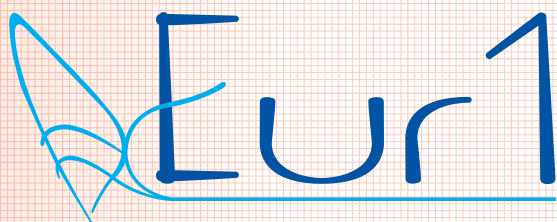




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THE SYSTEM: EUR-1 MODULAR FRAME SYSTEM

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.

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

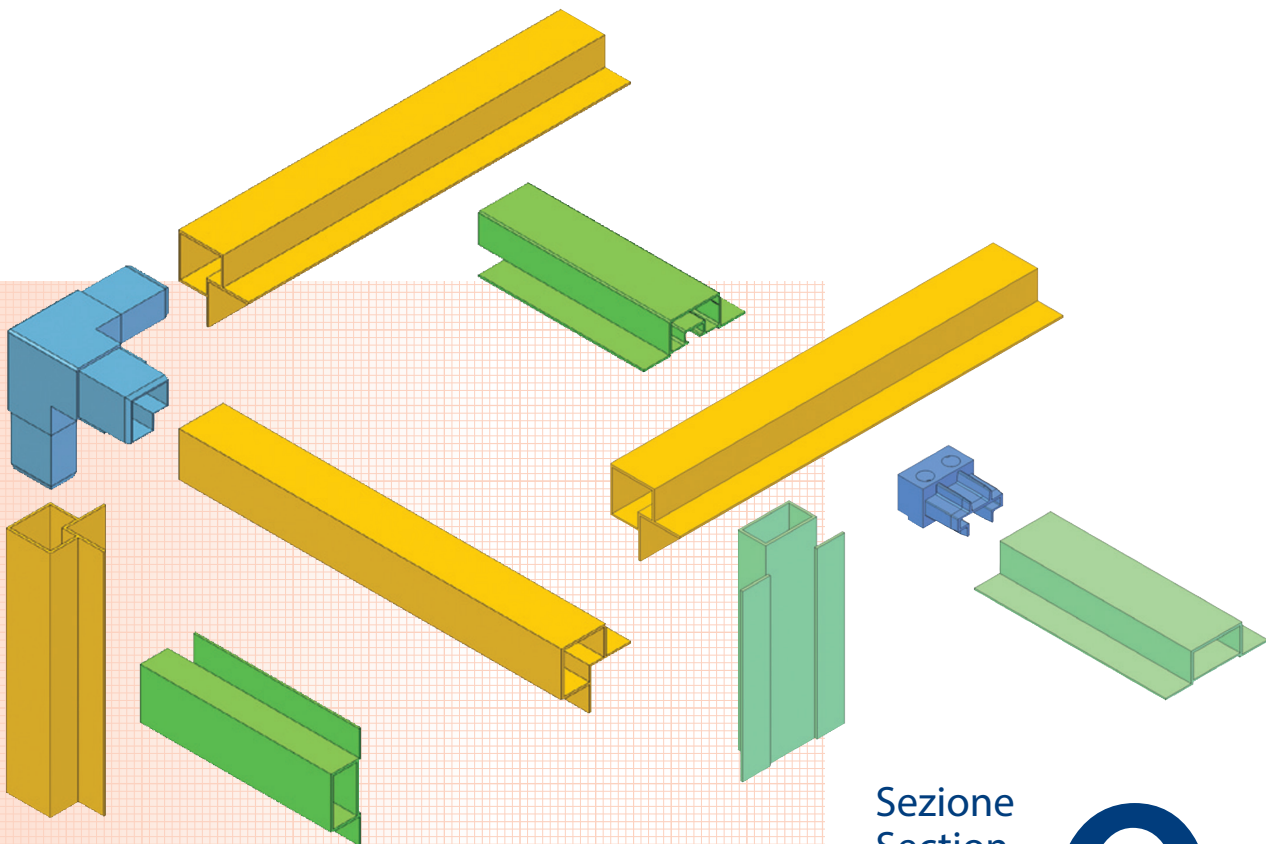
EUR-1 explanation and material characteristics with bending calculation of maximum stress and deflection, milling and cutting machine for profiles.

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。



Sezione
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01

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).

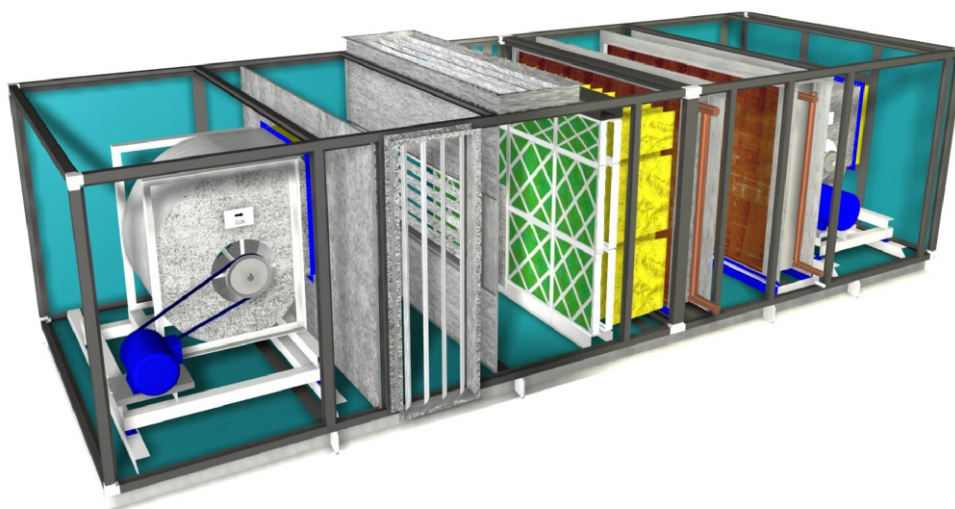
The main structure can be constructed with profiles of various dimensions and shapes; both square and blunted section profiles are available. The standard profiles are raw aluminium but also anodised and painted finishes are available.

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.

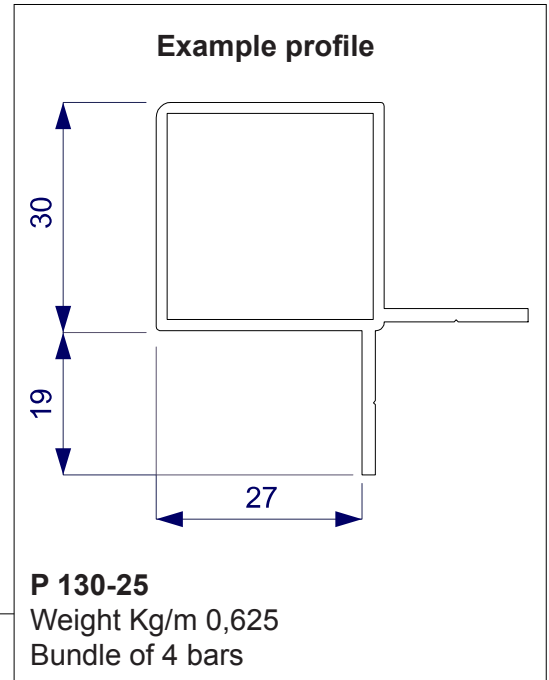


MEANING OF CODES IN THE CATALOGUE

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

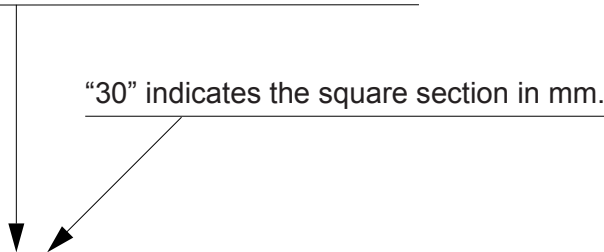
(NS) DRAWING NOT TO SCALE



IMPORTANT NOTE

Example 1: Profile code description

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



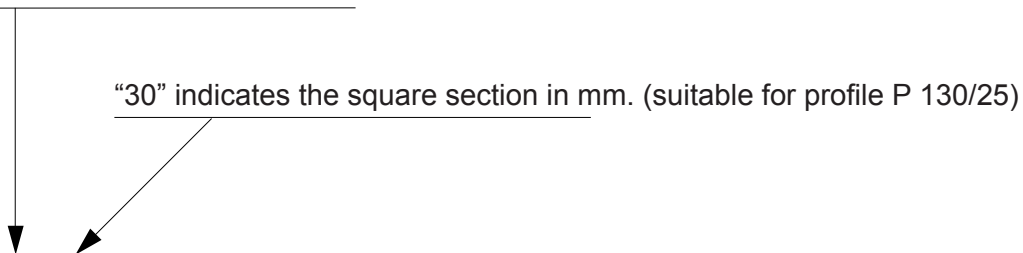
P 130/25 ← “25” indicates the thickness of the panel suitable for this profile.

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.

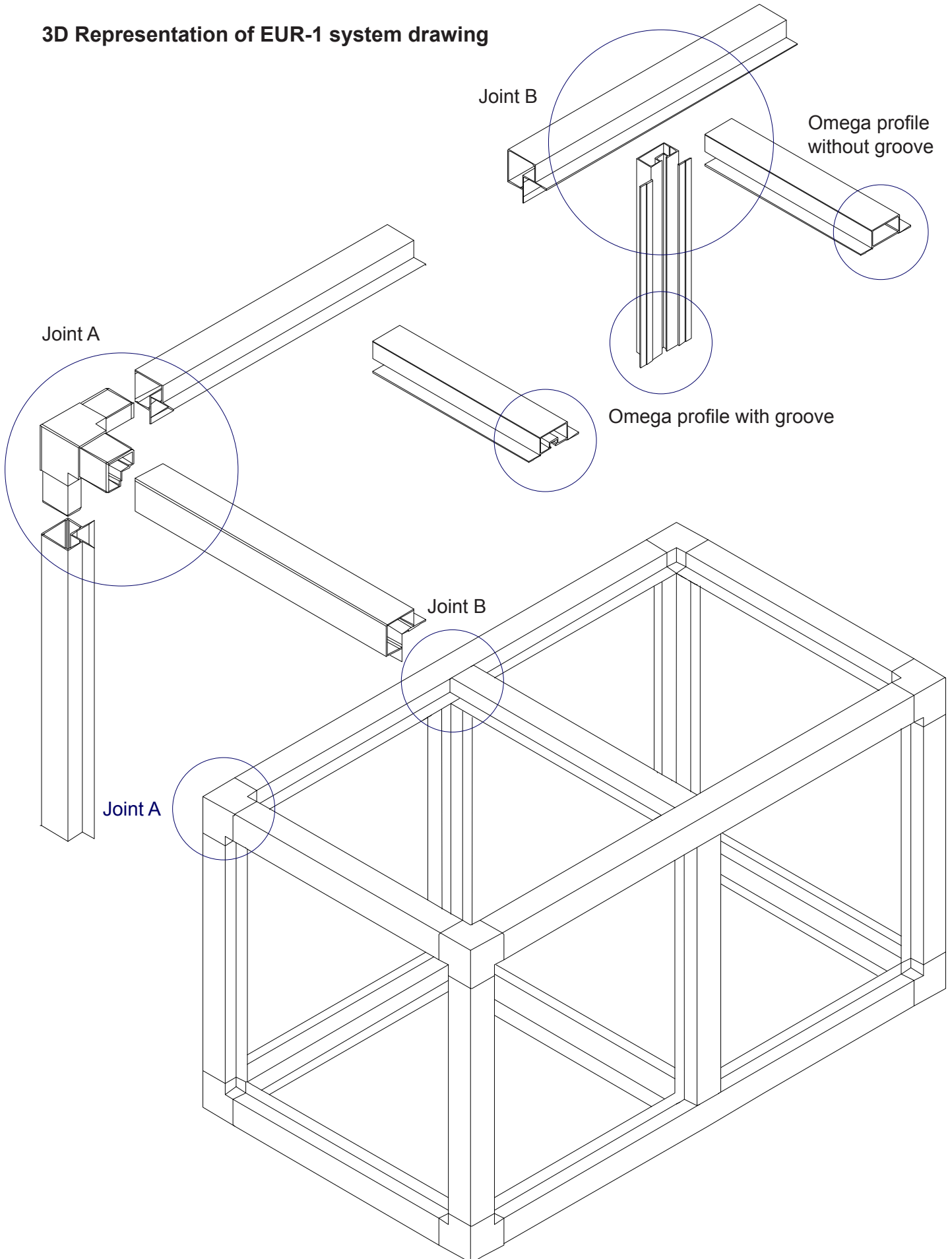
Example 2: Accessories code description

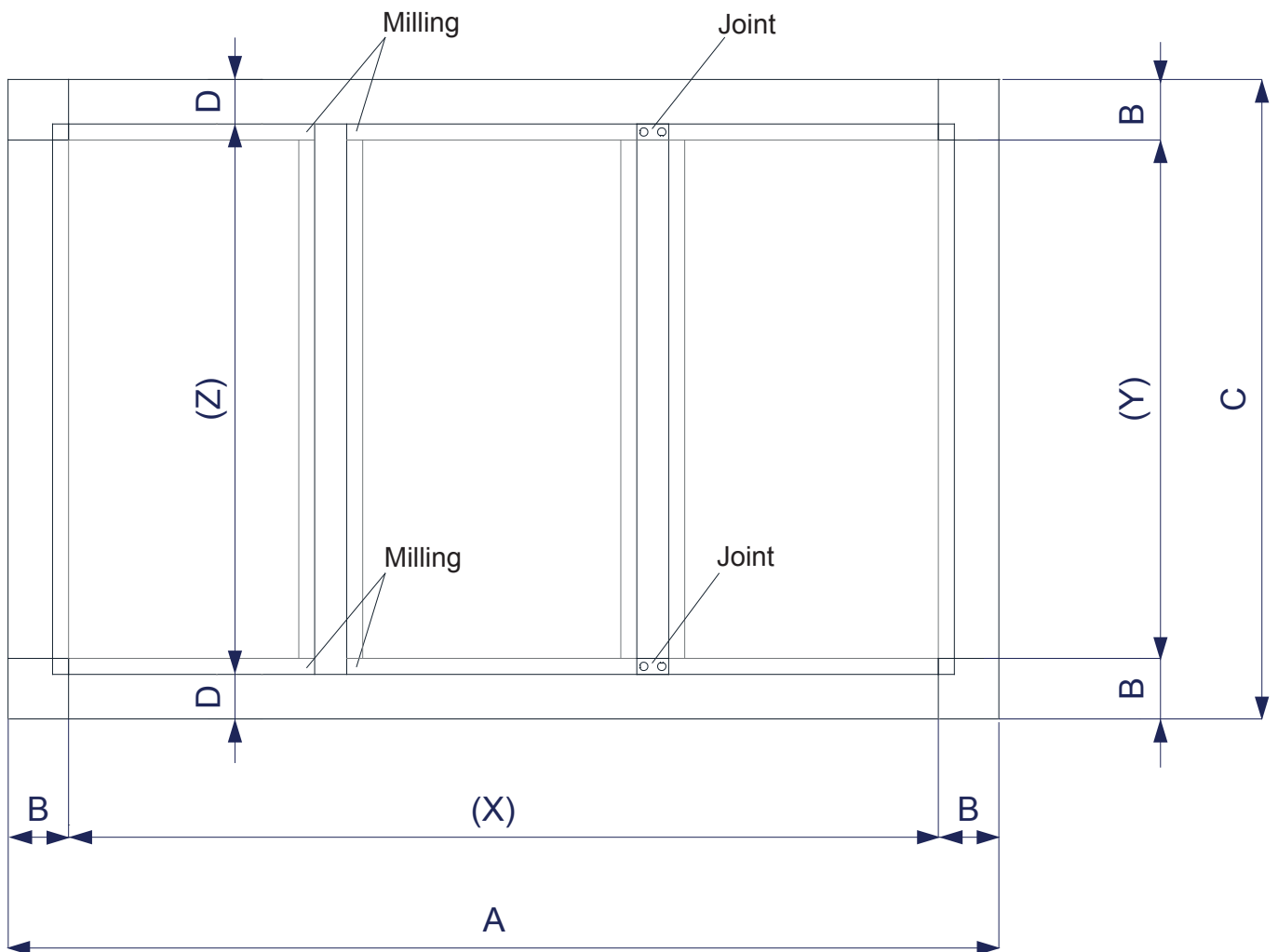
The first letter indicates the material.
(aluminium)



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:

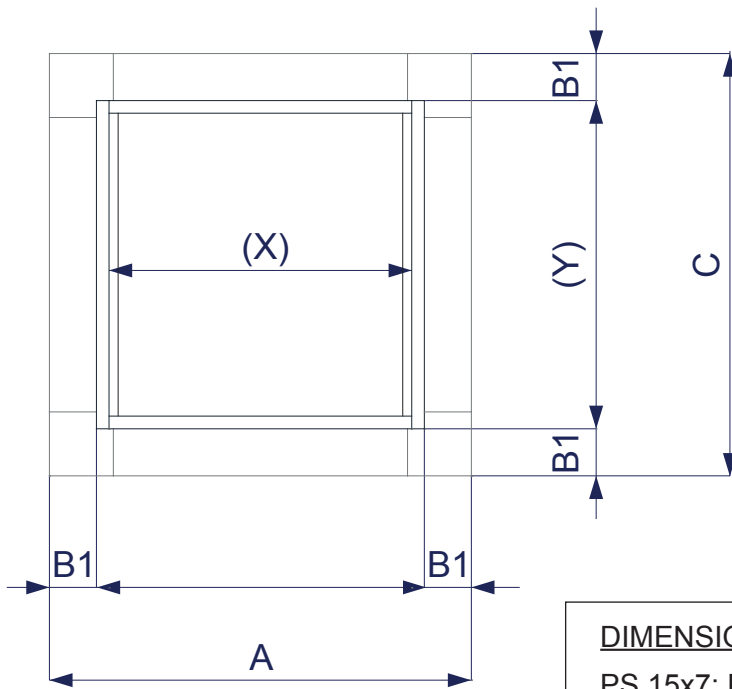
$$Y = C - (B \times 2)$$

(consider negative tolerance)

DIMENSIONING OF MILLED OMEGA PROFILES (NO JOINT):

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

(consider negative tolerance)

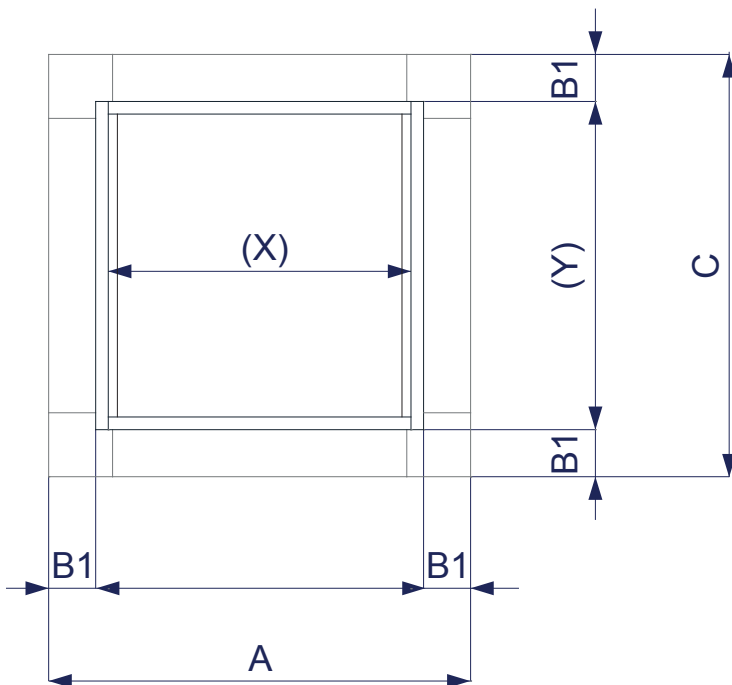


DIMENSIONING PANEL STOP PROFILES:

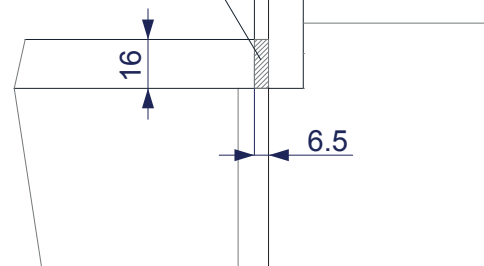
PS 15x7; PS 15x6; PS 15x6-1; PS-P 30-50

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

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



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



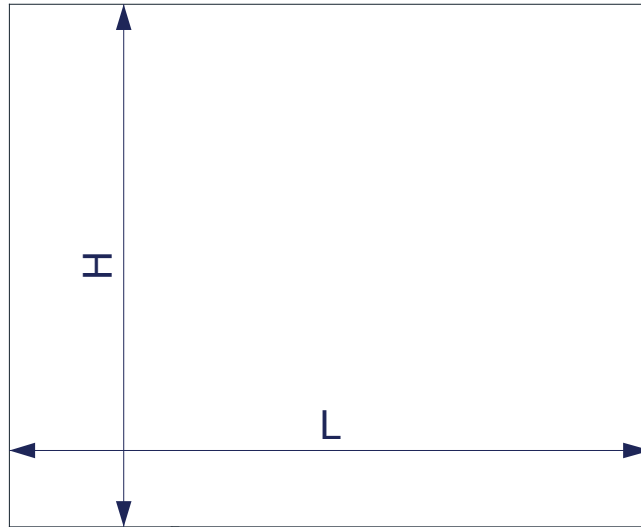
DIMENSIONING PANEL STOP PROFILES:

PVC-PS 15x6

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

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

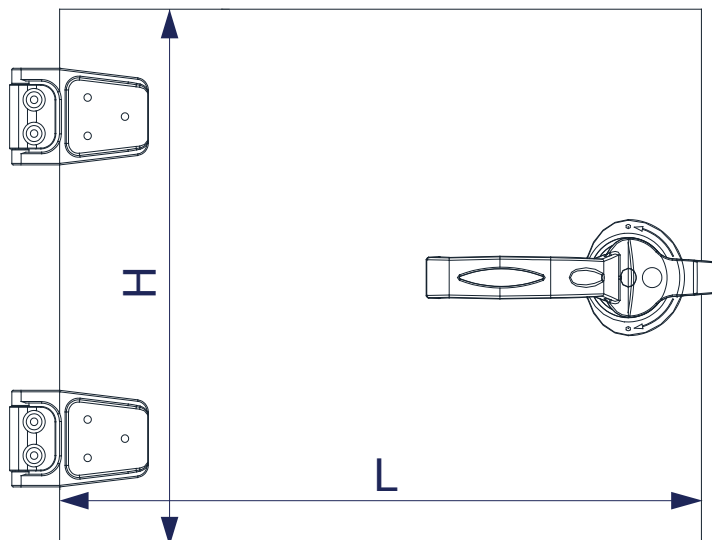
PANEL DIMENSIONING



L = INTERNAL PROFILE L - ≥ 3 mm

H = INTERNAL PROFILE H - ≥ 3 mm

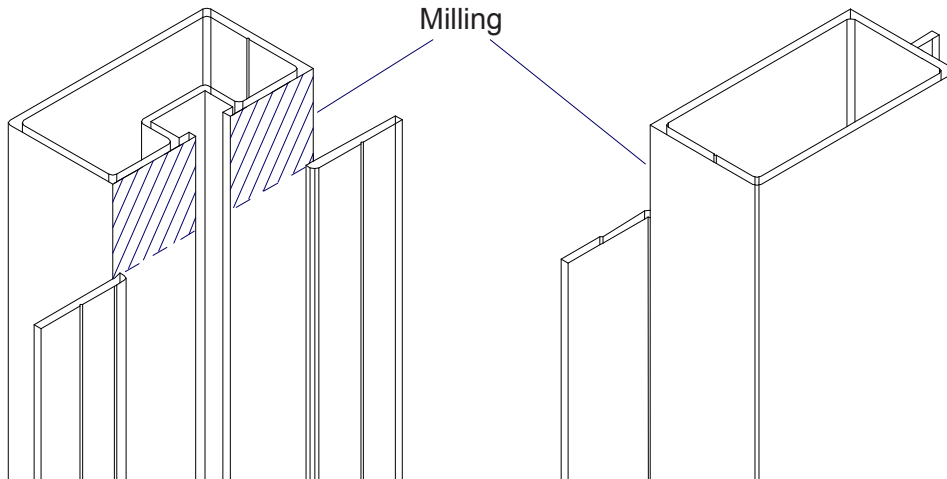
DOOR PANEL DIMENSIONING

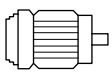

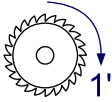
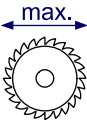
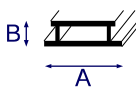
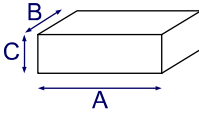



L = INTERNAL PROFILE L - ≥ 6 mm

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

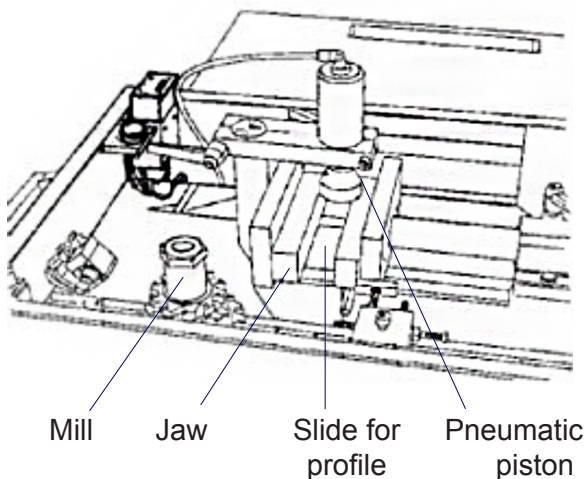
Semi automatic milling machine (omega profiles)

Miller 0-1

Box of 1 pcs.



MILLING CUTTER
Mill 120x4
 Box of 2 pcs.





Single head cutting machine

Cutting-off / 1

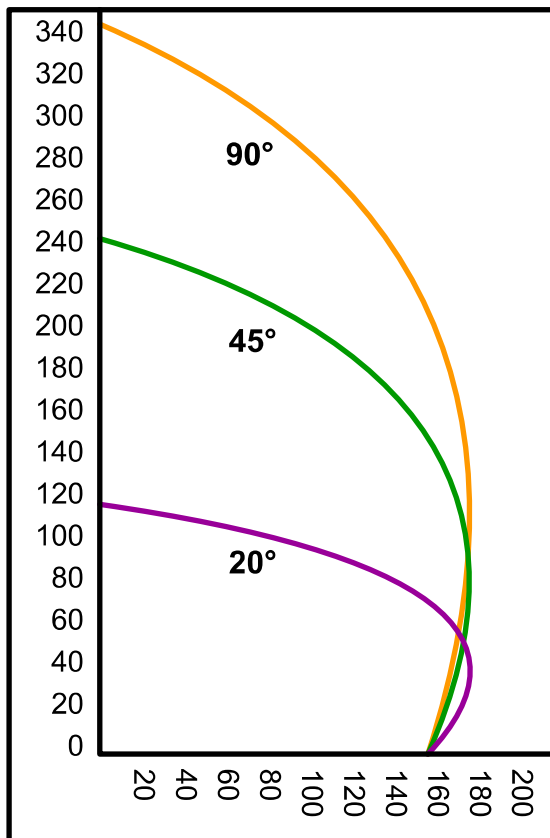
Box of 1 pc.

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

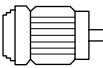

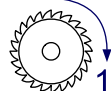
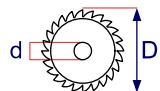
Safety and comfort:


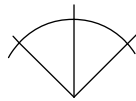
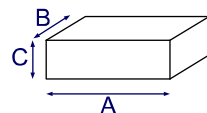

- Full enclosure to provide noise reduction and complete accident protection.
- Chips collection drawer.

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

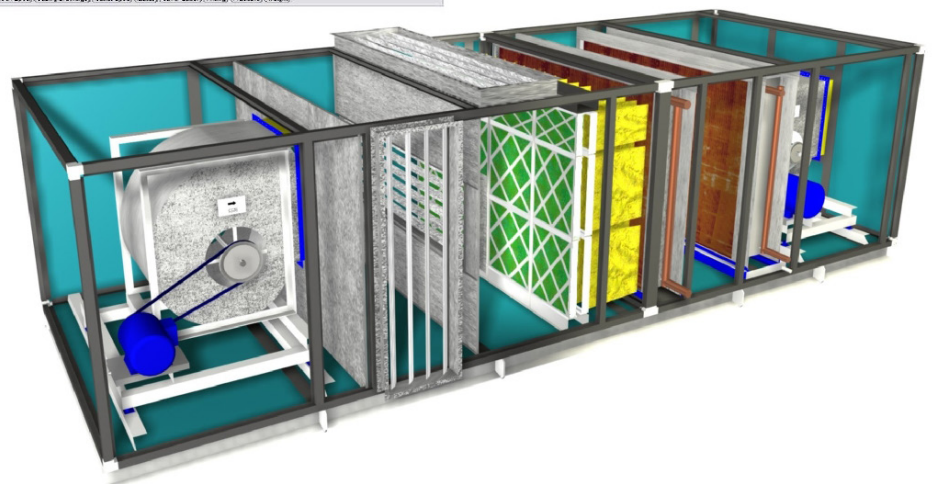
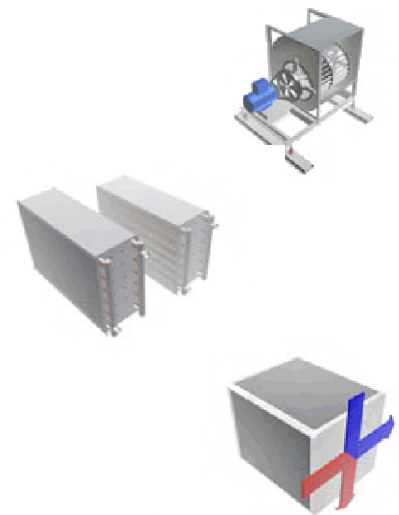
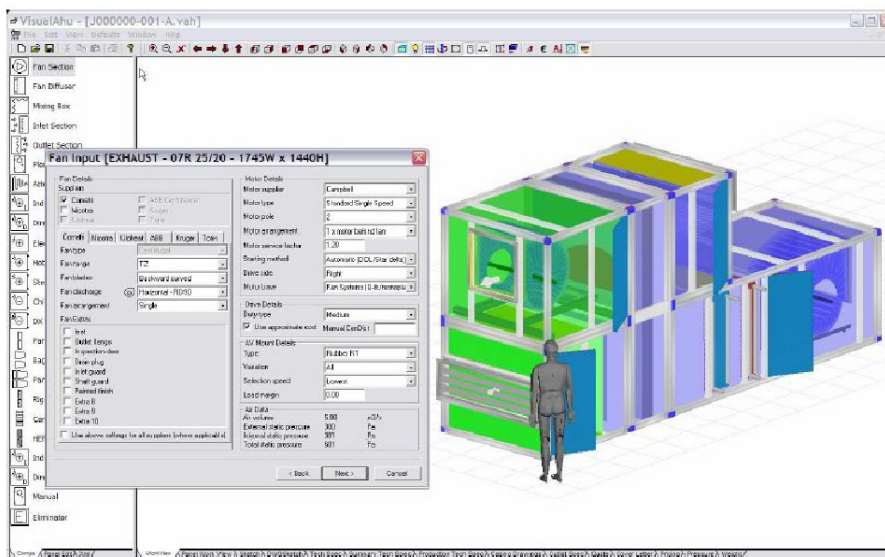
Visual-Ahu: for the selection of the components and the calculation of the costs of production and design. Visual 3D.

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: G 001, 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.

Profili basamento motore ed unità, accessori, slitte tendicinghia.
Sistemi portafiltri.

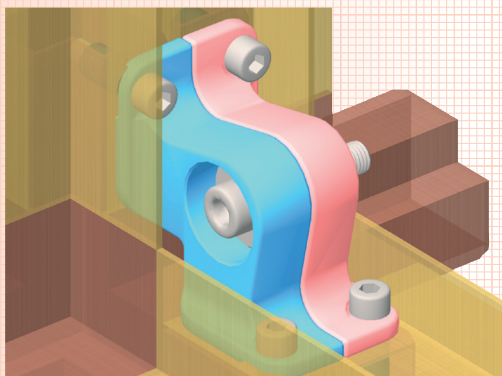
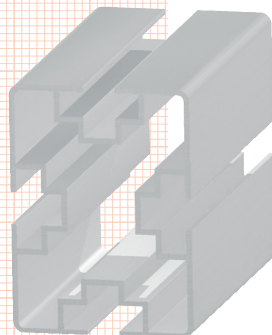
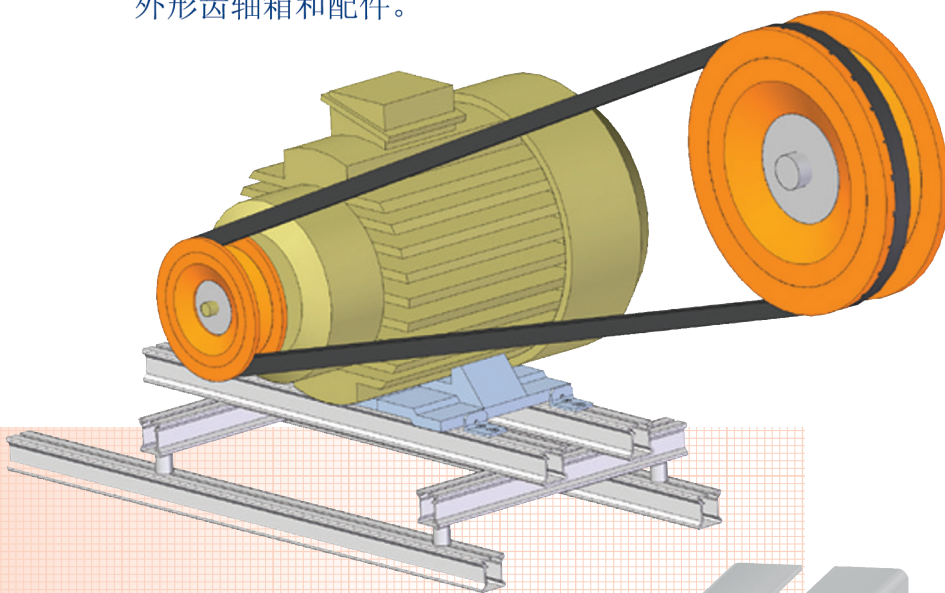
Base profiles and accessories, belt tensioning slides.
Filter holder system.

Profiles de bas pour moteur et unité, accessoires, tendeur de courroie.
Système porte-filtre.

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

Grundprofil und Zubehör.
Systeme filterhalter.

外形齿轴箱和配件。



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02

TIGHTING SADDLES

Tighting saddles are available in different sizes to support and tighten the belt of fan/motor of various dimensions. The materials used are galvanised and stainless steel.

ALUMINIUM BASE PROFILES AND ACCESSORIES, BELT TENSIONER FOR FAN AND MOTOR

The base profiles are used to support motors, fans and other types of equipment which need anchoring. They are extremely simple to assemble and, as a result, the belt tensioning process becomes easier. Belt adjustment is performed through the “belt tensioner” DN 400-800 and the plates DS that fasten all the equipments on the BAS profiles. The use of this system makes belt maintenance an easy task, as the DN 400-800 can be adjusted with a normal spanner.

Please note that the profiles are usually fastened to the rest of the structure from the top. Hence the profiles ends are often cut to 45° to create a better access for the tools used.

BASE PROFILES FOR AHU

Profiles BAS 151-50 and BAS 100-50 are mostly used as a base for the unit and are fastened together with the structural profiles.

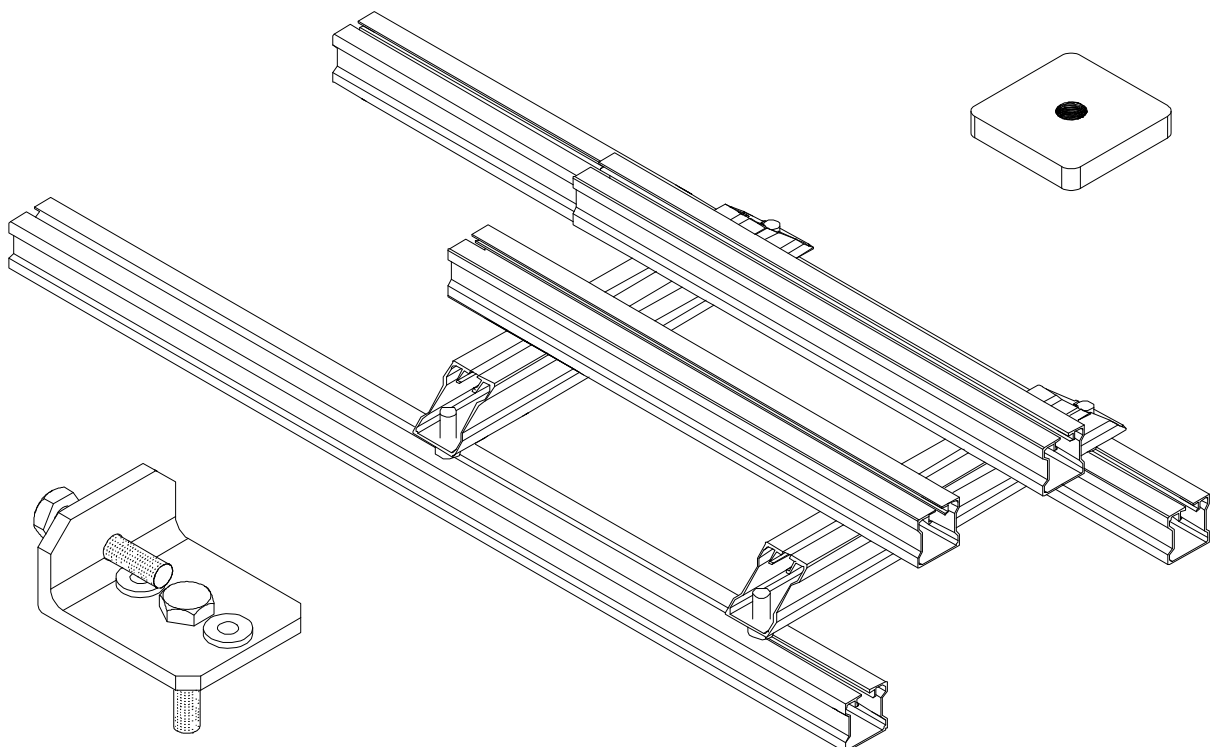
The most used and most effective system is the base profile BAS 100-30 TL and its corner A 100, that creates a continuous frame applied under the AHU. These two coupled elements determine a solid and robust base which guarantees stability to the machine.

There are support feet in aluminum or galvanised steel, which are fixed to the base profile or directly to the structure; it is also available an adjustable foot support that allows you to determine the height of the unit (A 100 series F / FS).

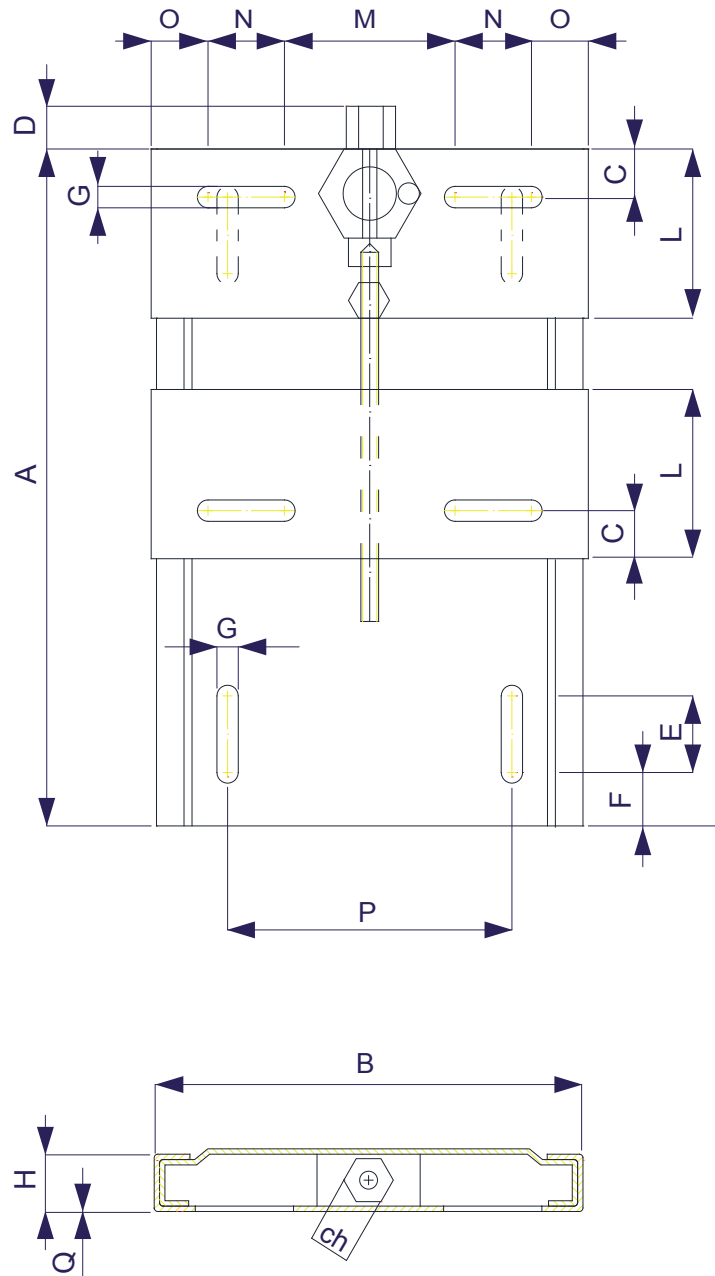
FILTER HOLDER SYSTEM

The filter holder system houses and supports the filters in the air handling machine. These profiles are suitable for filters with thicknesses ranging from 25 mm to 48 mm. The filter holder profiles are designed to support two filters in parallel (filter and pre-filter).

There is also a version that houses a pressure plug between the two filters. The gasket G003 F 1 is mounted on the profile to guarantee stability to the filter, to minimize vibrations and to avoid air leakage.

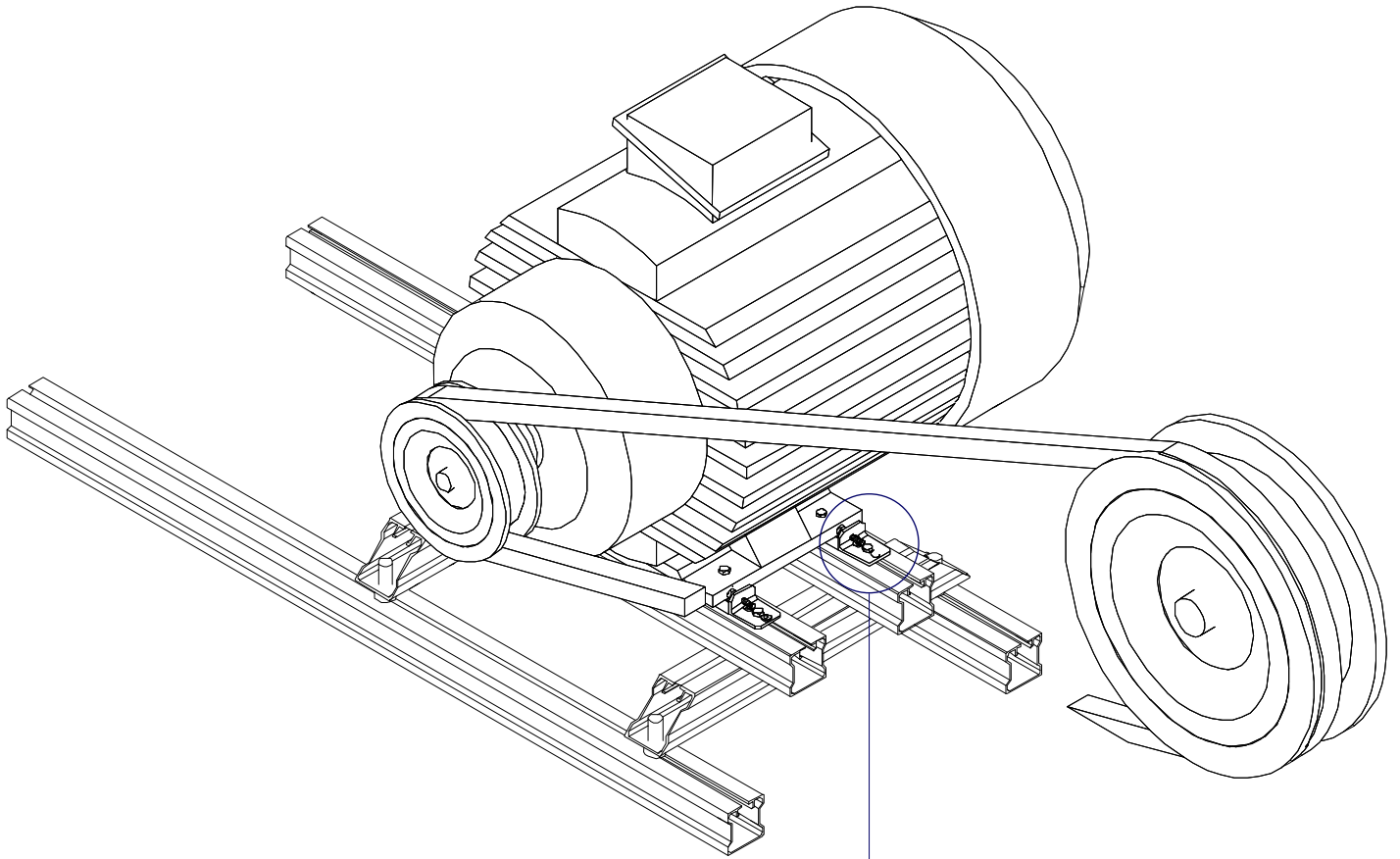


TIGHTING SADDLE SYSTEM FOR MOTOR / FAN BELT

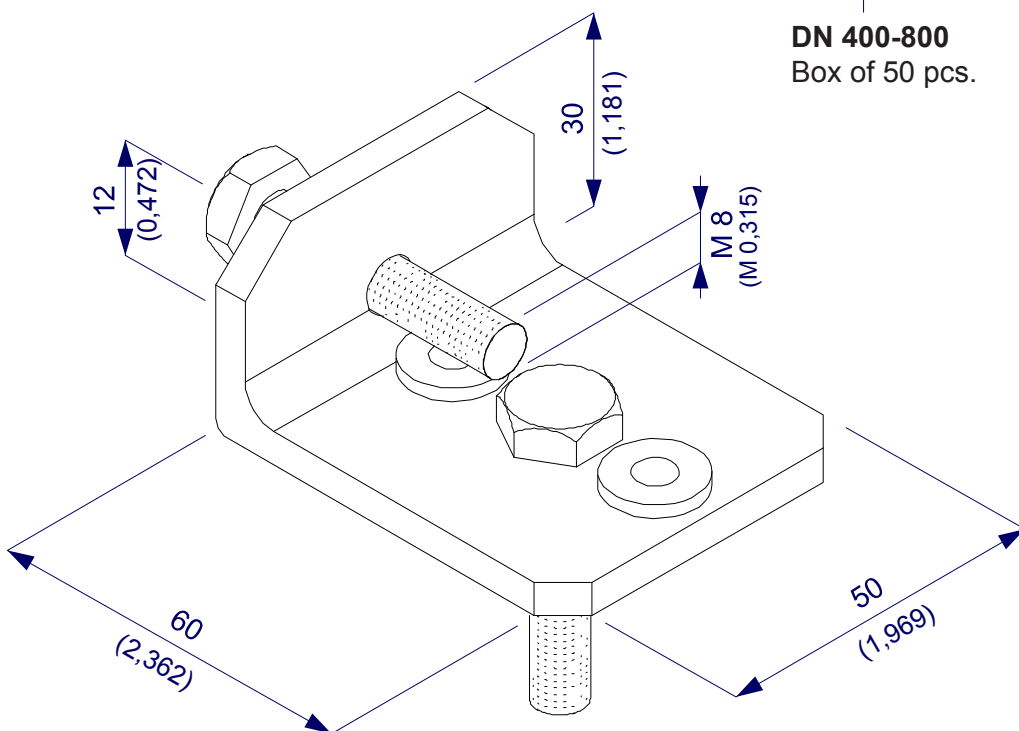


DS-TS AxB AVAILABLE IN DIFFERENT SIZES AND MATERIAL:
 - GALVANIZED STEEL
 - STAINLESS STEEL

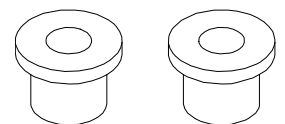
3D representation of motor-frame



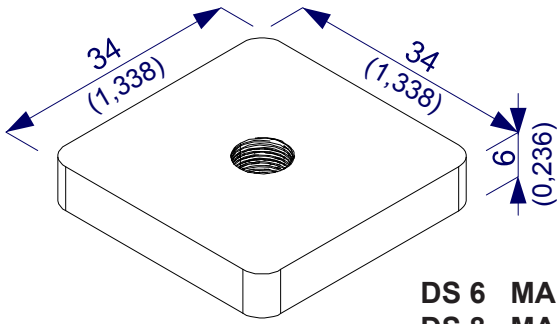
DN 400-800
Box of 50 pcs.



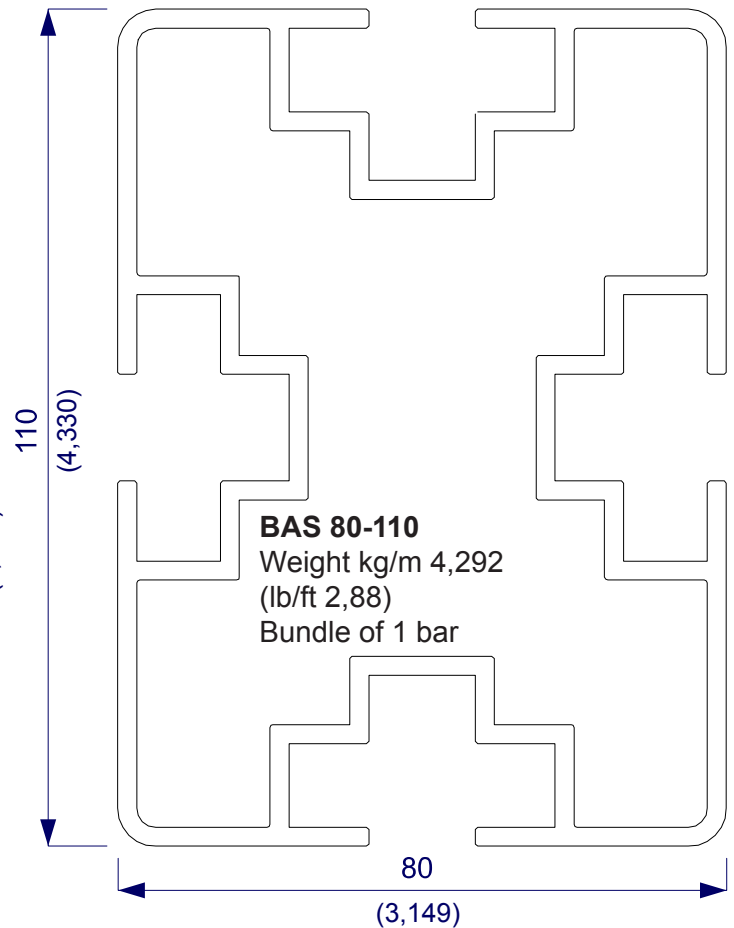
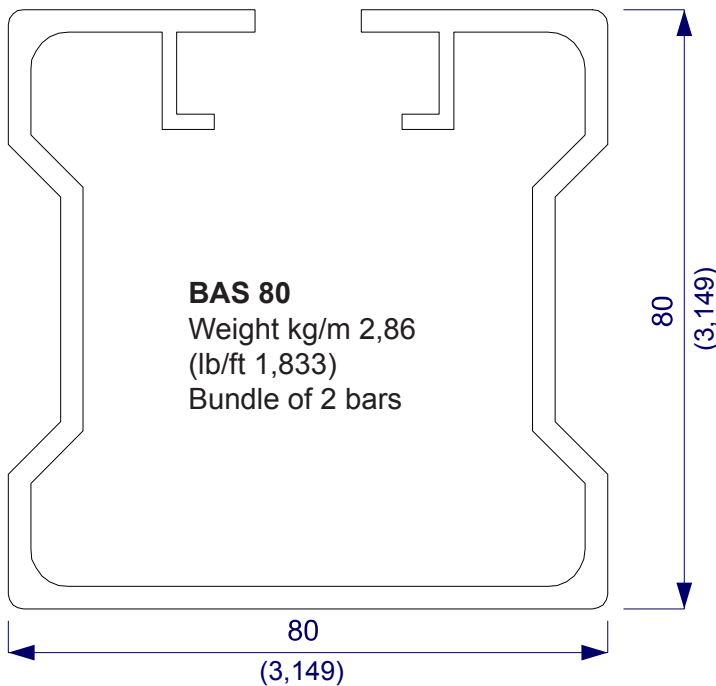
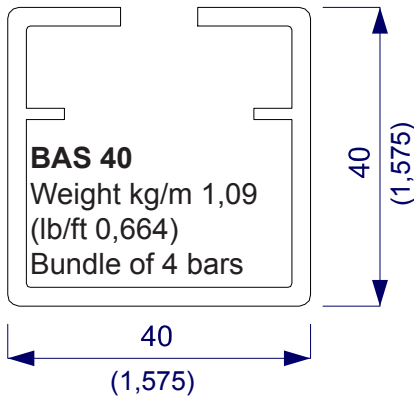
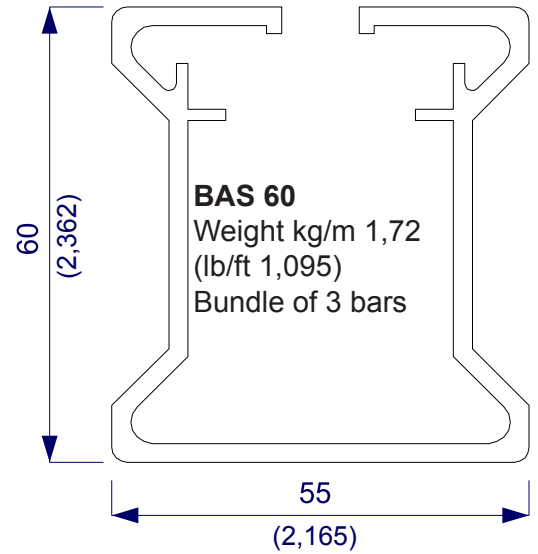
Caps for belt
tensioner

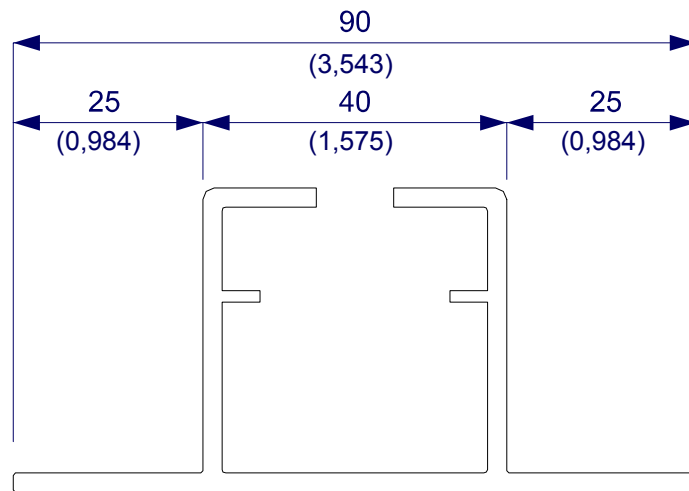


Steel plate for profile grooves



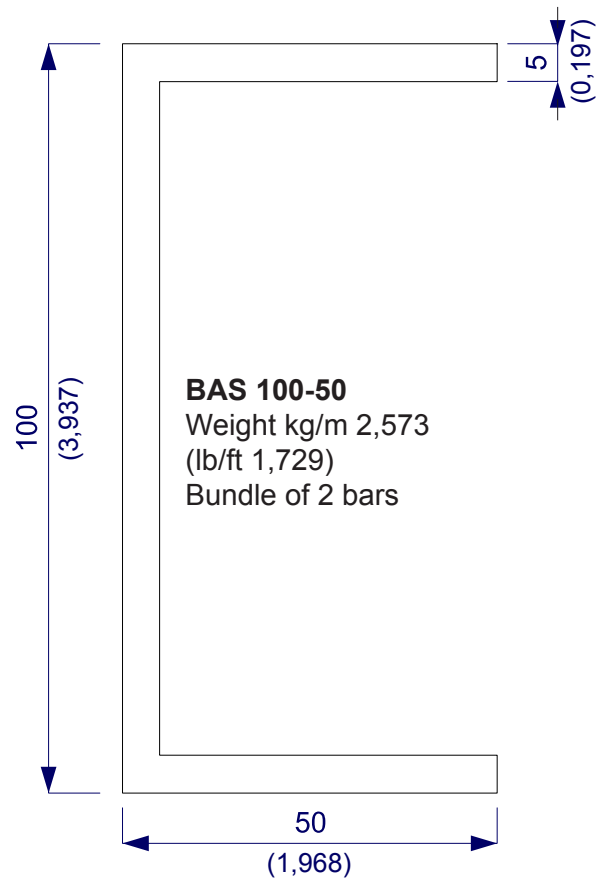
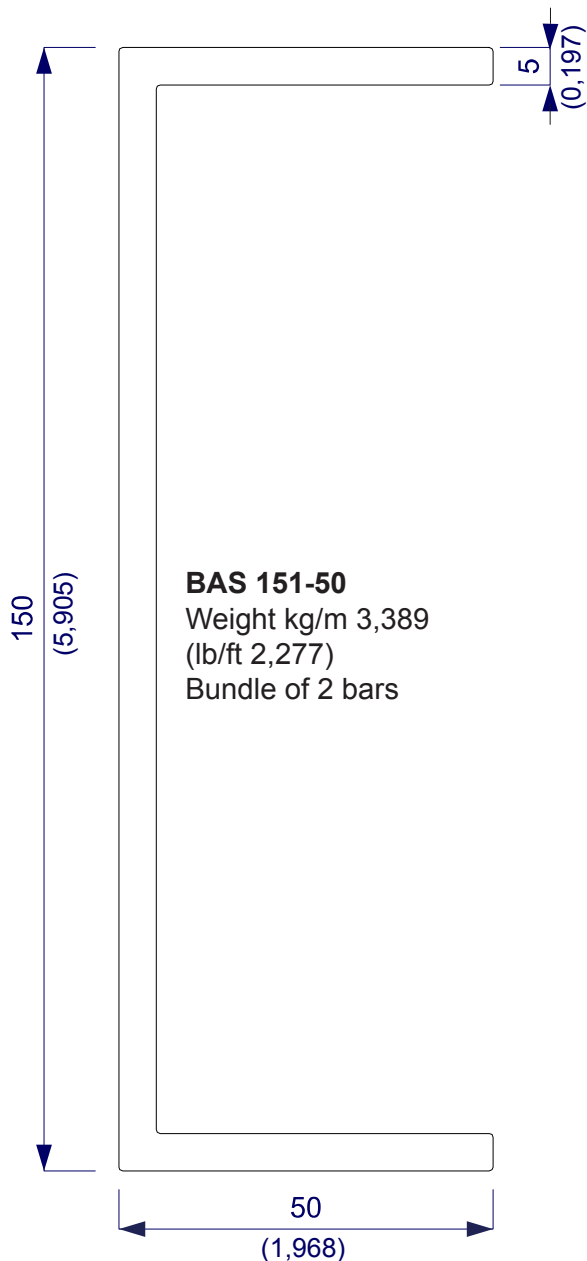
DS 6 MA Steel plates 34x34x6
DS 8 MA Steel plates 34x34x6
DS 10 MA Steel plates 34x34x6
DS 12 MA Steel plates 34x34x6
 Box of 500 pcs.

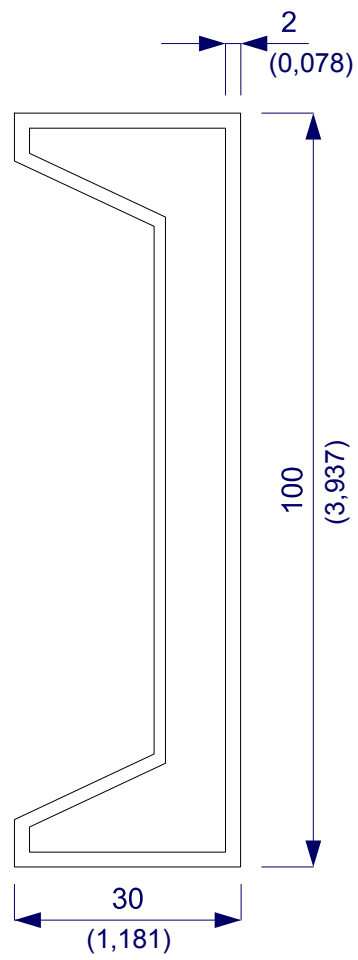




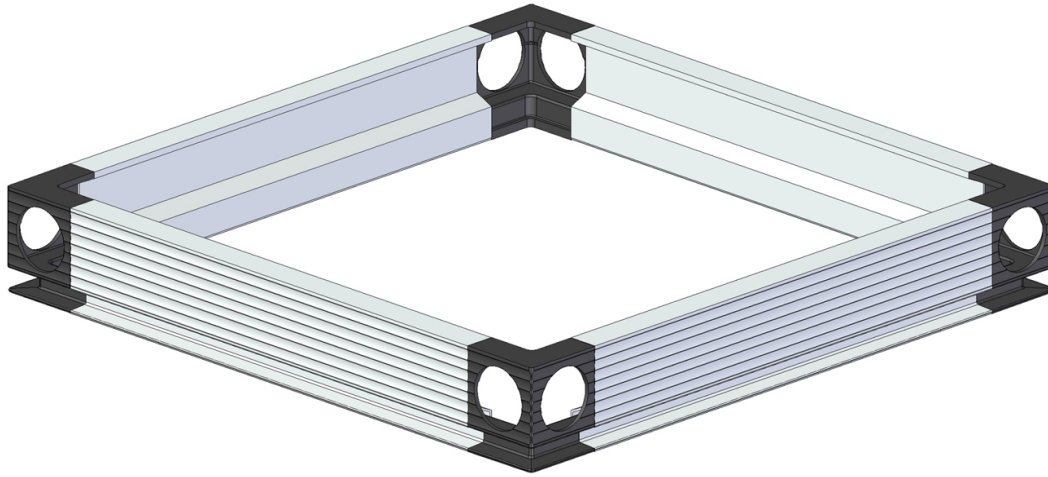
BAS 41
Weight kg/m 1,362
(lb/ft 0,915)
Bundle of 3 bars

BASES

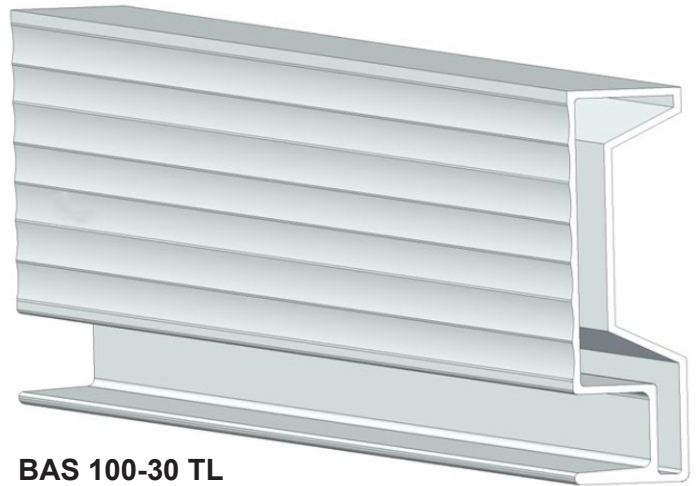




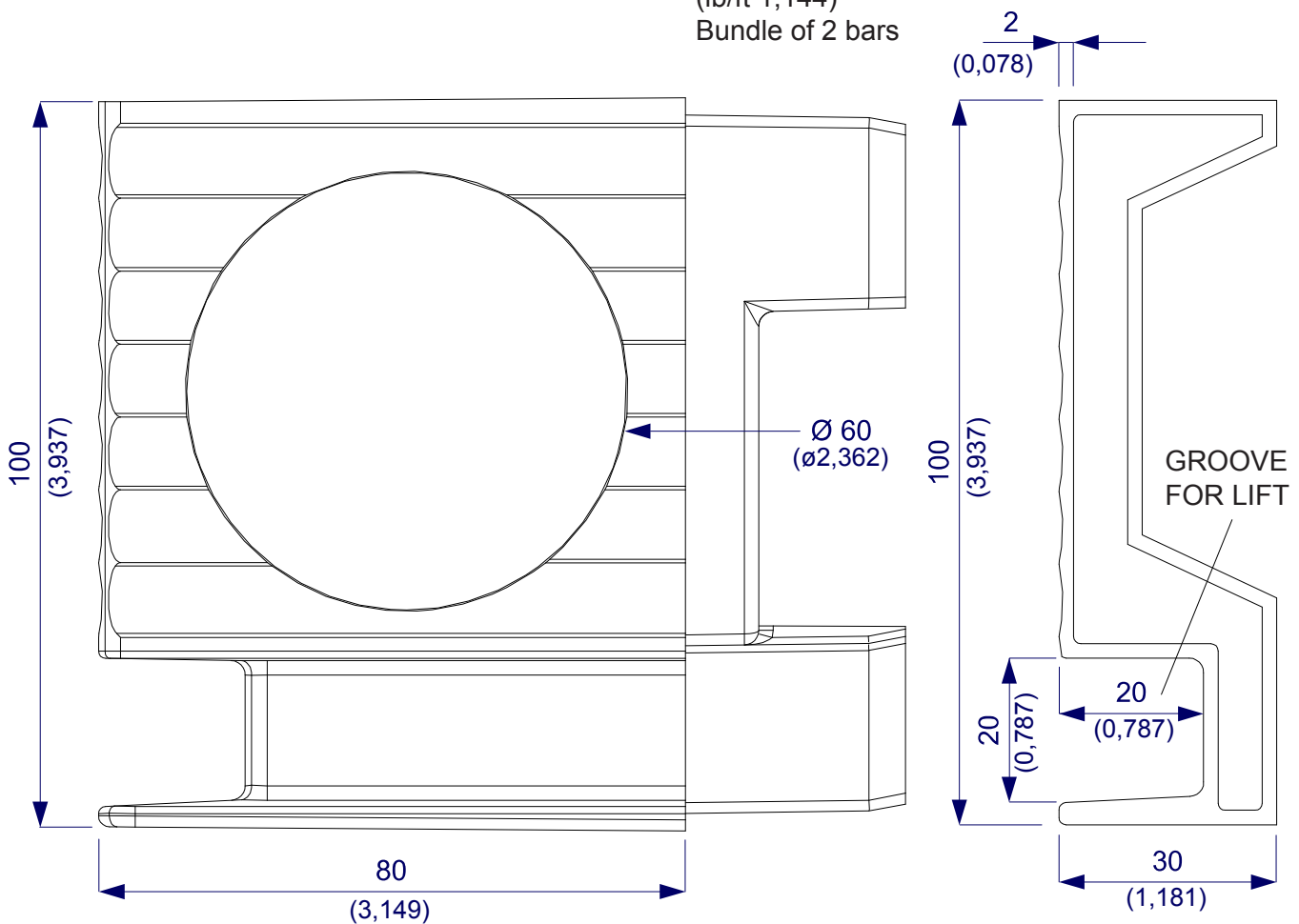
BAS 100-30 T
Weight kg/m 1,376
(lb/ft 0,925)
Bundle of 1 bar



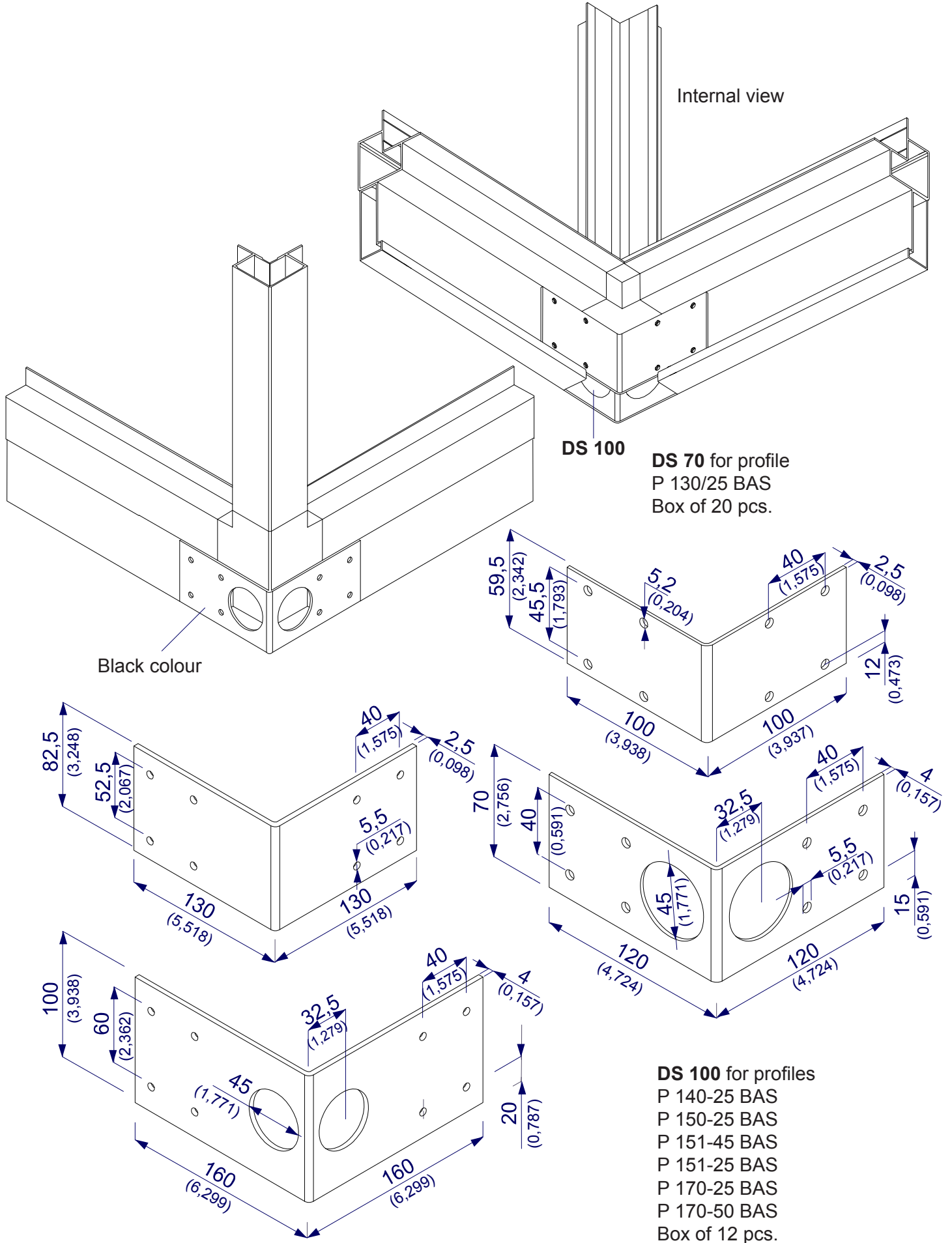
A 100
Box of 50 pcs.



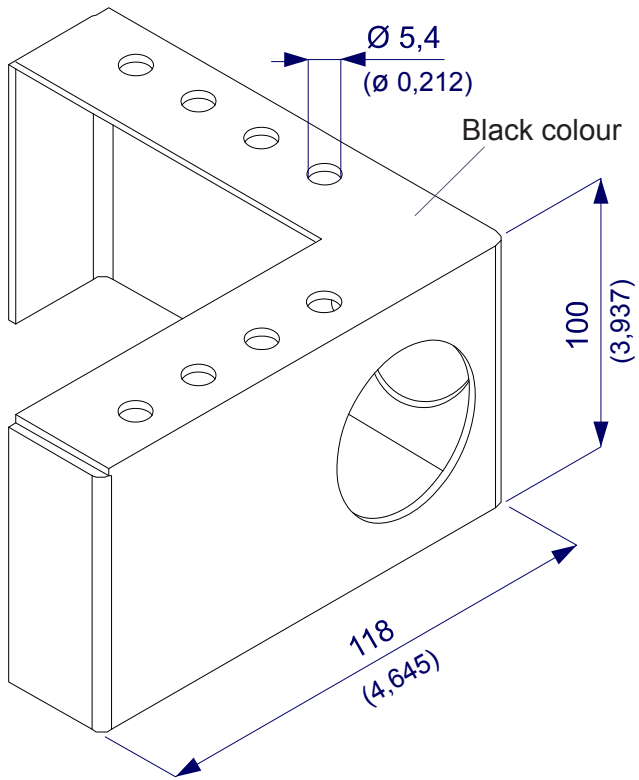
BAS 100-30 TL
Weight kg/m 1,702
(lb/ft 1,144)
Bundle of 2 bars



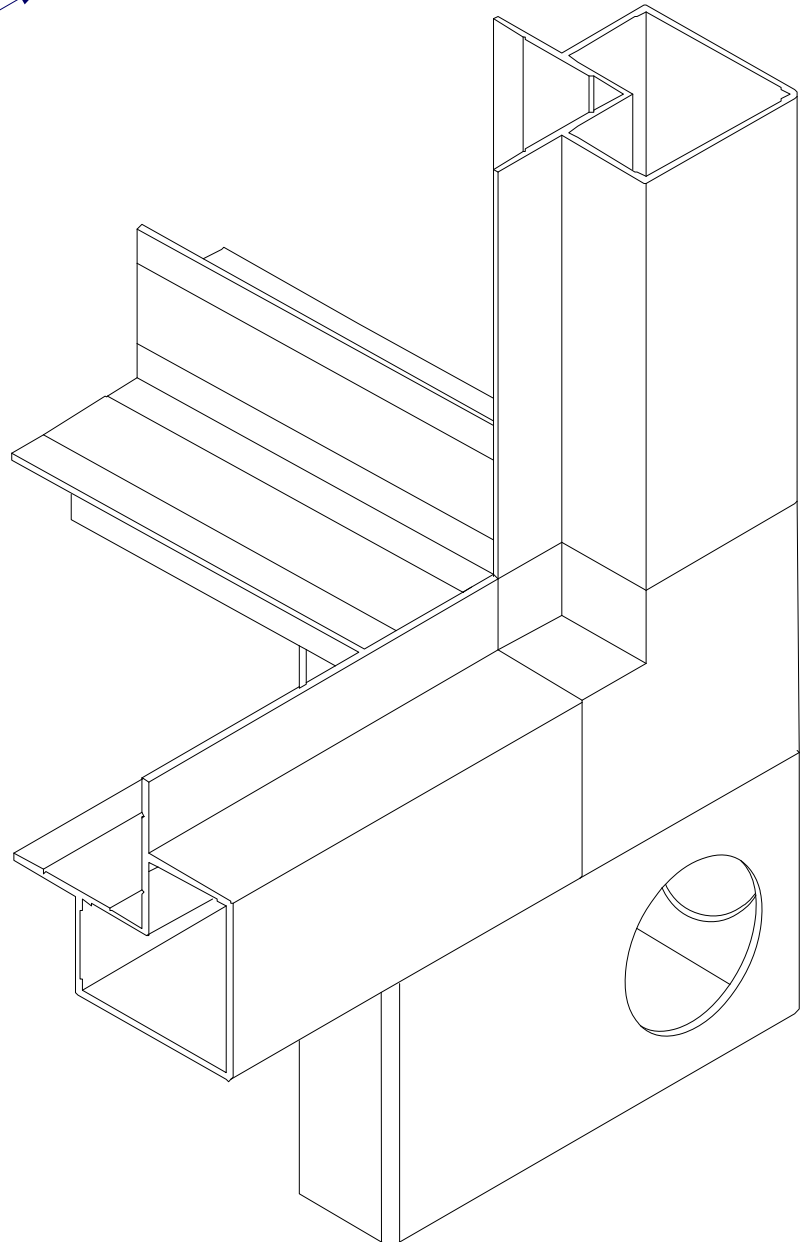
Steel joint for base profiles



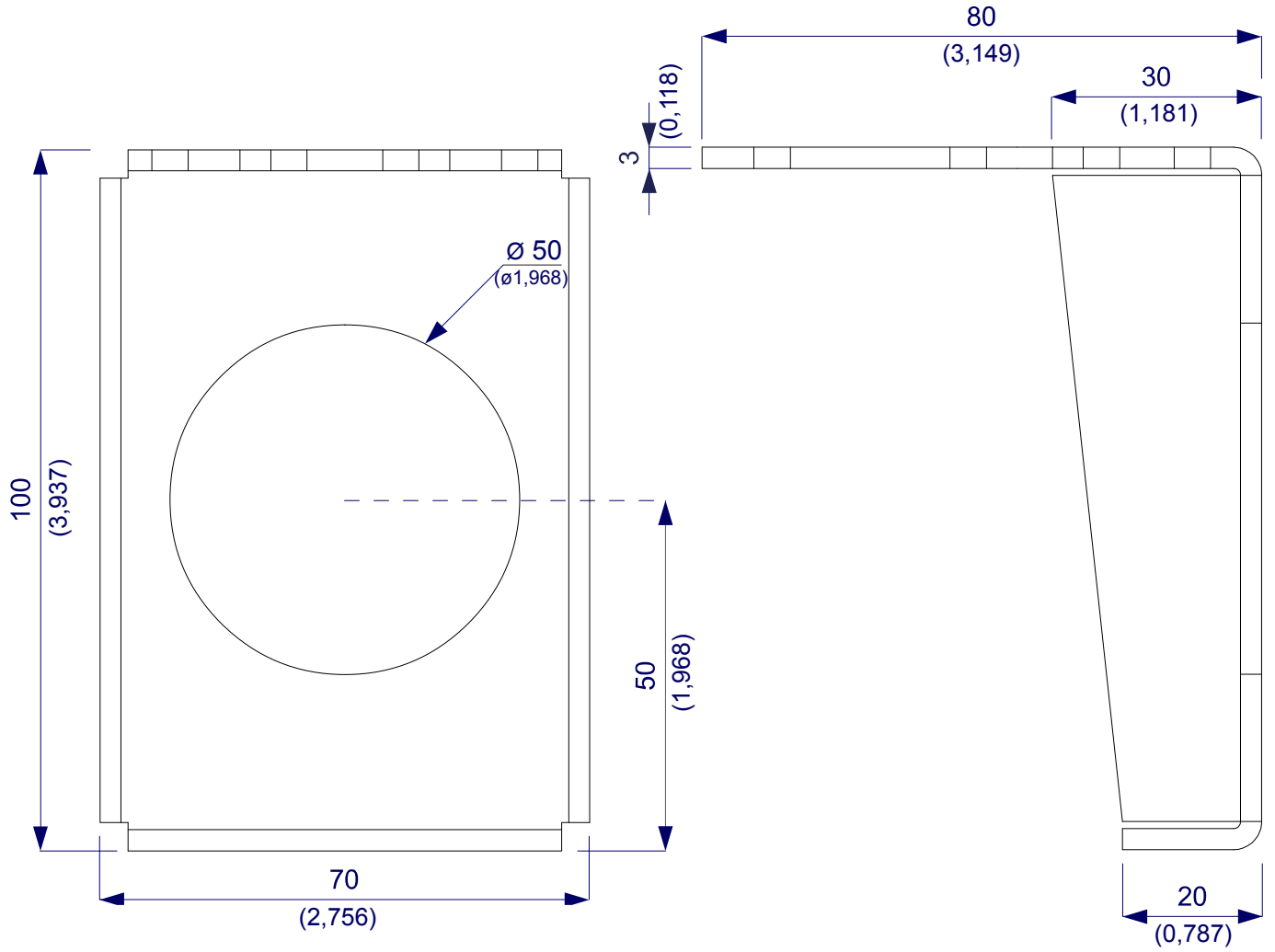
Steel foot



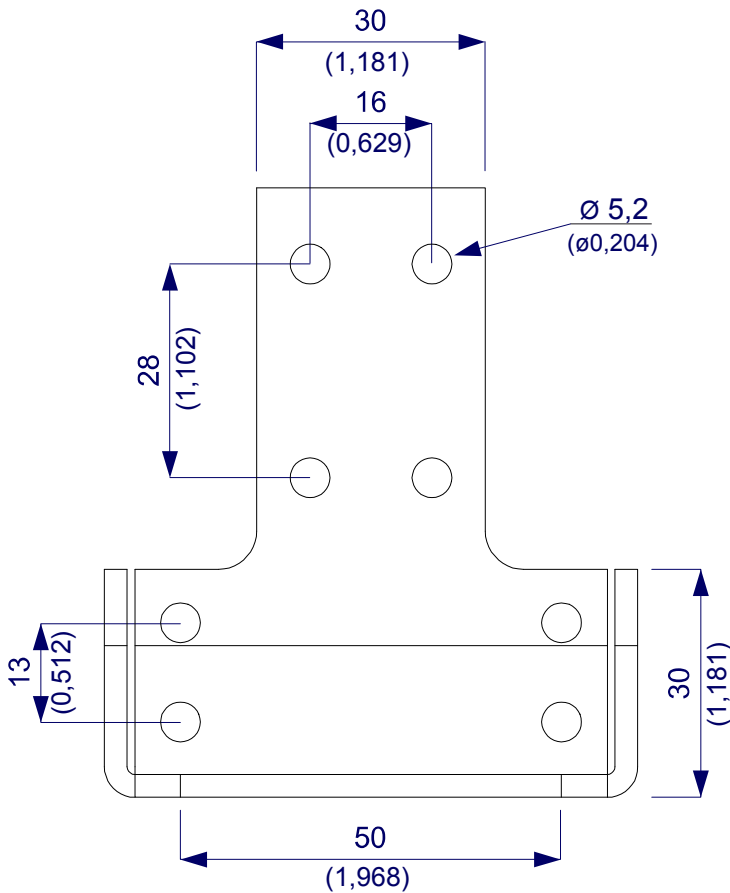
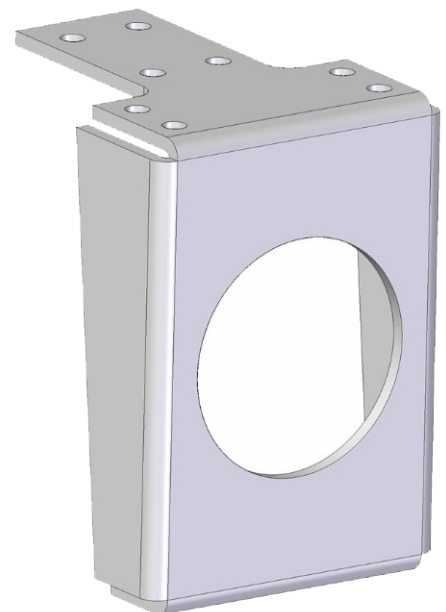
DS 105
Box of 30 pcs.



