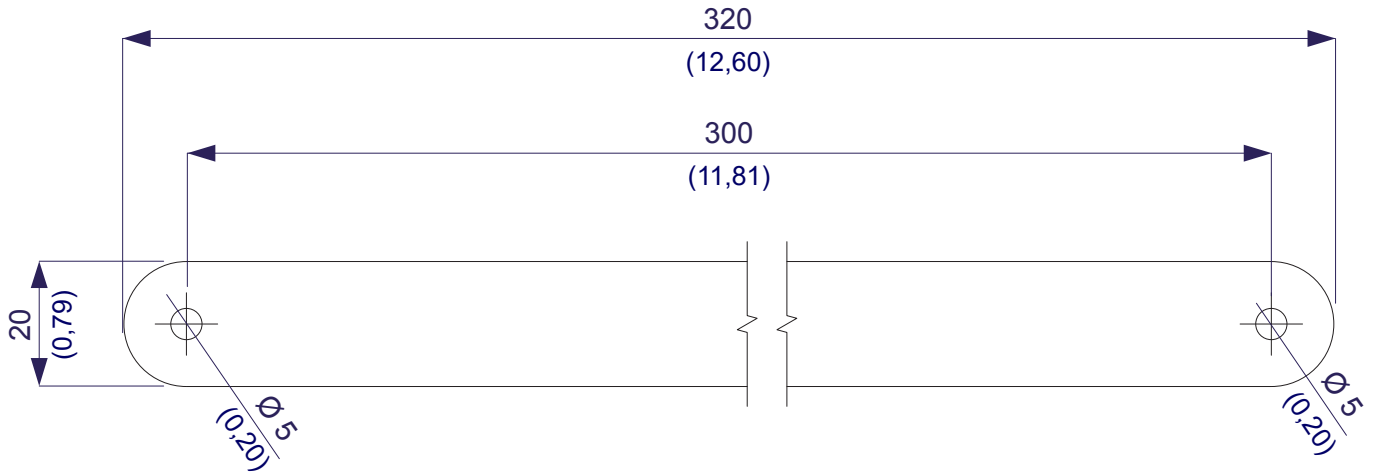
LEVERISM



30VM000558
 Box of 300 pcs.

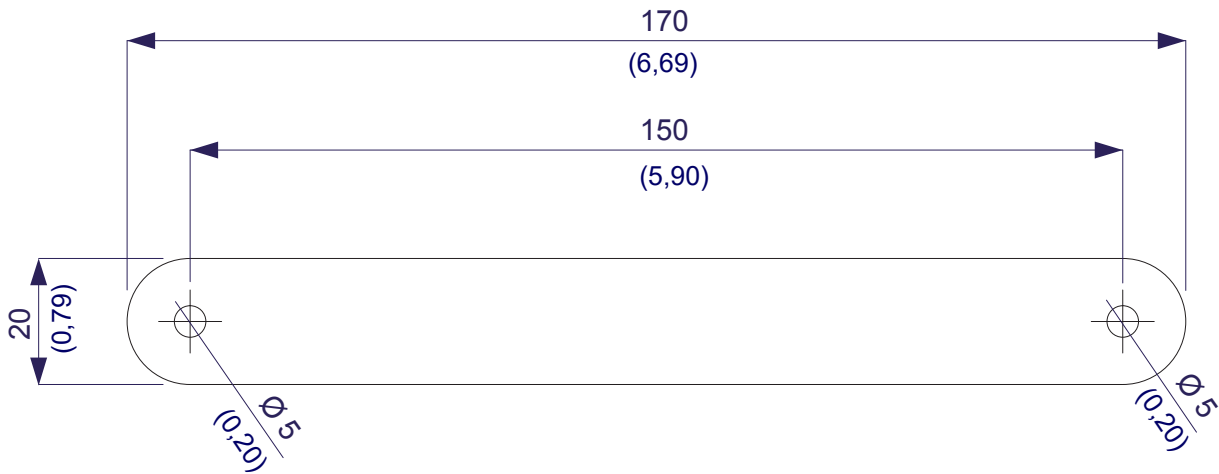
80VM000044

Box of 50 pcs.



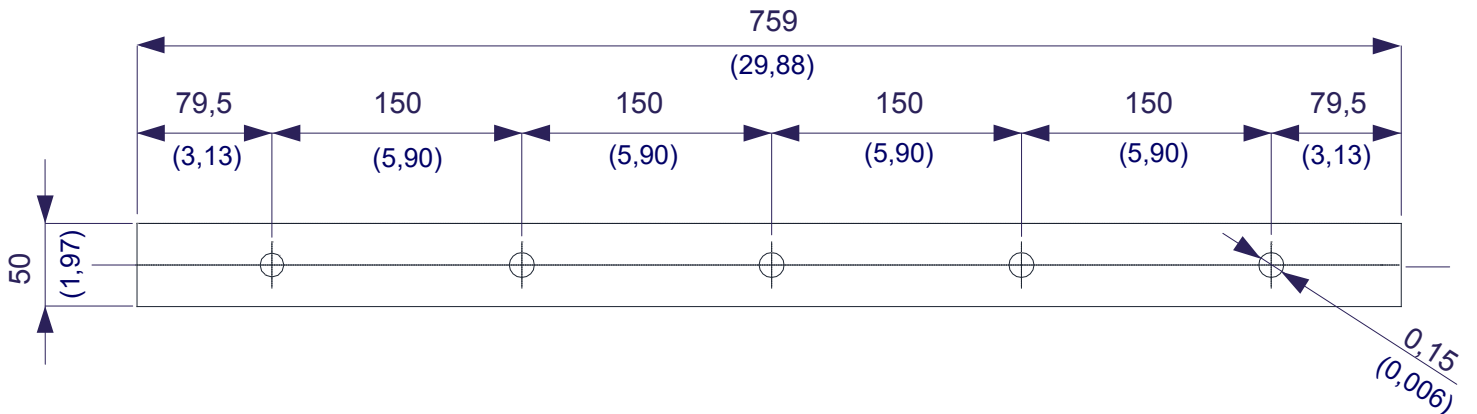
80VM000043

Box of 50 pcs.



30VM000585

Box of 50 pcs.



Griglie in alluminio: profili ed accessori.

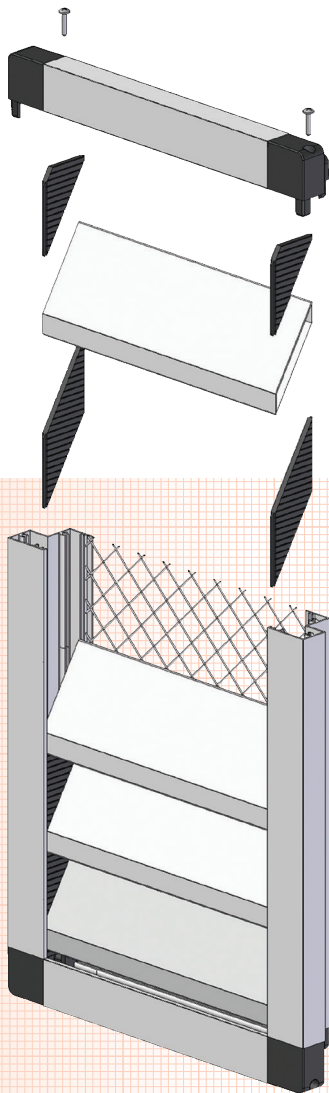
Aluminium louvers: profiles and accessories.

Grilles en aluminium: profiles et accessoires.

Rejillas en aluminio: perfiles y accesorios.

Aluminumgitter.

铝磨碎。



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08

The louvers available in our series are many and entirely in aluminium.

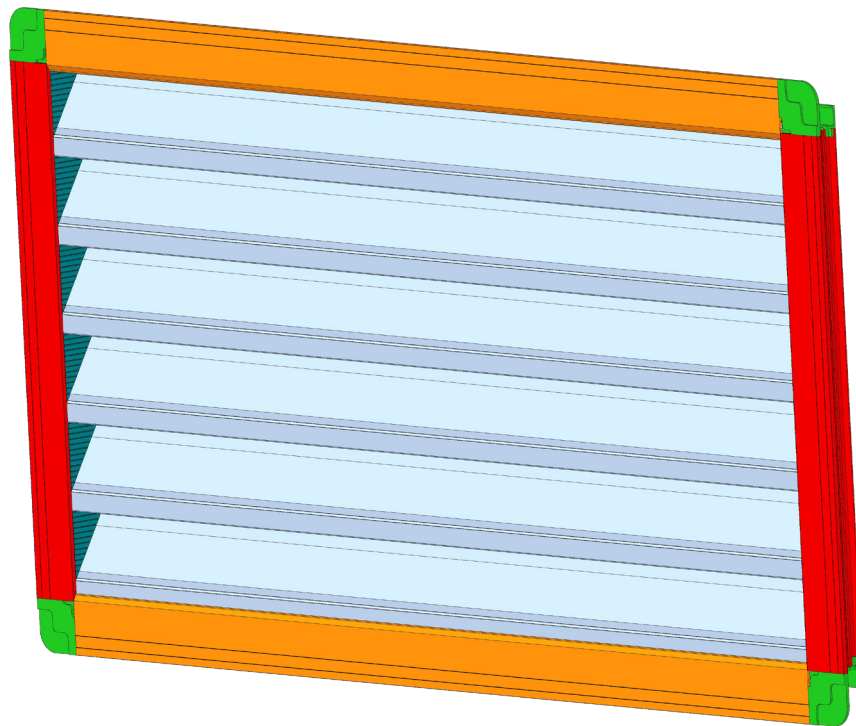
The common features of these louvers are the design and the assembly method where the blades are automatically fixed and spaced out on the frame by special nylon spacers.

These spacers are positioned into the grooves of the profile and enclose the frame keeping out water and dirt.

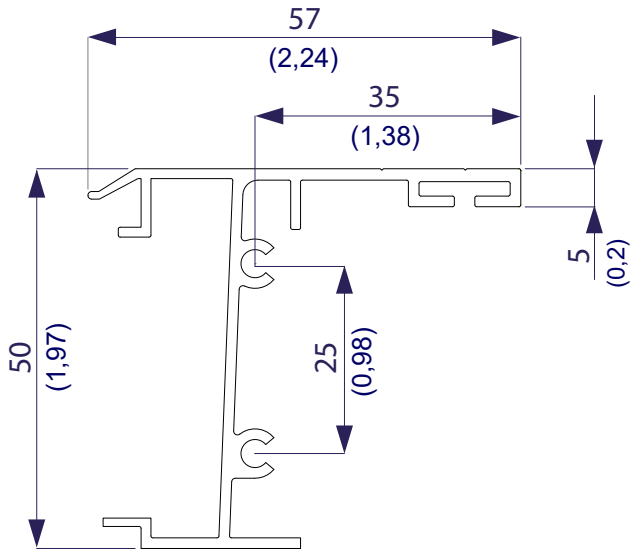
This system avoids the need of screws, rivets or expensive tool to fix the blades.

The louvers can be equipped with rain-proof blades that prevent water from entering inside the machine. Their special shapes hold the water drop and slide it along the profiles up to the frame and drain out from the corners.

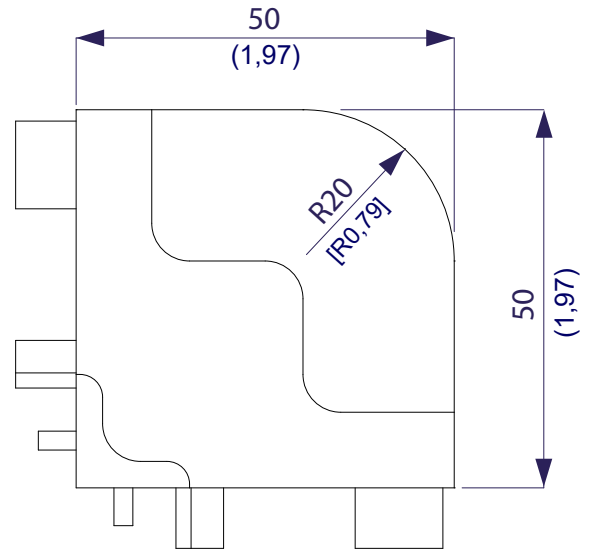
The frame can be flat (flush panel) or with a step of 25 mm.



Profiles and accessories

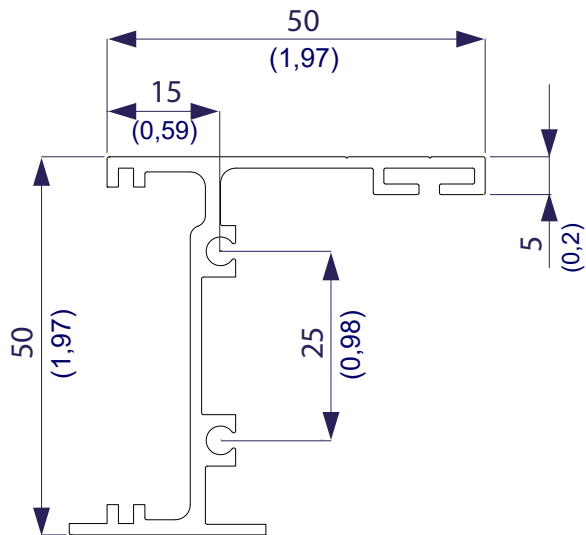
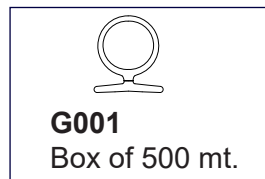


PL 130
Weight kg/m 0,723
(lb/ft 0,486)
Bundle of 5 bars

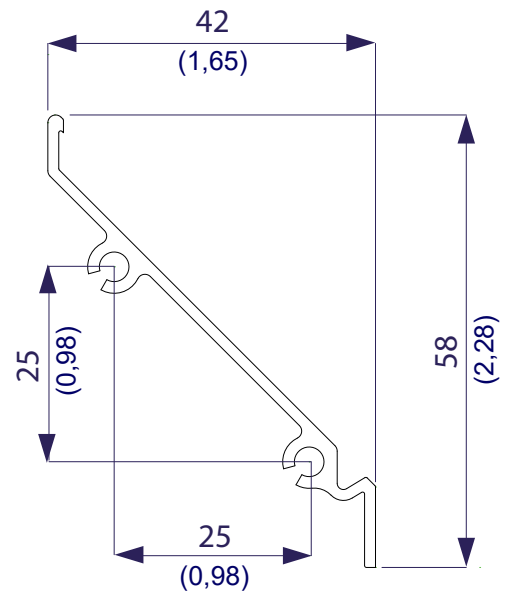


A 130
Box of 120 pcs.

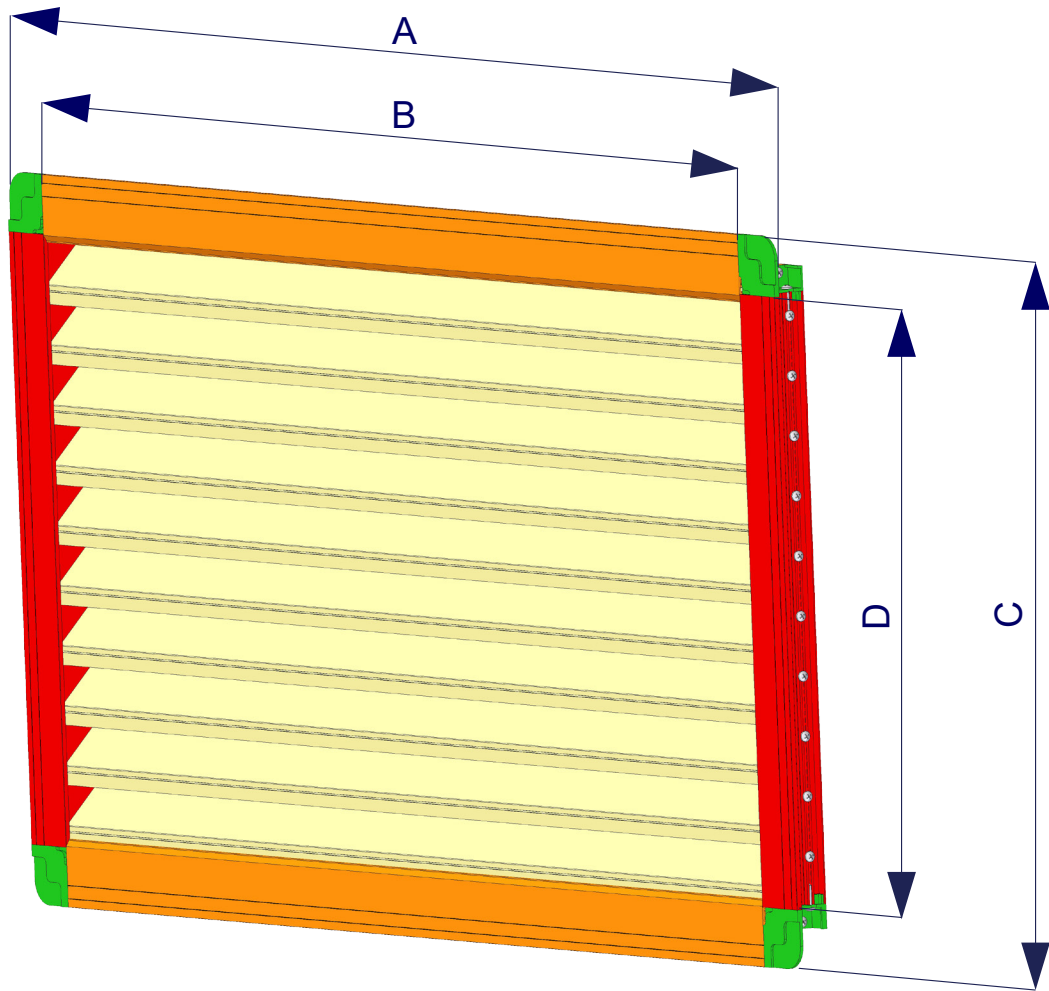
GASKET



PL 131
Weight kg/m 0,751
(lb/ft 0,505)
Bundle of 4 bars



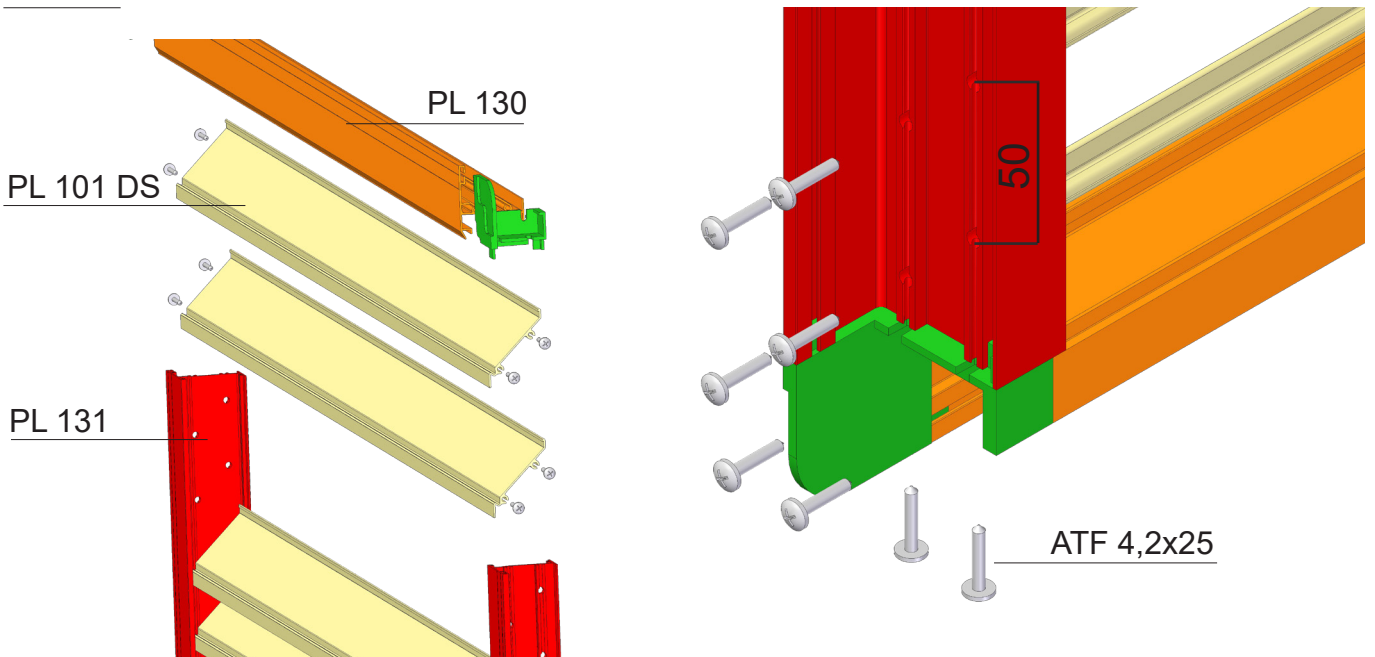
PL 101 DS
Weight kg/m 0,398
(lb/ft 0,267)
Bundle of 6 bars



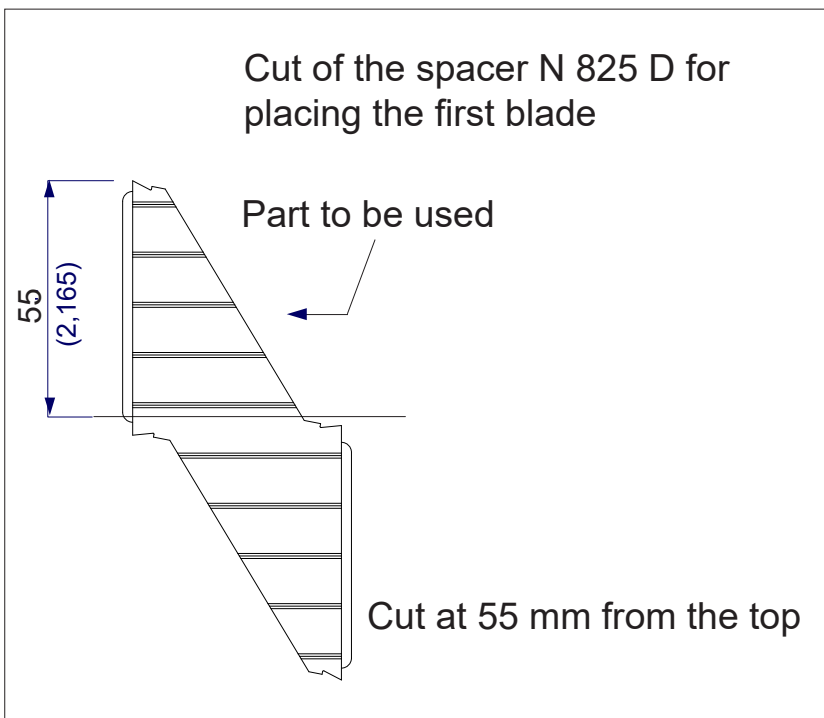
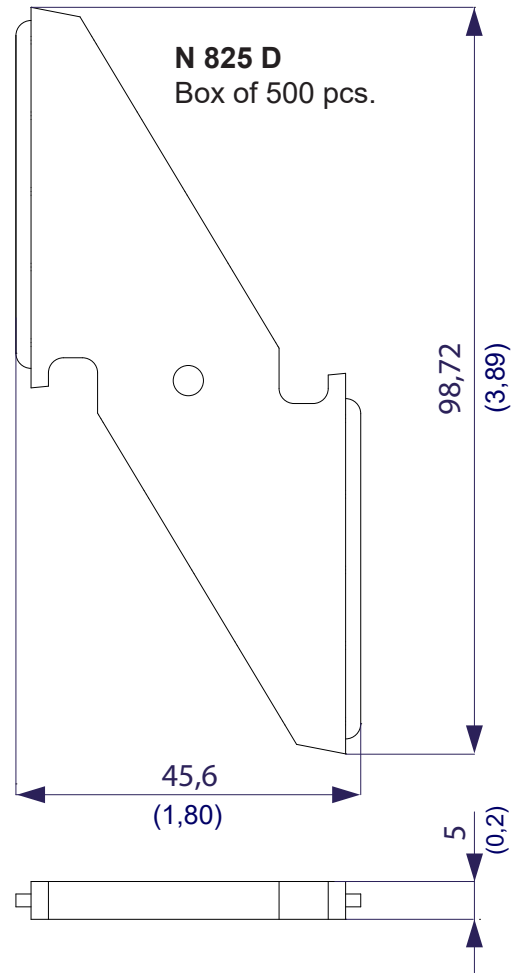
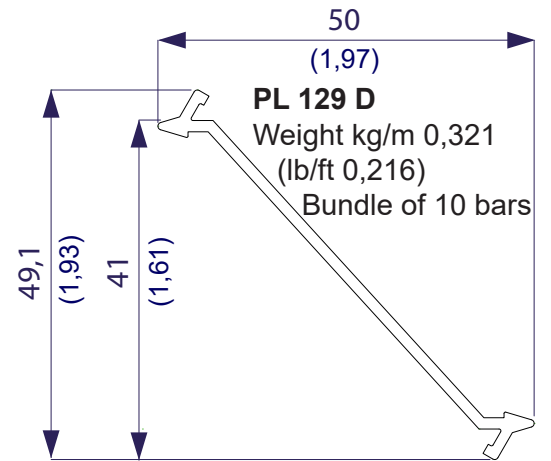
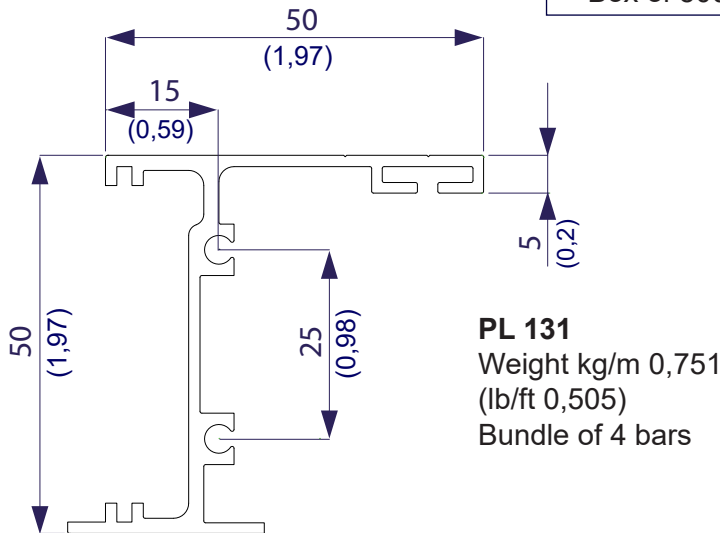
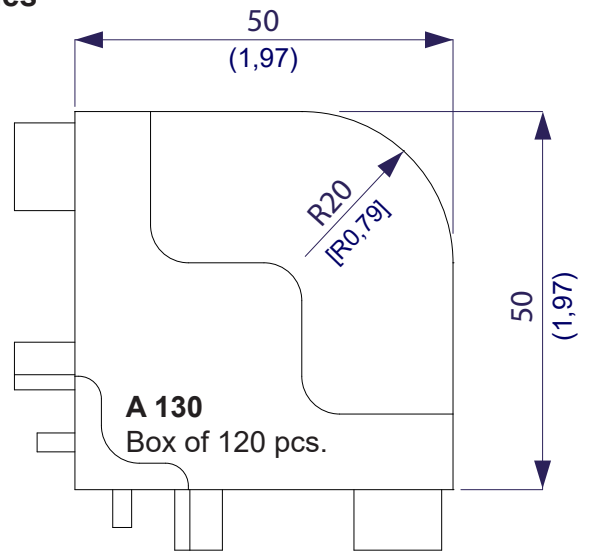
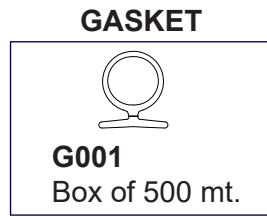
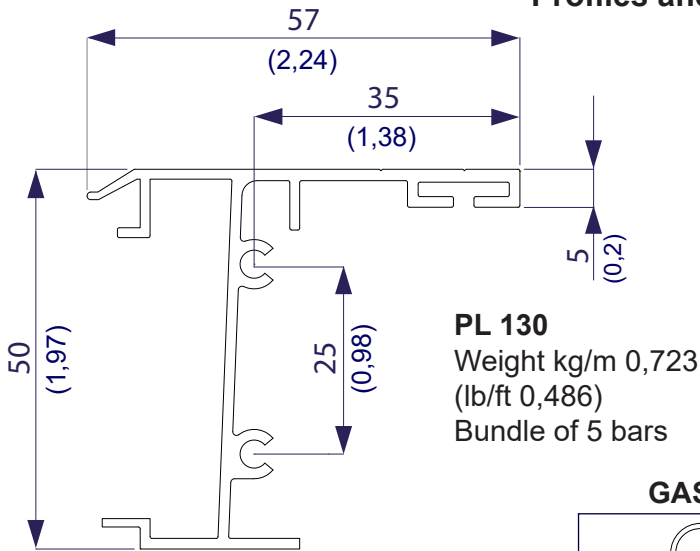
FORMULA