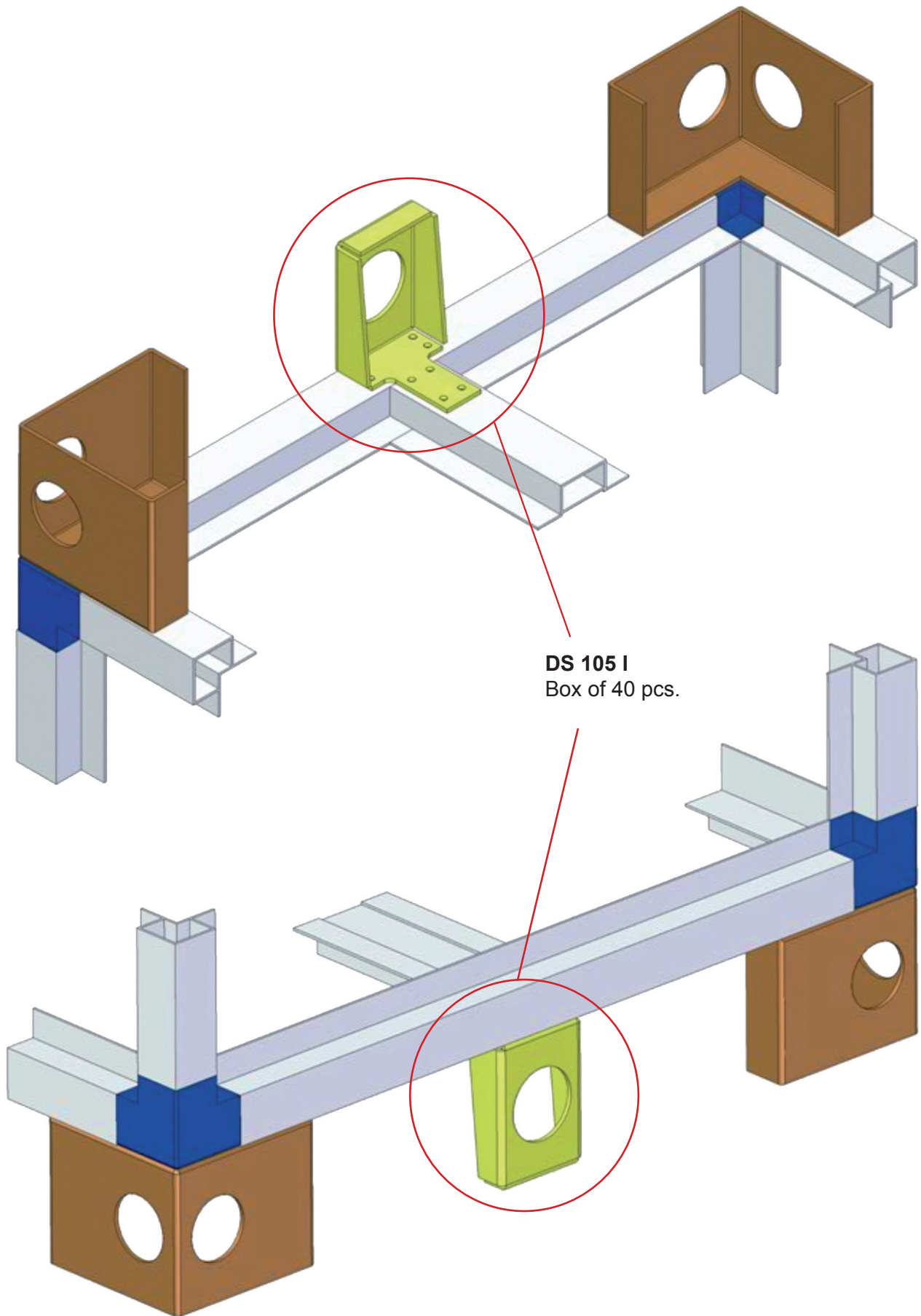
Intermediate steel foot



DS 105 I
Box of 40 pcs.

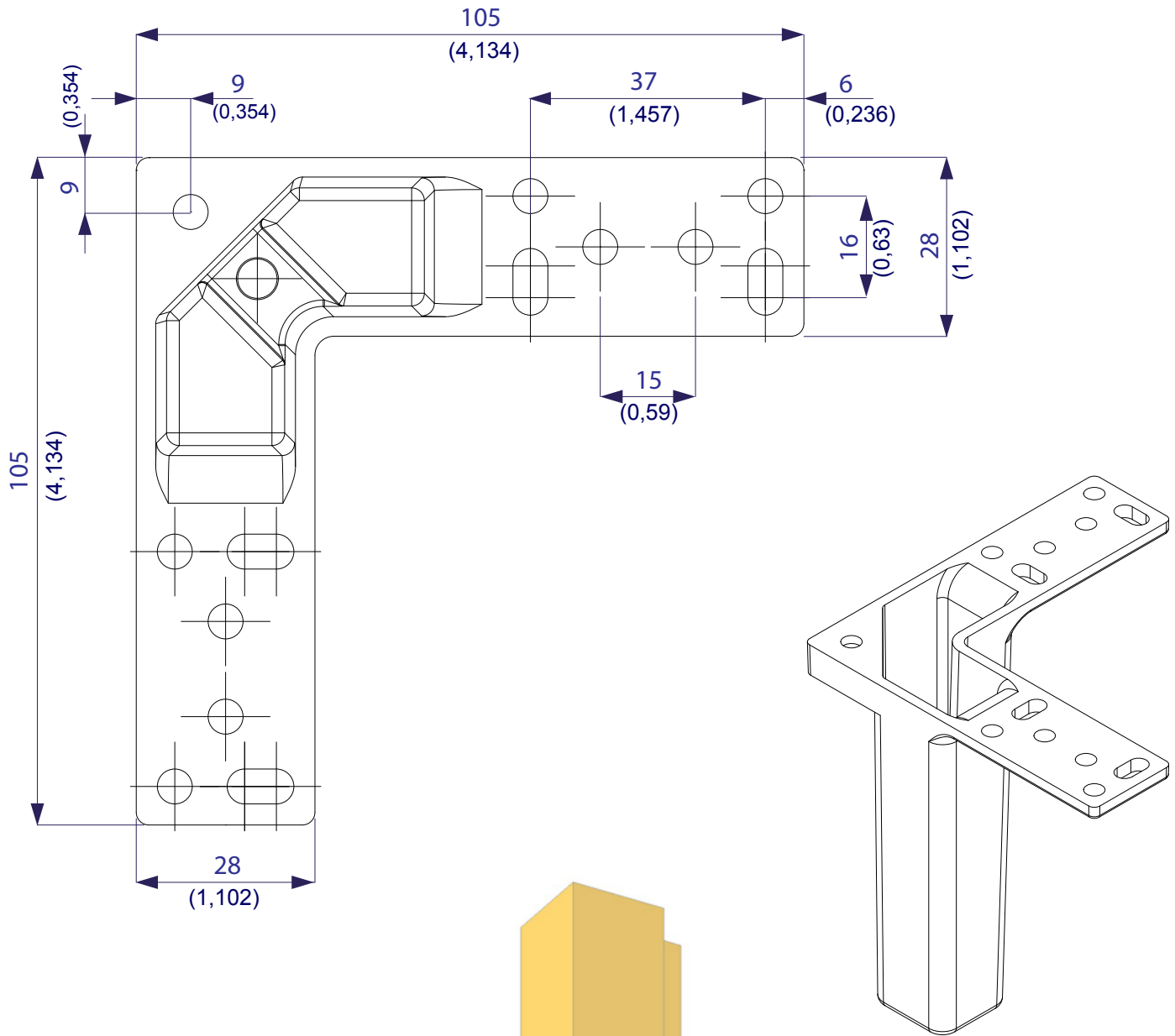


Intermediate steel foot

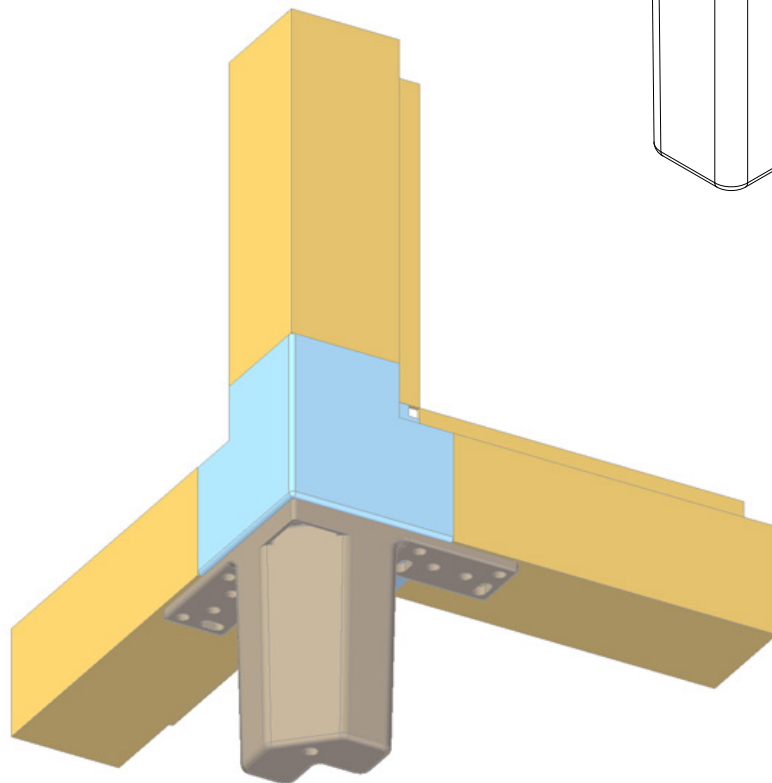


DS 105 I
Box of 40 pcs.

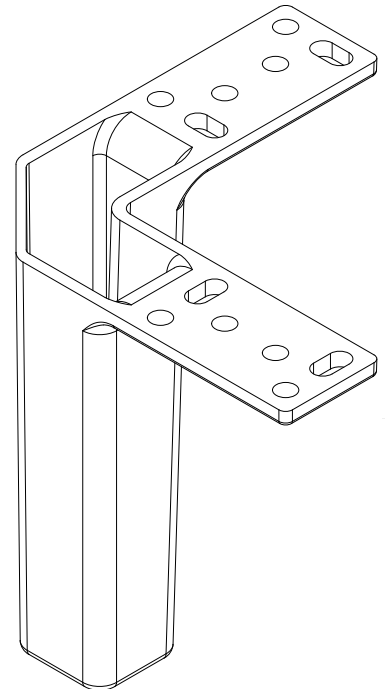
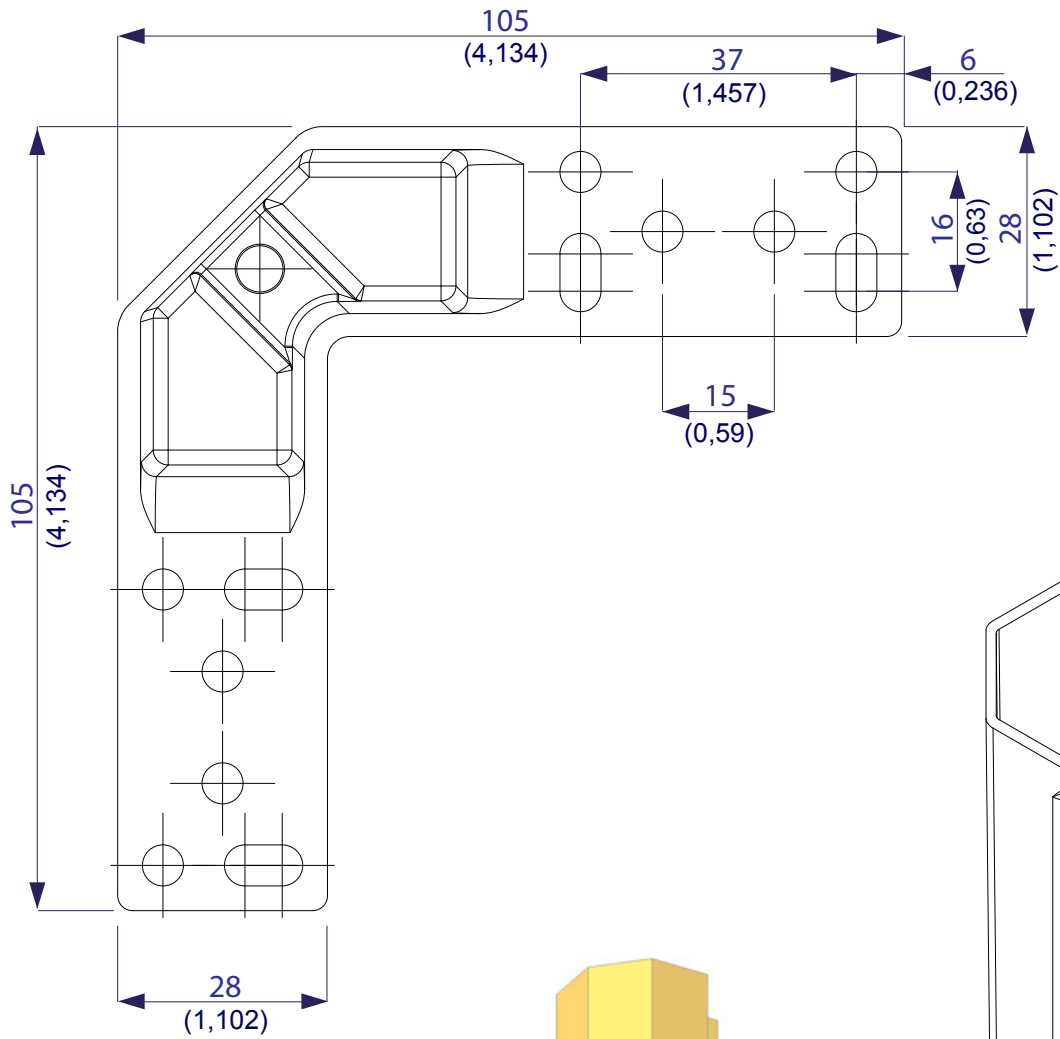
Aluminium foot



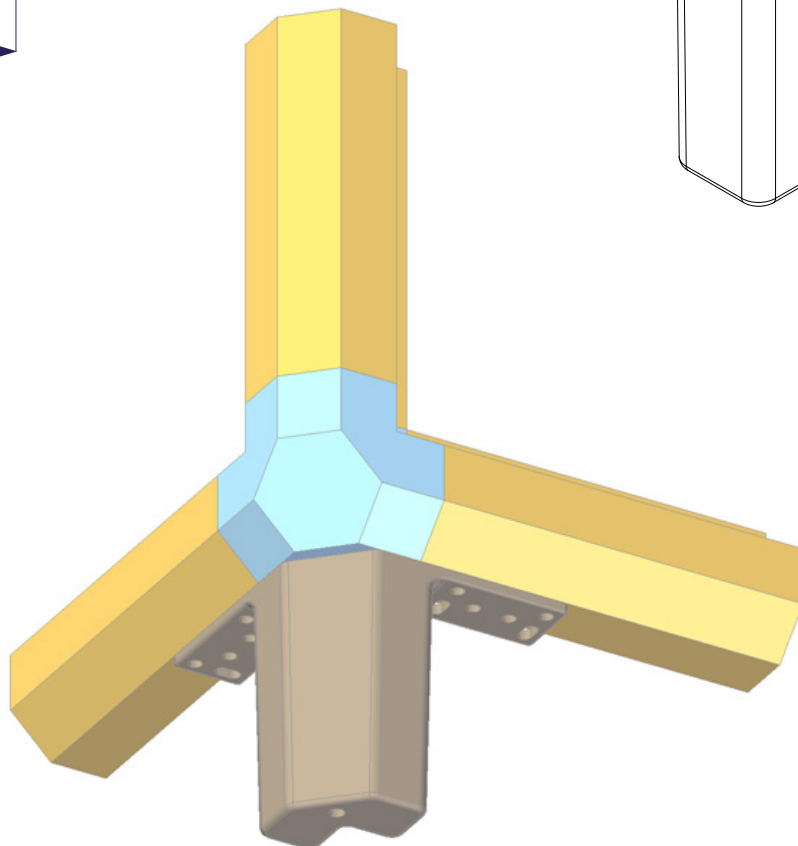
A 100F
Box of 74 pcs.



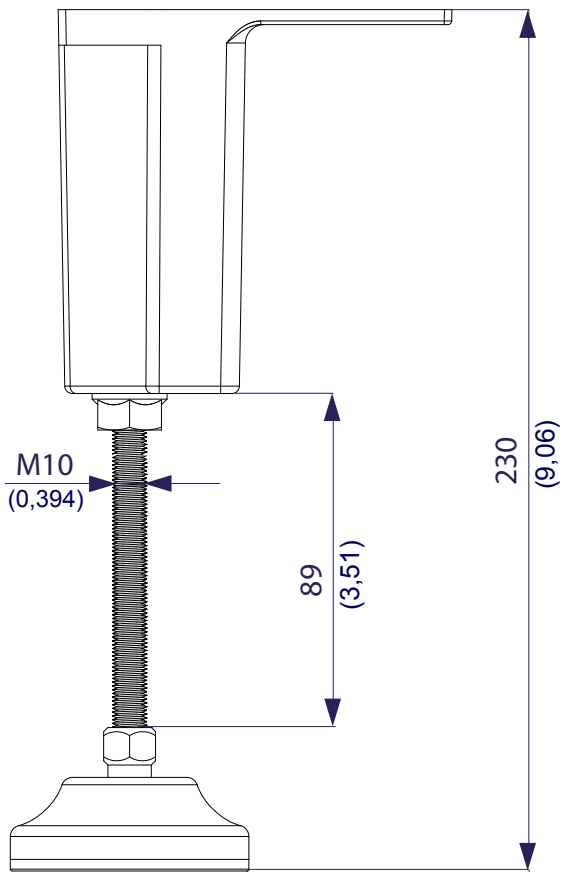
Aluminum foot



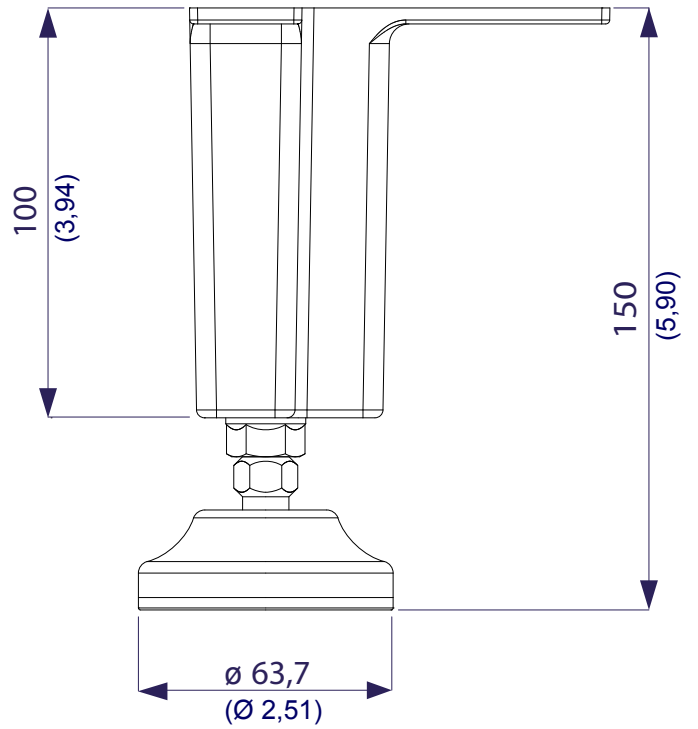
A 100FS
Box of 74 pcs.



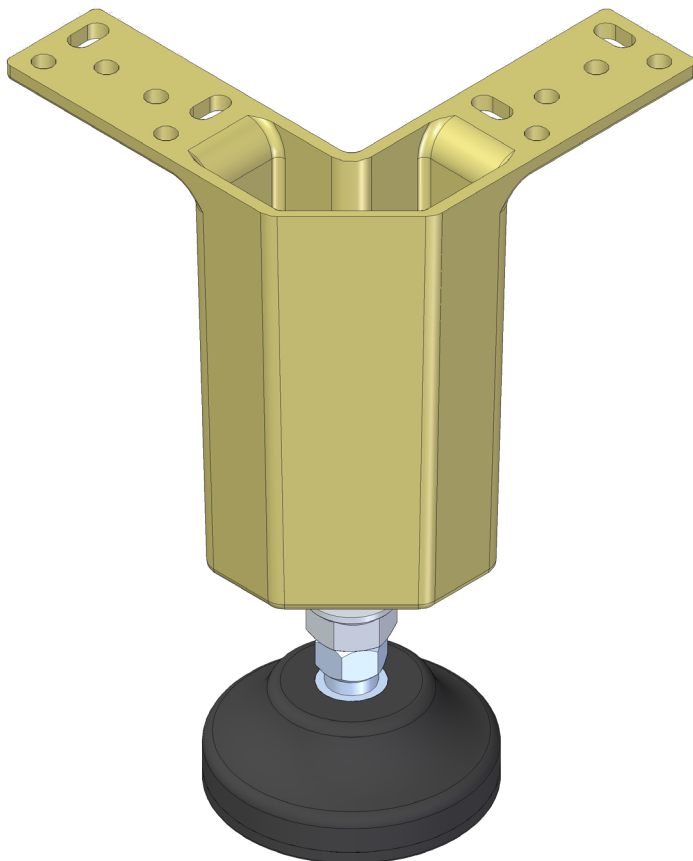
Aluminium foot h 100 mm with adjustable polyamid base h 150-230 mm



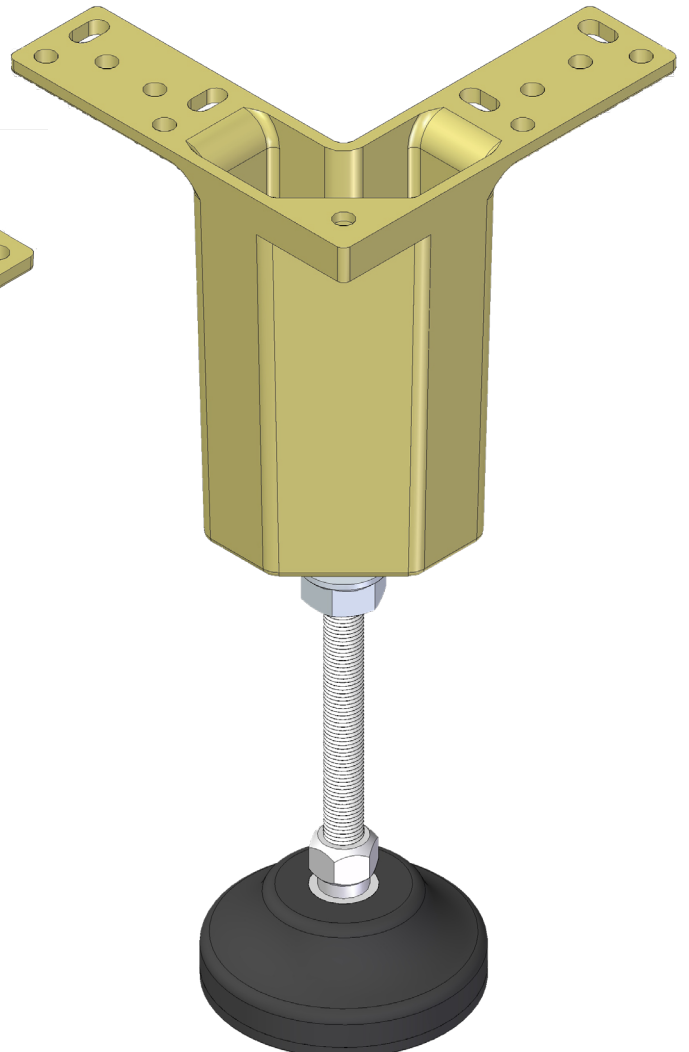
A100 F_NF 65-100X10
Box of 20 pcs.



A100 FS_NF 65-100X10
Box of 20 pcs.



A100 FS_NF 65-100X10

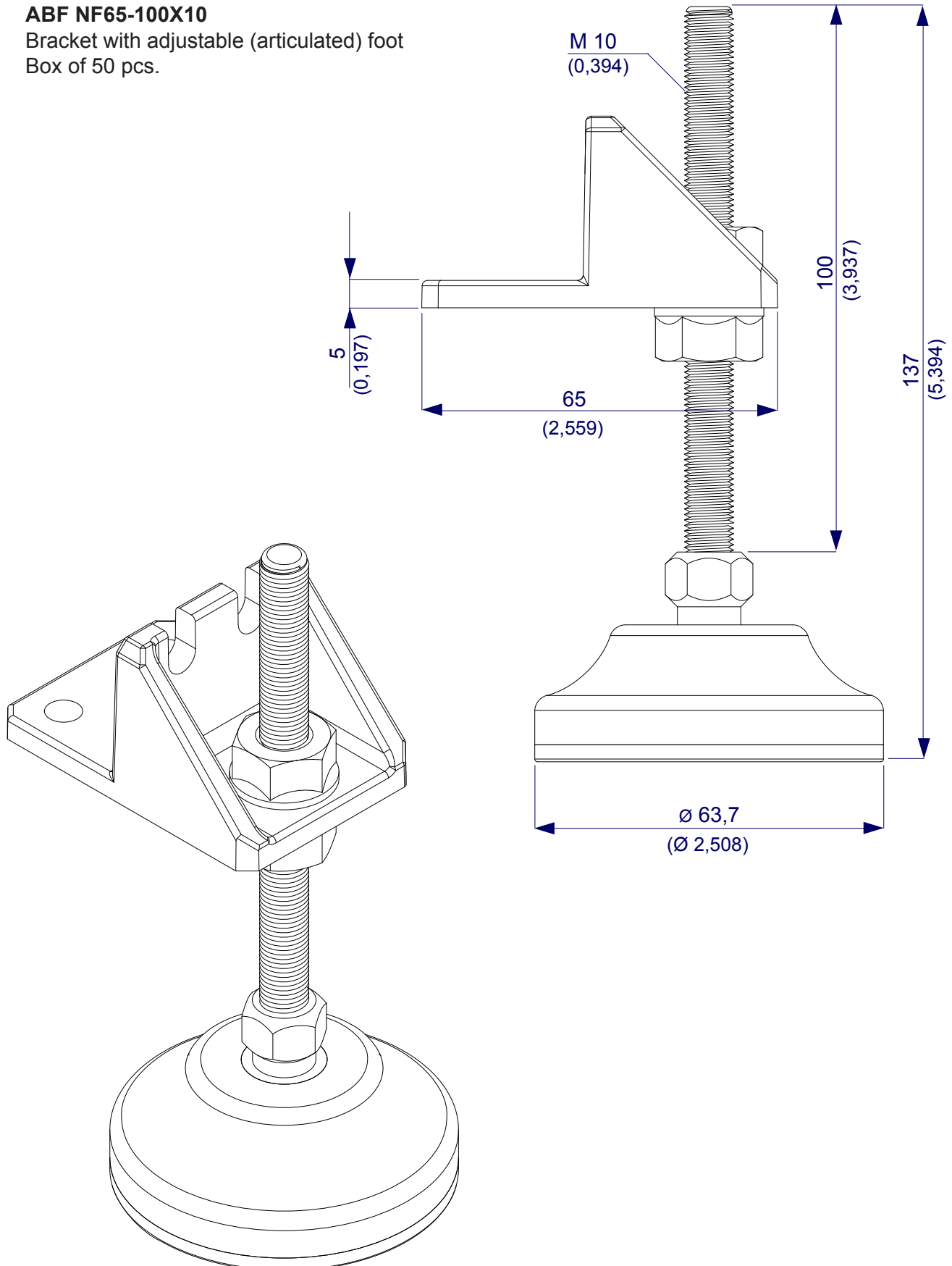


A100 F_NF 65-100X10

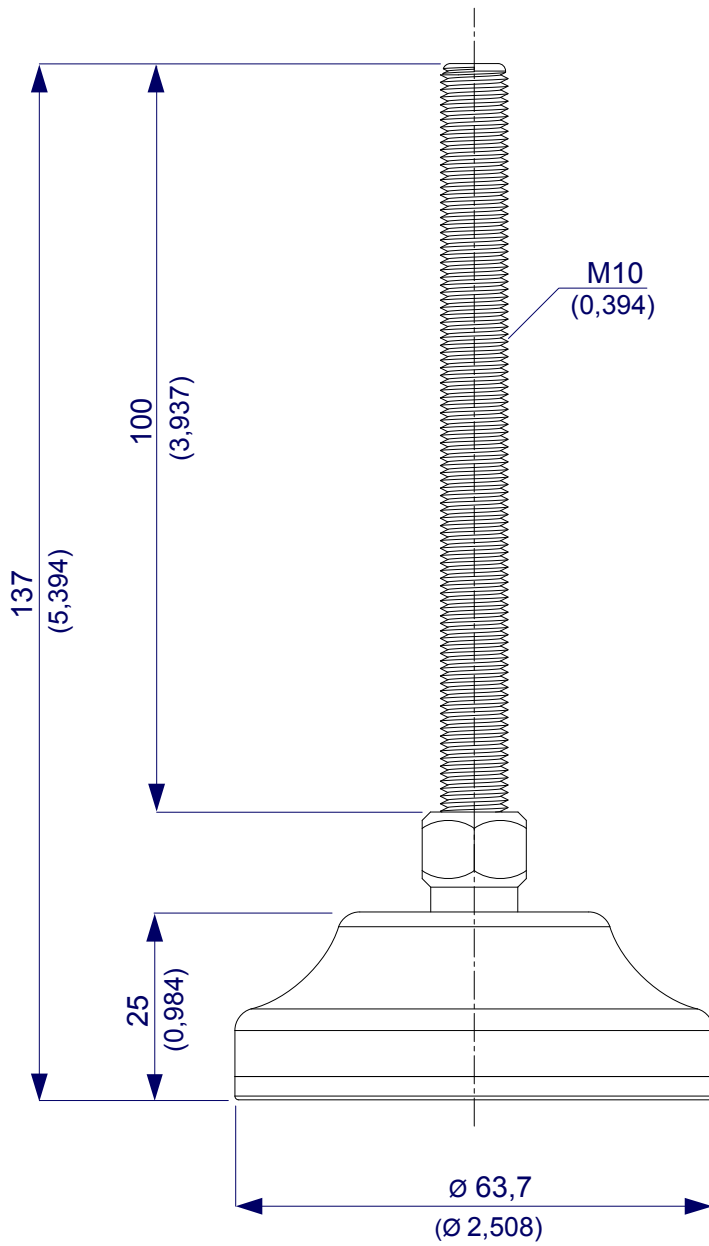
Bracket with adjustable (articulated) foot

ABF NF65-100X10

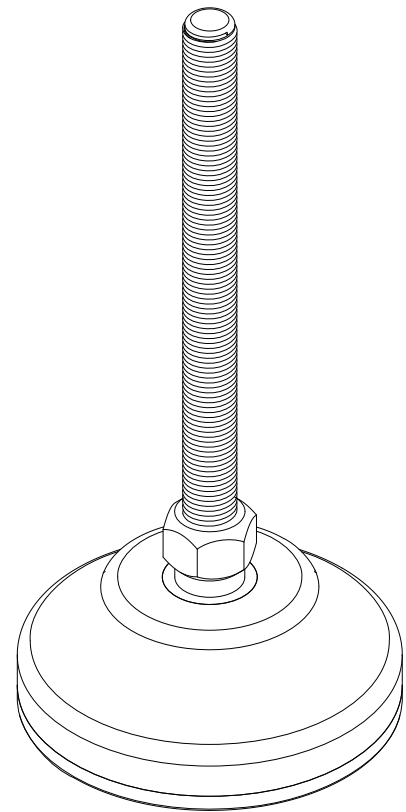
Bracket with adjustable (articulated) foot
Box of 50 pcs.

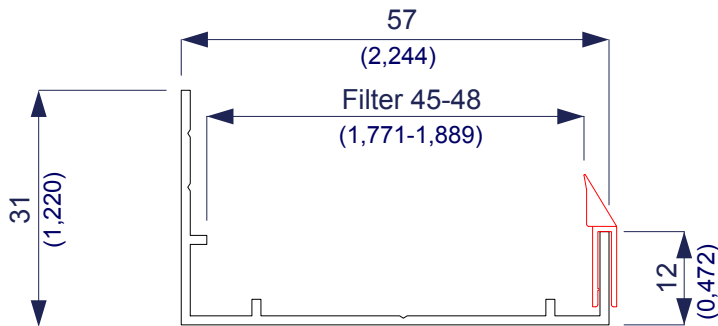


Adjustable (articulated) foot



NF 65-100X10
Box of 70 pcs.



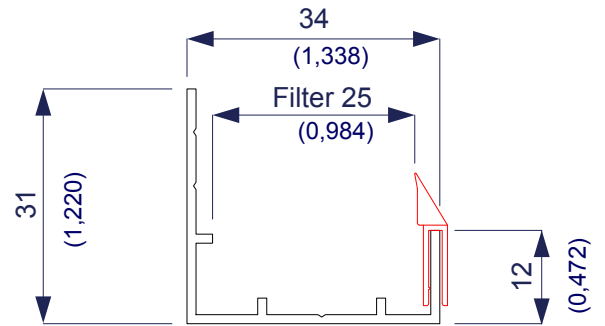


PF48 G

Weight Kg/m 0,348

(lb/ft 0,234)

Bundle of 4 bars

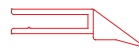


PF25 G

Weight Kg/m 0,268

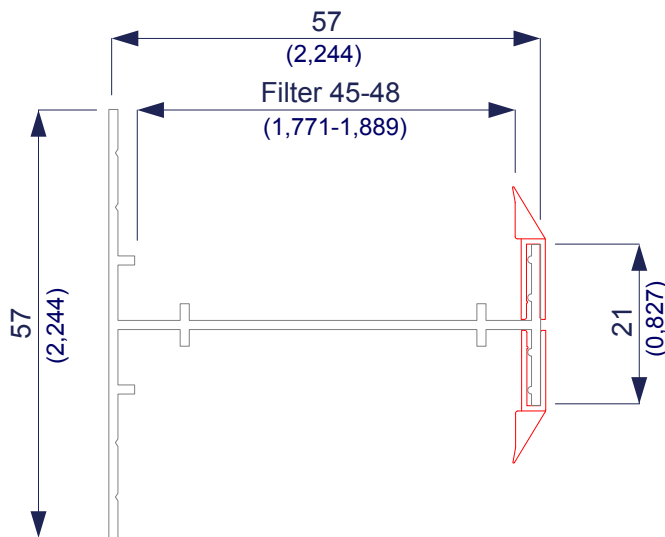
(lb/ft 0,180)

Bundle of 8 bars



G003 F 1

Bundle of 100 mt.

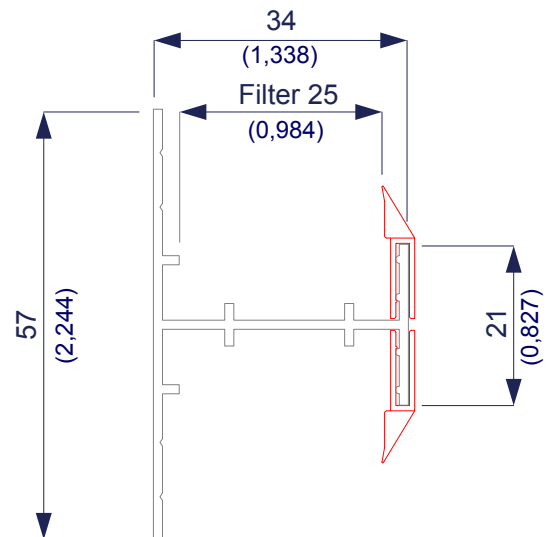


PF48 G-D

Weight Kg/m 0,488

(lb/ft 0,328)

Bundle of 3 bars

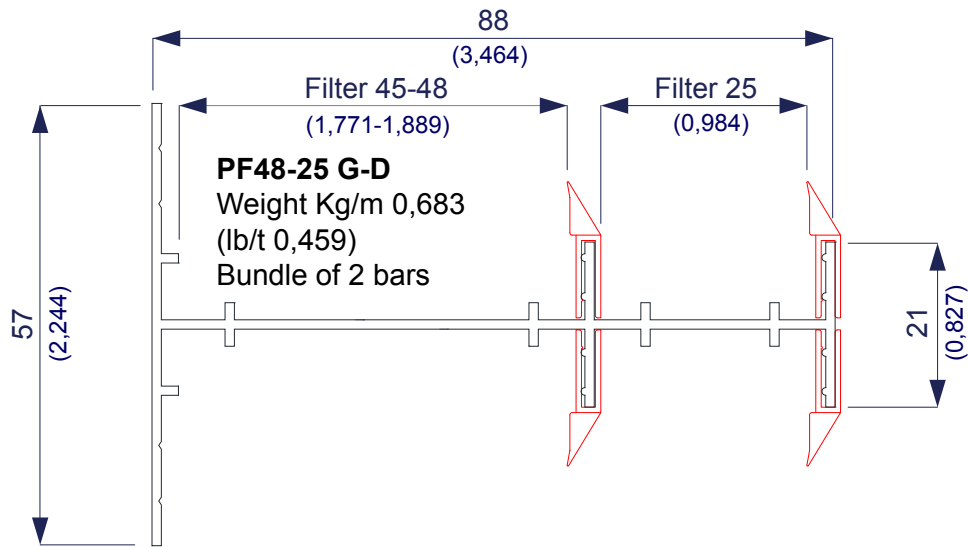
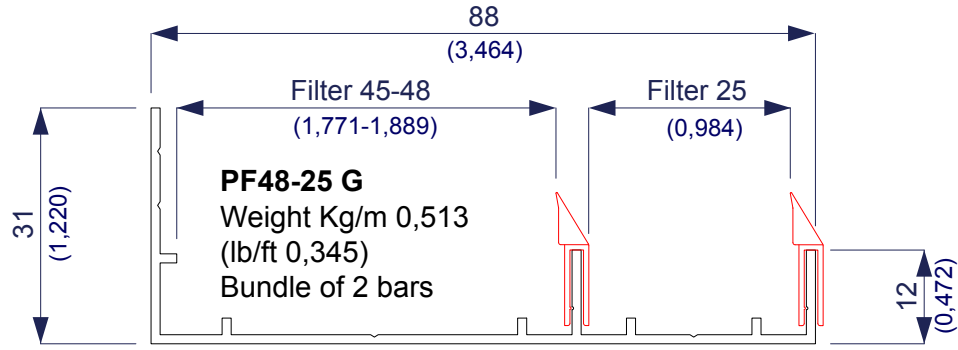


PF25 G-D

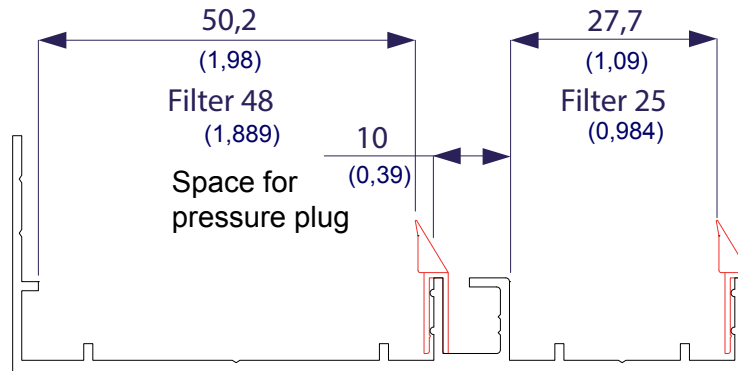
Weight Kg/m 0,404

(lb/ft 0,271)

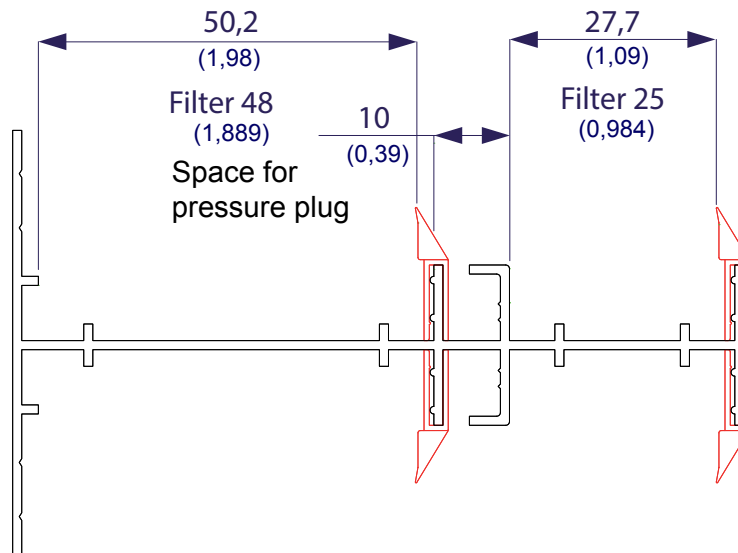
Bundle of 2 bars



PF48-25 G-910
Weight Kg/m 0,671
(lb/ft 0,451)
Bundle of 2 bars



PF48-25 GD-910
Weight Kg/m 0,92
(lb/ft 0,537)
Bundle of 2 bars



Pannelli in misure standard e finiti a misura.

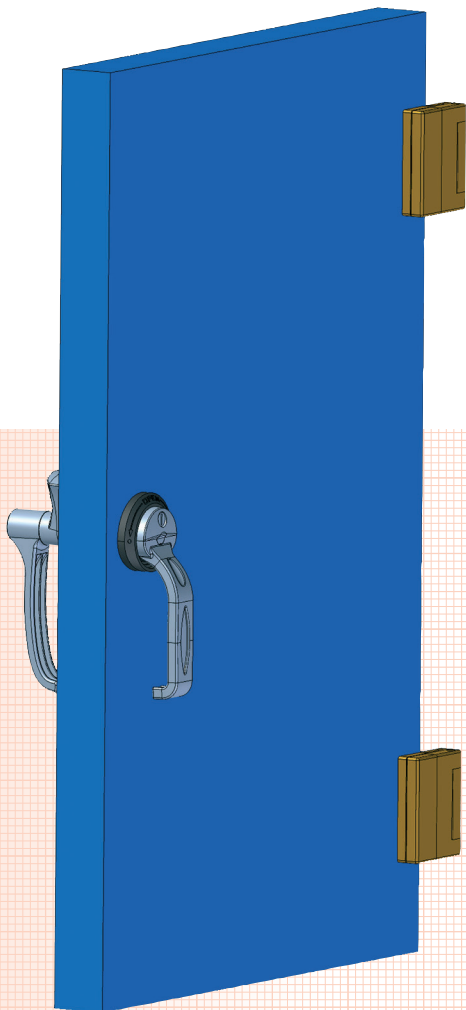
Standard size and pre-finished panels in aluminium and steel.

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

The available panels are:

PTM: They consist of two pre-painted silver aluminum sheets with a polystyrene core. The profile (P 191) is also available to cover the edge of the panel. These frame profiles must be cut to 45° in order to make them fit together.

The standard size is 1000x2000x25 mm.

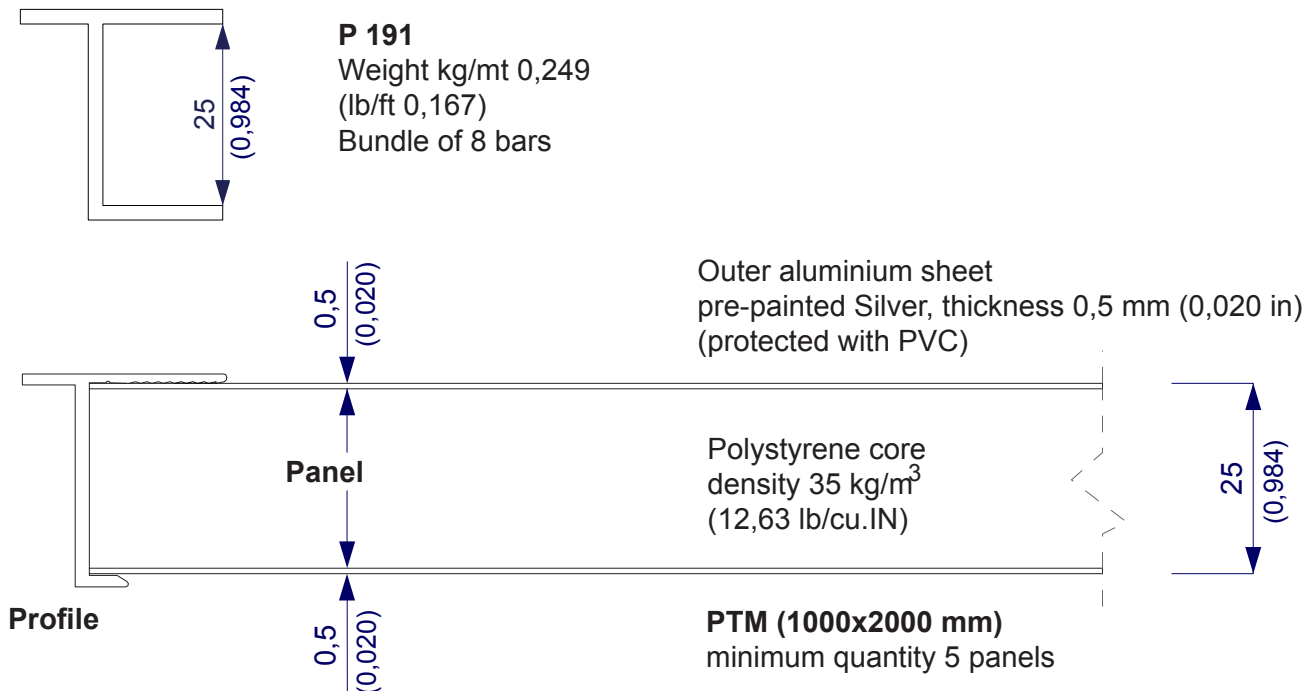
PANEL: We supply expanded polyurethane panels in standard size of 1250x3020 mm and of variable thickness. These panels are made of aluminium or galvanised steel sheet and come in different colours.

These panels can be supplied with a PVC profiles to cover the edge of the panel.

PANEL-B: We create custom-made finished panels using press-bent sheet metal and a core of expanded polyurethane or rock wool. These panels are manufactured with various types of sheet metal and come in a variety of colors.

Panels' certificates and technical characteristics are available on request.

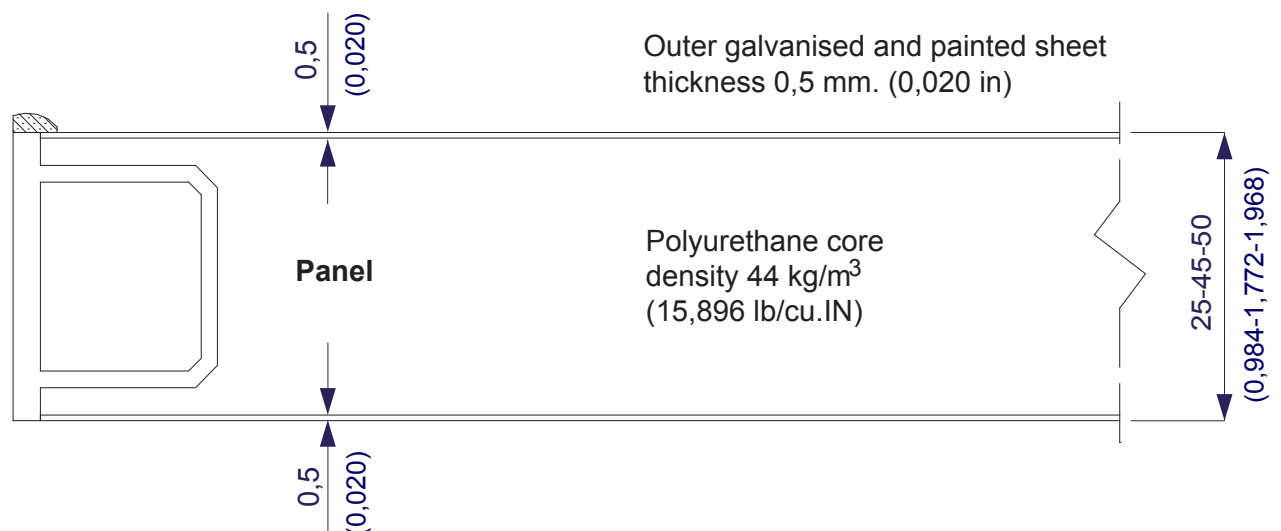
PTM : PANELS WITH POLYSTYRENE CORE AND ALUMINIUM COAT - SILVER COLOUR
DIM 1000x2000x25 mm - 39,37x78,74x0,984 inch



TECHNICAL SPECIFICATION:

Fire resistance:	flame retardant, homologated Class 1 ASTM 2962/68
Operating temperature range:	- 40° C + 85 ° C (9,7 F + 185,0 F)
Moisture resistance:	water absorption by capillarity: none
Noise level measured:	dB 72 ISO 717

PANEL : PANELS WITH POLYURETHANE CORE , GALVANISED AND PLASTIFIED COAT
DIM 1250x3020x 25,45,50 mm - 49,213x118,90x0,984/1,772/1,968 inch.



Profiles for edging panels

PVC PANEL 25

PVC PANEL 45

PVC PANEL 50

Minimum quantity: 10 bars - 62 mt

PANEL (0.5 Galvanized / polyurethane / 0.5 Painted)

Panel 25 (1250x3020 mm)

Panel 45 (1250x3020 mm)

Panel 50 (1250x4000 mm)

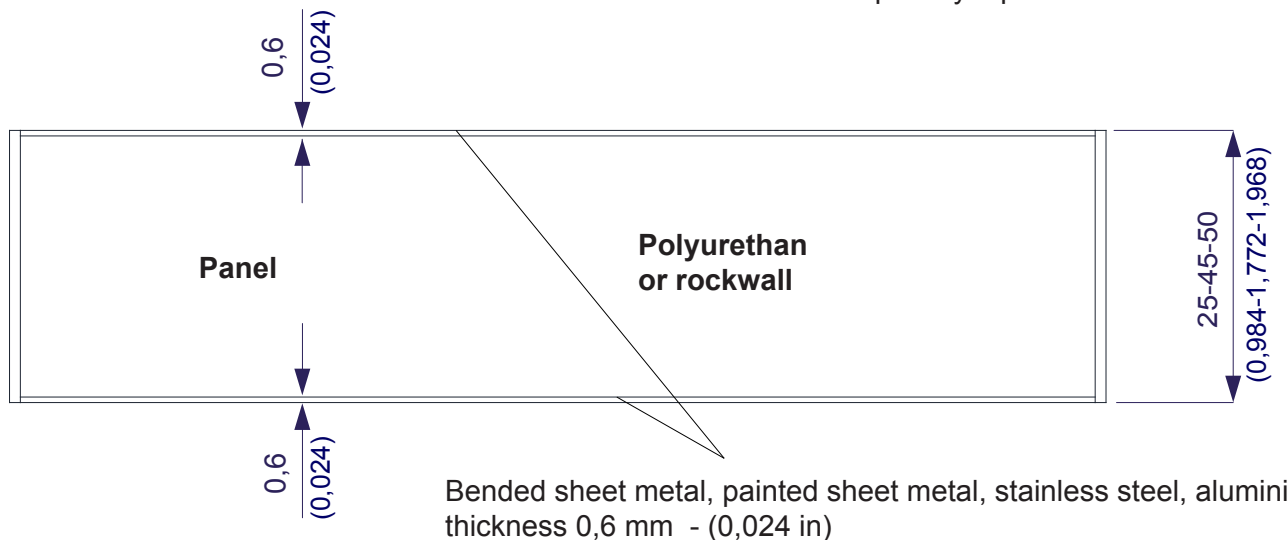
Minimum quantity 5 panels

**PANEL-B : CUSTOMIZED BENT PANELS WITH POLYUTRETHANE CORE,
GALVANISED AND PLASTIFIED COAT**

SINGLE BENT PANEL

PANEL-B

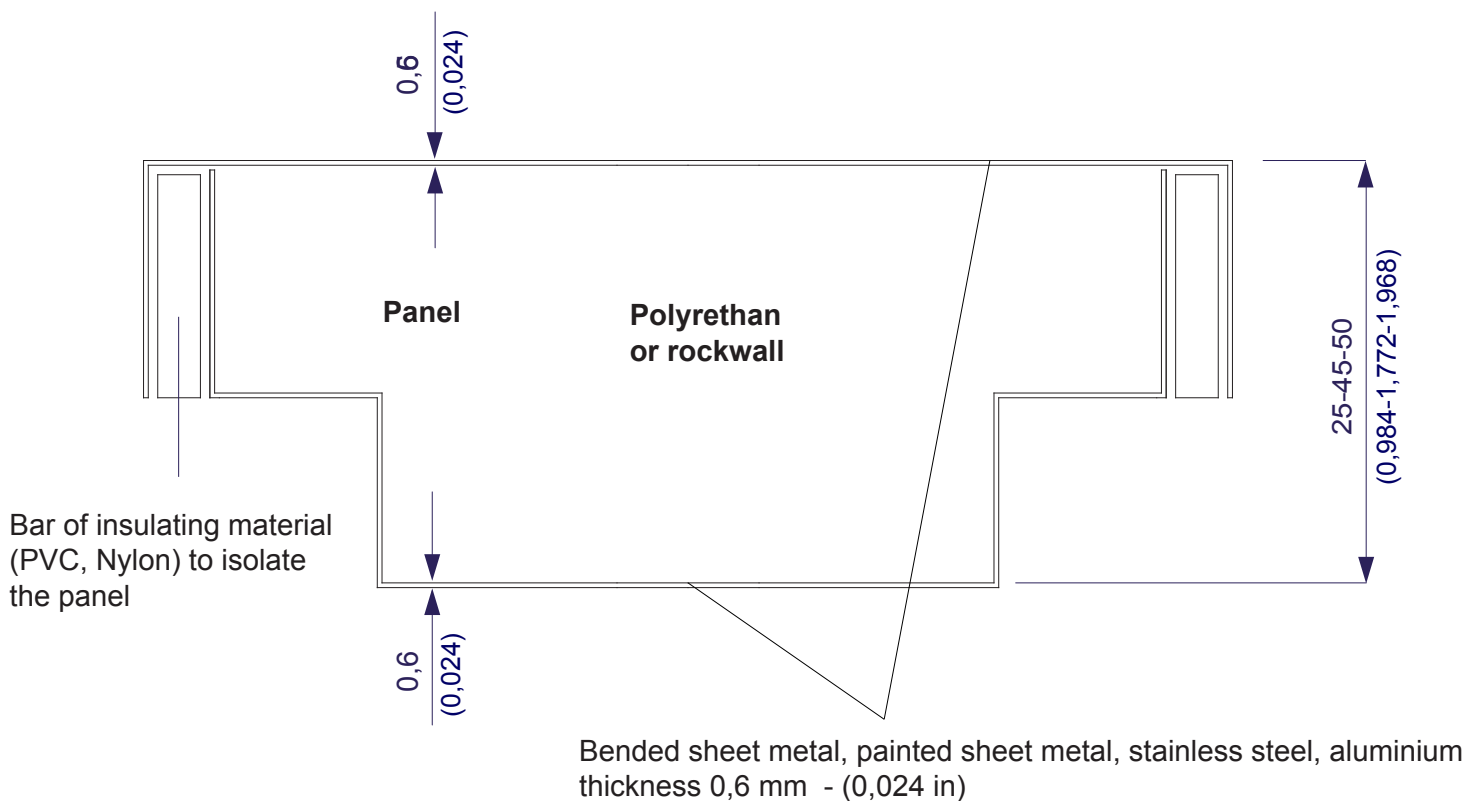
Minimum quantity 5 panels



DOUBLE BENT PANEL

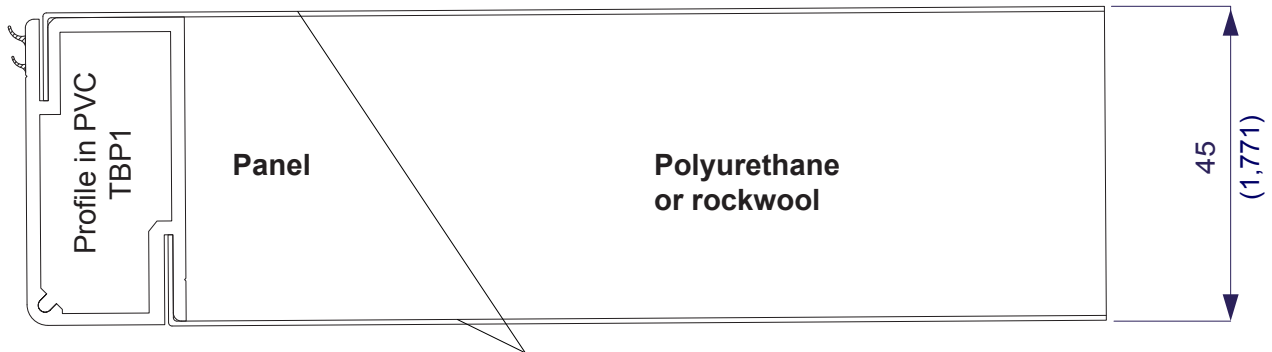
PANEL-B

Minimum quantity 5 panels



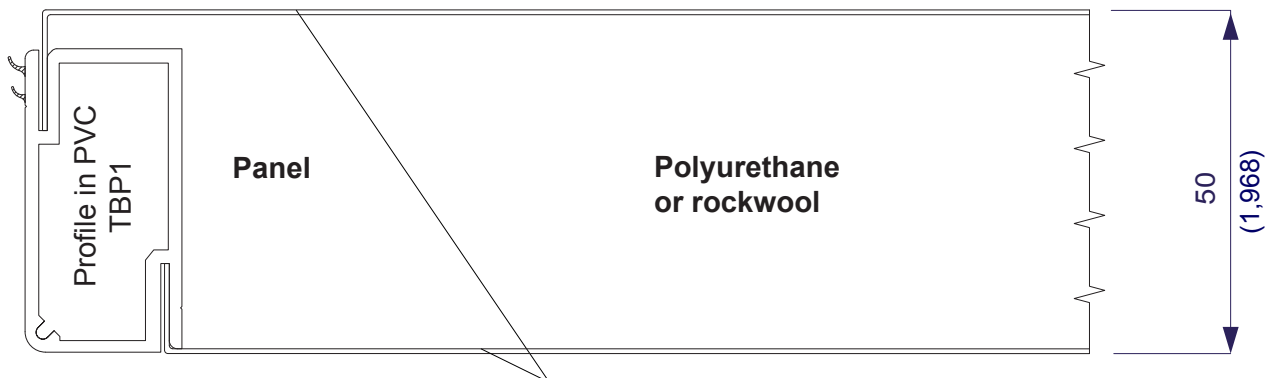
**PANEL-B : CUSTOMIZED BENT PANELS WITH POLYUTRETHANE CORE,
GALVANISED AND PLASTIFIED COAT**

SINGLE BENT PANEL
Thickness 45



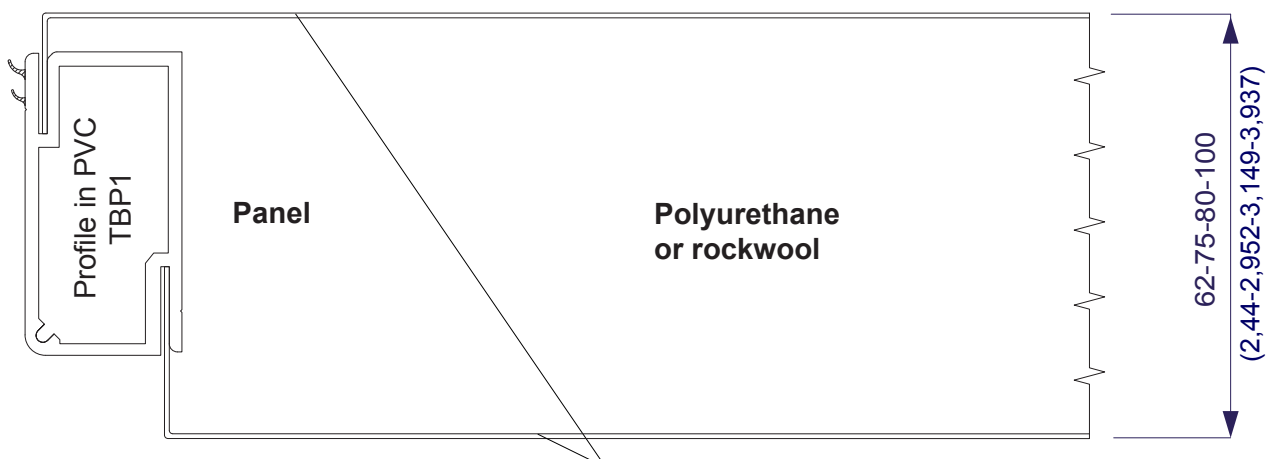
Bended sheet metal, painted sheet metal, stainless steel, aluminium
thickness 0,6 mm - (0,024 in)

SINGLE BENT PANEL
Thickness 50



Bended sheet metal, painted sheet metal, stainless steel, aluminium
thickness 0,6 mm - (0,024 in)

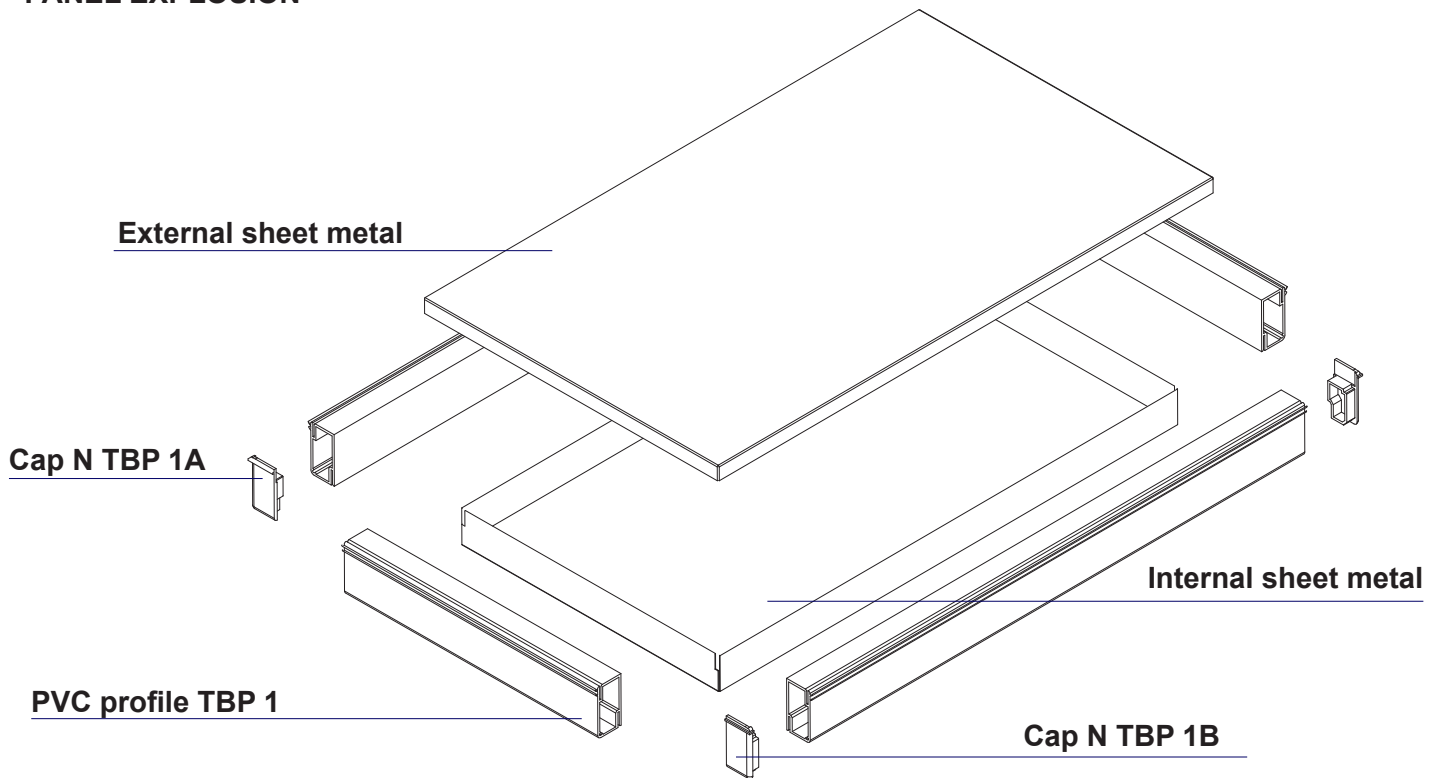
DOUBLE BENT PANEL
Thickness 62-75-80



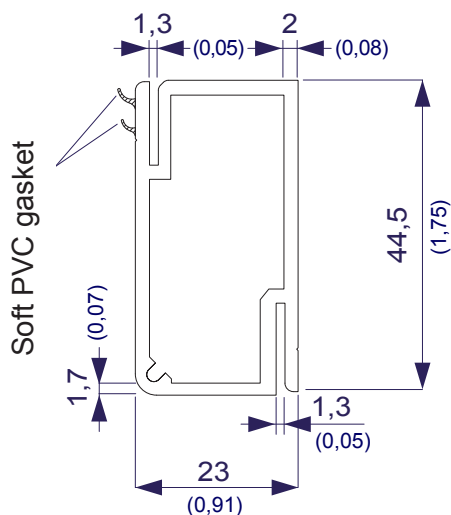
Bended sheet metal, painted sheet metal, stainless steel, aluminium
thickness 0,6 mm - (0,024 in)

Other options available

PANEL EXPLOSION



ACCESSORIES AND COMPONENTS



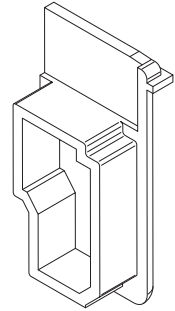
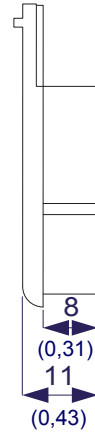
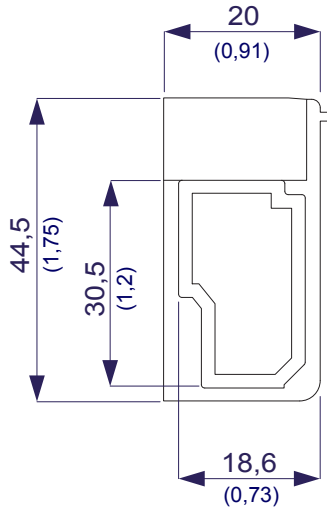
TBP 1
Bundle of 5 bars

TECHNICAL SPECIFICATION:

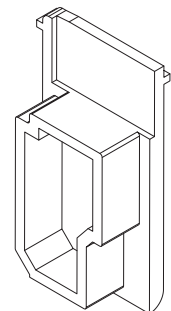
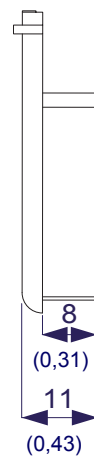
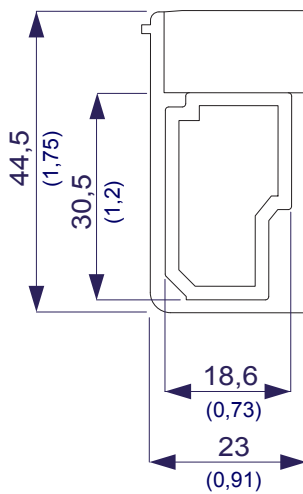
Fire resistance:	flame retardant, homologated Class 1 ASTM 2962/68
Operating temperature range:	- 40° C + 85 ° C (9,7 F + 185,0 F)
Moisture resistance:	water absorption by capillarity: none
Noise level measured:	dB 72 ISO 717

ACCESSORIES AND COMPONENTS

N TBP 1 A
Box of 100 pcs.

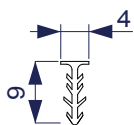


N TBP 1 B
Box of 100 pcs.

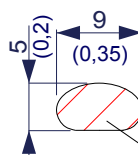


Gaskets

G0017
Box of 250 mt.

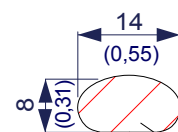


G0020
Box of 250 mt.



Adhesive
area

G0021
Box of 250 mt.



Adhesive
area

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.

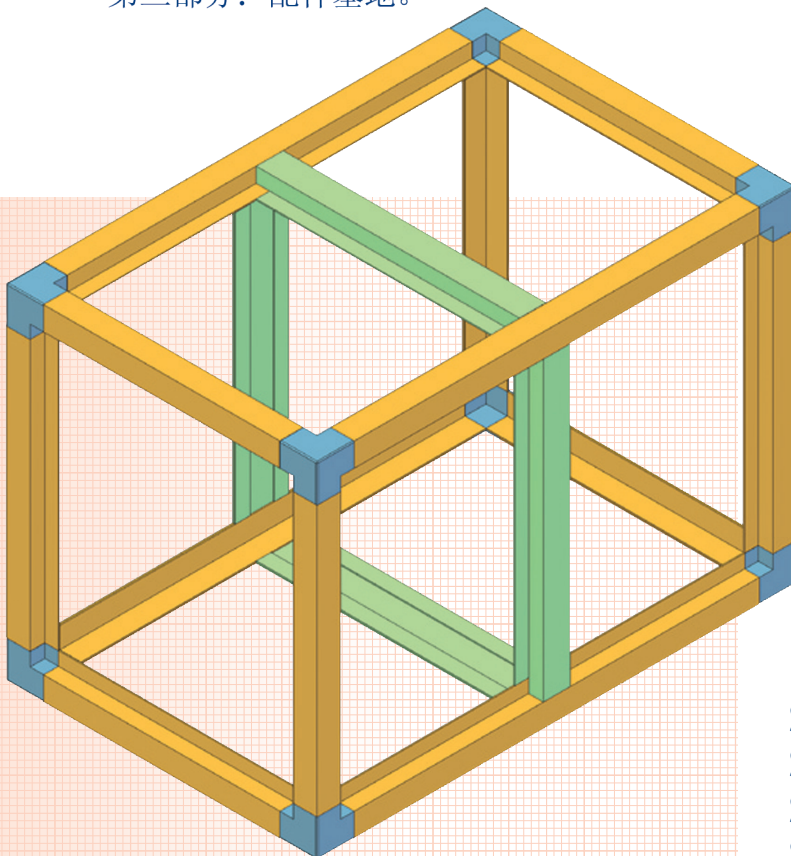
Sistema modular compuesto por perfiles de aluminio y accesorios para el montaje de las estructuras, sistema de burlete para paneles.

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。



Sezione
Section
Section
Sección
Teil
第04号

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.

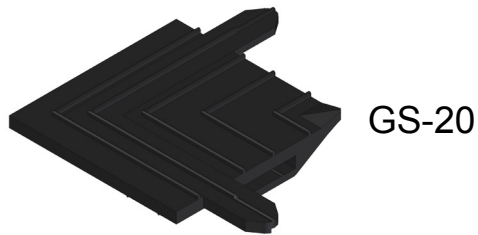
PART 3: BASE ACCESSORIES

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:

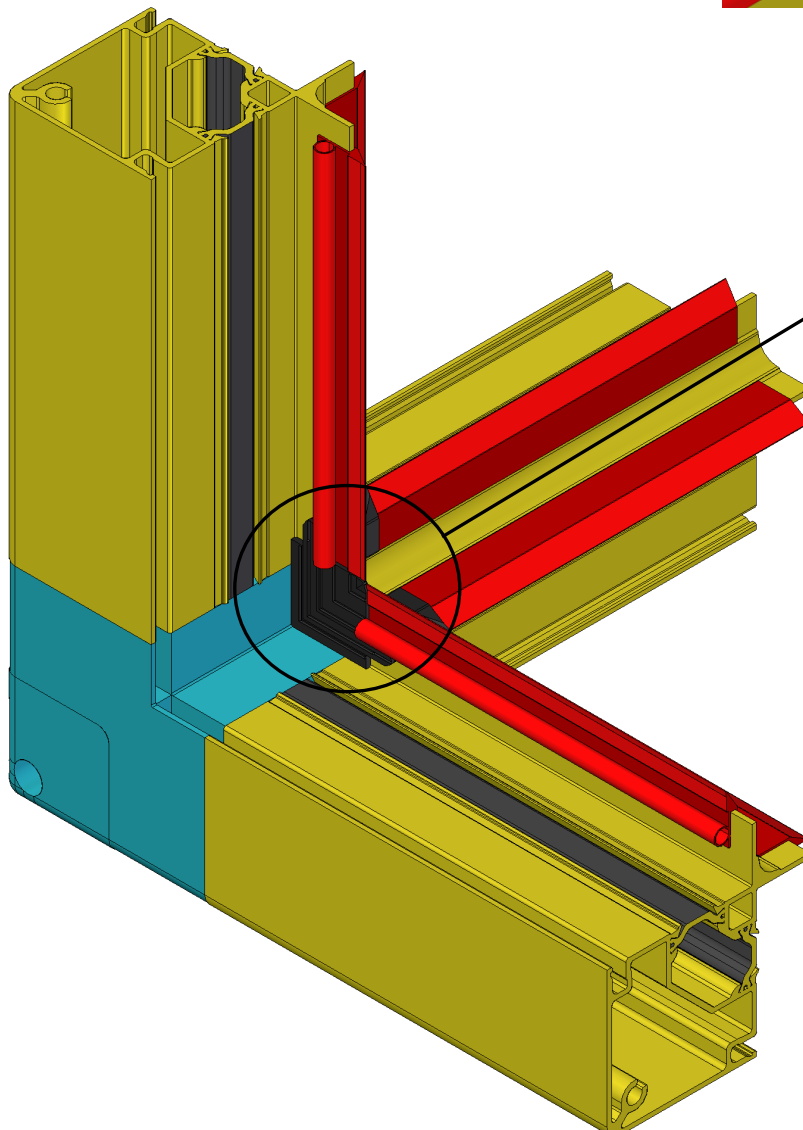
- Hermetic seal between aluminium profiles and corners.
- Airtight system seal guaranteed on the whole edge surface between panel and frame.
- Smooth surface between profiles /corners and panel for sanitisable AHU.
- Quick and easy installation.
- EPDM gasket with high elastic properties.
- Universal 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.



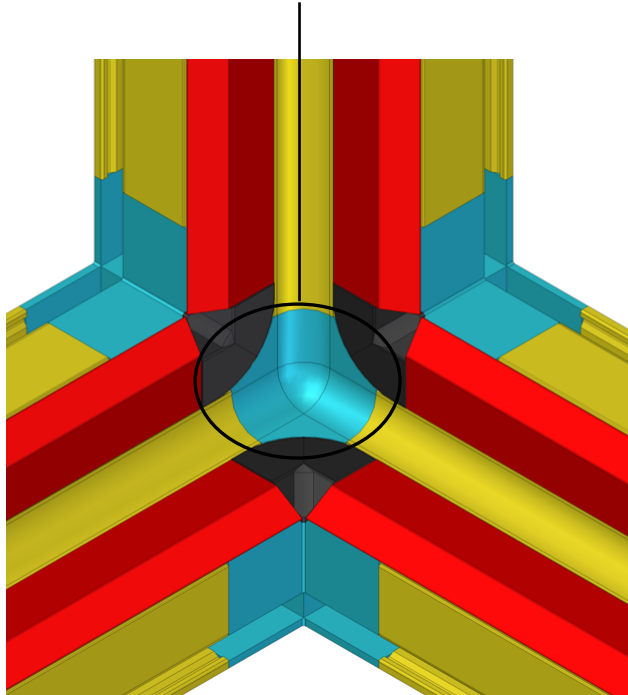
The angular gasket GS-20 is mounted on the corners of the structure to close and seal hermetically the passage of air between profiles and nylon or aluminium corners.

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.

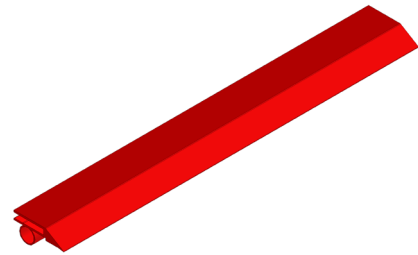
These two elements are practical and fast to assemble: they create a smooth and radius surface between the frame and the panel, so the AHU meets hygiene standard requirements.

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.

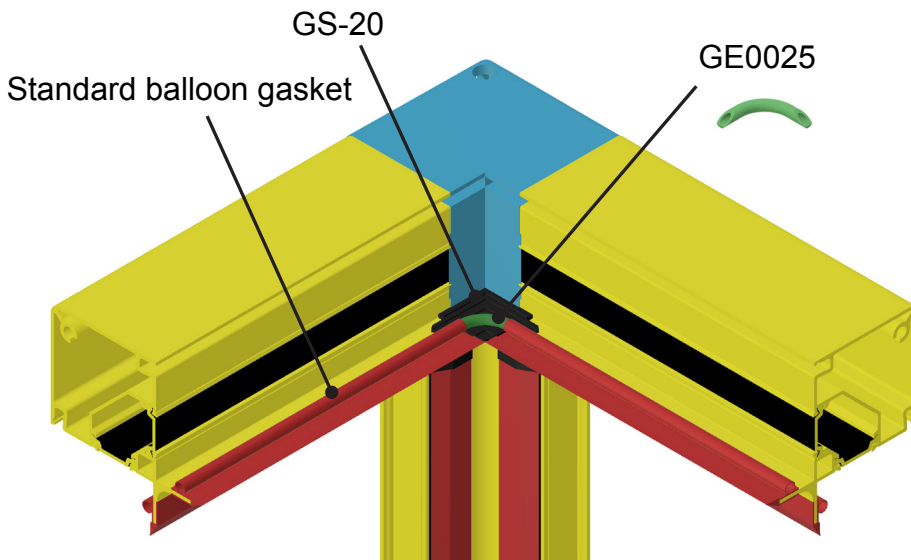
The GS-20 and G002 gaskets together create smooth and radius areas inside the unit, so the AHU meets the hygiene standard requirements.



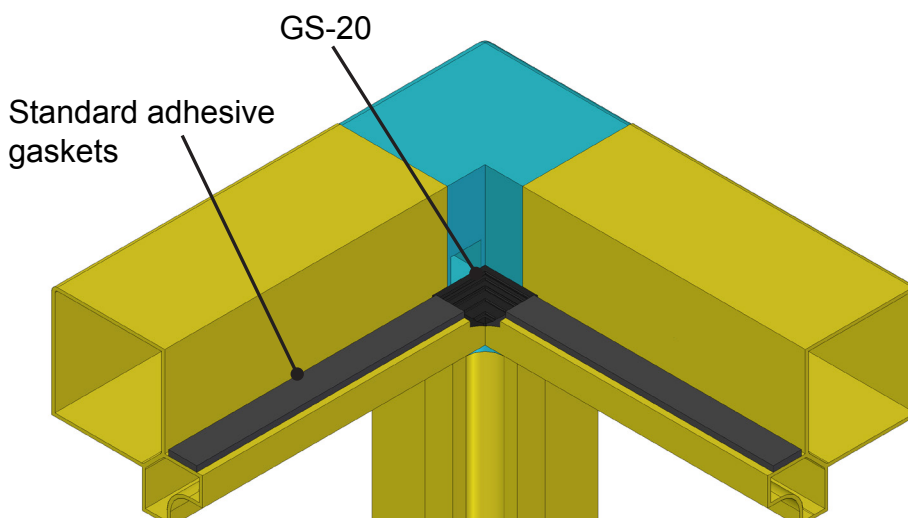
GS-20



G002

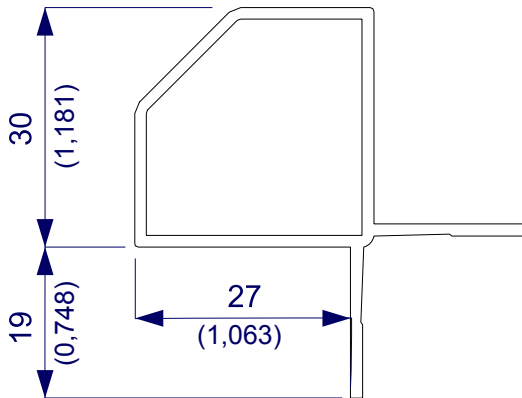


Application of angular gasket GS-20 together with standard balloon gasket

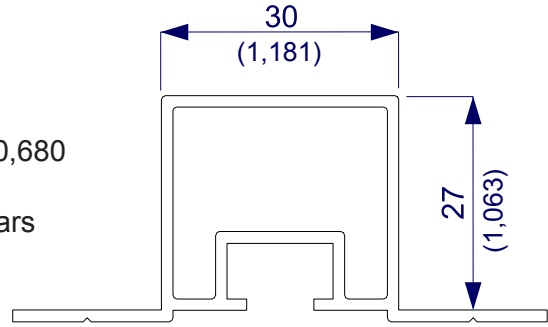


Application of angular gasket GS-20 together with standard adhesive gaskets.