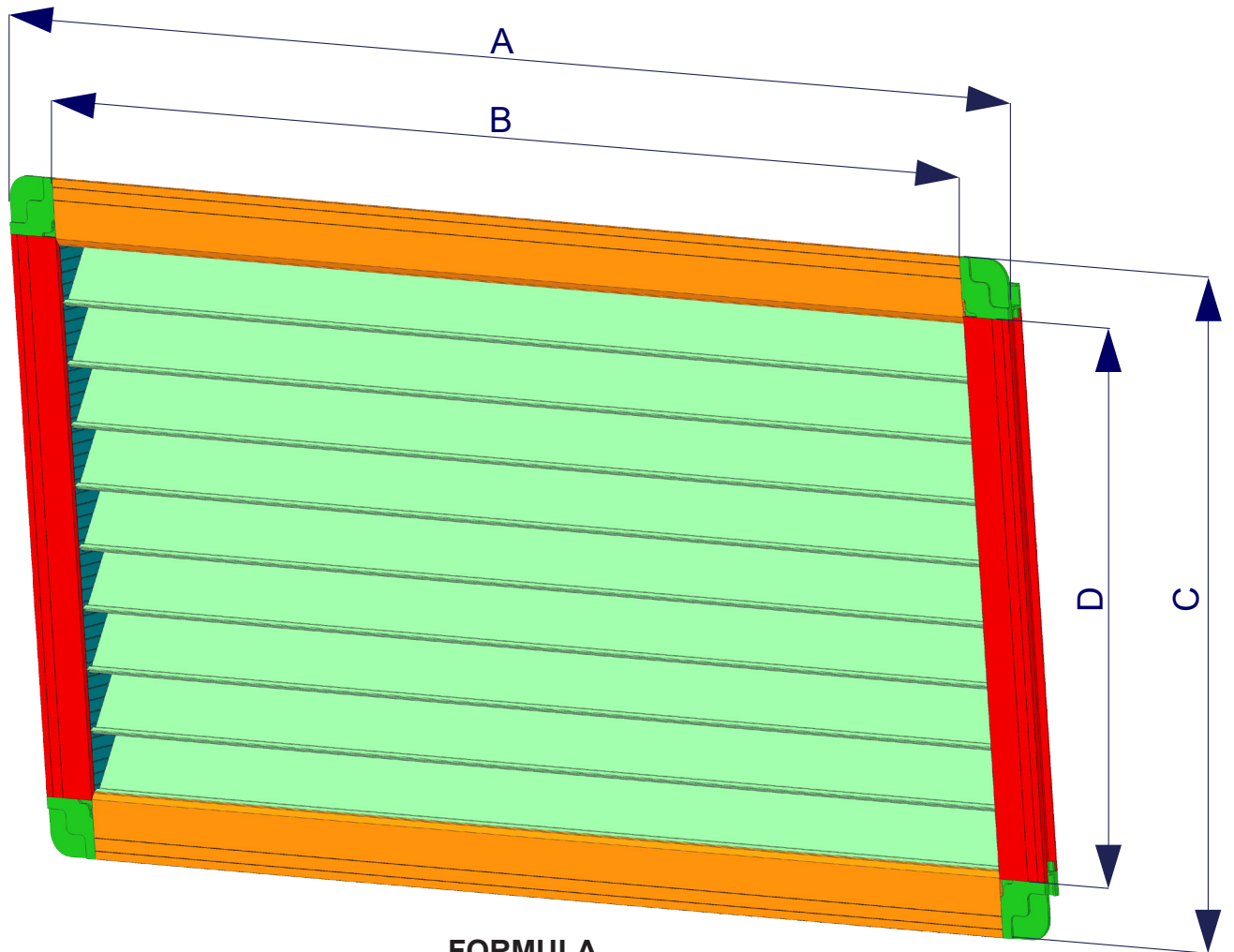
$B \text{ (PL 130)} = A - 100$
 $D \text{ (PL 131)} = C - 100$
 Length of blades (PL 101 DS) = $A - 102$
 N° blades $(C - 100) : 50$

A 130



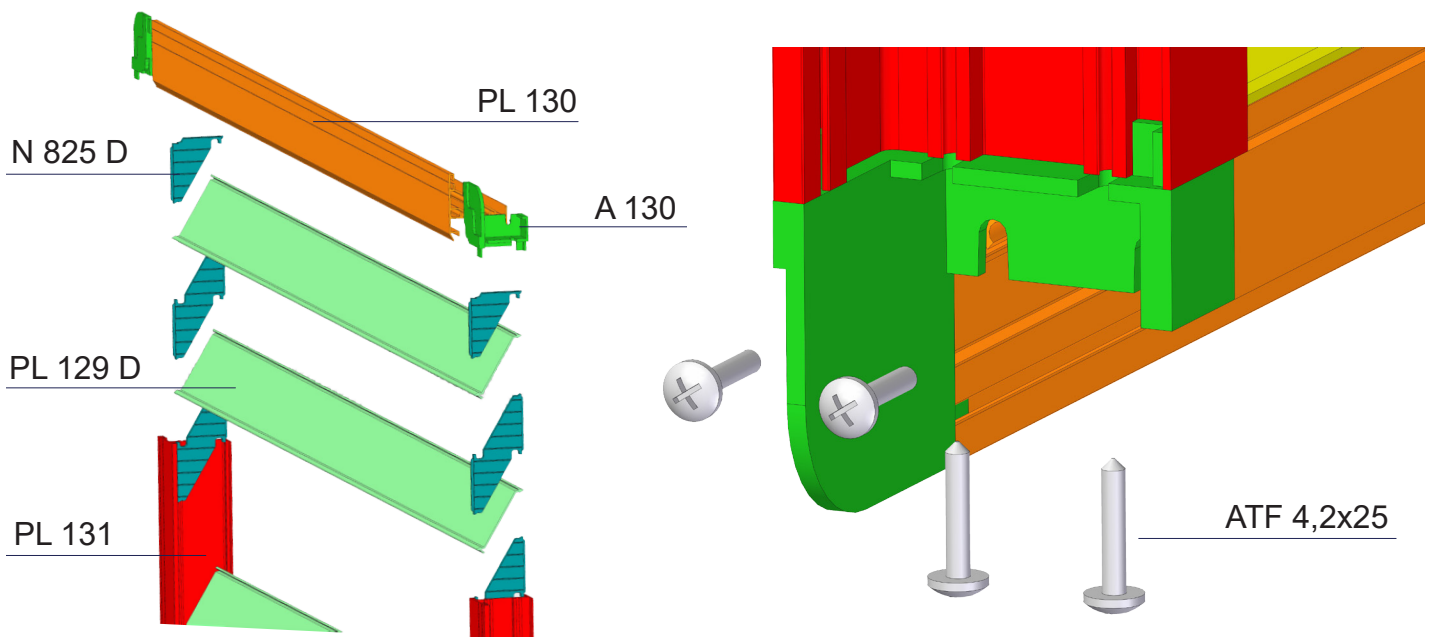
Profiles and accessories



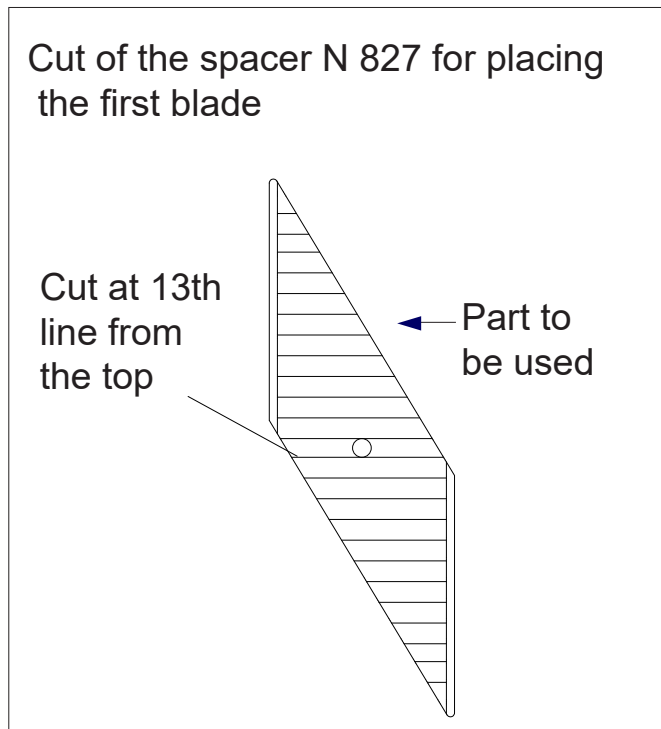
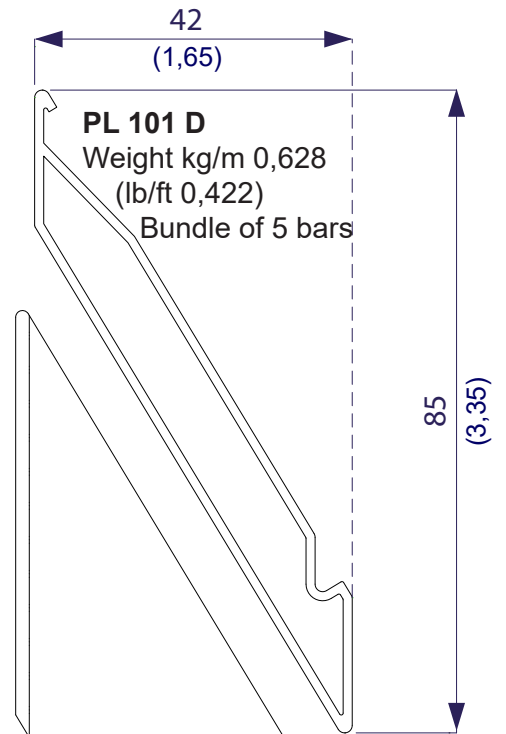
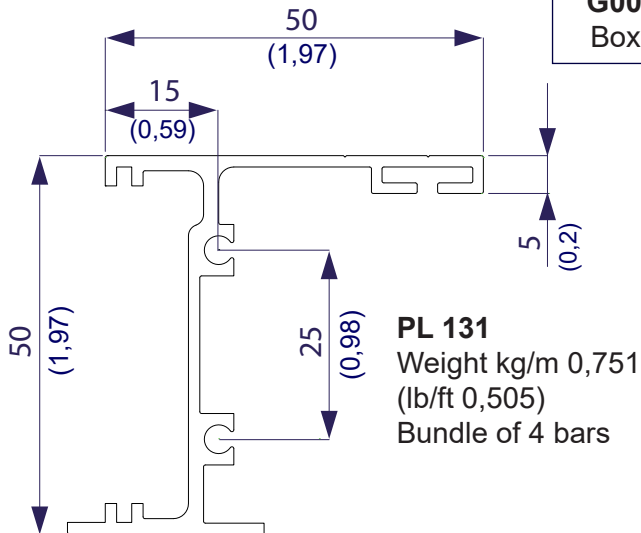
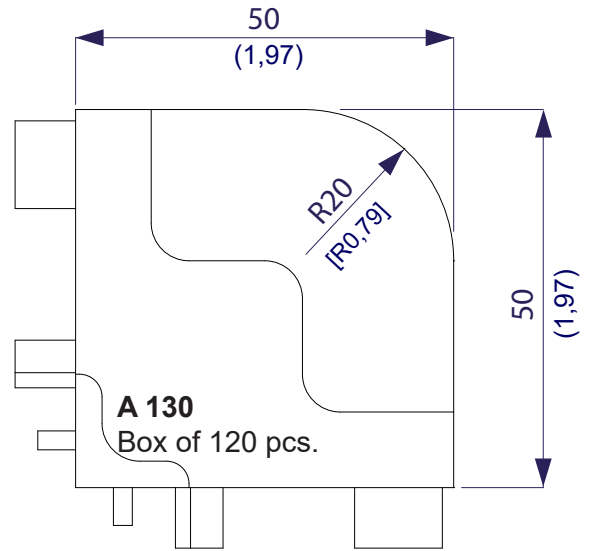
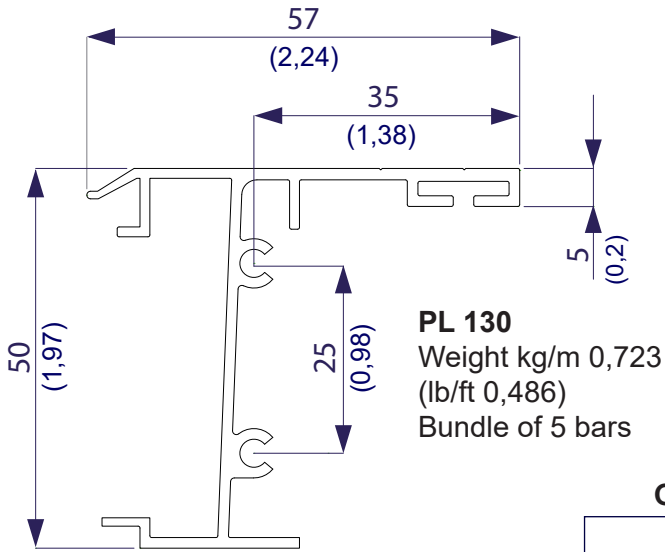


FORMULA

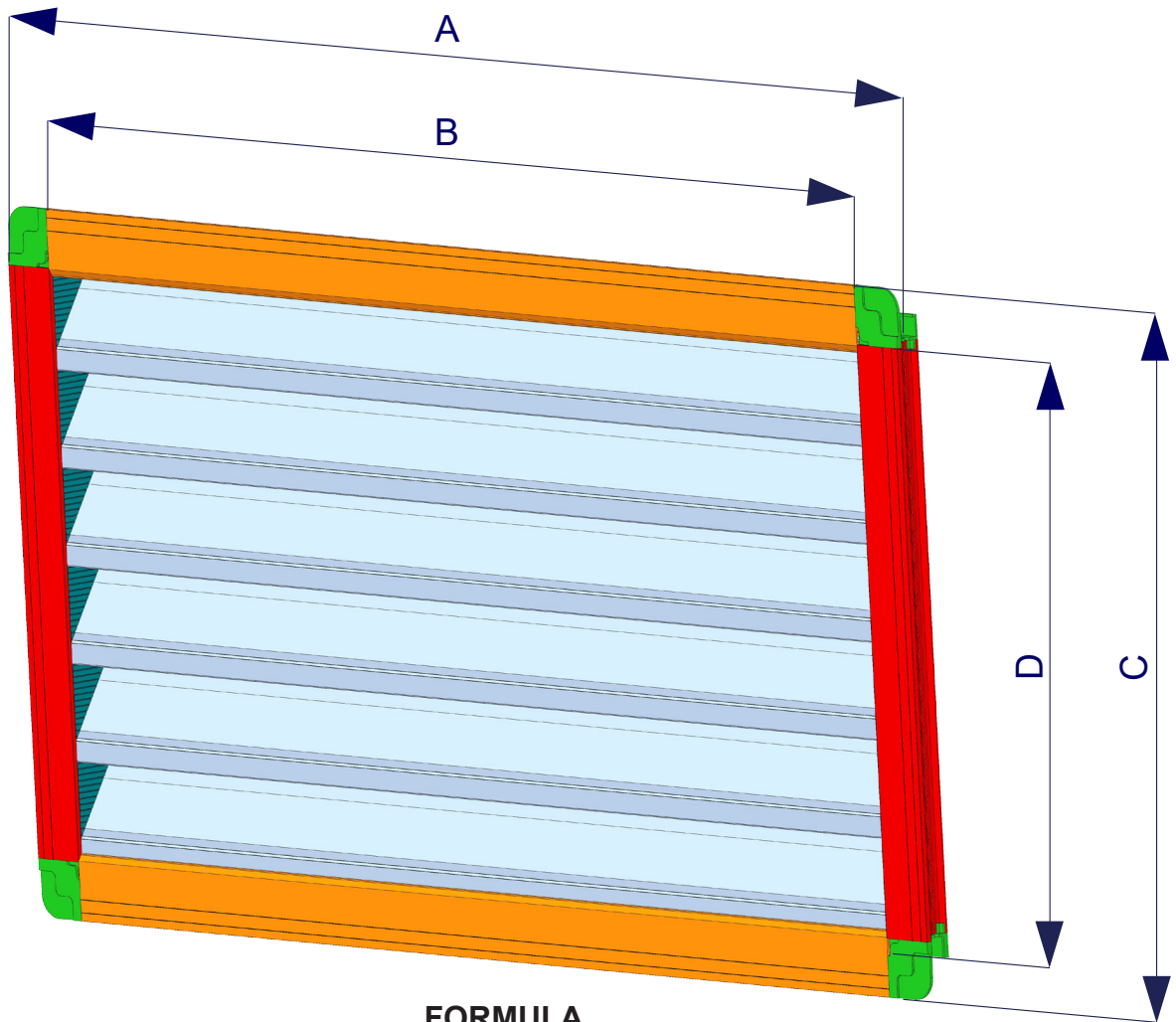
$B \text{ (PL 130)} = A - 100$
 $D \text{ (PL 131)} = C - 100$
 Length of blades (PL 129 D) = $A - 80$
 N° blades (C - 100) : 51,5



Profiles and accessories

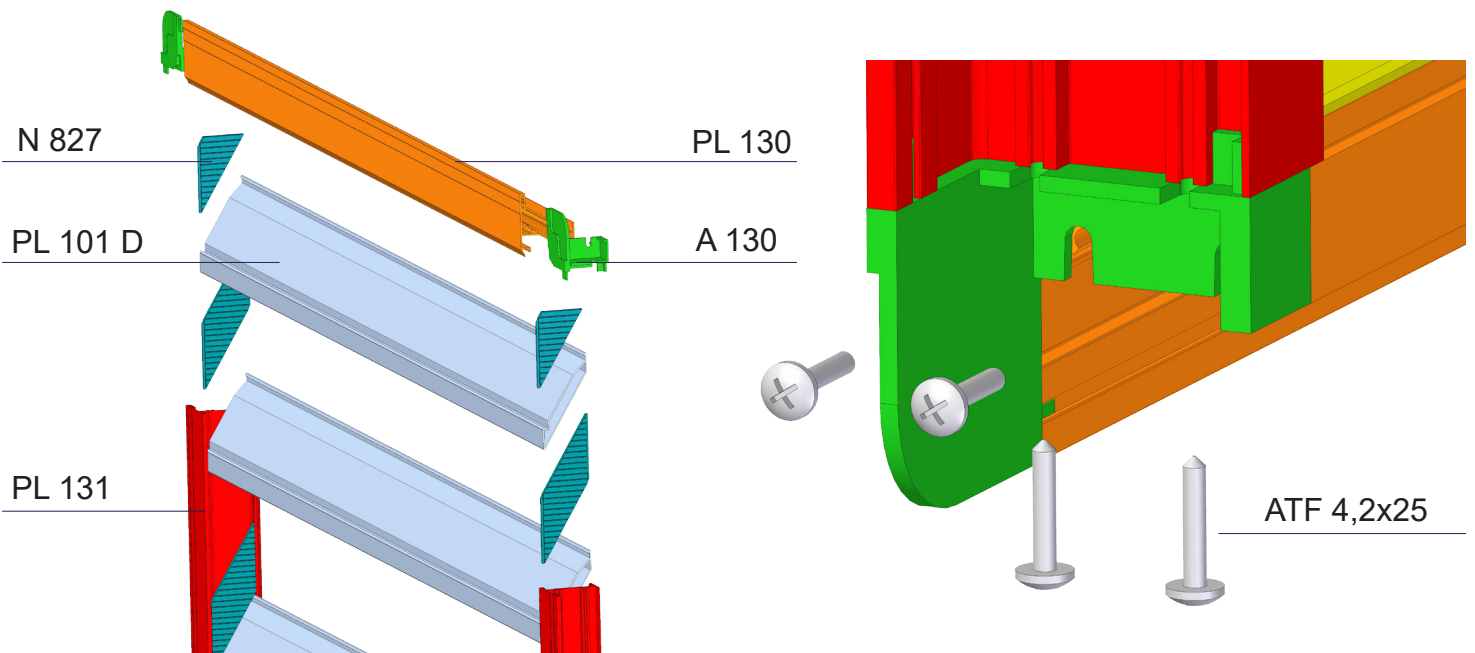


N 827
Box of 500 pcs.

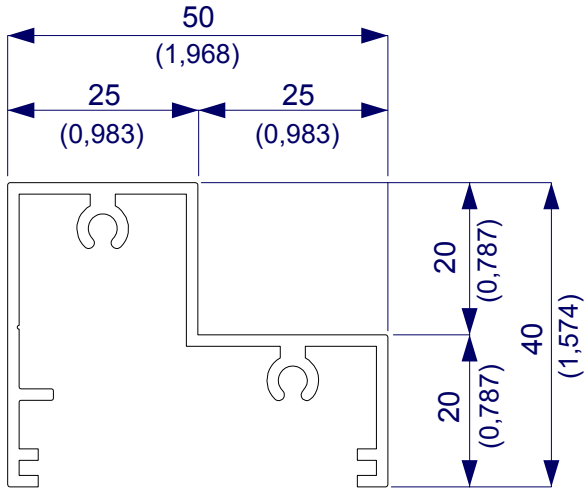


FORMULA

$B \text{ (PL 130)} = A - 100$
 $D \text{ (PL 131)} = C - 100$
 Length of blades (PL 101 D) = $A - 80$
 N° blades (C - 100) : 83,2



Profiles and accessories

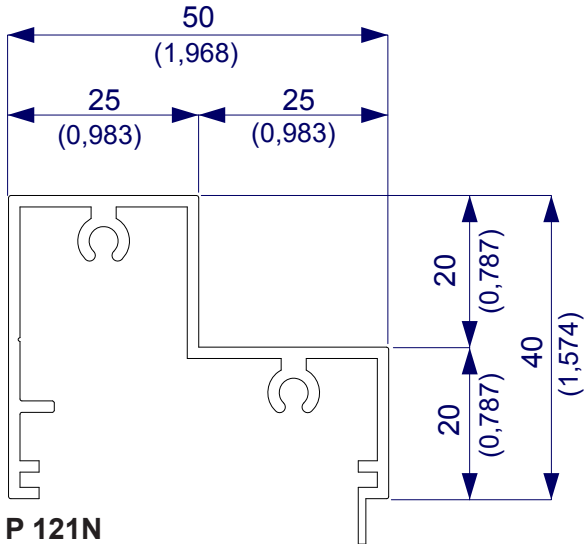
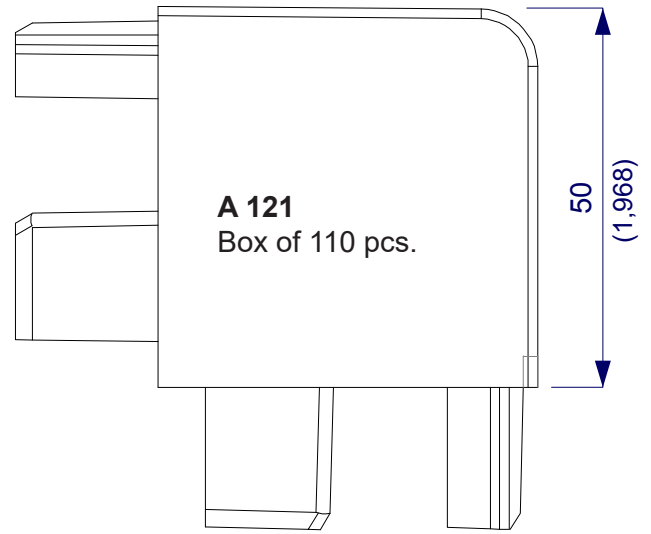


P 121

Weight kg/m 0,722

(lb/ft 0,485)

Bundle of 4 bars

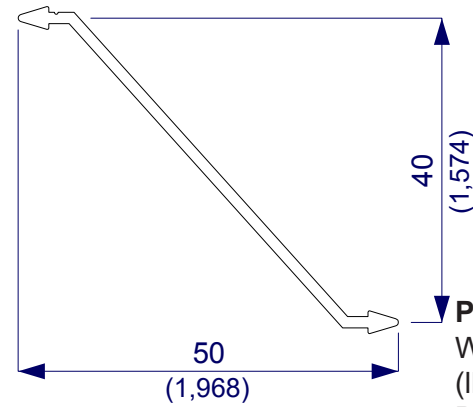


P 121N

Weight kg/m 0,727

(lb/ft 0,488)

Bundle of 4 bars

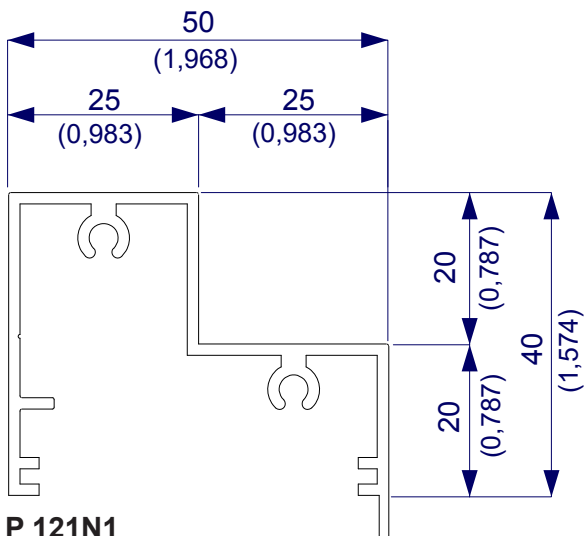


P 129

Weight kg/m 0,283

(lb/ft 0,190)

Bundle of 10 bars

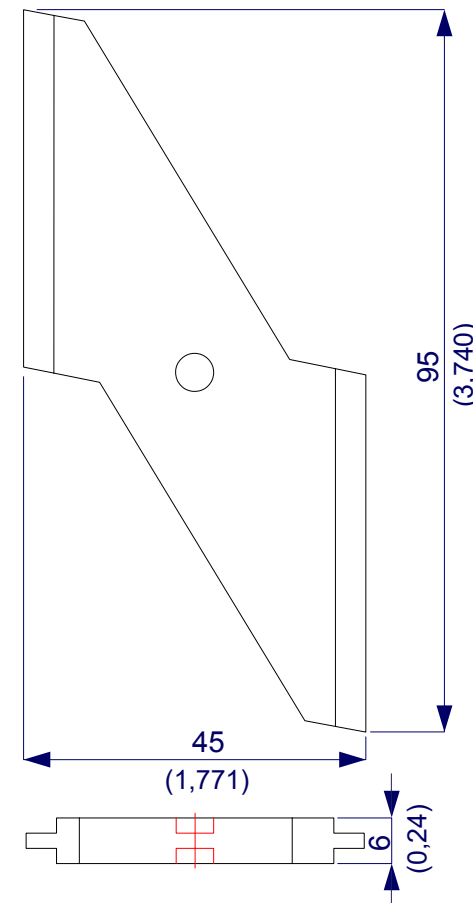


P 121N1

Weight kg/m 0,730

(lb/ft 0,490)

Bundle of 4 bars



N 825

Box of 500 pcs.

P 121 - P 129 - N 825

FORMULA:

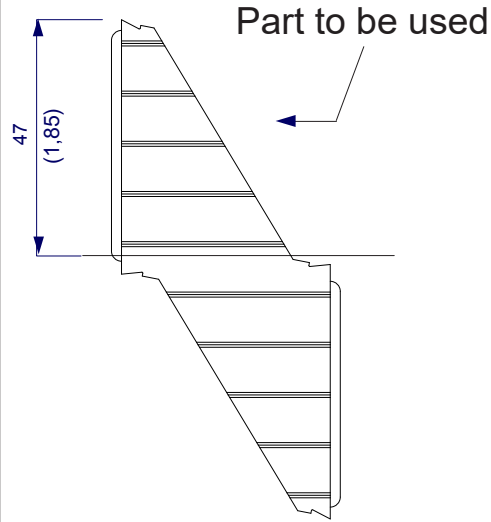
$B = A - 80 \text{ mm}$

$C = A - 40 \text{ mm}$

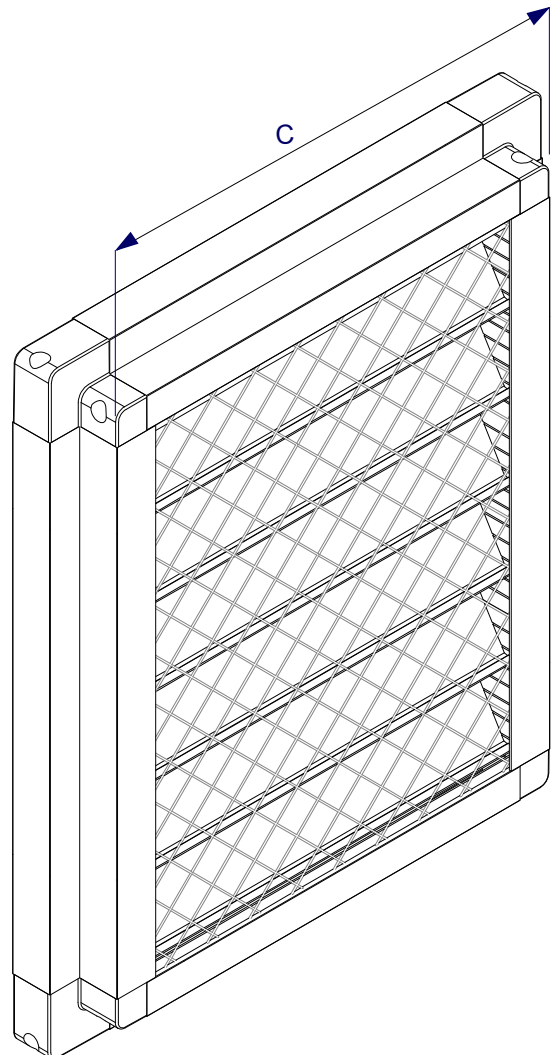
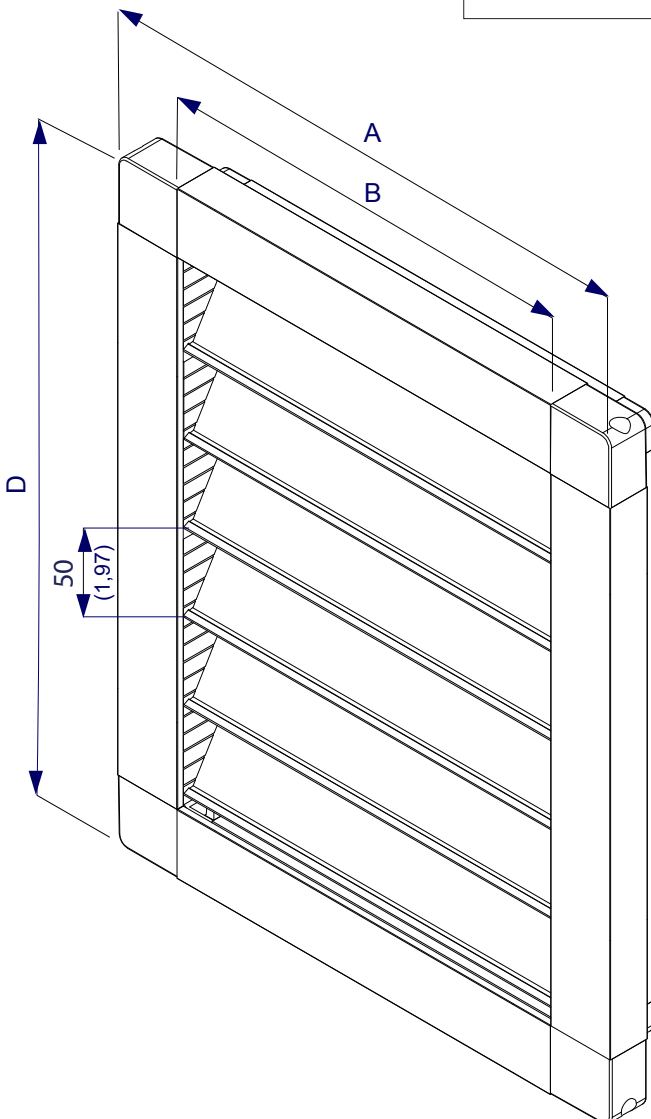
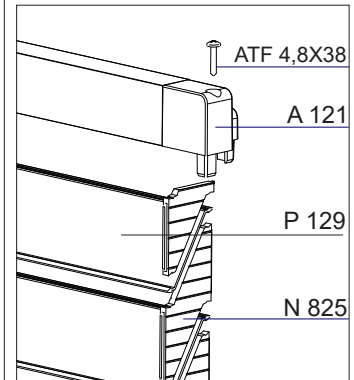
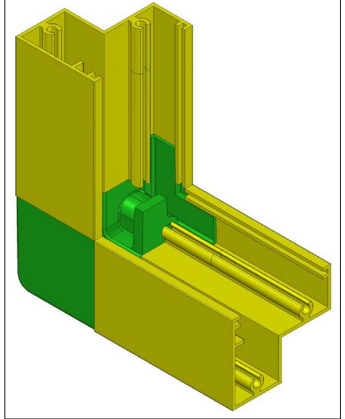
Length of blades = $A - 58 \text{ mm}$

N° blades = $(D-74) : 51,5 \text{ mm}$

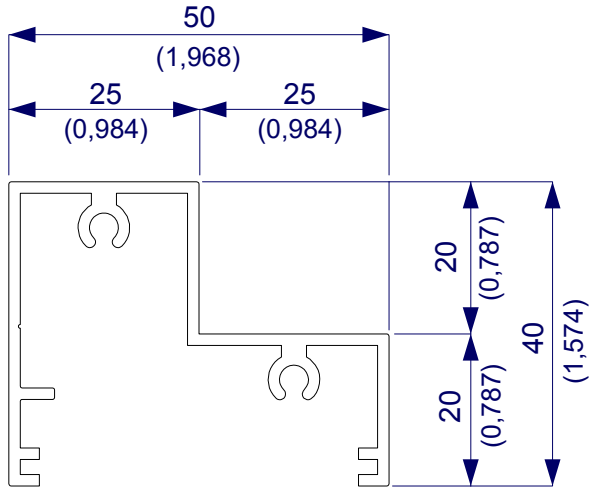
Cut of the spacer N 825 for placing the first blade



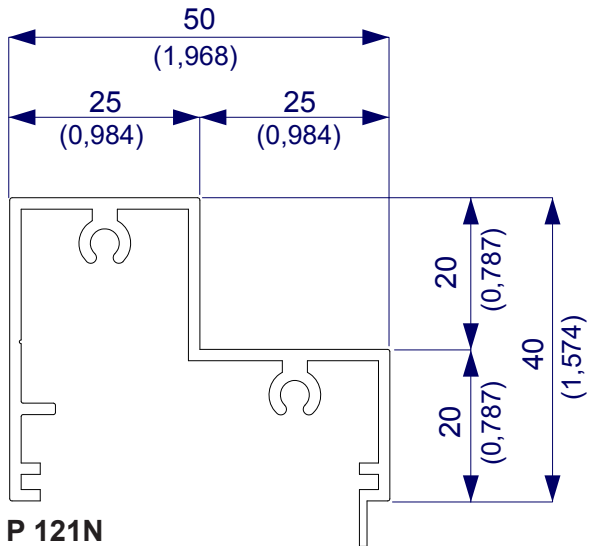
Cut at 47 mm from the top



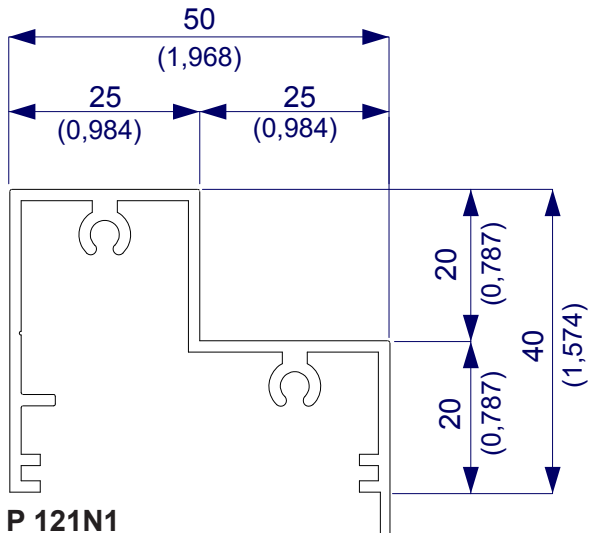
Profiles and accessories



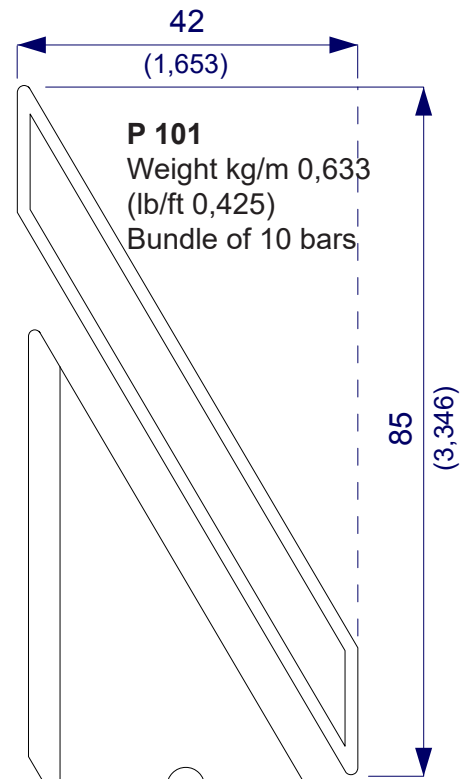
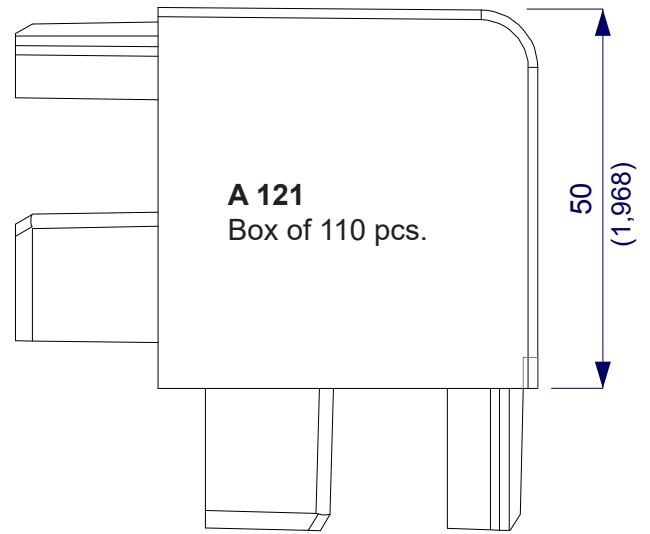
P 121
 Weight kg/m 0,722
 (lb/ft 0,485)
 Bundle of 4 bars



P 121N
 Weight kg/m 0,727
 (lb/ft 0,488)
 Bundle of 4 bars

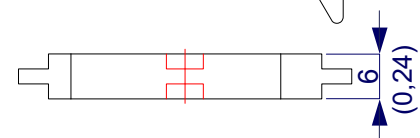


P 121N1
 Weight kg/m 0,730
 (lb/ft 0,490)
 Bundle of 4 bars



P 101
 Weight kg/m 0,633
 (lb/ft 0,425)
 Bundle of 10 bars

N 827
 Box of 500 pcs.



P 121 - P 101 - N 827

FORMULA:

$B = A - 80 \text{ mm}$

$C = A - 40 \text{ mm}$

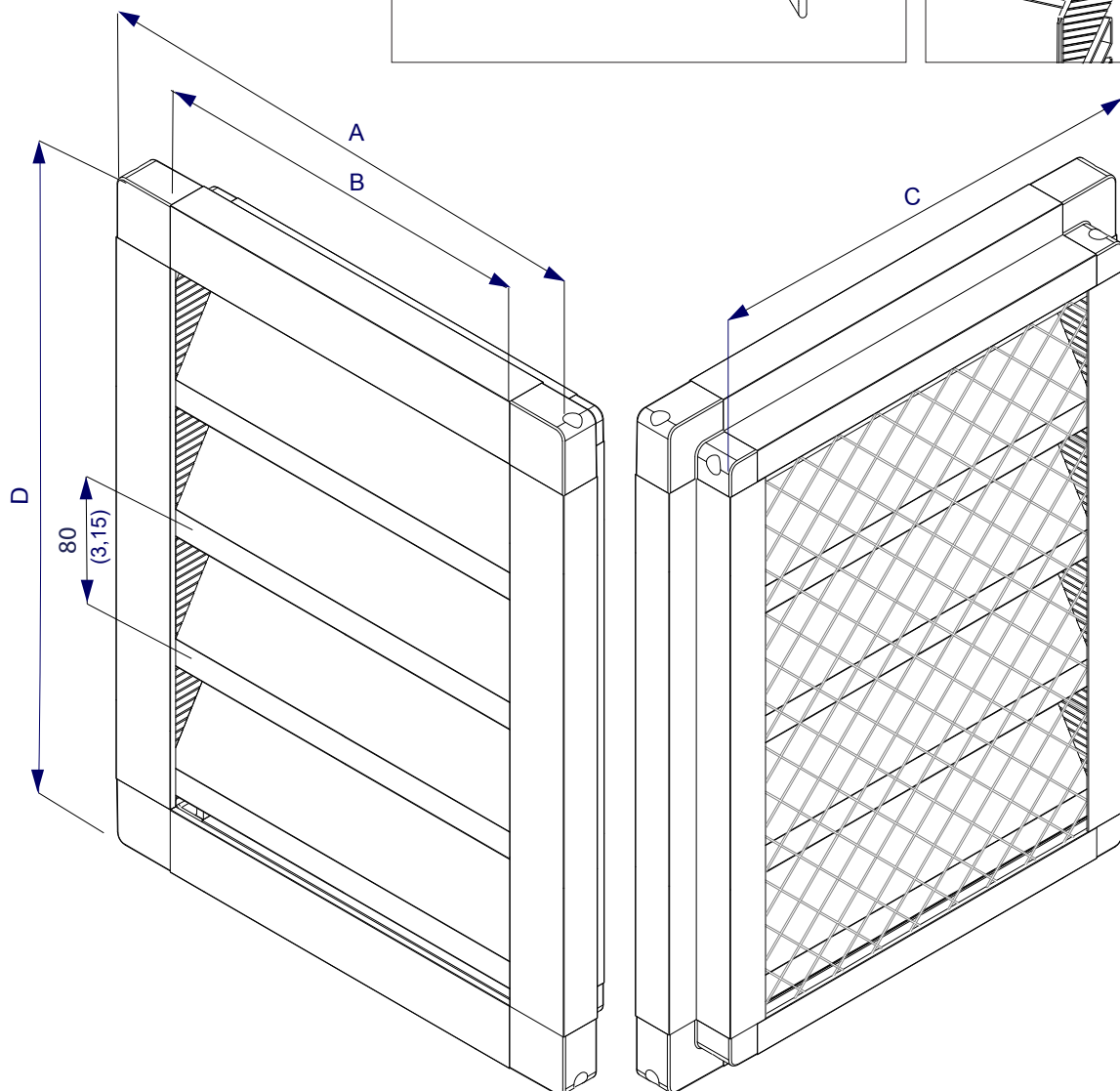
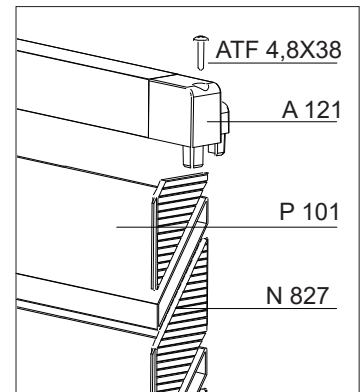
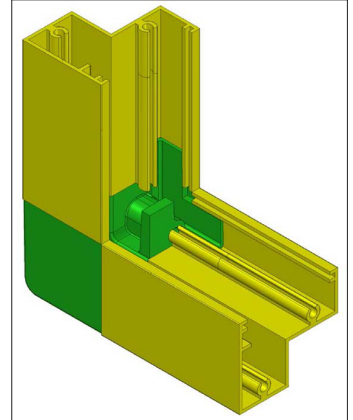
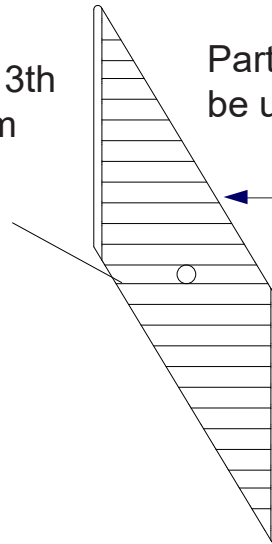
Length of blades = $A - 58 \text{ mm}$

$N^\circ \text{ blades} = (D - 63) : 83,2 \text{ mm}$

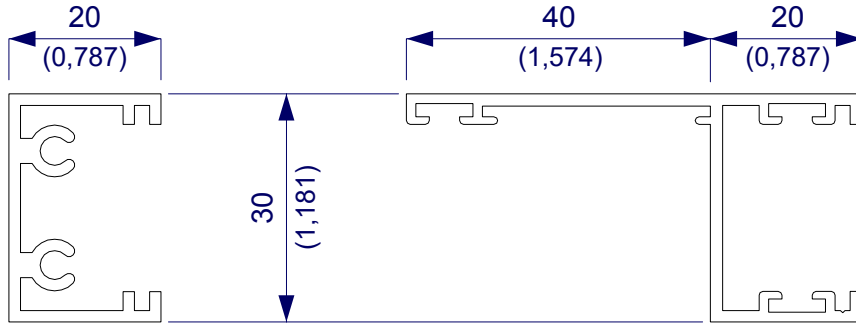
Cut of the spacer N 827
 for placing the first blade

Cut at 13th
 line from
 the top

Part to
 be used

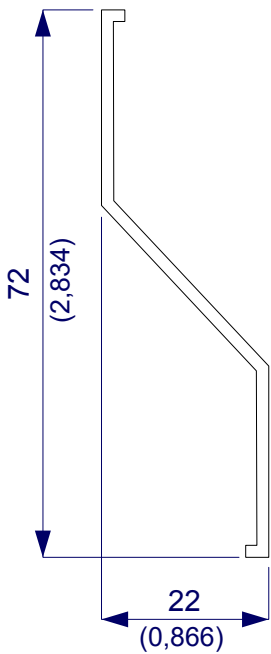


Profiles and accessories



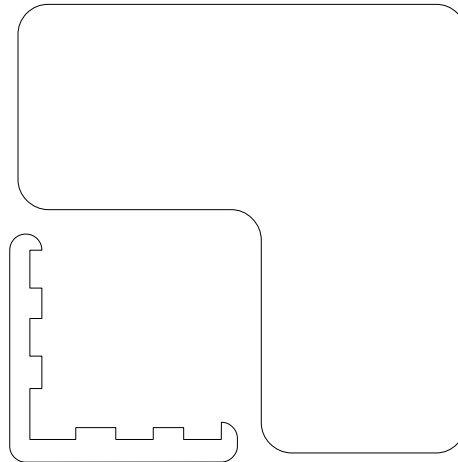
P 123
Weight kg/m 0,461
(lb/ft 0,310)
Bundle of 6 bars

P 122
Weight kg/m 0,567
(lb/ft 0,381)
Bundle of 4 bars

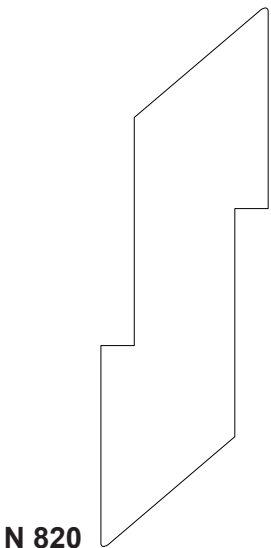


P 124
Weight kg/m 0,365
(lb/ft 0,245)
Bundle of 10 bars

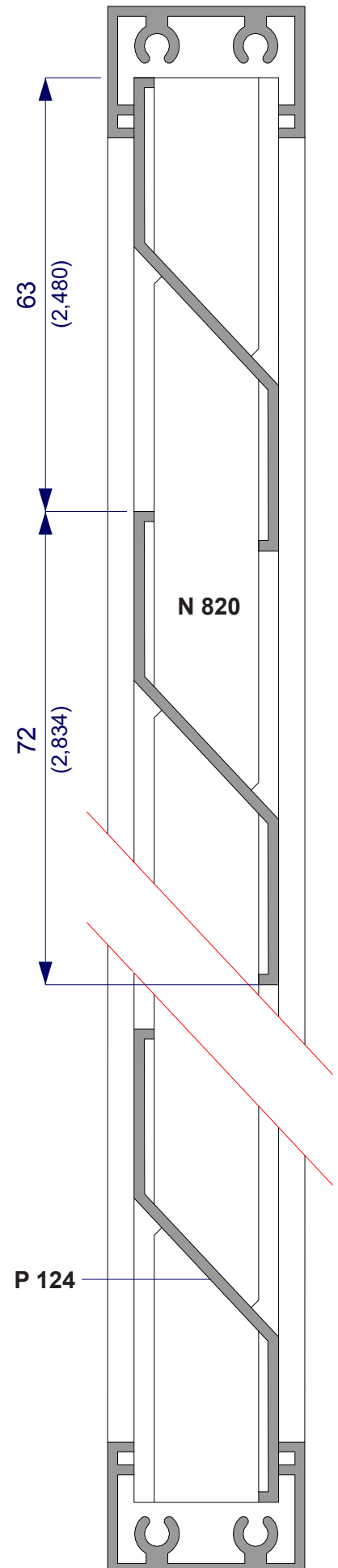
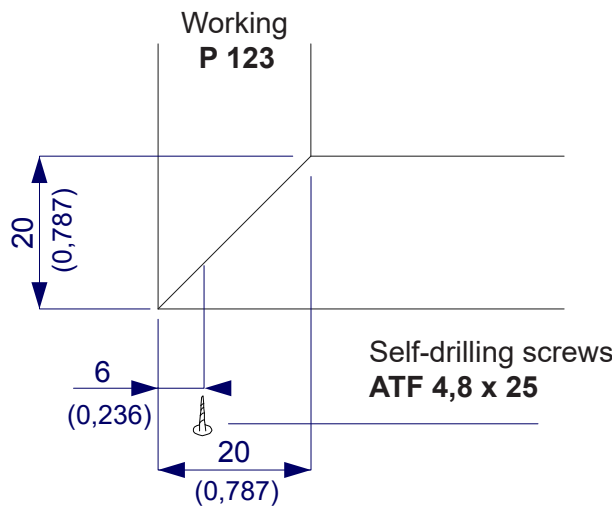
Nylon corners to reinforce
the **P122** frame



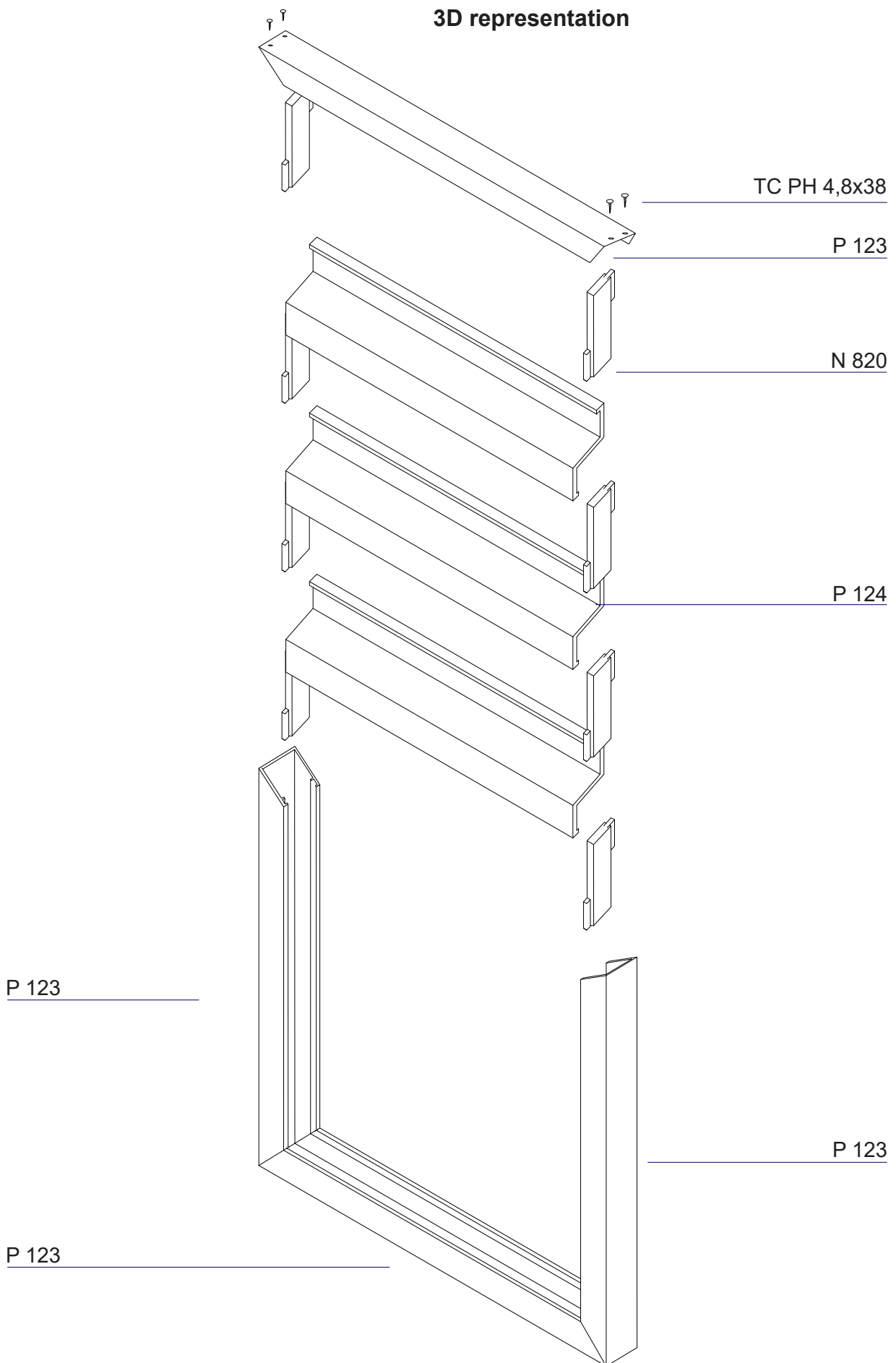
N 810
Box of 400 pcs.



N 820
Box of 450 pcs.



3D representation



Profili ed accessori per realizzare separatori di gocce in alluminio, polipropilene ed acciaio inox.