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

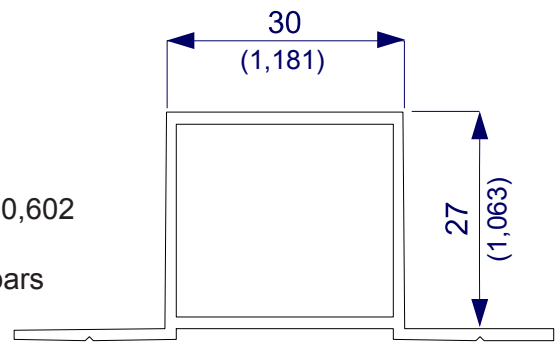


P 231-25
Weight kg/m 0,680
(lb/ft 0,457)
Bundle of 6 bars


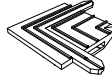


P 232-25
Weight kg/m 0,602
(lb/ft 0,404)
Bundle of 6 bars

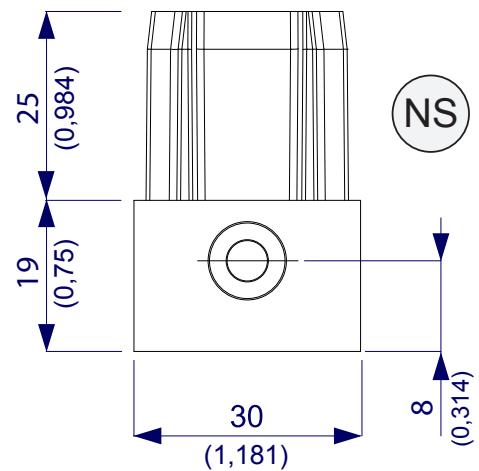
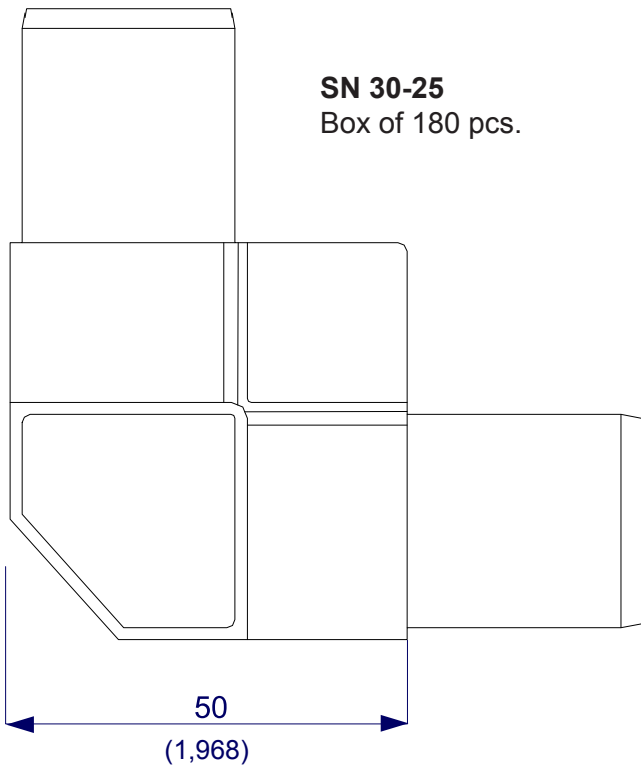
S 1300-25
Weight kg/m 0,586
(lb/ft 0,394)
Bundle of 4 bars



GASKET

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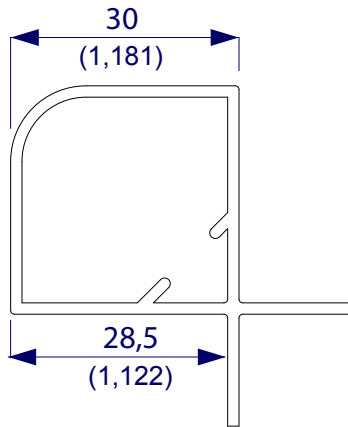
SN 30-25
Box of 180 pcs.



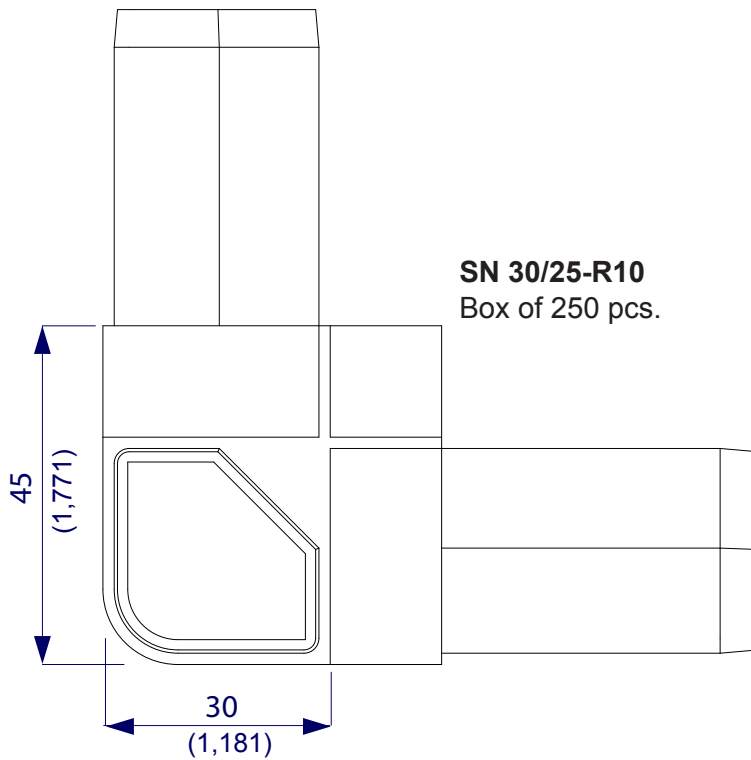
N 30 JP
Box of 400 pcs.


Plugs to cover the holes

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

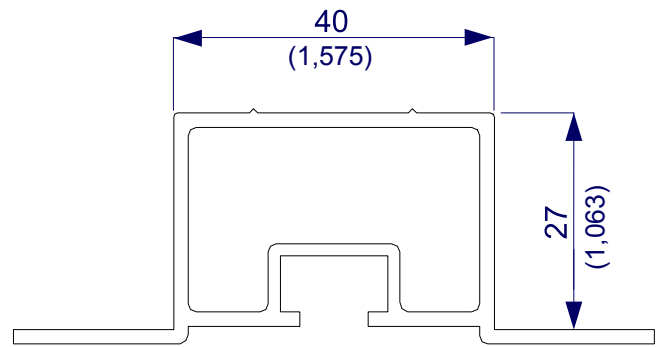
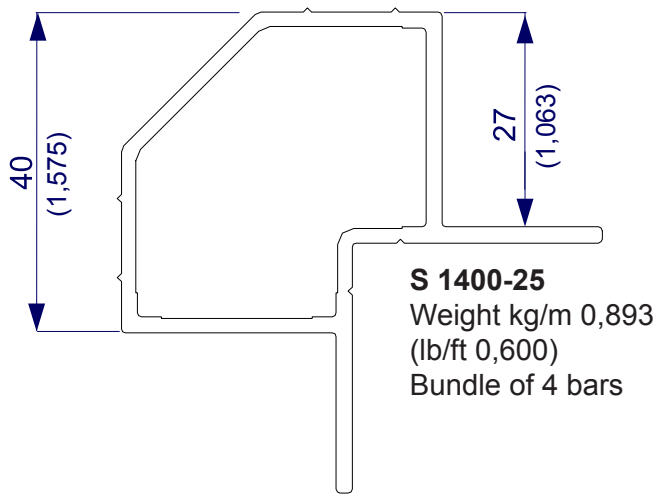


S 1300/25-R10
Weight kg/m 0,606
(lb/ft 0,407)
Bundle of 4 bars



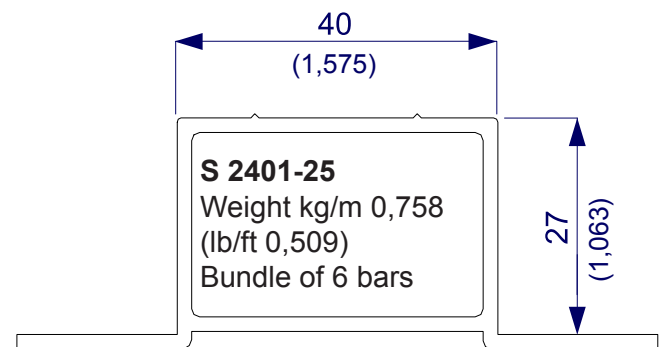
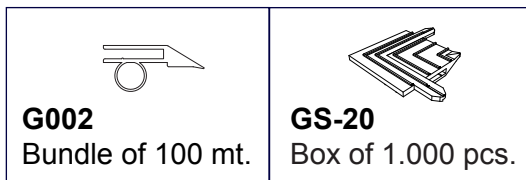
SN 30/25-R10
Box of 250 pcs.

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

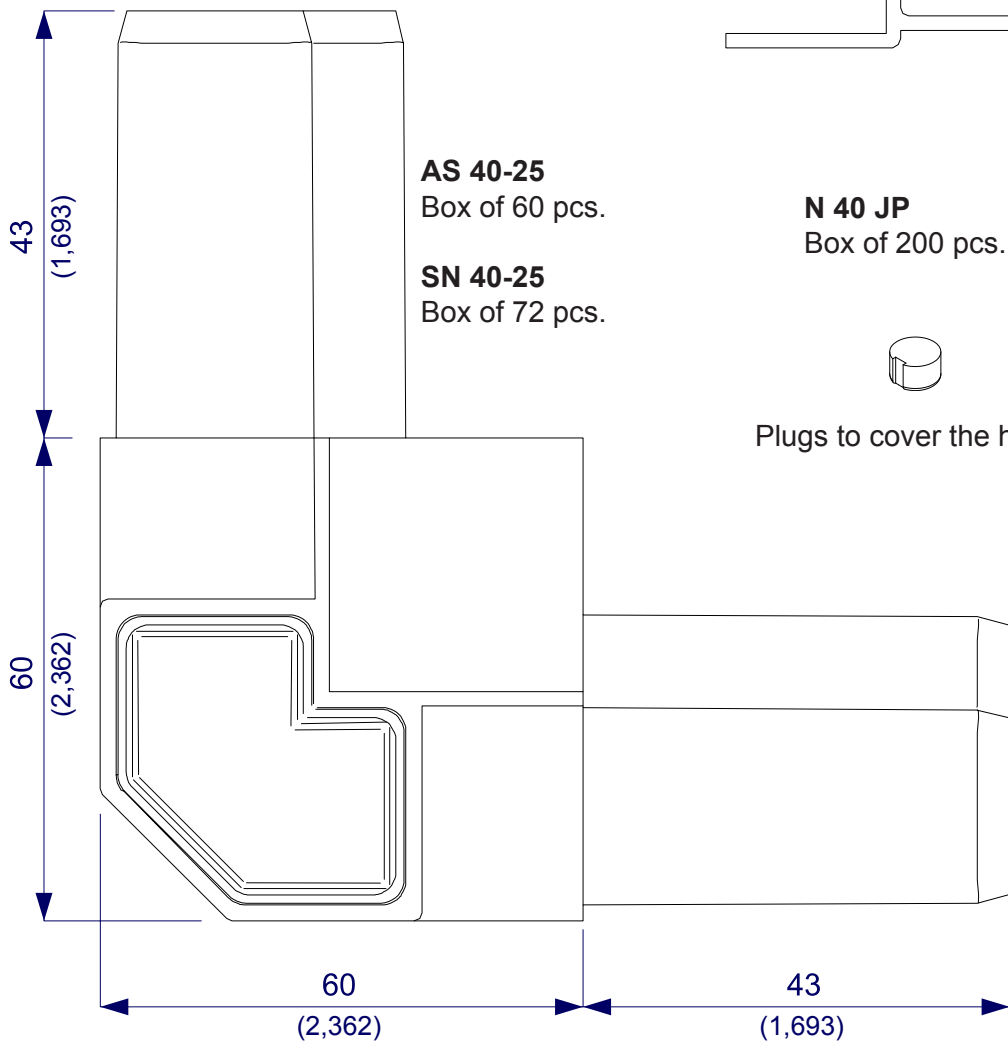


S 2400-25
Weight kg/m 0,870
(lb/ft 0,585)
Bundle of 6 bars

GASKET

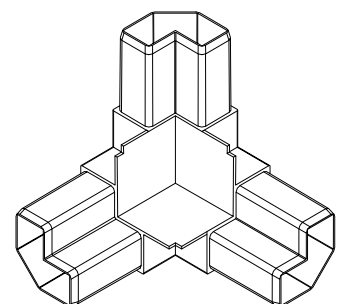
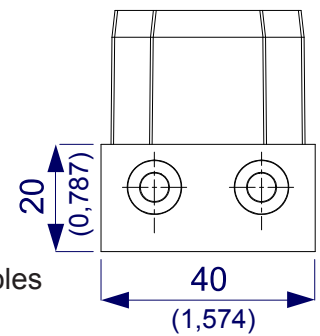


S 2401-25
Weight kg/m 0,758
(lb/ft 0,509)
Bundle of 6 bars



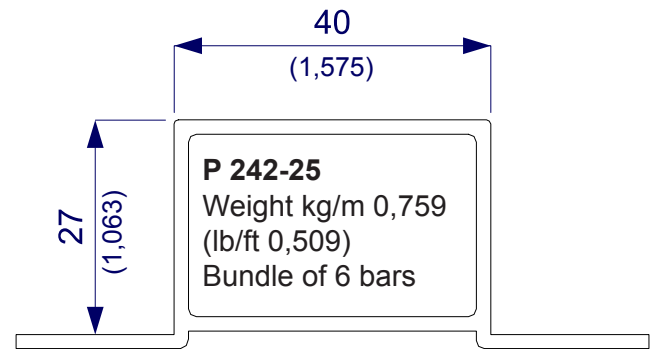
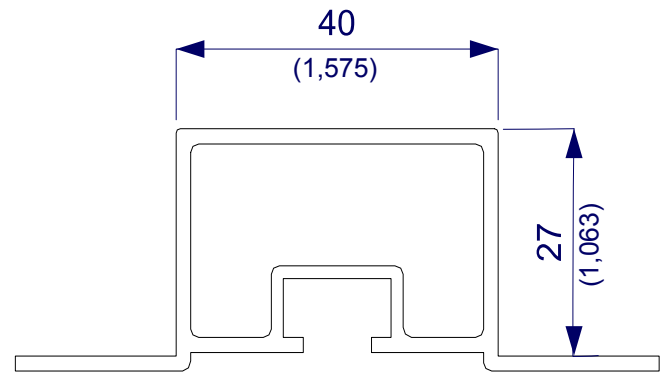
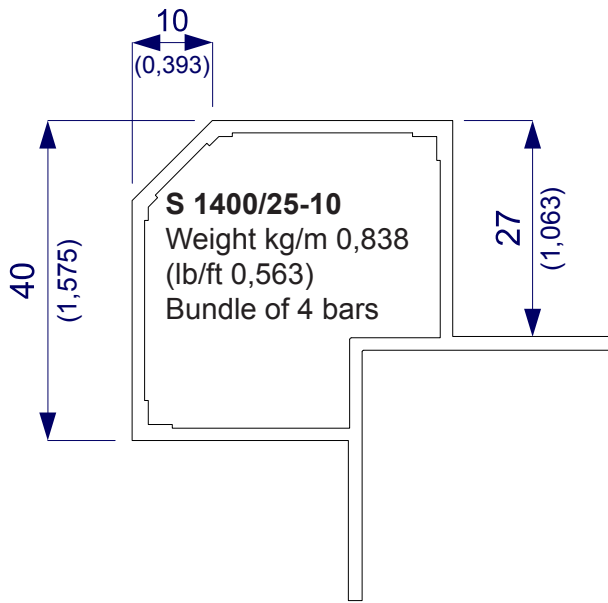
N 40 JP
Box of 200 pcs.

Plugs to cover the holes

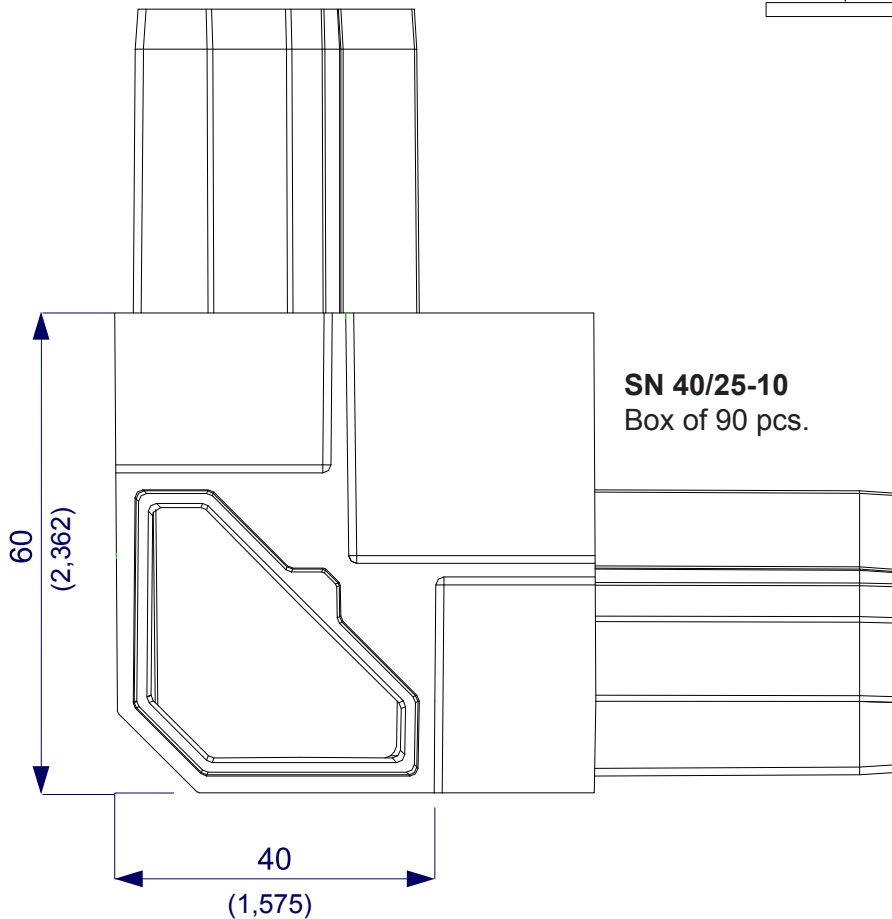
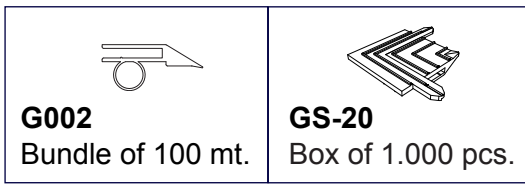


NS

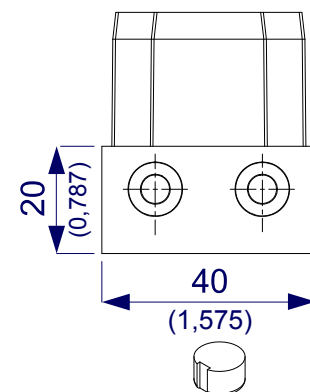
Part 1: Blunted profiles (section 40 panel 25 mm; nylon corner)



GASKET



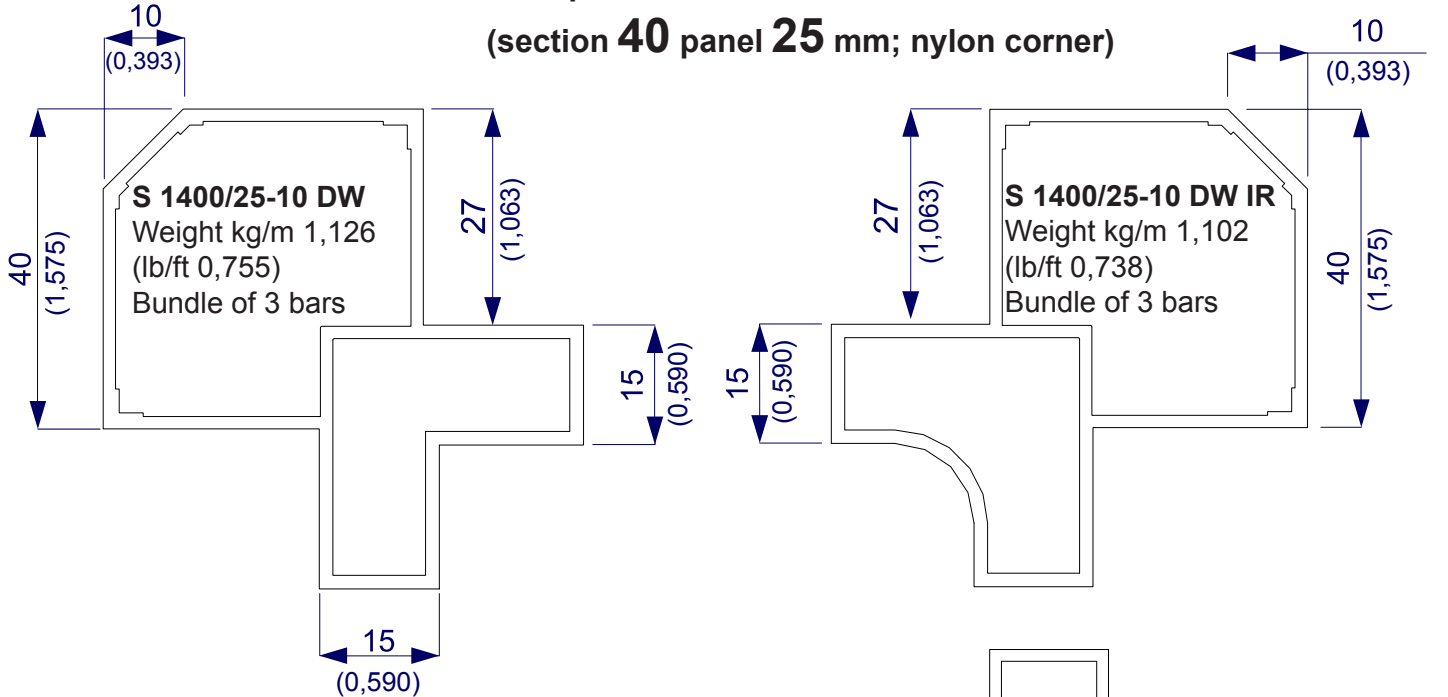
N 40 JP
Box of 200 pcs.



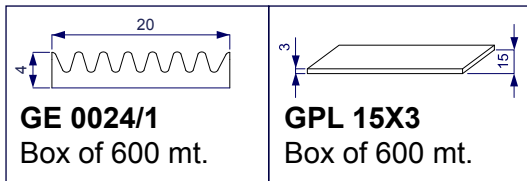
Plugs to cover the holes

Part 1: Blunted profiles double wall to hide the screws

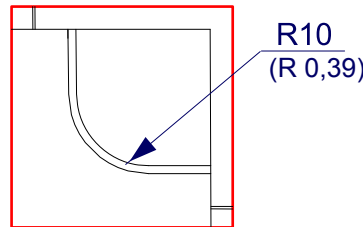
(section 40 panel 25 mm; nylon corner)



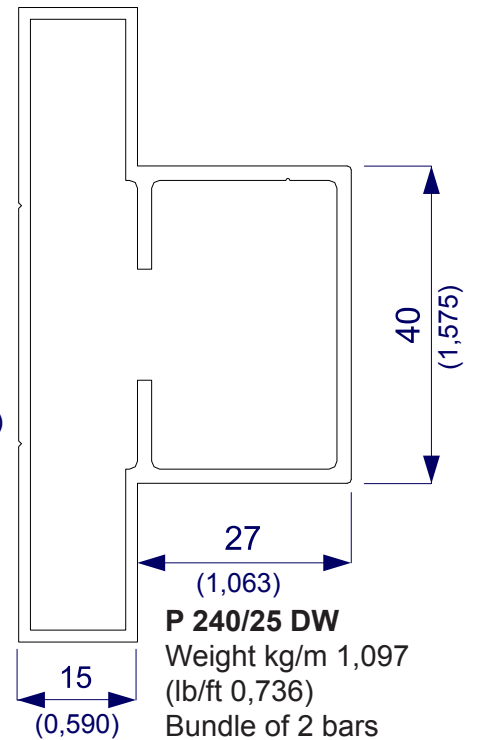
GASKETS



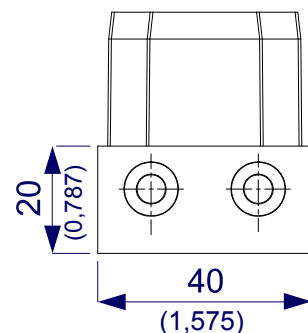
SN 40/25-10 DW IR
Box of 76 pcs.



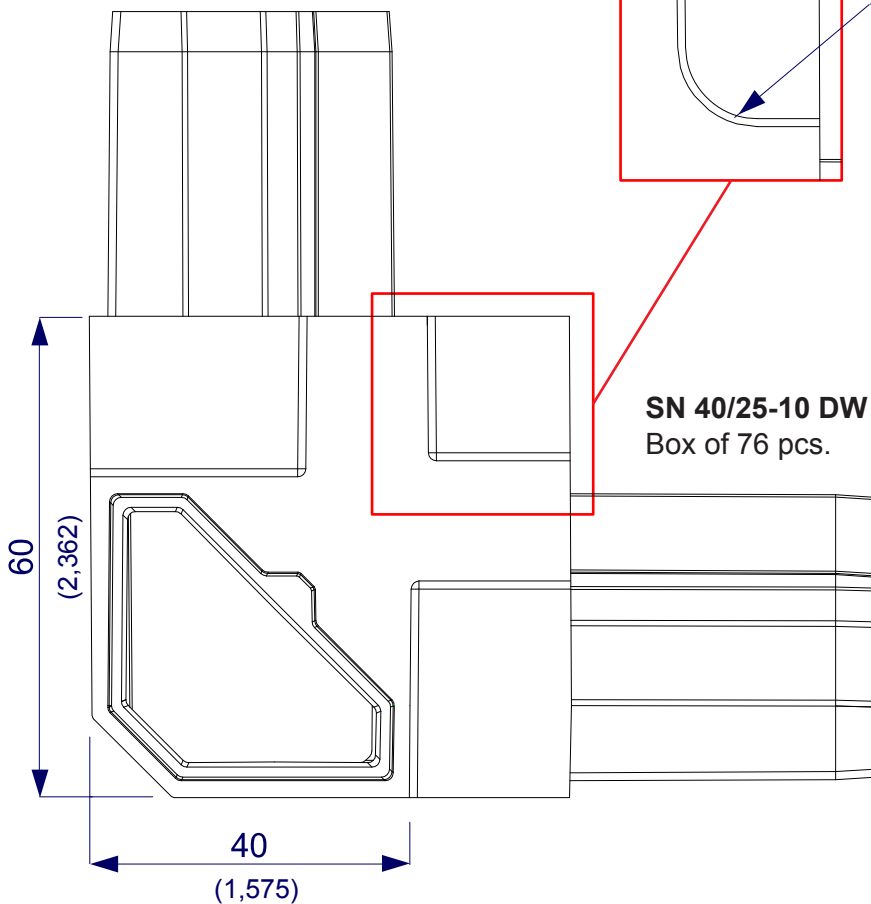
SN 40/25-10 DW
Box of 76 pcs.



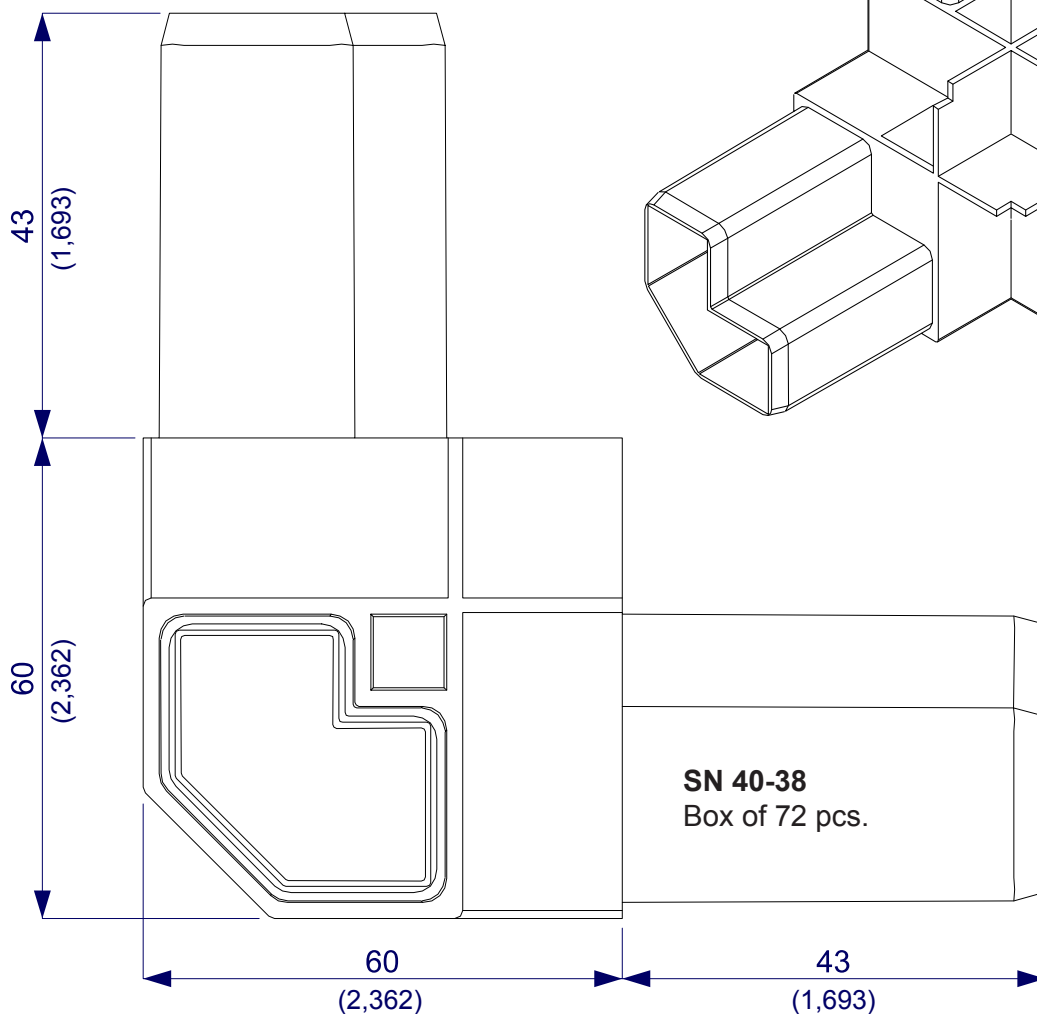
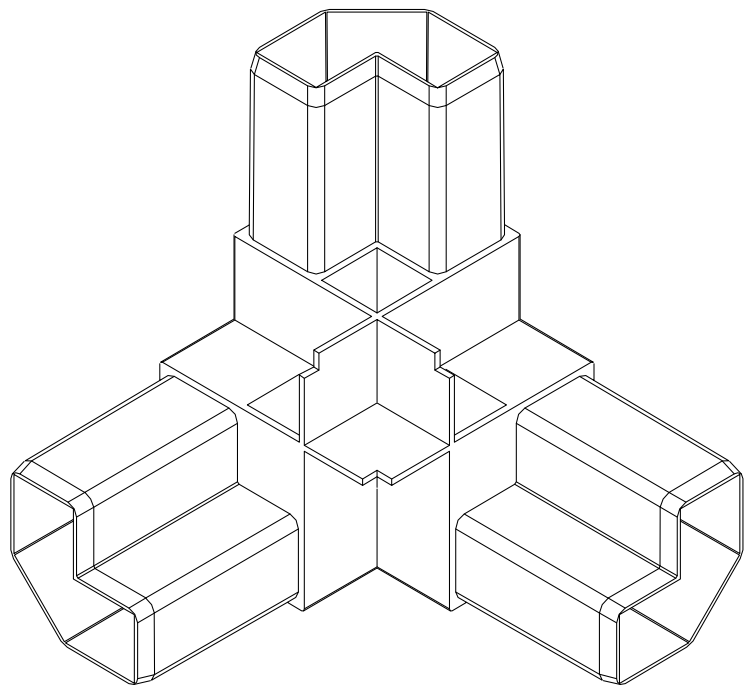
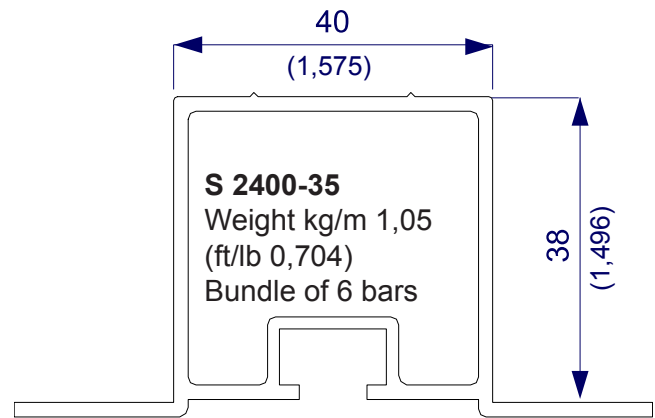
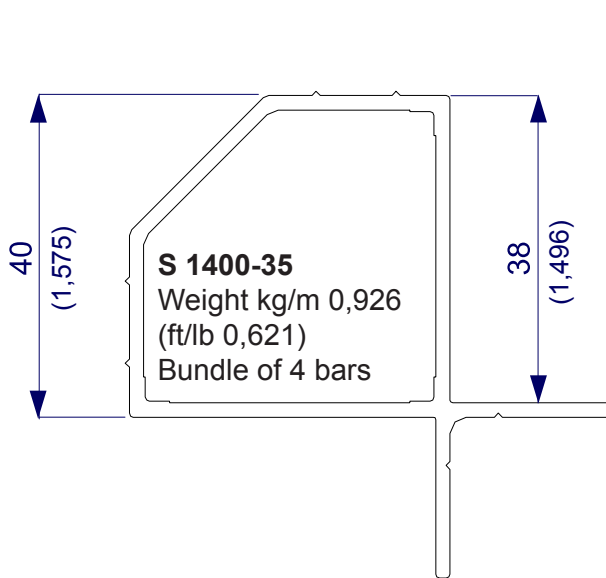
N 40 JP
Box of 200 pcs.



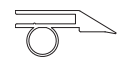
Plugs to cover the holes



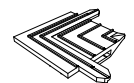
Part 1: Blunted profiles (section 40 panel 35 mm; nylon corner)



GASKET

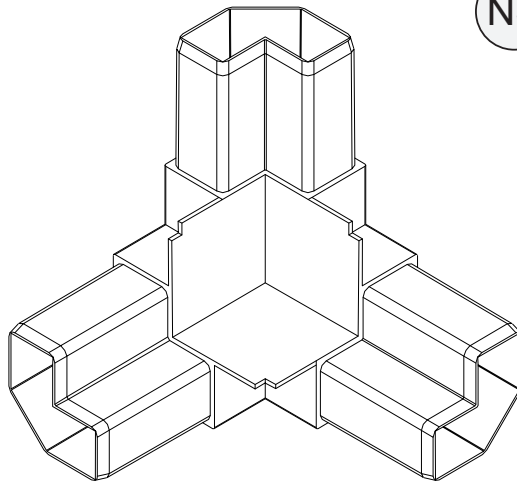
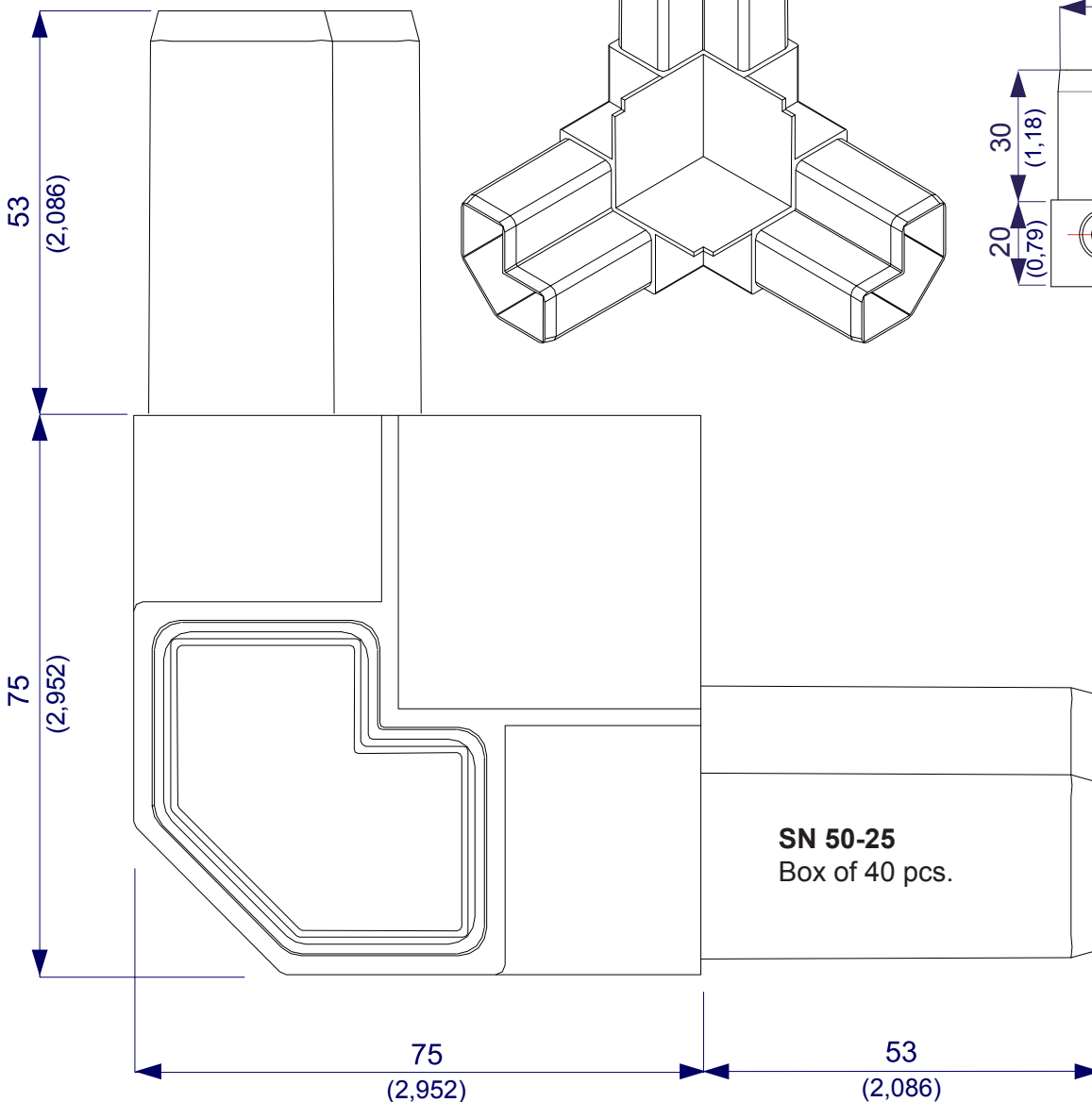
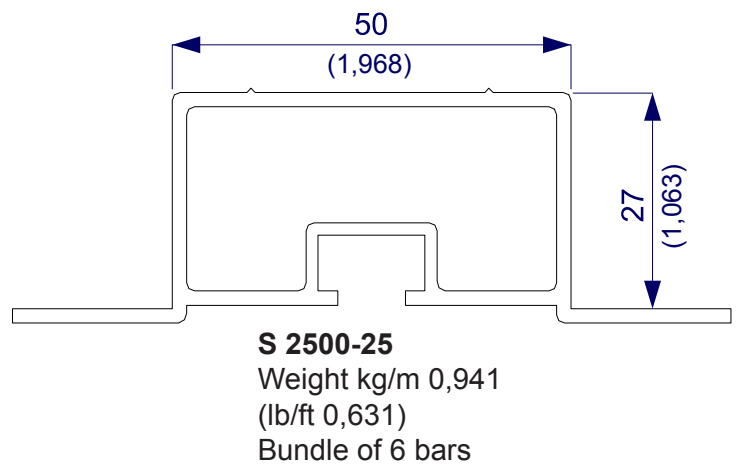
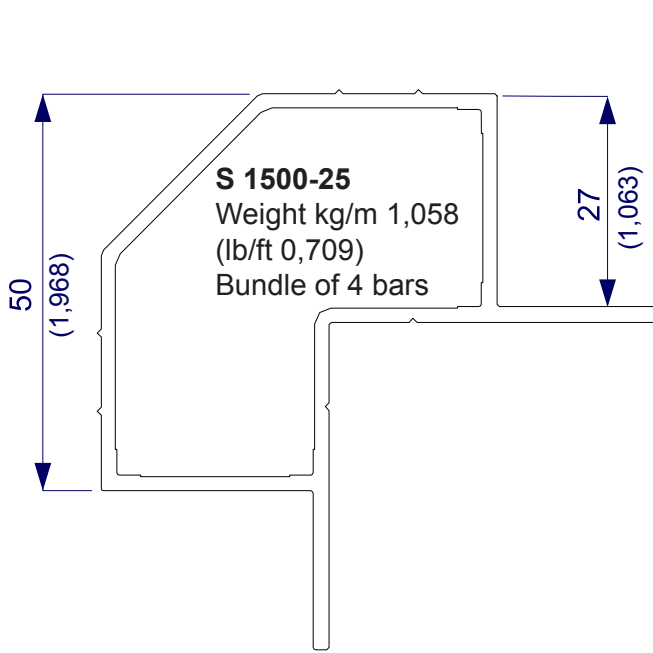


G002
Bundle of 100 mt.



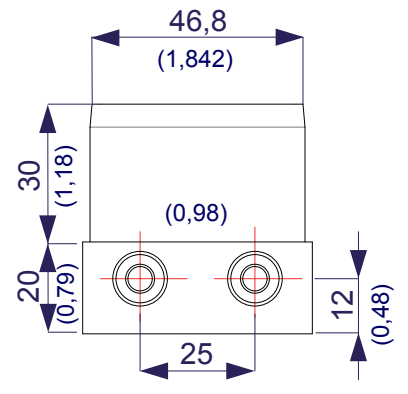
GS-20
Box of 1.000 pcs.

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



NS

N 50-25 JP
Box of 100 pcs.

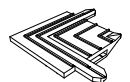


NS

GASKET

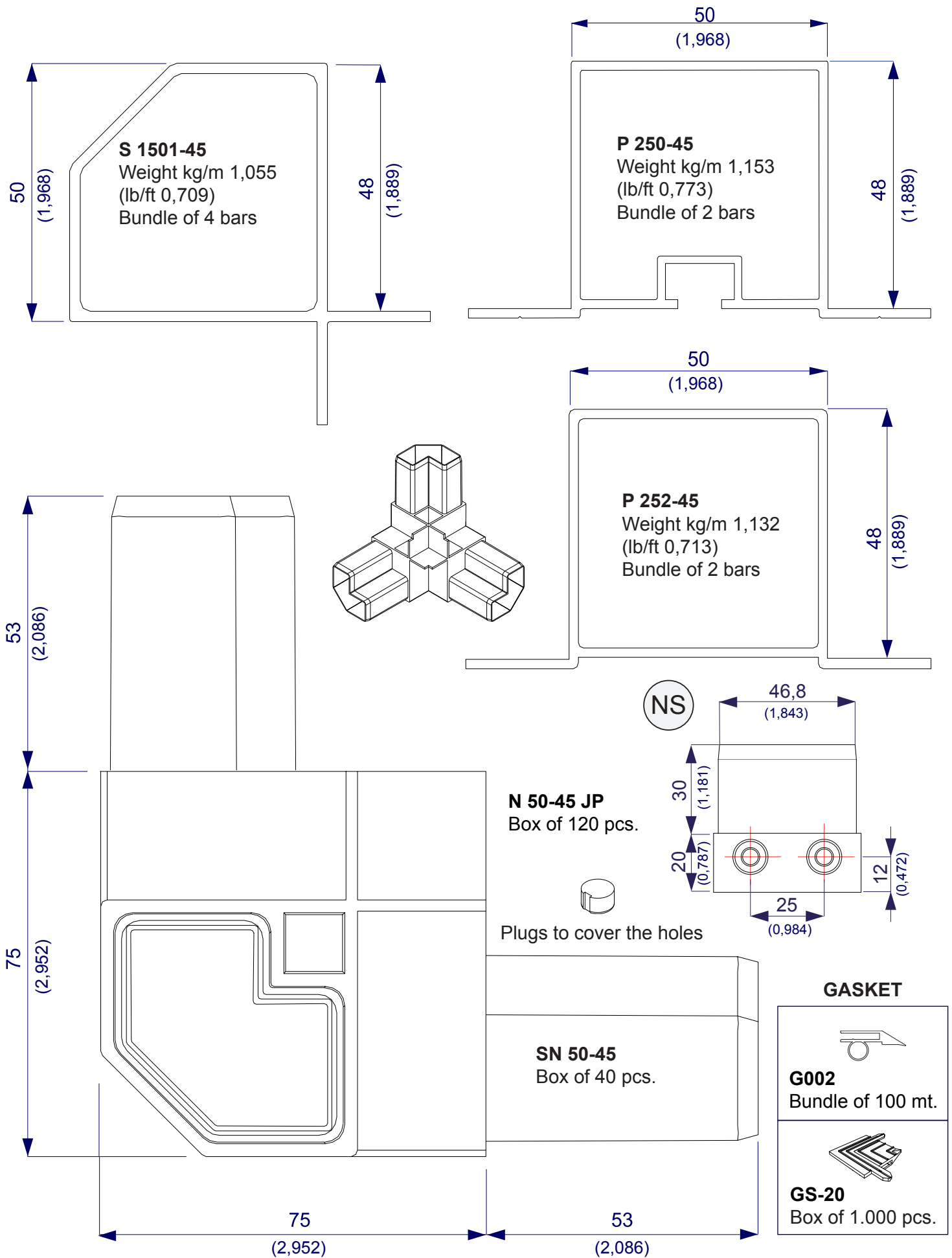


G002
Bundle of 100 mt.

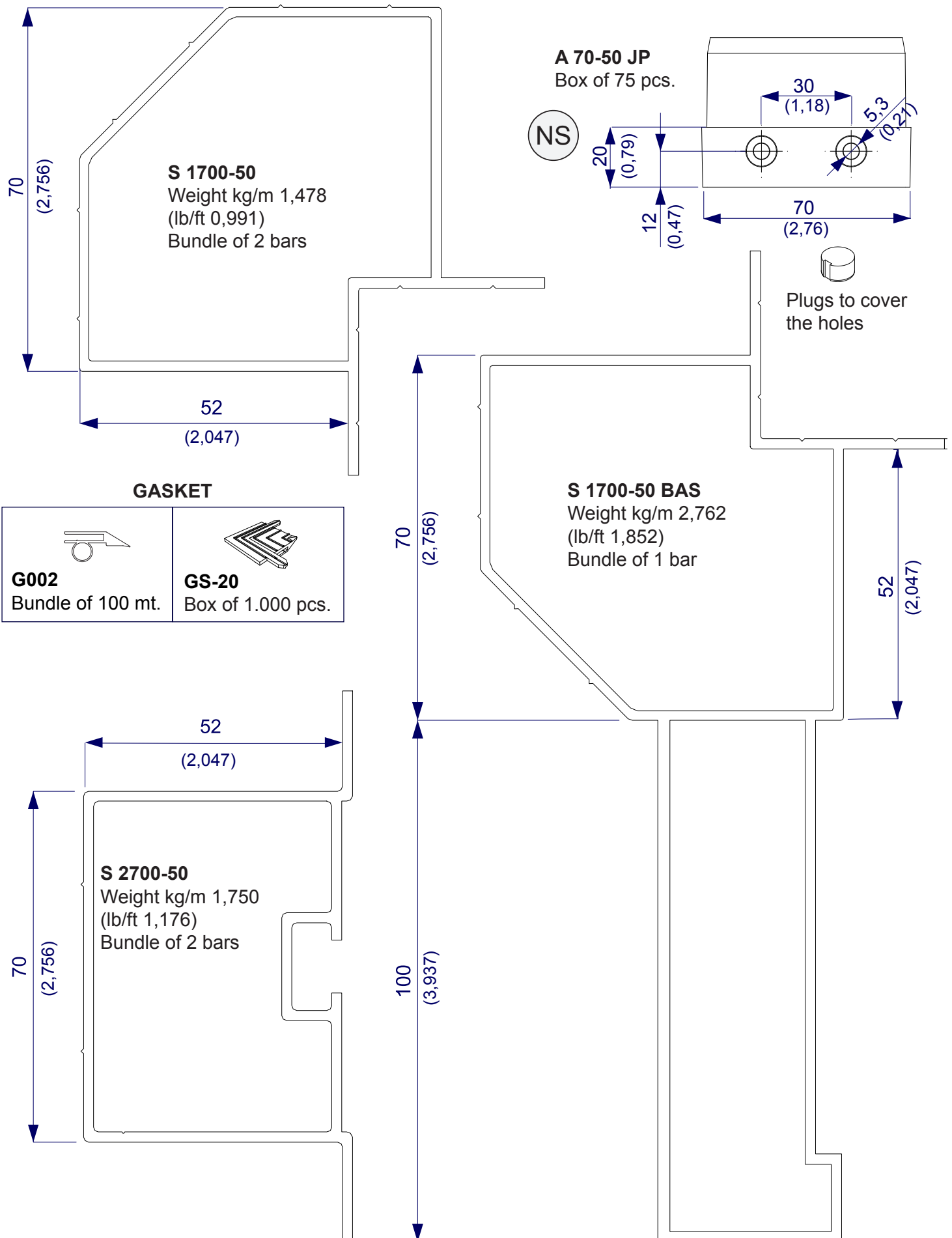


GS-20
Box of 1.000 pcs.

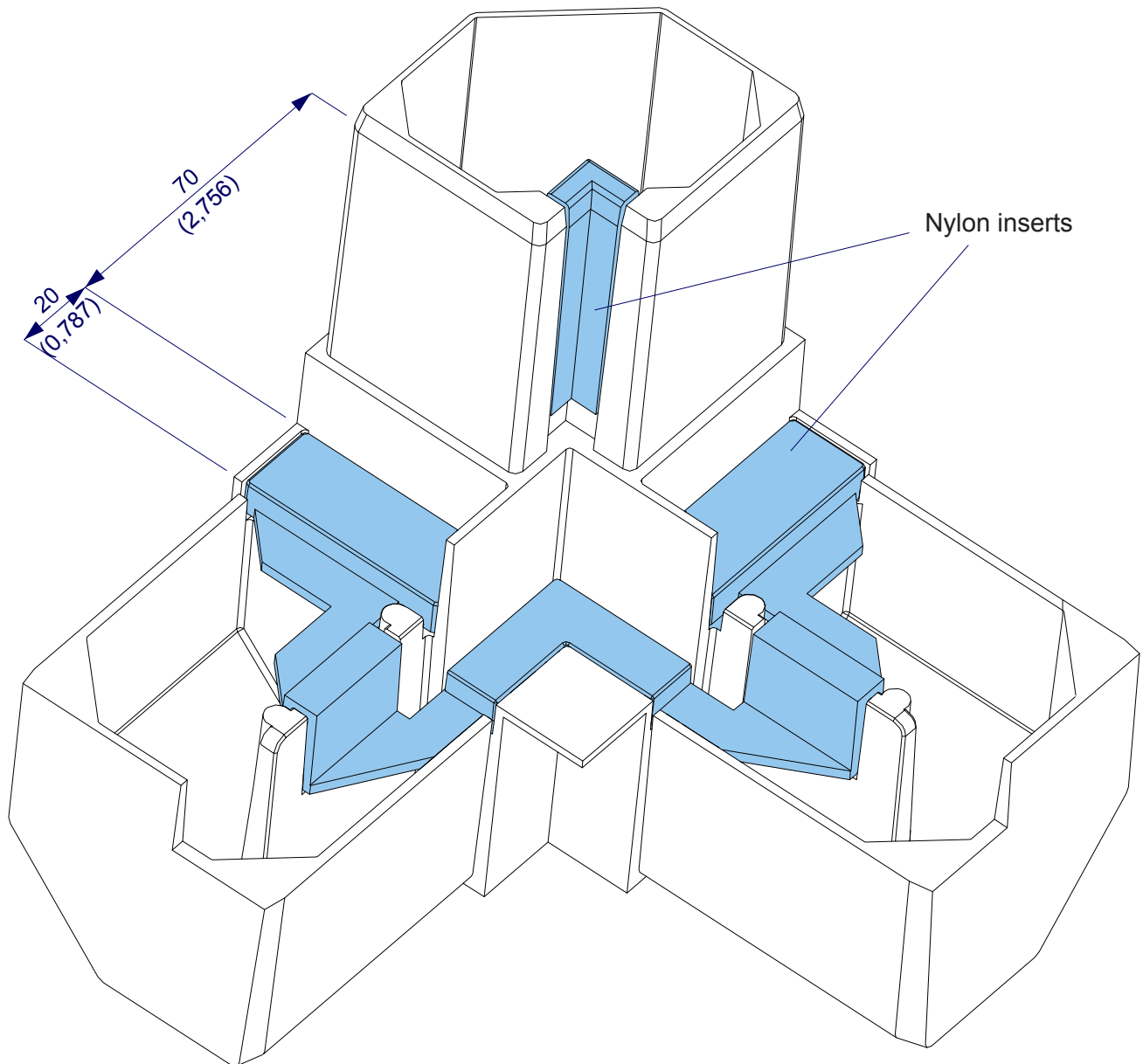
Part 1: Blunted profiles (section 50 panel 45 mm; nylon corner)



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

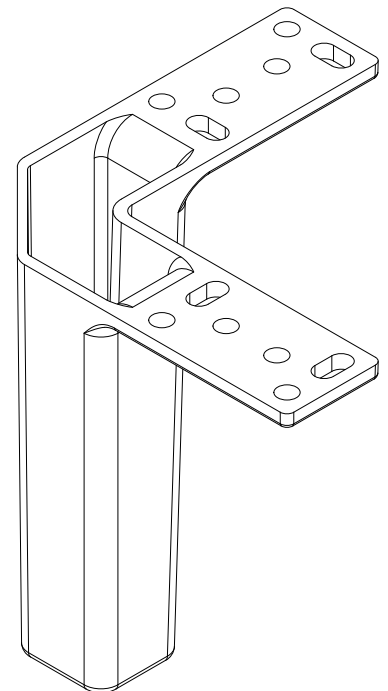
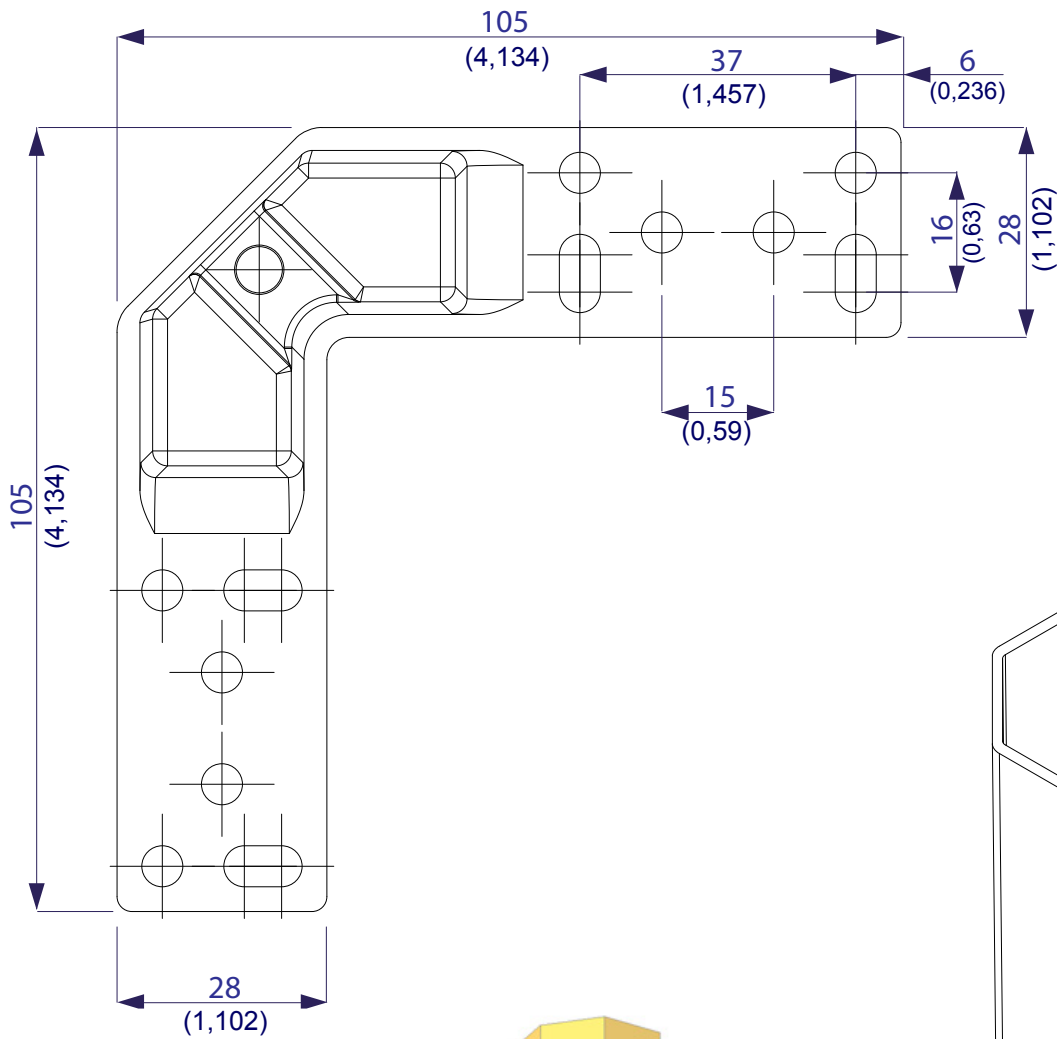


Part 1: 3D view of blunted aluminium corner (section 70 panel 50 mm)

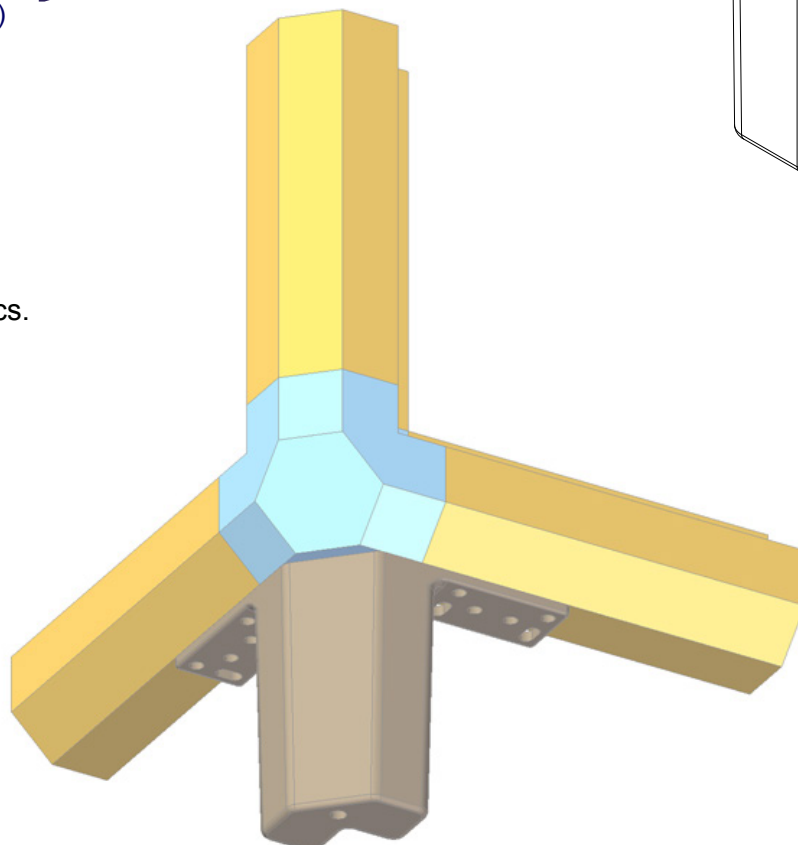


AS 70-50
Box of 16 pcs.

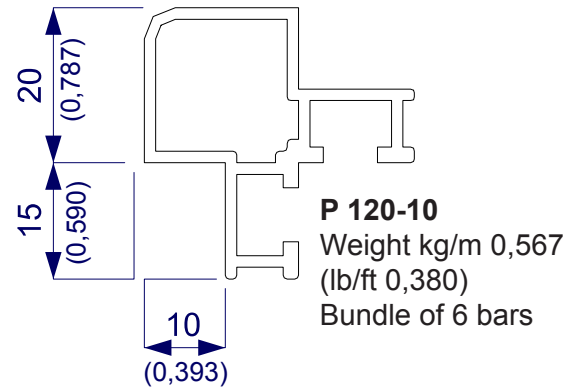
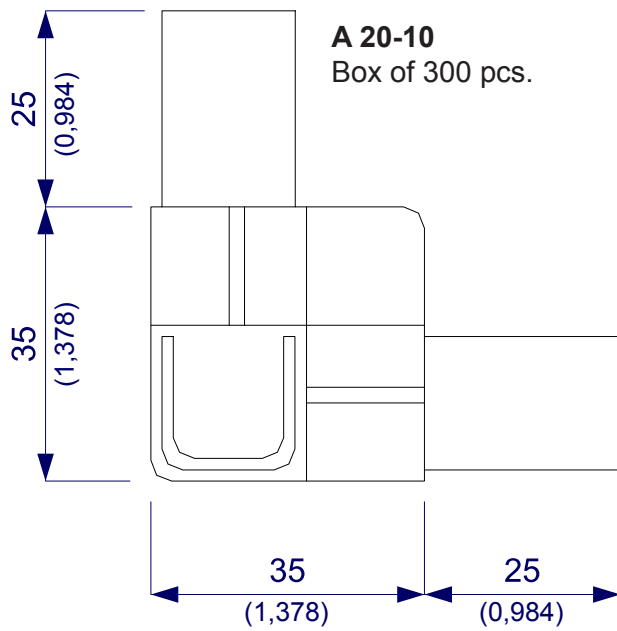
Aluminium foot



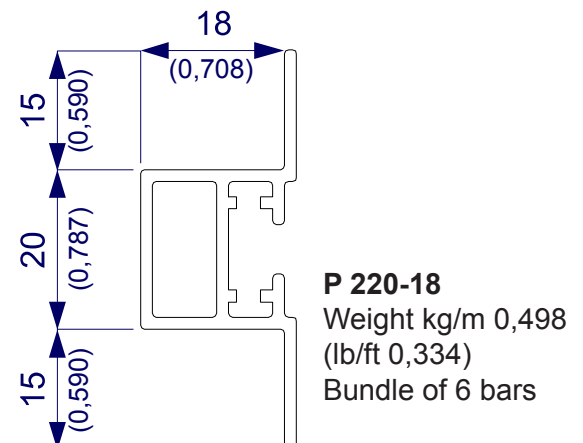
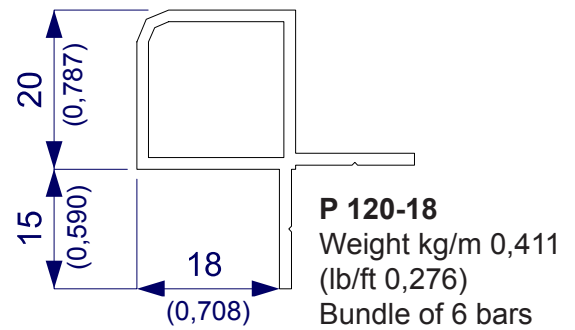
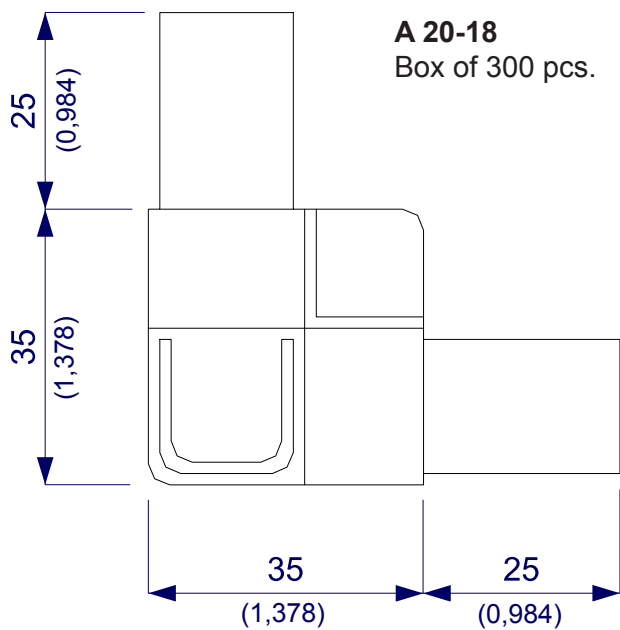
A 100FS
Box of 74 pcs.



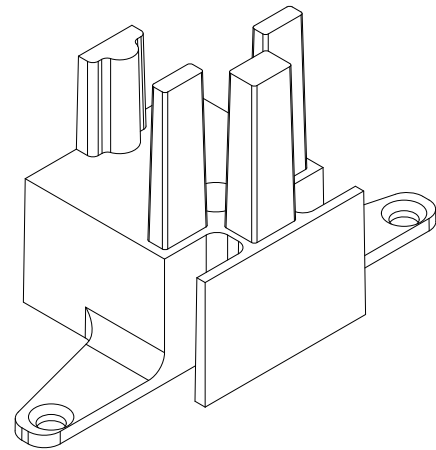
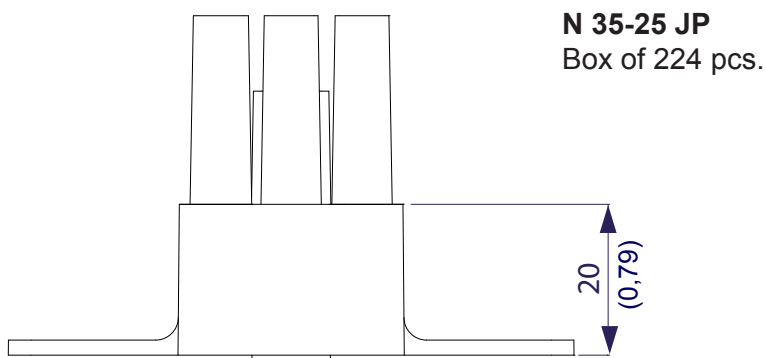
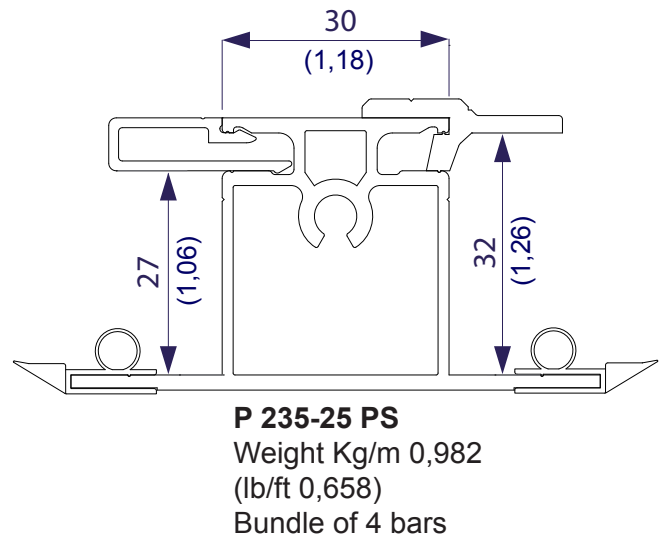
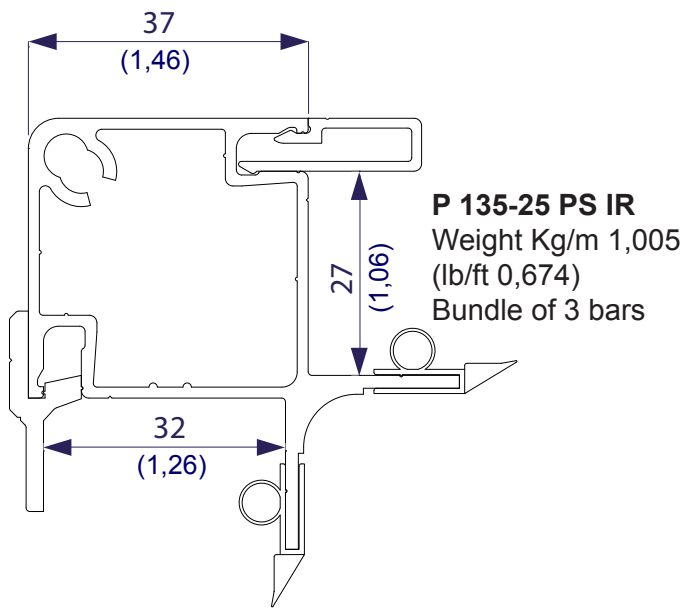
Part 2: Square profiles (section 20 panel 10 mm; aluminium corner)



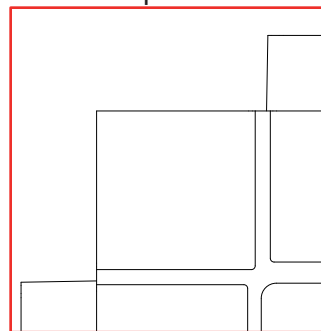
Part 2: Square profiles (section 20 panel 18 mm; aluminium corner)



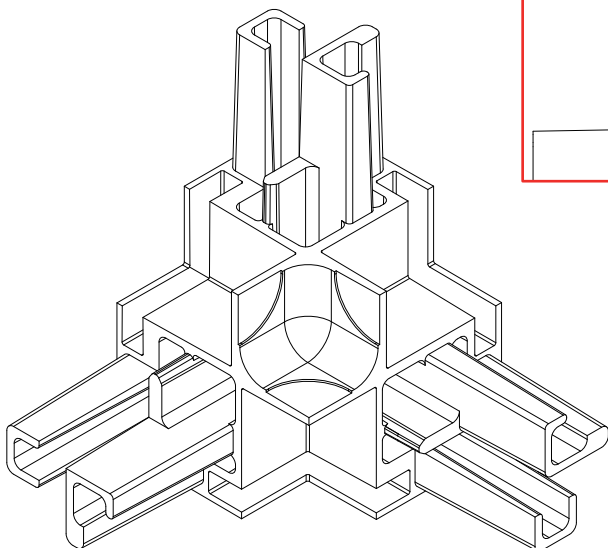
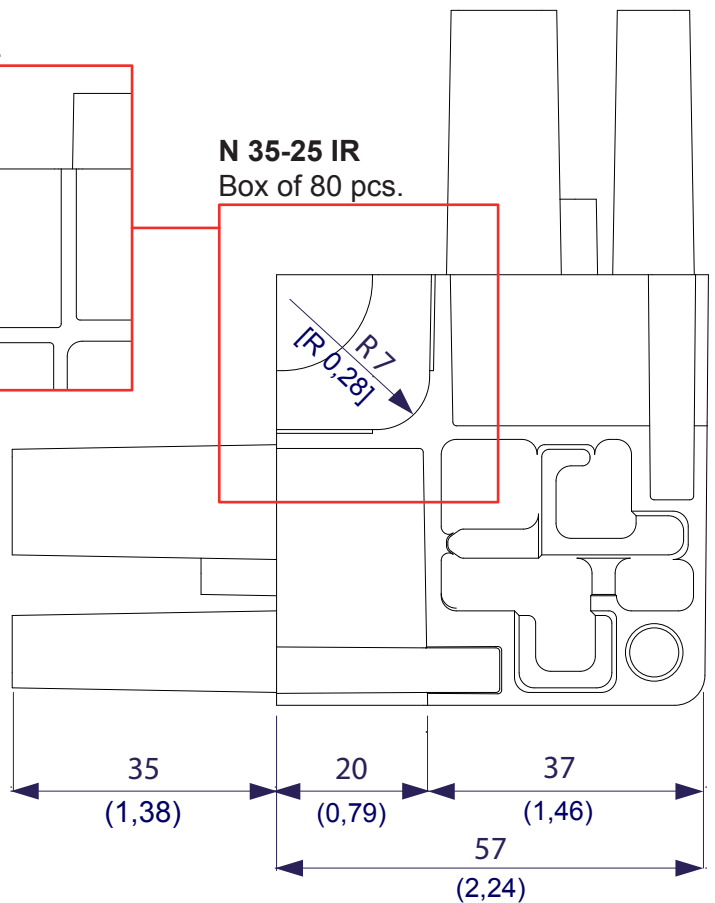
Part 2: Square profiles (section 35 panel 25/30 mm; nylon corner)



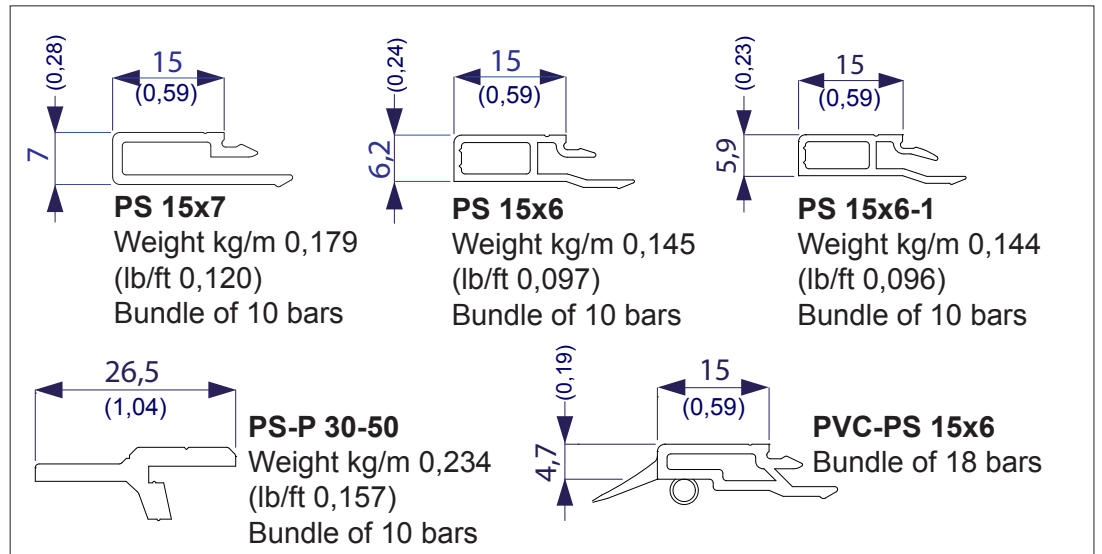
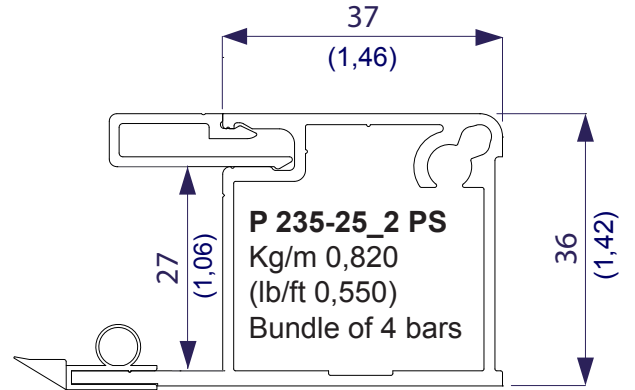
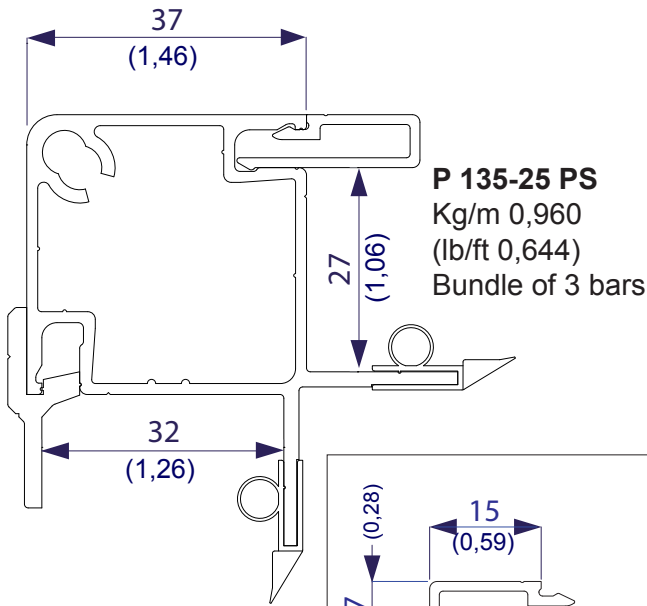
N 35-25
Box of 80 pcs.


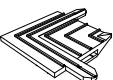



N 35-25 IR
Box of 80 pcs.



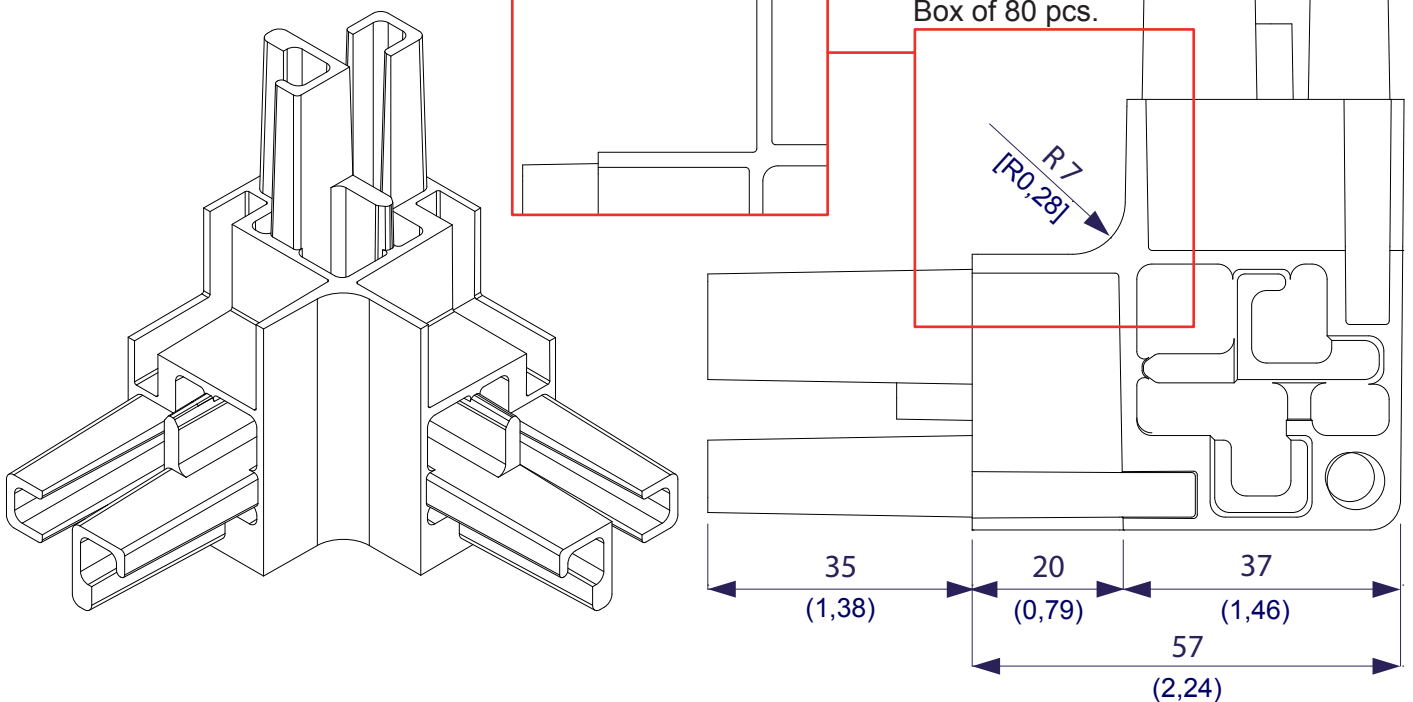
Part 2: Square profiles (section 35 panel 25/30 mm; nylon corner)



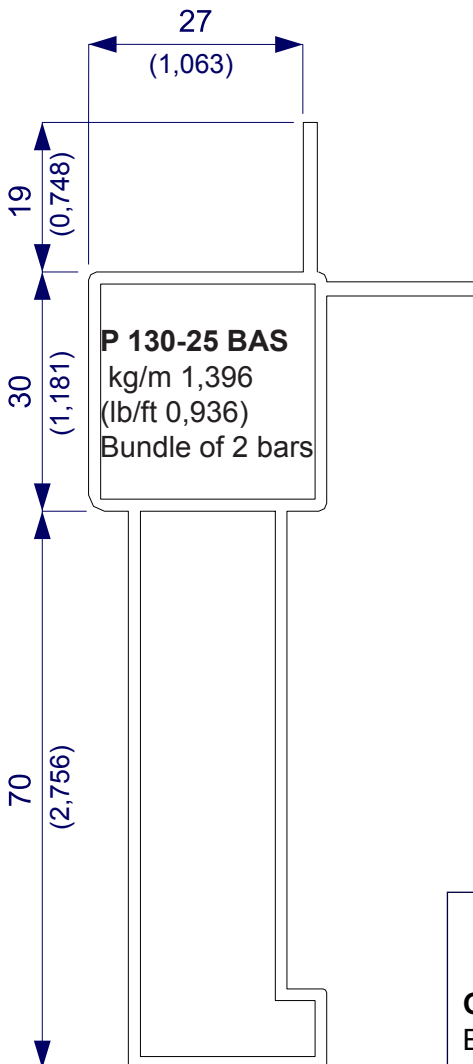
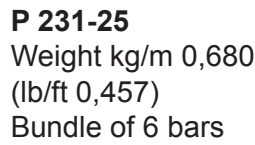
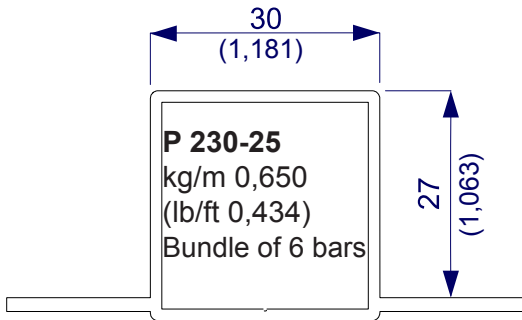
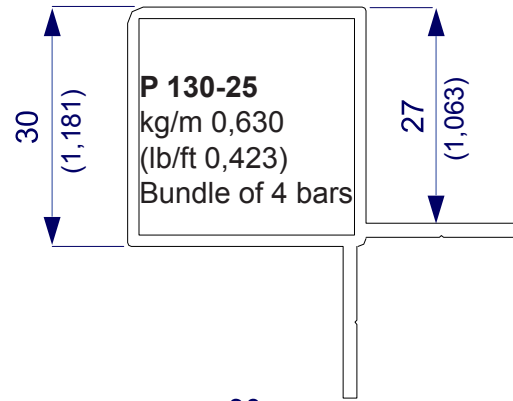
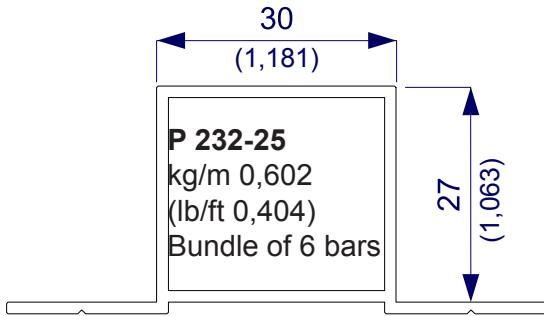
GASKET	
	G002 Bundle of 100 mt.
	GS-20 Box of 1.000 pcs.
	PVC PS C Bundle of 120 mt.

N 35-25_2 JP
Box of 80 pcs.

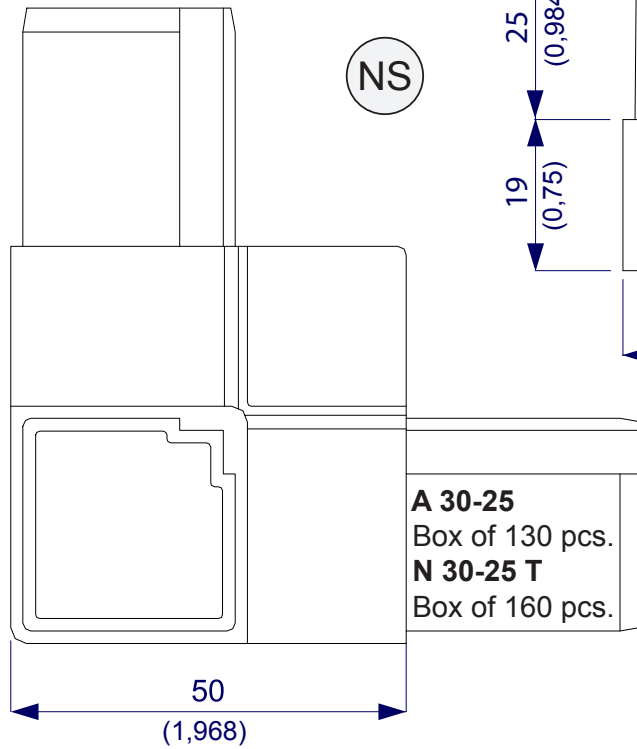
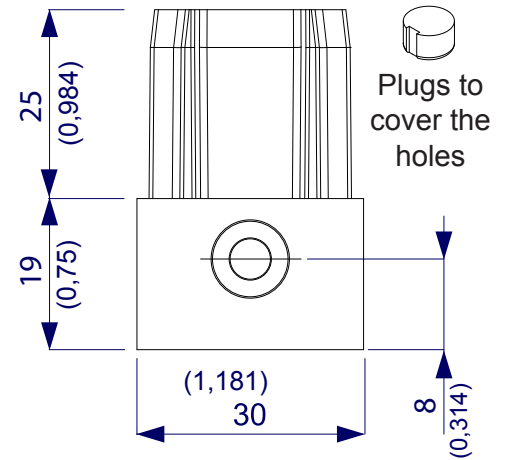
N 35-25_2 IR JP
Box of 80 pcs.



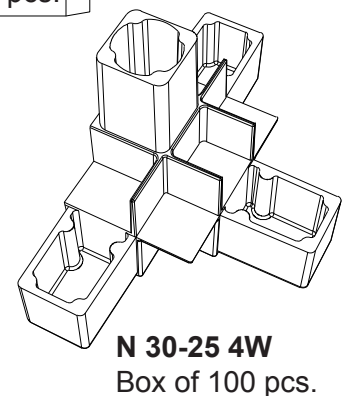
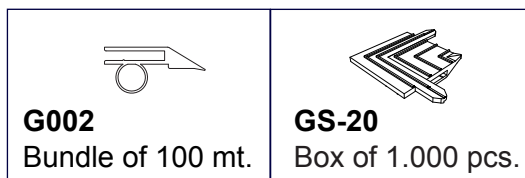
Part 2: Square profiles (section 30 panel 25 mm; aluminium and nylon corner)



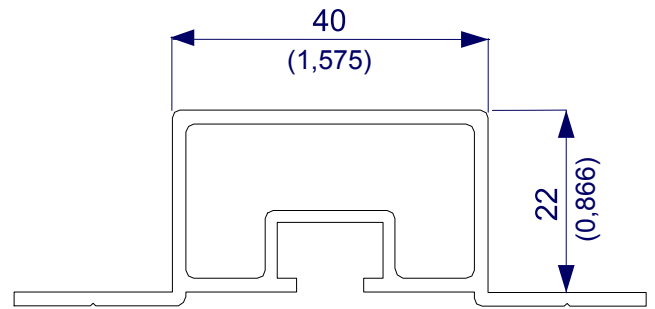
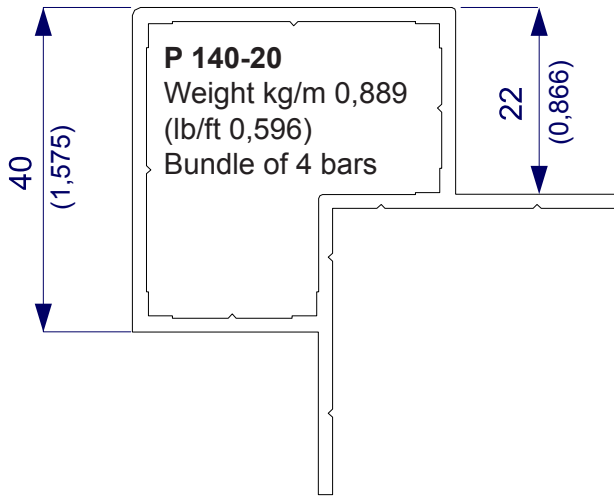
N 30 JP
Box of 400 pcs.



GASKET

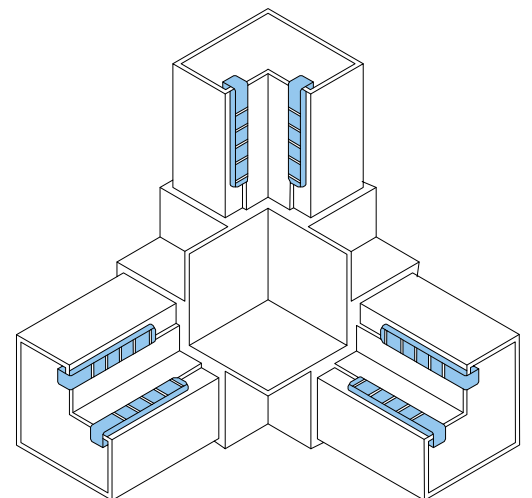
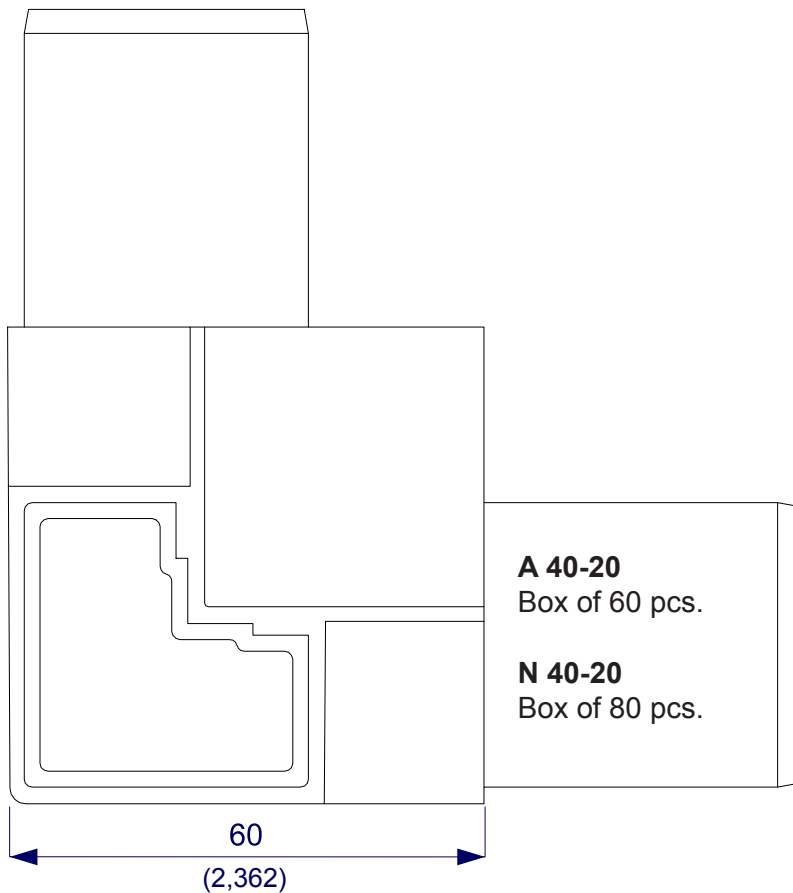
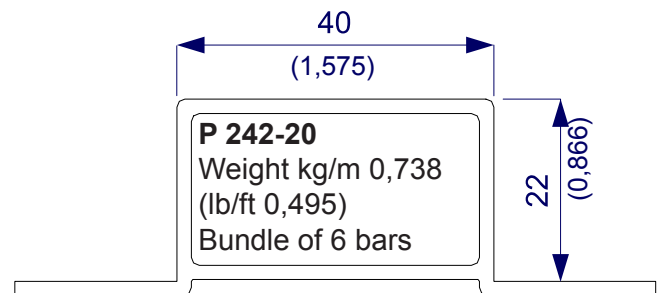
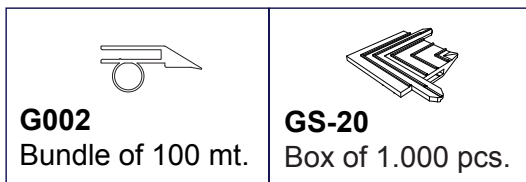


Part 2: Square profiles (section 40 panel 20 mm; aluminium and nylon corner)

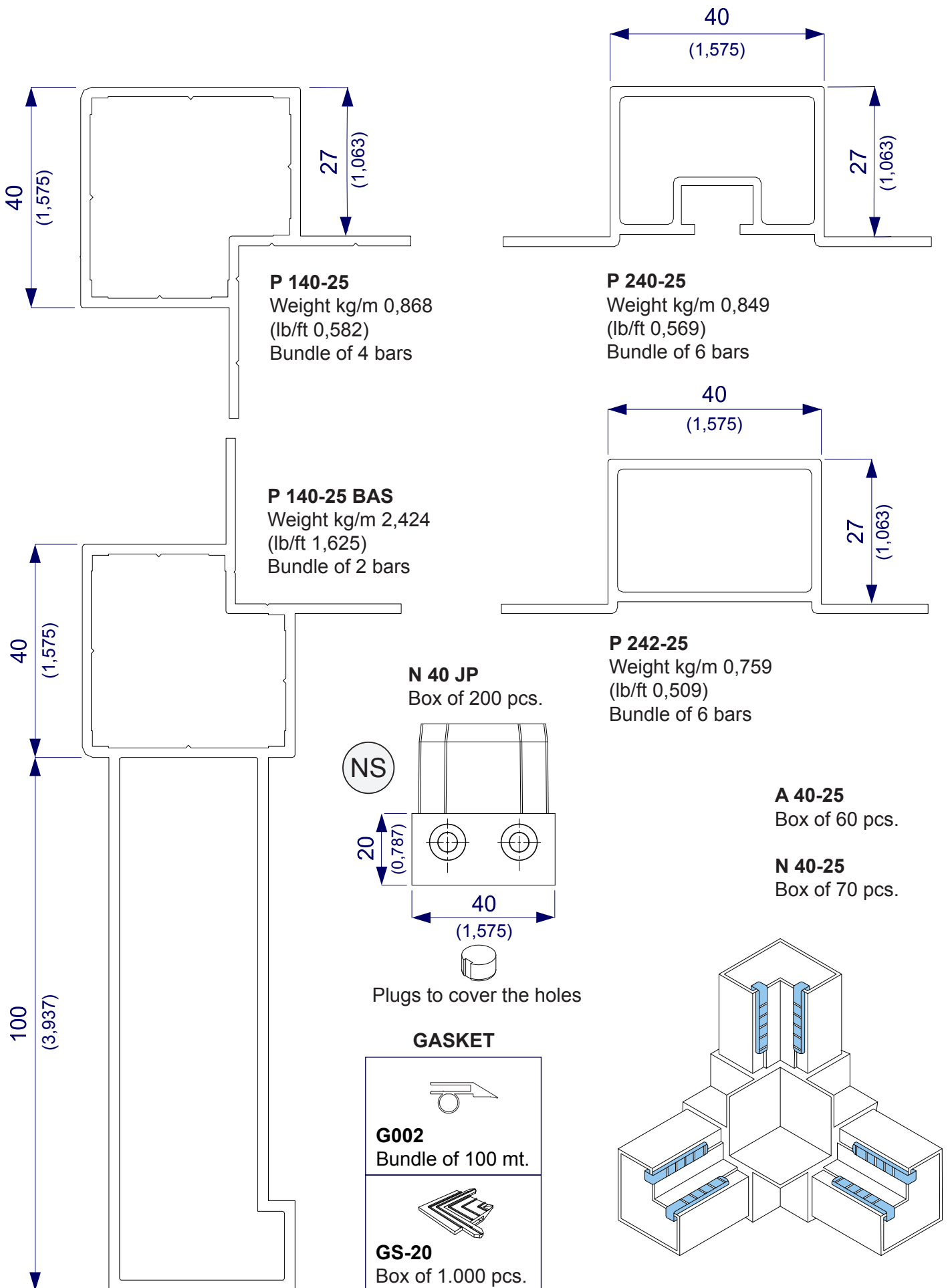


P 240-20
Weight kg/m 0,833
(lb/ft 0,558)
Bundle of 6 bars

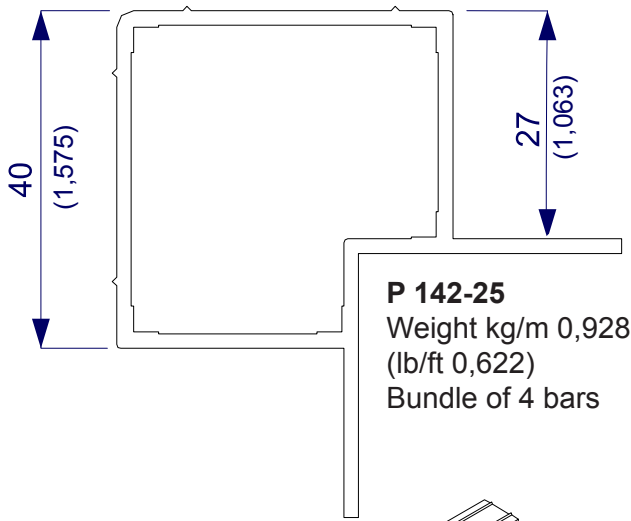
GASKET



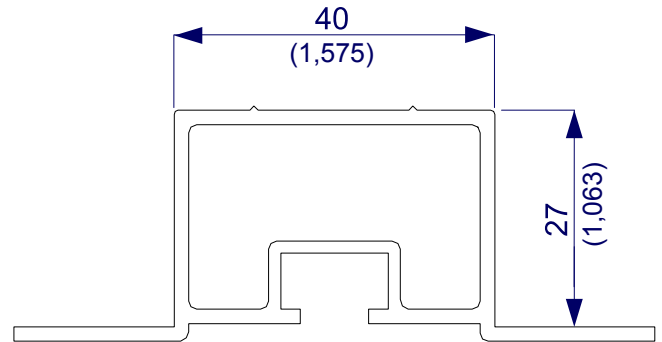
Part 2: Square profiles (section 40 panel 25 mm; aluminium and nylon corner)



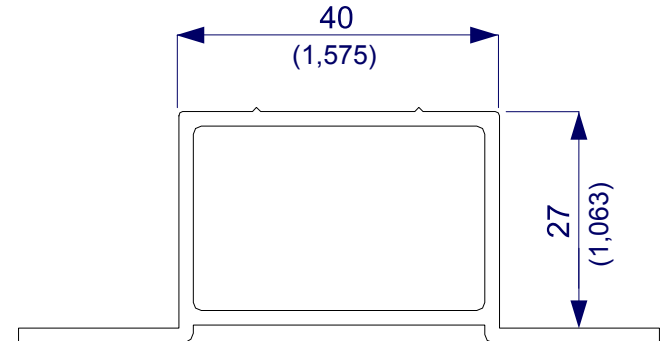
Part 2: Square profiles with ridges to prevent scratches
(section 40 panel 25 mm; aluminium and nylon corner)



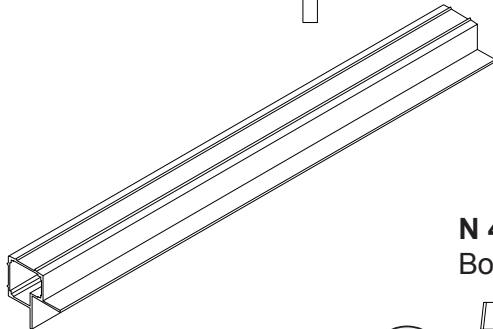
P 142-25
Weight kg/m 0,928
(lb/ft 0,622)
Bundle of 4 bars



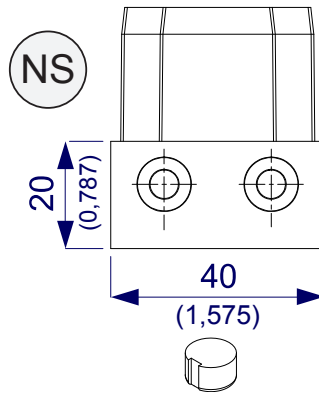
S 2400-25
Weight kg/m 0,870
(lb/ft 0,583)
Bundle of 6 bars



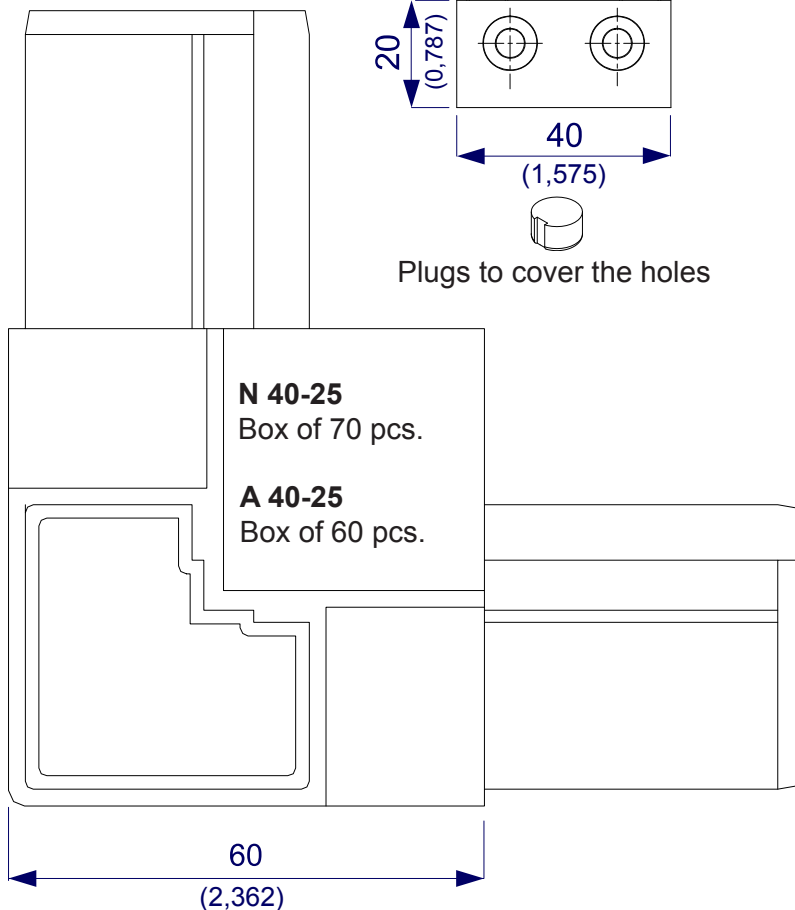
S 2401-25
Weight kg/m 0,758
(lb/ft 0,508)
Bundle of 6 bars



N 40 JP
Box of 200 pcs.

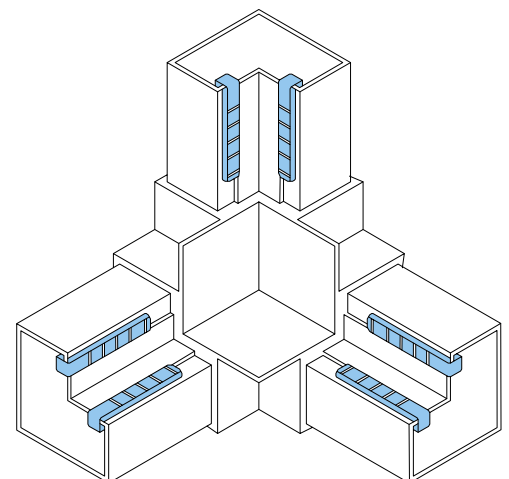


Plugs to cover the holes


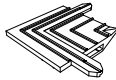


N 40-25
Box of 70 pcs.

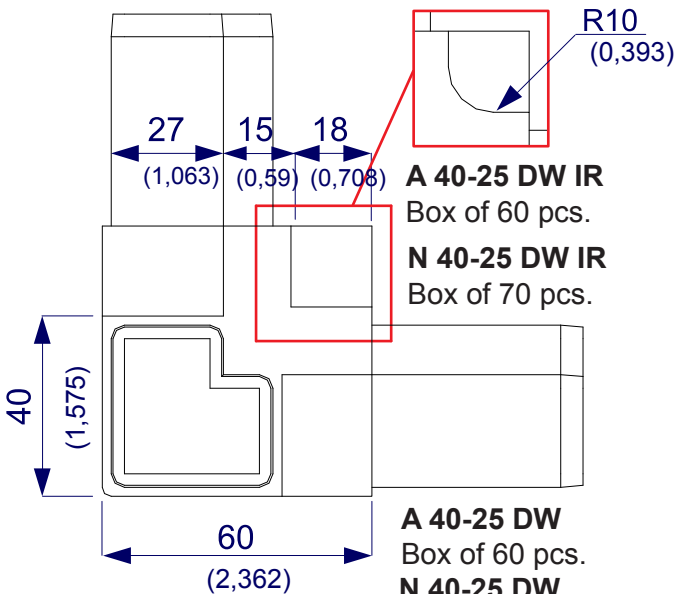
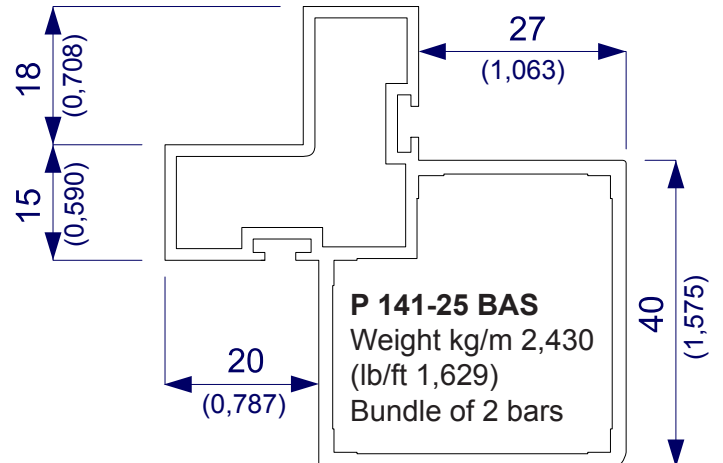
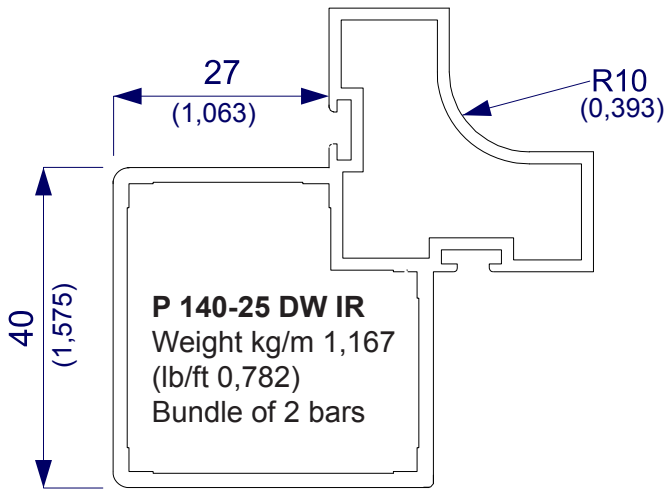
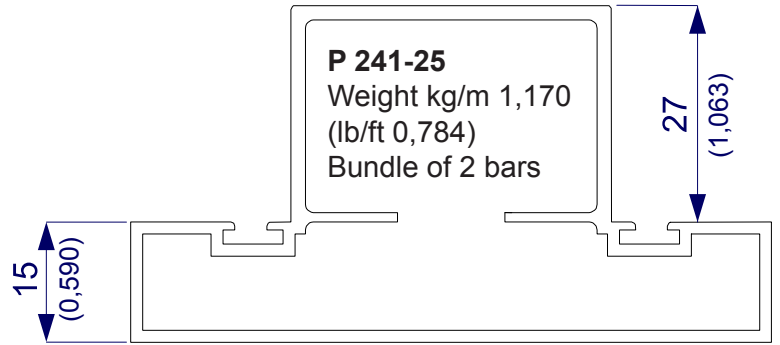
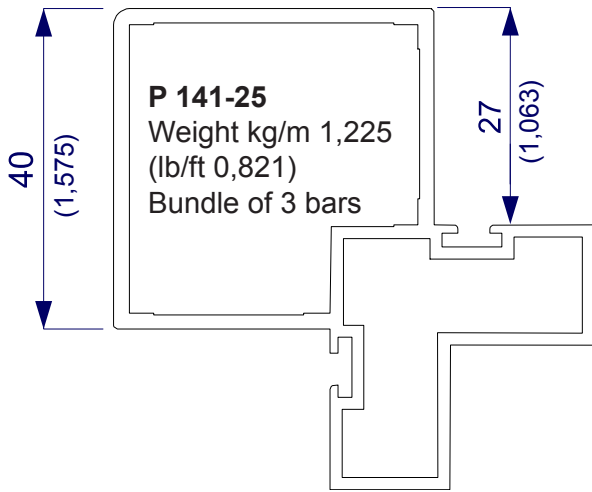
A 40-25
Box of 60 pcs.



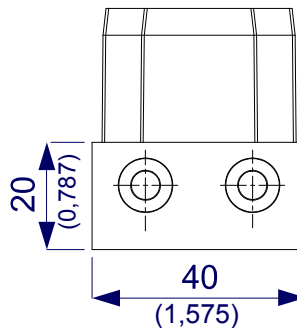
GASKET

 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)





N 40 JP
Box of 200 pcs.

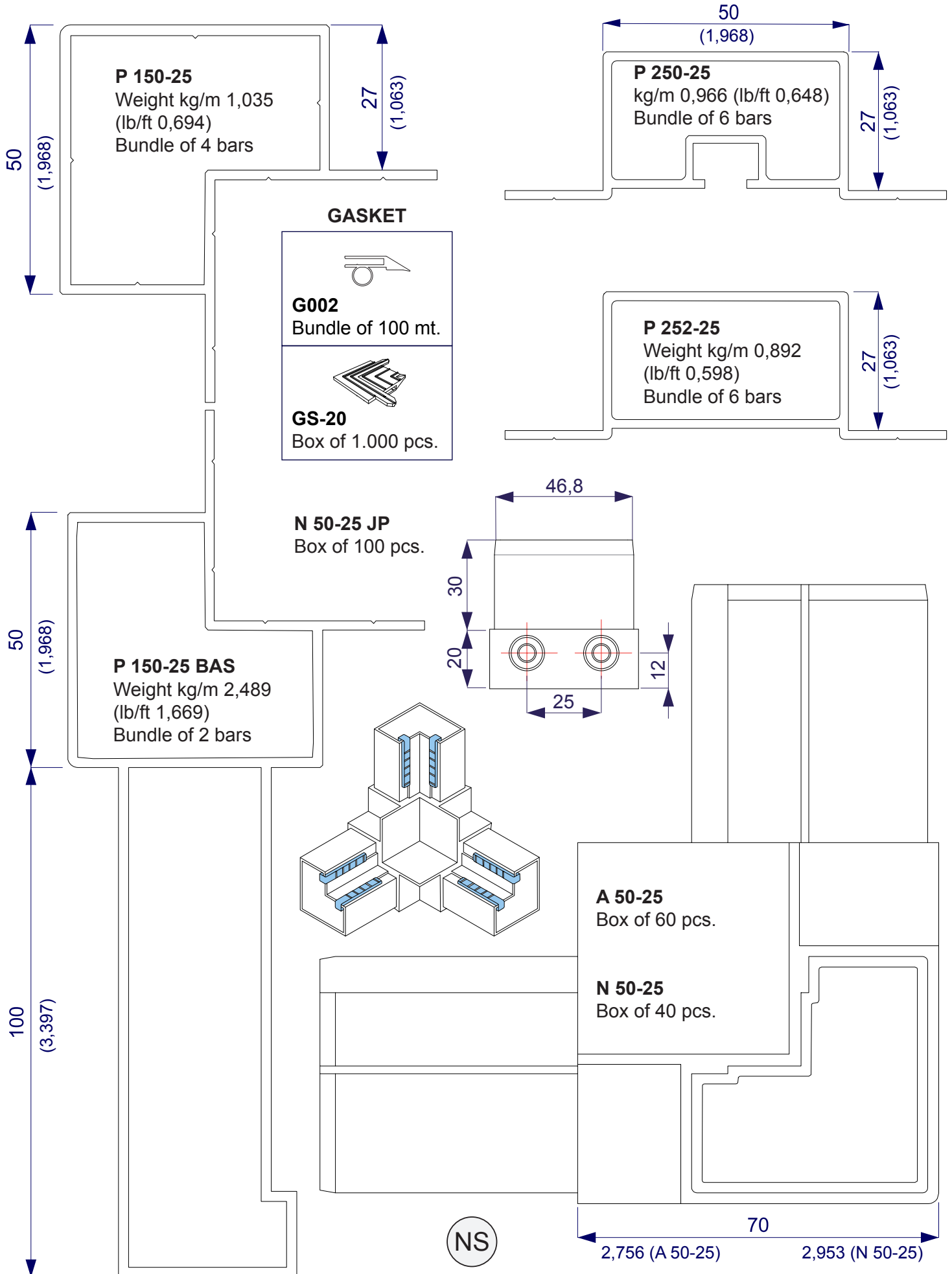


Plugs to cover the holes

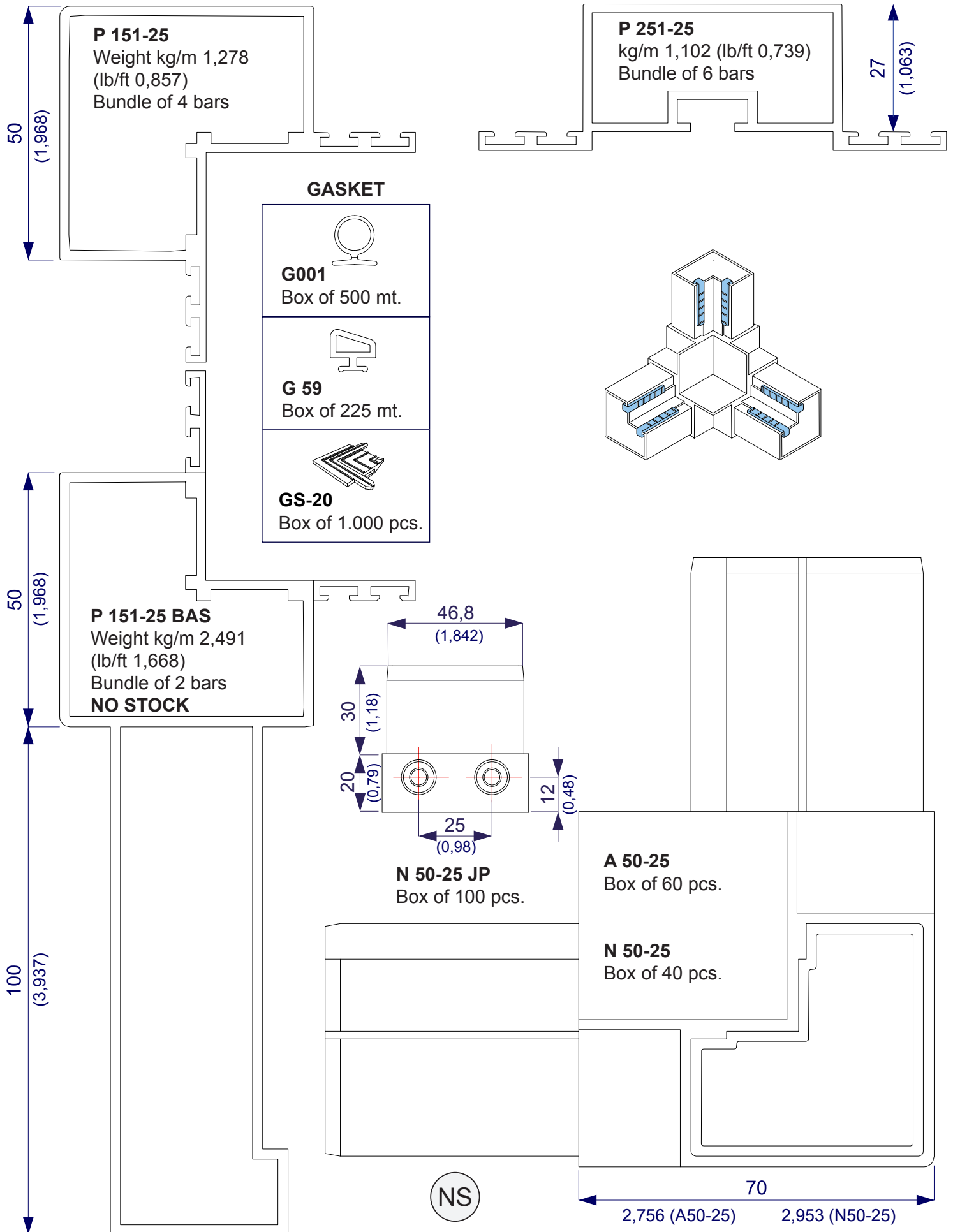
GASKET

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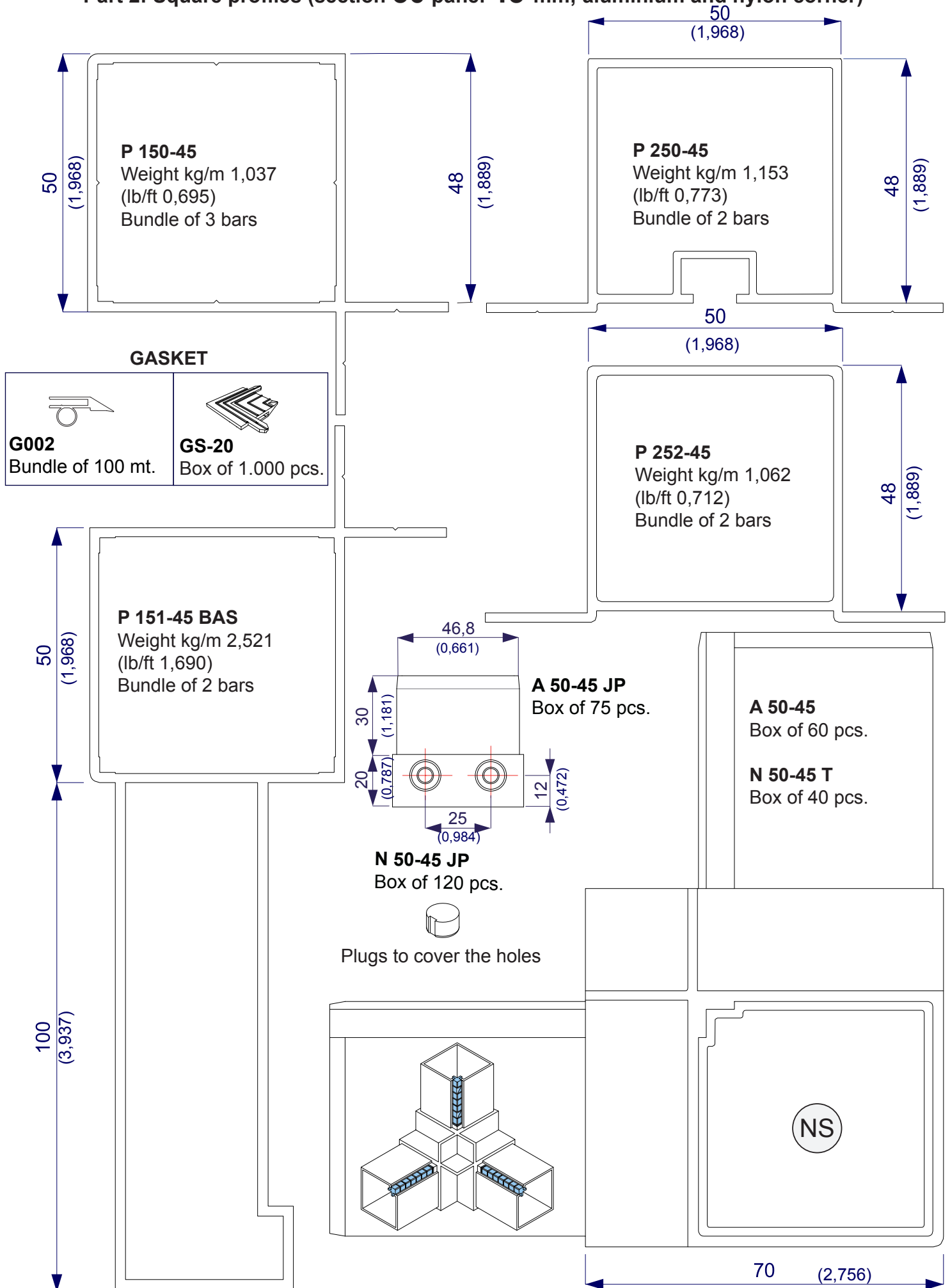
Part 2: Square profiles (section 50 panel 25 mm; aluminium and nylon corner)



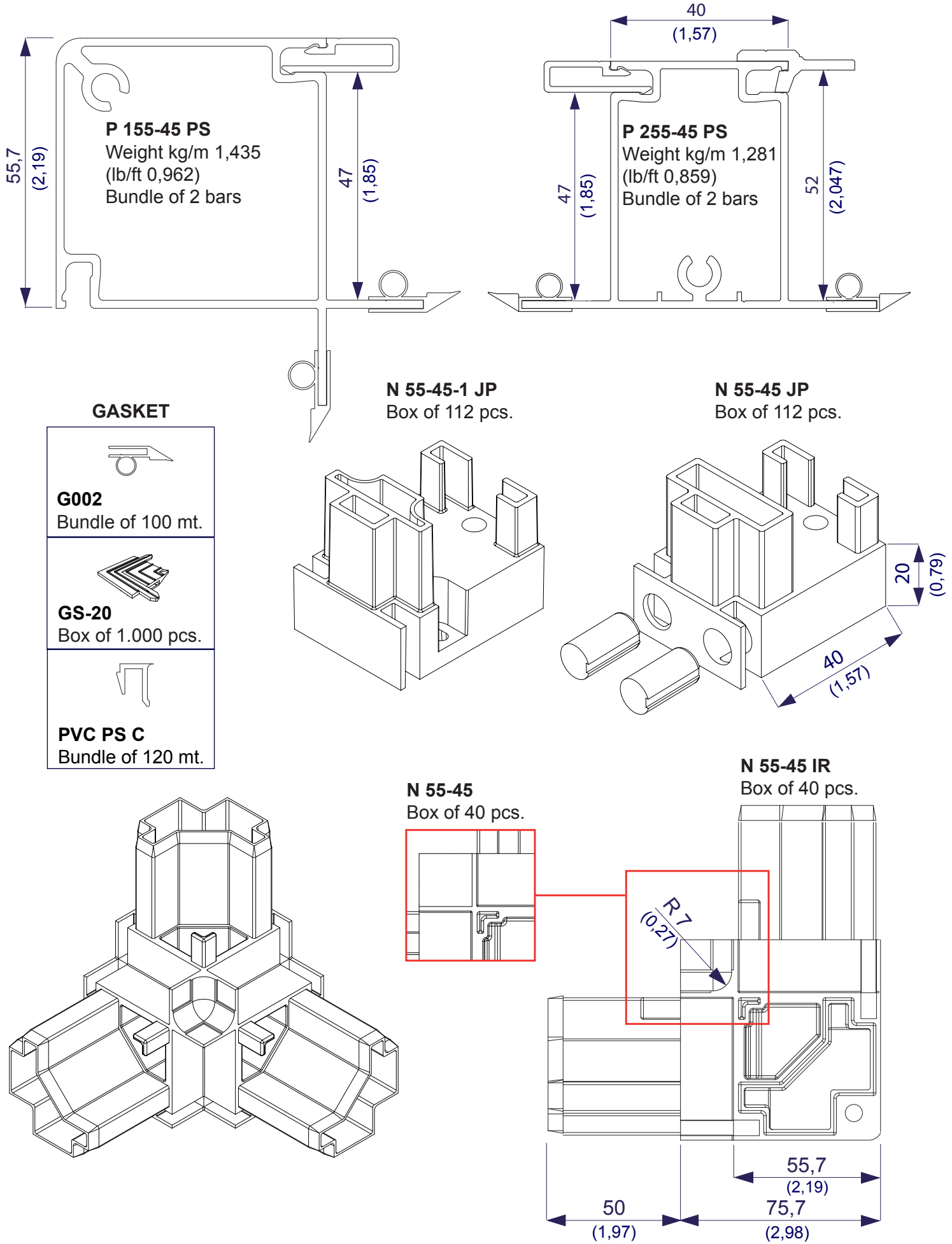
Part 2: Square profiles with groove for gasket
(section 50 panel 25 mm; aluminium and nylon corner)



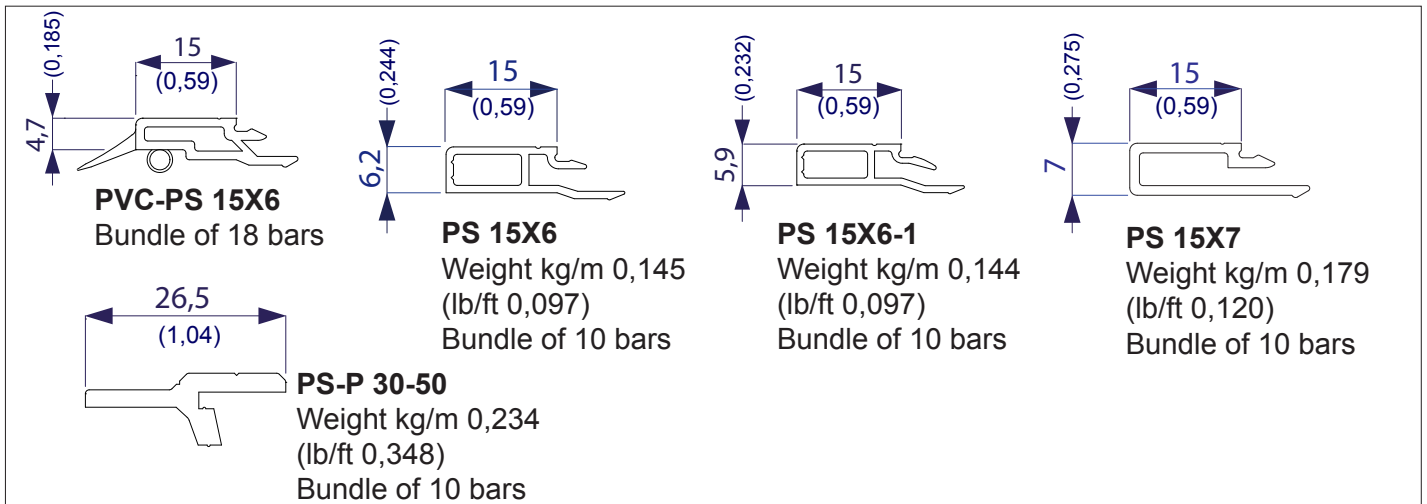
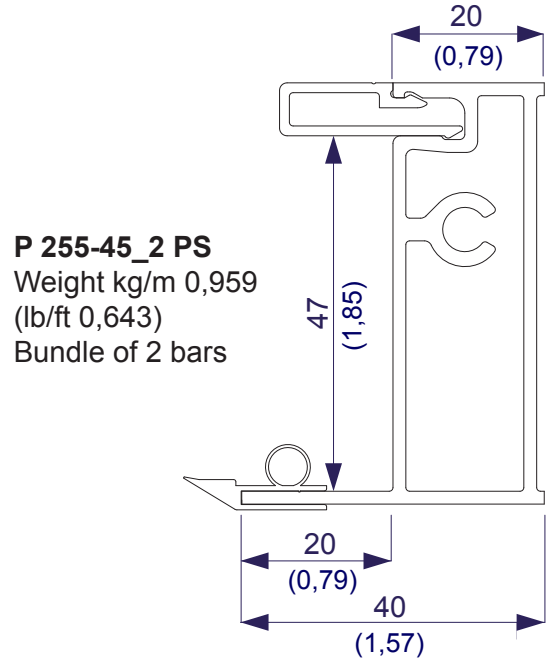
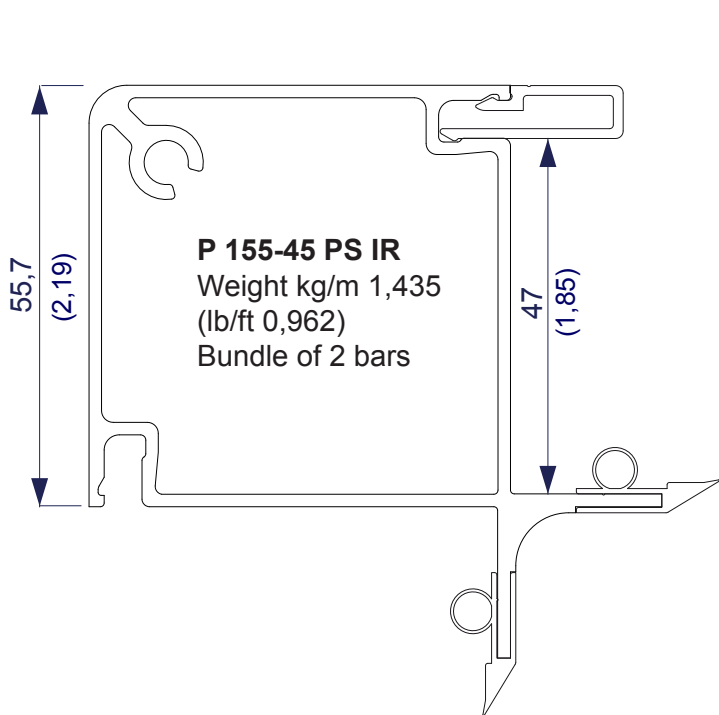
Part 2: Square profiles (section 50 panel 45 mm; aluminium and nylon corner)



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

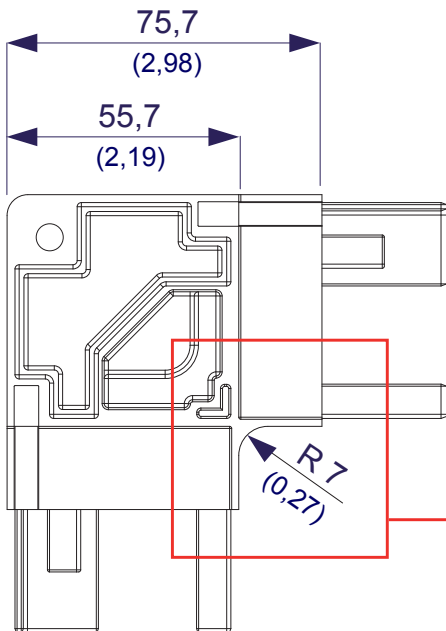


Part 2: Square profiles (section 55 panel 45/50 mm; nylon corner)



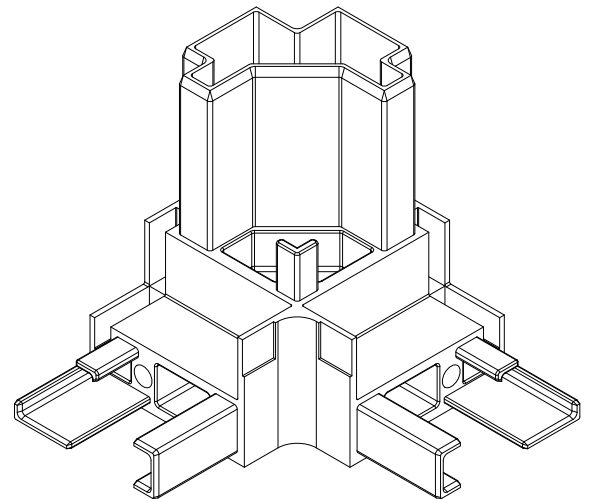
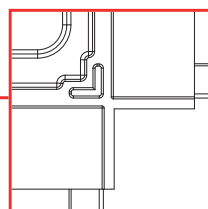
N 55-45_2 IR JP

Box of 50 pcs.

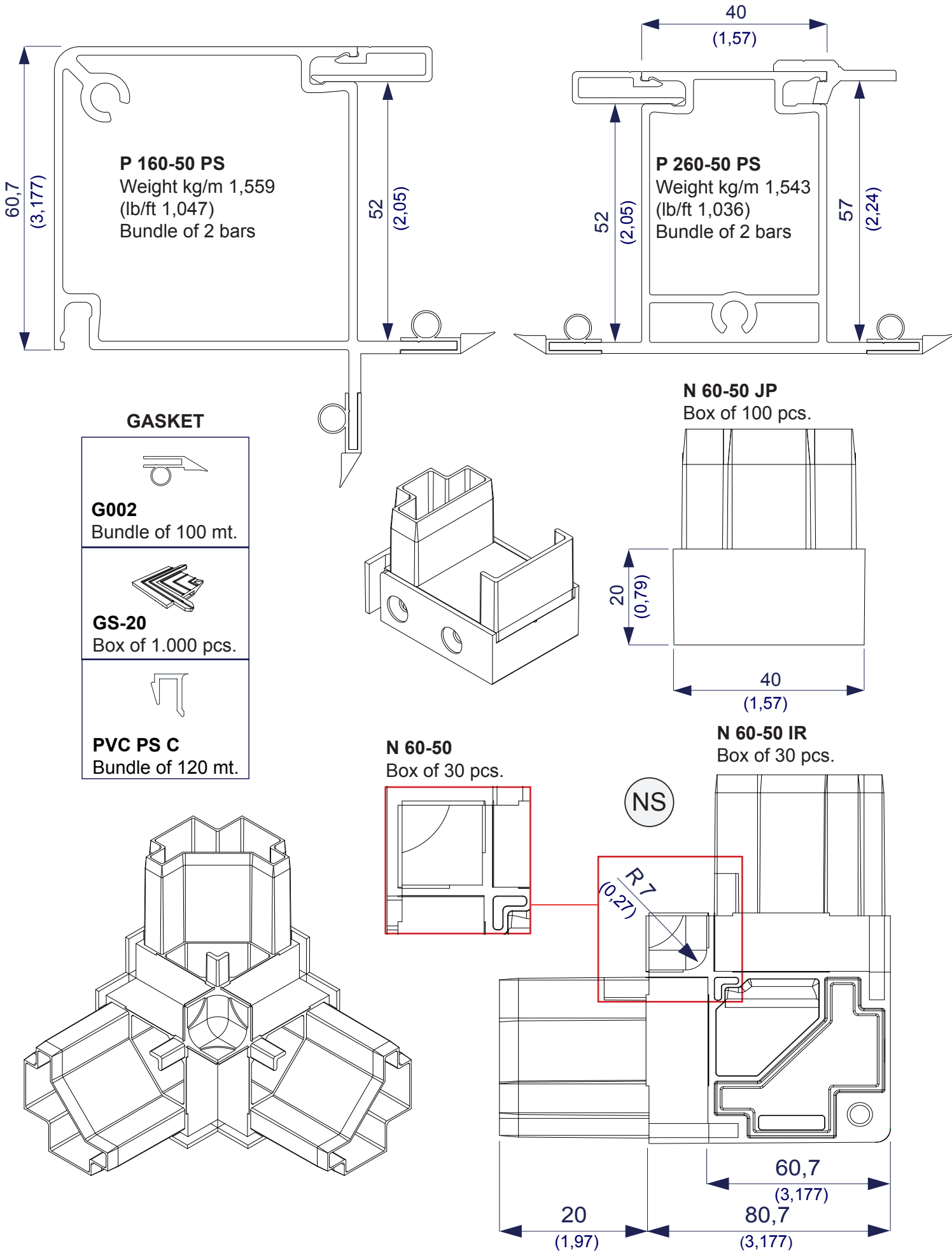


N 55-45_2 JP

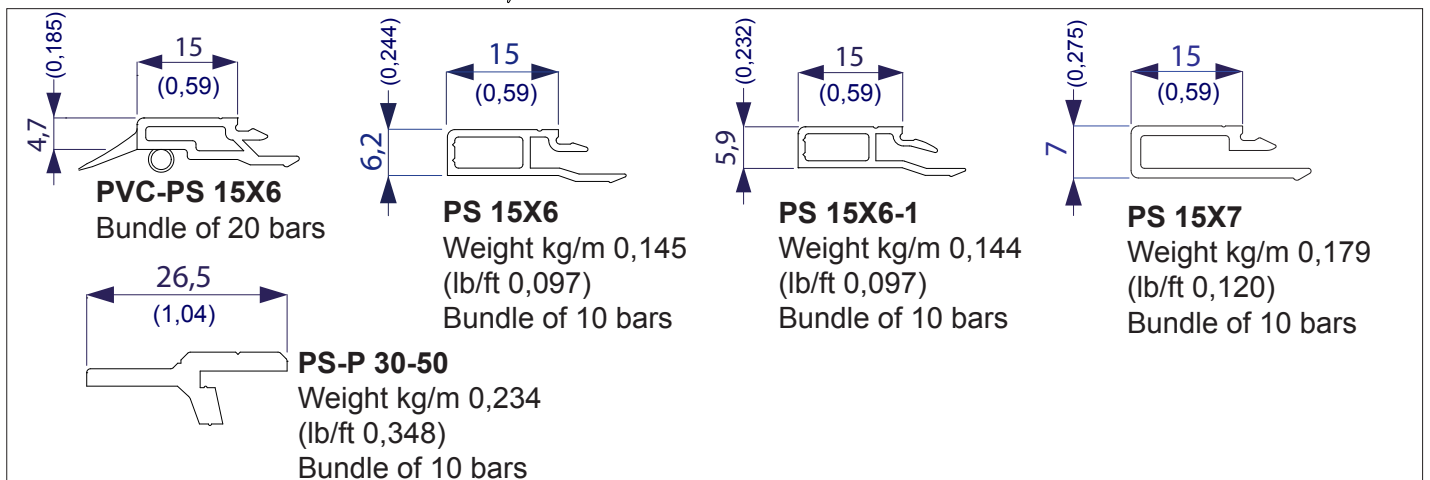
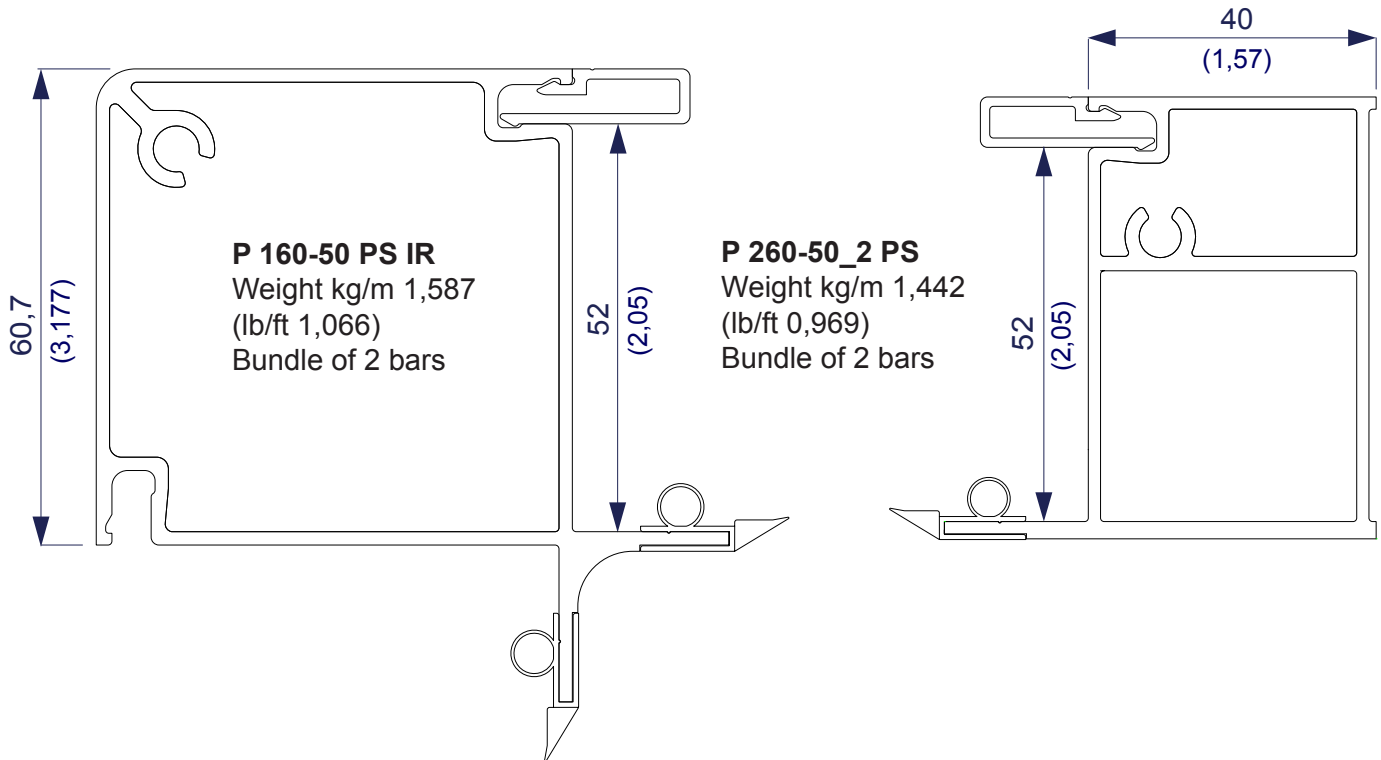
Box of 50 pcs.



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

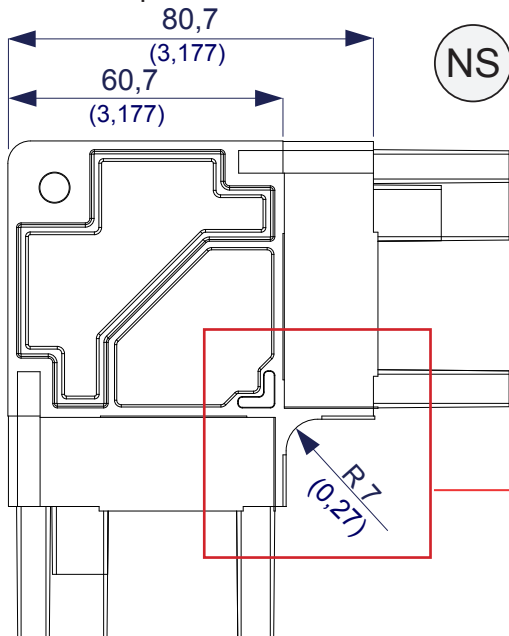


Part 2: Square profiles (section 60 panel 50/55 mm; nylon corner)



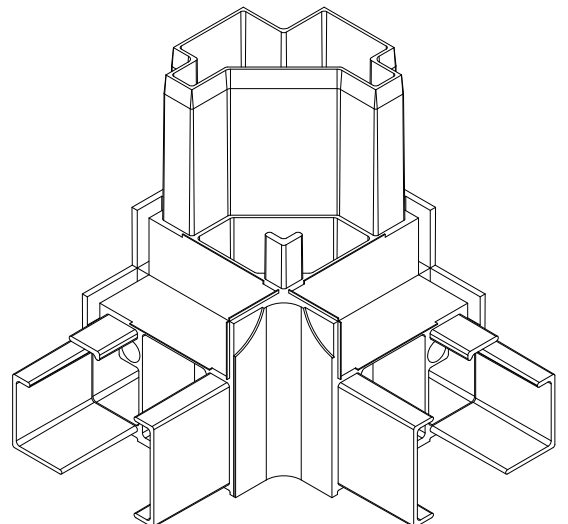
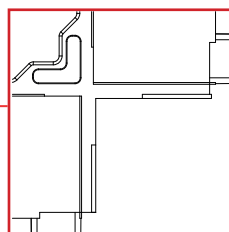
N 60-50_2 IR JP

Box of 50 pcs.



N 60-50_2 JP

Box of 50 pcs.



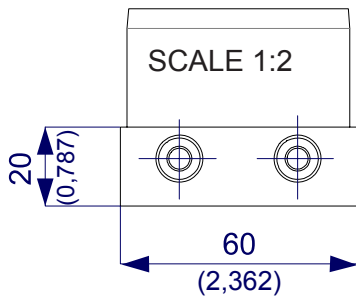
Part 2: Square section, double wall to hide the screws
(section **60** panel **45** mm; nylon corner)

N 60 JP

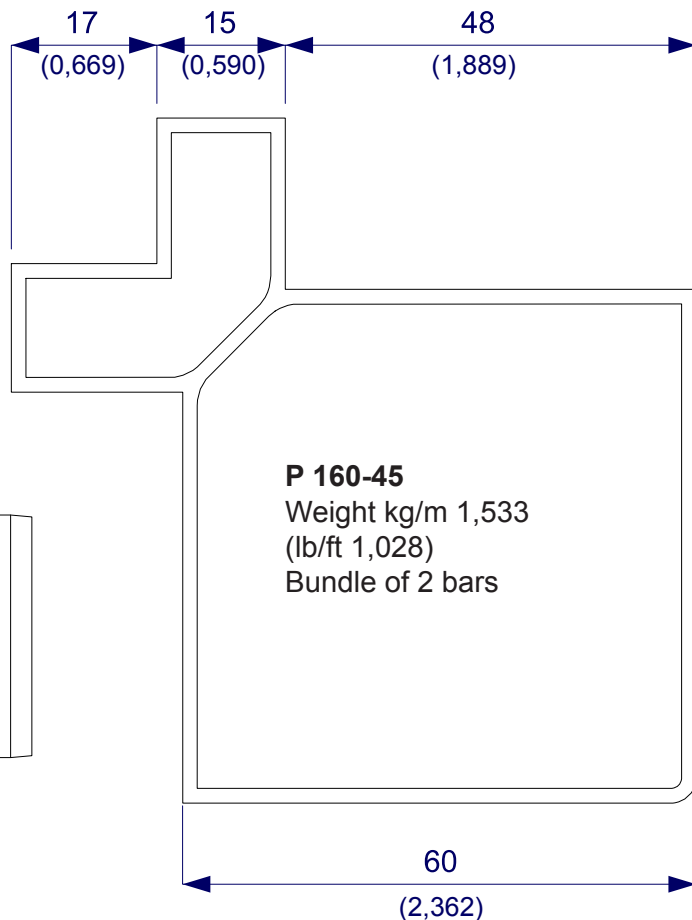
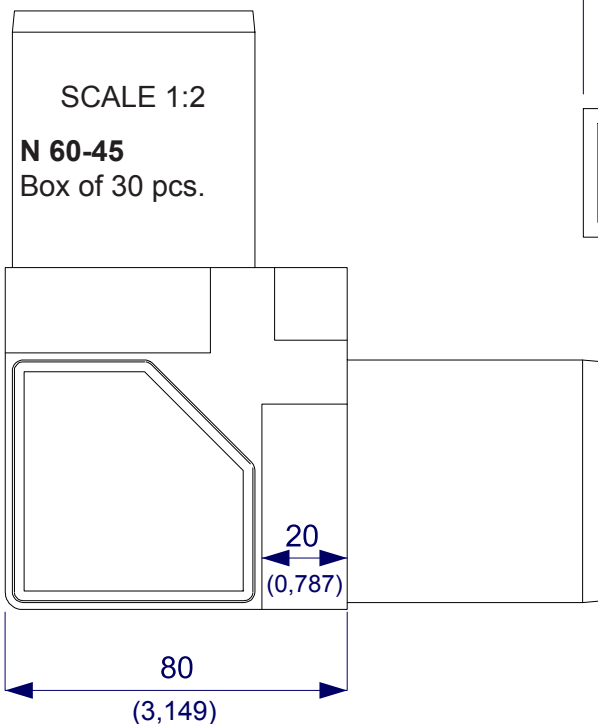
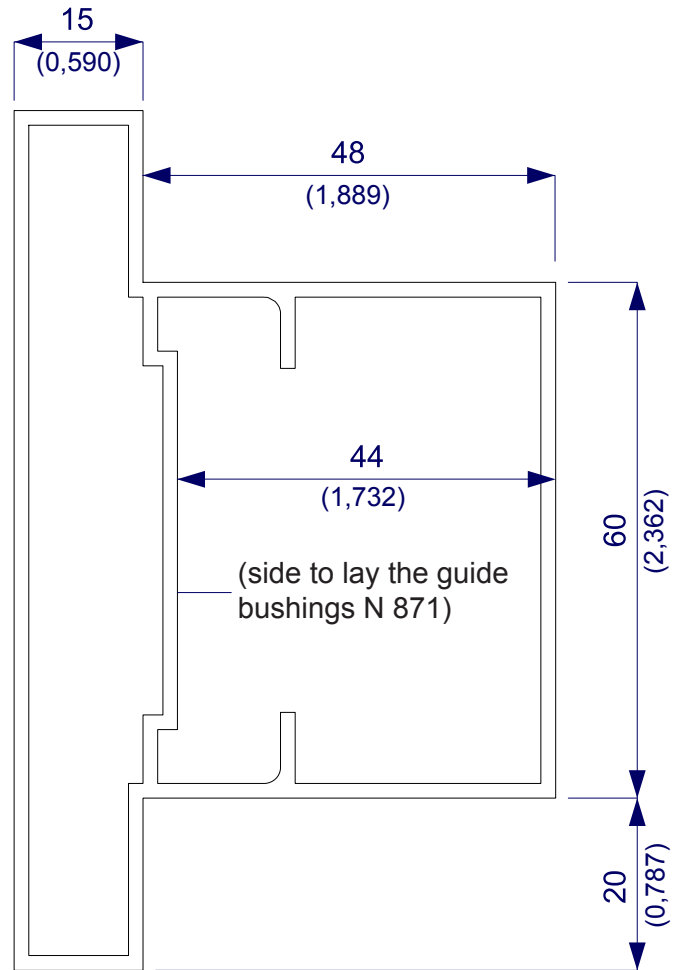
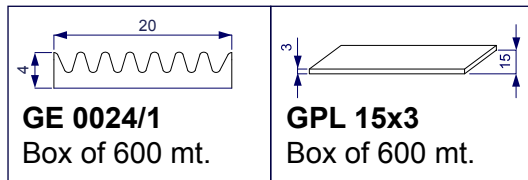
Nylon joint to fasten the omega profile
Box of 200 pcs.

P 260-45

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



GASKET



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

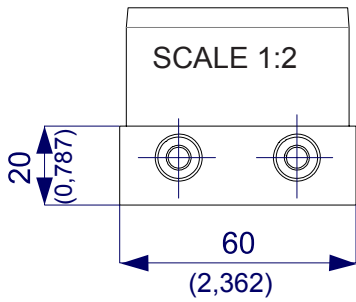
(section **60** panel **45** mm; nylon corner)

N 60 JP

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

P 260-45

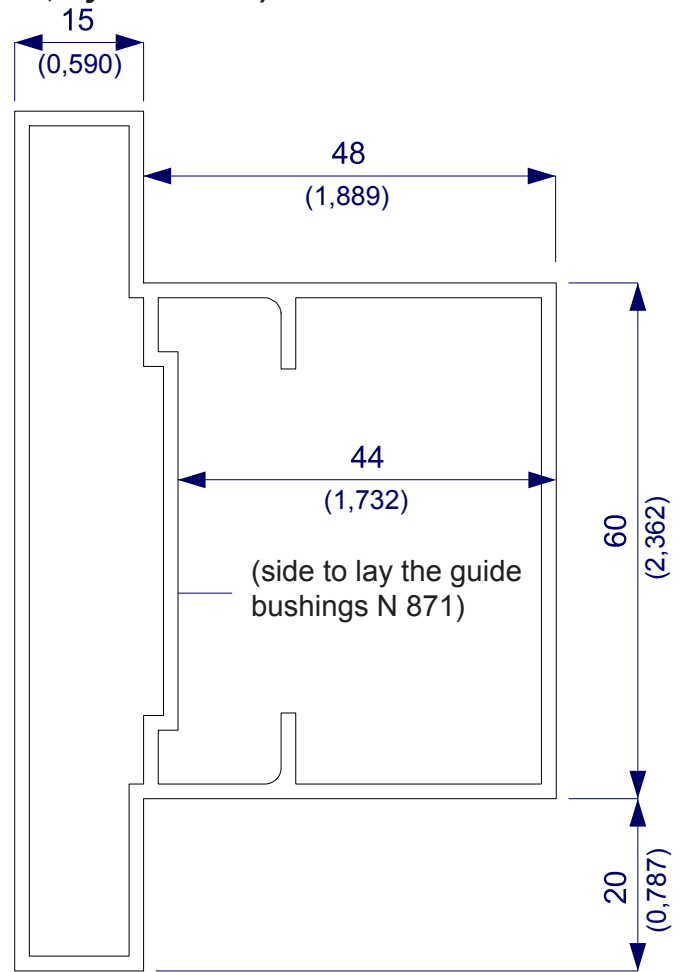
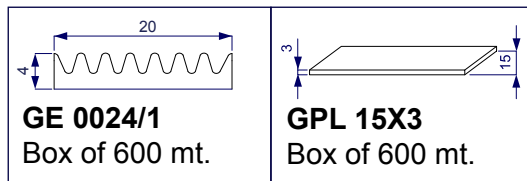
Weight kg/m 1,861
(lb/ft 1,250)
Bundle of 2 bars



Plugs to cover the holes

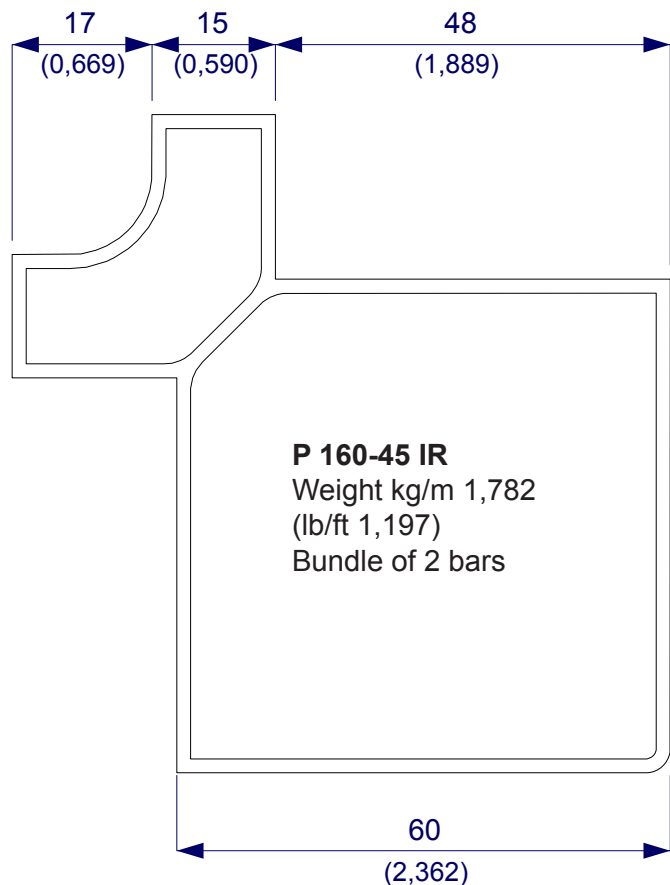
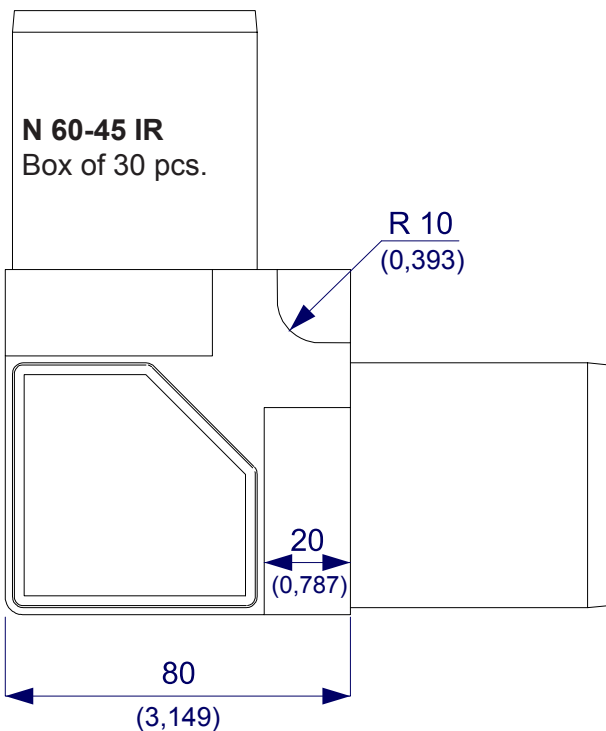


GASKET



N 60-45 IR

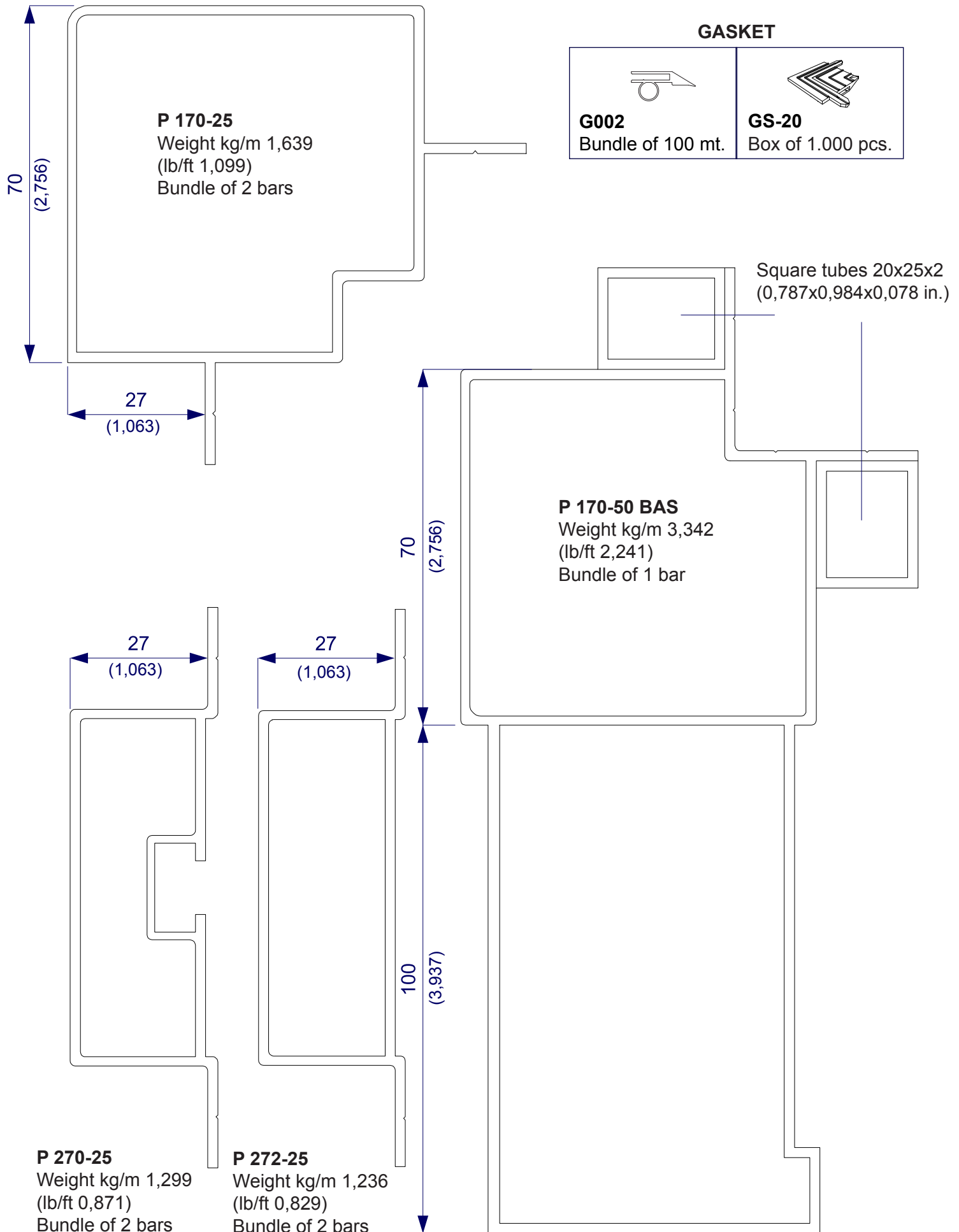
Box of 30 pcs.