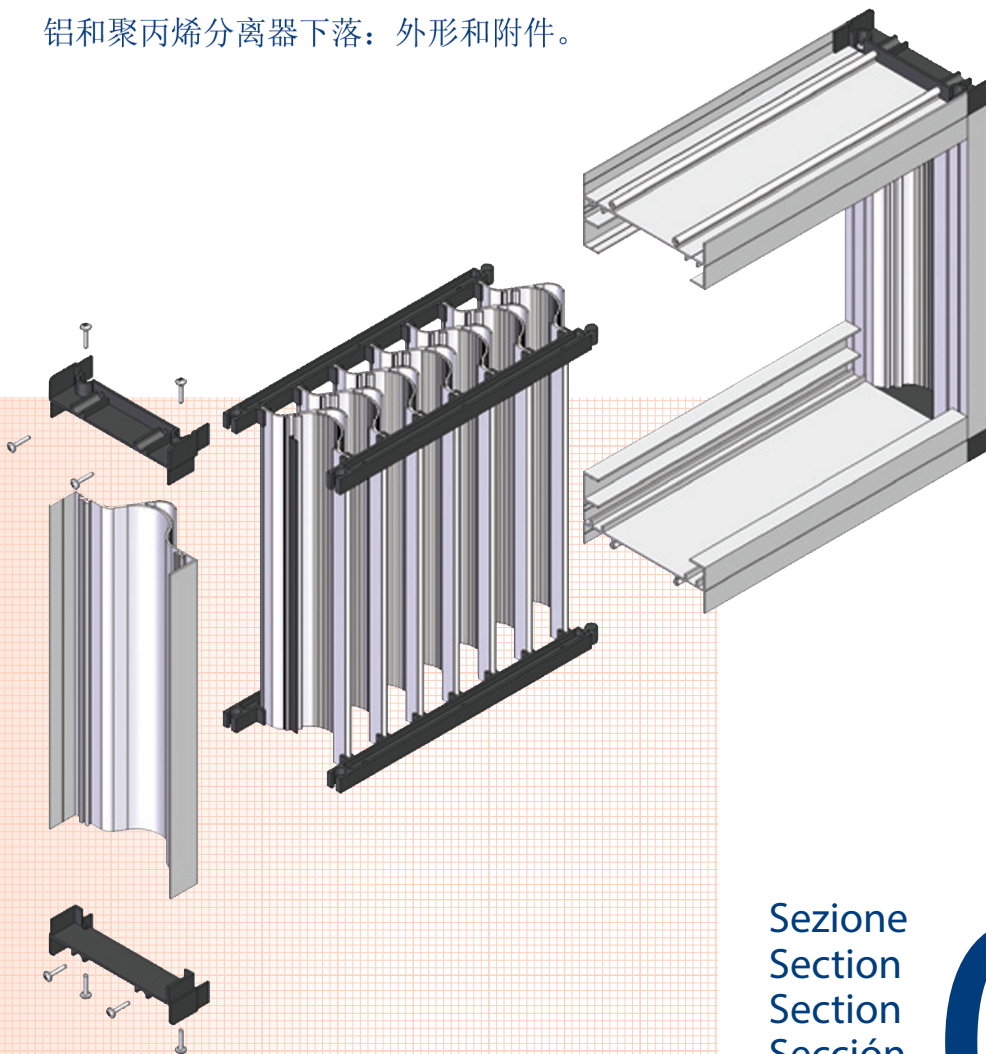
Aluminium, polypropylene and stainless steel profiles and accessories to build mist eliminators.

Séparateurs de gouttes en aluminium, polypropylène et acier inoxydable: profils et accessoires.

Separadores de gotas en aluminio, polipropileno y acero inoxidable: perfiles y accesorios.

Aluminium, polypropylene und Edelstahl profilen und Zubehör für Tropfenabscheider.

铝和聚丙烯分离器下落：外形和附件。



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09

Mist eliminators are available in two different versions: the first has aluminium blades (P 100 or P 180) and the second one has polypropylene blades (PP 106, PP 154 and PP 175).

They are assembled with the use of nylon “combs” that support the profiles in a vertical position and determine the distance between the separator profiles. The combs are available in different pitches: 25 mm (N 900), 40 mm (N 826) and 33 mm (N 901-33). They are used to position the mist eliminator profiles and must be placed at the bottom and at the top of the structure. In cases where separators used are particularly long, it is possible to place a “comb” in the middle of the structure as an additional support.

The mist eliminators have grooves where gasket (G 65) is placed to increase or decrease the surface of exchange and to modify the turbulence in order to split more or less water droplets from the air.

This system has the advantage of having two separators (P 100 and P 180) which can be used for different applications (air speed and drop diameter) as it is possible to decide their performance.

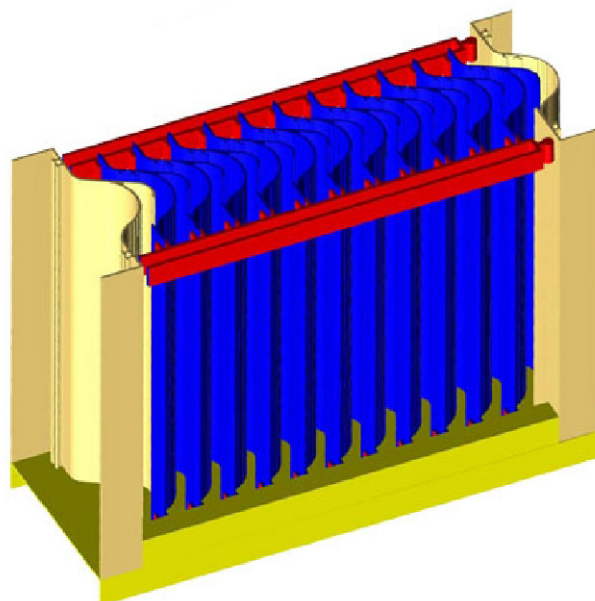
Another important point is that changes in performance are achieved through the variable “comb’s” pitch of 25, 33 or 40 mm.

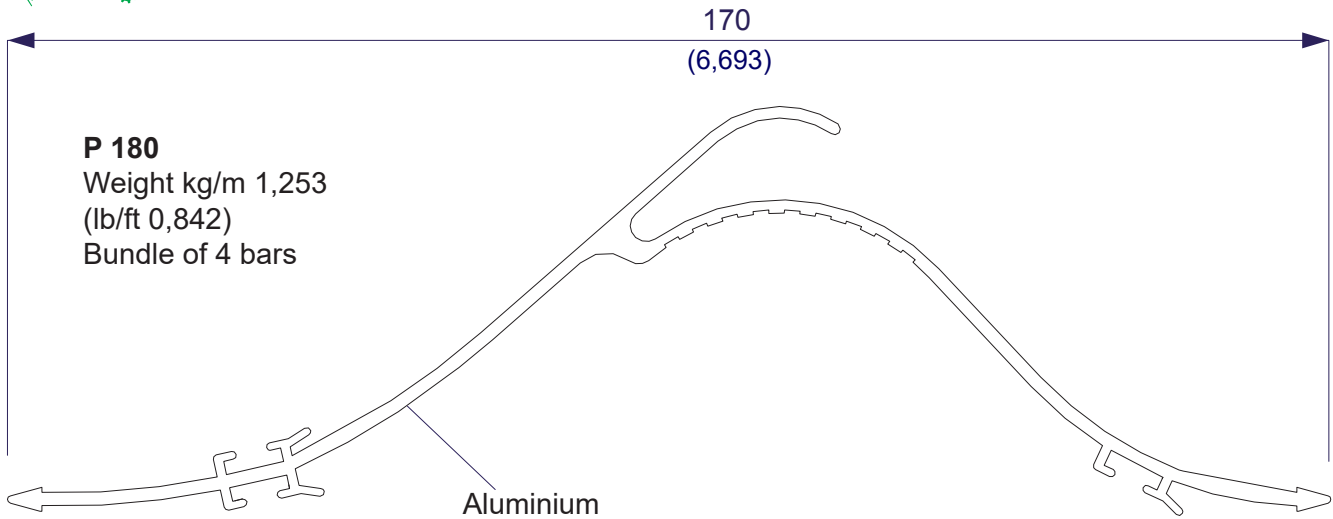
The profiles P 100 and PP 106 can be assembled in their “special” frame by aluminium profiles P 110, P 111, P 112, P 113 with the corner A 140.

The unique characteristic of this frame is represented by the mist eliminator blade shape of the two corner post profiles. For this characteristic, the mist eliminator has an exclusively special efficiency. The post profiles have two functions at the same time: they support the frame and work as mist eliminator blade themselves.

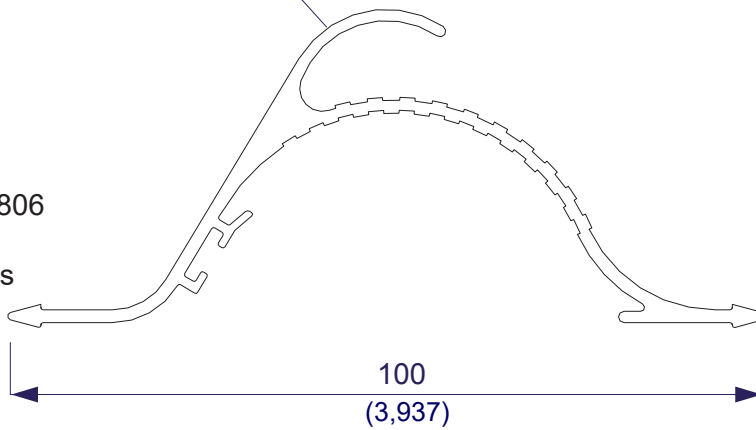
The frame is very easy to assemble and it is solid even though in aluminium.

This section gives you some technical information about the characteristics of the mist eliminator. More technical data (on pressure drop, minimal diameter of the drop, air velocity, etc.) are available on request.

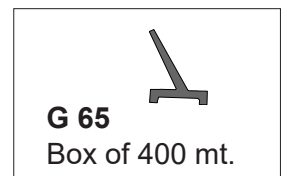




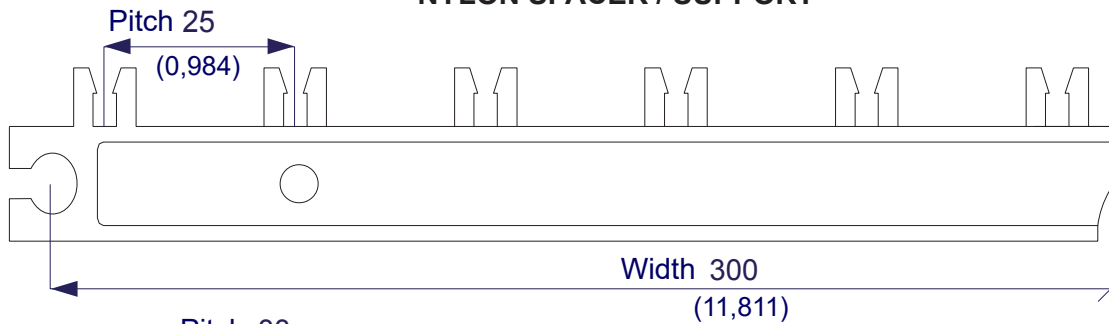
P 100
Weight kg/m 0,806
(lb/ft 0,542)
Bundle of 4 bars



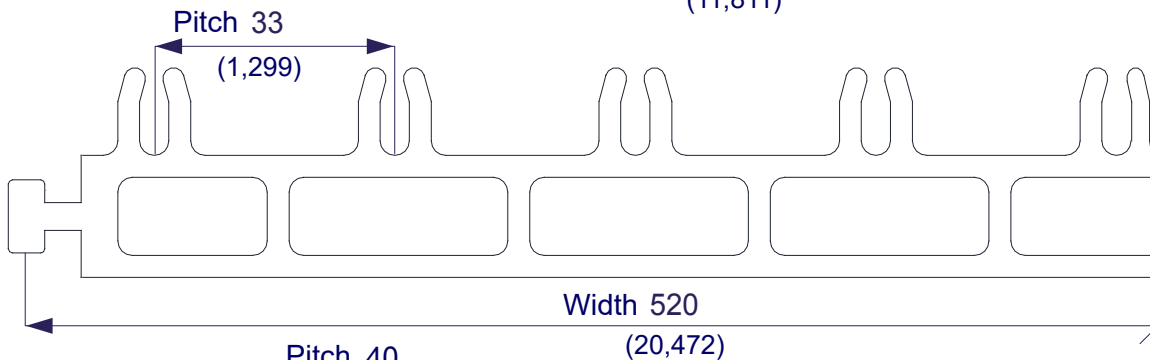
GASKET



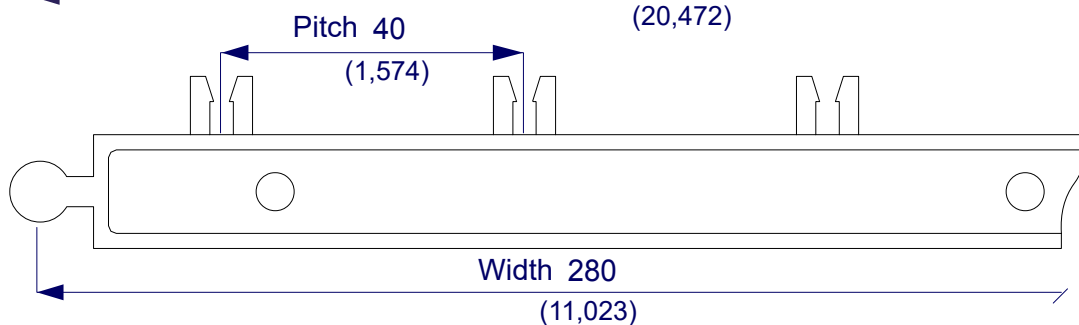
NYLON SPACER / SUPPORT



N 900
Box of 100 pcs.



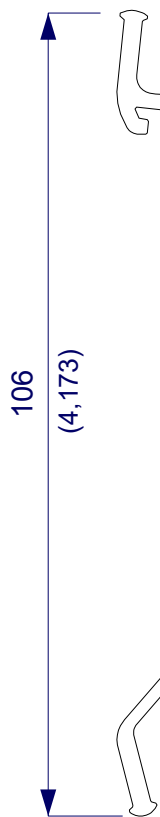
N 901-33
Box of 250 pcs.



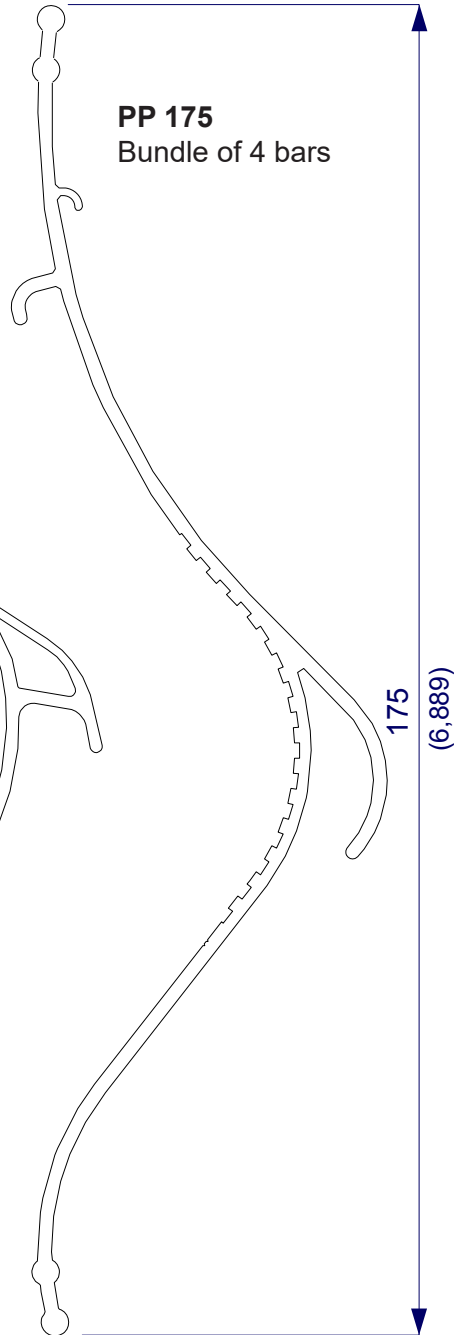
N 826
Box of 100 pcs.

MATERIAL POLYPROPYLENE

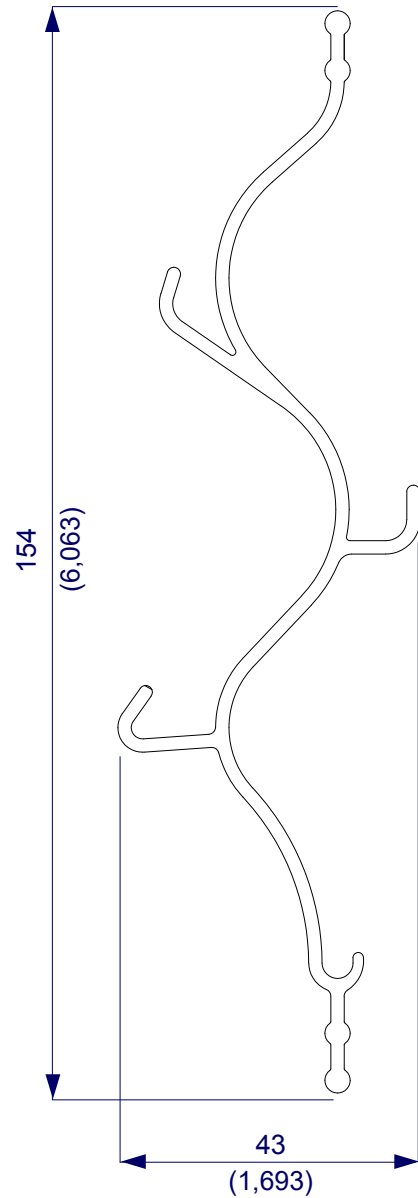
PP 106
Bundle of 4 bars

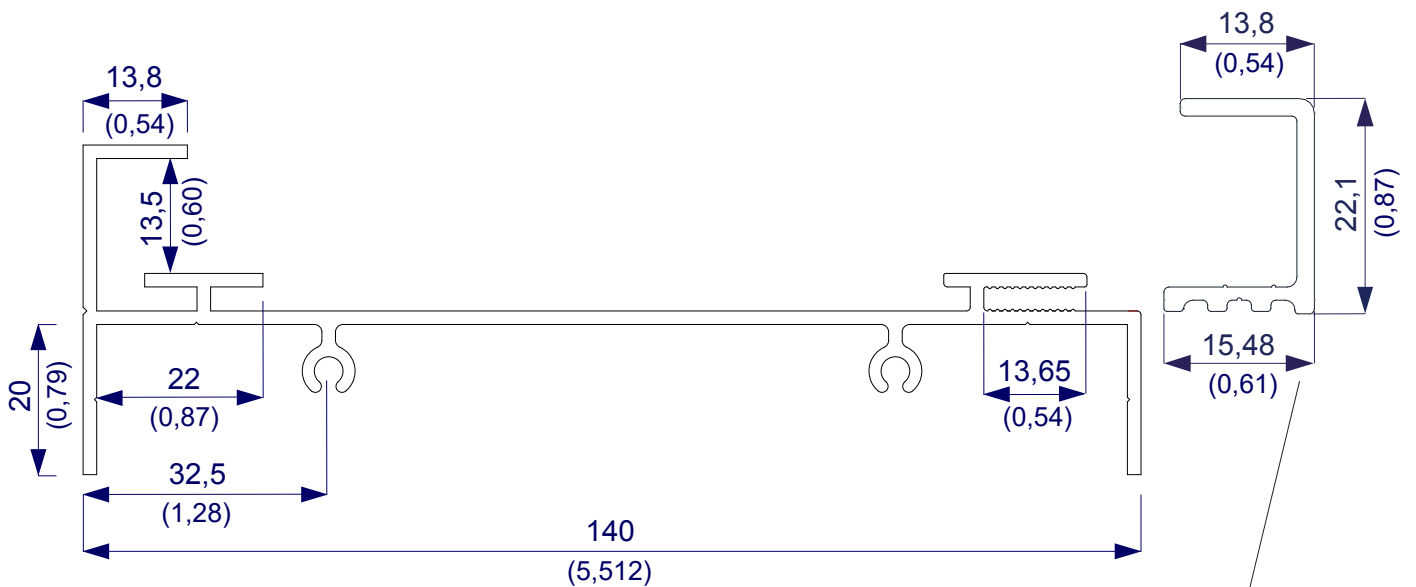
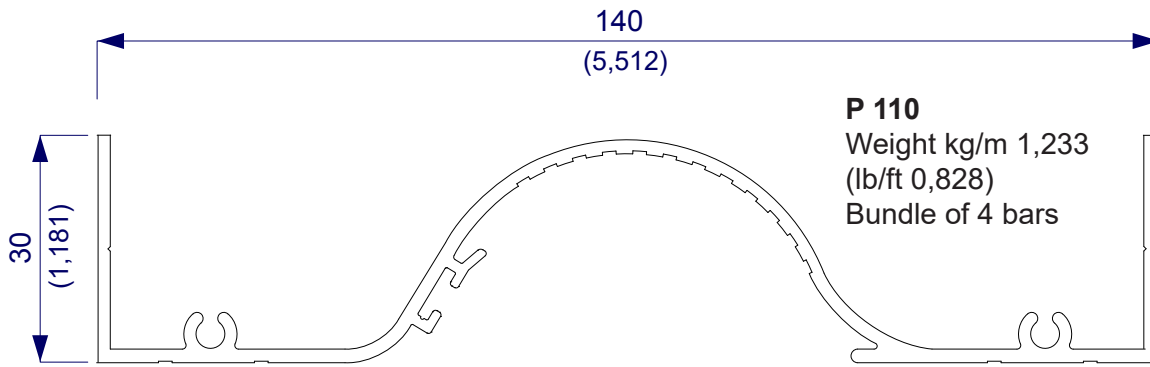


PP 175
Bundle of 4 bars

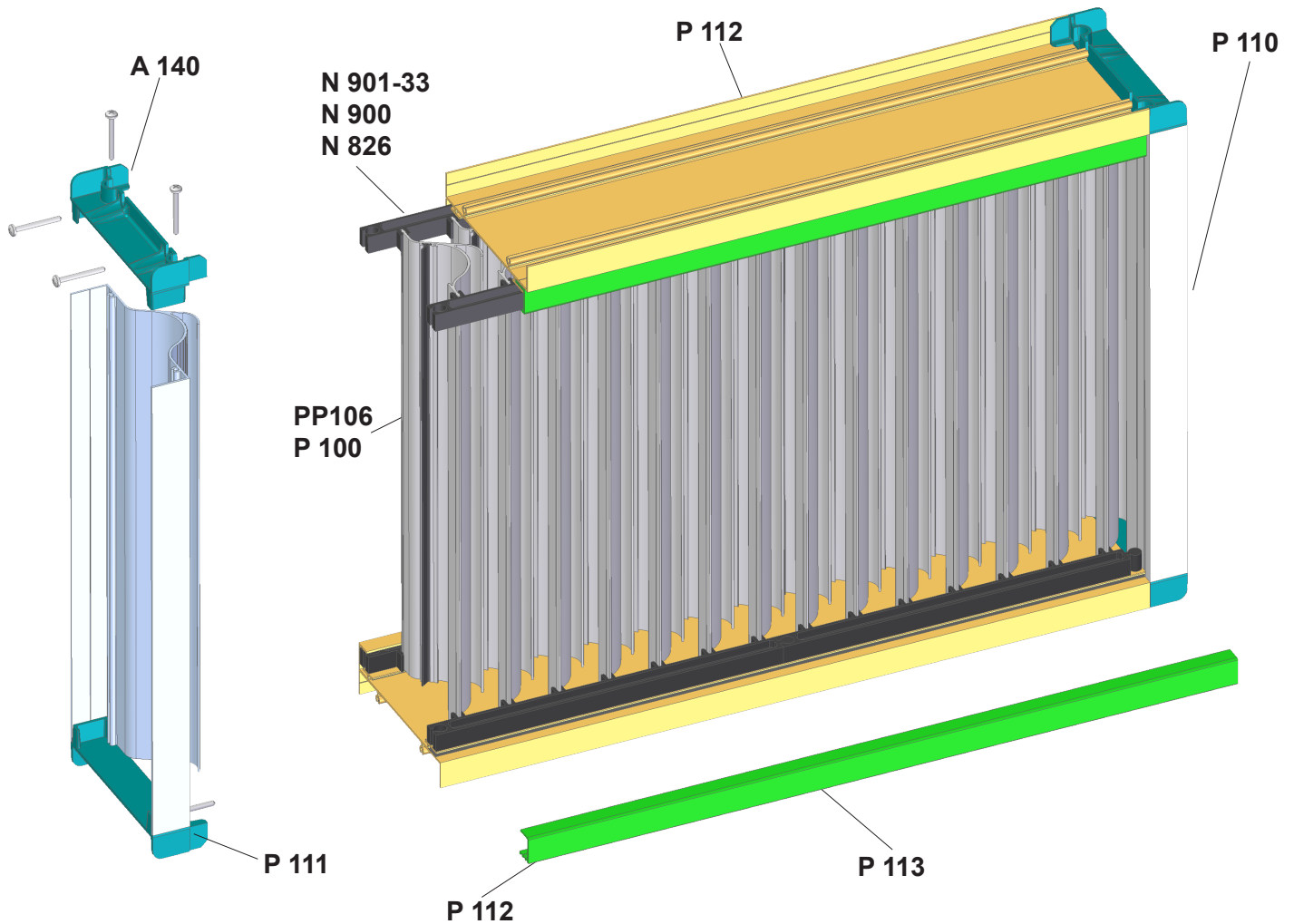


PP 154
Bundle of 4 bars

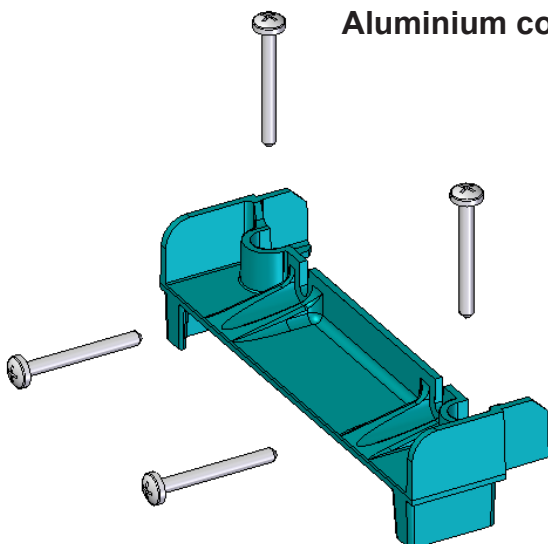




3D representation of aluminium or polypropylene mist eliminator assembled with the “special” frame P 110, P 111, P 112, P 113.



Aluminium corner for mist eliminator frame



A 140
Box of 60 pcs.