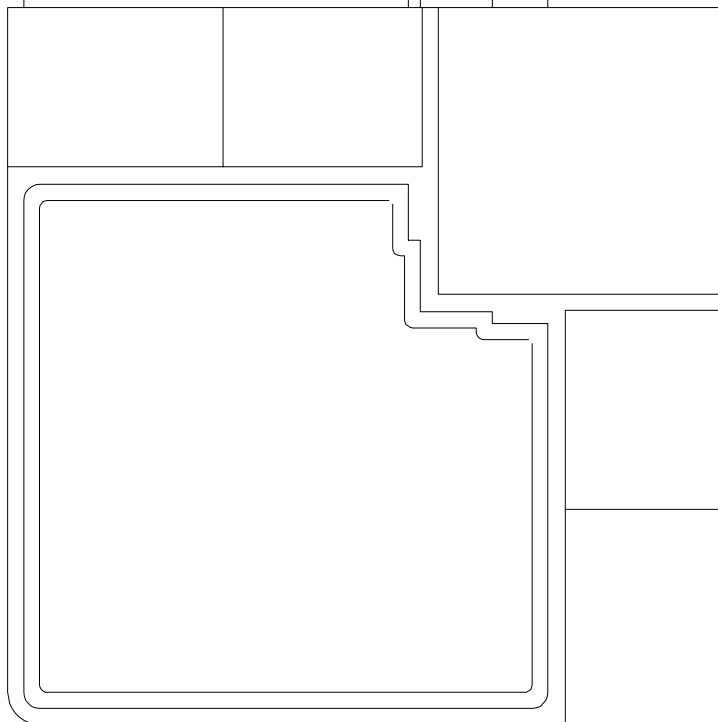
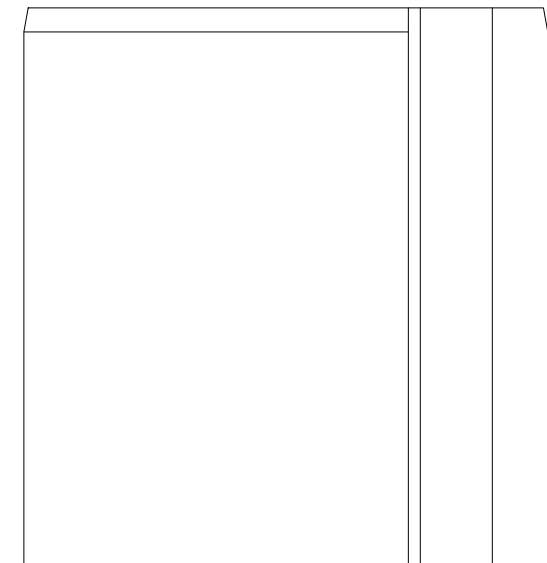
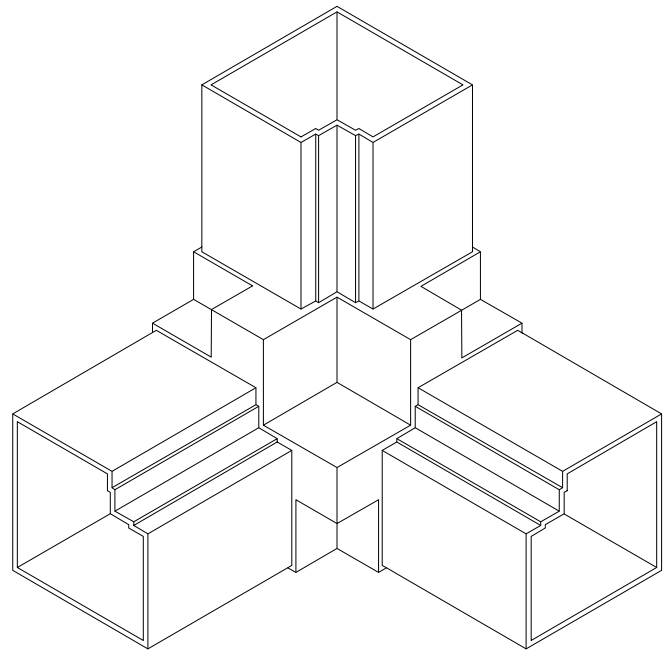
P 160-45 IR

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

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



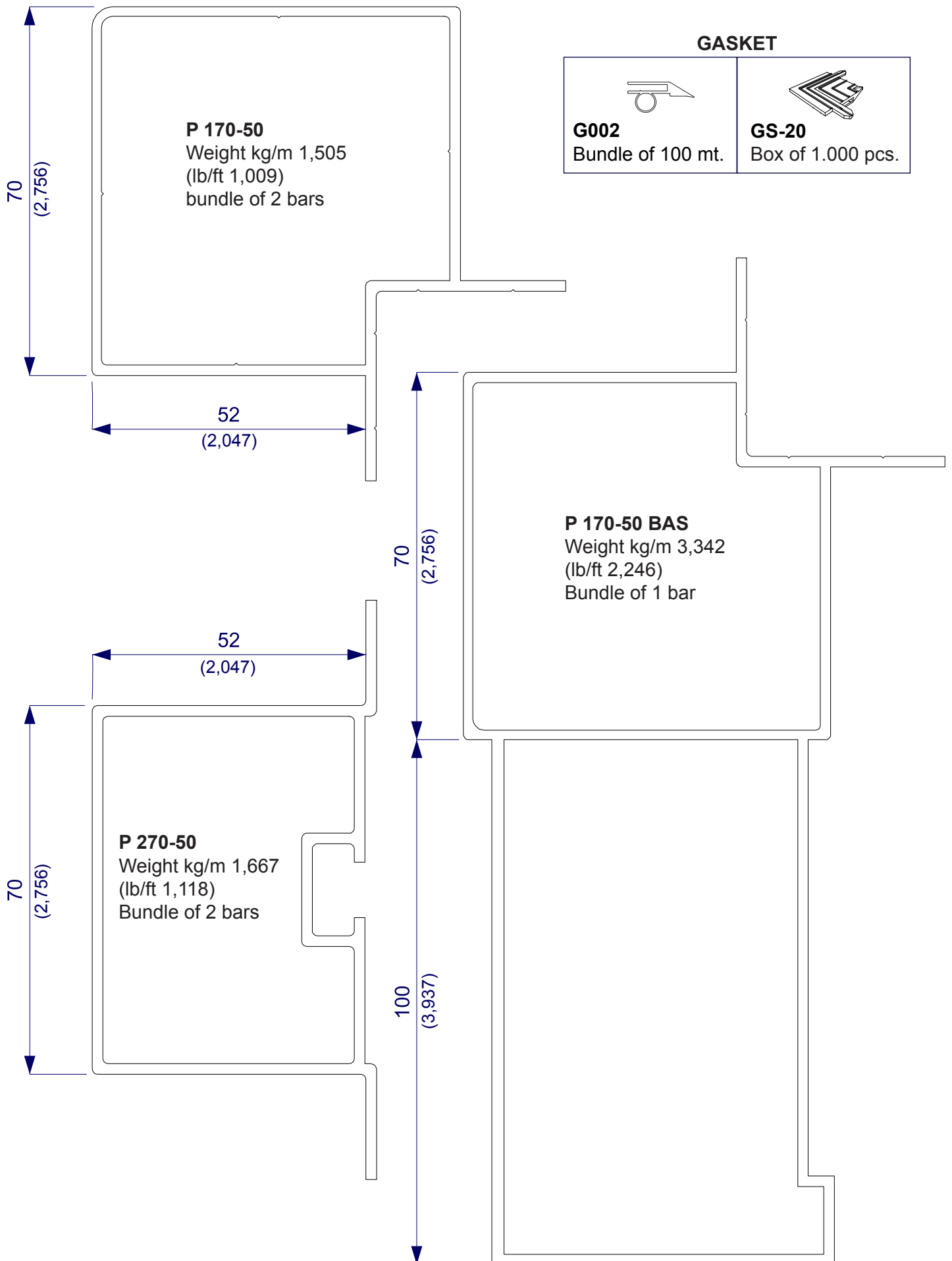
Part 2: Square profiles (section 70 panel 25 mm; aluminium corner)



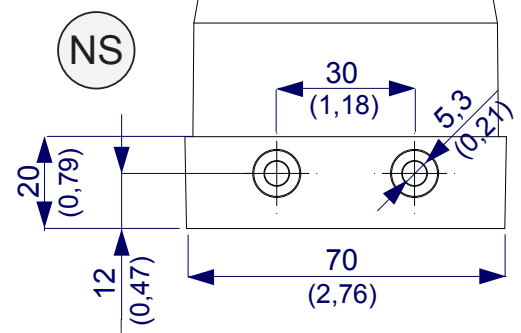
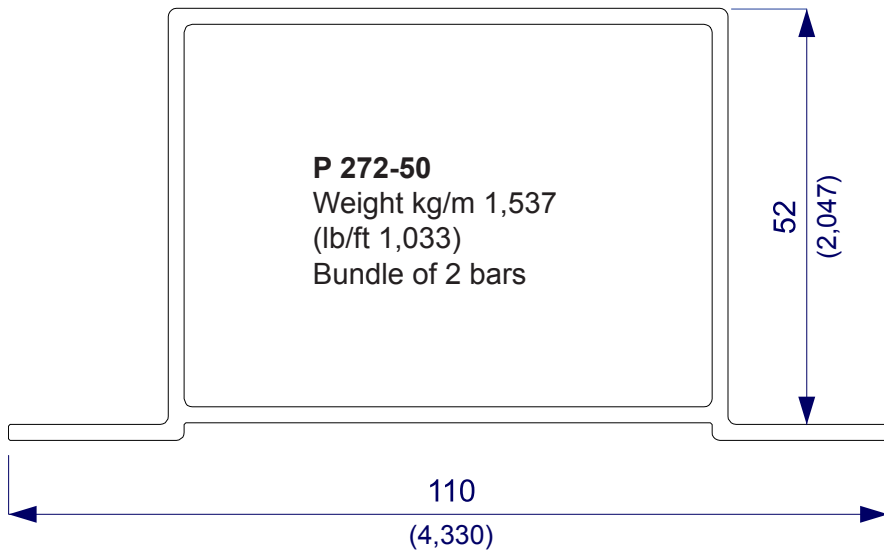
A 70-25
Box of 16 pcs.

90
(3,543)

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



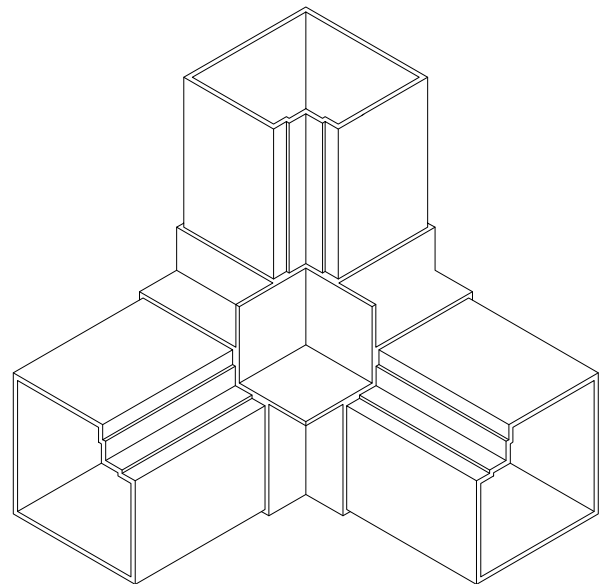
Part 2: Square profiles (section 70 panel 50 mm; aluminium corner)



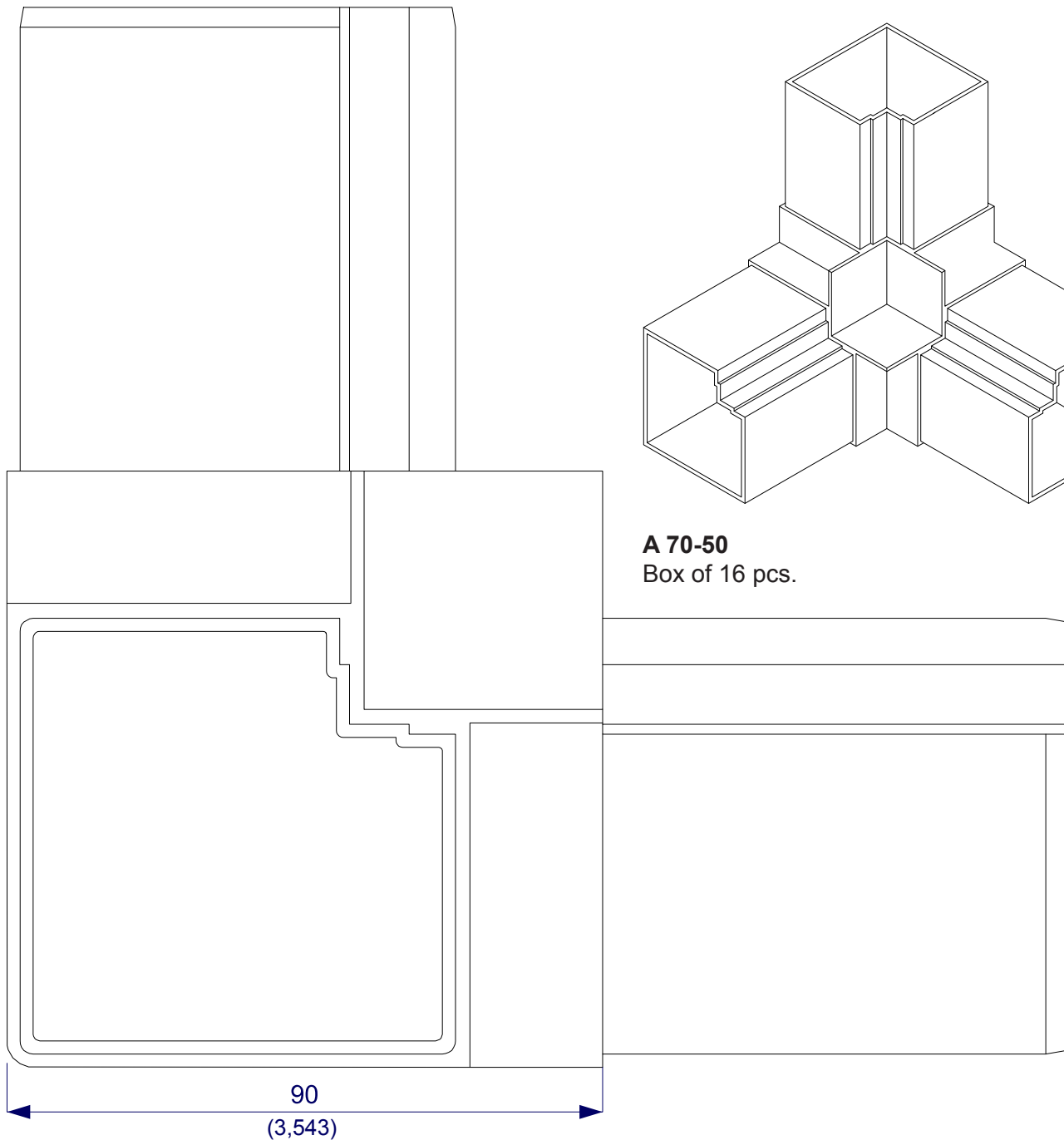
A 70-50 JP
Box of 75 pcs.



Plugs to cover the holes

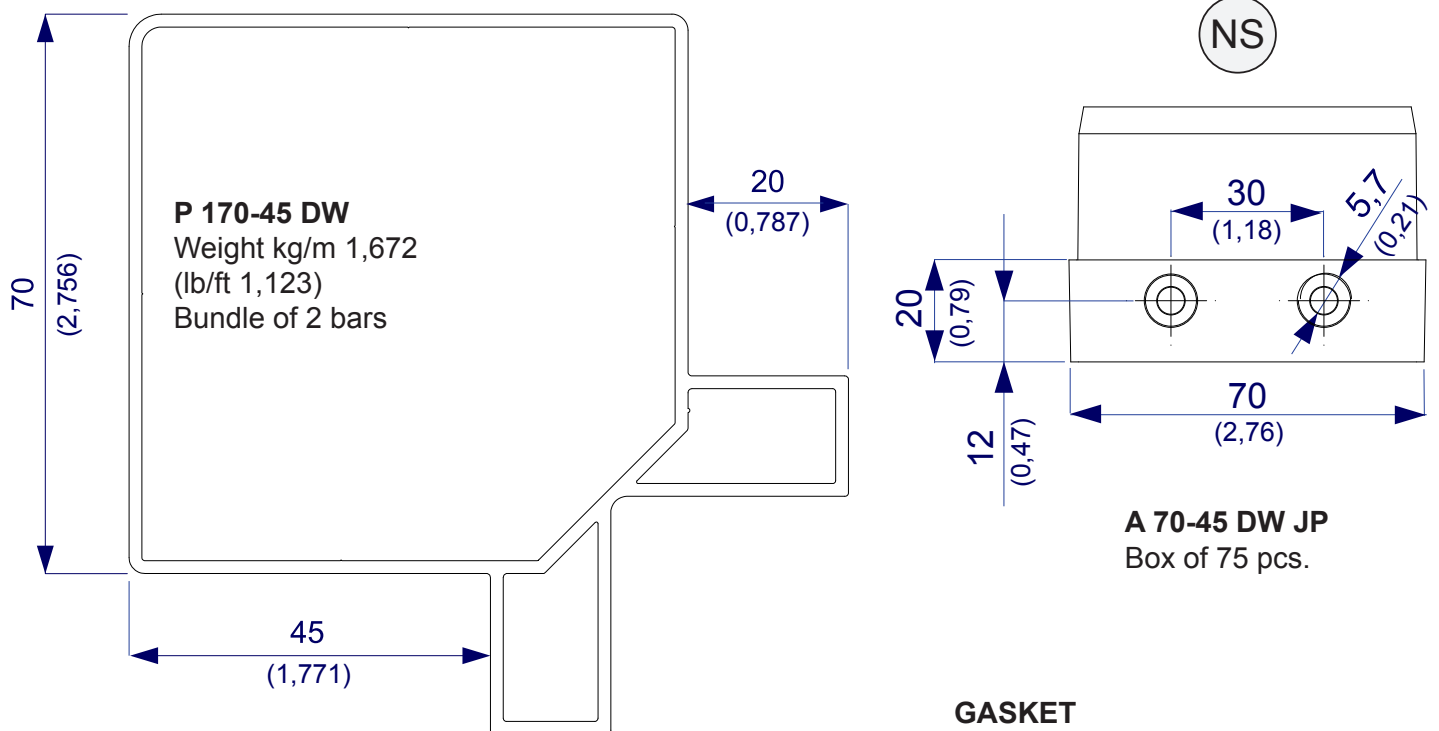


A 70-50
Box of 16 pcs.

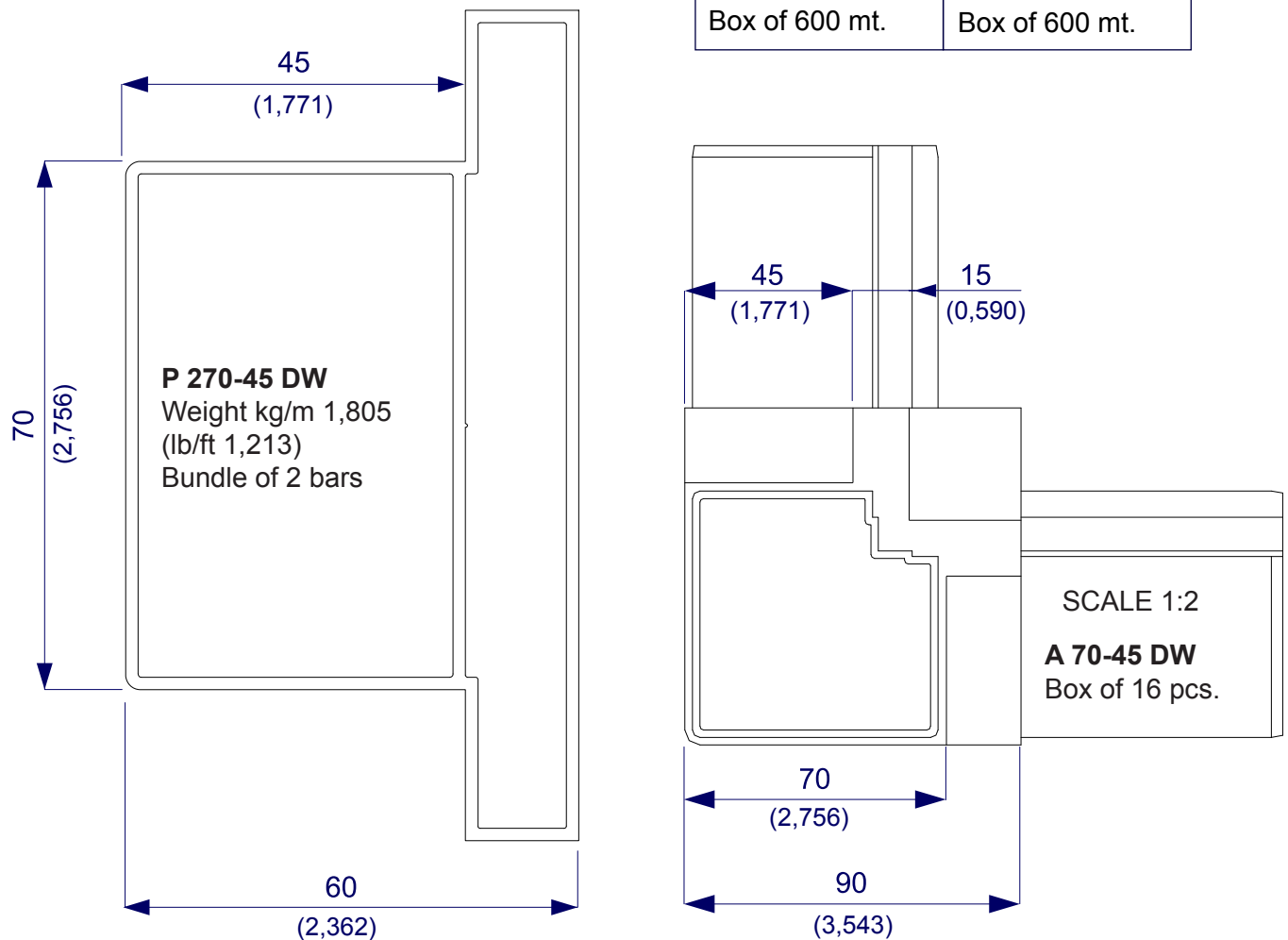
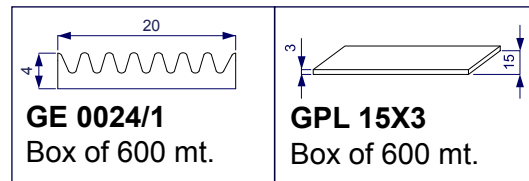


2°) Square profiles section internally rounded, double wall to hide the screws

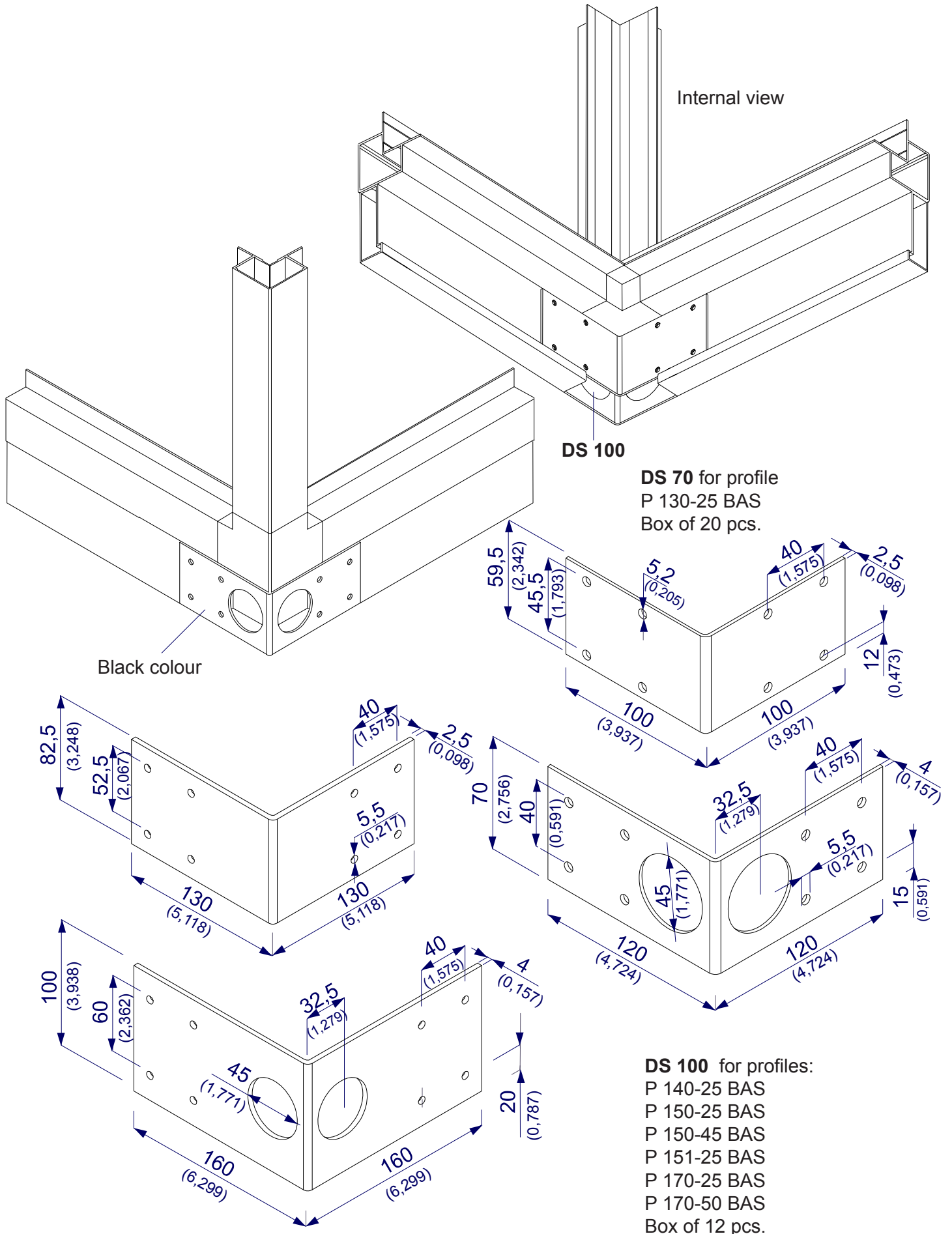
(section 70 panel 45/60 mm; aluminium corner)



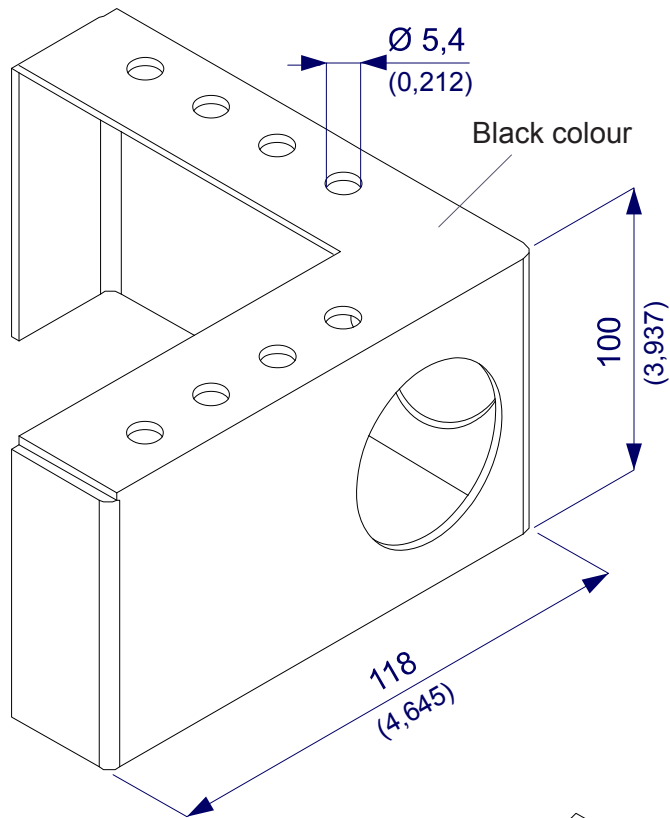
GASKET



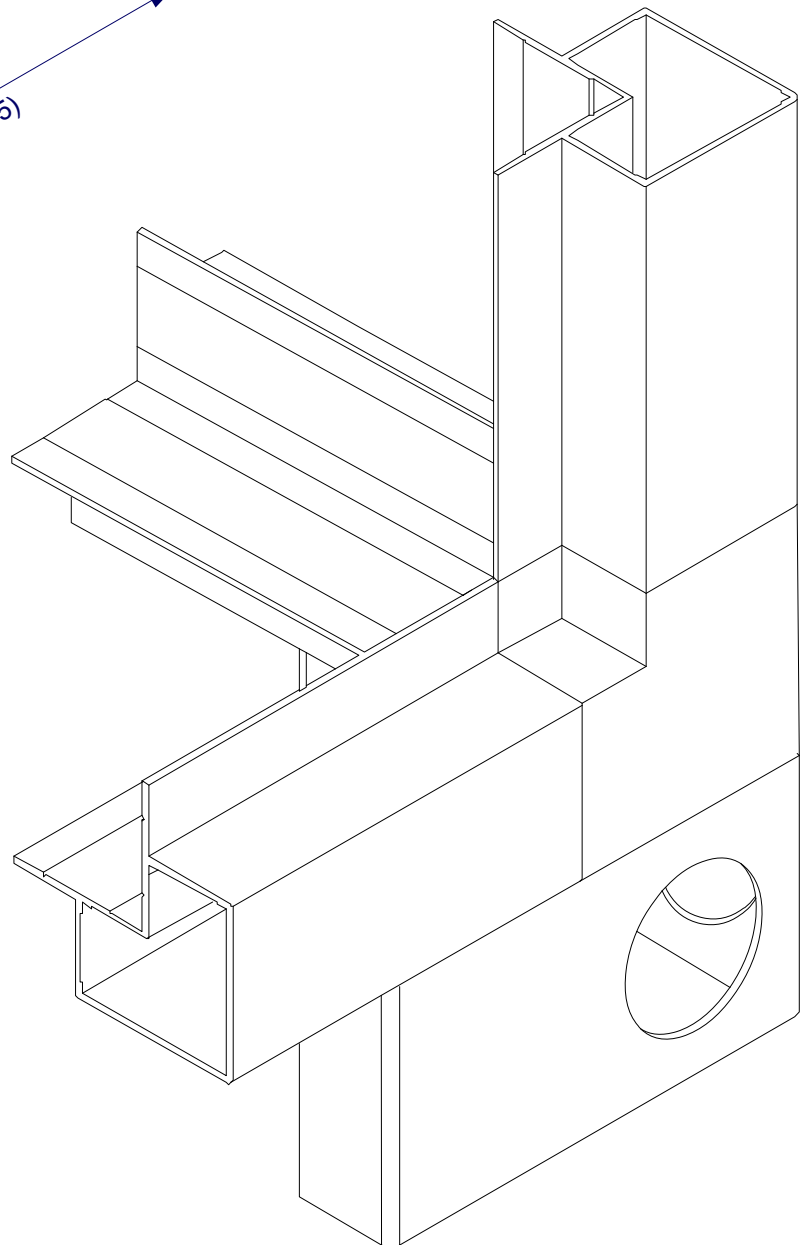
3°) Steel joint for base profiles



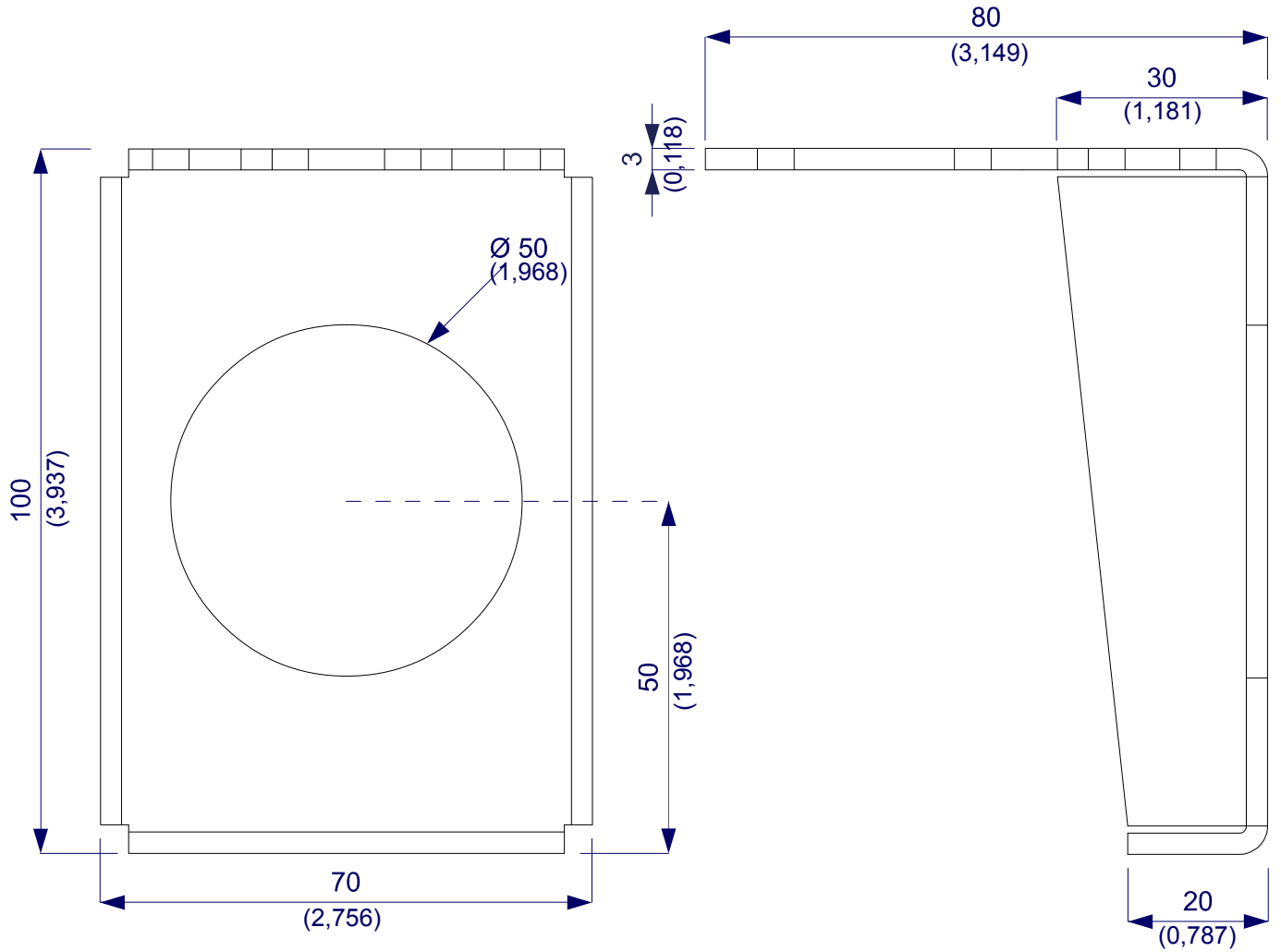
3° Steel foot



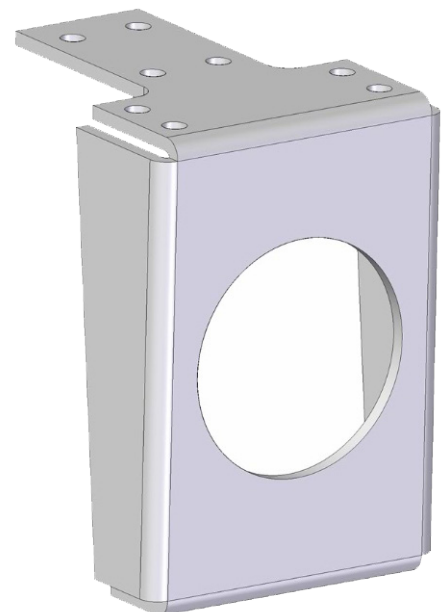
DS 105
Box of 30 pcs.



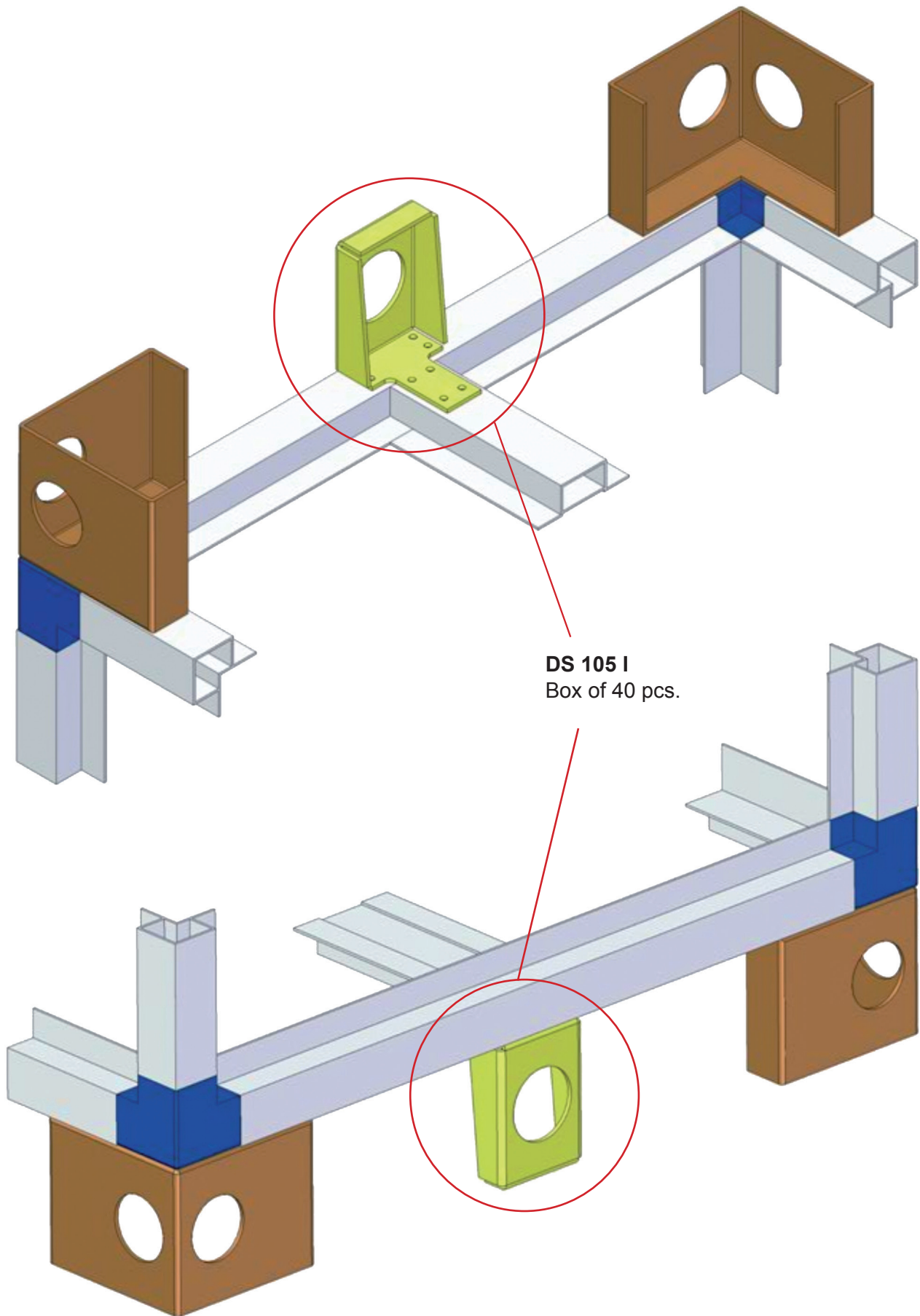
3°) Intermediate steel foot

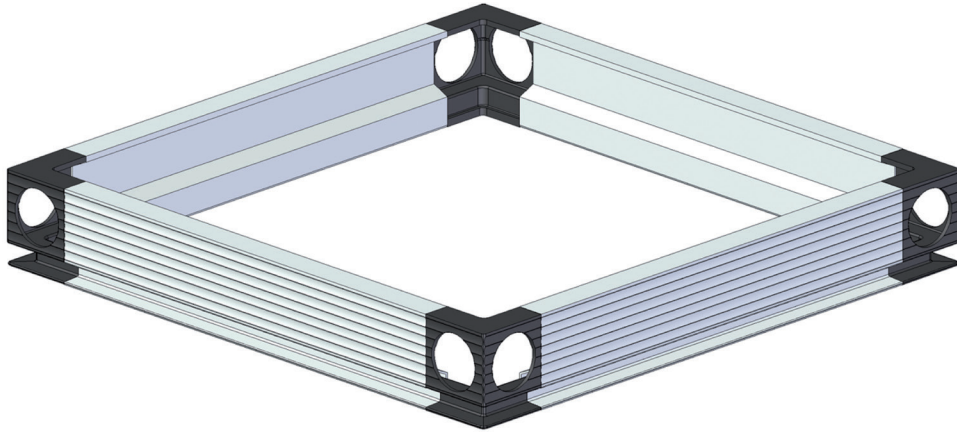


DS 105 I
Box of 40 pcs.

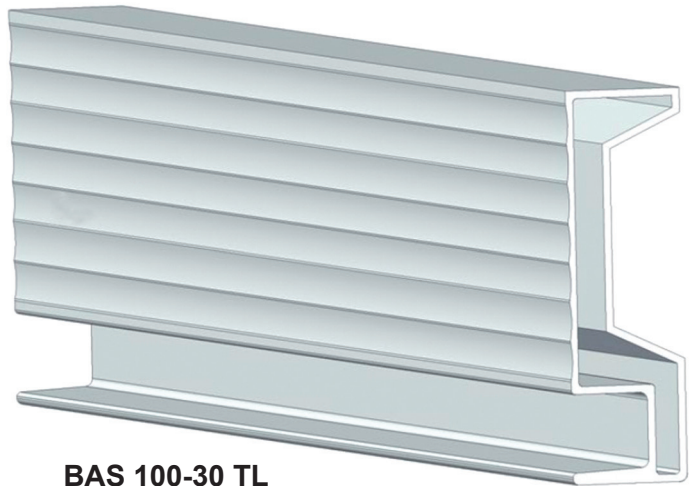


3°) Intermediate steel foot



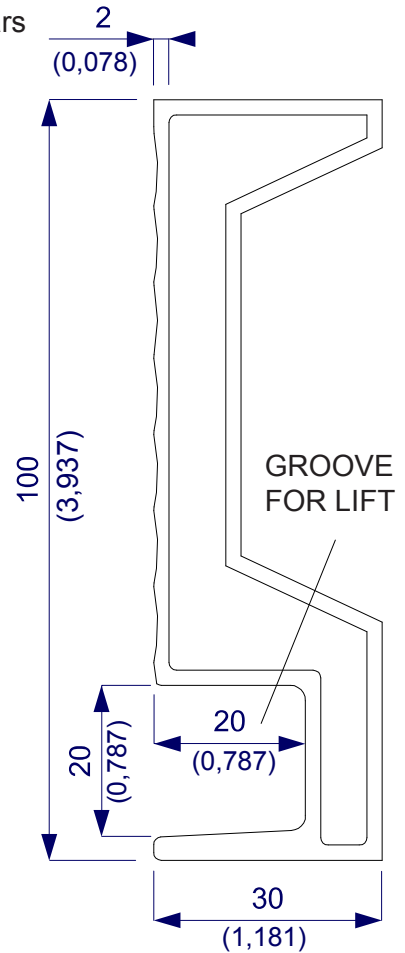
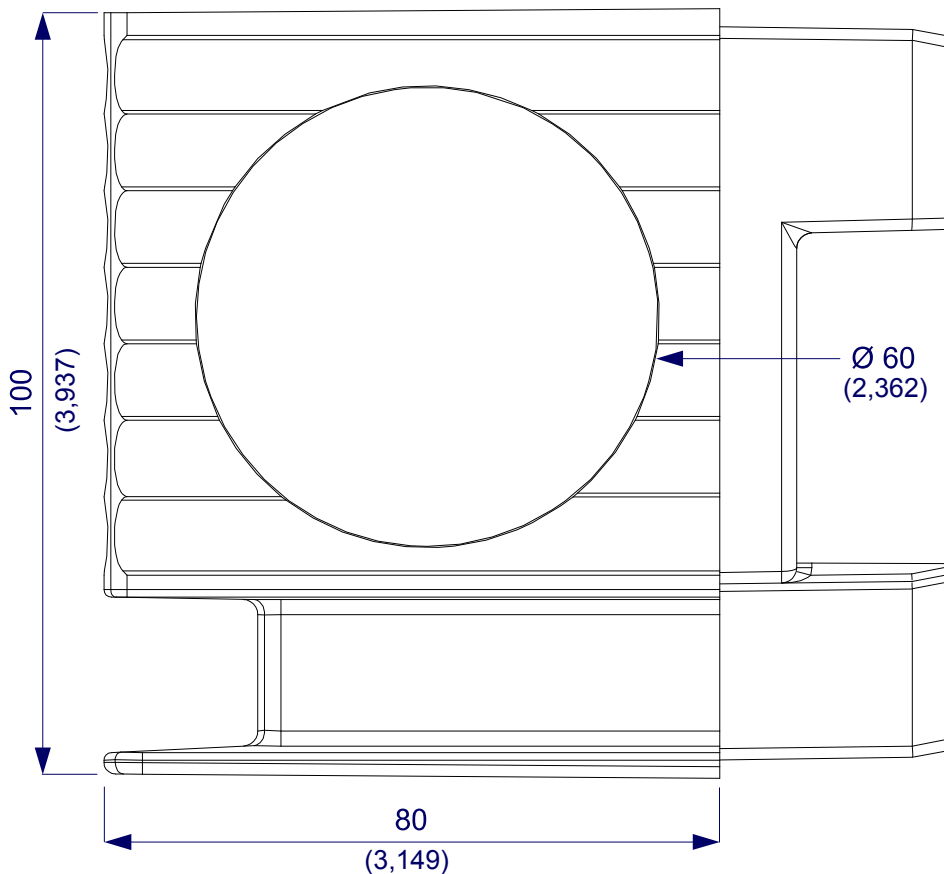


A 100
Box of 50 pcs.

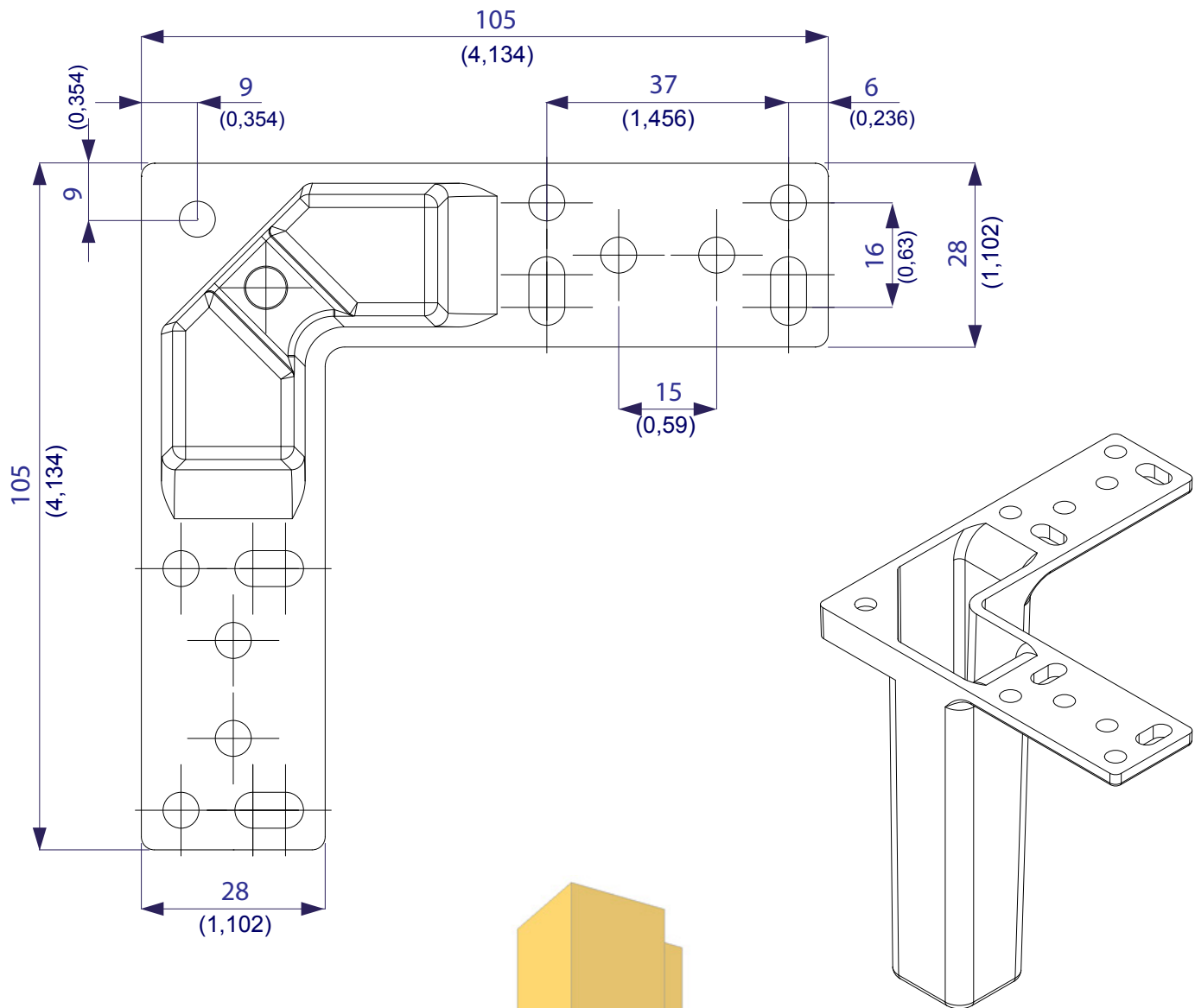


BAS 100-30 TL
Weight kg/m 1,702
(lb/ft 1,144)
Bundle of 2 bars

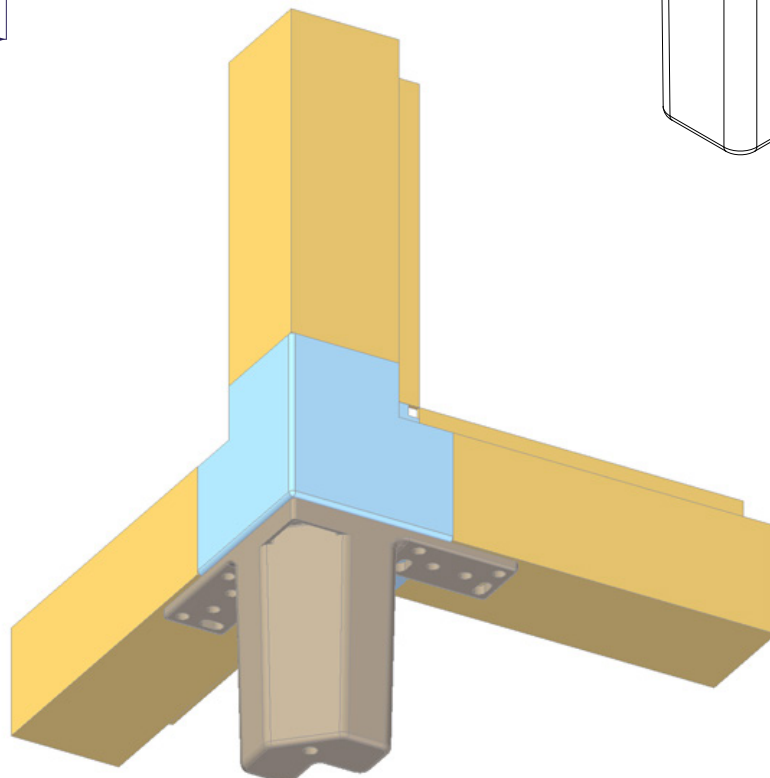
2
(0,078)



Aluminium foot



A 100F
Box of 74 pcs.



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

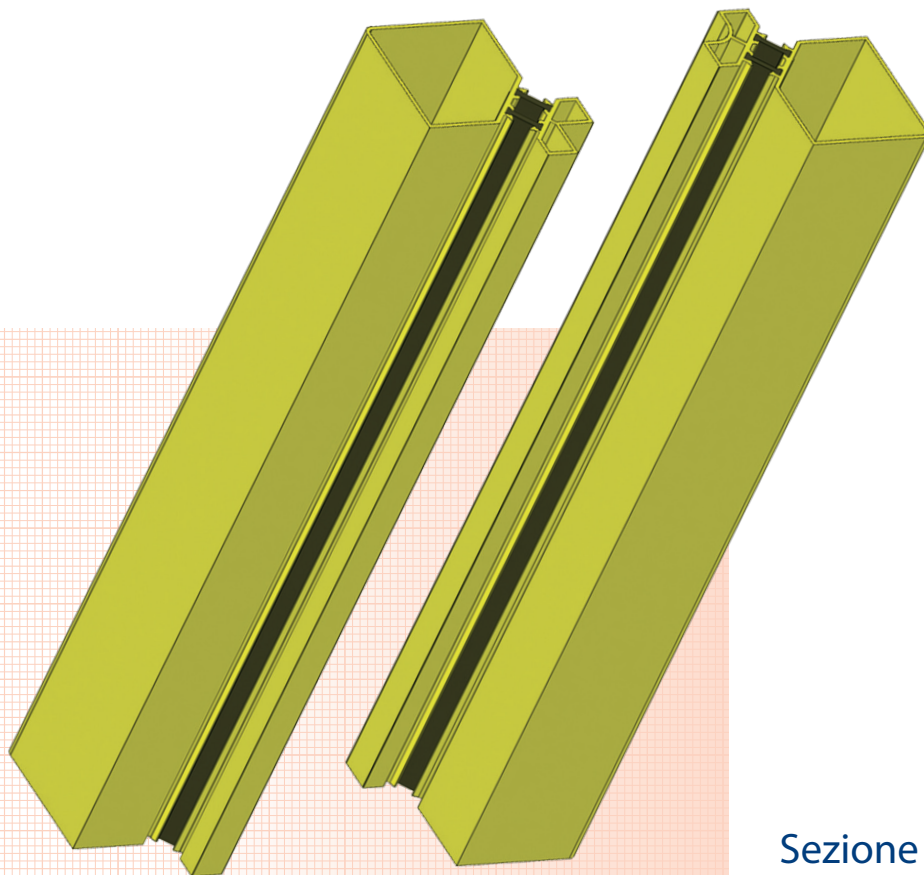
Thermal break modular frame system.

Système modulaire composé par profiles et 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

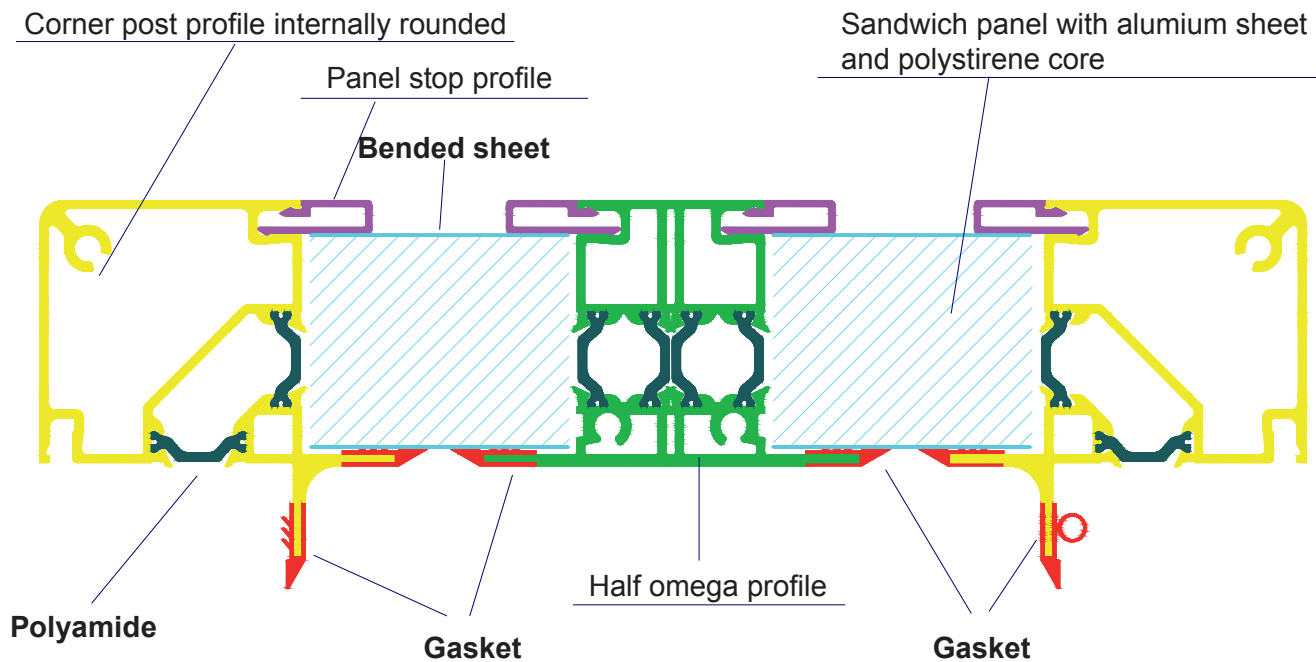
05

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).

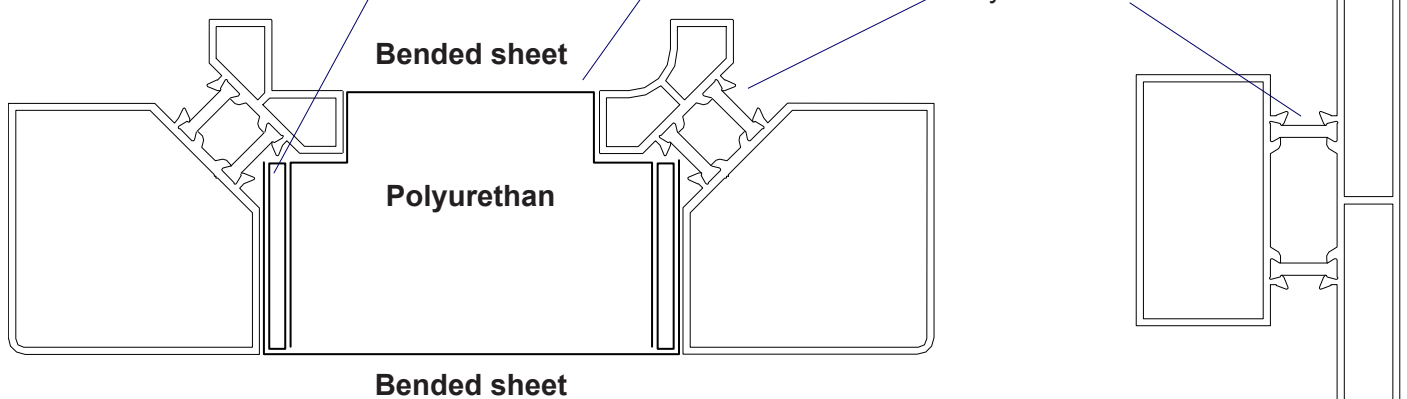
It is also available a thermal break system with PVC profiles to build thermal break frames with different sizes than those you obtain with the pre-assembled profiles series.



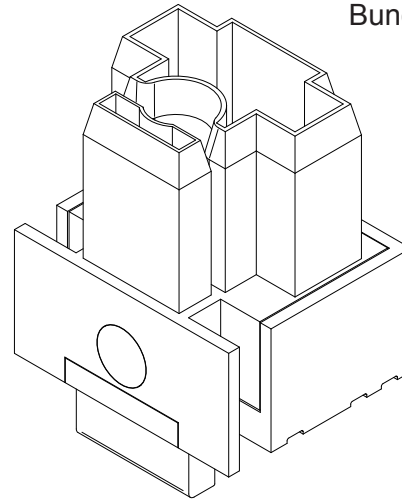
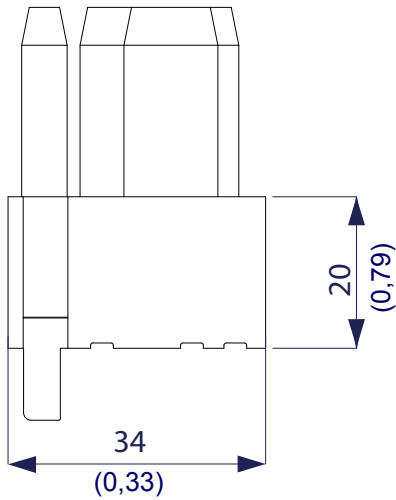
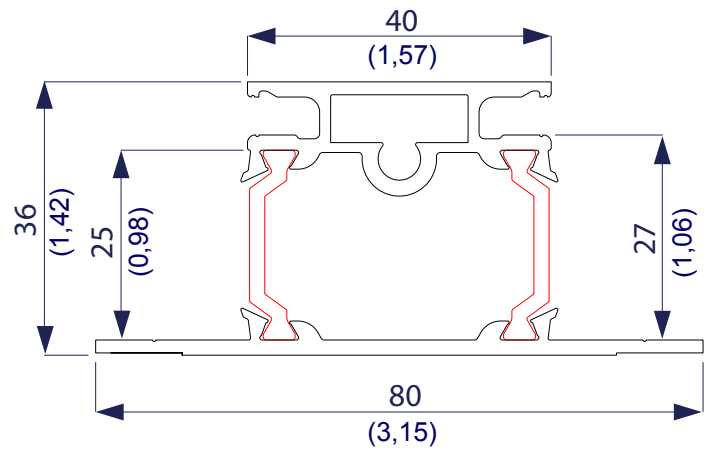
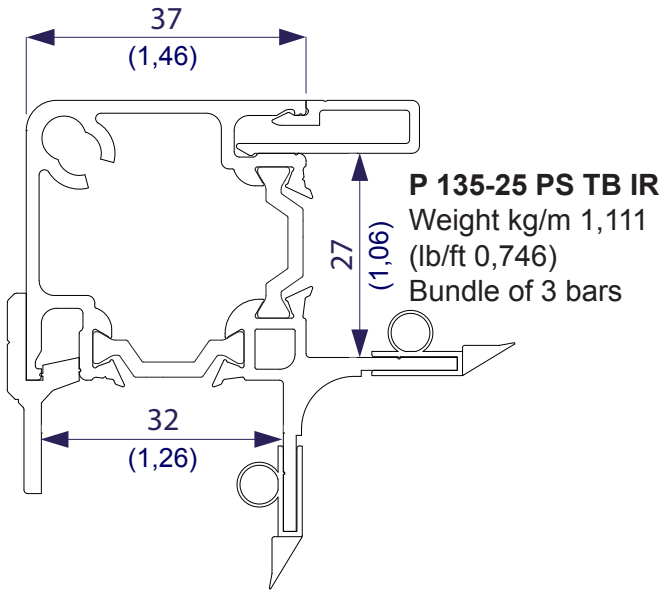
Bars of insulating material (PVC, nylon) to isolate the panel

Double height panel (bended steel) with polyurethan or rockwool

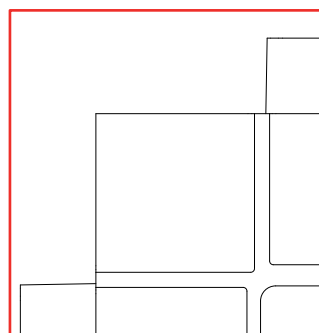
Polyamide



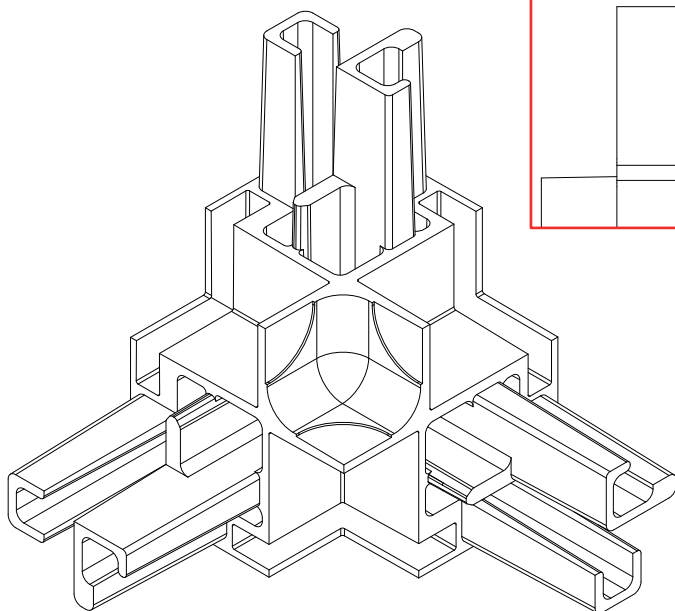
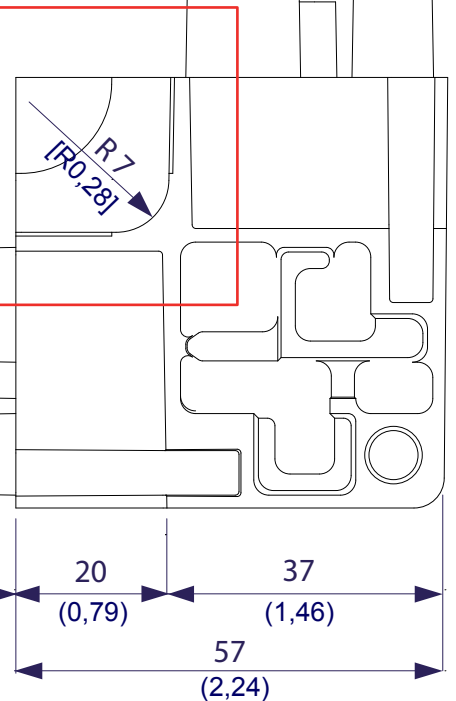
Square profiles (section 35 panel 25/30 mm; nylon corner)
Pre-assembled thermal break profile with polyamide



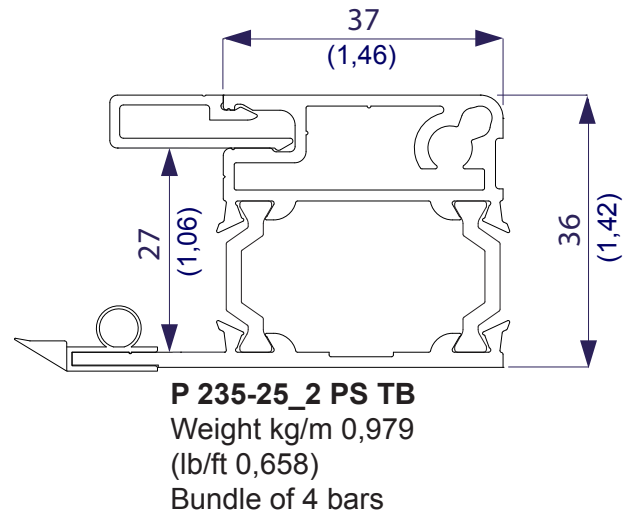
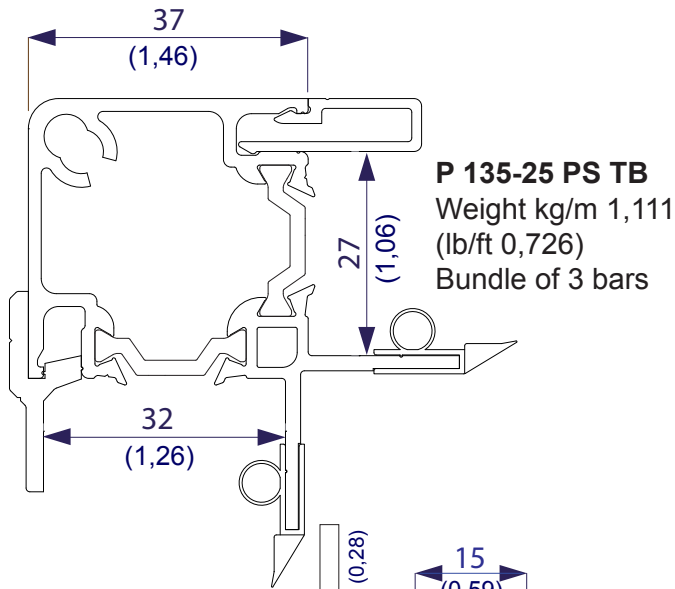
N 35-25
Box of 80 pcs.



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

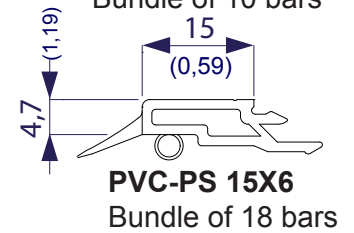
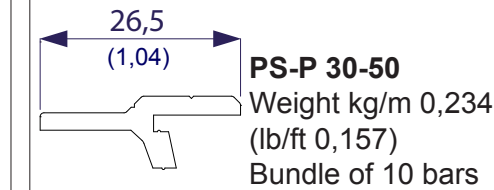
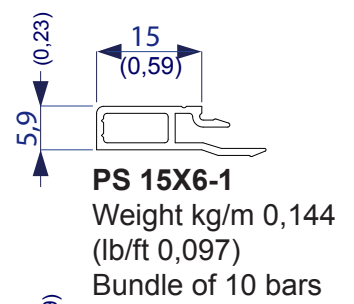
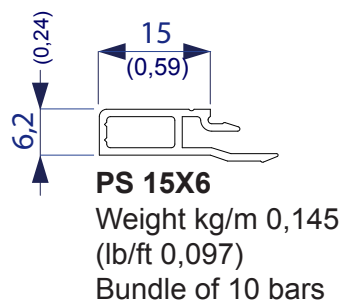
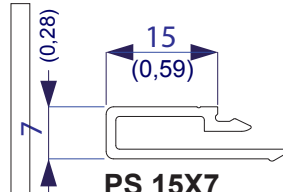


GASKET

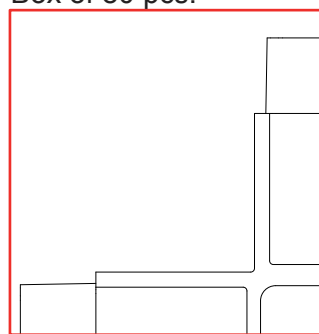
G002
Bundle of 100 mt.

GS-20
Box of 1.000 pcs.

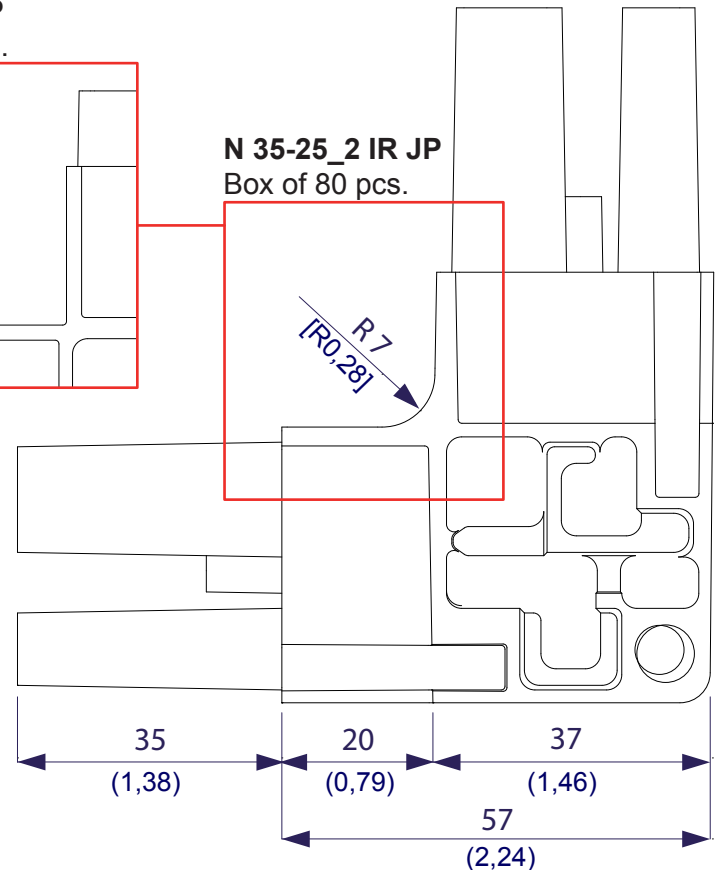
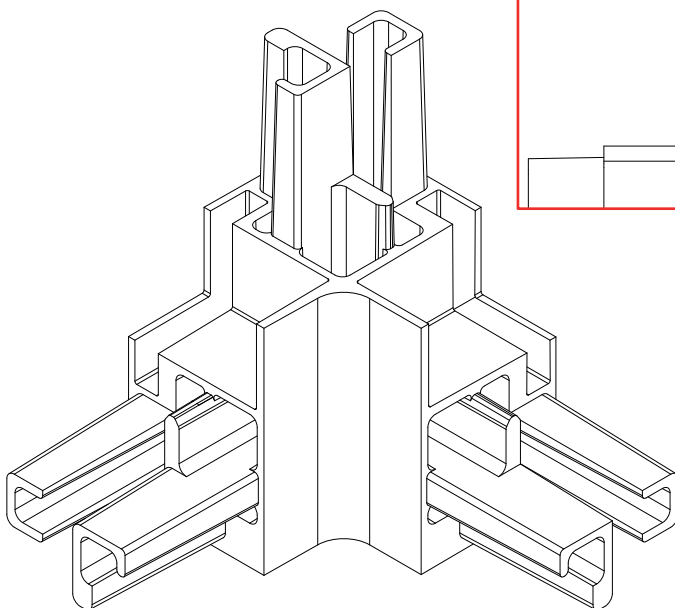
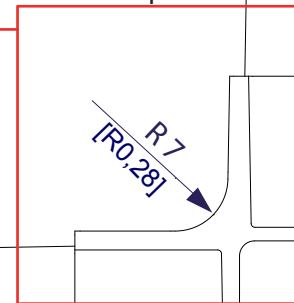
PVC PS C
Bundle of 120 mt.



N 35-25_2 JP
Box of 80 pcs.



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



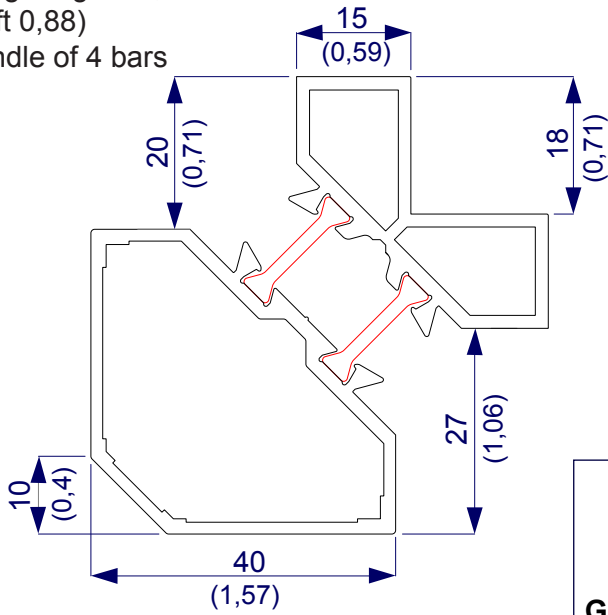
Blunted profiles (section 40 panel 25/40 mm; nylon corner)
Pre-assembled thermal break profile with polyamide

S 1400/25-10 TB

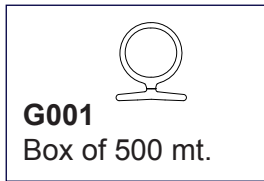
Weight Kg/m 1,32

(lb/ft 0,88)

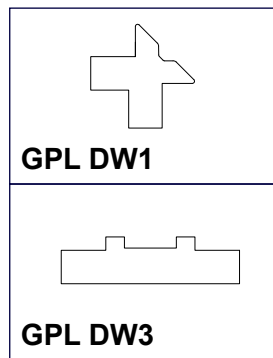
Bundle of 4 bars



GASKET

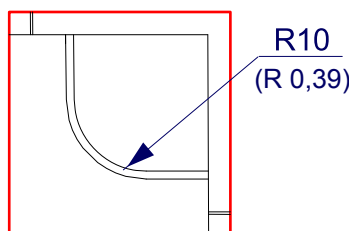


GASKET



SN 40/25-10 DW IR

Box of 76 pcs.

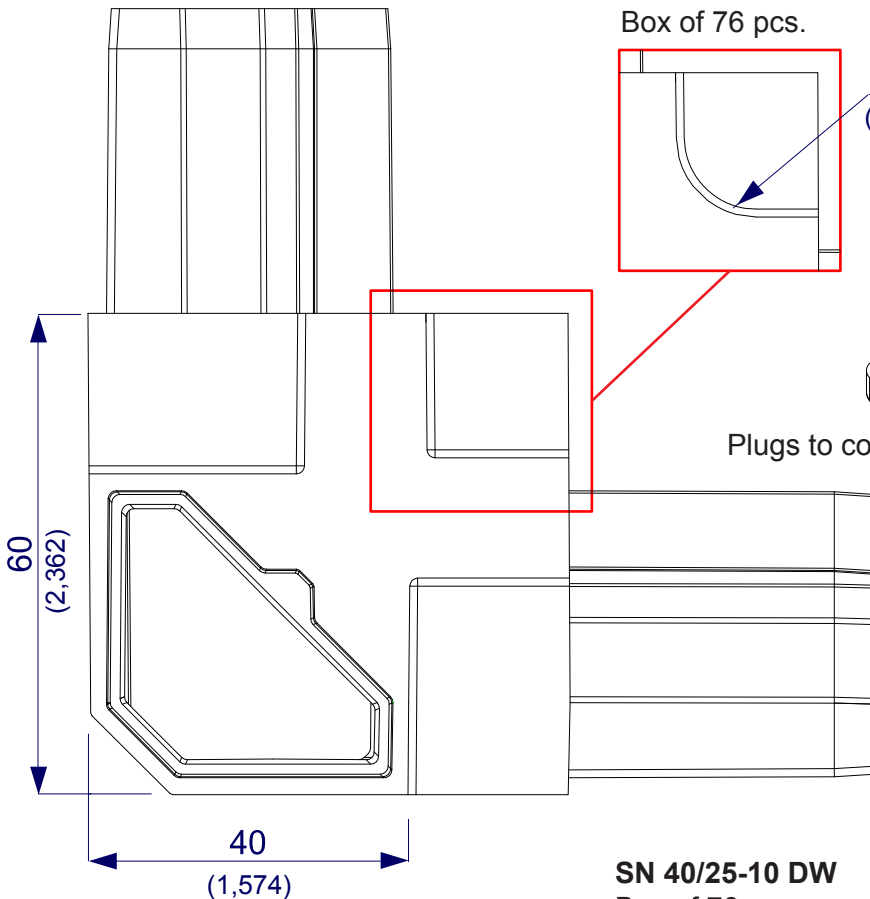


Plugs to cover the holes



SN 40/25-10 DW

Box of 76 pcs.

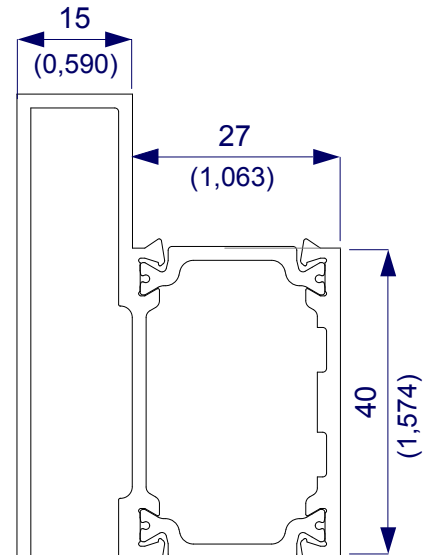
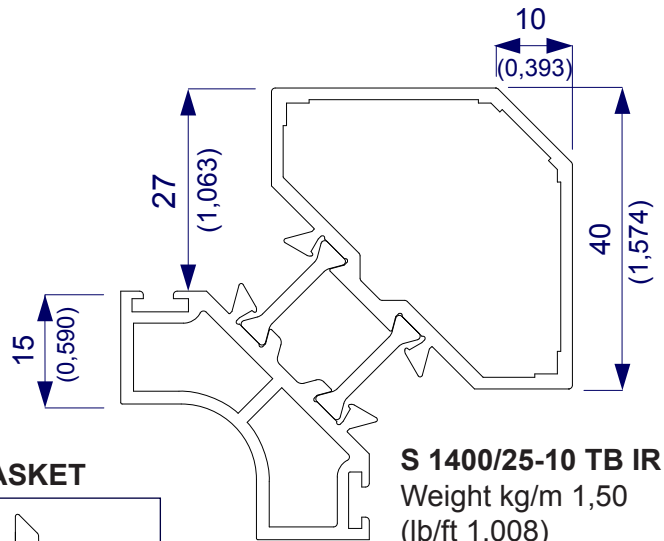


S 1400/25-10 TB IR

Weight kg/m 1,50

(lb/ft 1,008)

Bundle of 3 bars

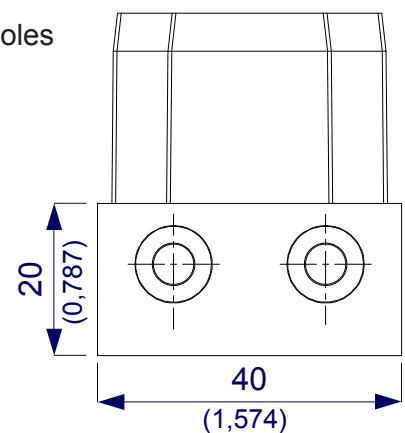


P 240-25 TB

Weight kg/m 1,649

(lb/ft 1,108)

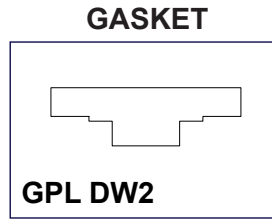
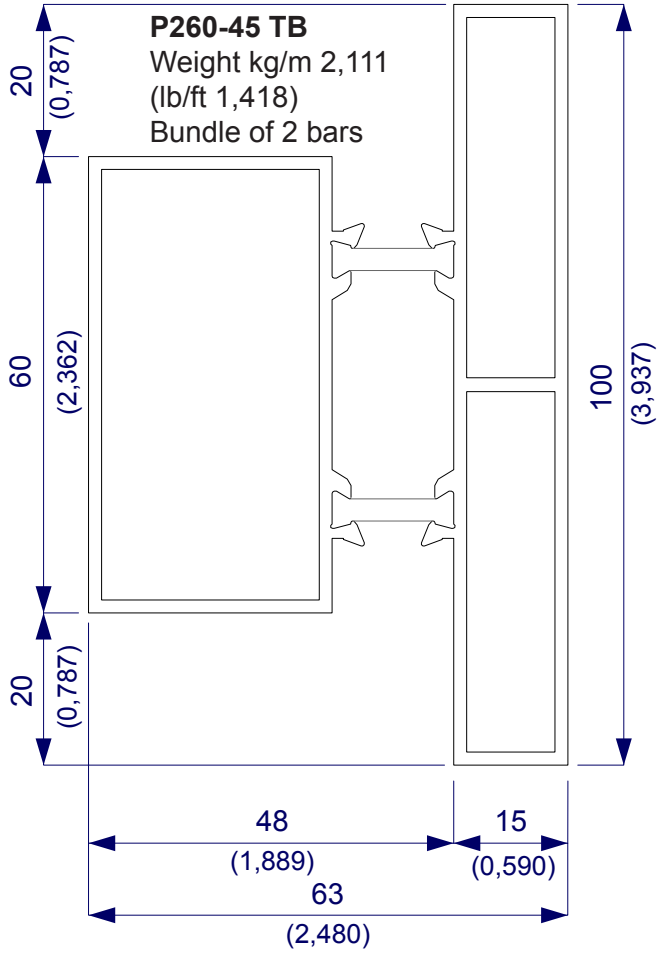
Bundle of 2 bars



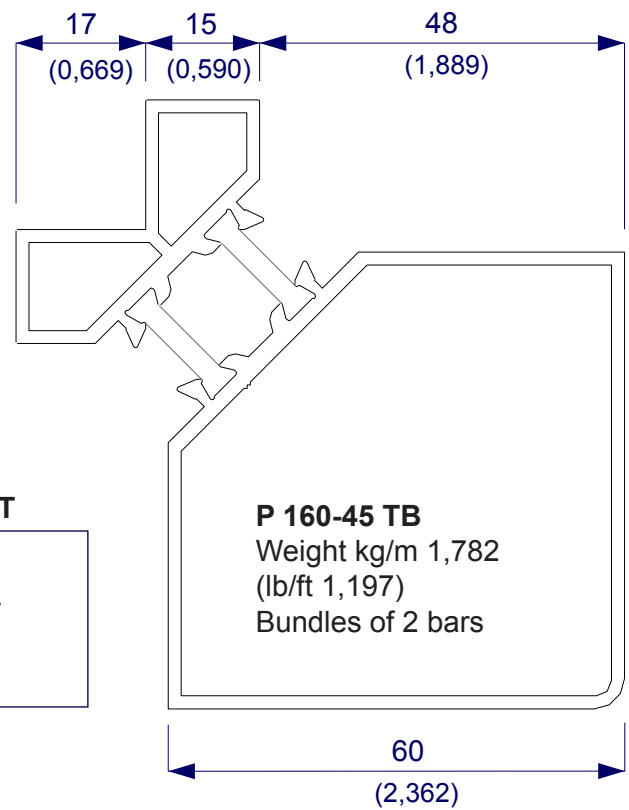
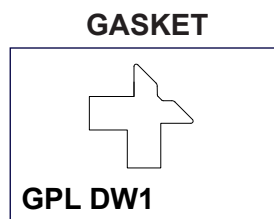
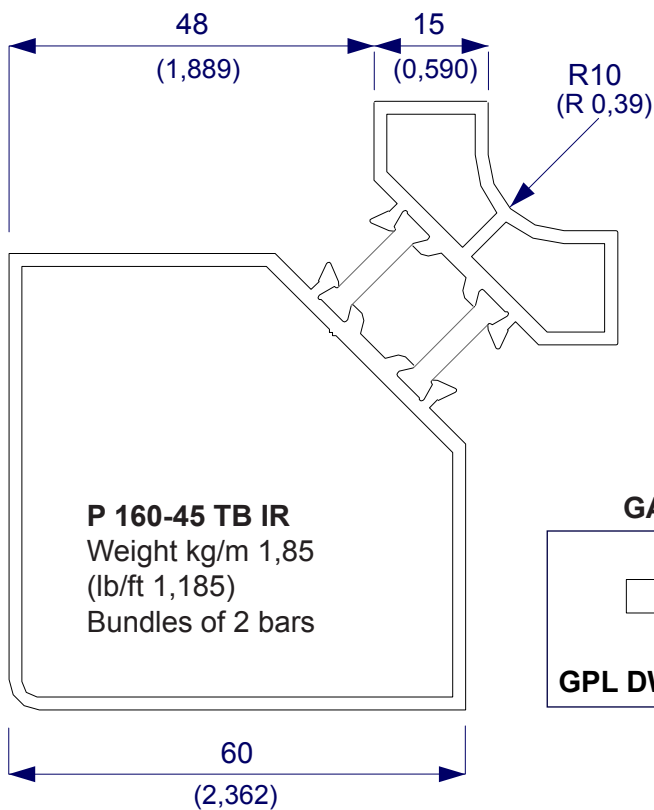
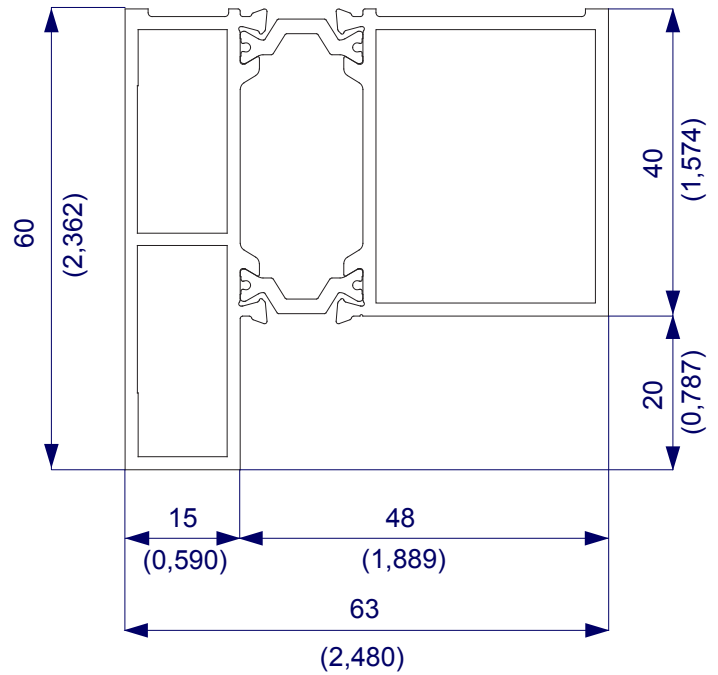
N 40 JP

Box of 200 pcs.