FORMULA:

B (P 112 / P 113) = A - 60 mm

D (P 110 / P 111) = C - 44 mm

H blades (PP 106 / P 100) = C - 54

Number of blades PITCH 25 (N 900)

Number of blades = $(A - 77) : 25$ (result for defects always an integer)

Number of combs

E = number of blades : 12 (result for excess always an integer)

Number of combs (N 900) = E x 4

Number of blades PITCH 33 (N 901-33)

Number of blades = $(A - 77) : 33$ (result for defects always an integer)

Number of combs

E = number of blades : 16 (result for excess always an integer)

Number of combs (N 901-33) = E x 4

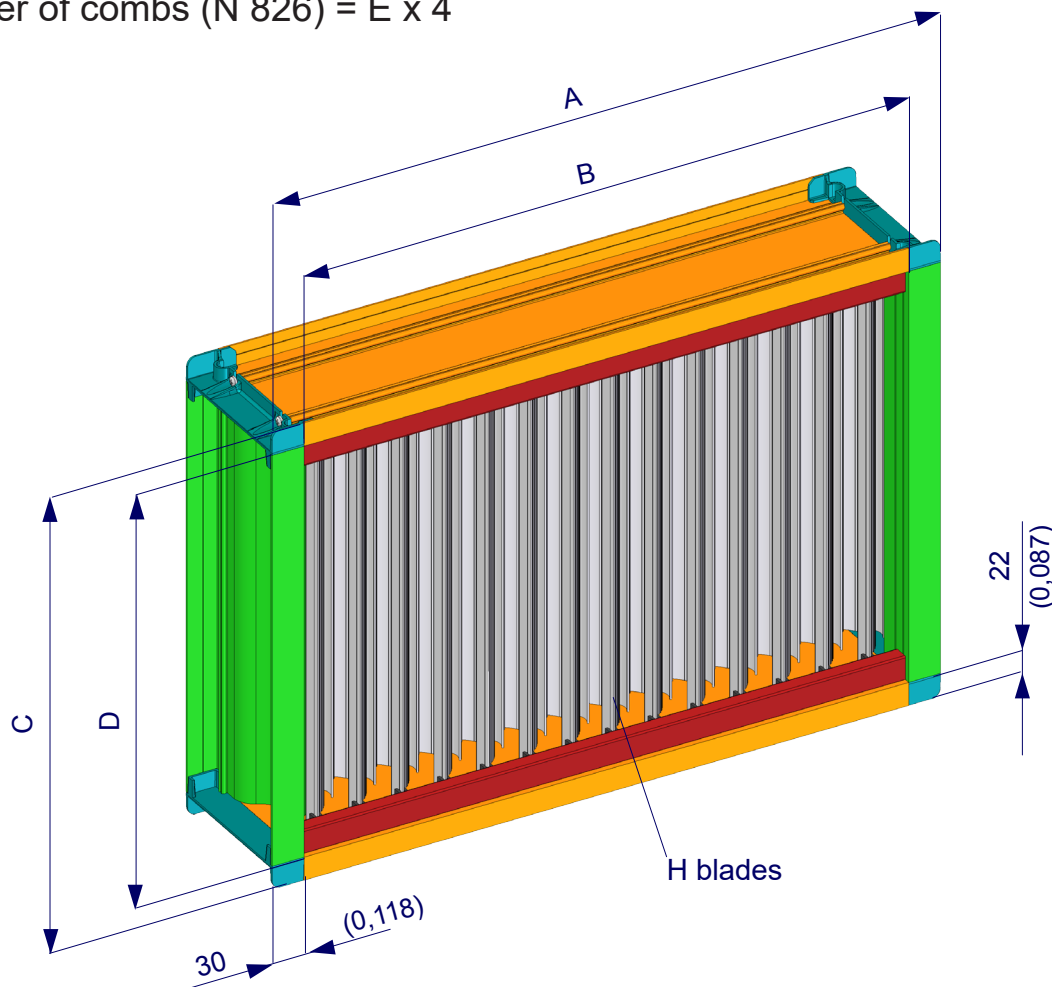
Number of blades PITCH 40 (N 826)

Number of blades = $(A - 77) : 40$ (result for defects always an integer)

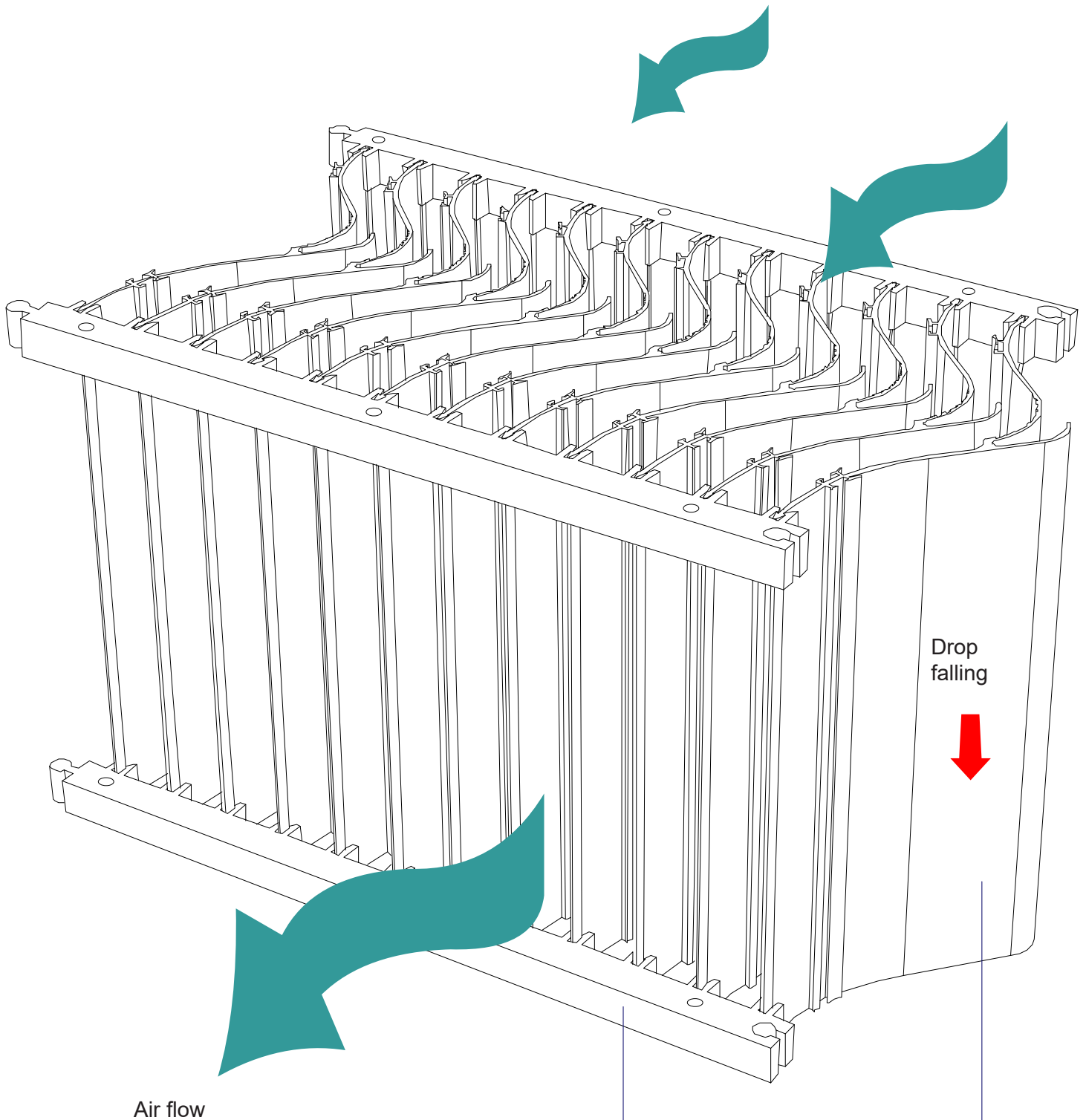
Number of combs

E = number of blades : 40 (result for excess always an integer)

Number of combs (N 826) = E x 4



3D representation of mist eliminator H 180 pitch 25 mm
(without gaskets)

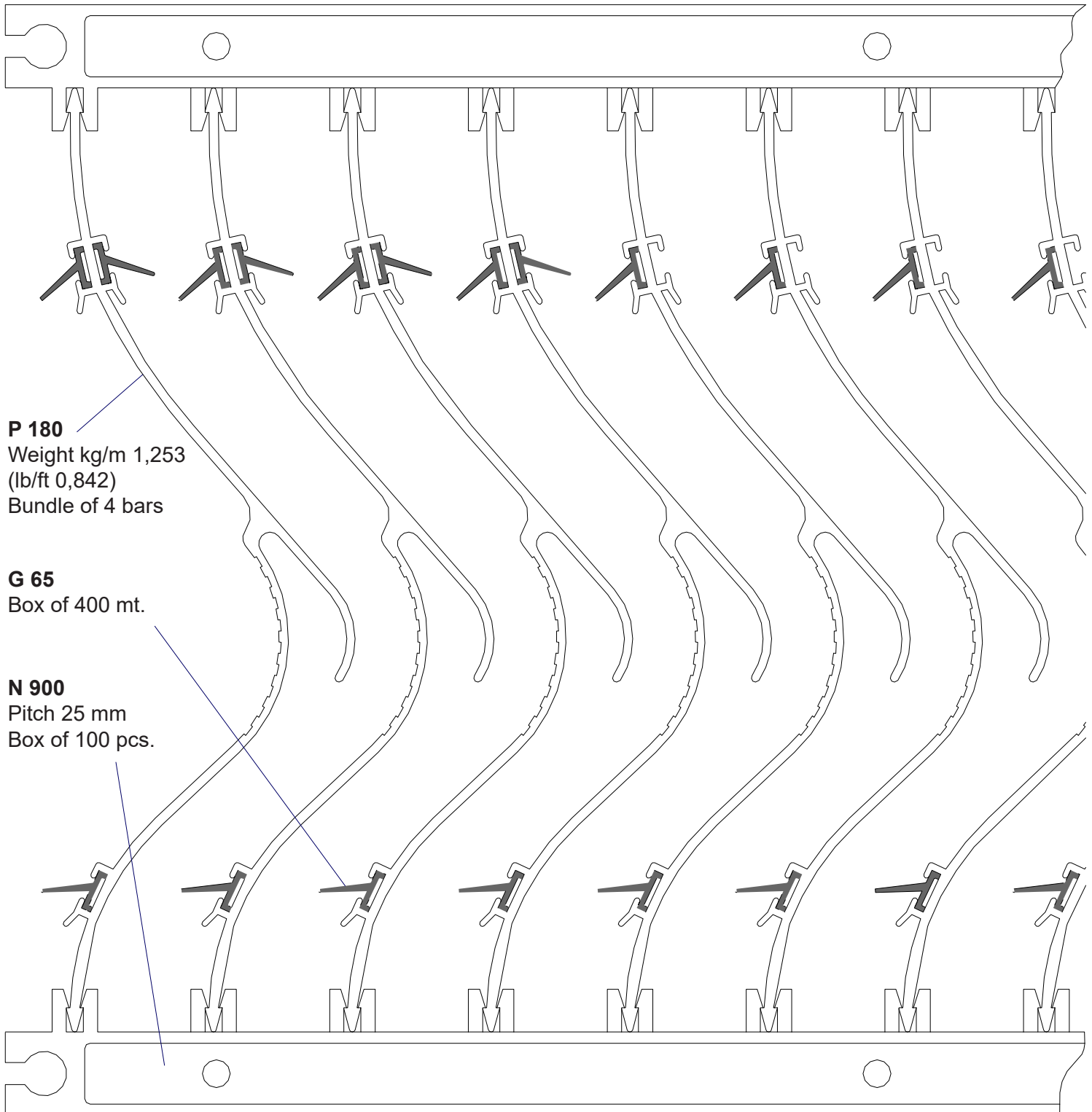


Air flow

N 900
Pitch 25 mm
Box of 100 pcs.

P 180
Weight kg/m 1,253
(lb/ft 0,842)
Bundle of 4 bars

Aluminium mist eliminator



P 180
Weight kg/m 1,253
(lb/ft 0,842)
Bundle of 4 bars

G 65
Box of 400 mt.

N 900
Pitch 25 mm
Box of 100 pcs.

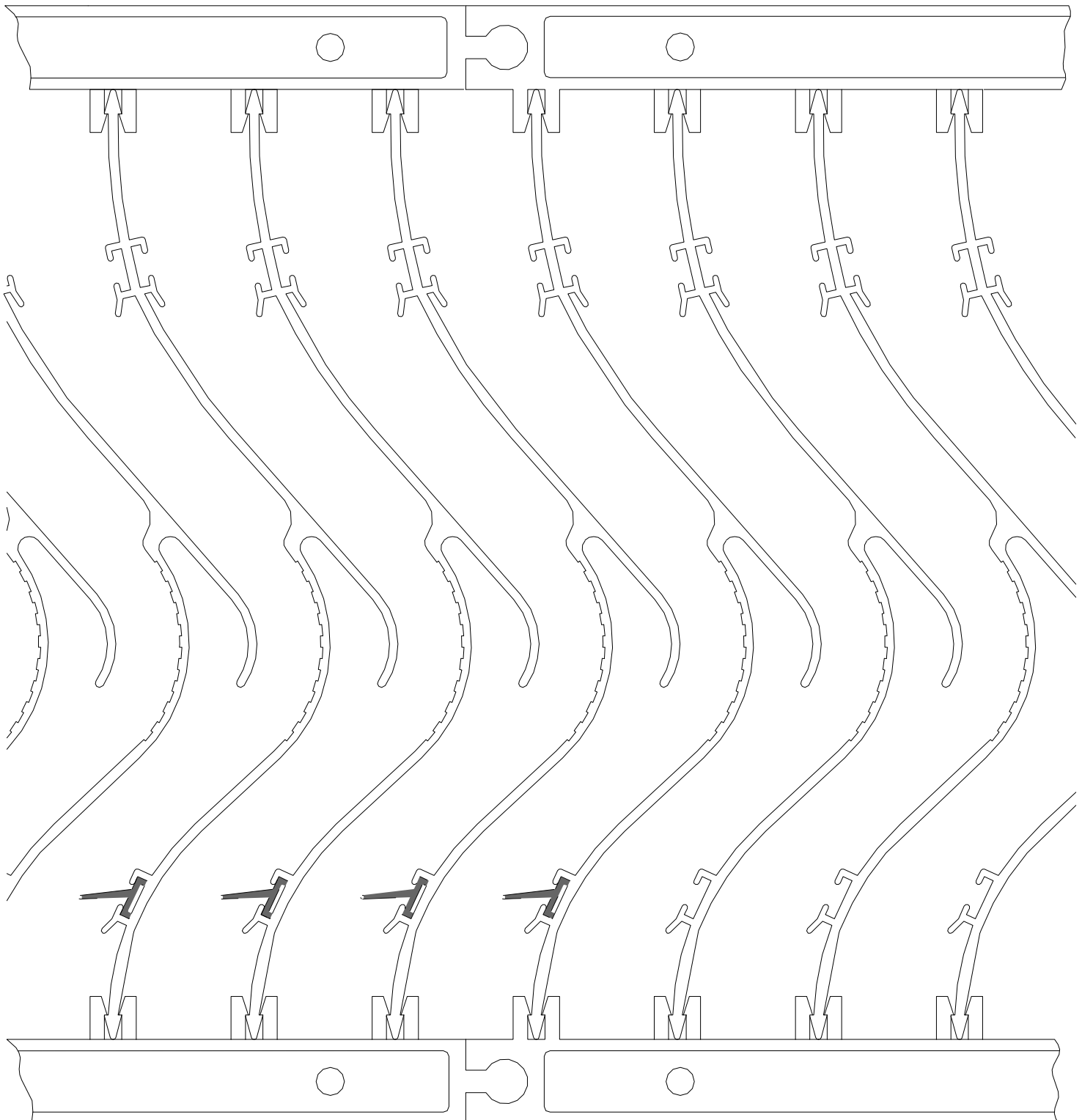
Way A

- Profile P 180 + 3 gaskets G 65.
- Range of application: Face velocity 1-2 m/sec.
- Air washer.
- Its main purpose is to remove the droplets at low face velocities.

Way B

- Profile P 180 + 2 gaskets G 65.
- Range of application: Face velocity 3-4 m/sec.
- Air washer.
- Air cooler.
- Its main purpose is to remove the droplets at low face velocities.

Aluminium mist eliminator



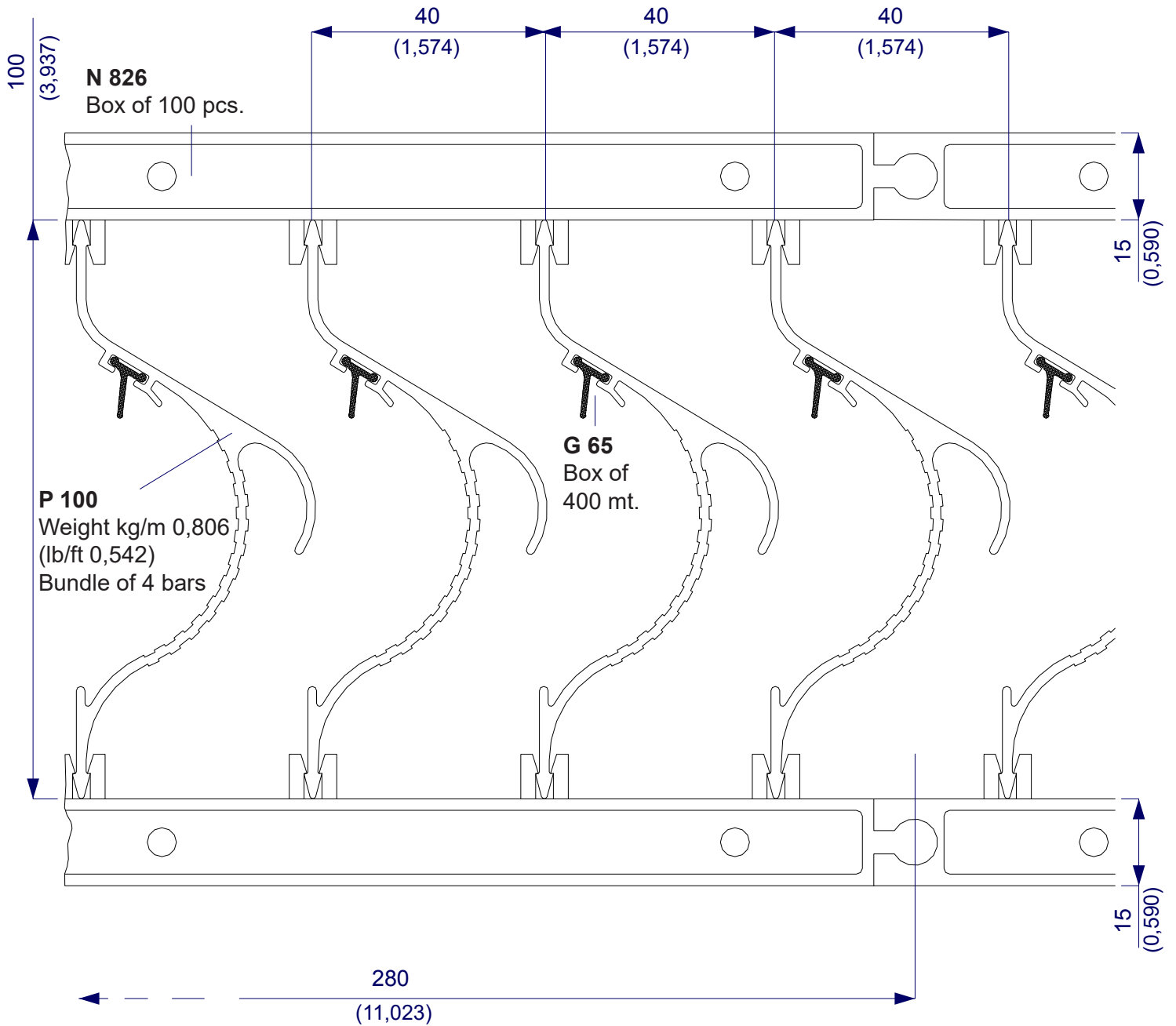
Way C

- Profile P 180 + 1 gasket G 65.
- Range of application: Face velocity 4-5 m/sec.
- Air cooler.
- Its main purpose is to remove the droplets entrained by the film of liquid formed on the cooling fins.

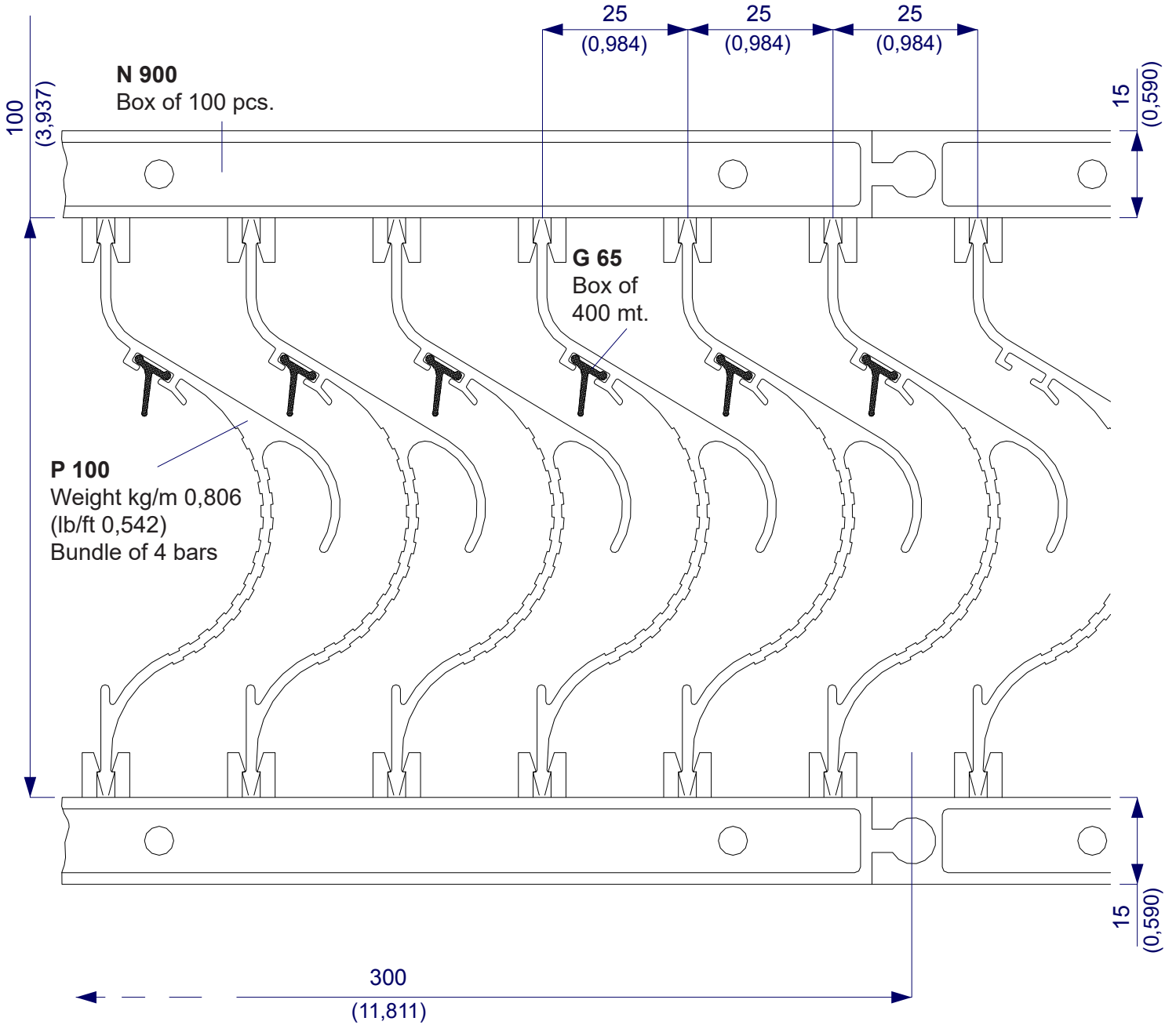
Way D

- Profile P 180.
- Range of application: Face velocity 5-6 m/sec.
- Air cooler.
- Its main purpose is to remove the droplets entrained by the film of liquid formed on the cooling fins.

2D representation of mist eliminator H 100 pitch 40 mm



2D representation of mist eliminator H 100 pitch 25 mm



Profili di alluminio ed accessori per canali.

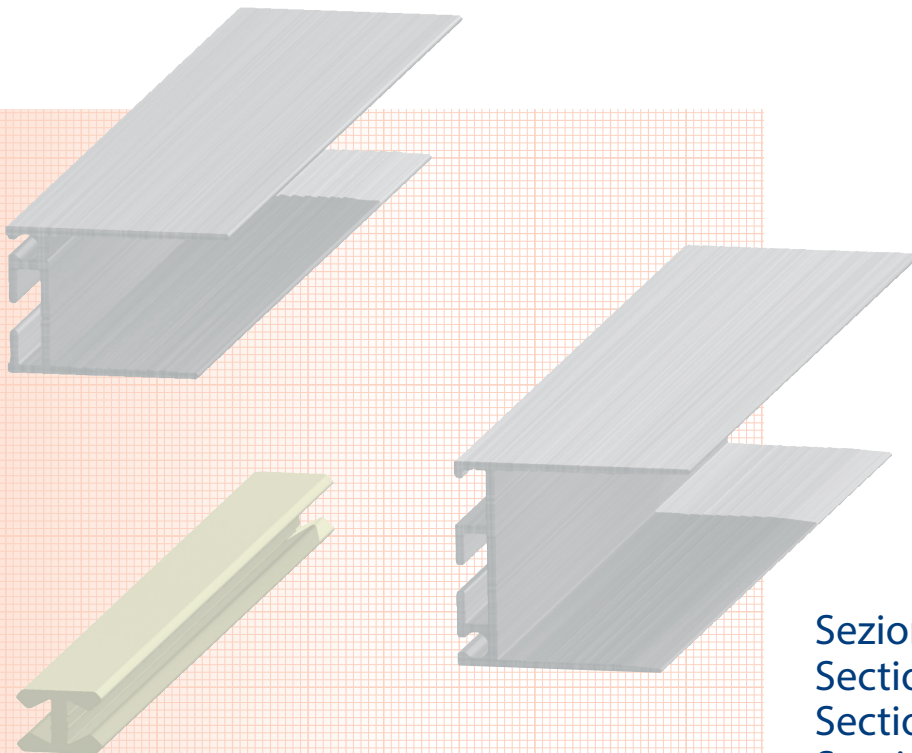
Aluminium air duct profiles and accessories.

Profils aluminium et accessoires pour canalisation.

Perfiles en aluminio y accesorios para la canalización del aire.

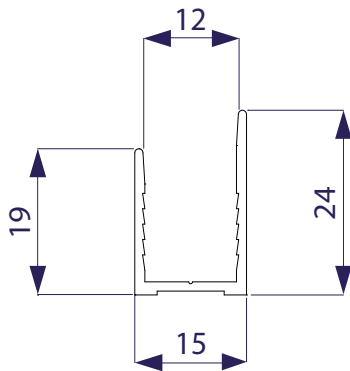
Aluminium Luftkanal Profilen und Zubehör.

铝外形为凹线。

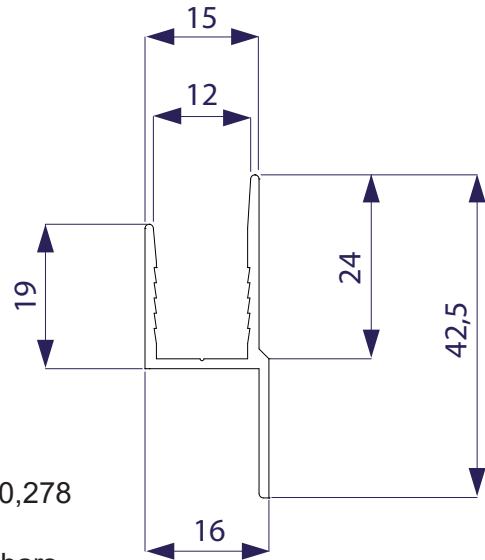


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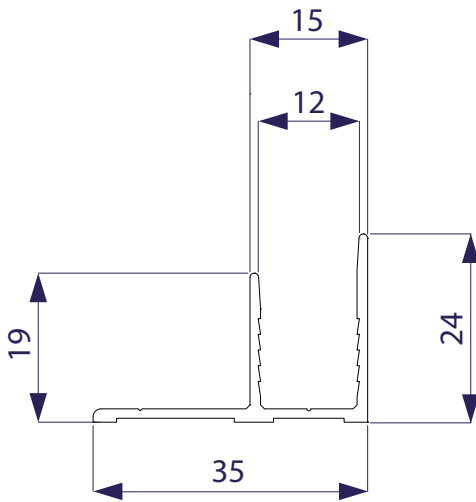
10



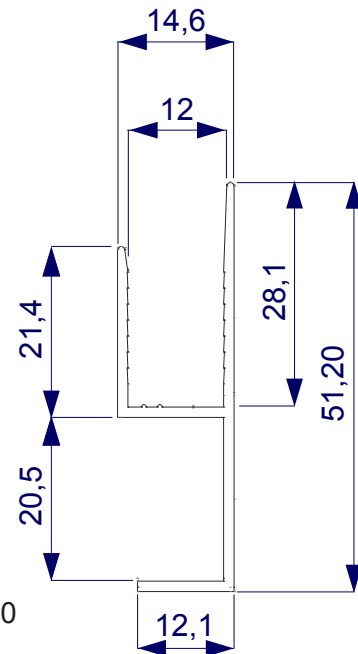
P 152-12
 Weight kg/m 0,192
 (lb/ft 0,129)
 Bundle of 10 bars



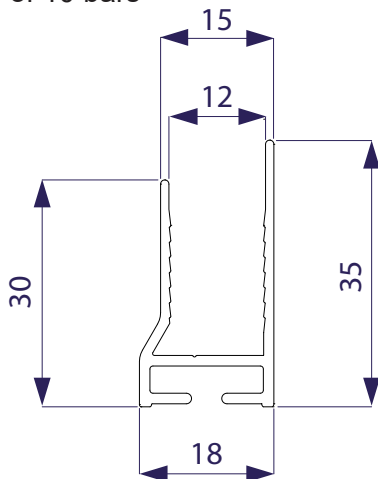
P 153-12
 Weight kg/m 0,278
 (lb/ft 0,187)
 Bundle of 10 bars



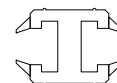
P 154-12
 Weight kg/m 0,265
 (lb/ft 0,178)
 Bundle of 10 bars



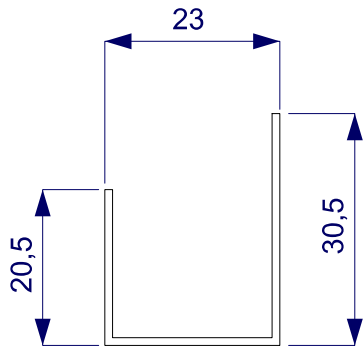
P 158-12
 Weight kg/m 0,330
 (lb/ft 0,222)
 Bundle of 10 bars



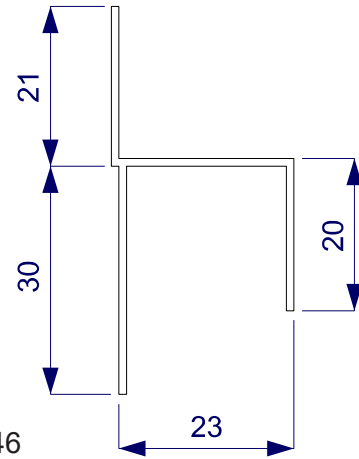
P 161-12
 Weight kg/m 0,326
 (lb/ft 0,219)
 Bundle of 10 bars



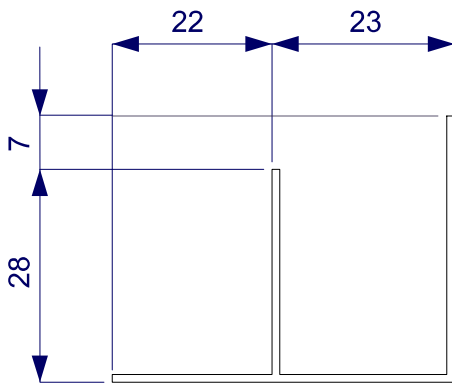
PVC 161-G
 Bundle of 10 bars



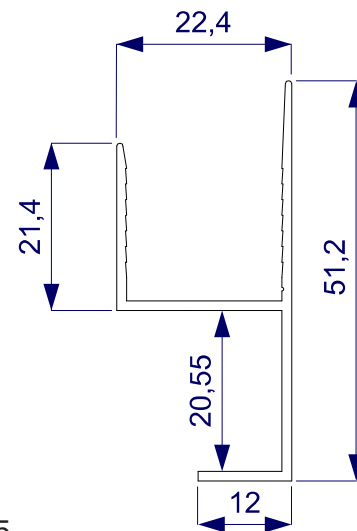
P 152
 Weight kg/m 0,271
 (lb/ft 0,182)
 Bundle of 10 bars



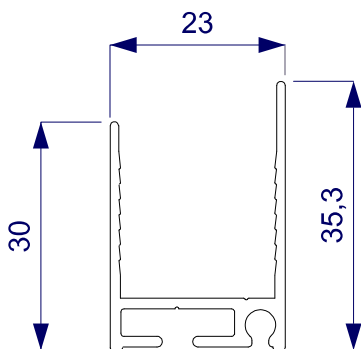
P 153
 Weight kg/m 0,346
 (lb/ft 0,232)
 Bundle of 10 bars



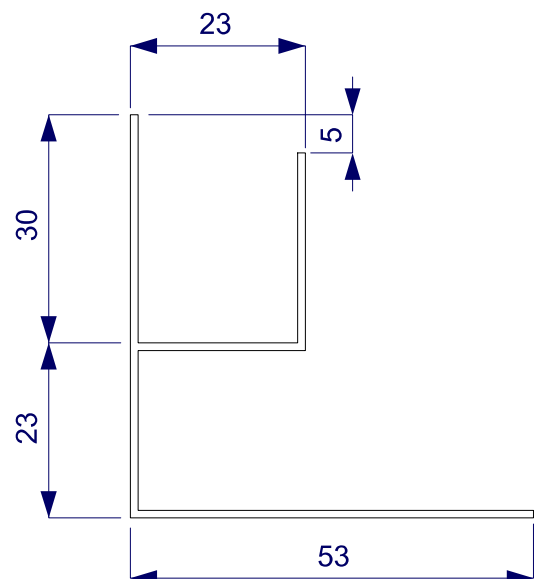
P 154
 Weight kg/m 0,394
 (lb/ft 0,265)
 Bundle of 10 bars



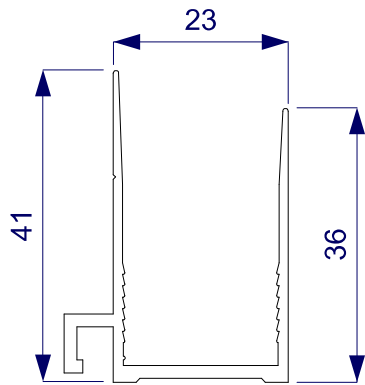
P 158
 Weight kg/m 0,335
 (lb/ft 0,225)
 Bundle of 10 bars



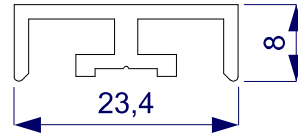
P 161
 Weight kg/m 0,381
 (lb/ft 0,256)
 Bundle of 10 bars



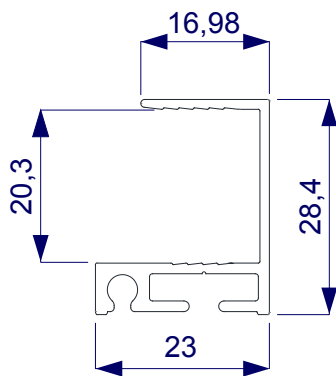
P 160
 Weight kg/m 0,484
 (lb/ft 0,325)
 Bundle of 4 bars



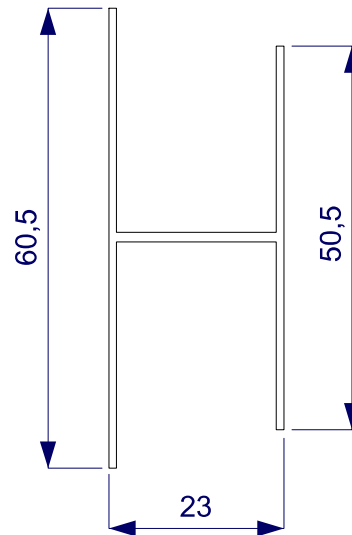
P 155
Weight kg/m 0,409
(lb/ft 0,275)
Bundle of 10 bars



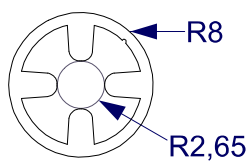
P 156
Weight kg/m 0,231
(lb/ft 0,155)
Bundle of 10 bars



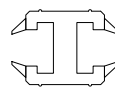
P 157
Weight kg/m 0,330
(lb/ft 0,222)
Bundle of 10 bars



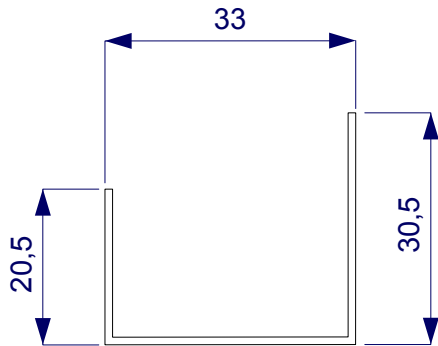
P 159
Weight kg/m 0,420
(lb/ft 0,282)
Bundle of 4 bars



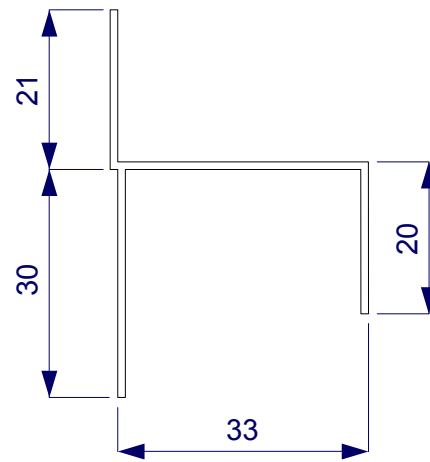
P 162
Weight kg/m 0,278
(lb/ft 0,187)
Bundle of 10 bars



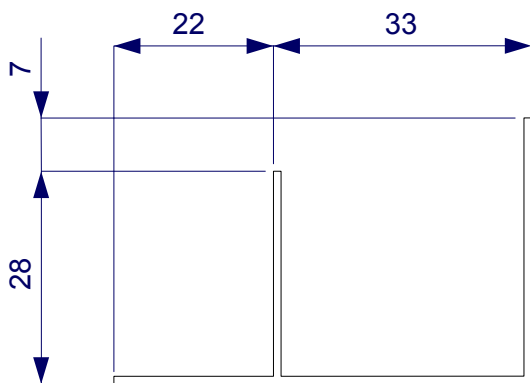
PVC 161-G
Bundle of 10 b.



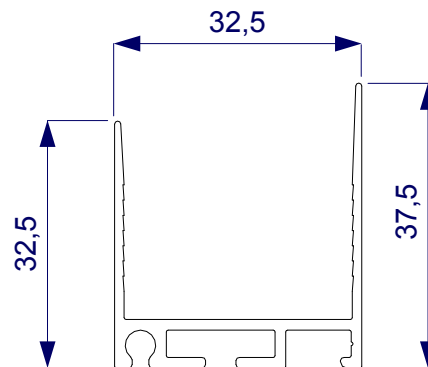
P 152-30
 Weight kg/m 0,275
 (lb/ft 0,185)
 Bundle of 10 bars



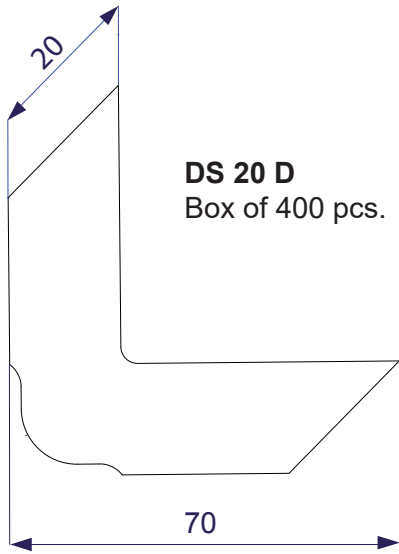
P 153-30
 Weight kg/m 0,342
 (lb/ft 0,330)
 Bundle of 10 bars



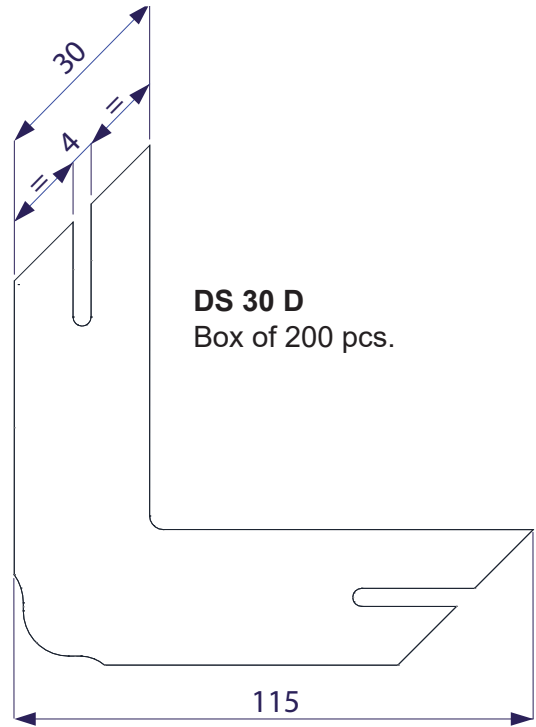
P 154-30
 Weight kg/m 0,387
 (lb/ft 0,260)
 Bundle of 10 bars



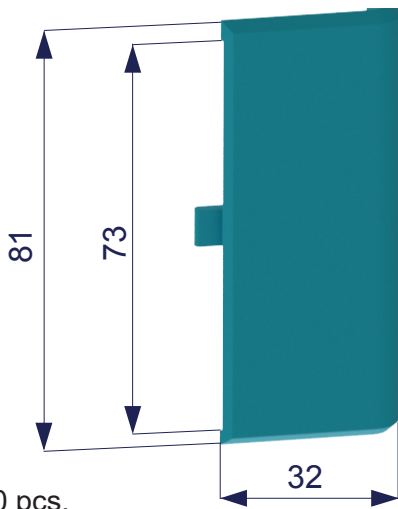
P 161-30
 Weight kg/m 0,433
 (lb/ft 0,291)
 Bundle of 10 bars



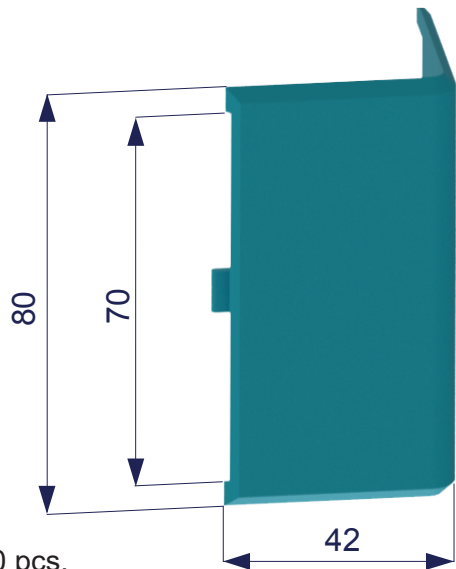
DS 20 D
Box of 400 pcs.



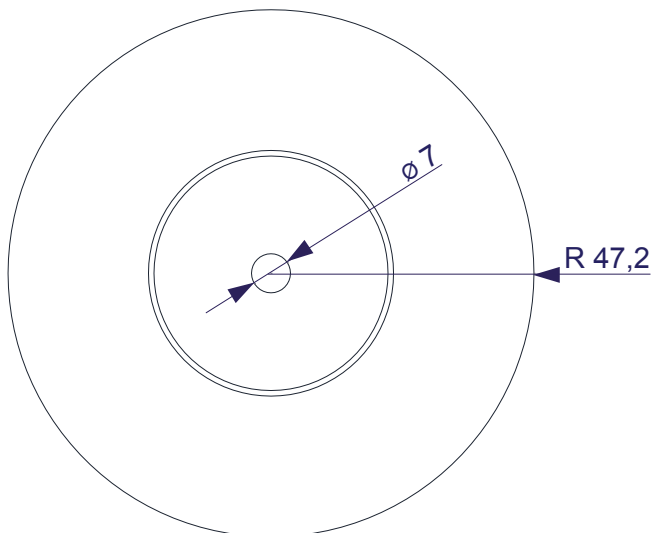
DS 30 D
Box of 200 pcs.



N 161
Box of 250 pcs.



N 161-30
Box of 500 pcs.



A 162
Box of 500 pcs.

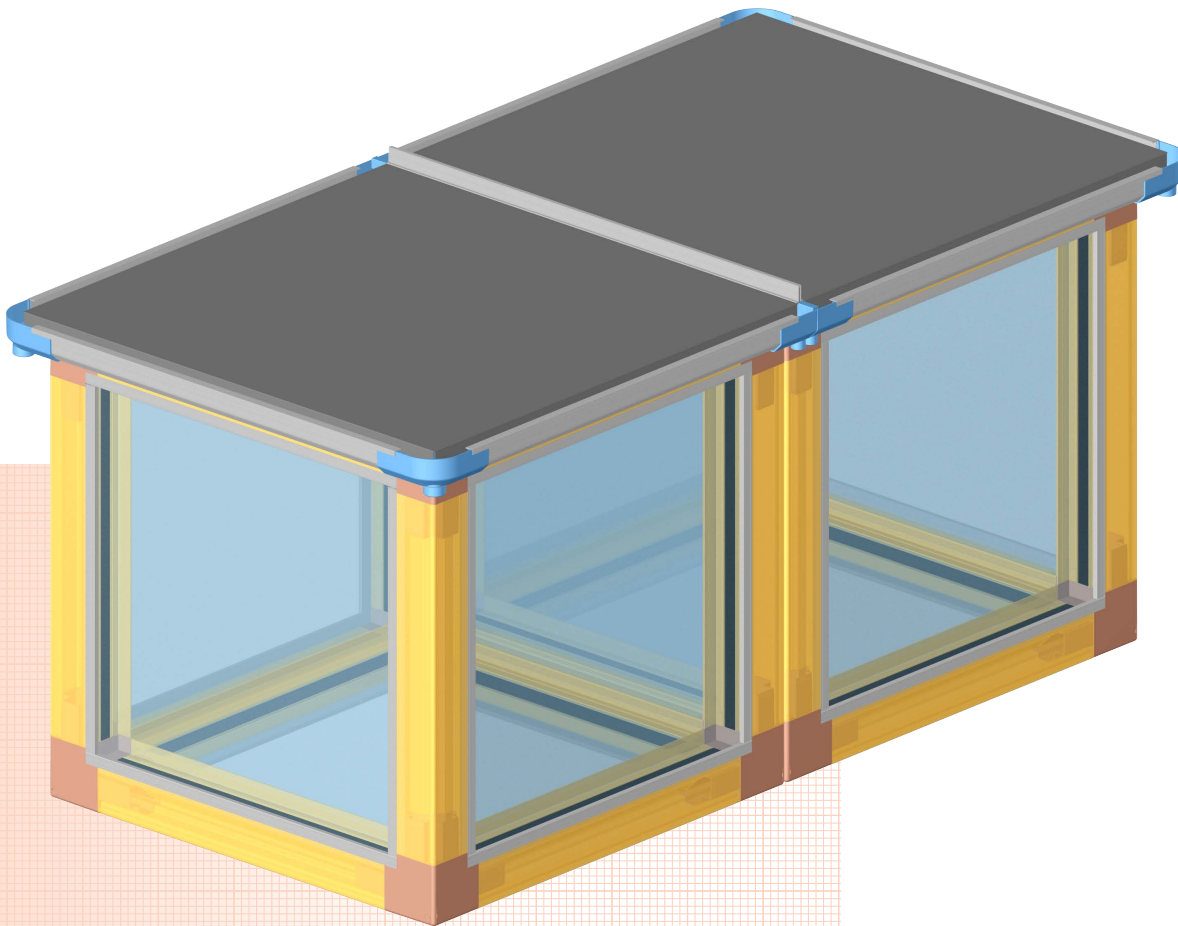
Length of the profile P 162 with the application of two aluminum discs:
- 9 mm than the inner section.

Sistema tetto.

Roof system.

Sistema para el techo de la unidad de tratamiento de aire.

Dachssystem.

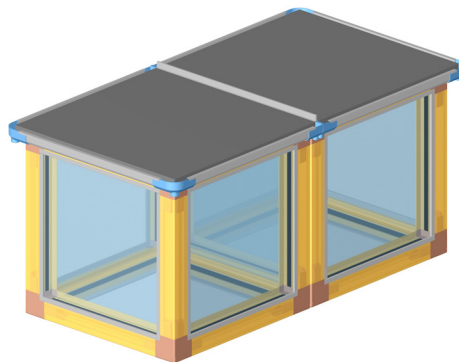


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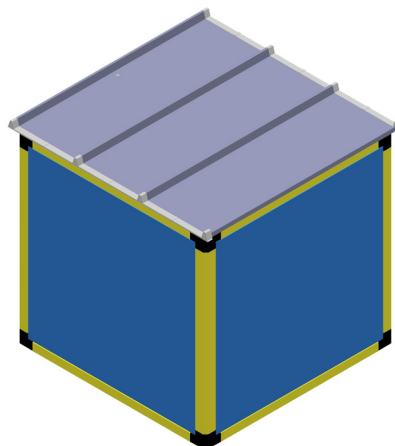
ROOF SYSTEM 1 - TOP OF THE RANGE

The roof system is a fully modular system suitable for both single and multiple units, it is composed of nylon corners and joints hermetically connected to each other by means of special aluminum profiles, all surmounted by press-punched sheets with the task of covering the machine and channeling the water in the profiles and let it flow from the special drains located in the corners and in the joints themselves. The system is able to adapt to all systems from 40mm to the largest 70mm.

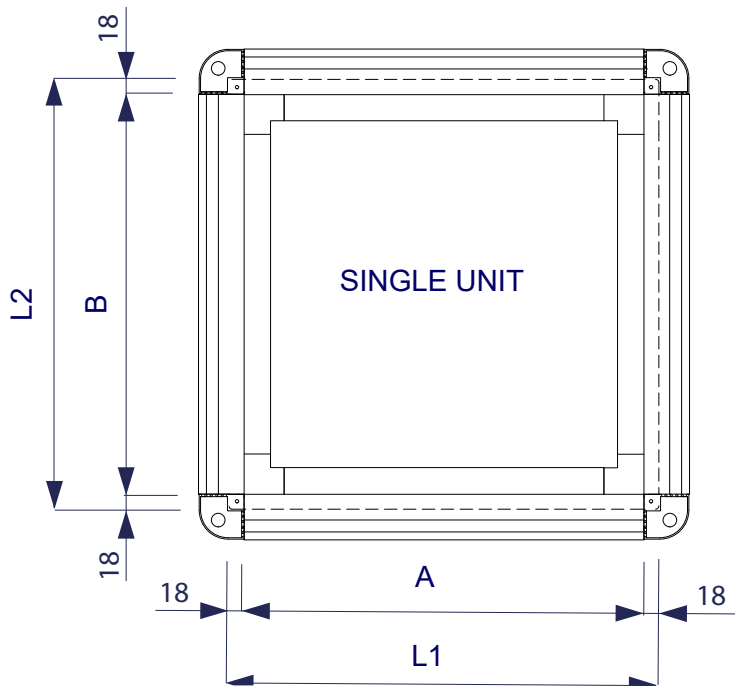


ROOF SYSTEM 2

This system is composed of several components, the common feature of these products is the practicality and speed of assembly. The roof system is made up of transparent polycarbonate sheets, which, thanks to a quick and easy interlocking system, allow for the construction of a light but at the same time resistant cover thanks to the special polycarbonate joint which ensures the mechanical seal between plates.



UNITA' SINGOLA

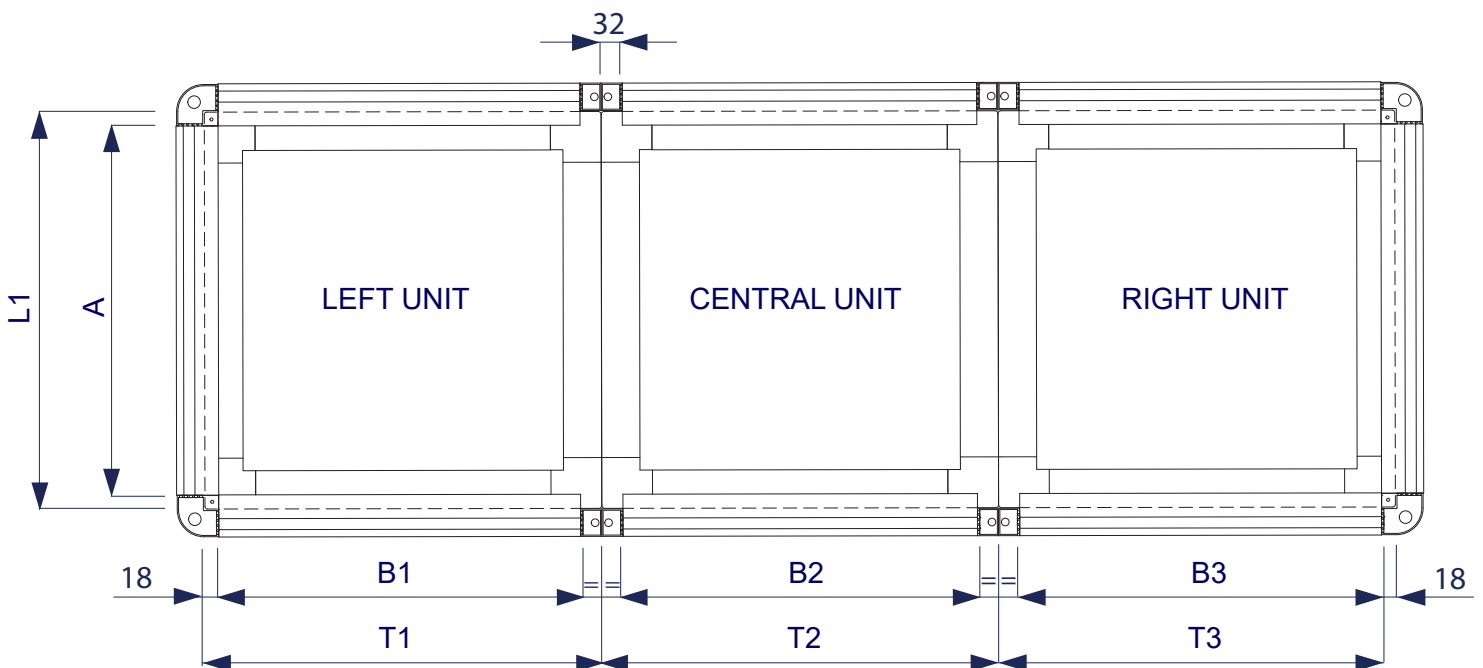


GENERAL RULES

$A = L1 - 36 \text{ mm}$
 $B = L2 - 36 \text{ mm}$

L1 = external dim. of unit
L2 = external dim. of unit

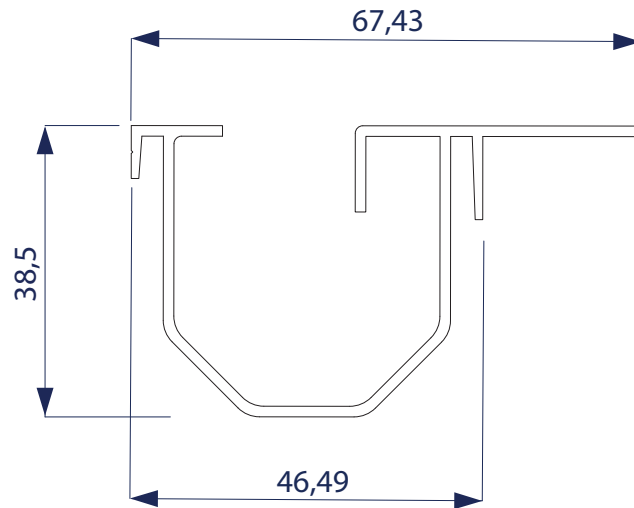
UNITA' MULTIPLA



GENERAL RULES

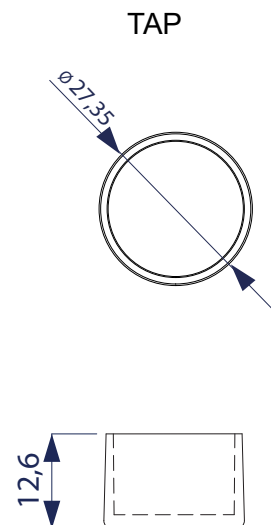
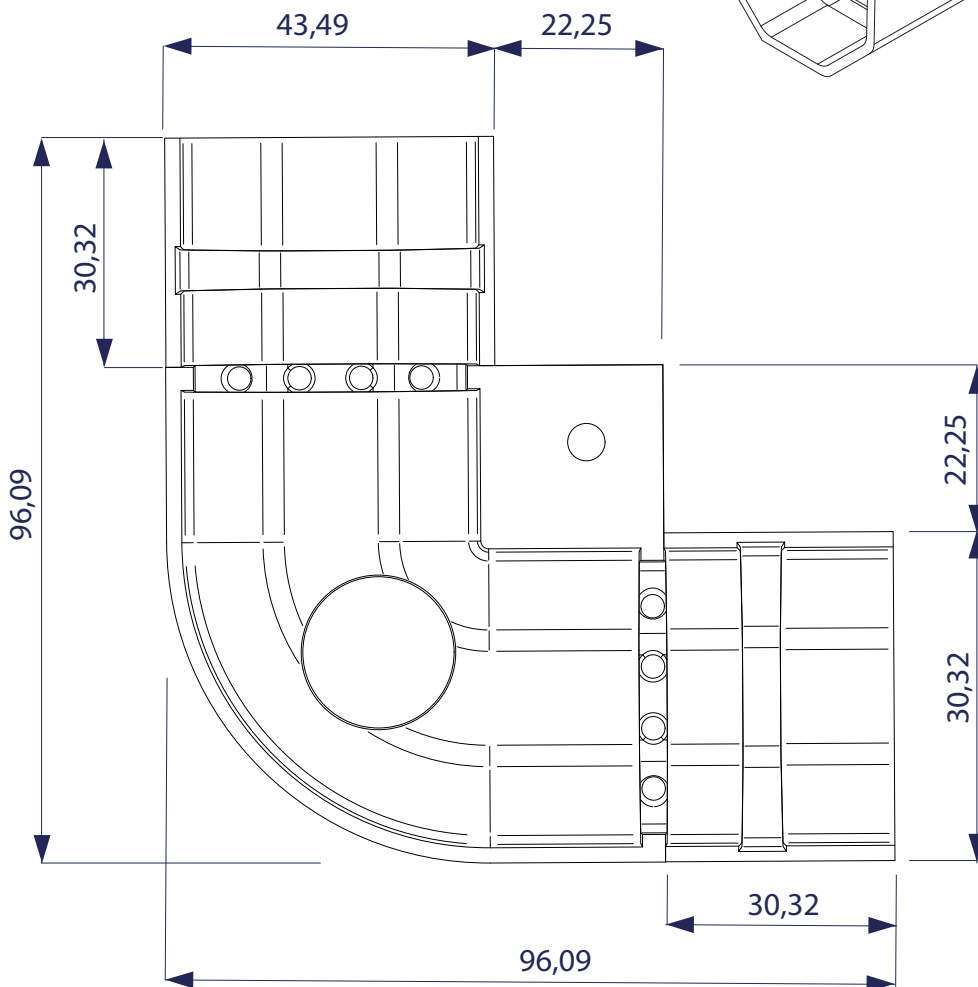
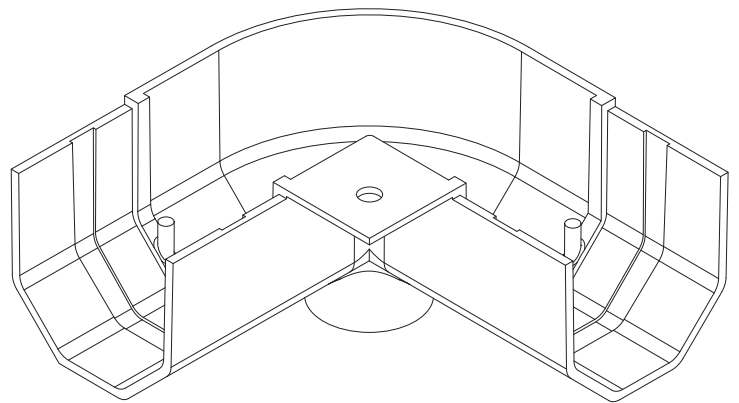
$A = L1 - 36 \text{ mm}$
 $B1 = T1 - (50 \text{ mm} - 3 \text{ mm})$
 $B2 = T2 - (64 \text{ mm} - 2,5 \text{ mm})$
 $B3 = T3 - (50 \text{ mm} - 3 \text{ mm})$