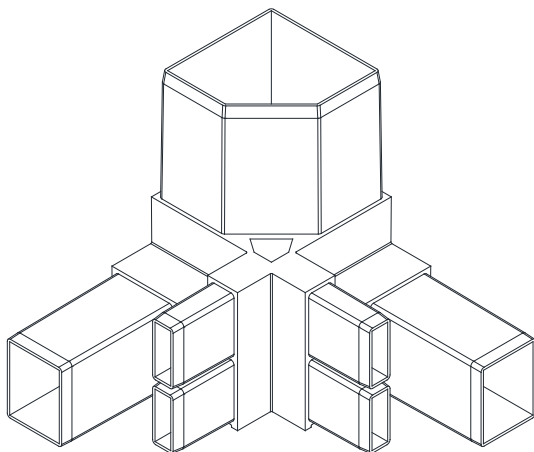
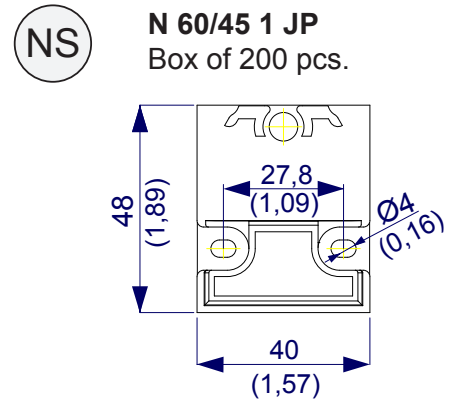
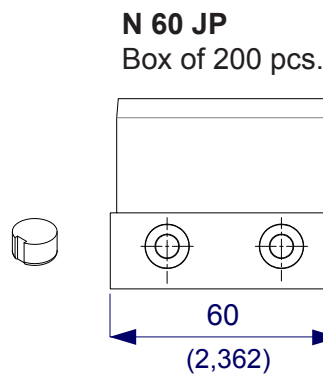
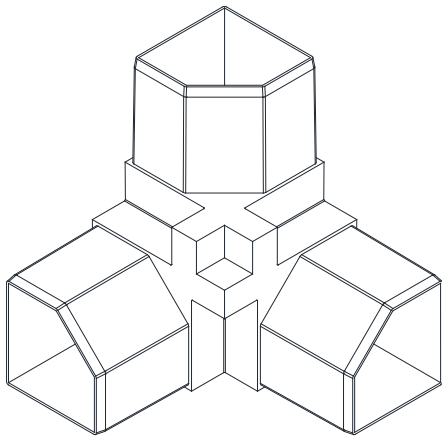
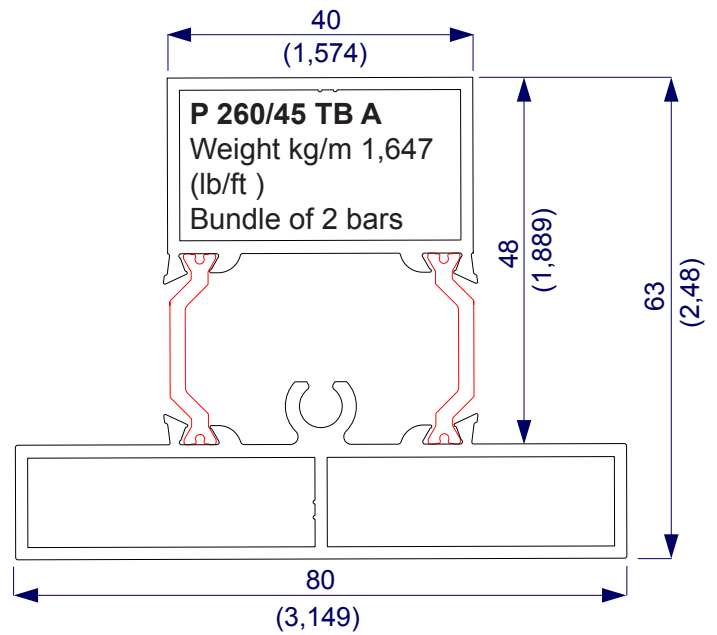
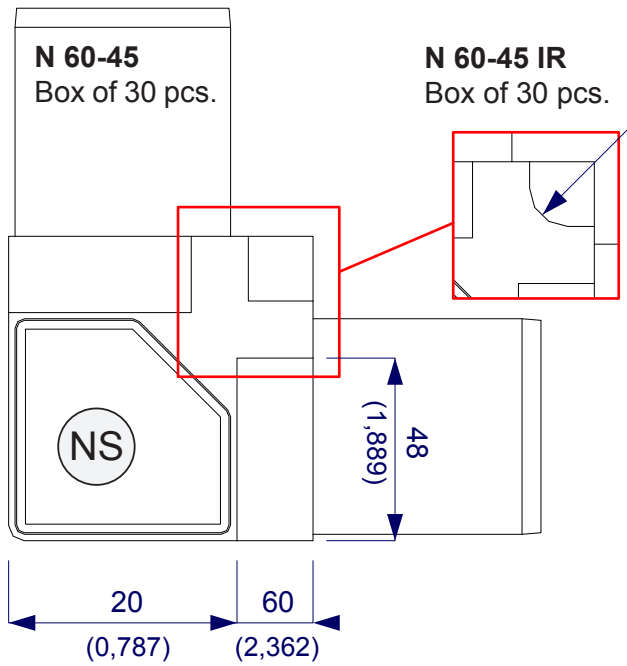
Square profiles (section 60 panel 45/60 mm; nylon corner)
Pre-assembled thermal break profile with polyamide



P260-45_2 TB
Weight kg/m 1,505
(lb/ft 0,991)
Bundle of 2 bars

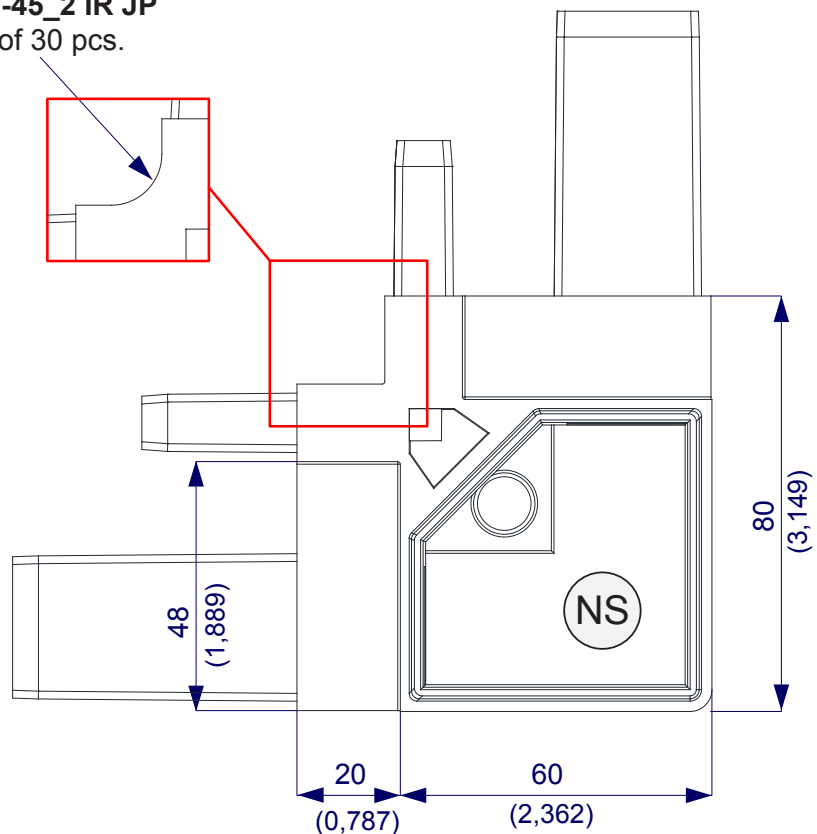


Square profiles (section 60 panel 45/60 mm; nylon corner)
Pre-assembled thermal break profile with polyamide

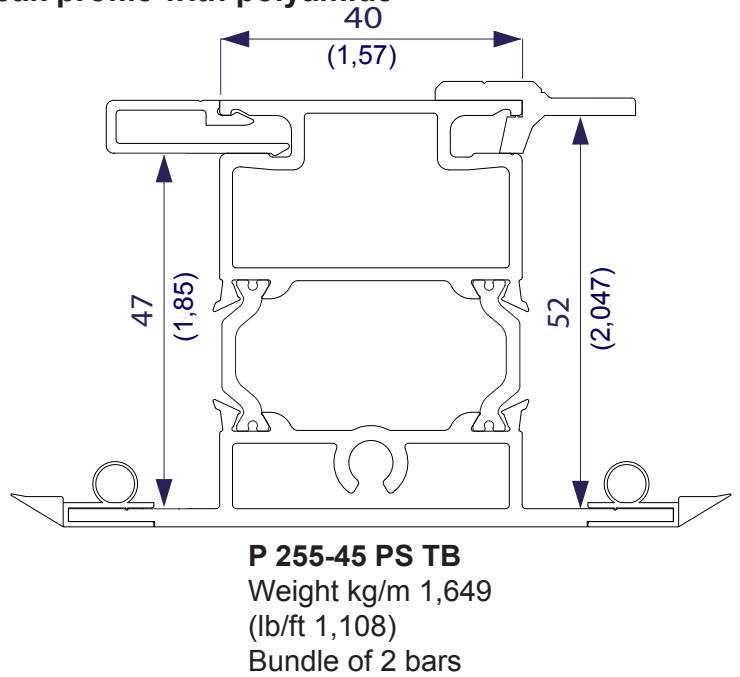
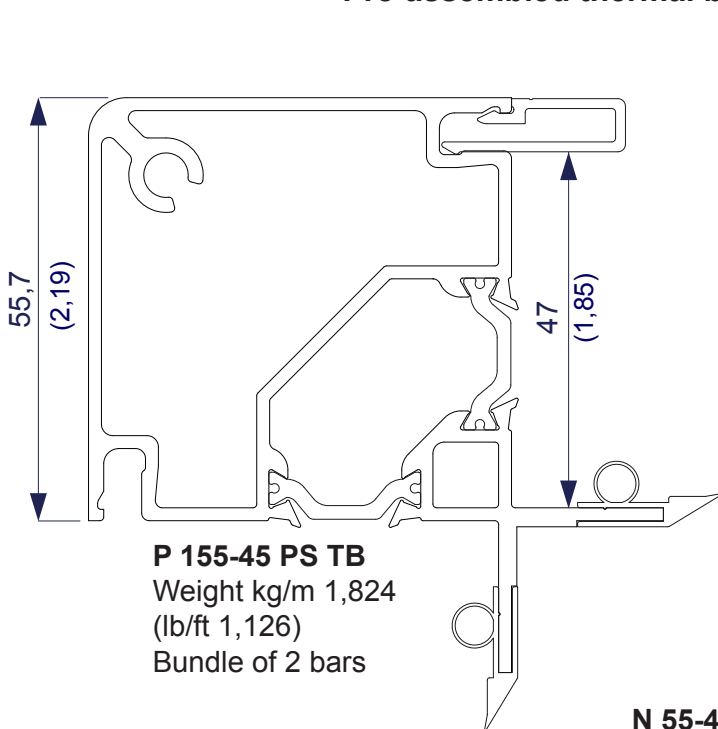


N 60-45_2 JP
Box of 30 pcs.

N 60-45_2 IR JP
Box of 30 pcs.



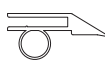
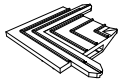

Square profiles (section **55** panel **45/50** mm; nylon corner)
Pre-assembled thermal break profile with polyamide

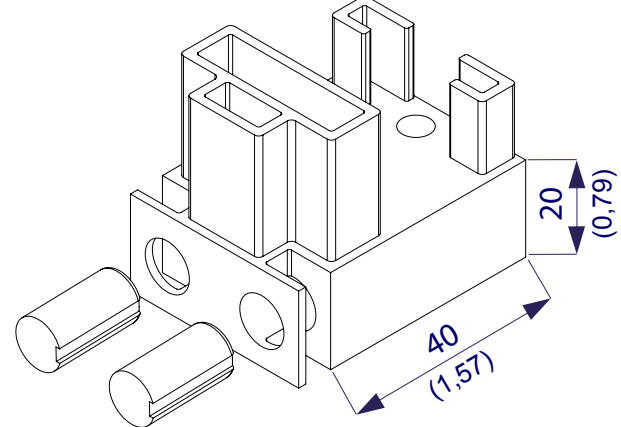
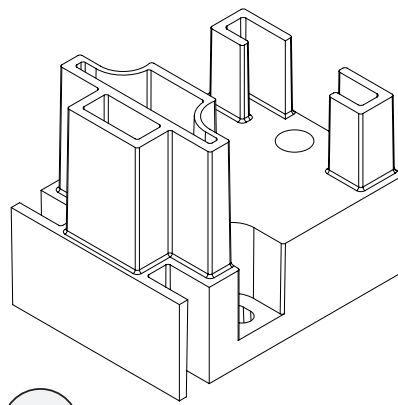


N 55-45-1 JP
Box of 112 pcs.

N 55-45 JP
Box of 112 pcs.

GASKET

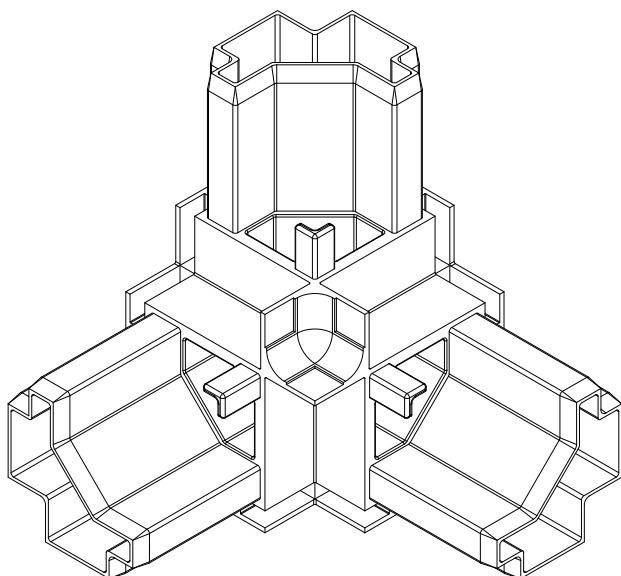
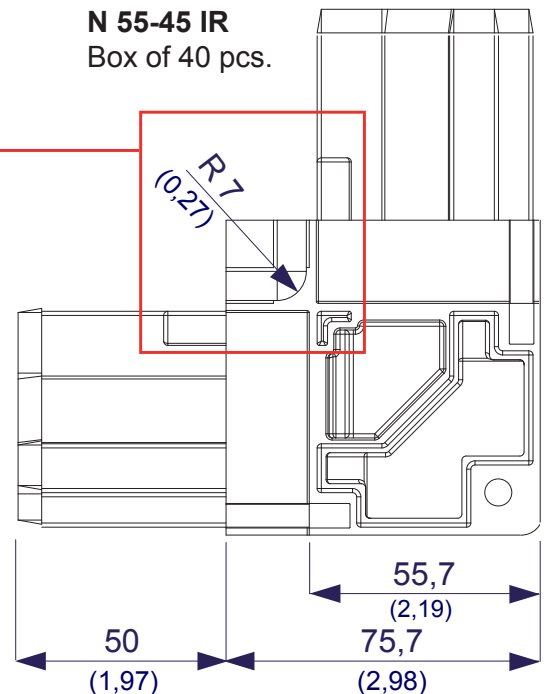
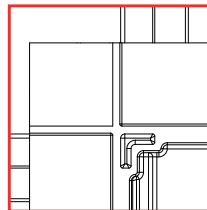

G002 Bundles of 100 mt.

GS-20 Box of 1.000 pcs.

PVC PS C Bundles of 120 mts.



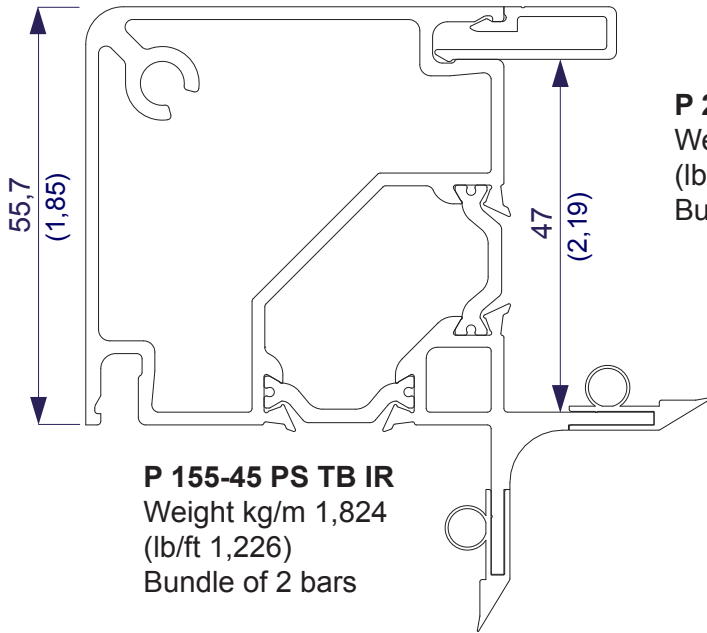
NS

N 55-45
Box of 40 pcs.

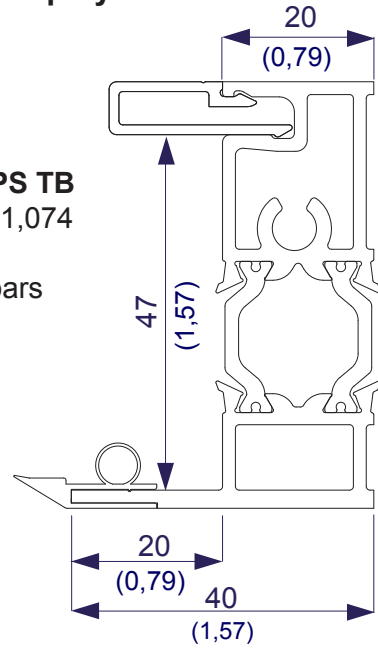
N 55-45 IR
Box of 40 pcs.

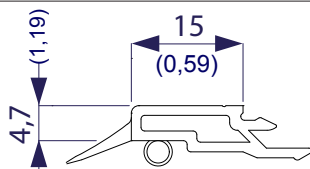
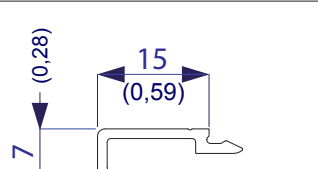
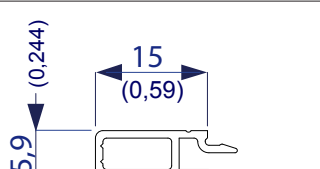
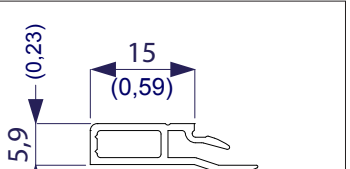
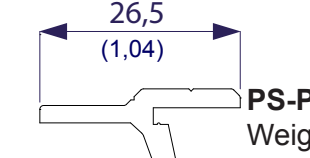


Square profiles (section 55 panel 45/50 mm; nylon corner)
Pre-assembled thermal break profile with polyamide

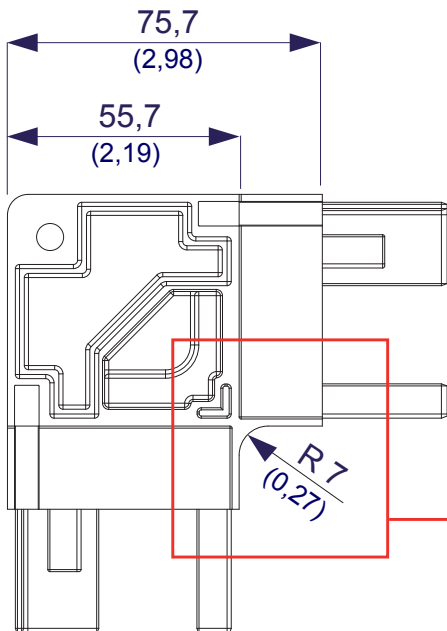


P 255-45_2 PS TB
Weight kg/m 1,074
(lb/ft 0,722)
Bundle of 2 bars



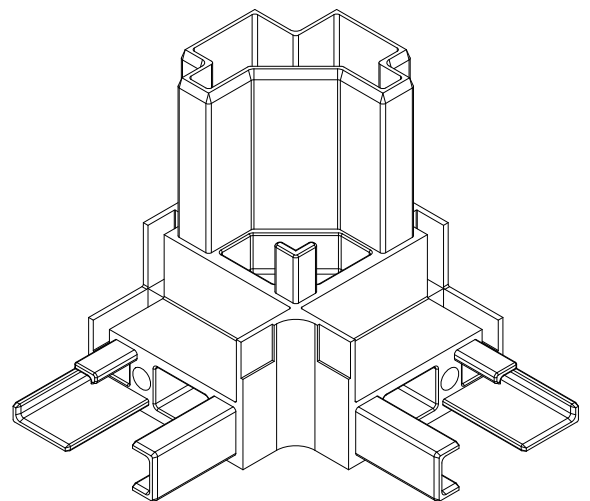
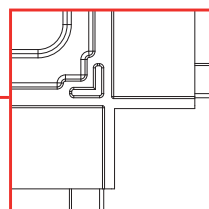
 <p>PVC-PS 15x6 Bundle of 18 bars</p>	 <p>PS 15X7 Weight kg/m 0,179 (lb/ft 0,120) Bundle of 10 bars</p>	 <p>PS 15X6 Weight kg/m 0,145 (lb/ft 0,097) Bundle of 10 bars</p>	 <p>PS 15X6-1 Weight kg/m 0,144 (lb/ft 0,097) Bundle of 10 bars</p>
 <p>PS-P 30-50 Weight kg/m 0,234 (lb/ft 0,942) Bundle of 10 bars</p>			

N 55-45_2 IR JP
Box of 80 pcs.

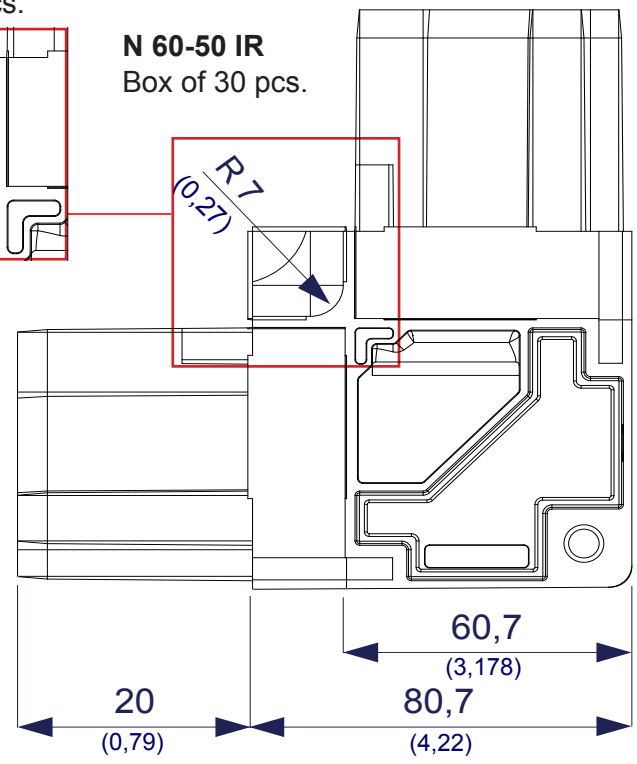
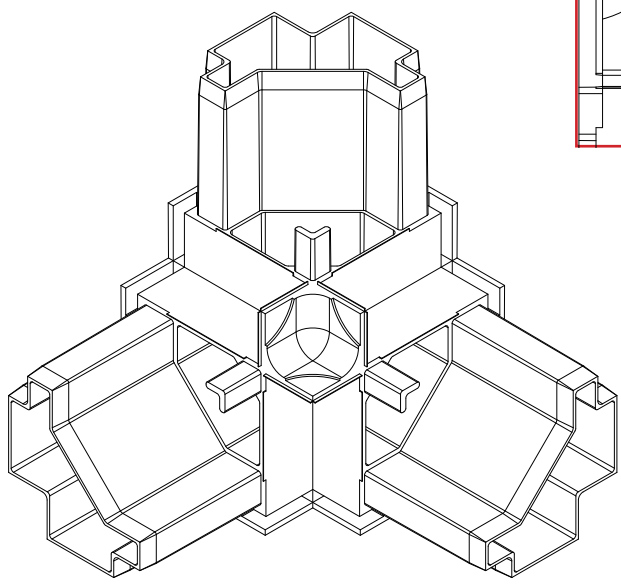
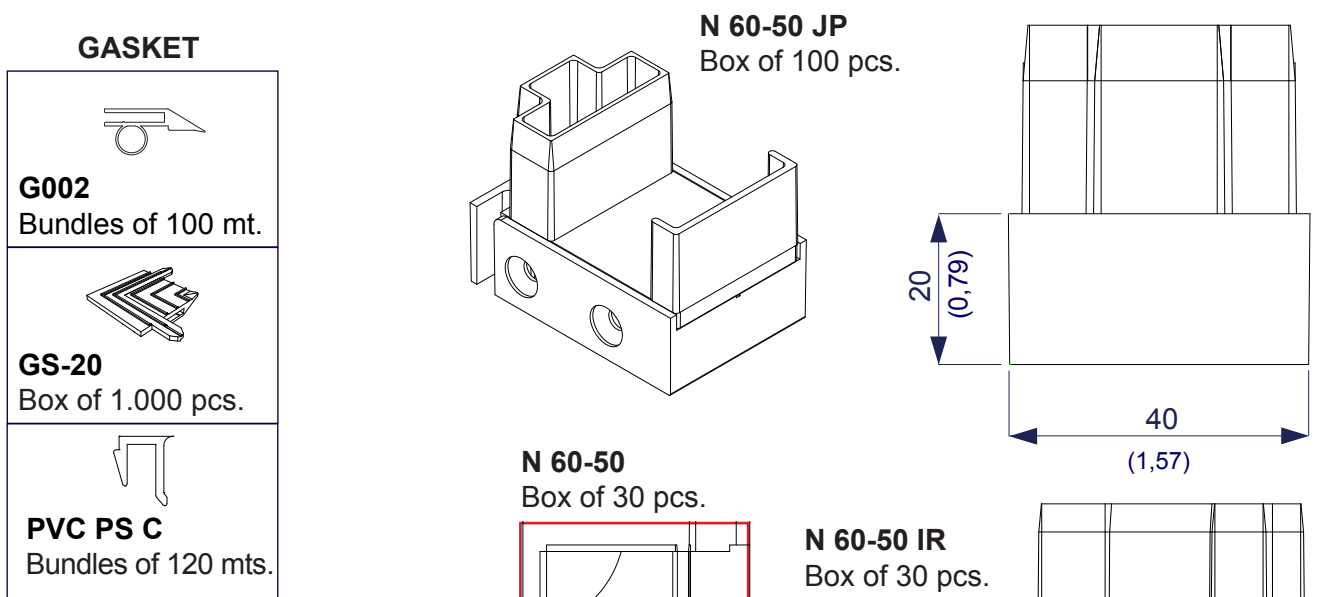
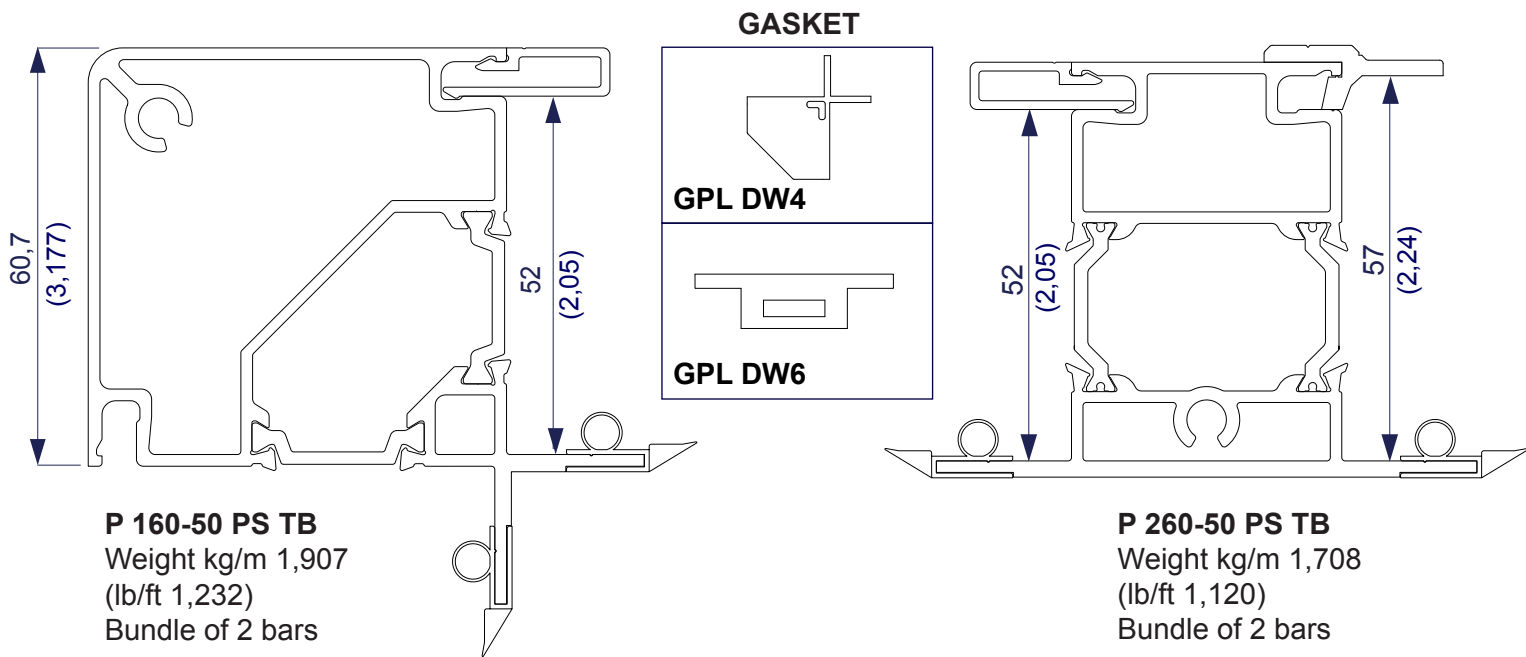


NS

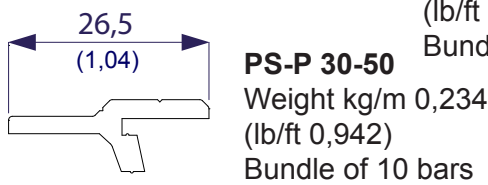
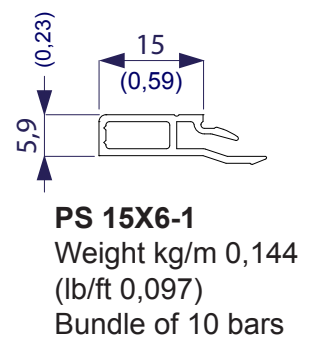
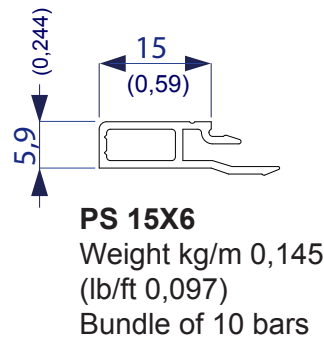
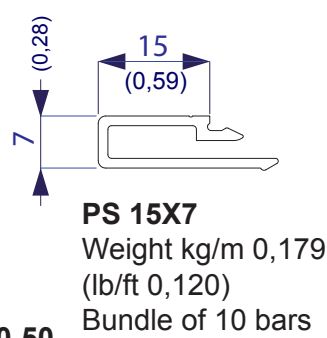
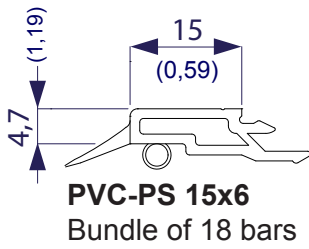
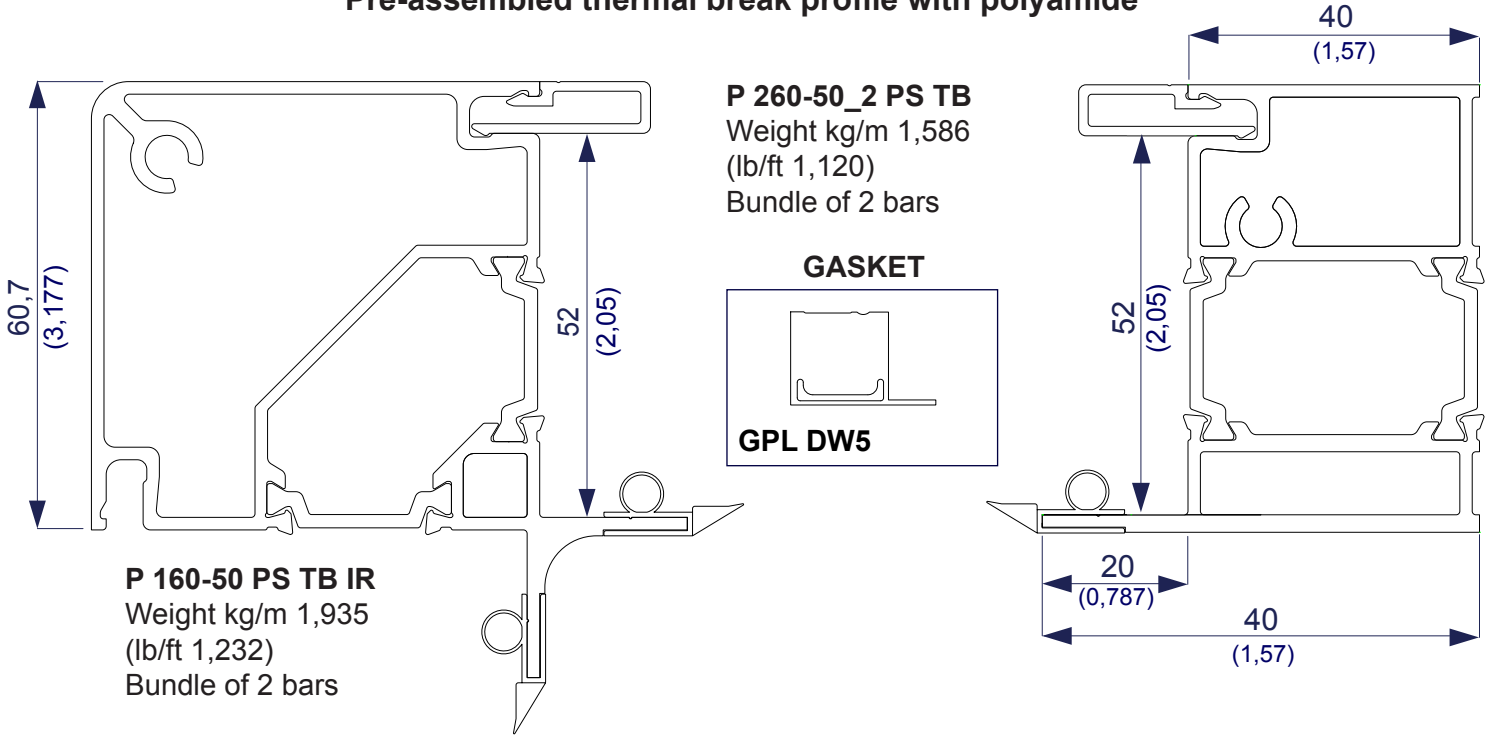
N 55/45_2 JP
Box of 80 pcs.



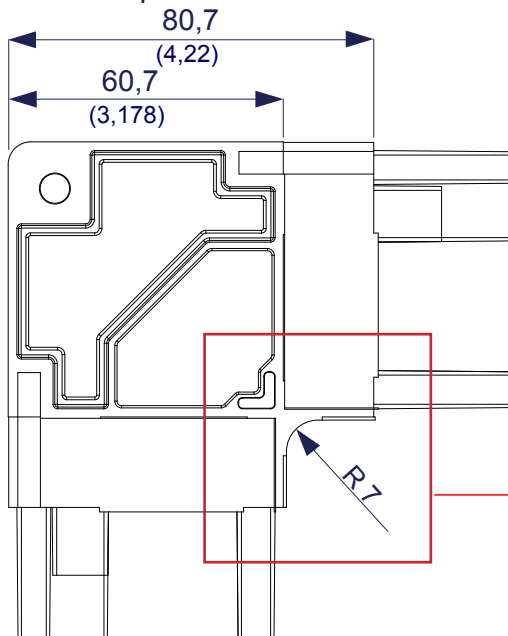
Square profiles (section **60** panel **50/55** mm; nylon corner)
Pre-assembled thermal break profile with polyamide



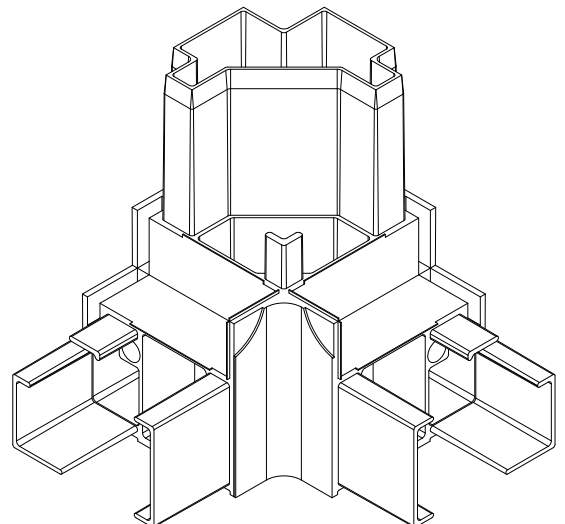
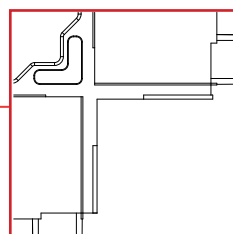
Square profiles (section 60 panel 50/55 mm; nylon corner)
Pre-assembled thermal break profile with polyamide



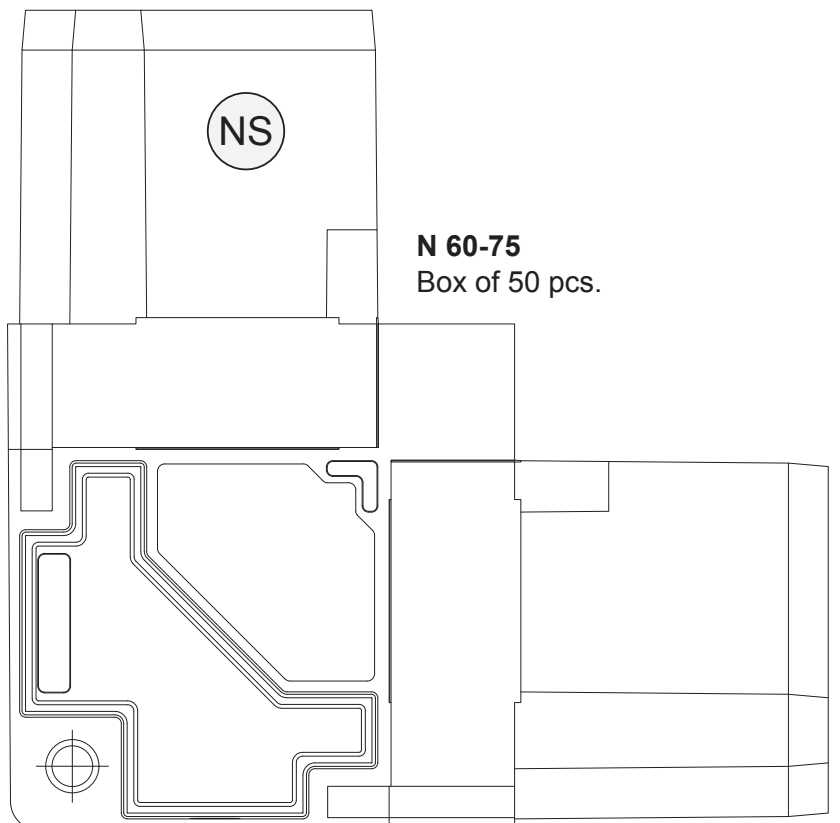
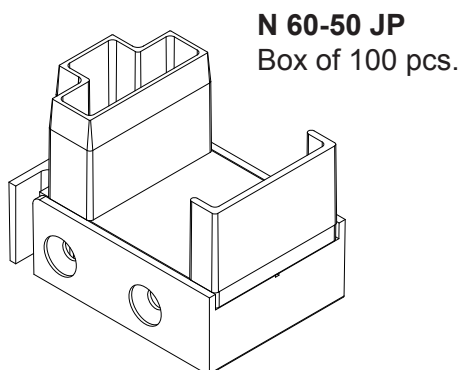
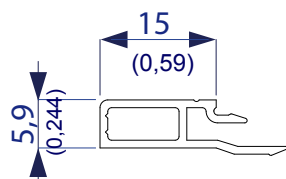
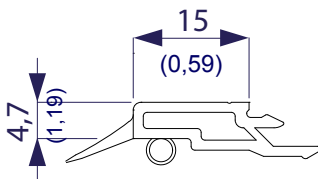
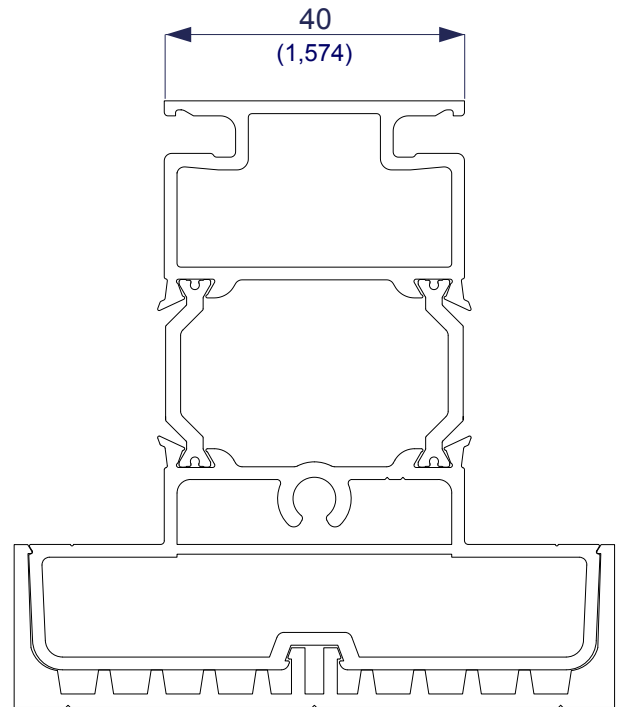
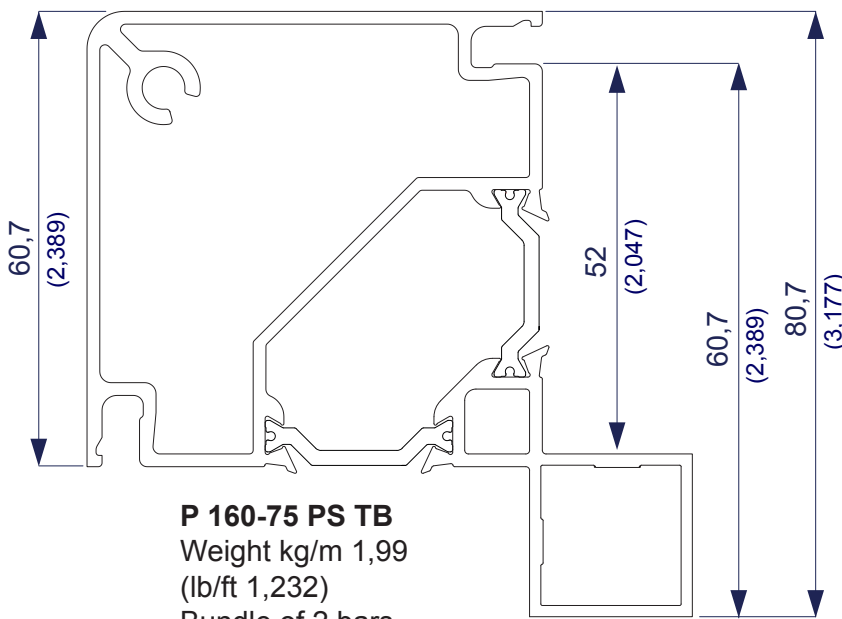
N 60-50_2 IR JP
Box of 50 pcs.



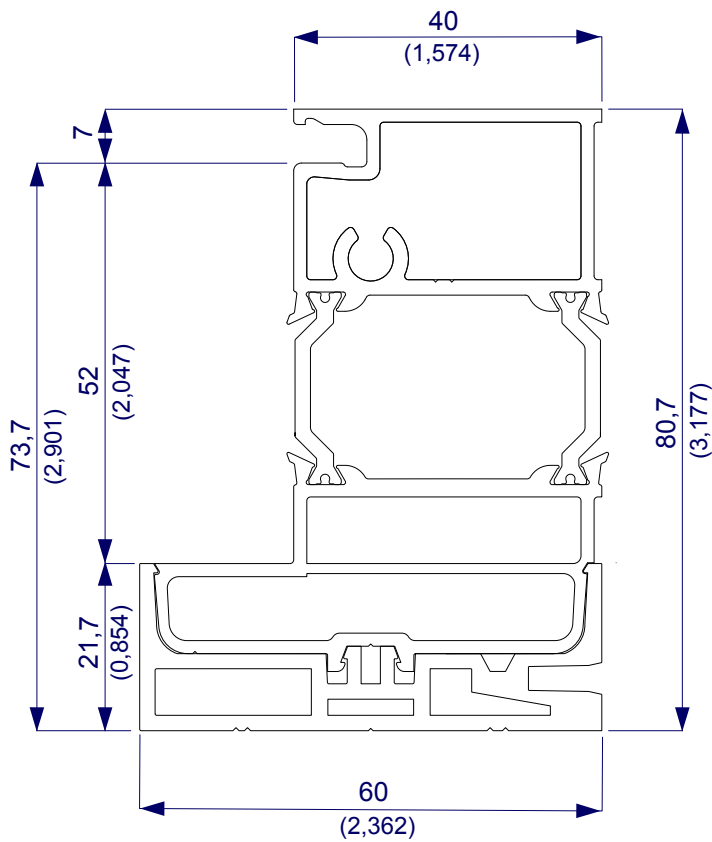
N 60-50_2 JP
Box of 50 pcs.



Square profiles (section 60 panel 75/80 mm; nylon corner)
Pre-assembled thermal break profile with polyamide and PVC

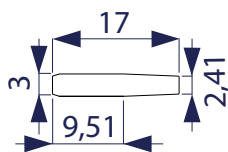
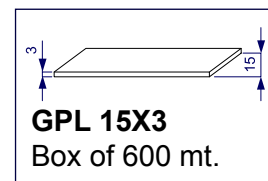
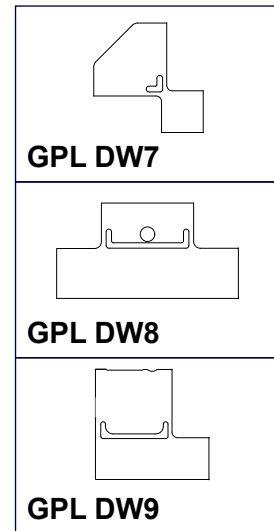


Square profiles (section 60 panel 75/80 mm; nylon corner)
Pre-assembled thermal break profile with polyamide and PVC



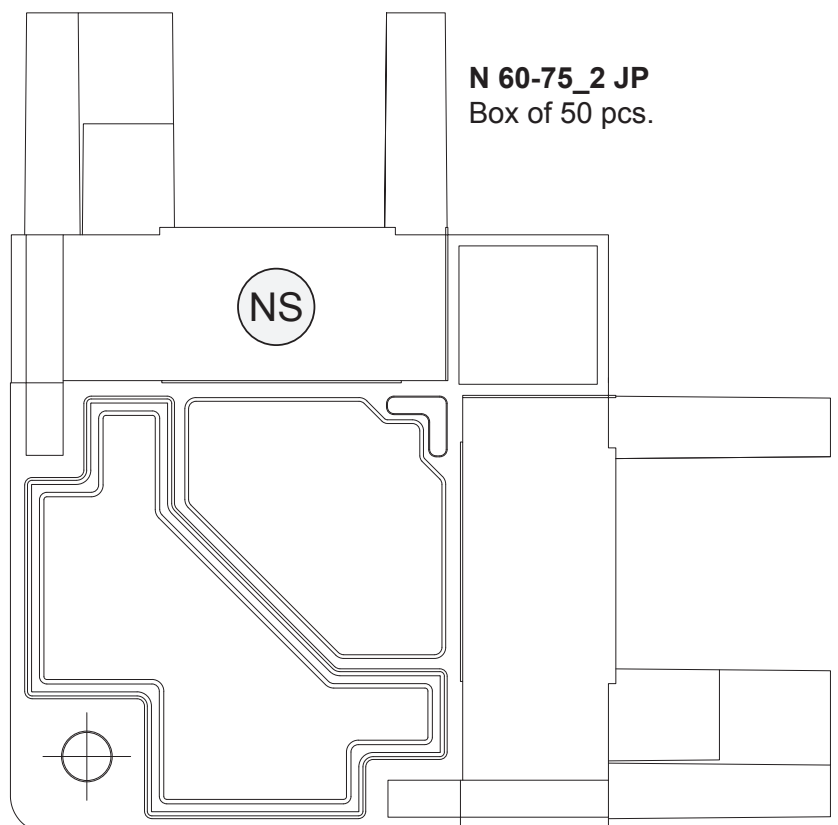
P 260-75_2 PS TB
Weight kg/m 1,833
(lb/ft 1,232)
Bundle of 2 bars

GASKET



PVC GB1
Weight kg/m 0,063
Box of 50 mt.

N 60-75_2 JP
Box of 50 pcs.



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

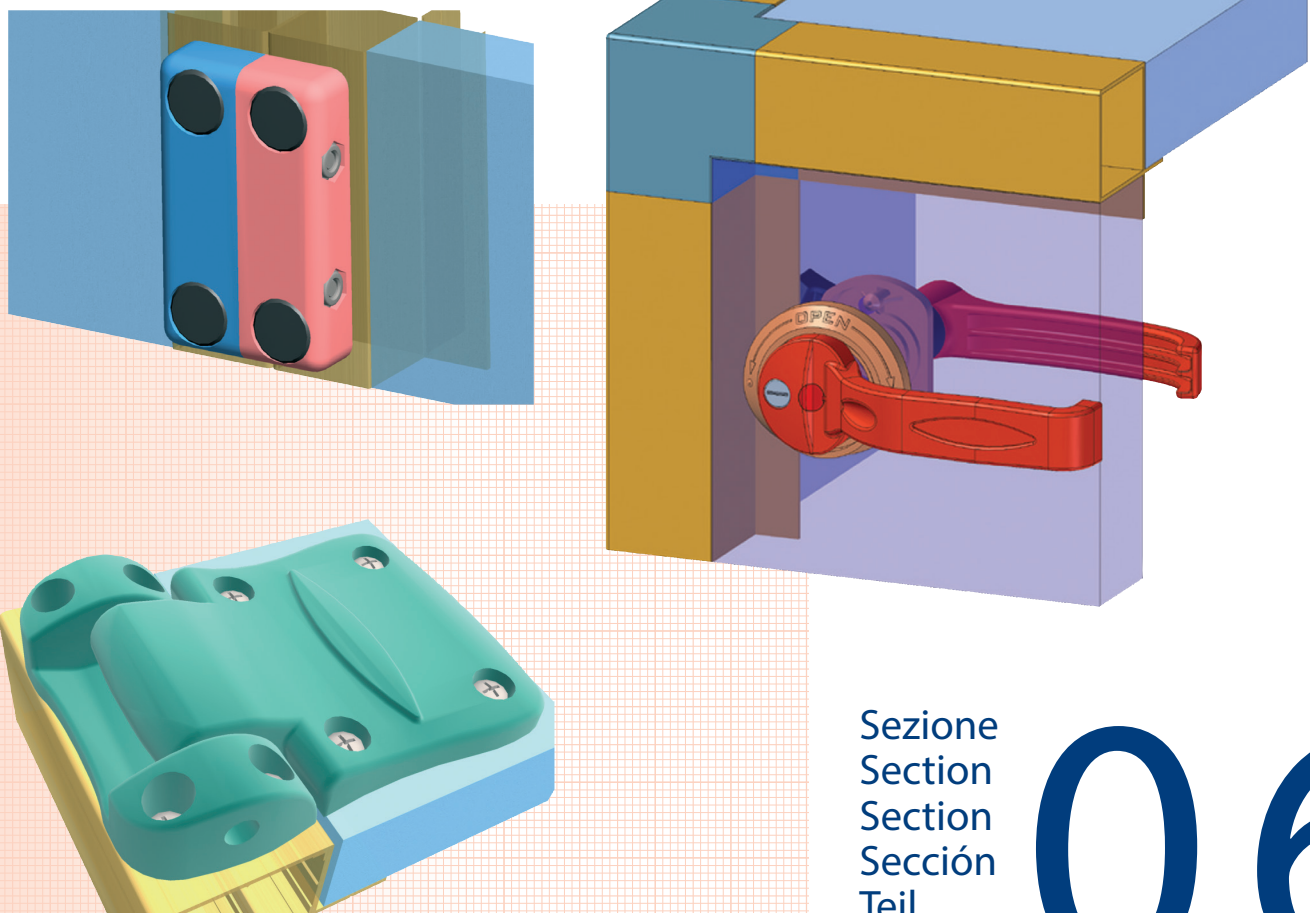
Accessories: handles, panel stops, hinges, locks, double locks, knob, screw-guide bushings, pressure plug, screw cover caps, portholes...

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.

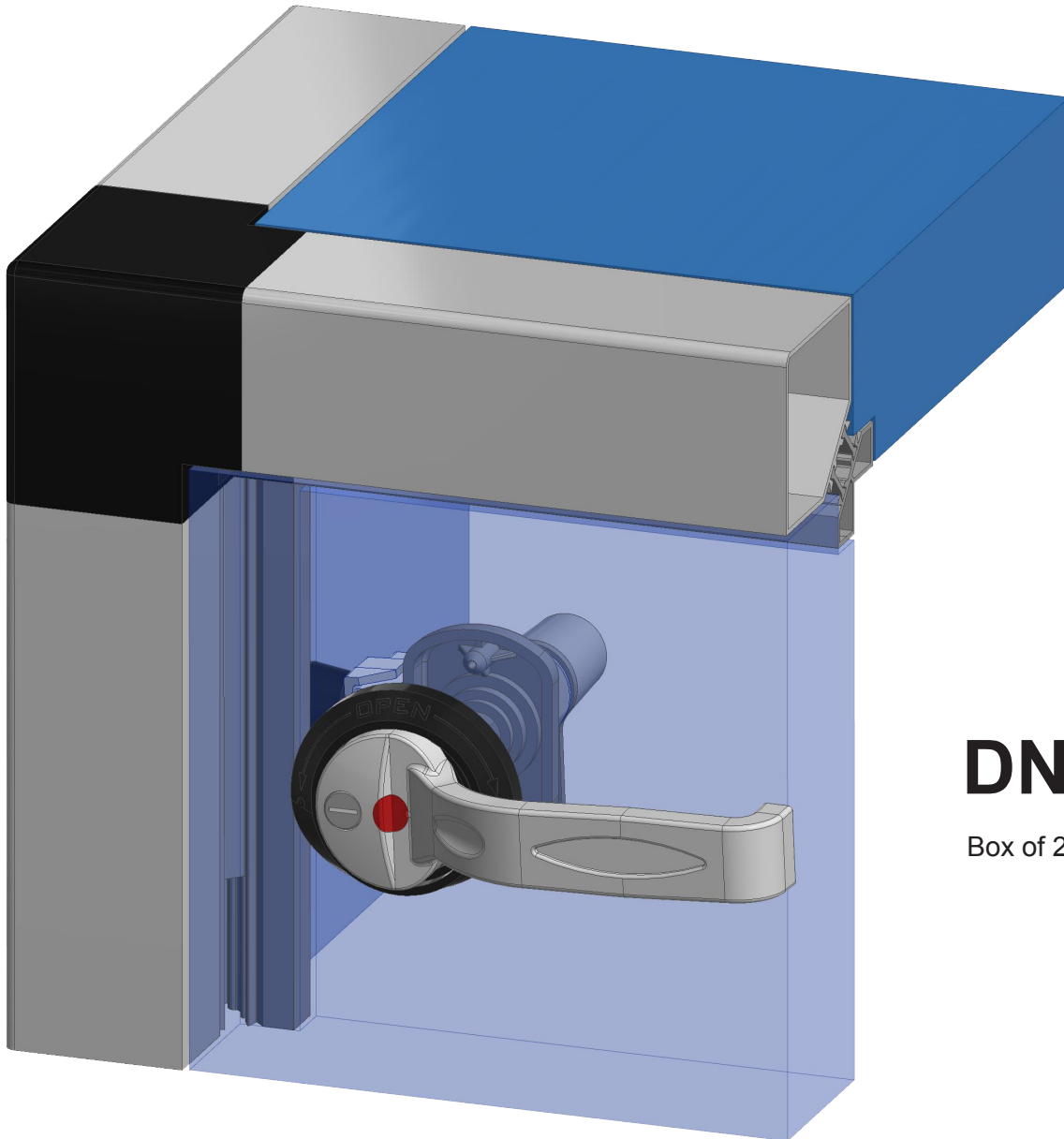
PRESSURE PLUGS

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

ALUMINIUM BRACKETS

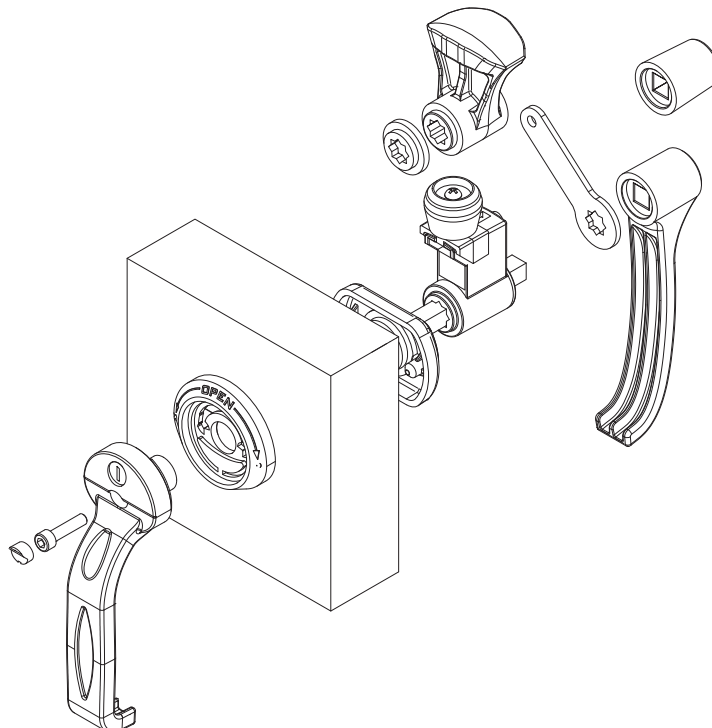
The ACB series is made up of several brackets, made of die-cast aluminum, which are very useful to fix and unite different sections of an air handling unit.

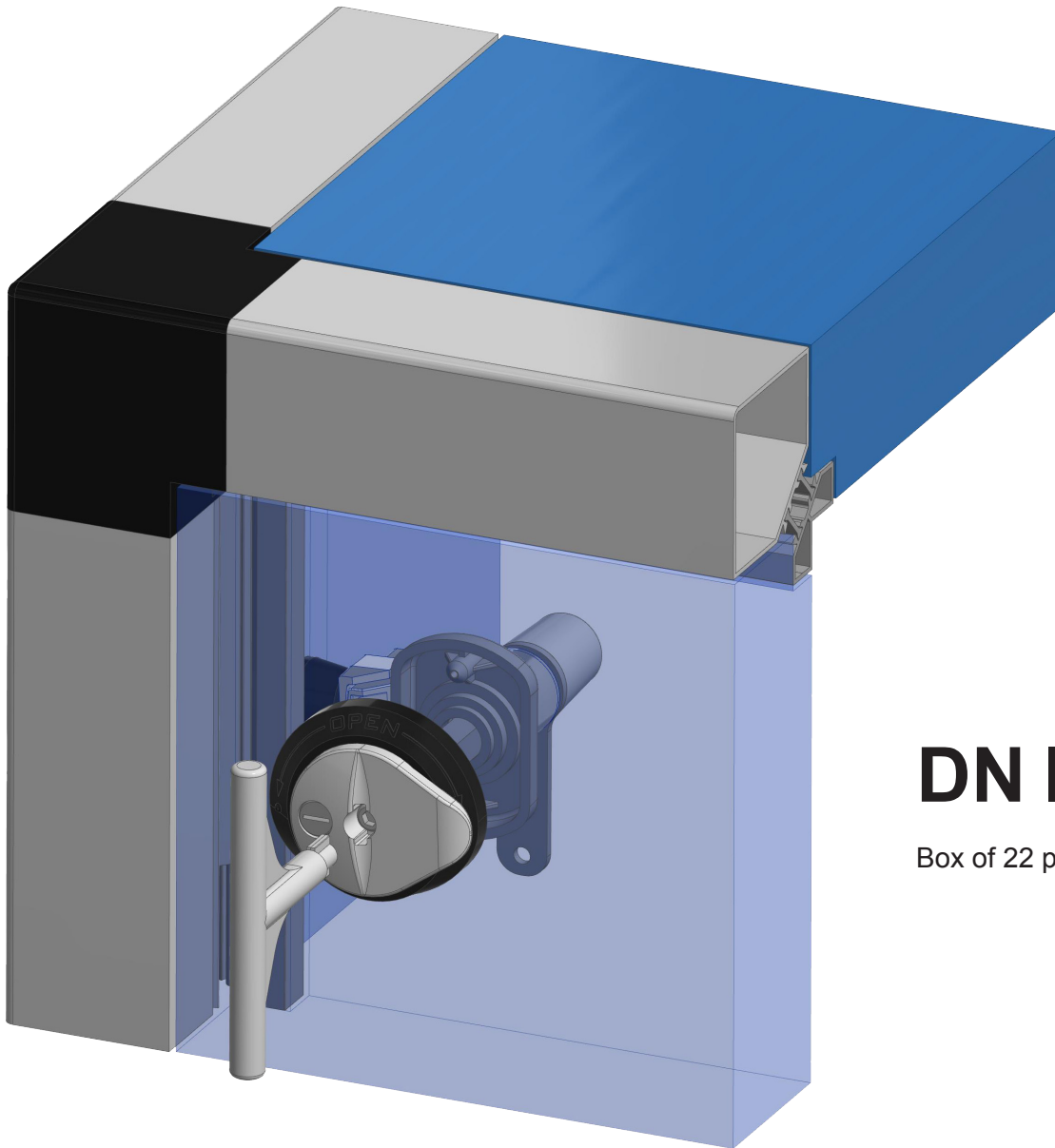
These brackets have a conical shape in order to align the sections on the same level, even when the floor is misaligned or disconnected. There are also available brackets to suspend the unit to the ceiling or whether the AHU should be laid on adjustable feet.



DN ISO

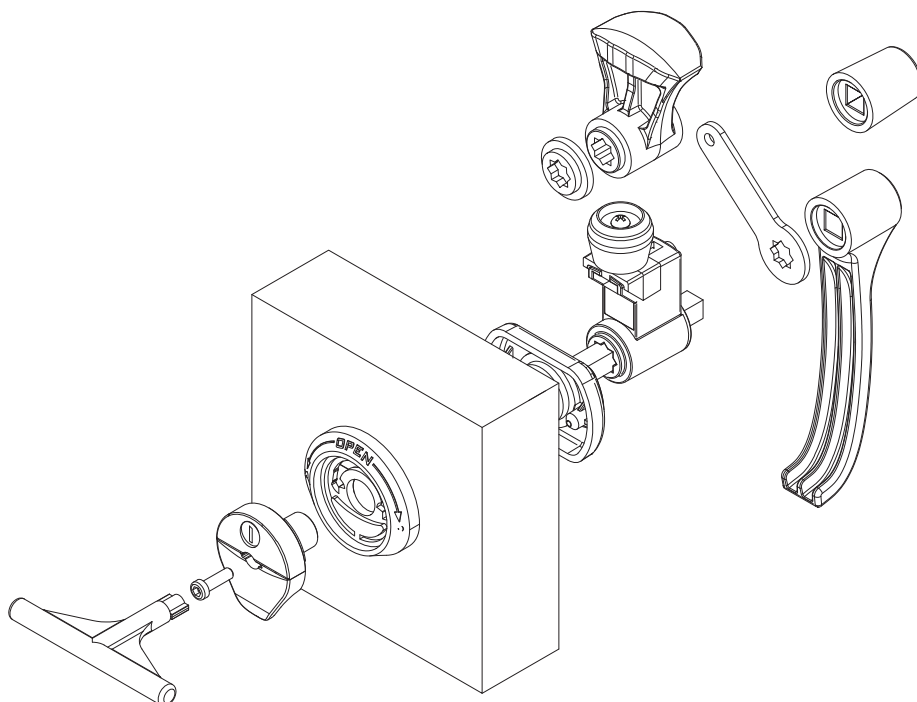
Box of 22 pcs.



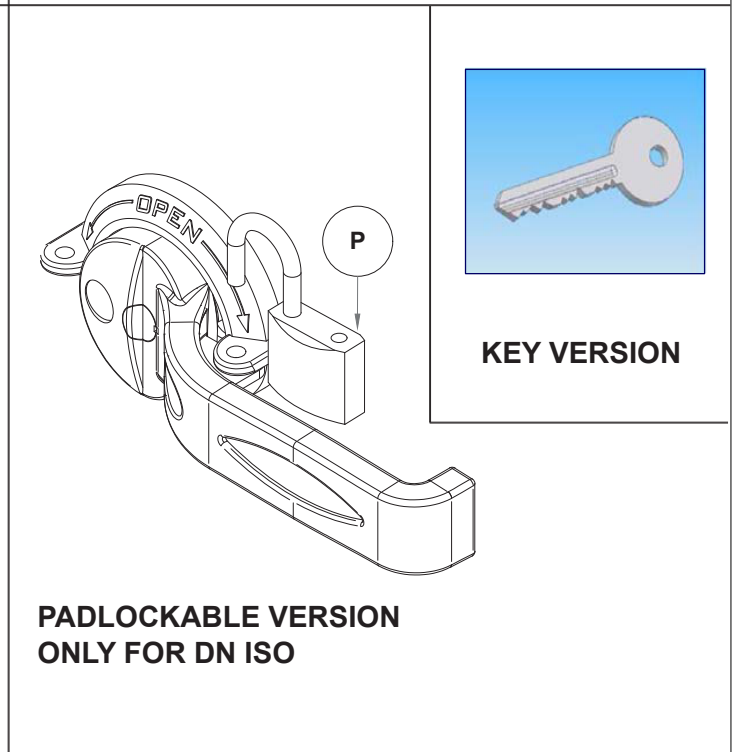
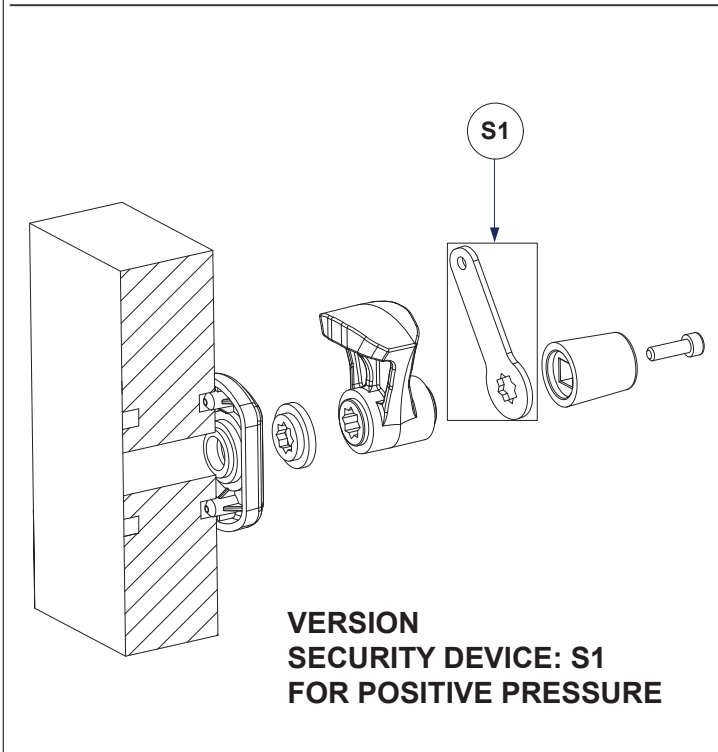
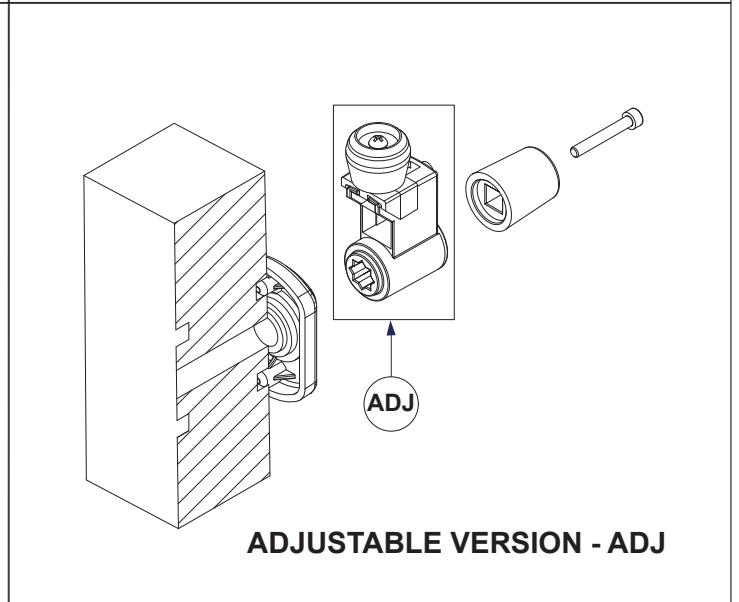
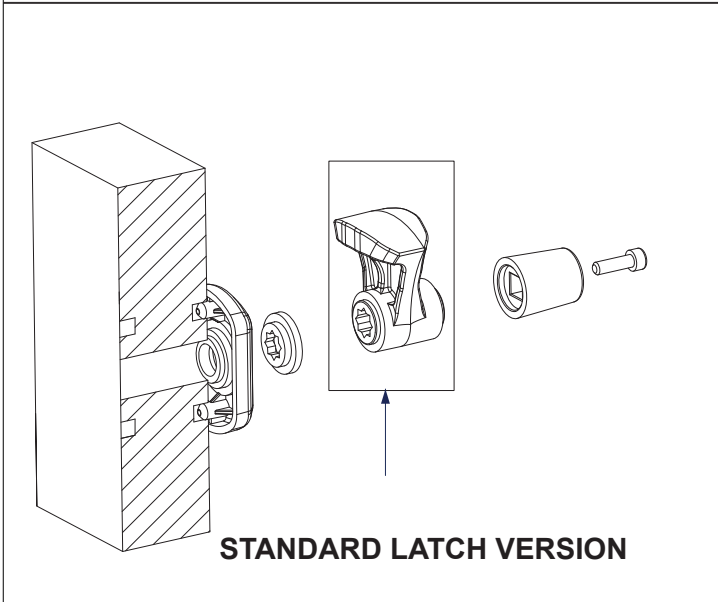
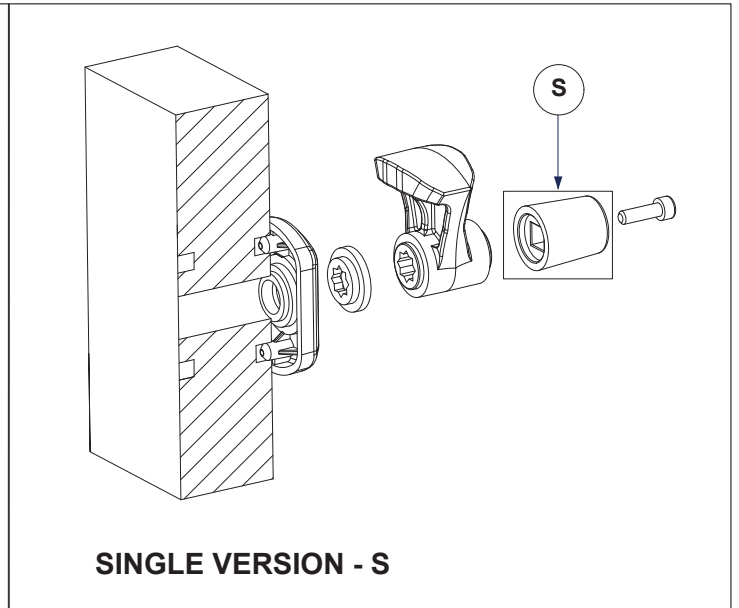
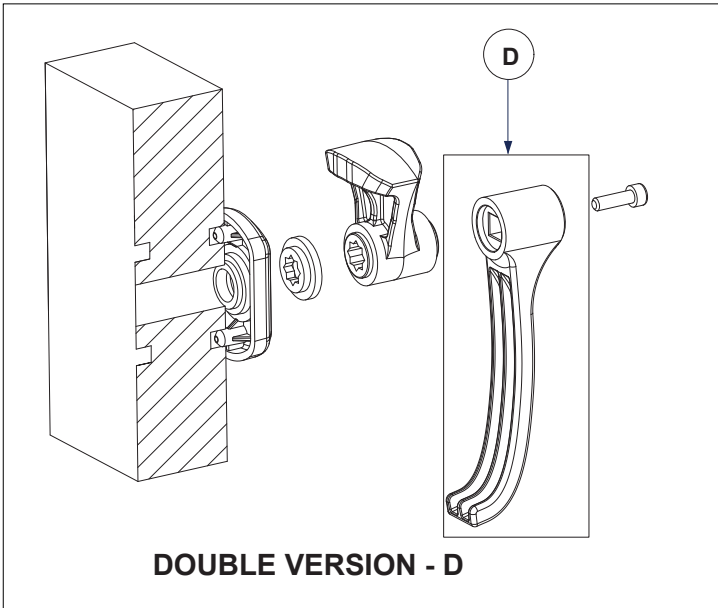


DN ISO 1

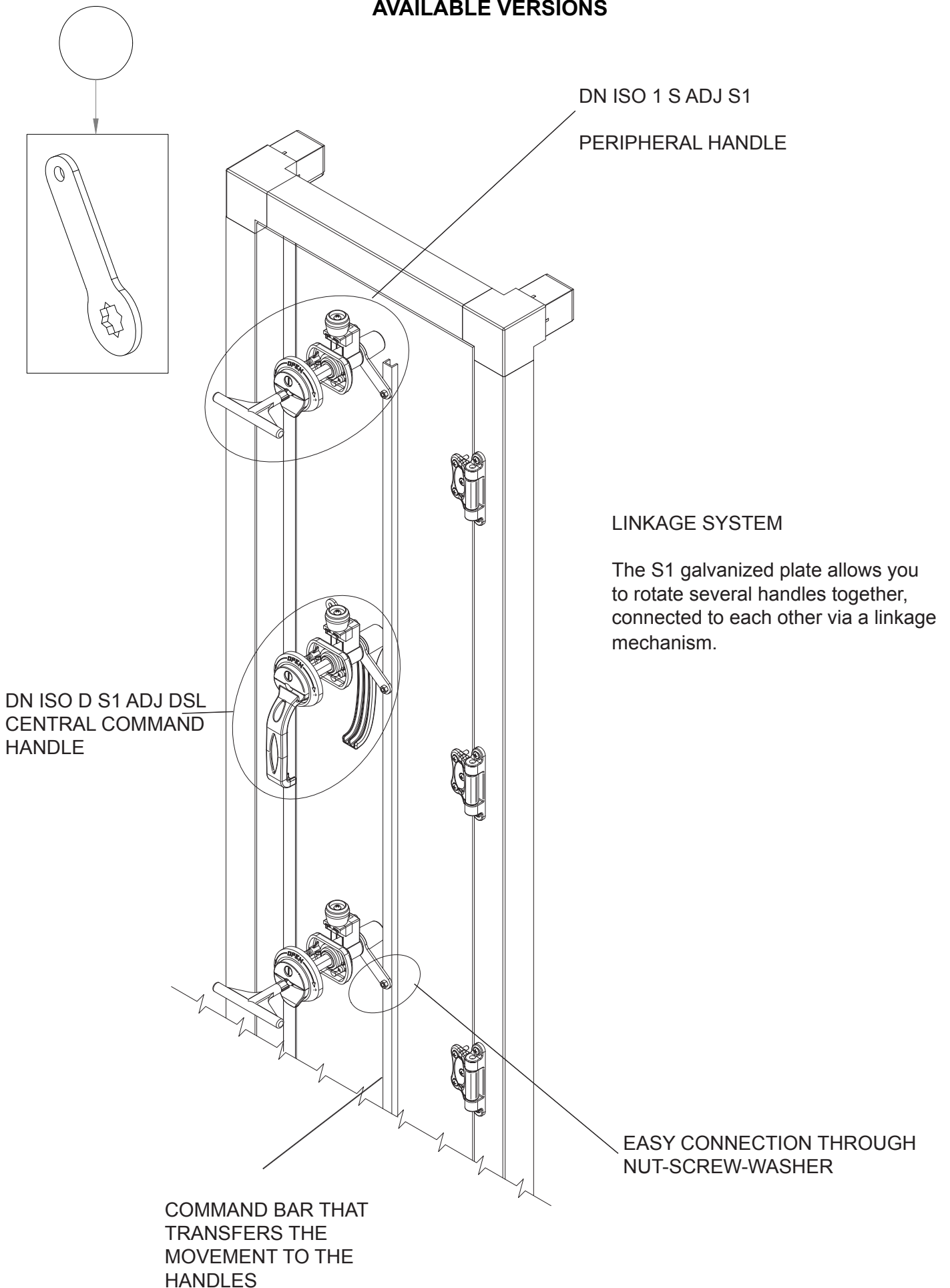
Box of 22 pcs.