T1, T2, T3 = external dim. of unit
L1 = external dim. of unit

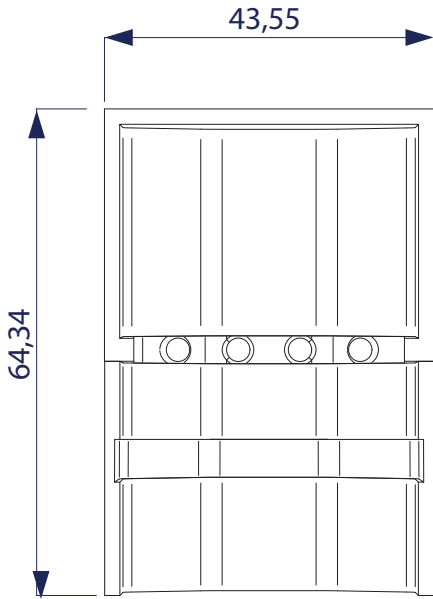


PR001
Weight kg/m 0,646

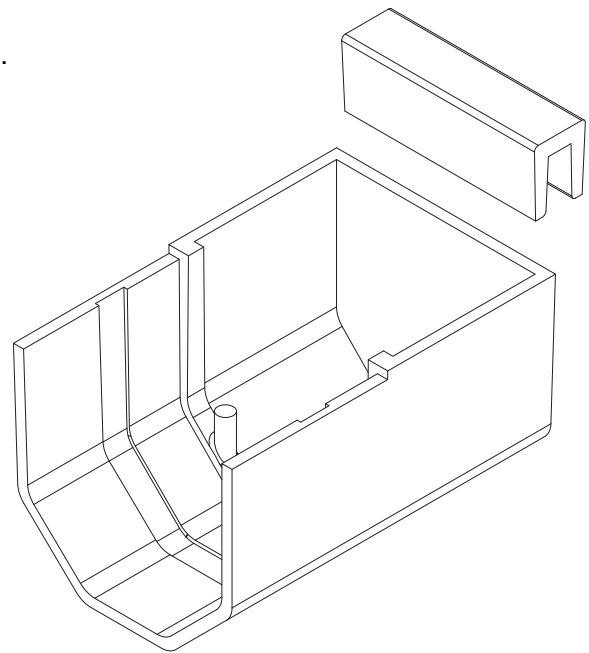
NR001
Box of 48 pcs.



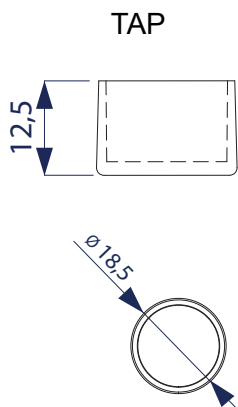
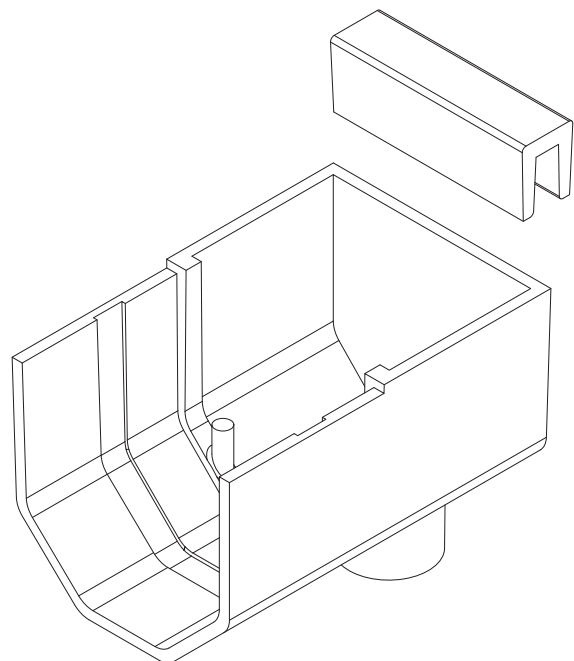
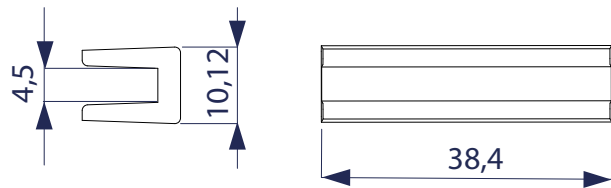
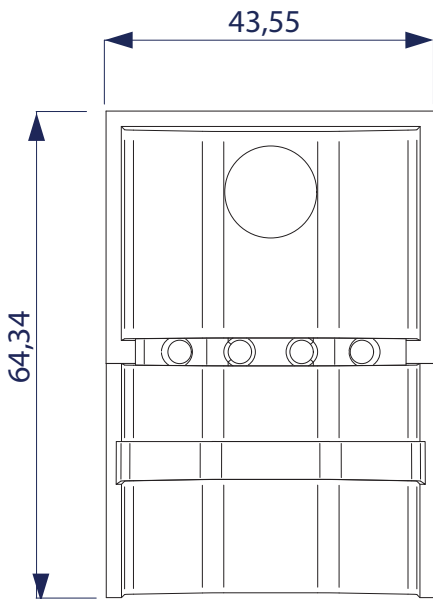
DRAWINGS NOT TO SCALE



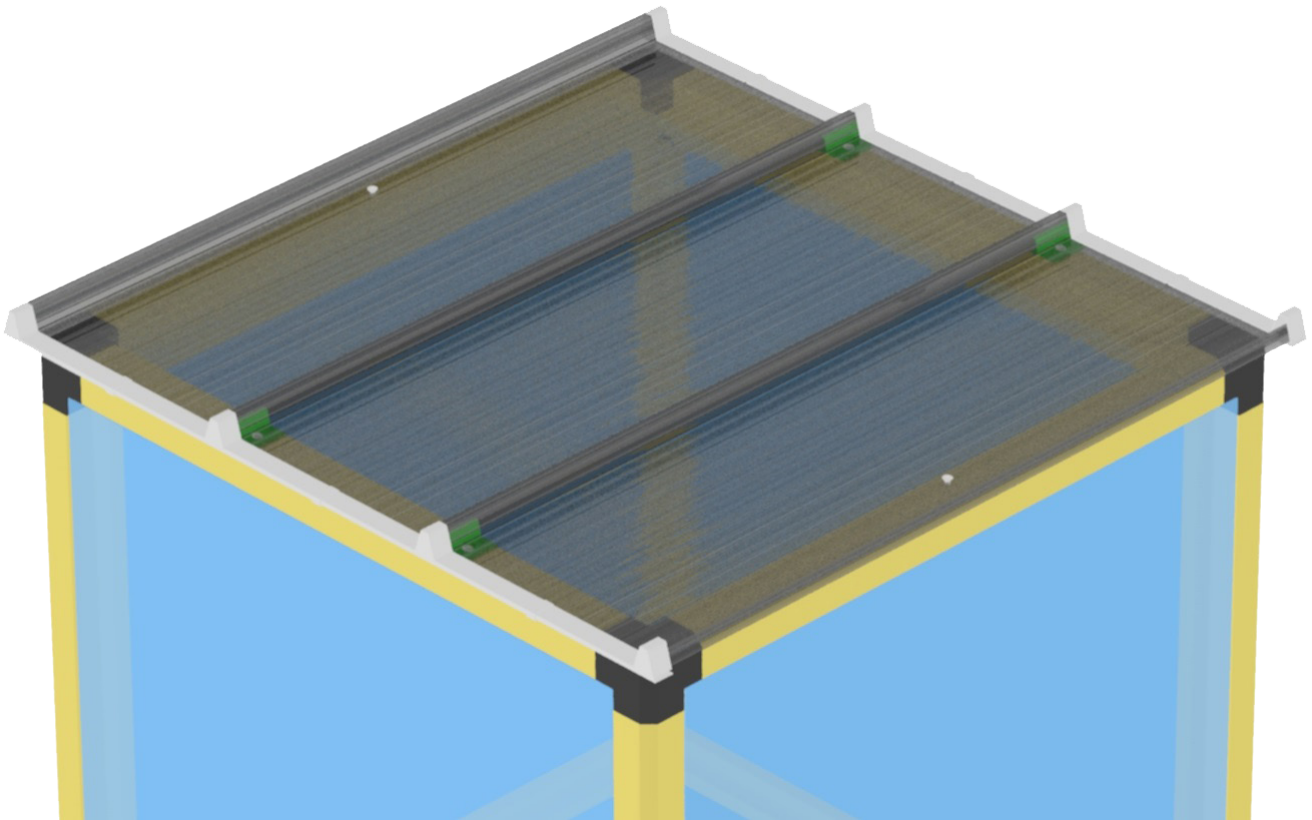
NR 001 JP-B
Box of 150 pcs.



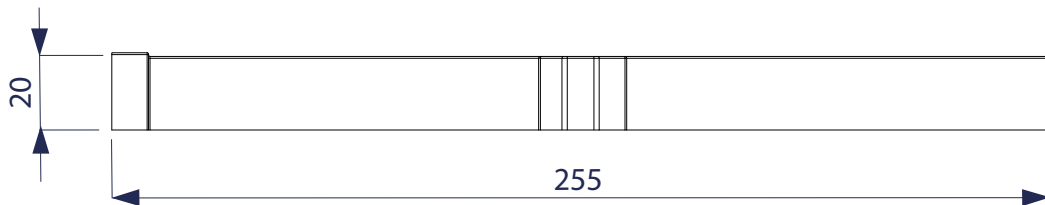
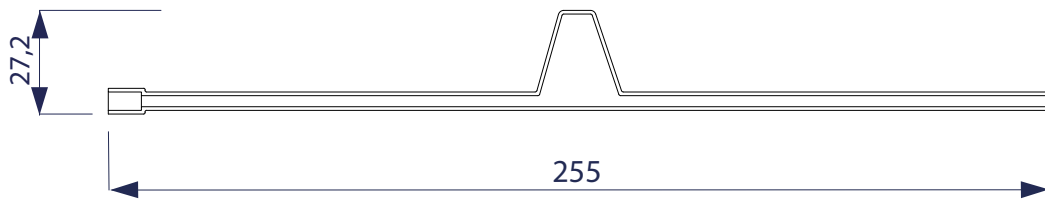
NR 001 JP-D
Box of 150 pcs.



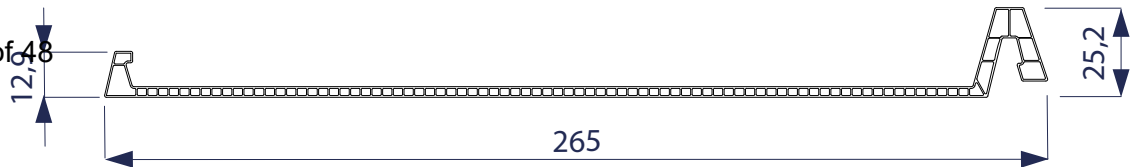
DRAWINGS NOT TO SCALE



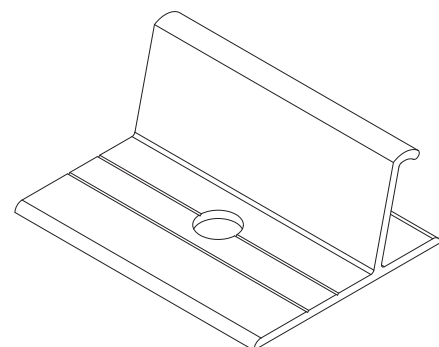
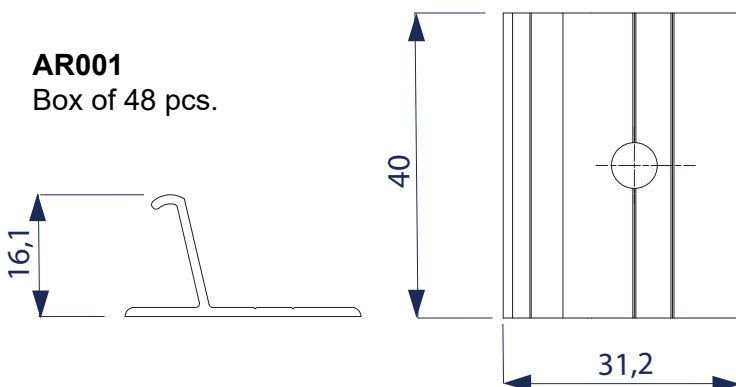
NCR1
Box of 48 pcs.



PCR 2553-2 Box of 48 pcs.
Lastre l= 4 mt



AR001
Box of 48 pcs.



Profili di alluminio commerciali. Lamiere di alluminio frezze e preverniciate

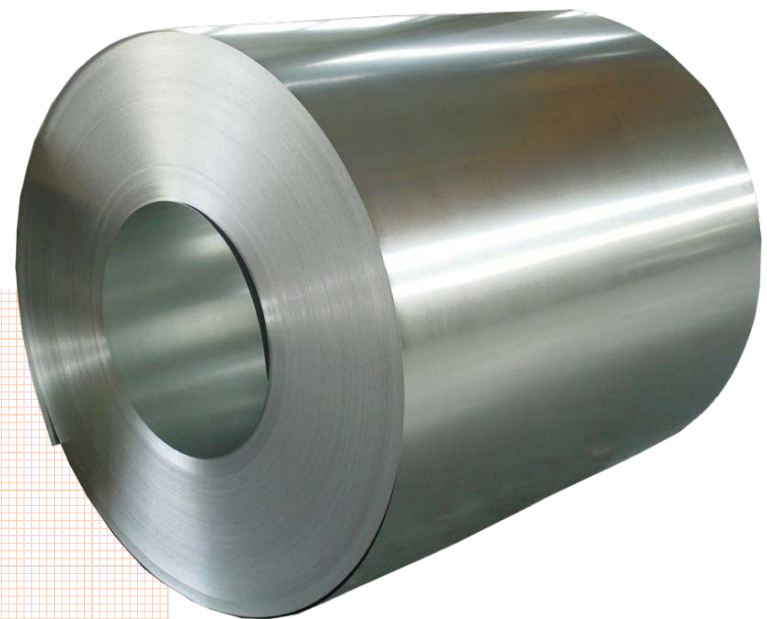
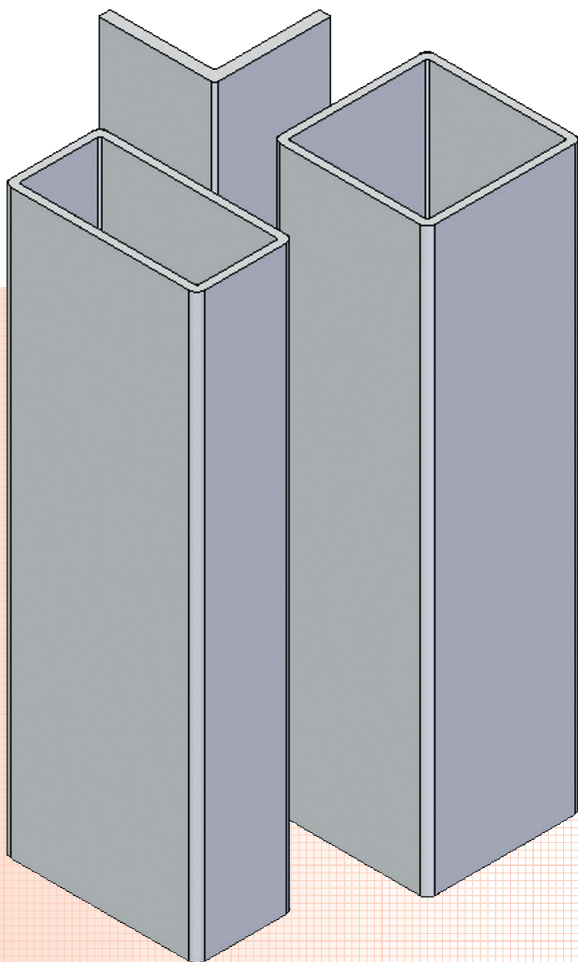
Commercial aluminium profiles. Commercial aluminium sheets in natural and pre-painted finishes.

Profils commerciaux en aluminium. Toles aluminium brutes et vernies.

Perfiles comerciales en aluminio. Chapas de aluminio brutas y prebarnizada.

Handelsübliche Aluminiumprofile. Handelsübliche Aluminiumblech in unbehandelte oder lackierte Ausführung.

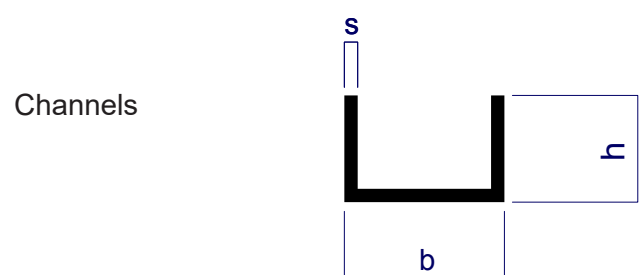
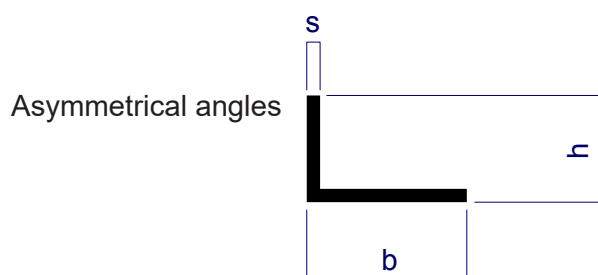
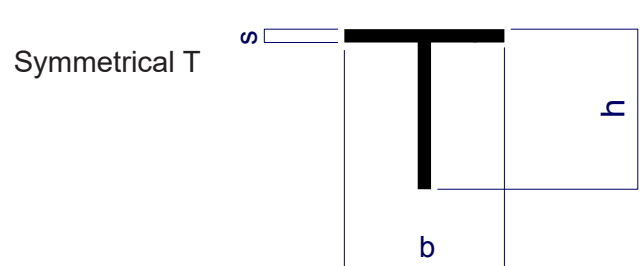
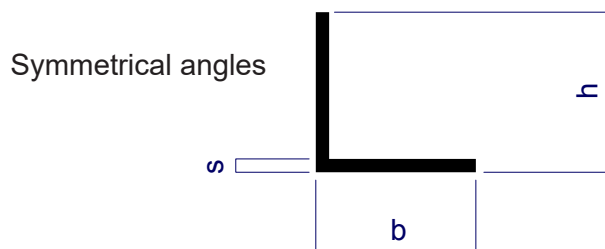
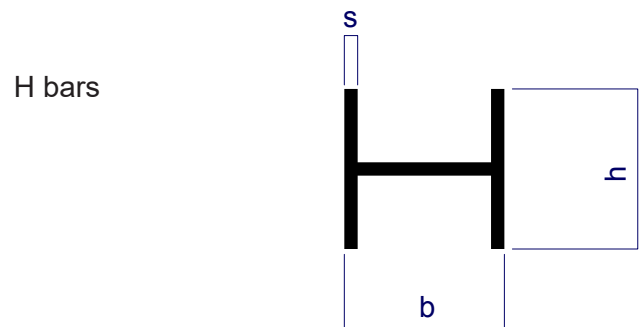
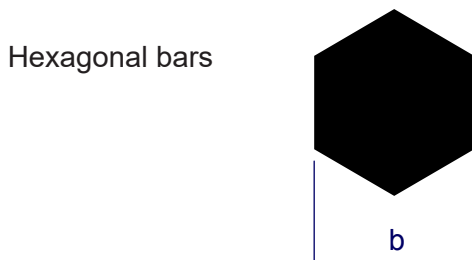
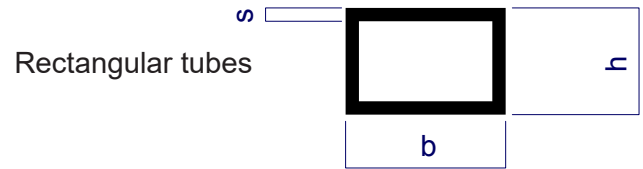
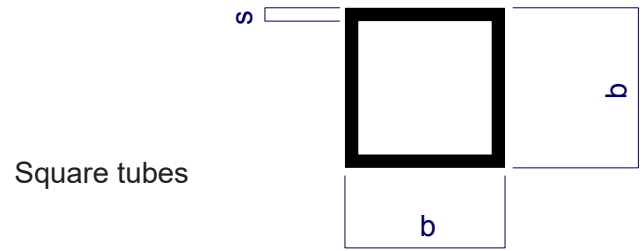
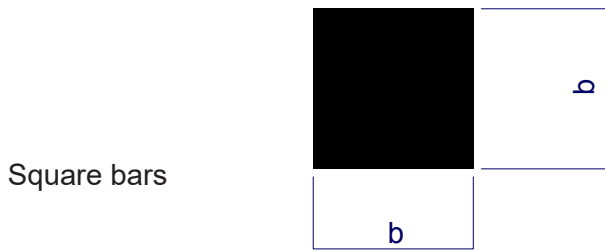
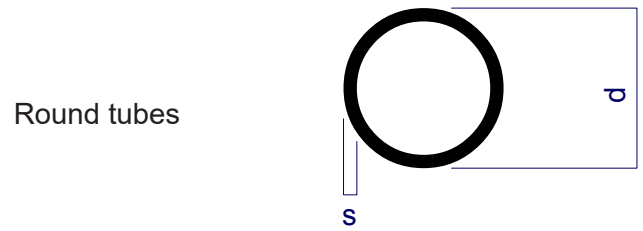
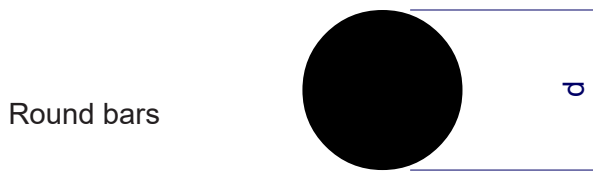
商业铝型材



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PRO-LAM produces profiles according to your drawing specifications.
 (Available presses: 1600/3200 TON)



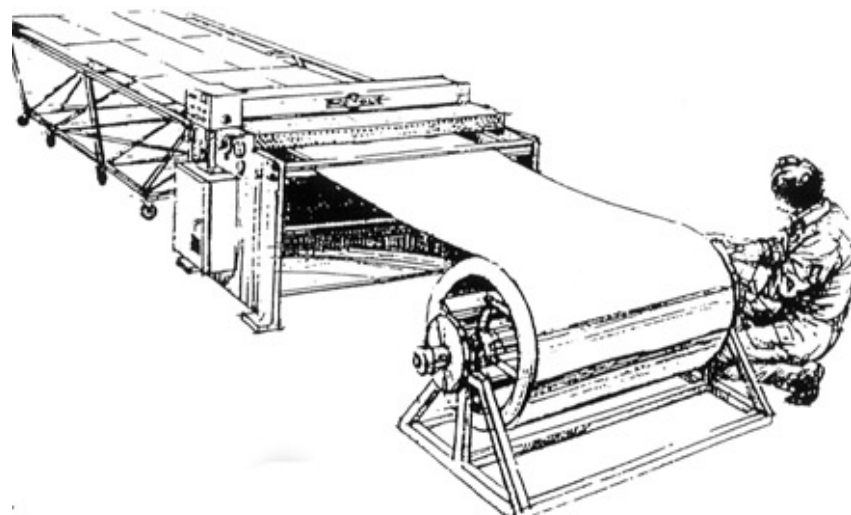
Peralluman (raw) aluminium sheet cut to length		
Thickness (mm)	Width (mm)	Cover
0.8	1000,1250,1500	PVC
1	1000,1250,1500	PVC
1.2	1000,1250,1500	PVC
1.5	1000,1250,1500	PVC
2	1000,1250,1500	PVC
3	1000 x 2000 (standard size)	PVC
4	1000 x 2000 (standard size)	PVC
5	1000 x 2000 (standard size)	PVC

Goffered aluminium sheet cut to length		
Thickness (mm)	Width (mm)	Cover
0.8	1250	-----

Aluminium sheet tread plate in standard dimension and thickness		
Thickness (mm)	Width (mm)	Cover
3 + 2	1000x2000, 1250x2500, 1500x3000	-----
5 + 2	1000x2000	-----

Pre-painted aluminium sheet cut to length			
Colour	Thickness (mm)	Width (mm)	Cover
White	1.2	1000, 1250, 1500	PVC
Silver	1.2, 1.4	1000, 1250, 1500	PVC
Black	1.2	1000, 1250, 1500	PVC
Brown	1.2	1000, 1250, 1500	PVC

Other RAL colours are also available in different sizes



Sistema modulare composto da profili ed angoli in acciaio inox per il montaggio delle strutture.