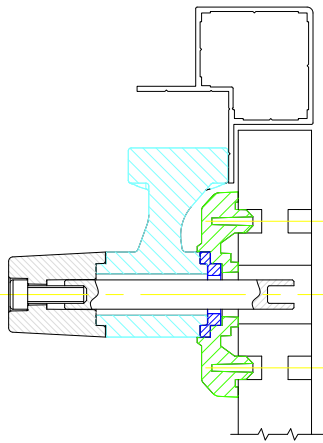
AVAILABLE VERSIONS



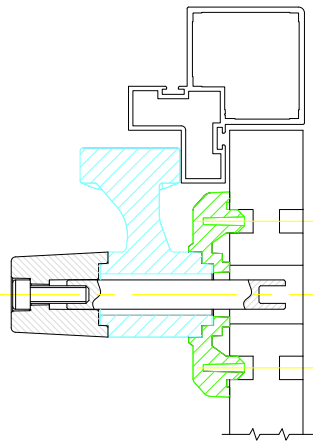
AVAILABLE VERSIONS



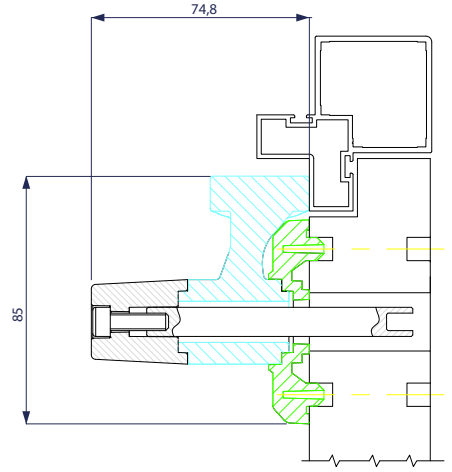
DRAWING SCHEME FOR HANDLE DN ISO / DN ISO - 1 - STANDARD LATCH



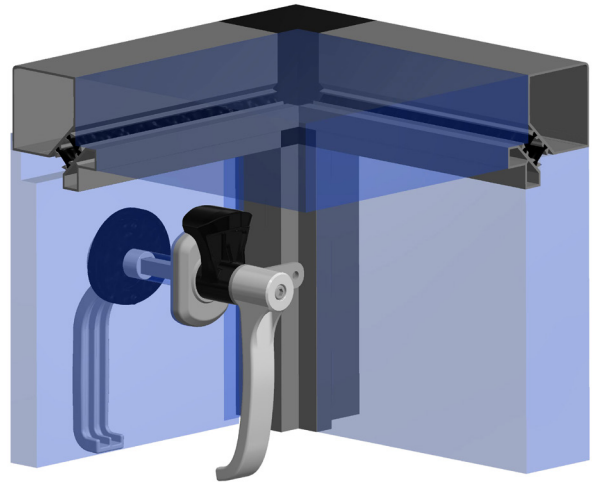
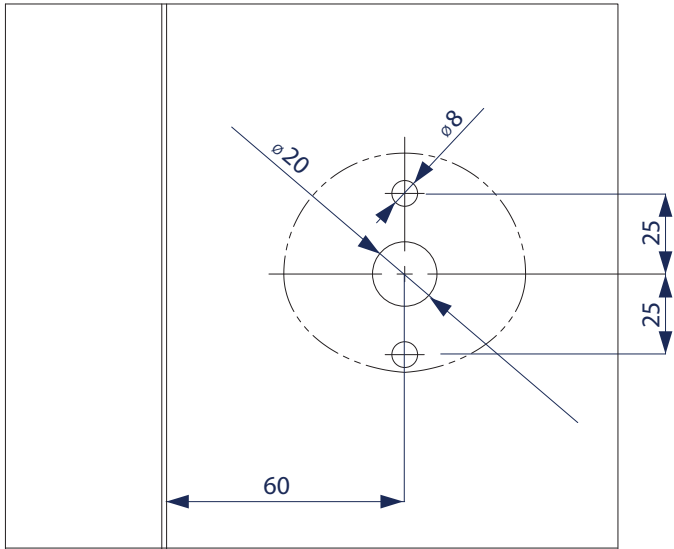
SINGLE FOLD PANEL
STANDARD PROFILE



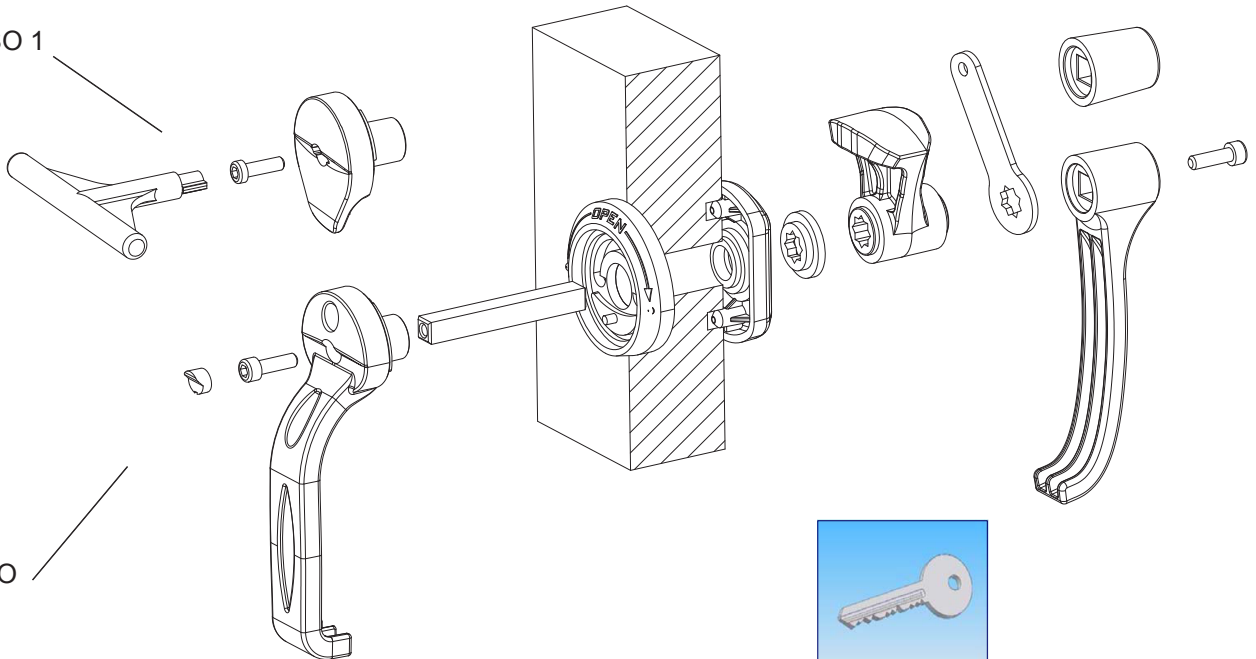
SINGLE FOLD PANEL
DOUBLE WALL PROFILE



DOUBLE FOLD PANEL
DOUBLE WALL PROFILE

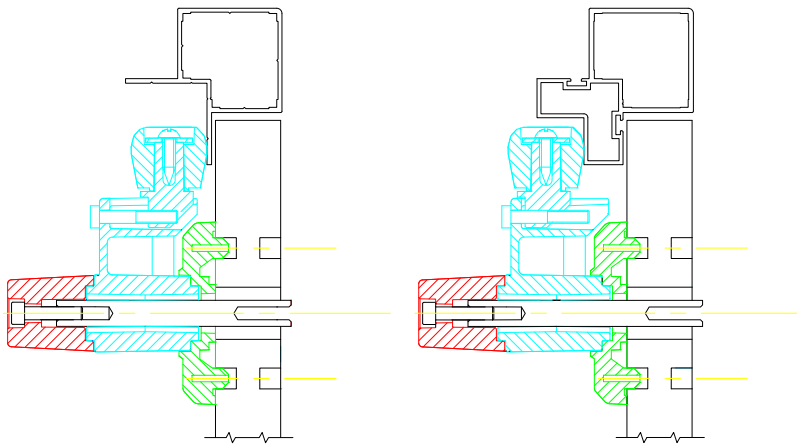


DN ISO 1



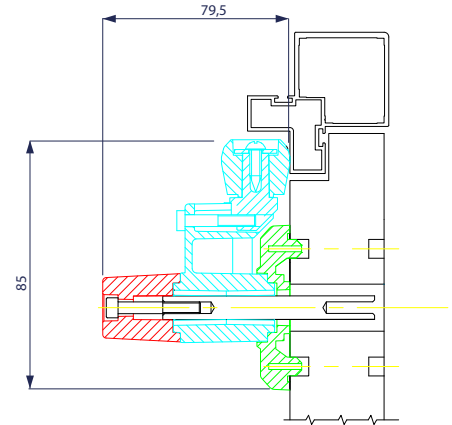
DN ISO

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

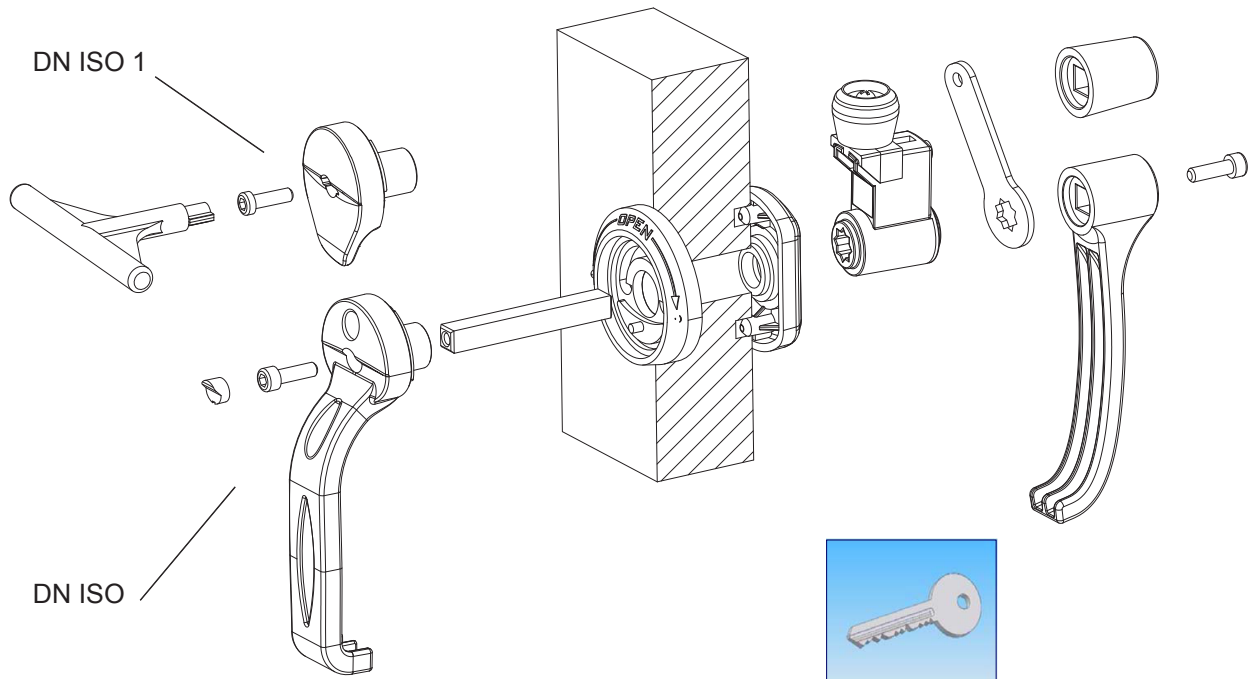
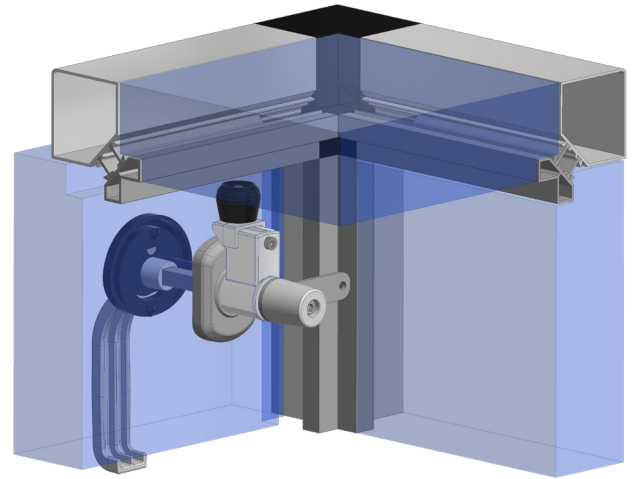
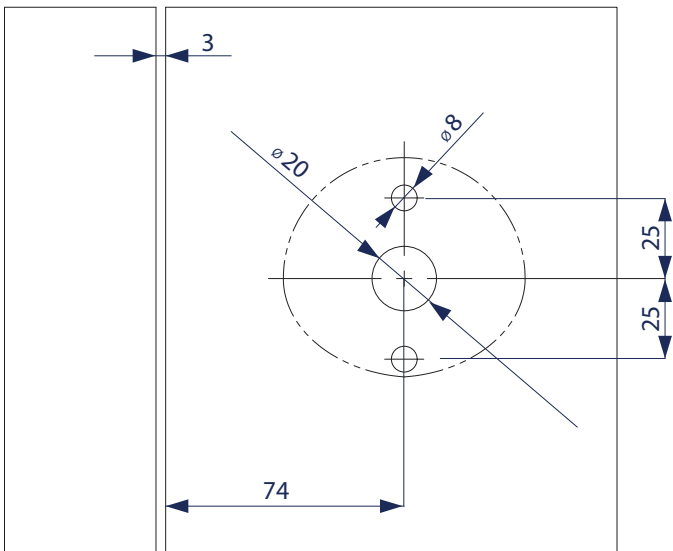


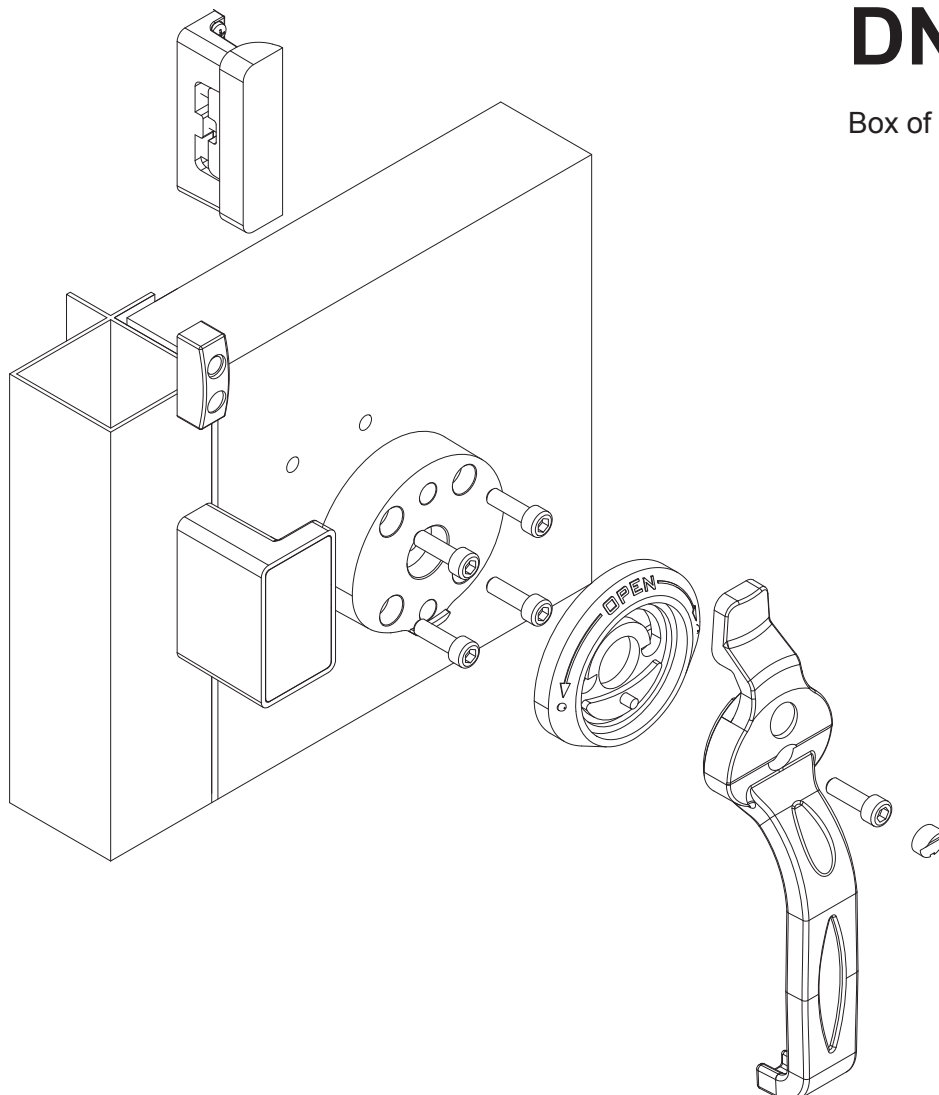
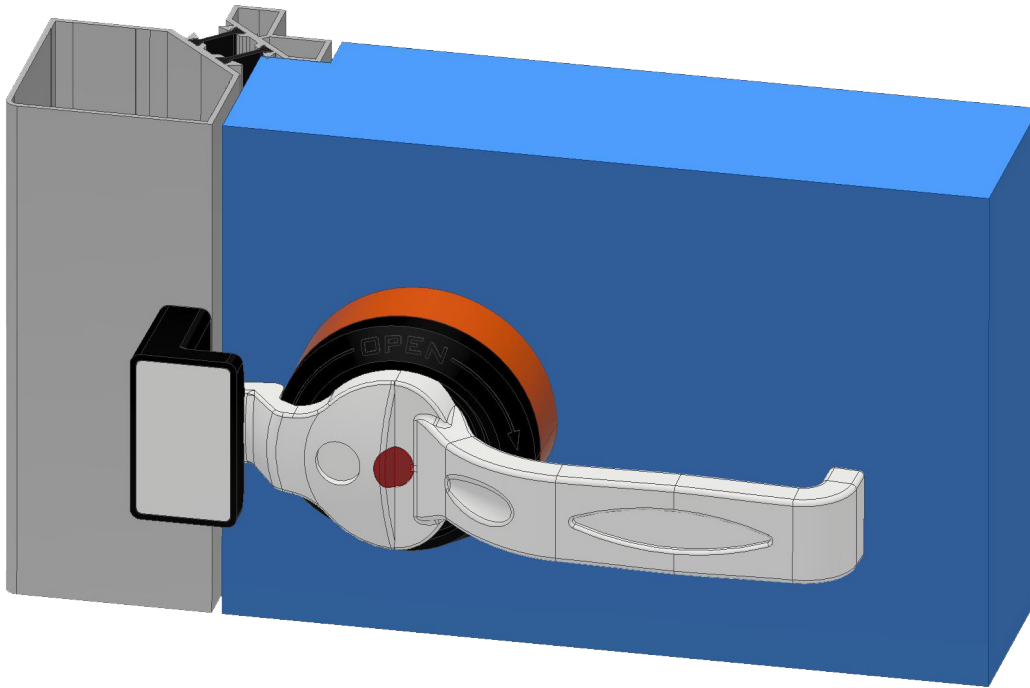
SINGLE FOLD PANEL
STANDARD PROFILE

SINGLE FOLD PANEL
DOUBLE WALL PROFILE



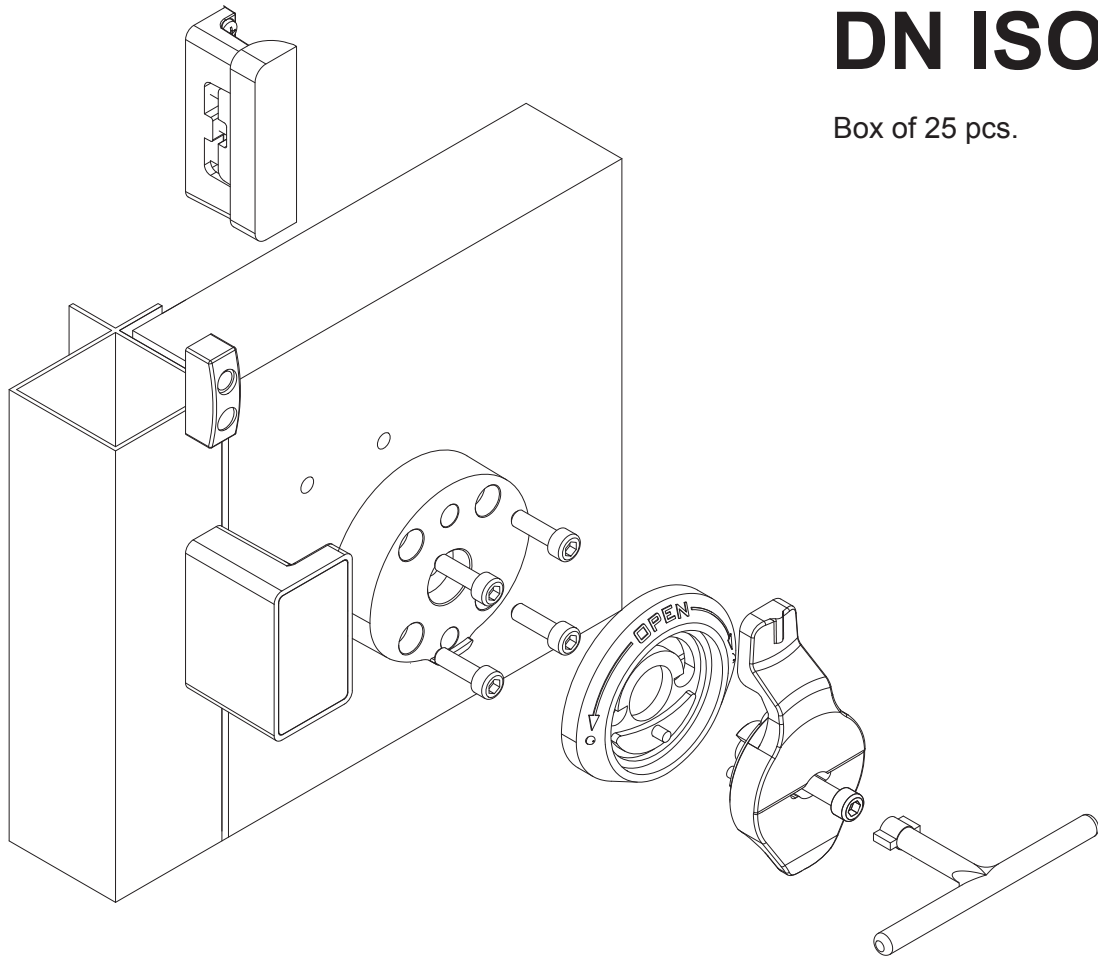
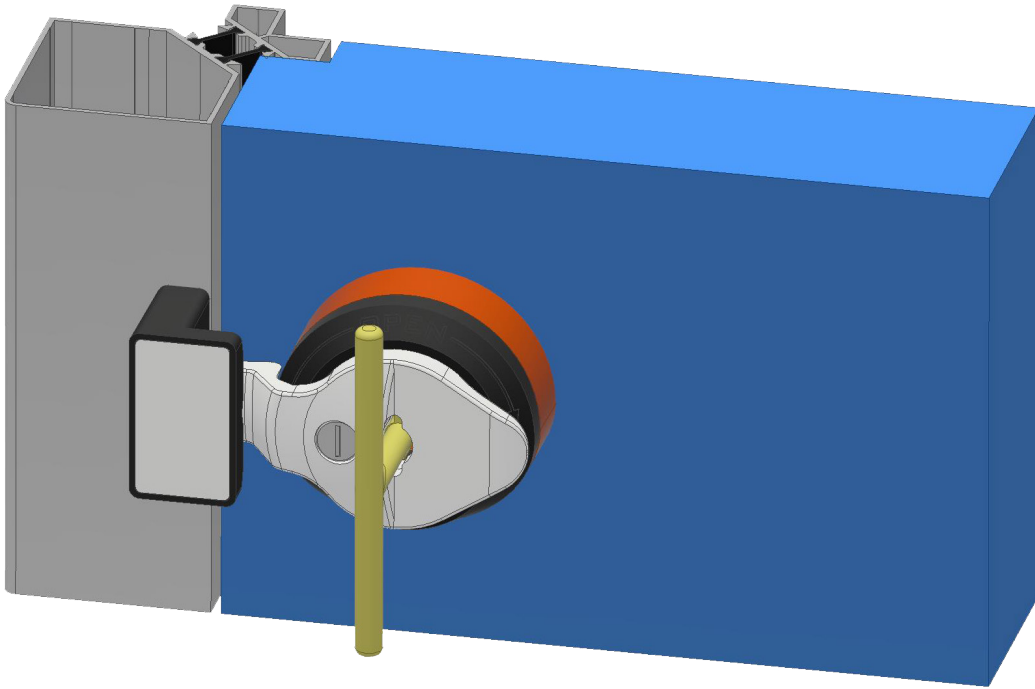
DOUBLE FOLD PANEL
DOUBLE WALL PROFILE





DN ISO-0

Box of 25 pcs.

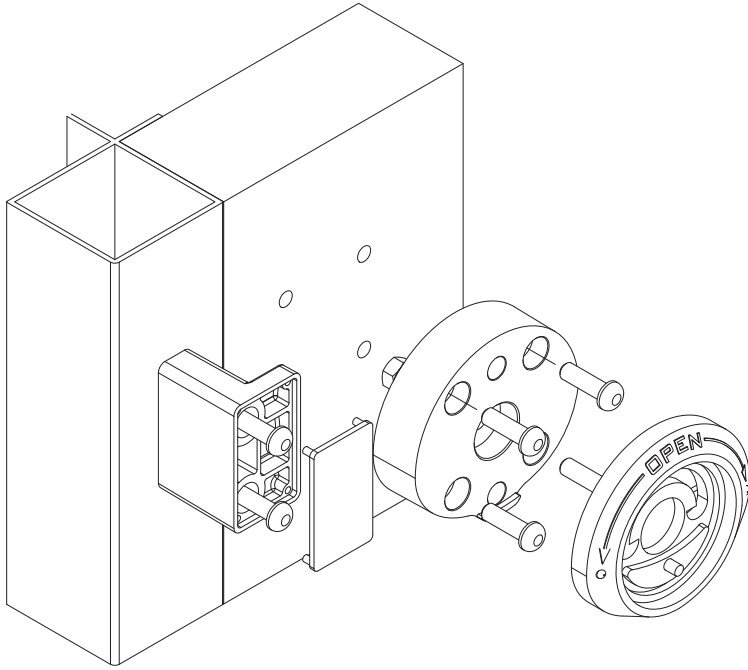


DN ISO-0 1

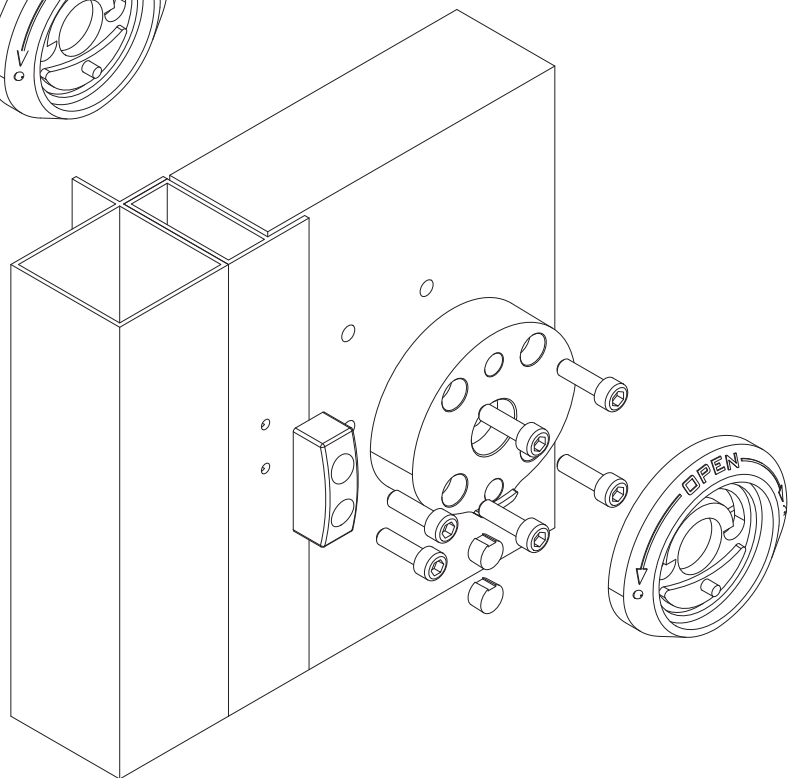
Box of 25 pcs.

AVAILABLE VERSIONS

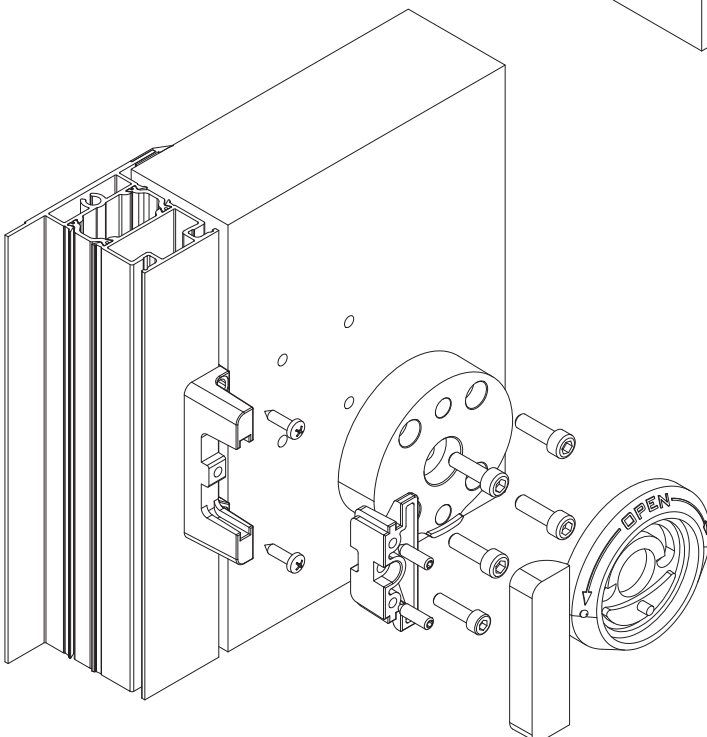
1. STANDARD VERSION

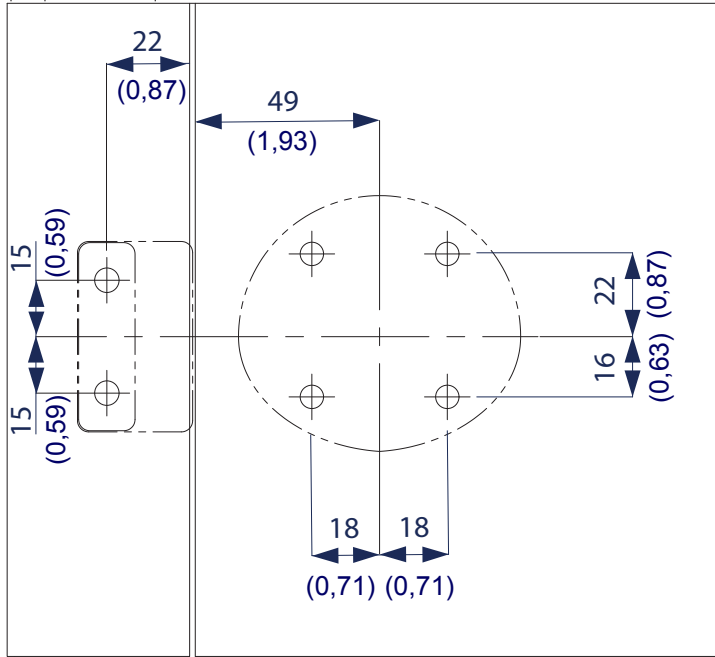


2. PRESSURE VERSION

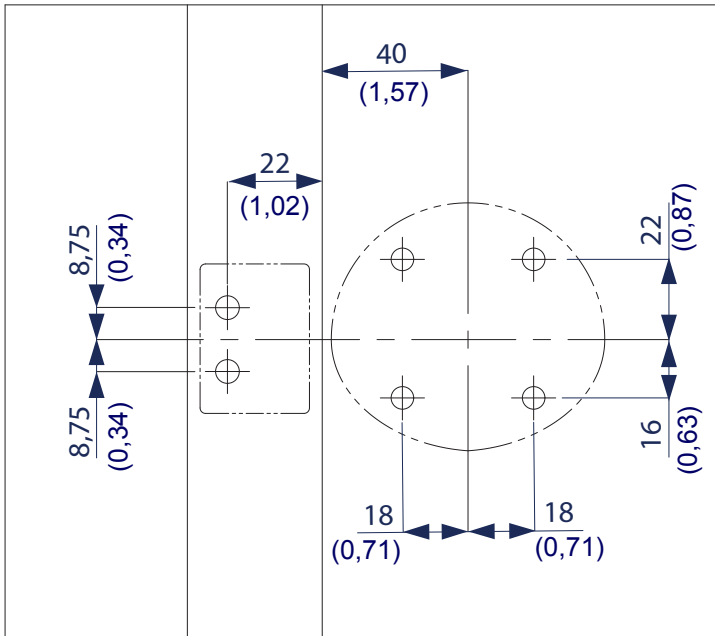
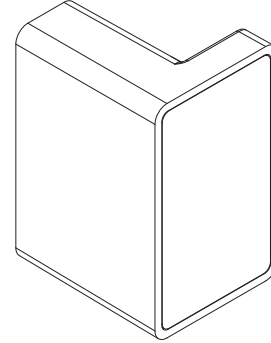


3. ADJ VERSION

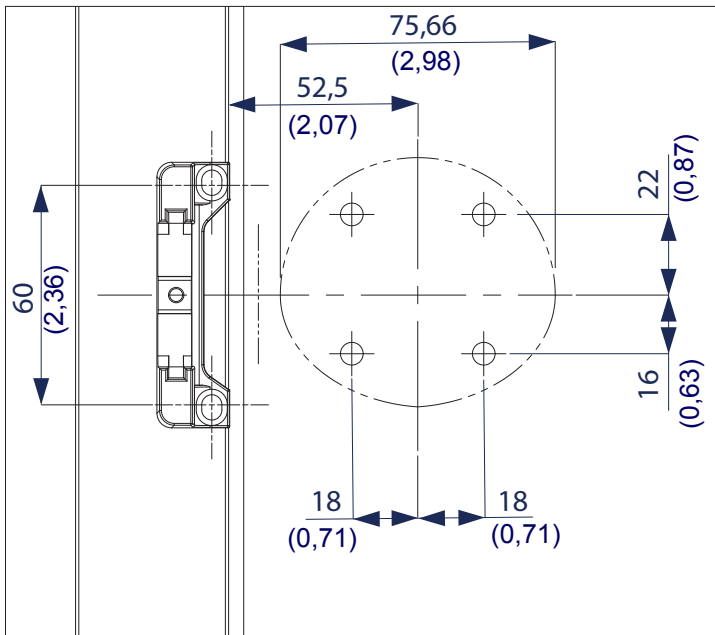
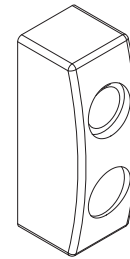




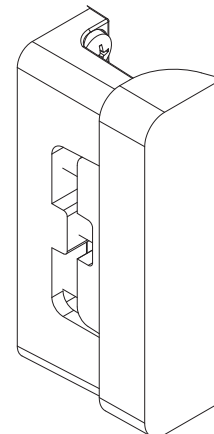
**DRILLING DRAWING
STANDARD VERSION**



**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	89
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

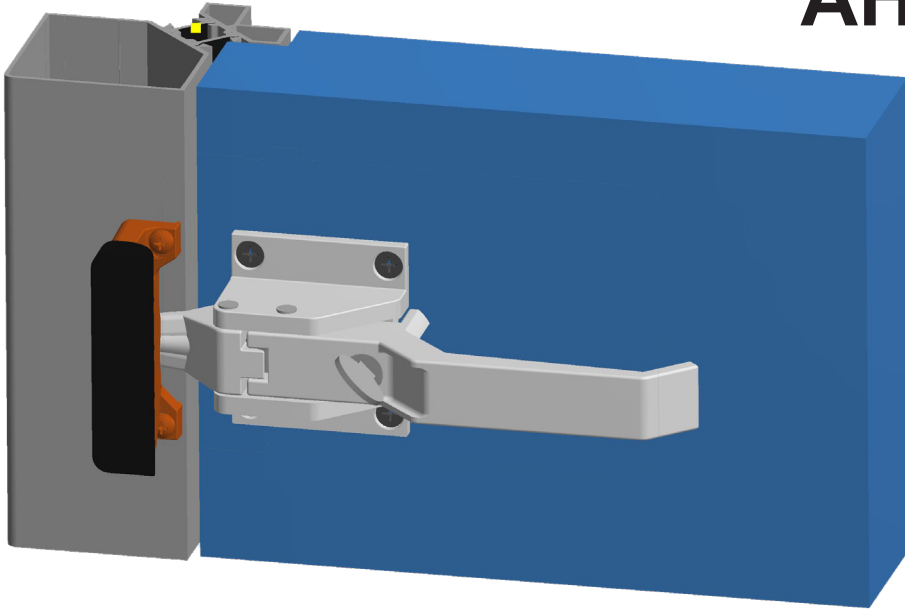
IH = Internal Handle

SD = Security Device for positive pressure

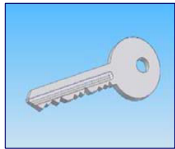
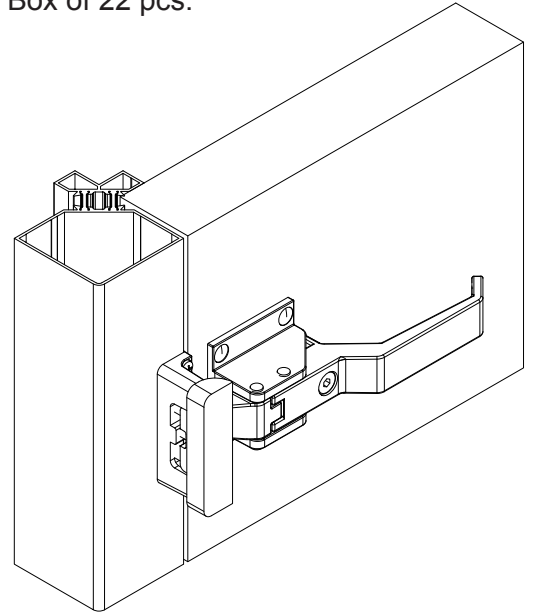
RL = Rotating Latch

TB = specific for Thermal Break system

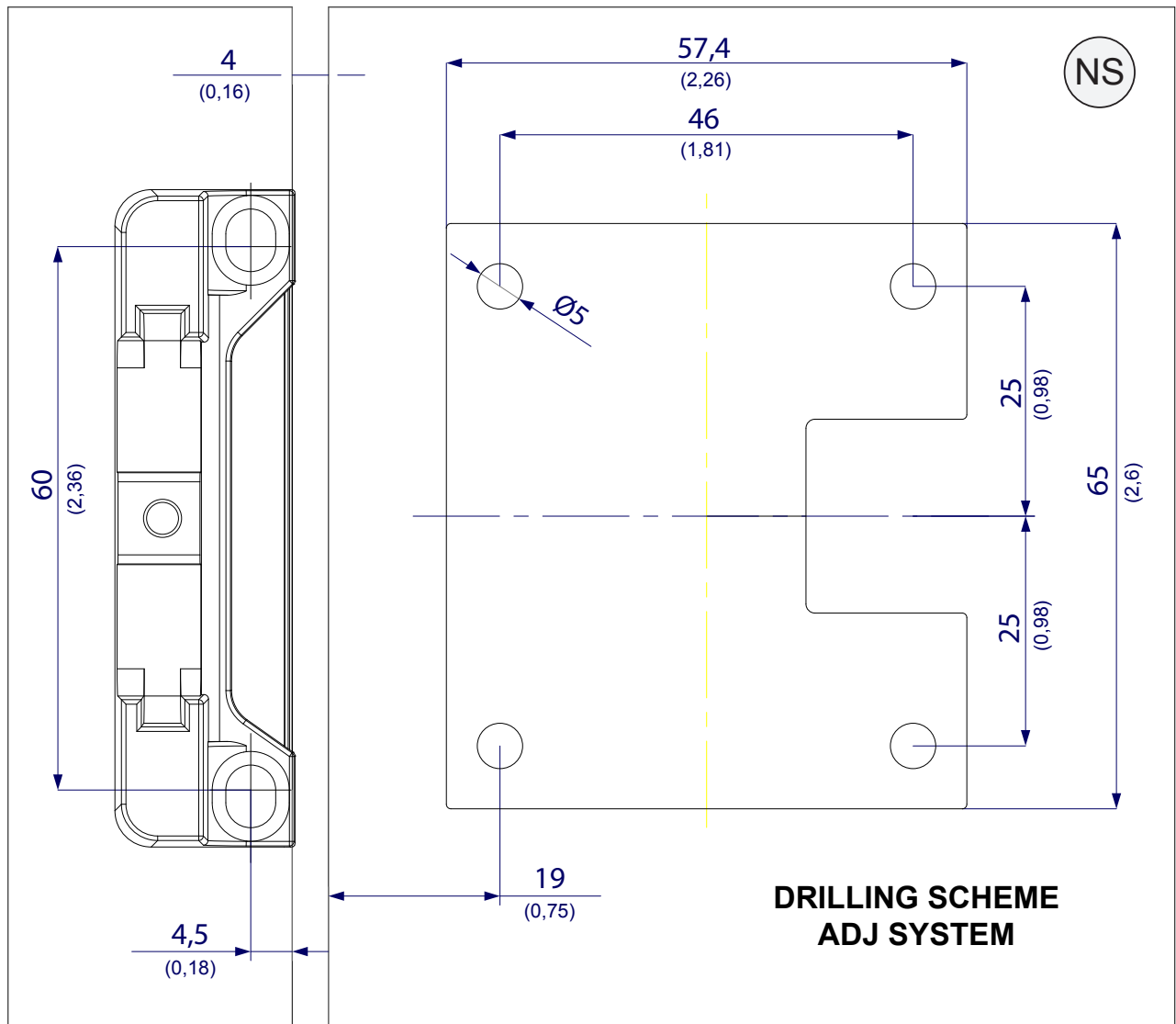
AH DN ISO-0 ADJ

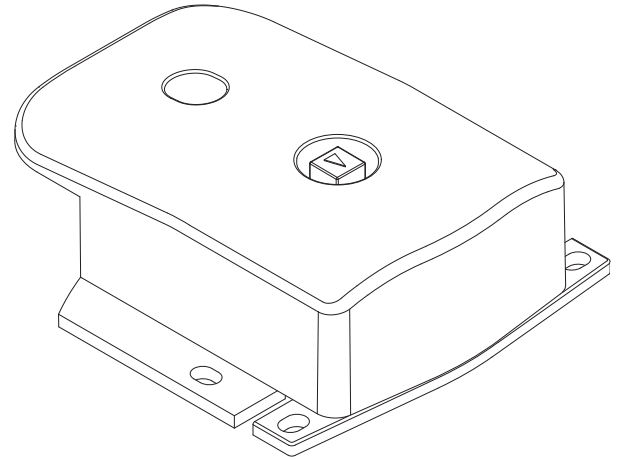
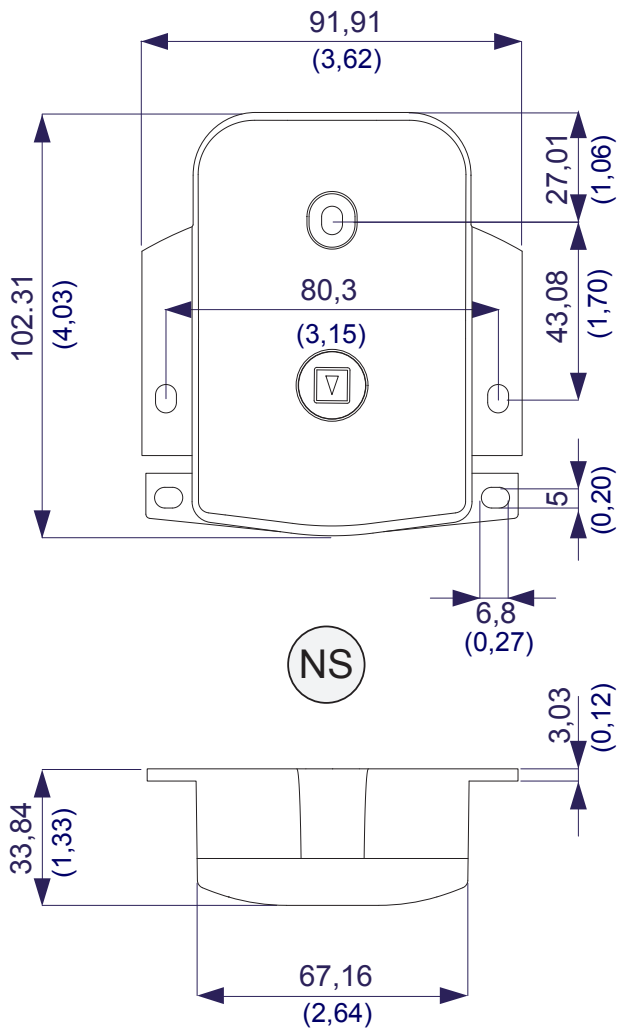


Box of 22 pcs.

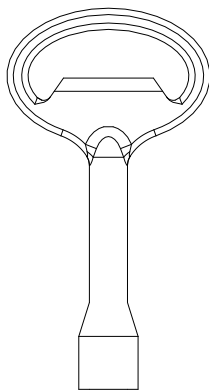


AH DN ISO-0 K ADJ

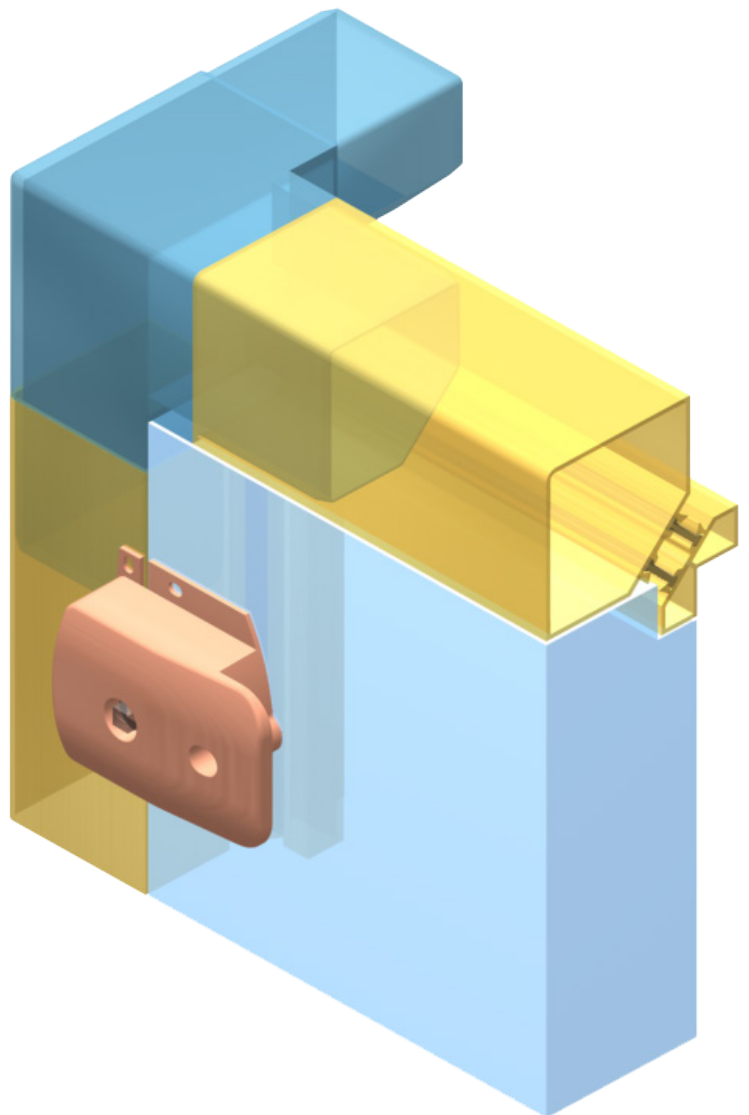




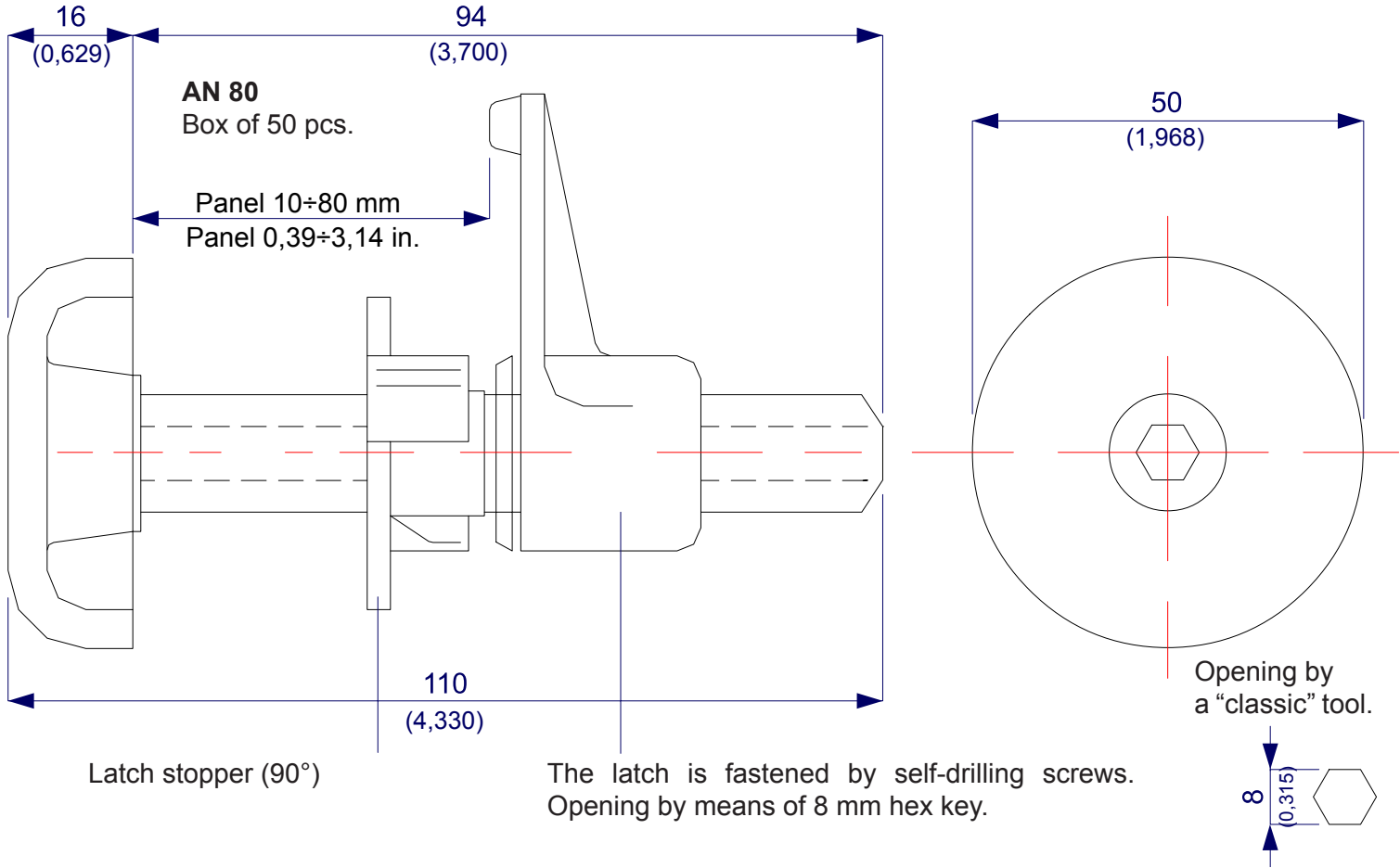
A 85-0
Zamak external handle
painted black



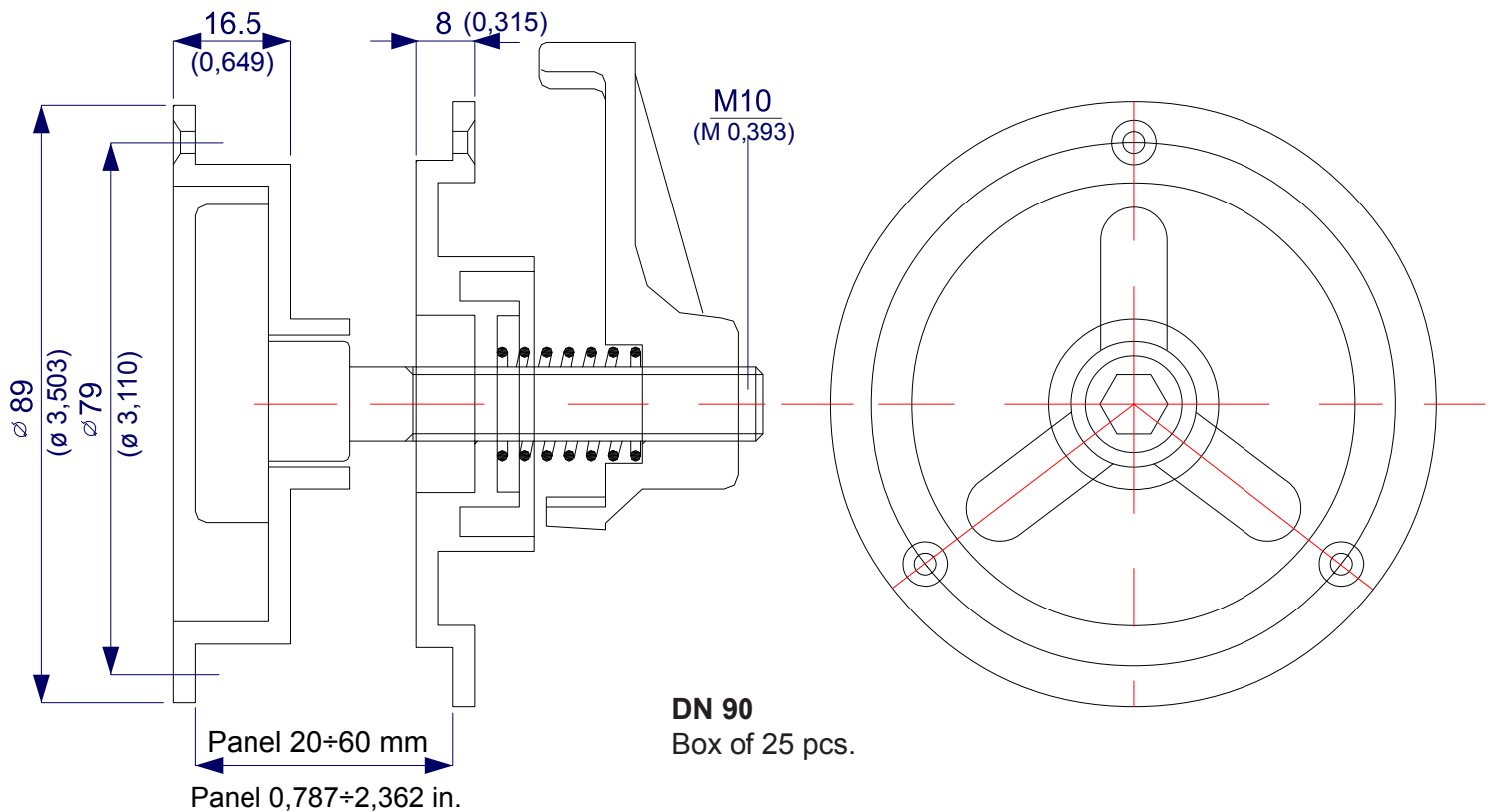
AZ K1
Zamak key



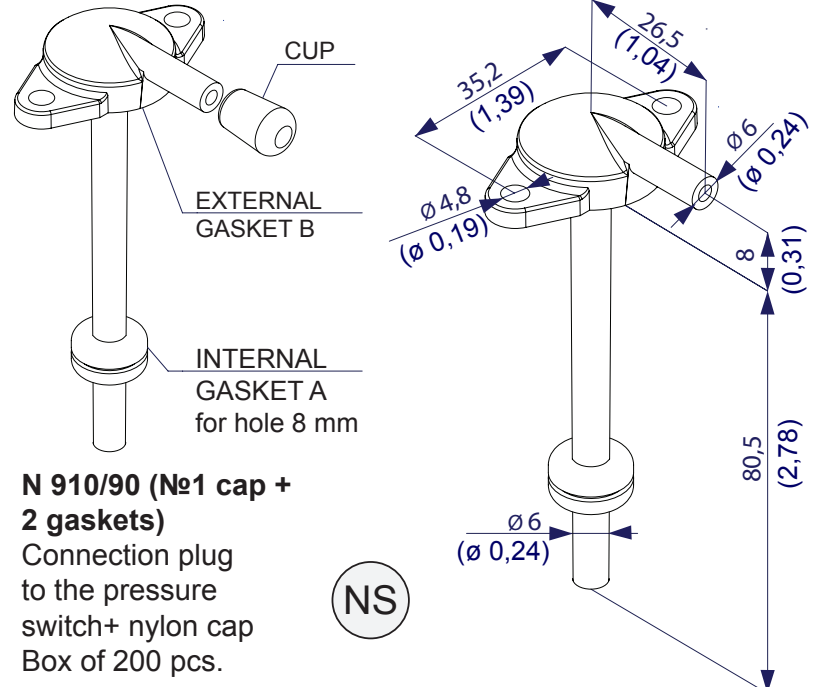
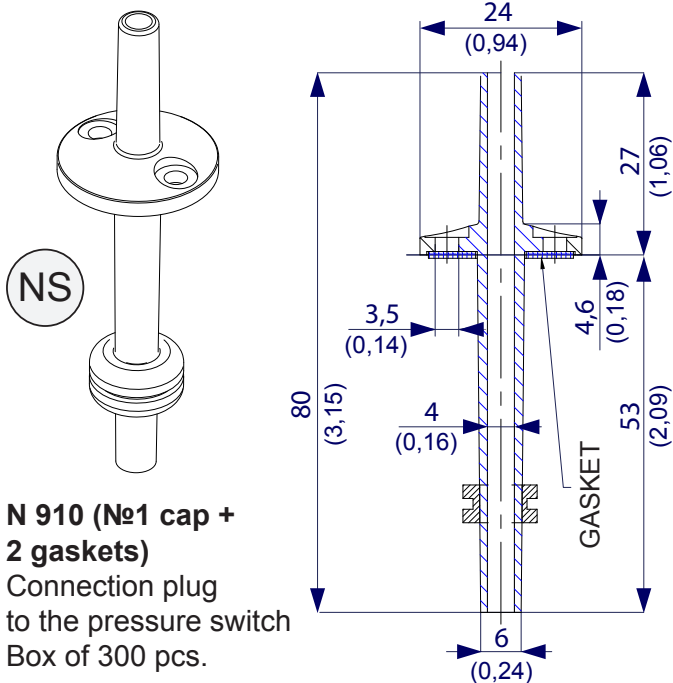
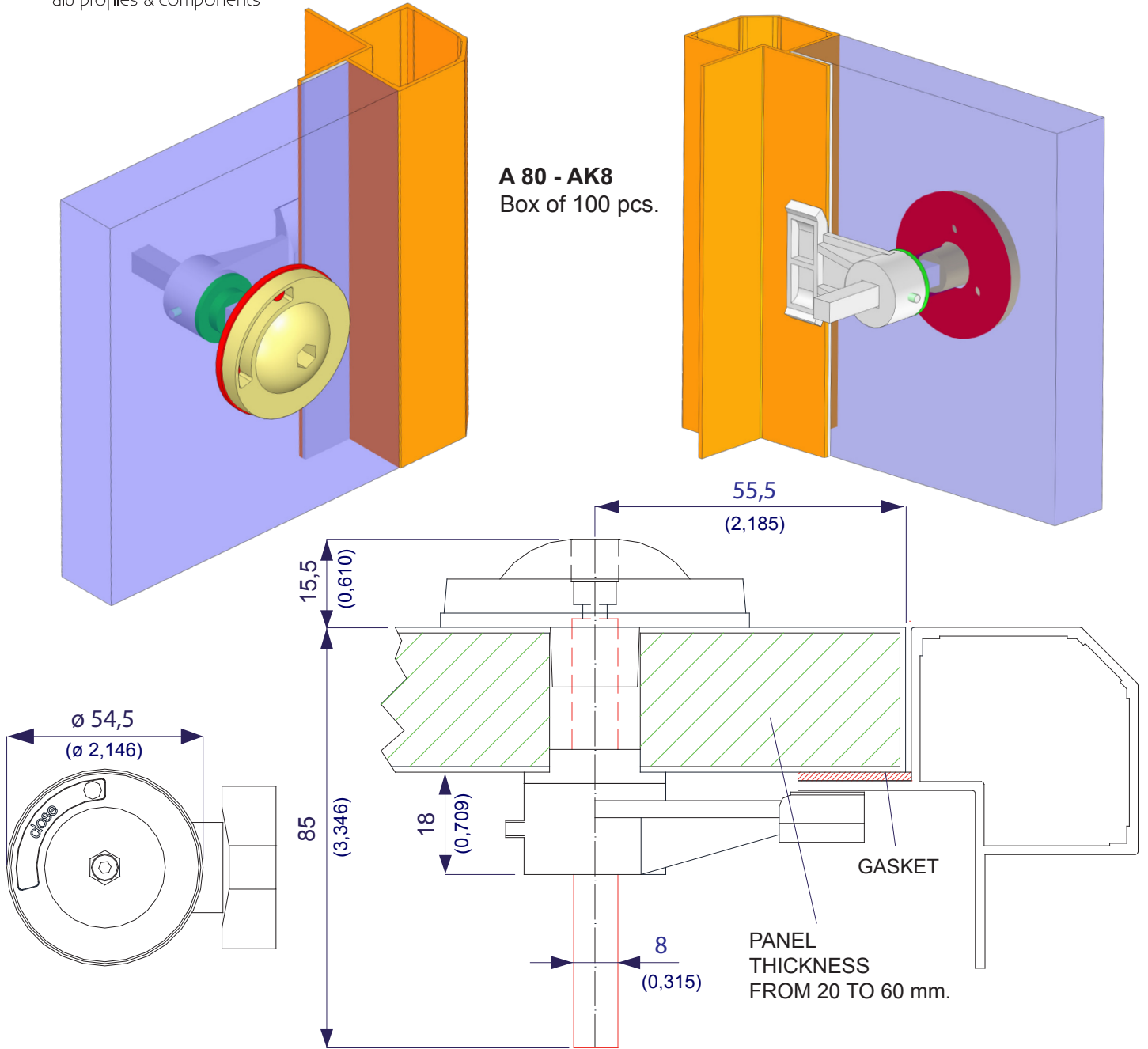
Nylon lock with aluminium pin



Flat lock (handle in line with the panel)

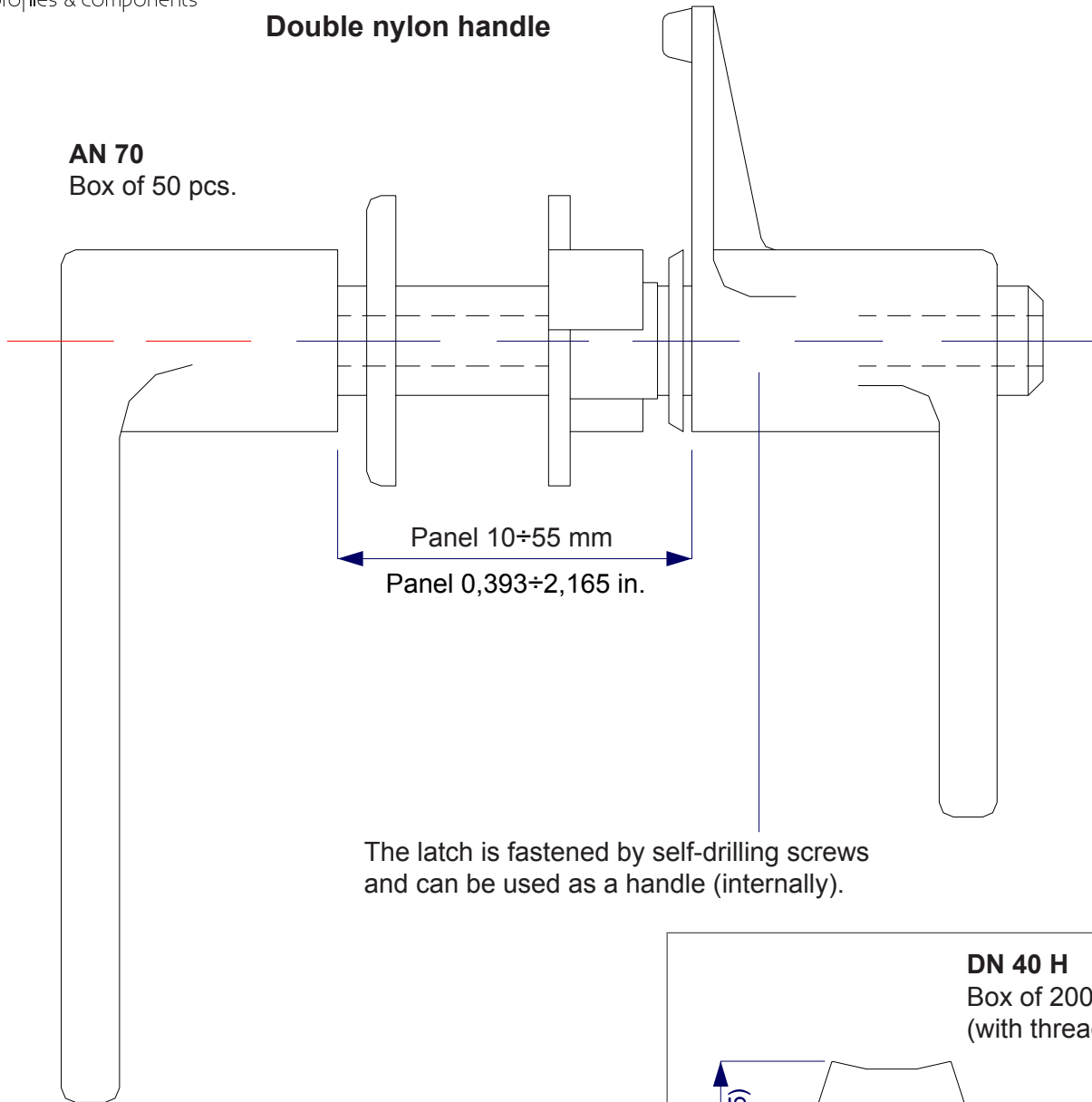


A 80 - AK8
Box of 100 pcs.



Double nylon handle

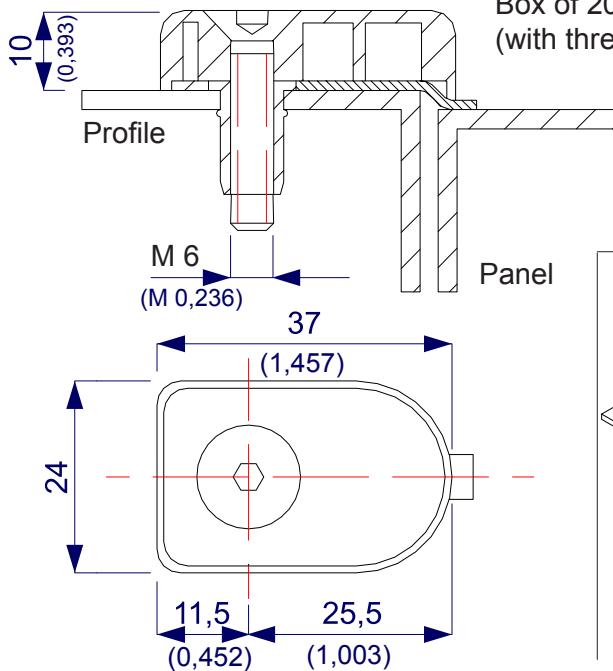
AN 70
Box of 50 pcs.



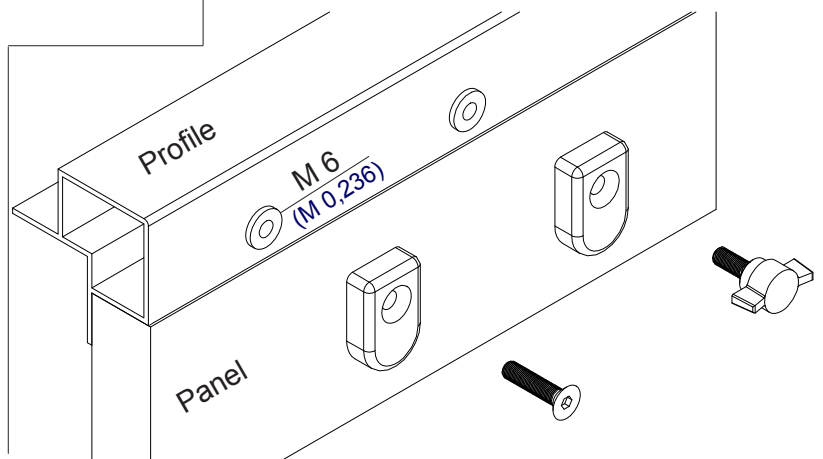
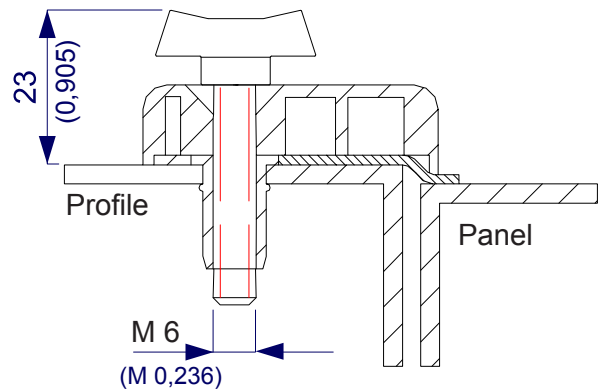
The latch is fastened by self-drilling screws and can be used as a handle (internally).

Nylon panel stop

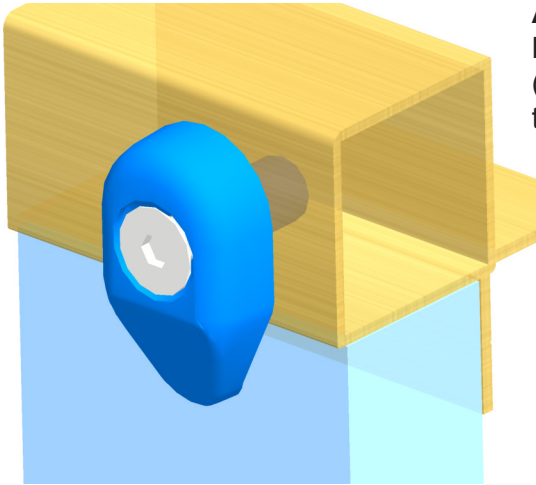
DN 40
Box of 200 pcs.
(with threaded insert)



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

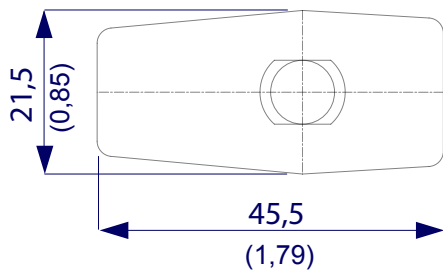
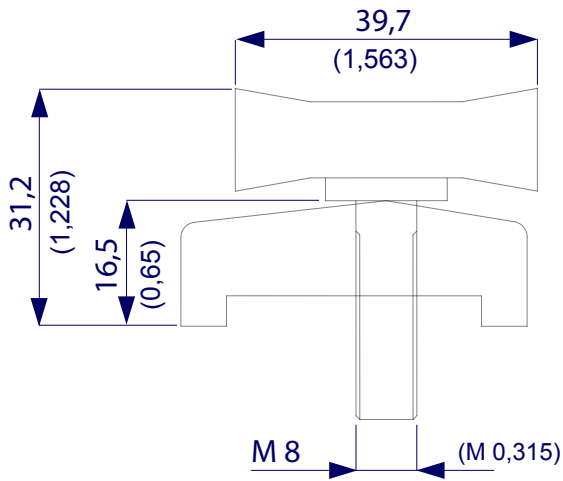
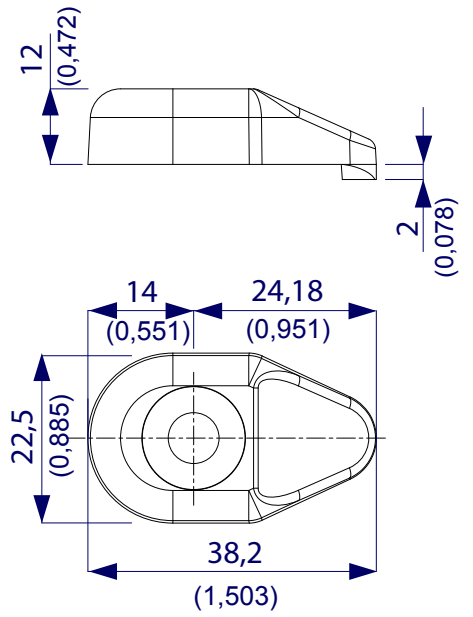


Aluminium panel stop



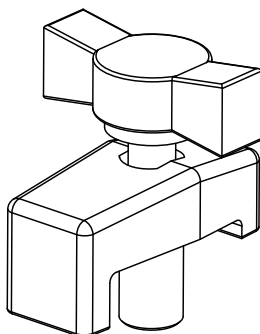
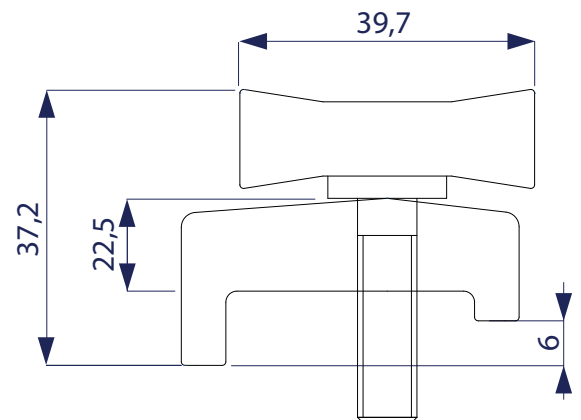
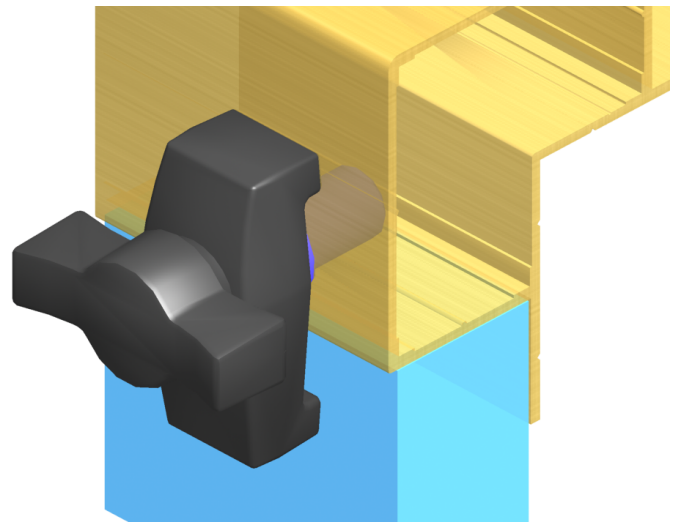
A 40
Box of 400 pcs.
(Complete threaded insert)

with

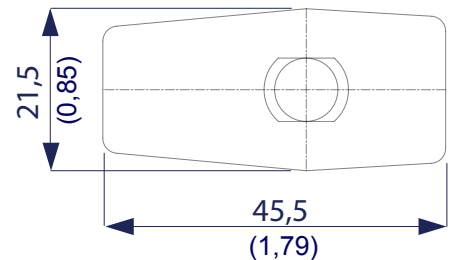


DN 42

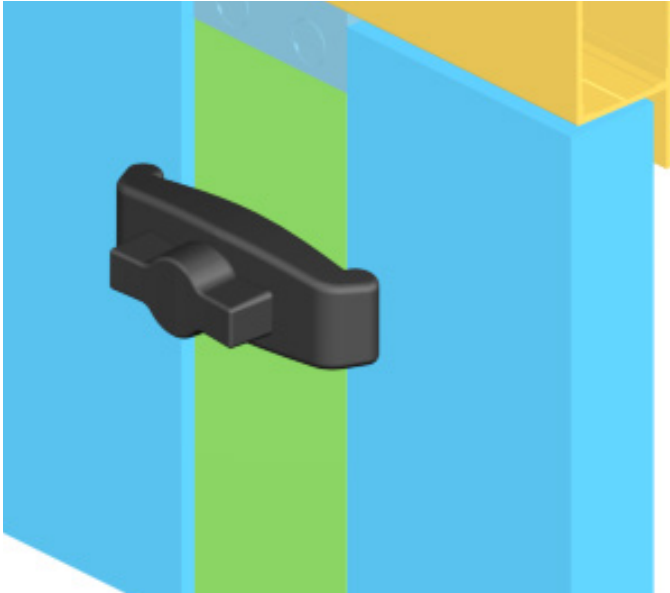
Box of 300 pcs.
(Complete with threaded insert)



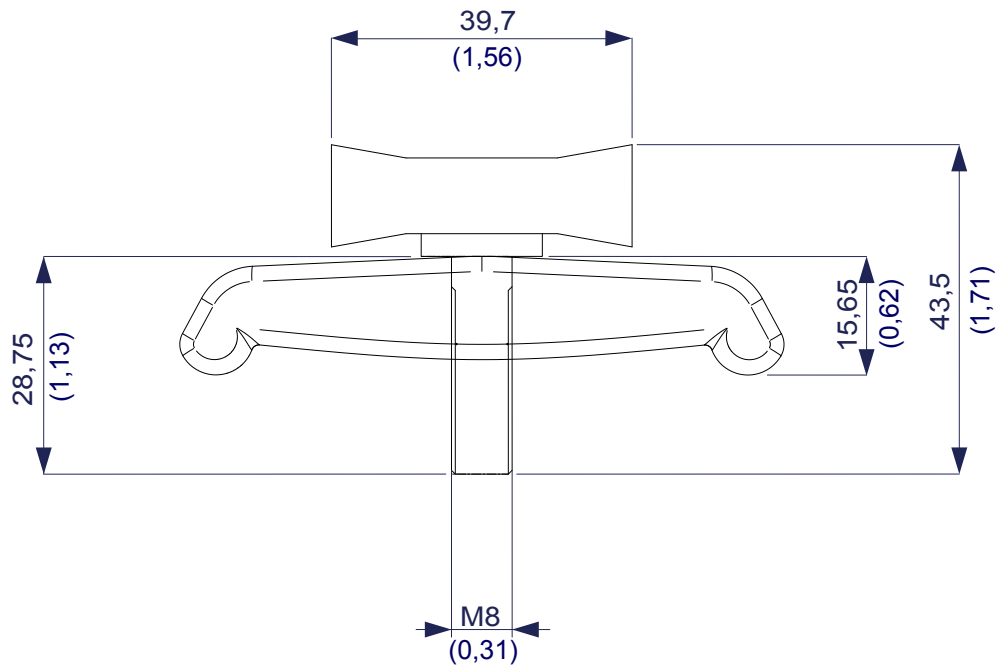
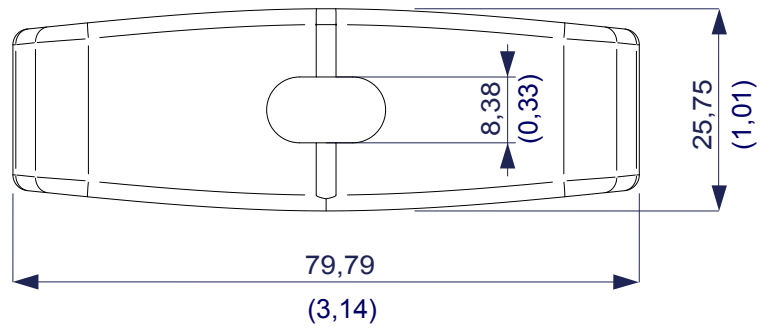
DN 42 PS
Box of 300 pcs.
(Complete with threaded insert)



Aluminium panel stop



DN 42 D
Box of 300 pcs.