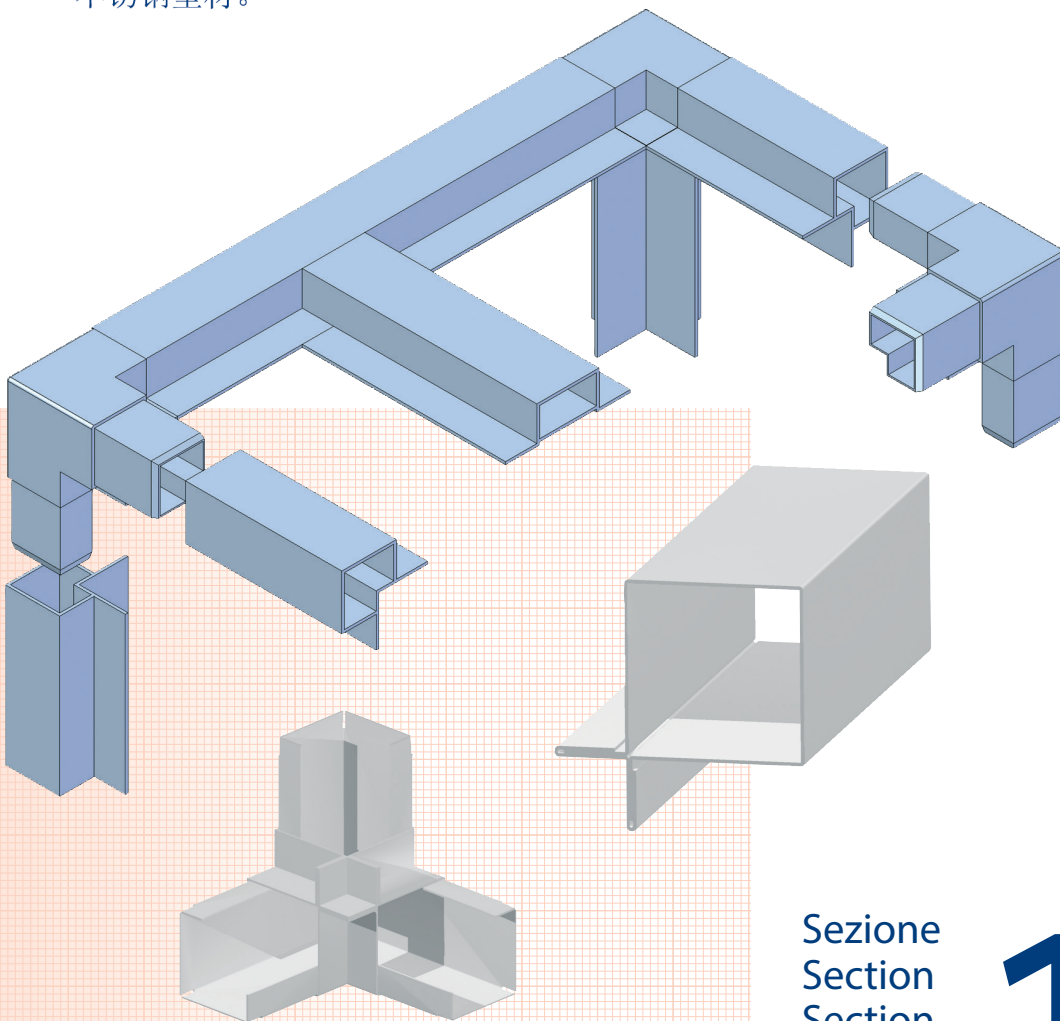
Modular frame system with stainless steel profiles and corners.

Système modulaire composé par profiles et angles en acier inoxydable pour le montage des structures.

Sistema modular compuesto por perfiles y esquinas en acero inoxidable para el montaje de las estructuras.

Modularer System bestehend aus Edelstahl-profile und Ecken für die Montage von Strukturen.

不锈钢型材。



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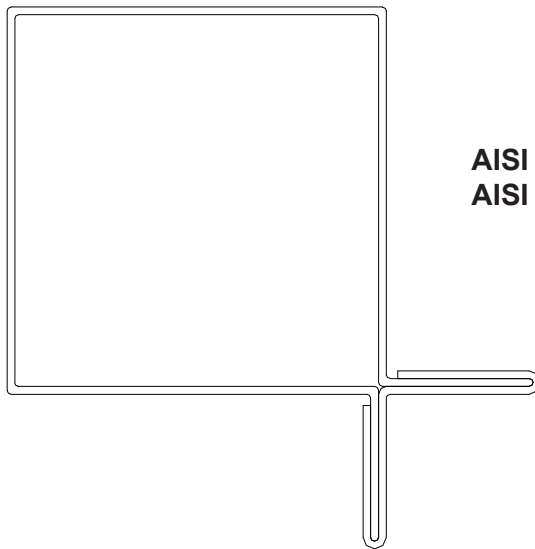
Stainless steel profiles

In this section you will find information about our stainless steel profiles **AISI 304/316**.

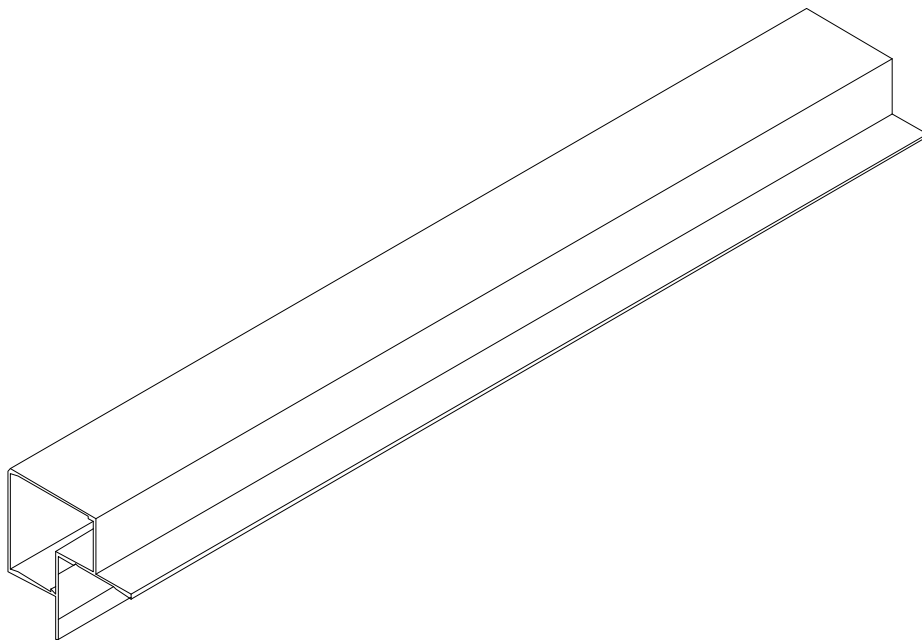
These profiles have been introduced to meet the needs of AHU builders who require a frame which is particularly corrosion resistant against atmospheric and chemical agents.

Our stainless steel profiles (**AISI 316**) are useful and appreciated for their performance in environments with high acid level and high saline concentration.

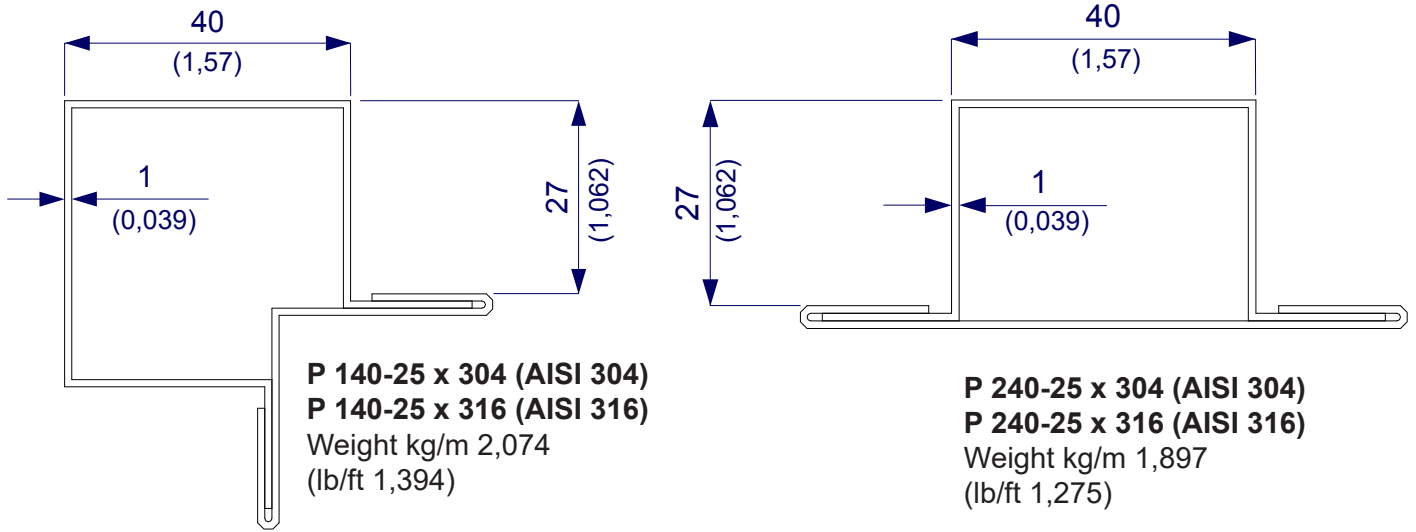
The major fields of demand of our stainless steel profiles are chemicals, oil-bearing, naval, industrial, food and other specific applications.



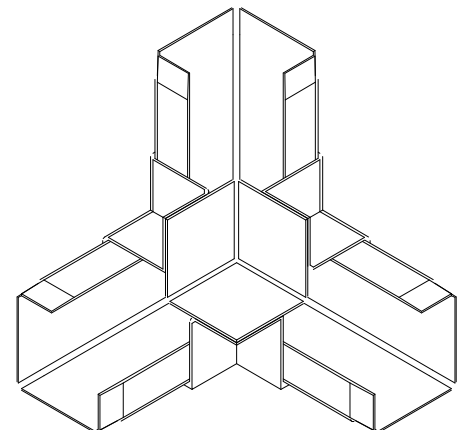
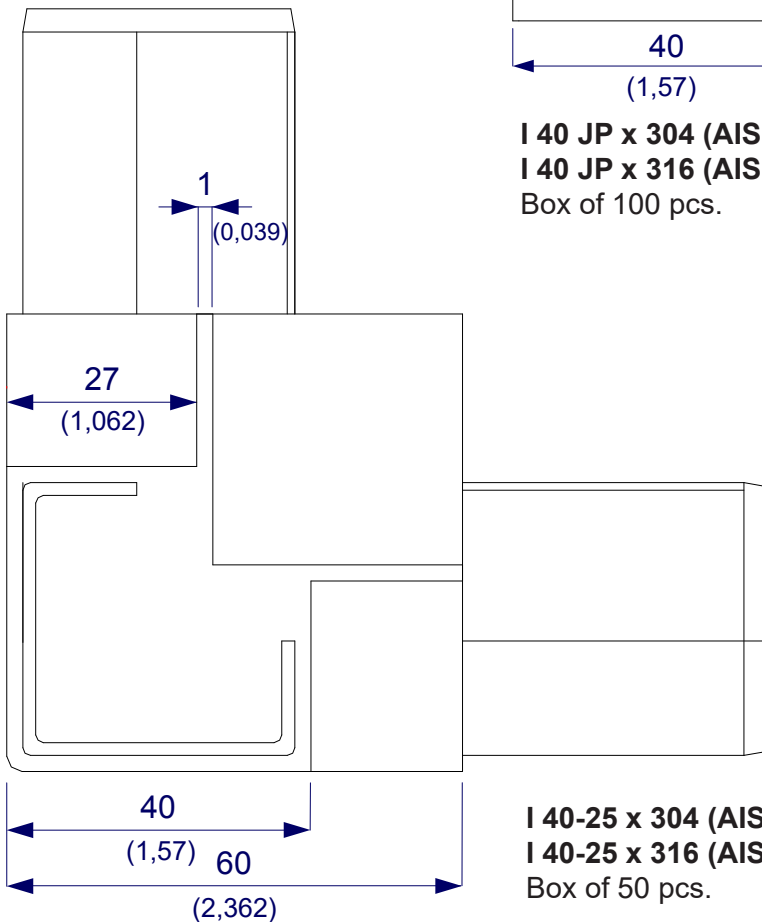
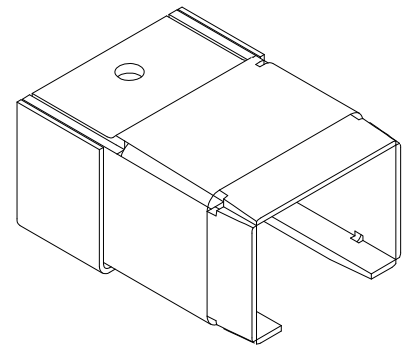
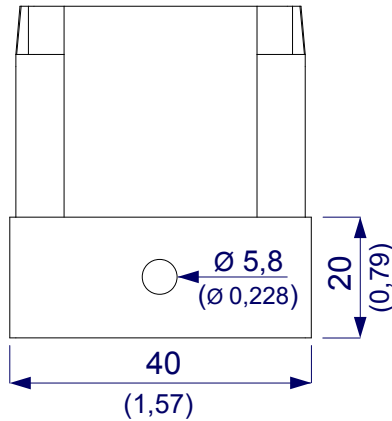
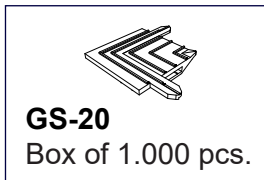
AISI 304
AISI 316



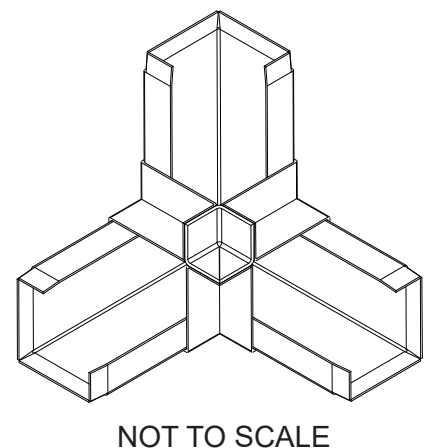
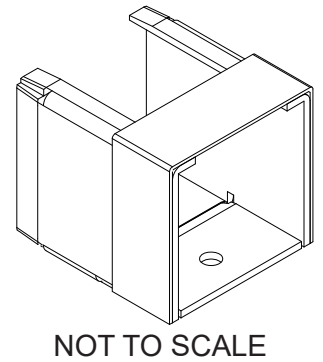
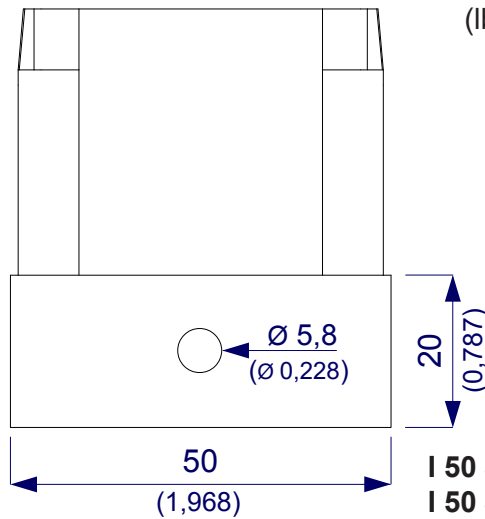
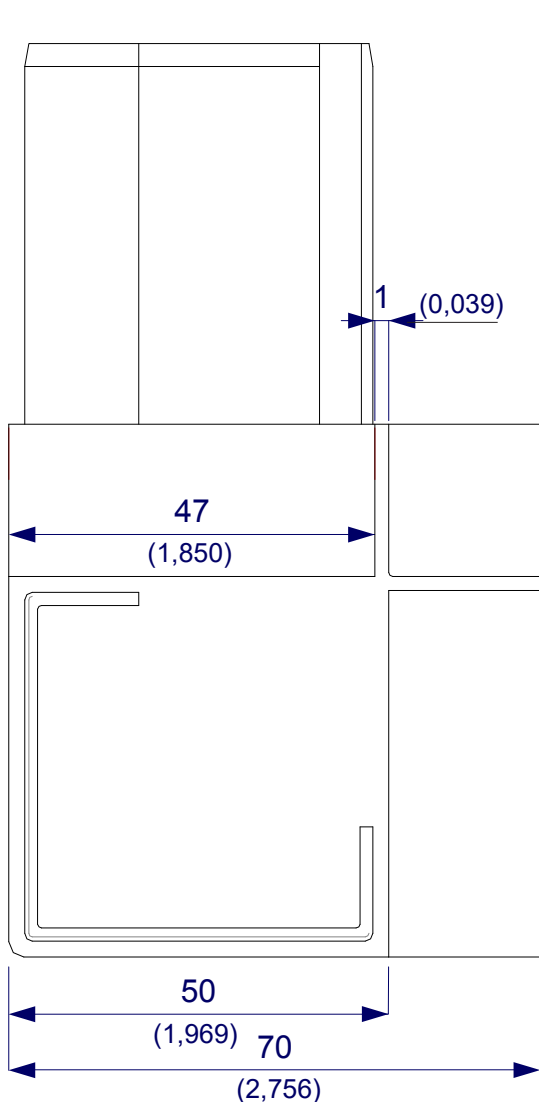
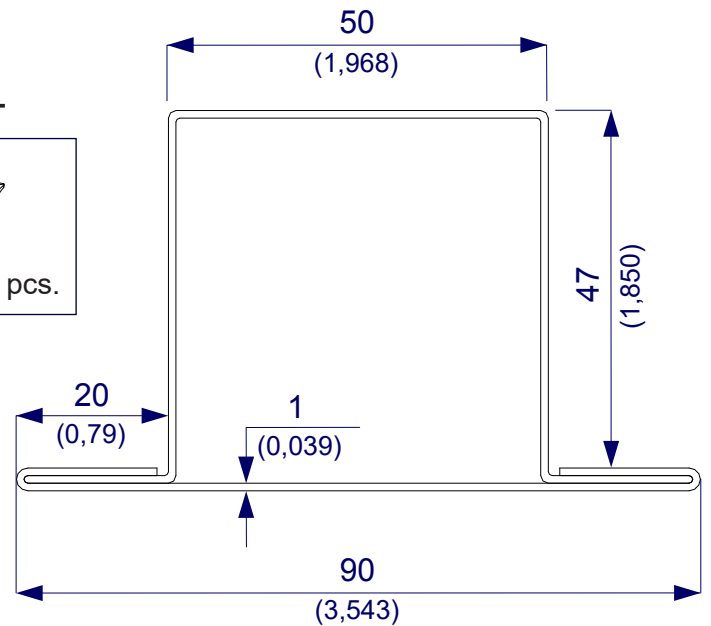
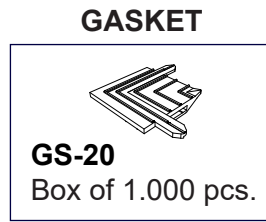
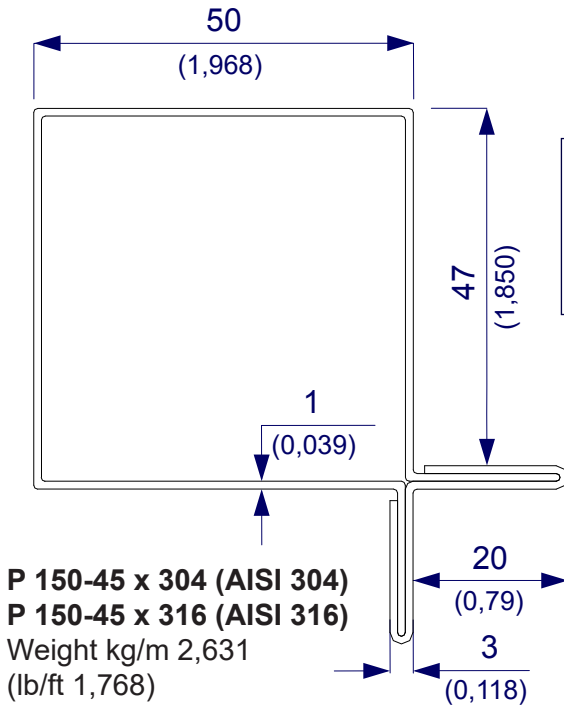
1°) Square profiles (section 40 panel 25 mm)



GASKET



2° Square profiles (section 50 panel 45 mm)



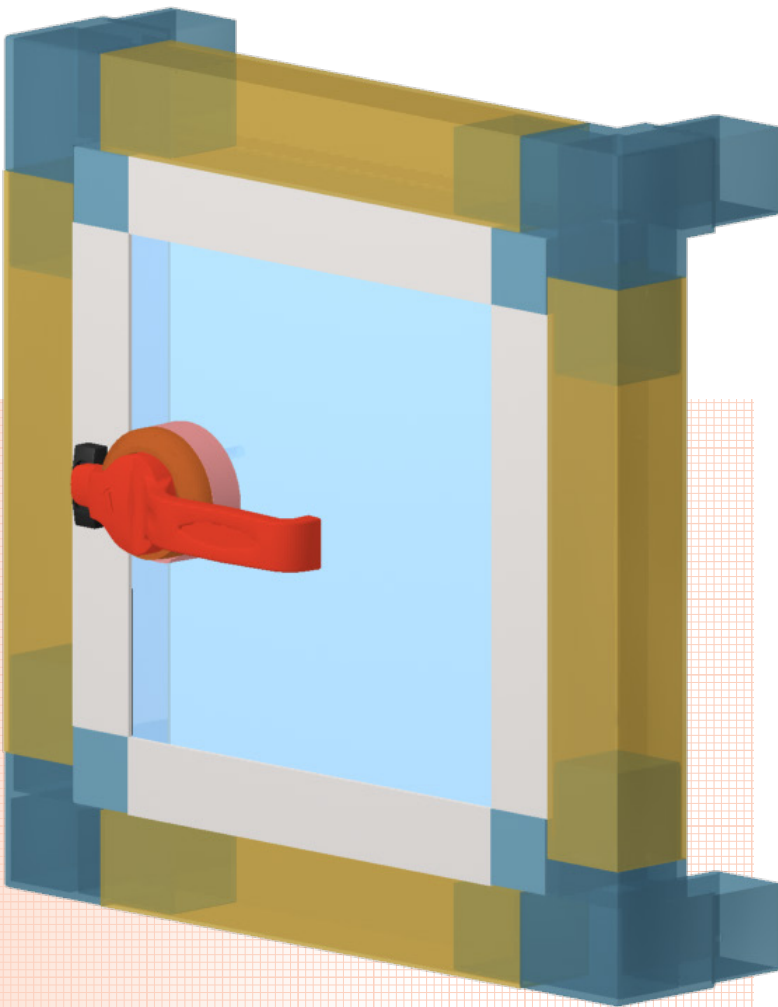
Sistema telaio per porte apribili all'interno (unità con pressione positiva).

PVC frame for inward opening doors under positive pressure (thermal break).

Cadre PVC pour portes à ouverture vers l'intérieur sous pression positive.

Sistema que utiliza un marco interior en PVC para puertas que se abren hacia el interior (unidades de presión positiva).

Rahmen für Türen, die von innen zu öffnen (Überdruckgerät).



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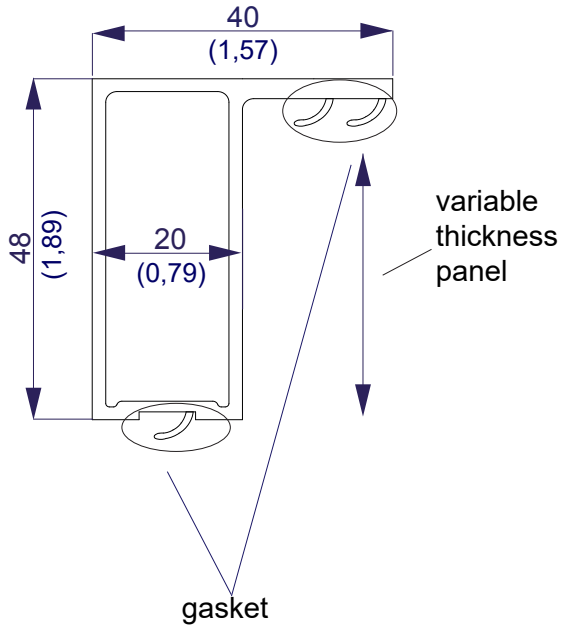
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PVC-P1-48

Weight kg/m 0,472

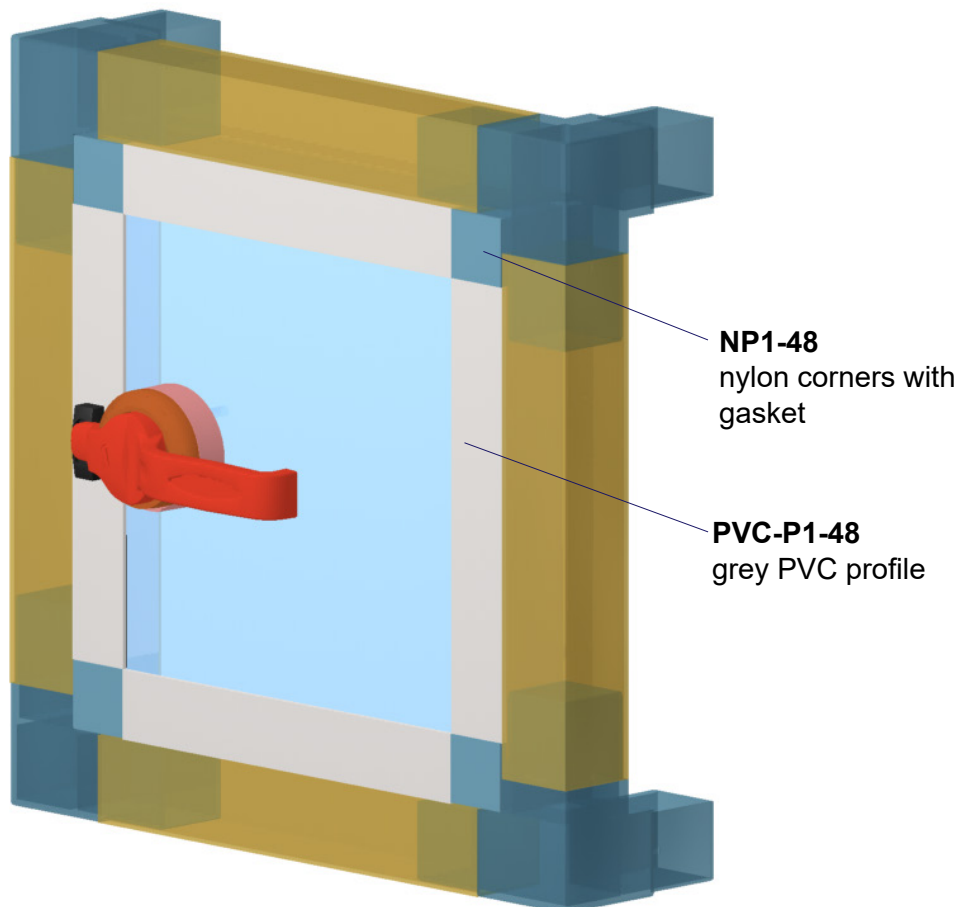
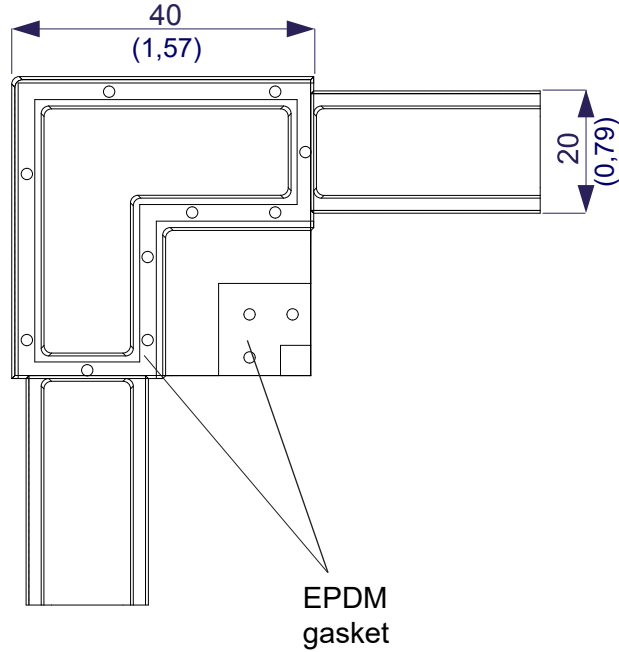
(lb/ft 0,317)

Bundle of 12 bars



NP1-48

Box of 65 pcs.



Available for 45, 50, 62 mm thickness panel system