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

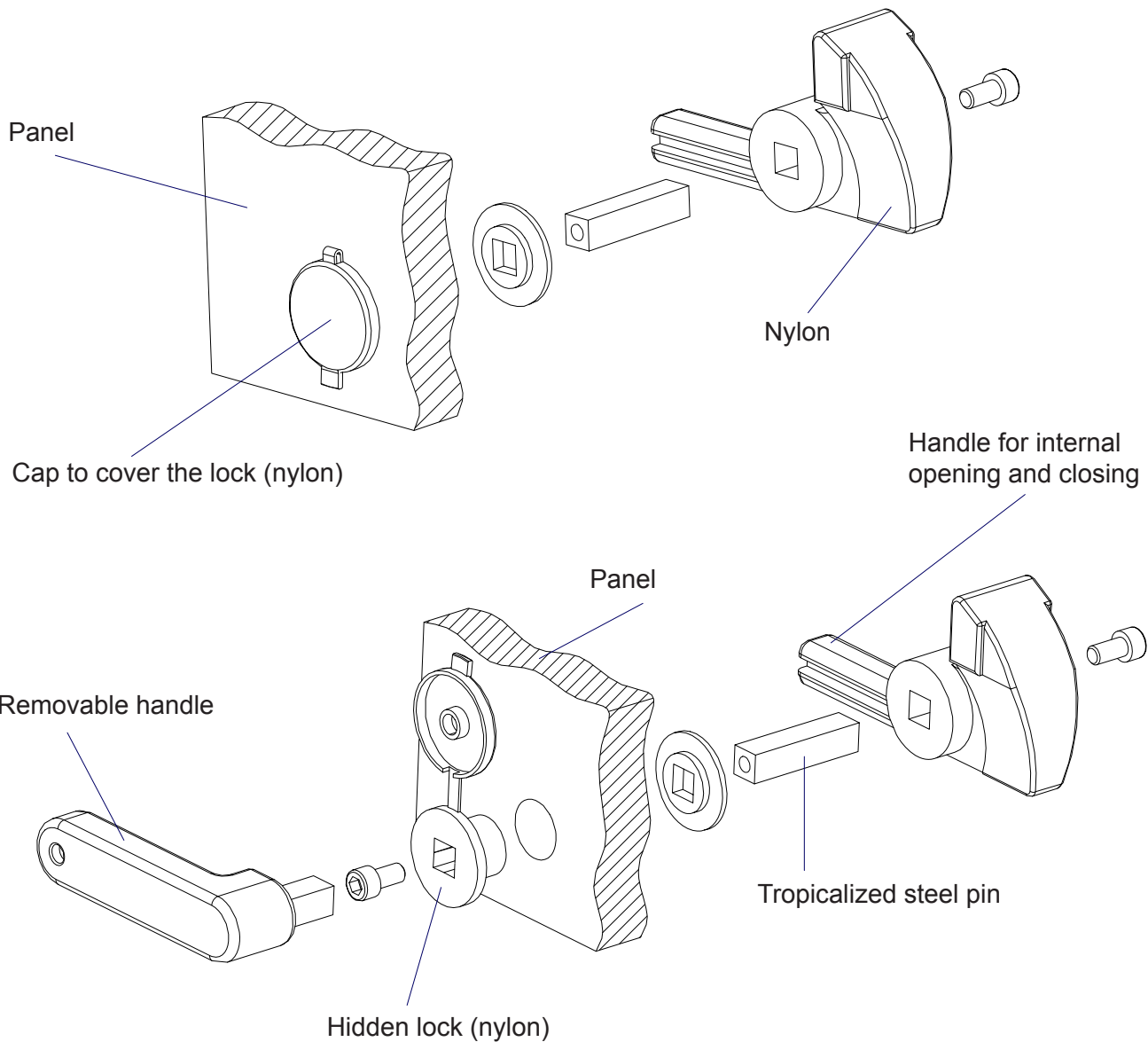
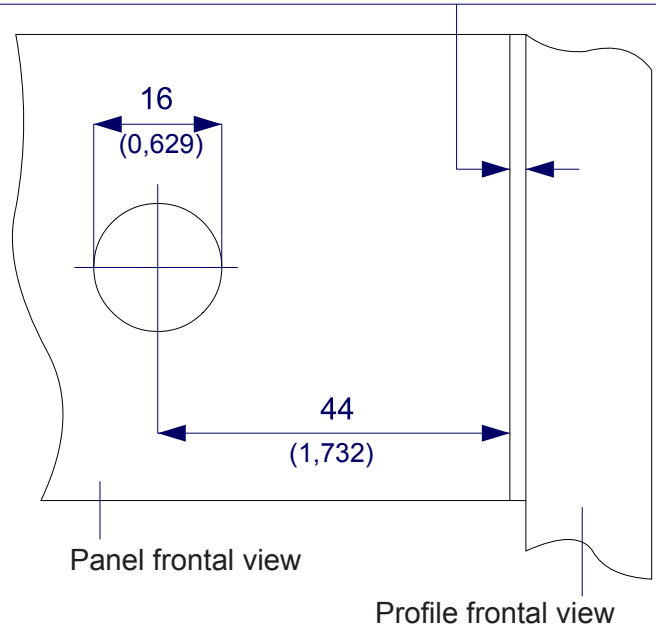
DN SF 14-17 Lock Box of 50 pcs.

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.

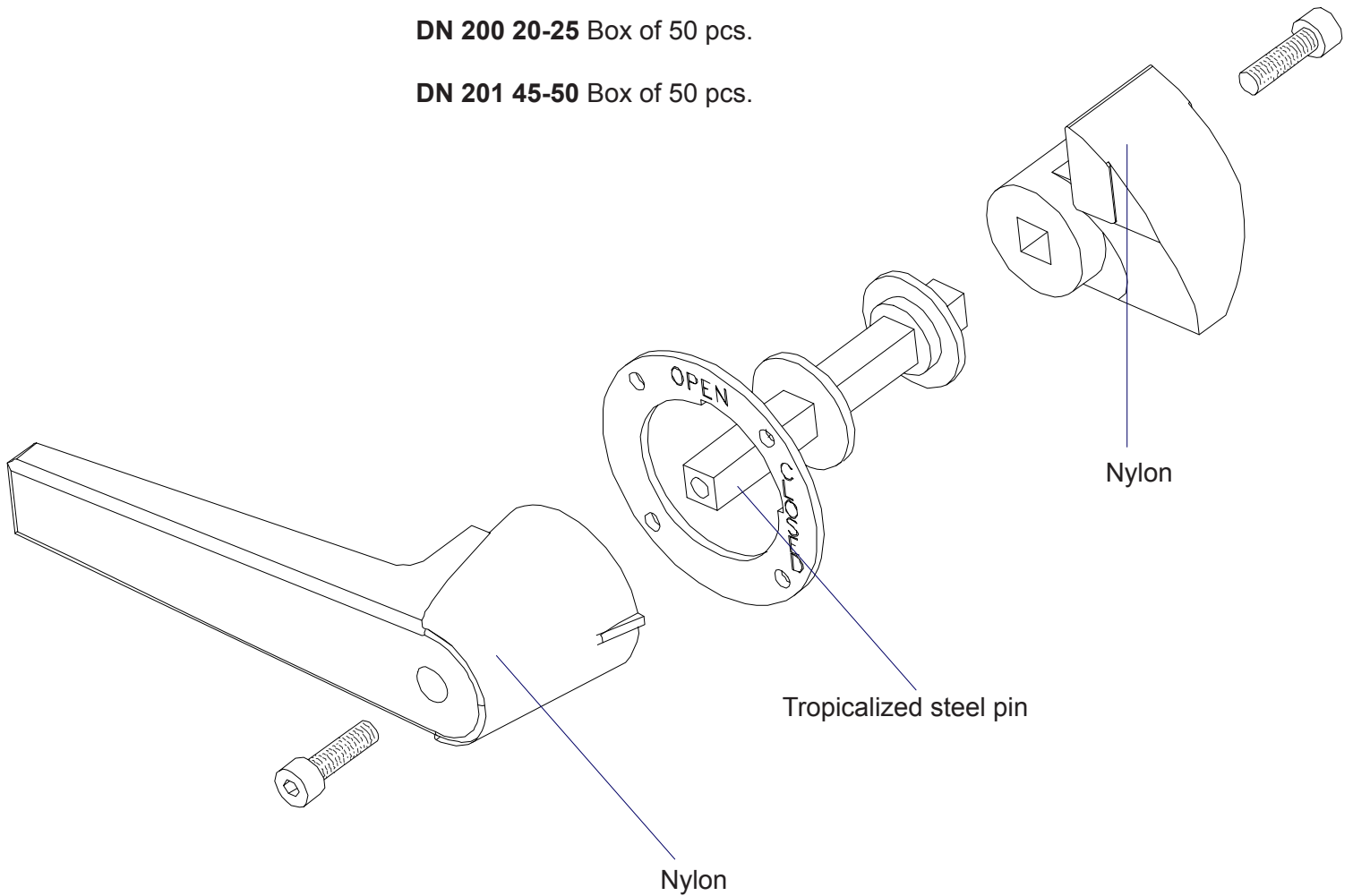
DN SF 49-54 Lock Box of 50 pcs.



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

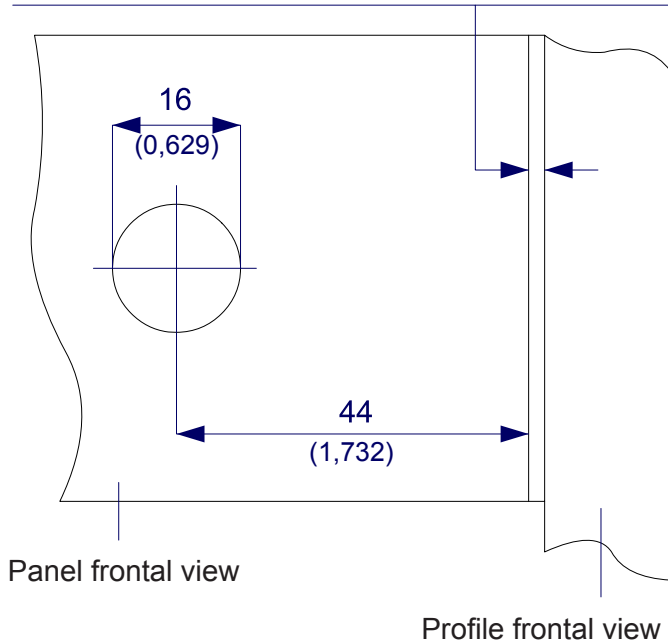
DN 200 20-25 Box of 50 pcs.

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



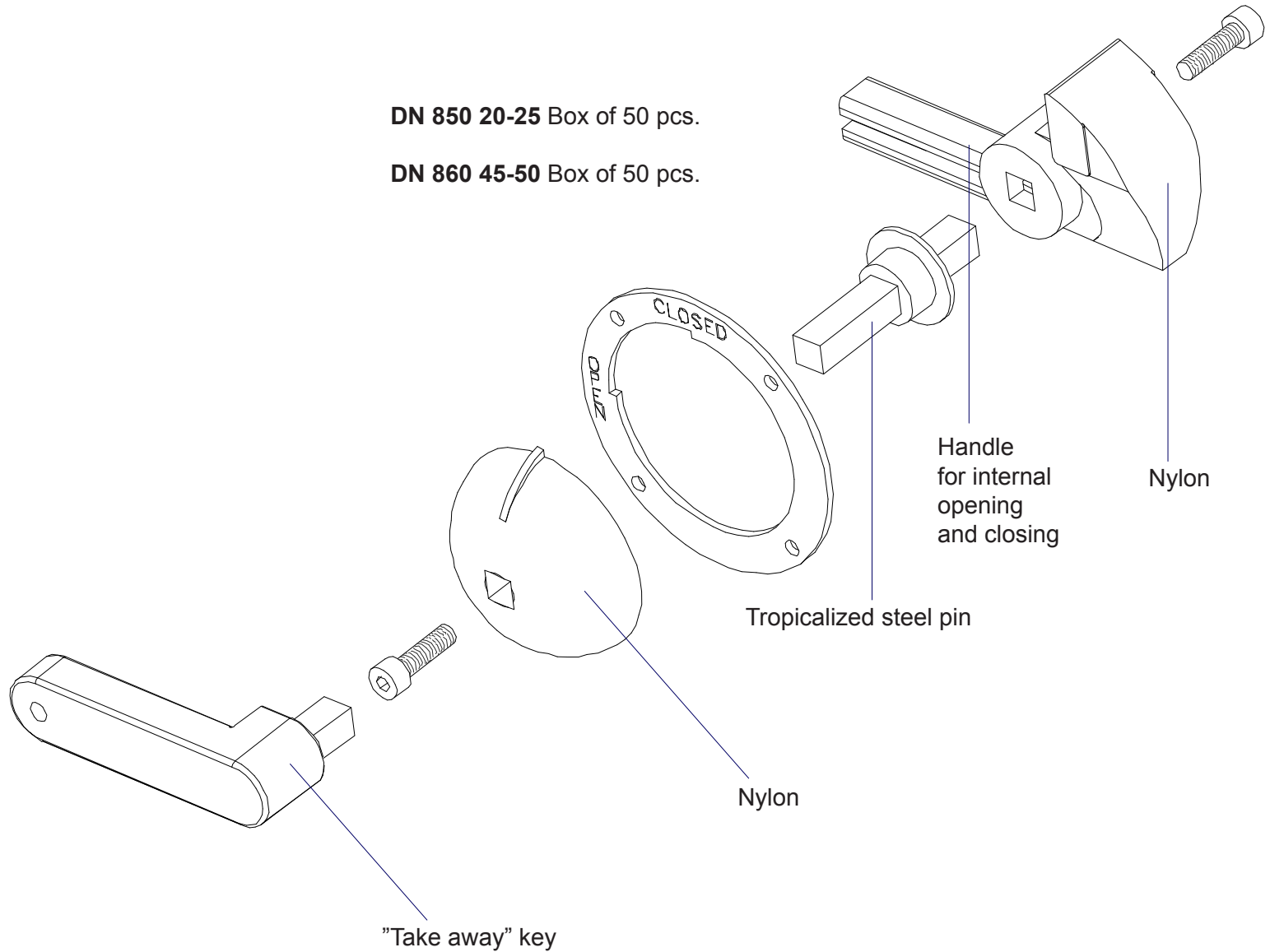
Available pins

- 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

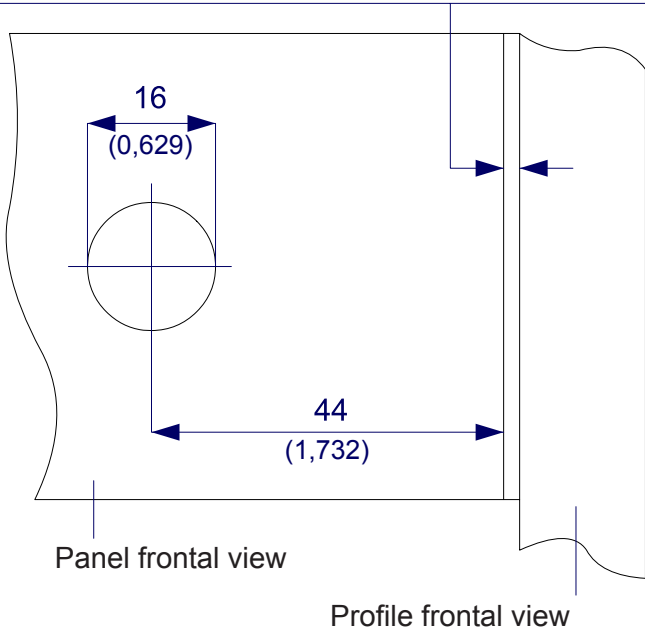
DN 850 20-25 Box of 50 pcs.

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



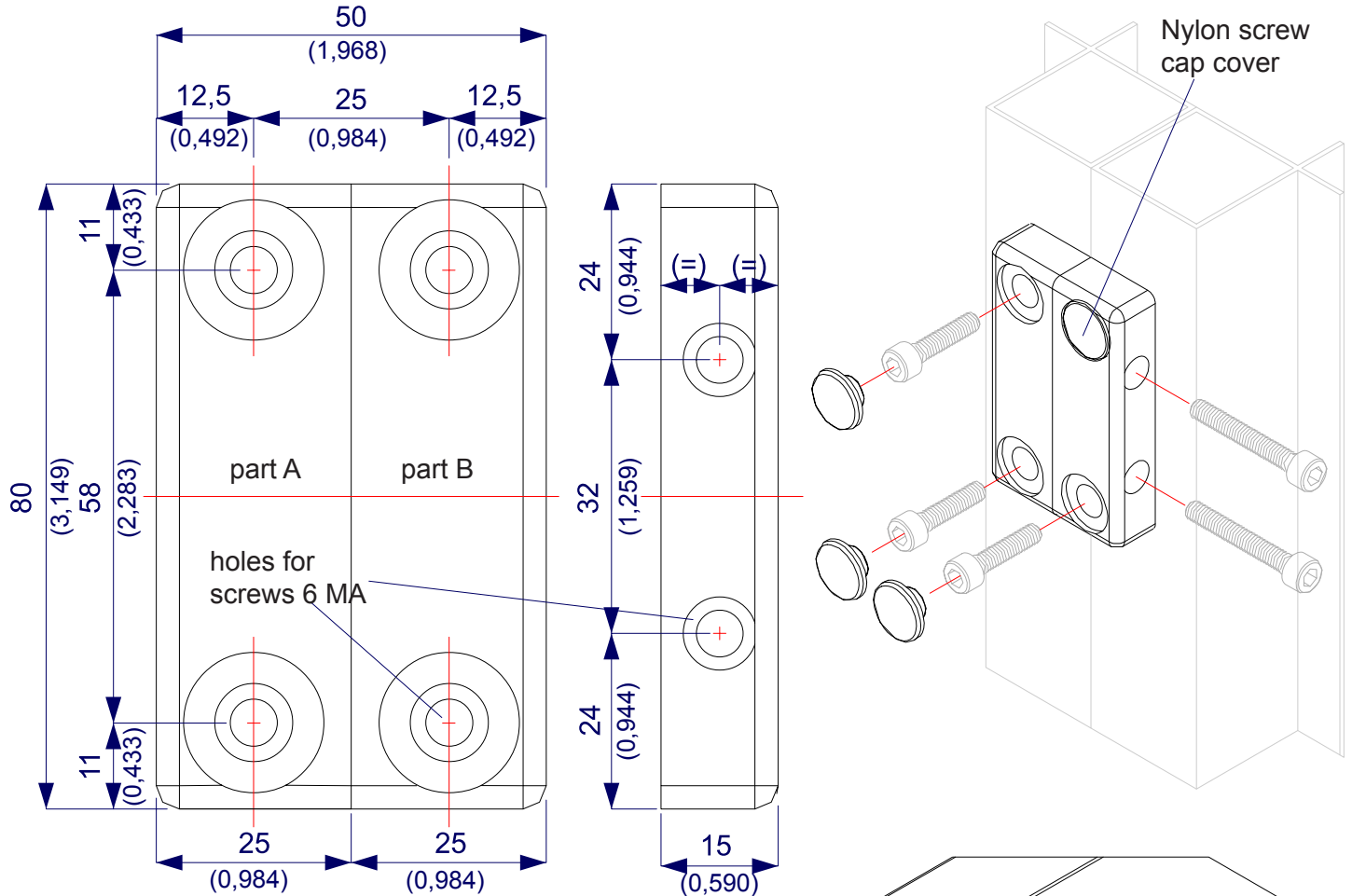
Available pins

- 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

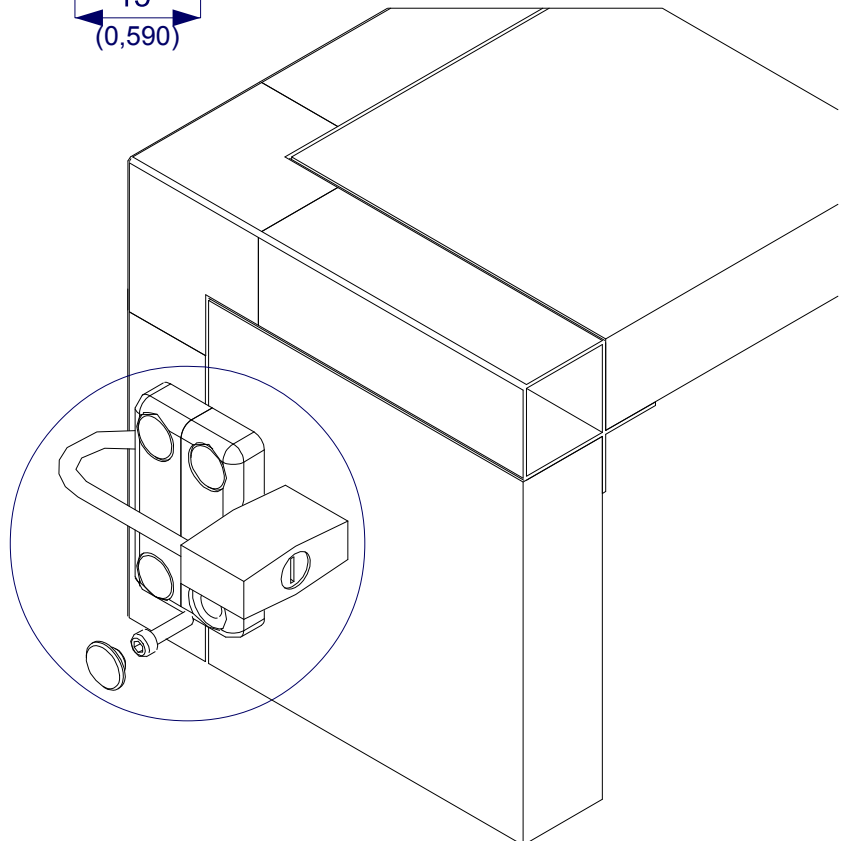
ACB 80x50

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

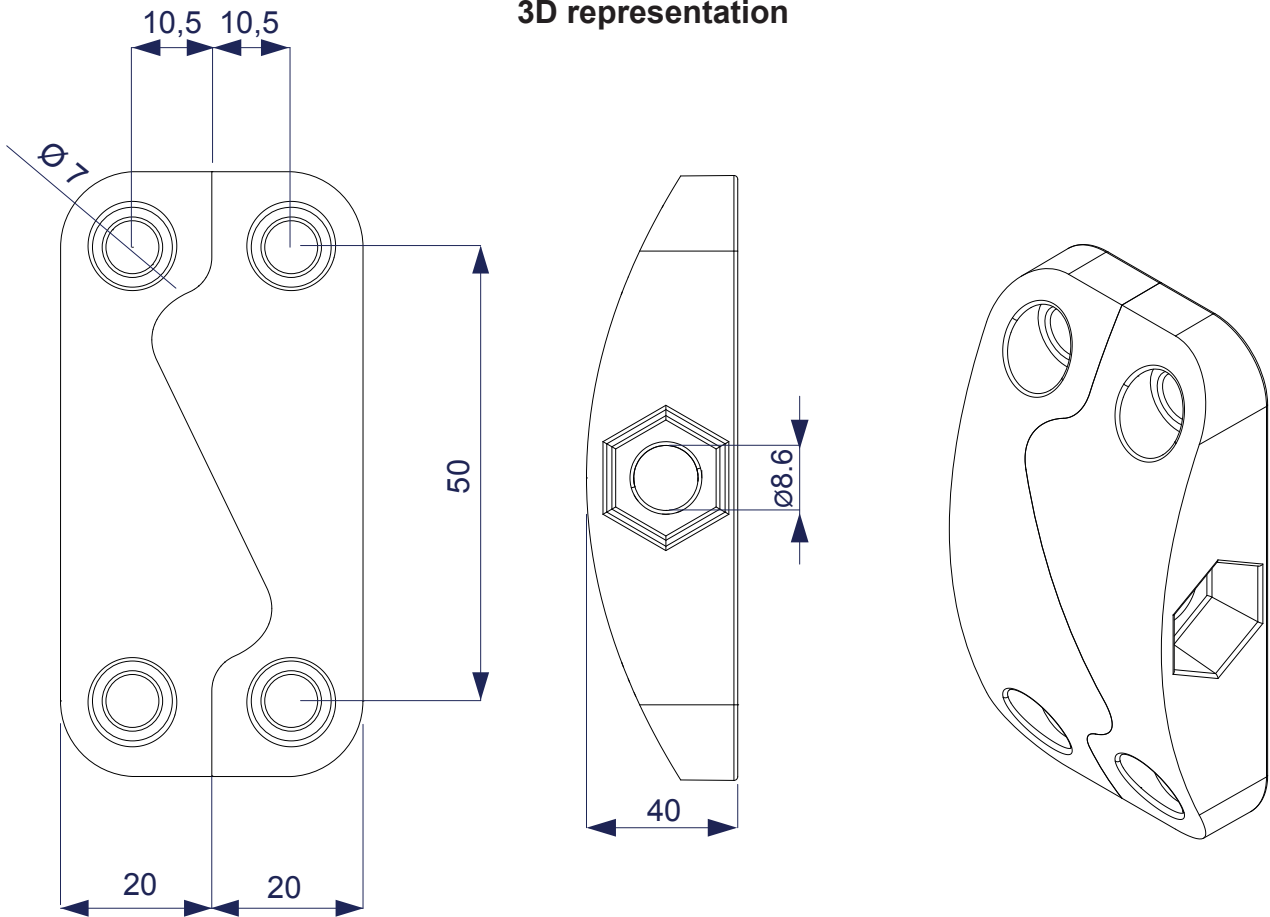


ACB 80x50 P

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

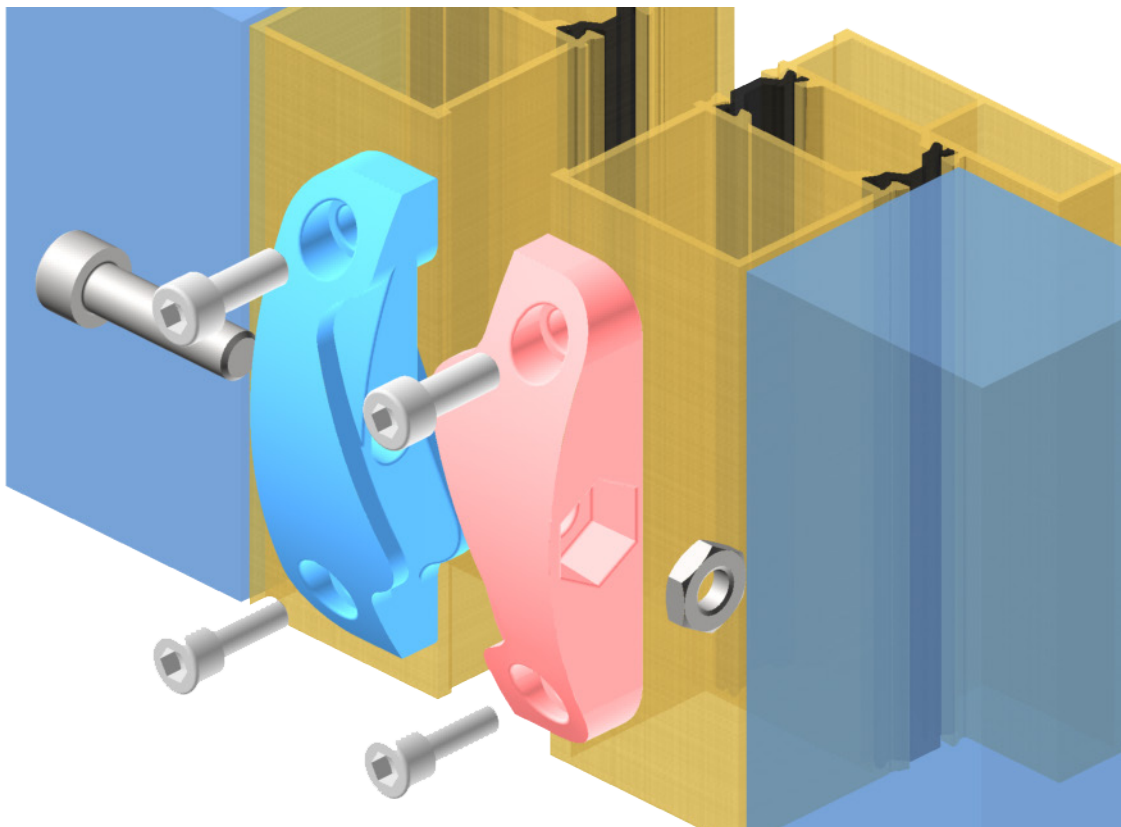


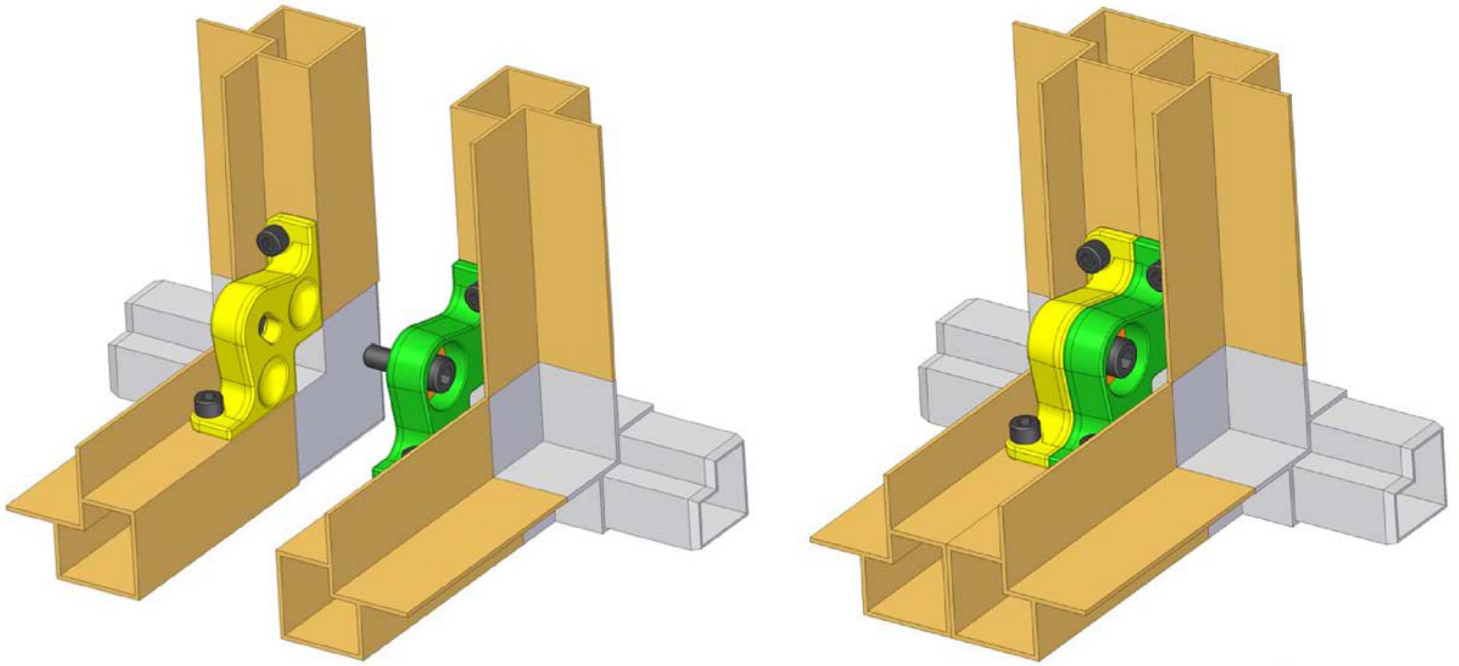
3D representation



ACB 80x40

Zamak connecting bracket for
unit section
Box of 75 pcs.

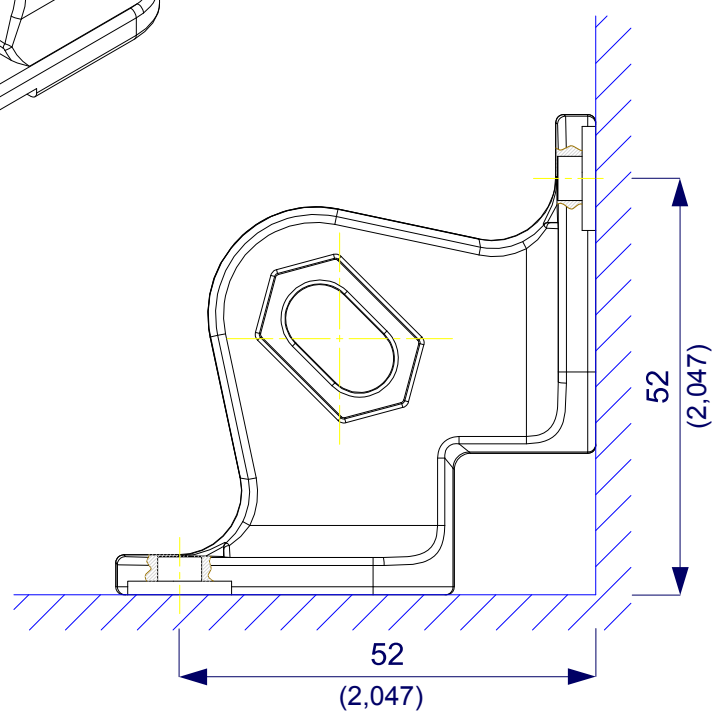
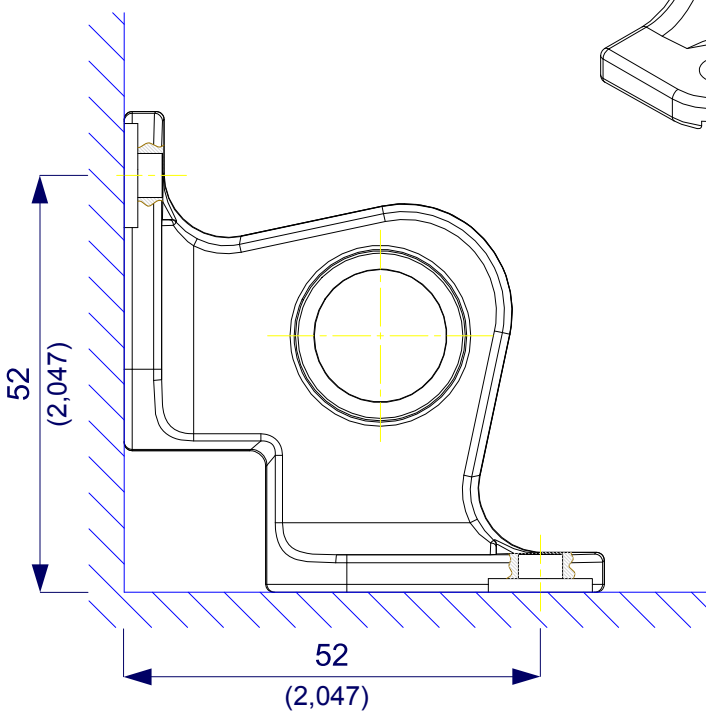
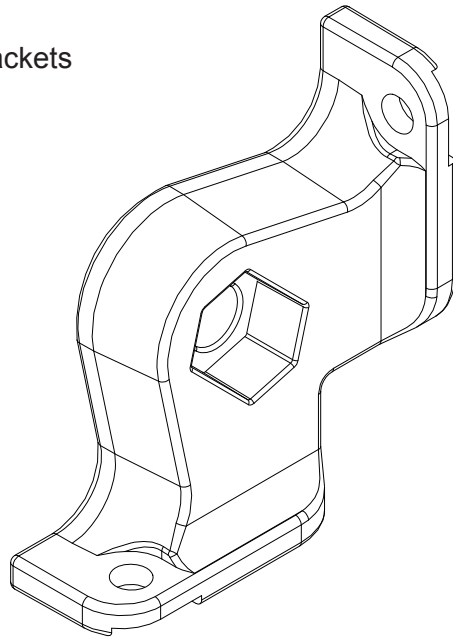


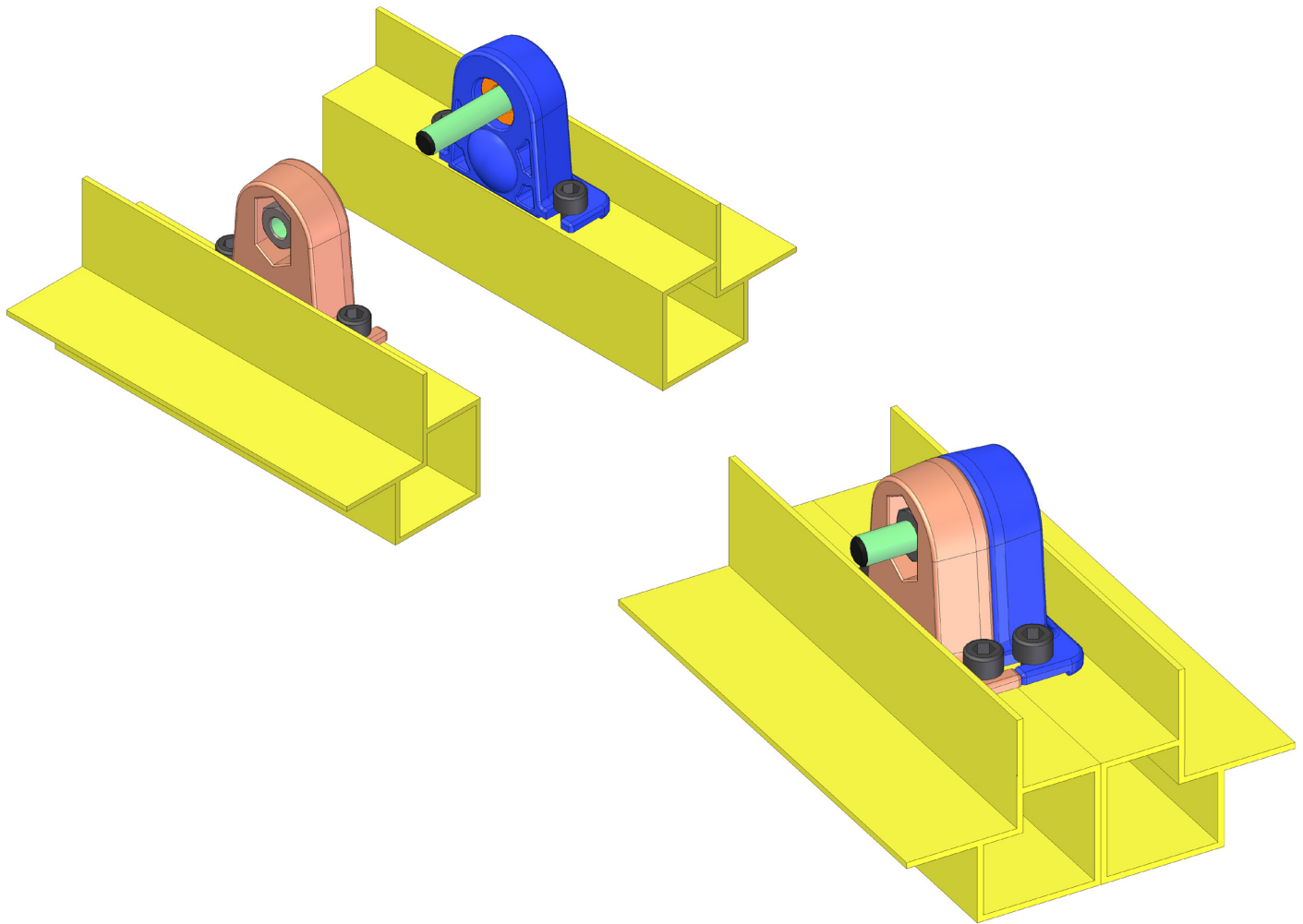


ACB-C1

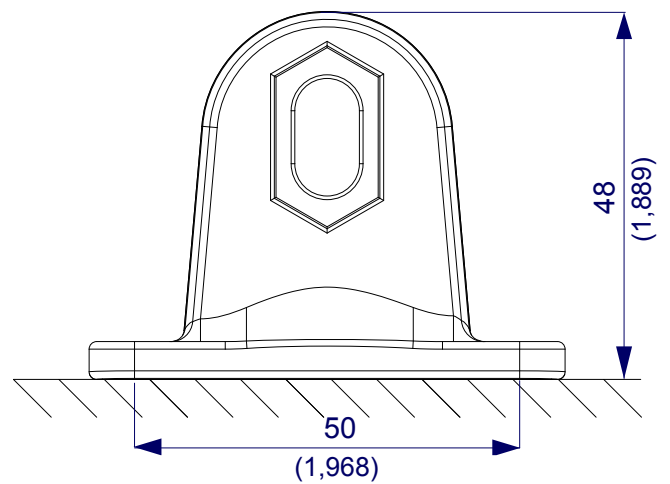
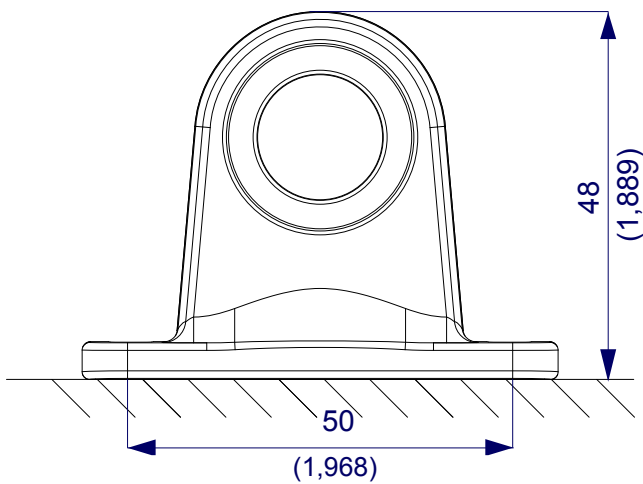
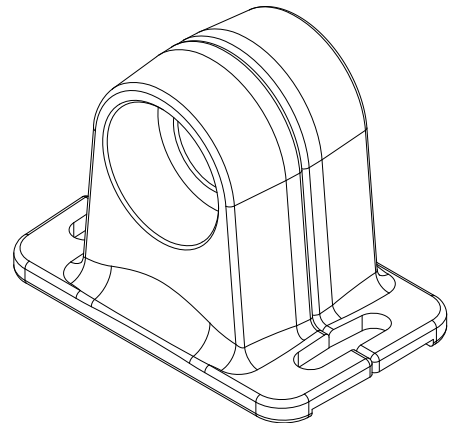
Aluminium connecting and centering brackets

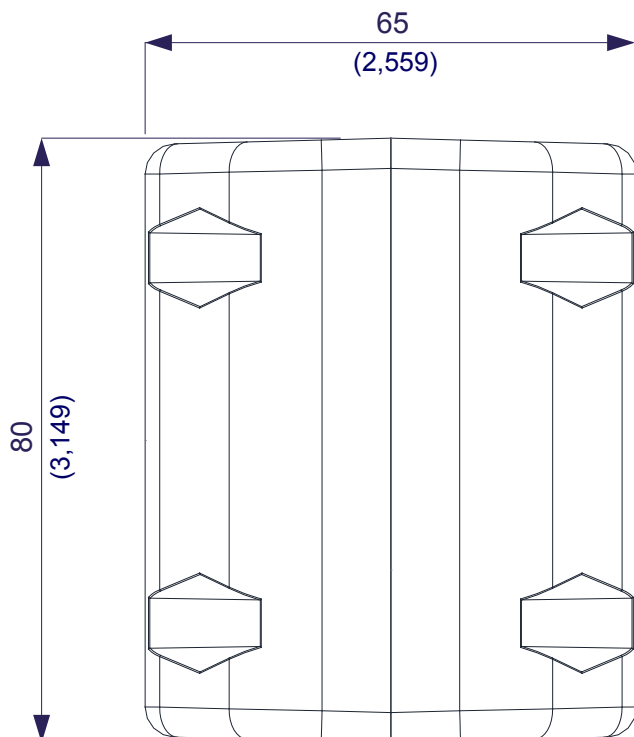
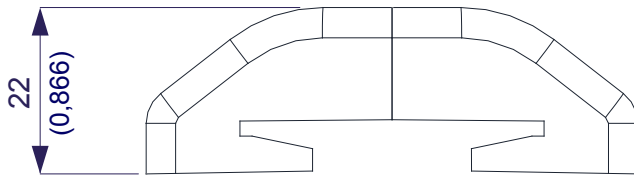
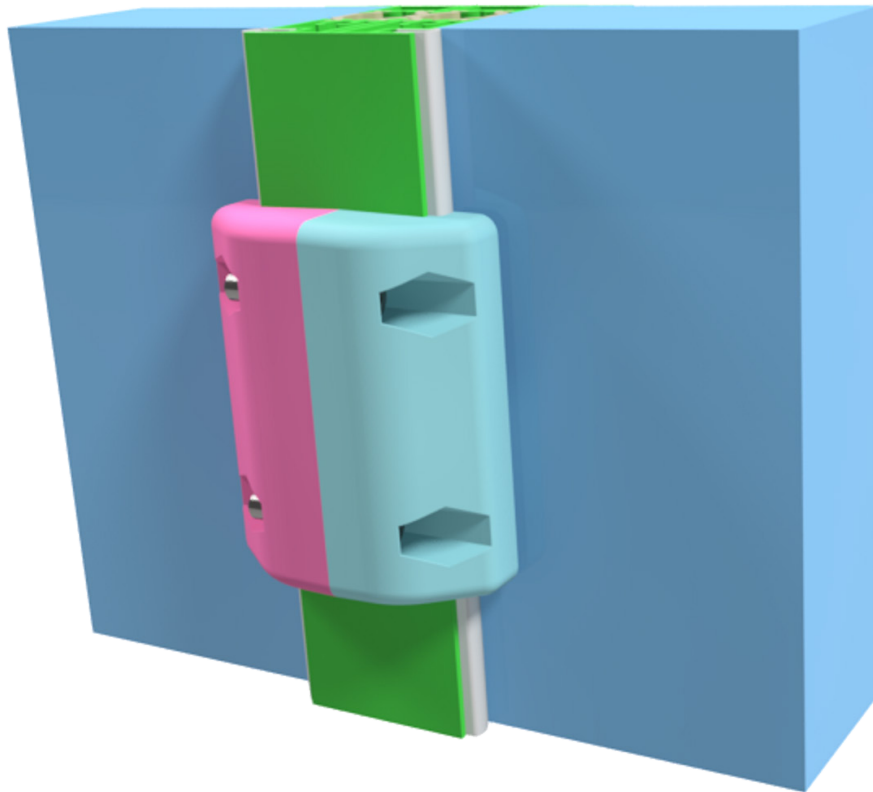
Box of 90 pcs.





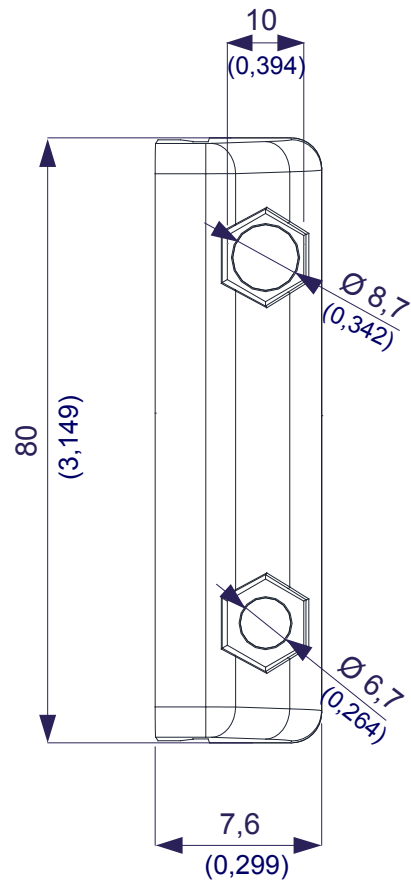
ACB-M1
Aluminium connecting and centering clamps
Box of 90 pcs.

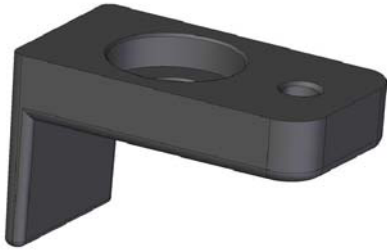




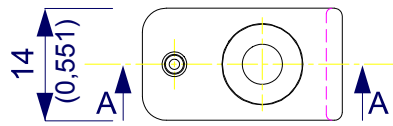
ACB-PS1

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

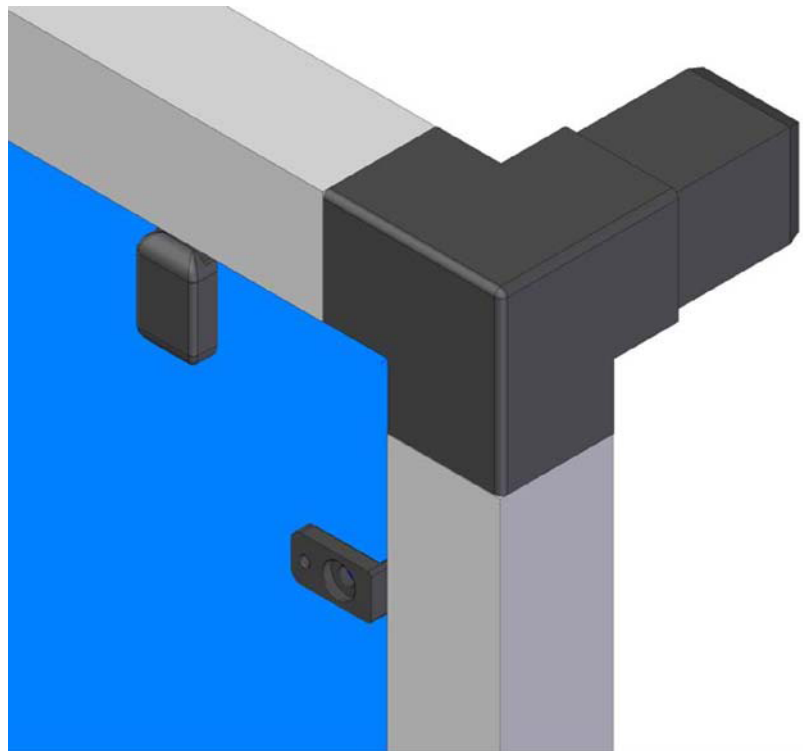
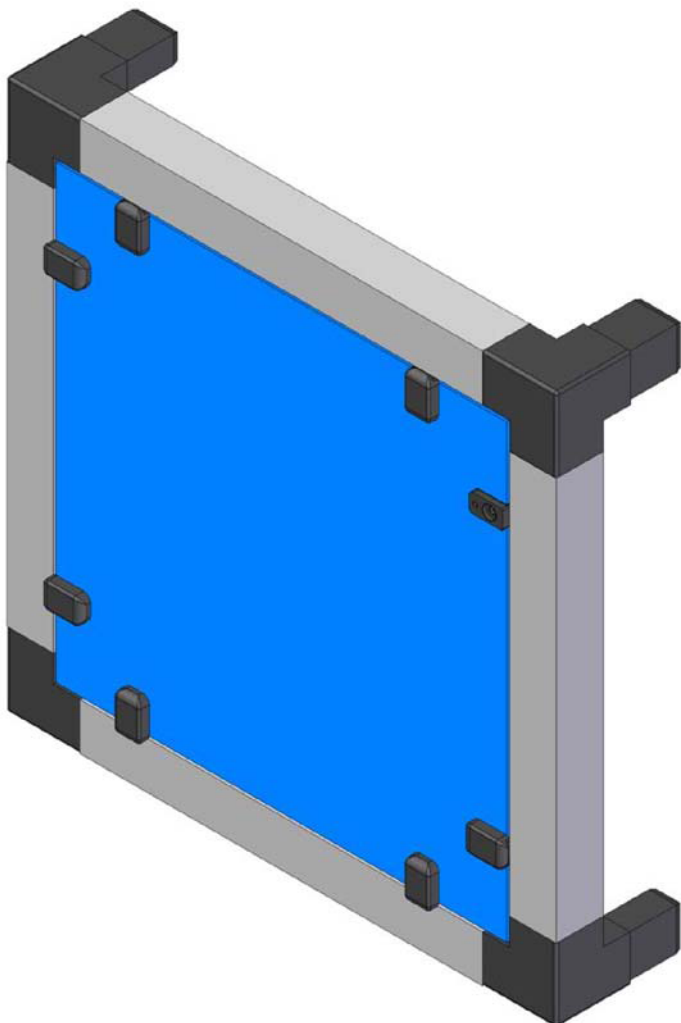
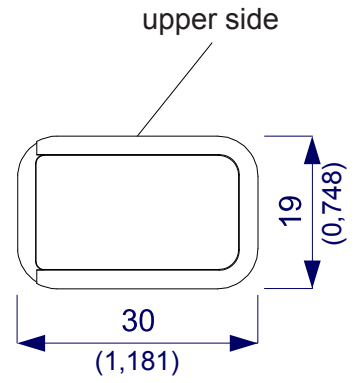
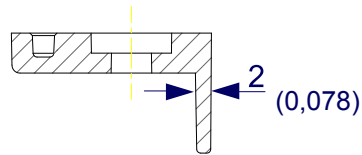


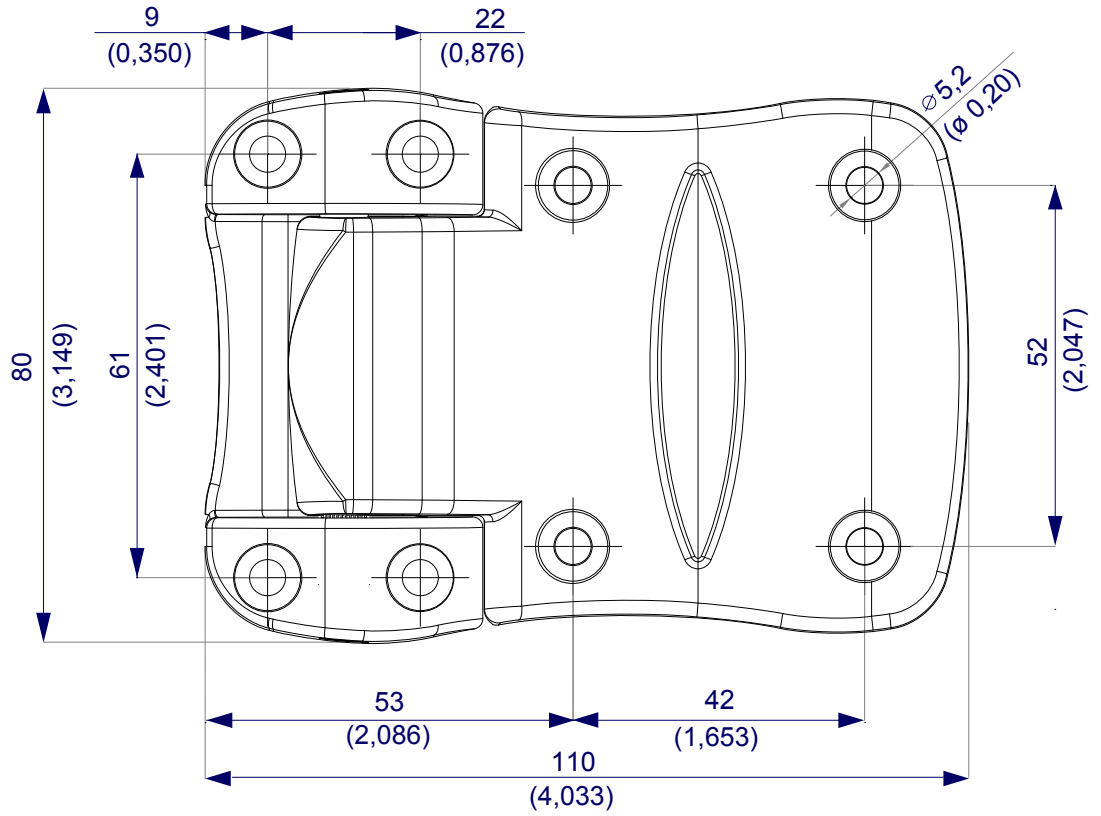


DN 41
Box of 500 pcs.

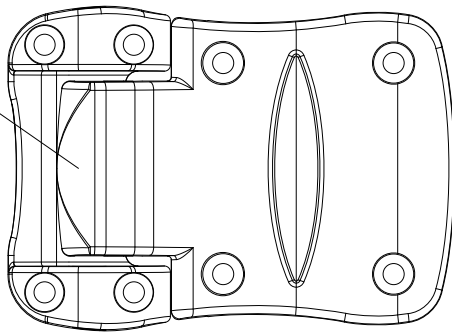


SEZ. A - A



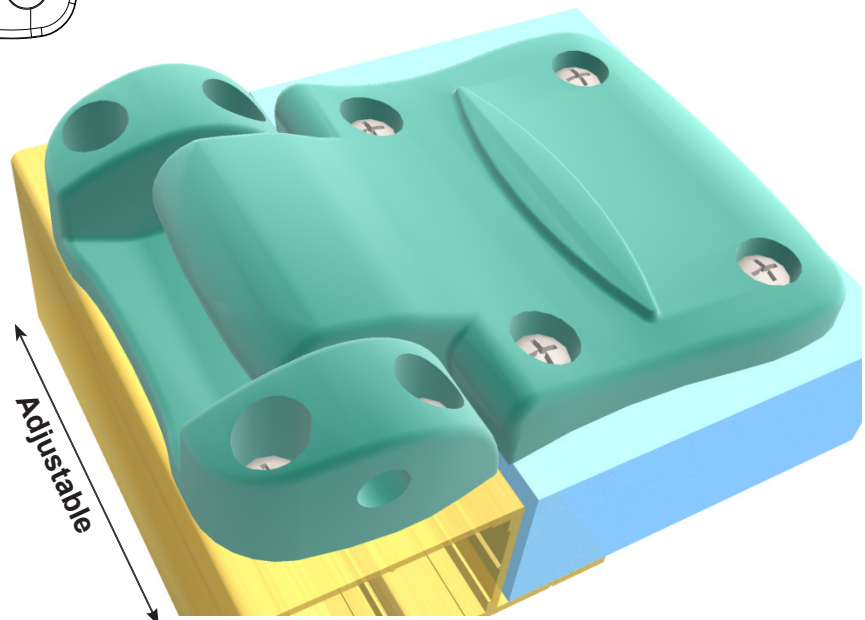


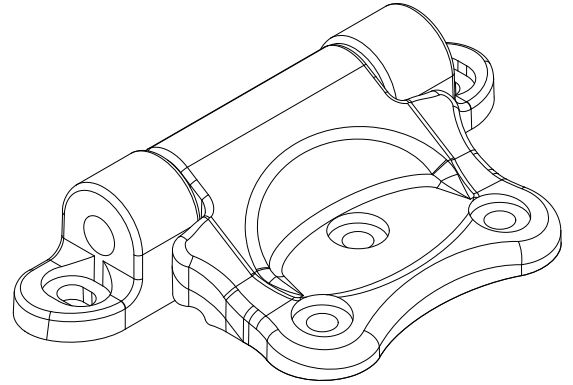
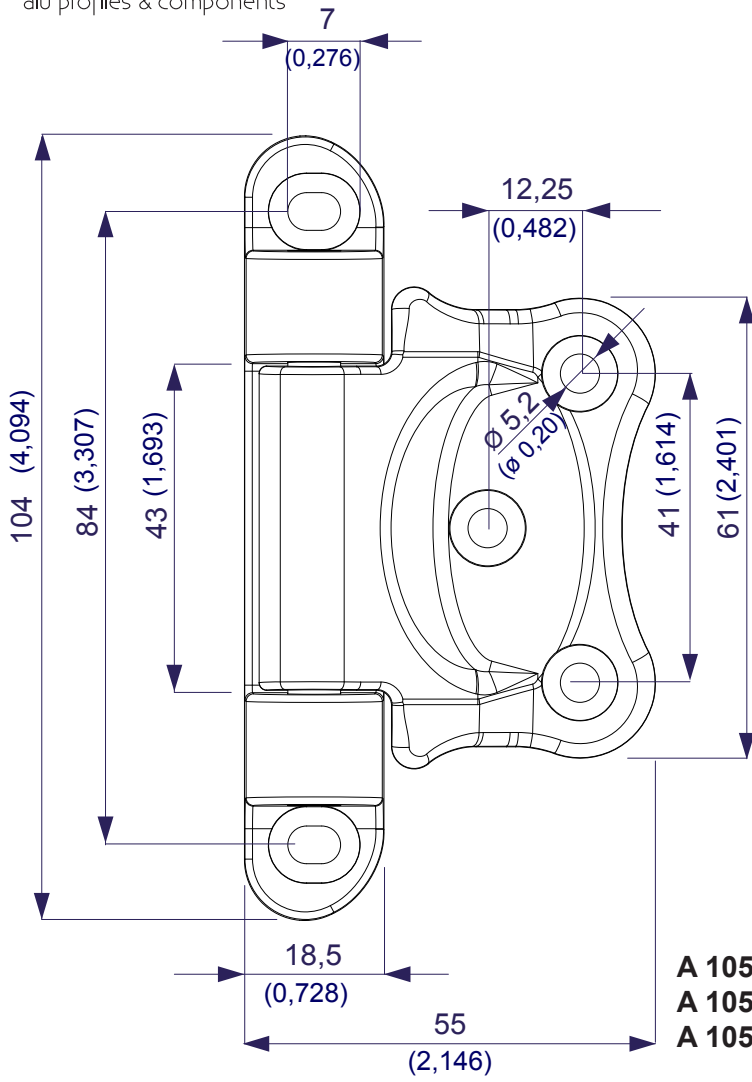
Adjustable part
(up and down)



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

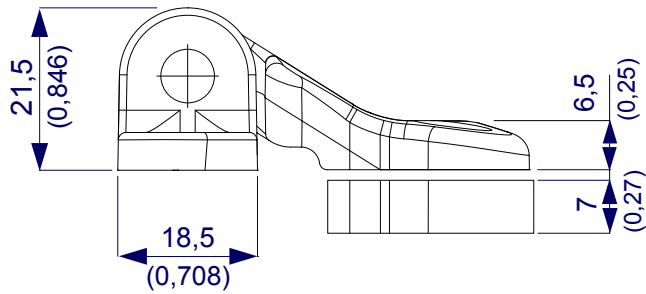
- Box of 50 pcs.
- Box of 50 pcs.
- Box of 50 pcs.



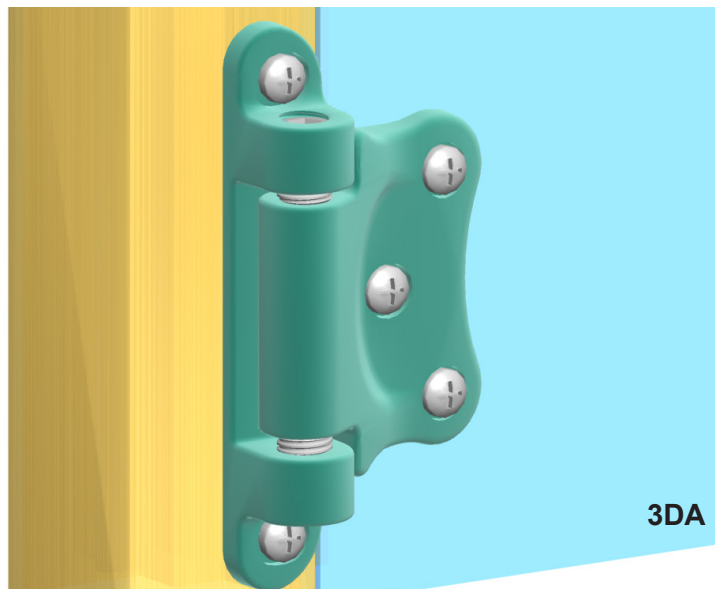


A 105x55
A 105x55-O (Oval hole)
A 105x55 ADJ (Adjustable)

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

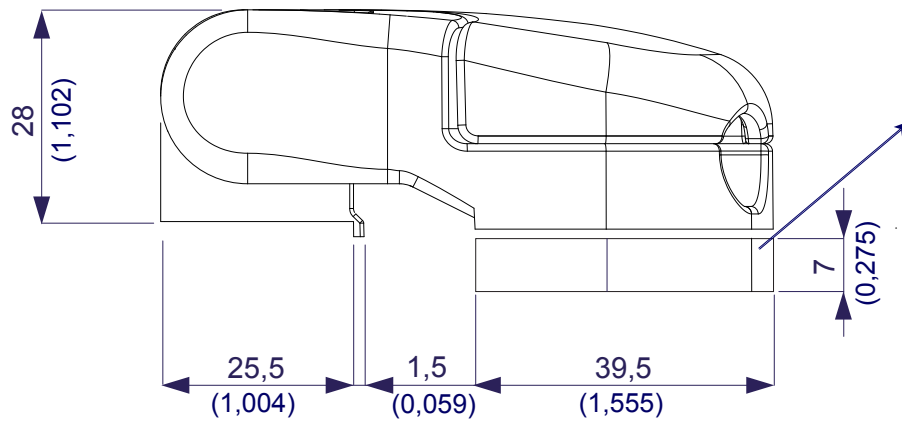
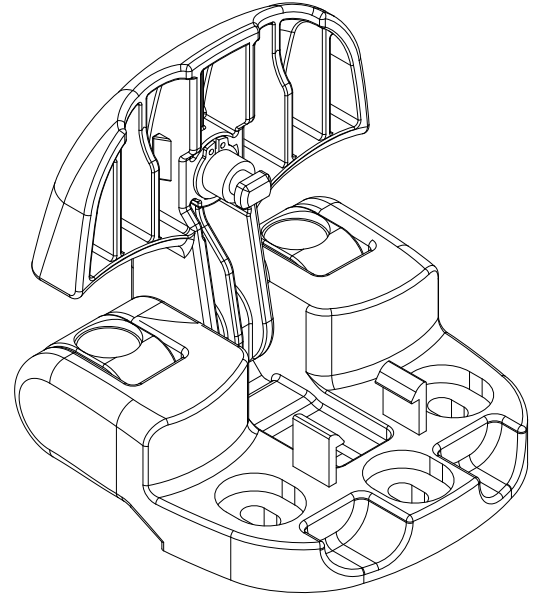
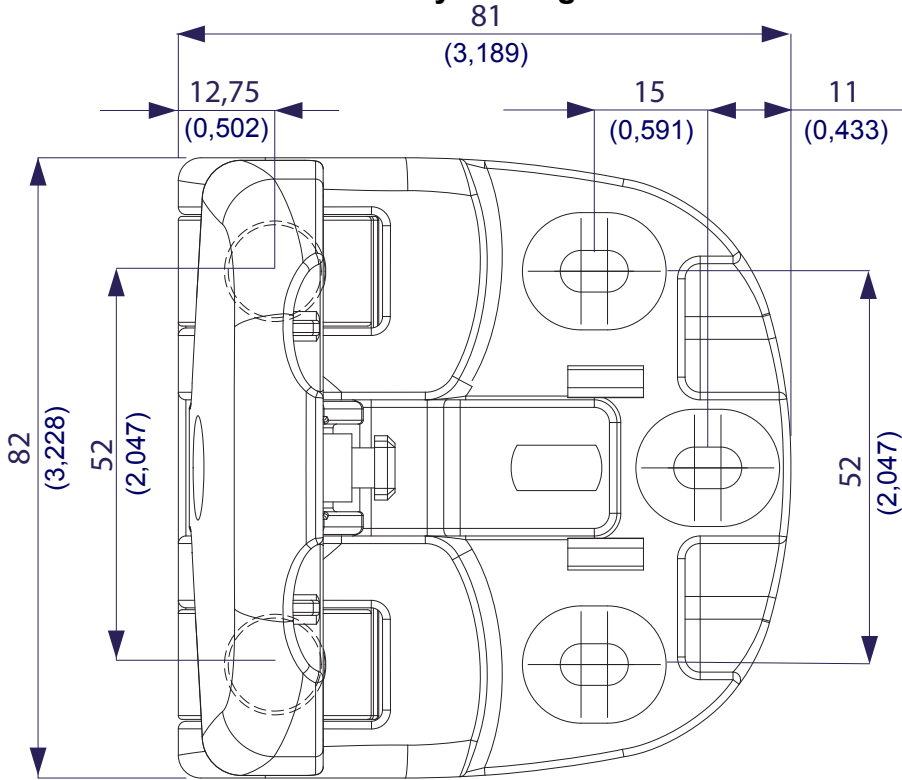


**NYLON SPACER
FOR SYSTEM 55 and 35
NS 7-105**



3DA

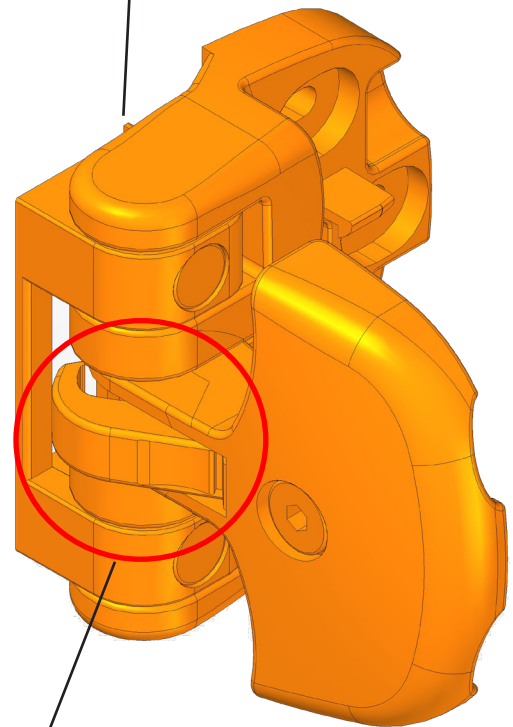
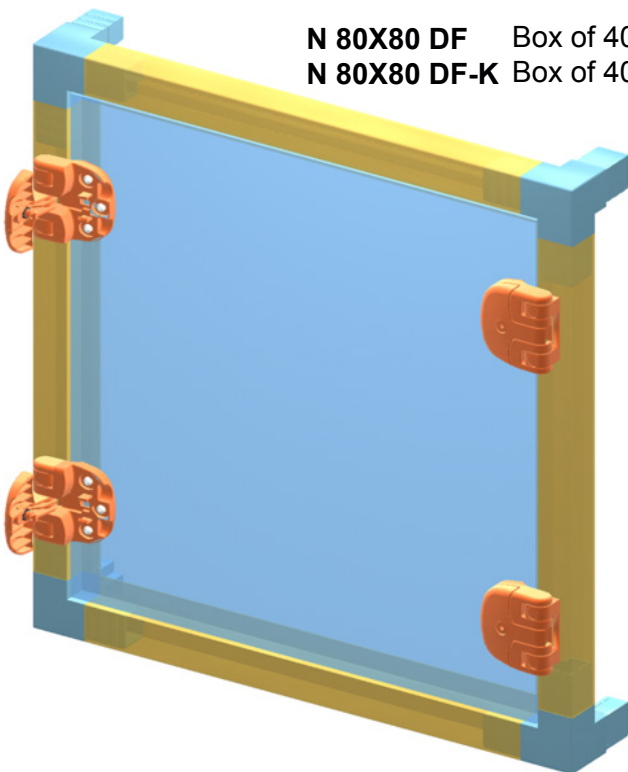
Nylon hinge double function



NYLON SPACER FOR SYSTEM 55 and 35
Other spacers available **NS 7-80**

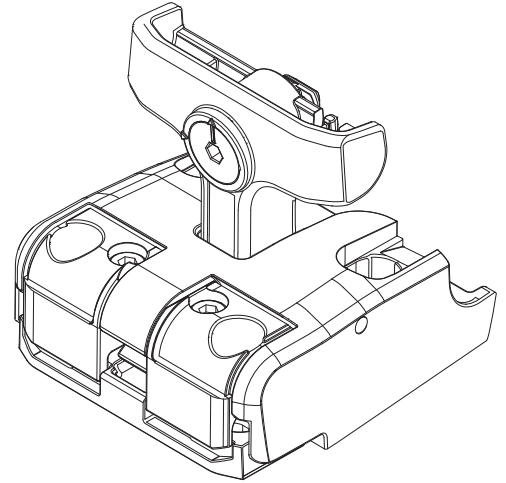
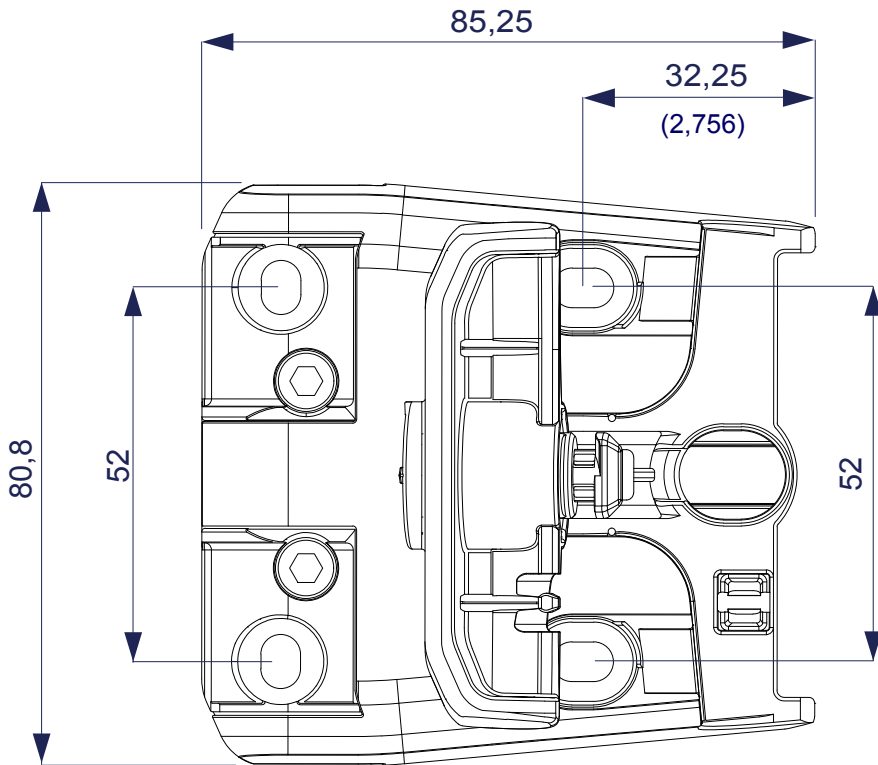
N 80X80 DF-S Box of 40 pcs.
N 80X80 DF-KS Box of 40 pcs.

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

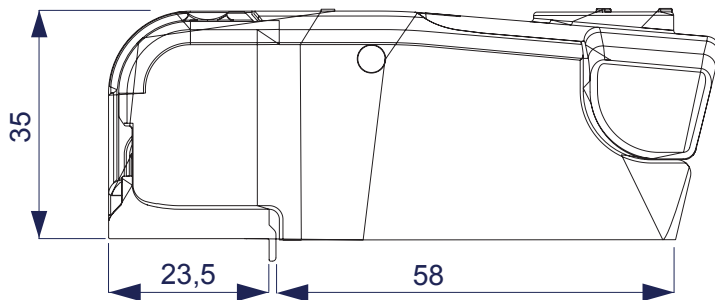


Nylon hinge with pressure button for doors in pressure

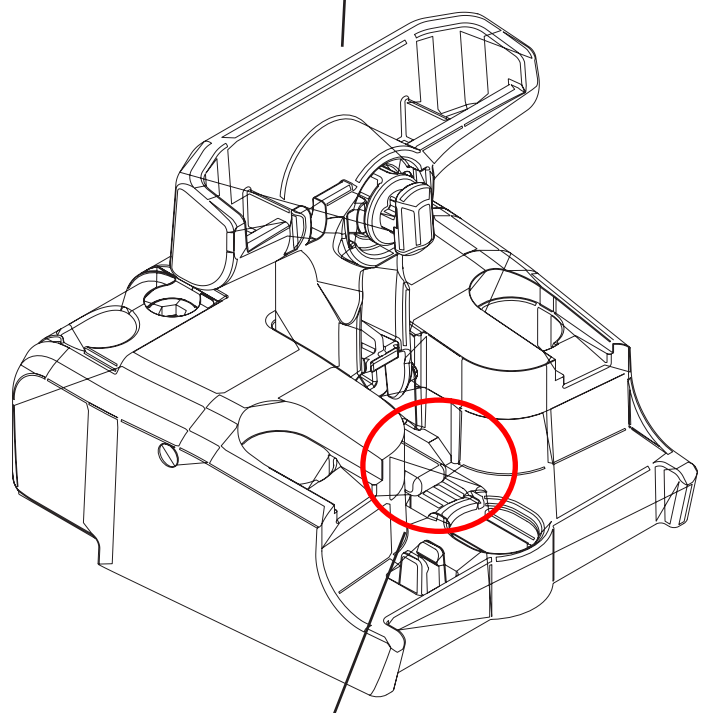
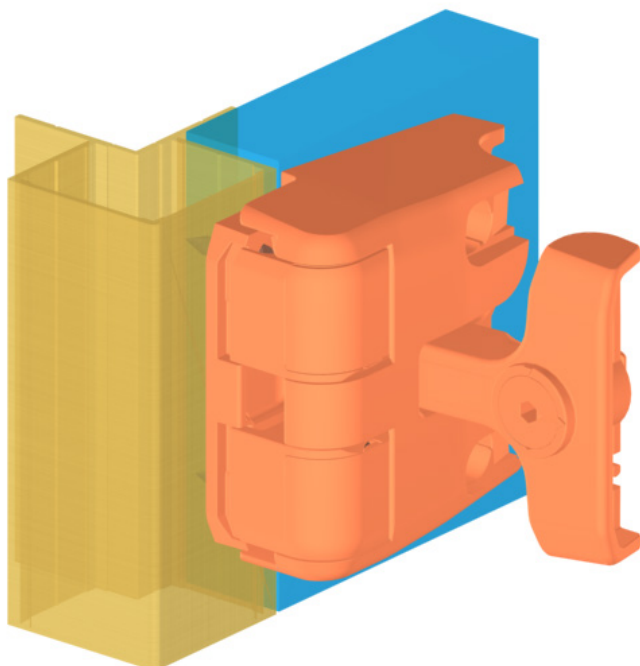
Nylon hinge double function



NZ 90X80 DF ADJ
Box of 40 pcs.

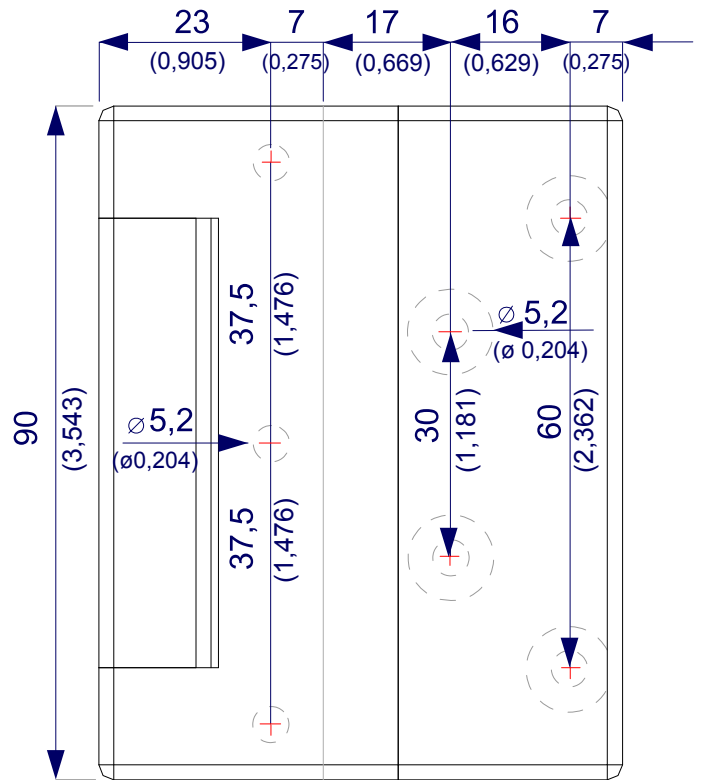
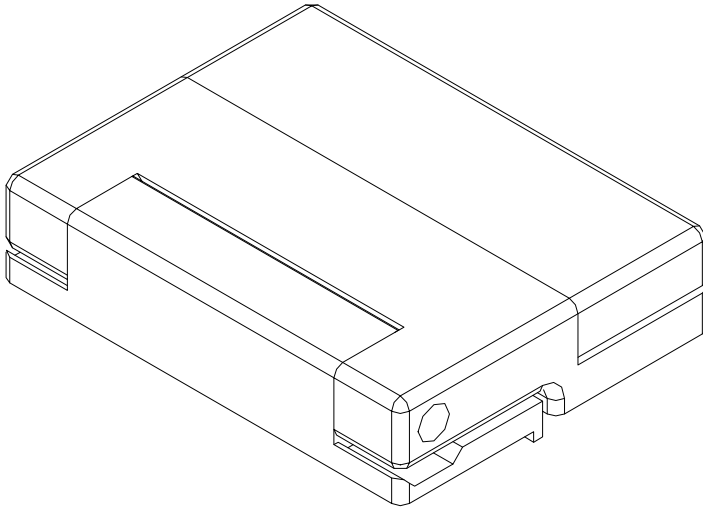


NZ 90X80 DF-S ADJ
Box of 40 pcs.

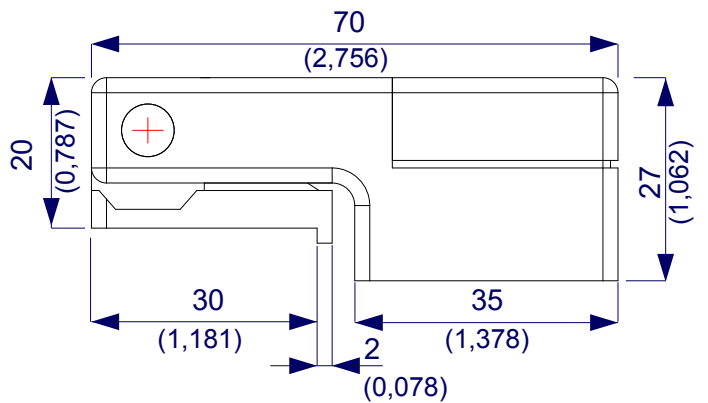
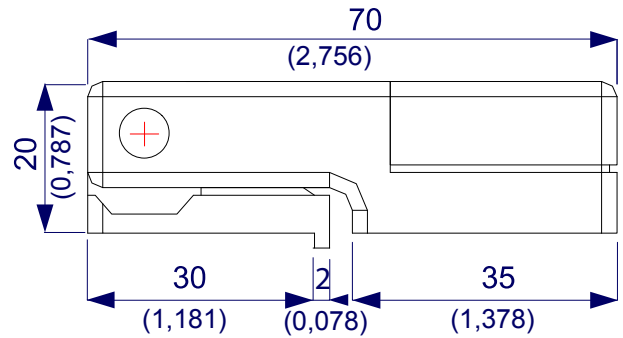
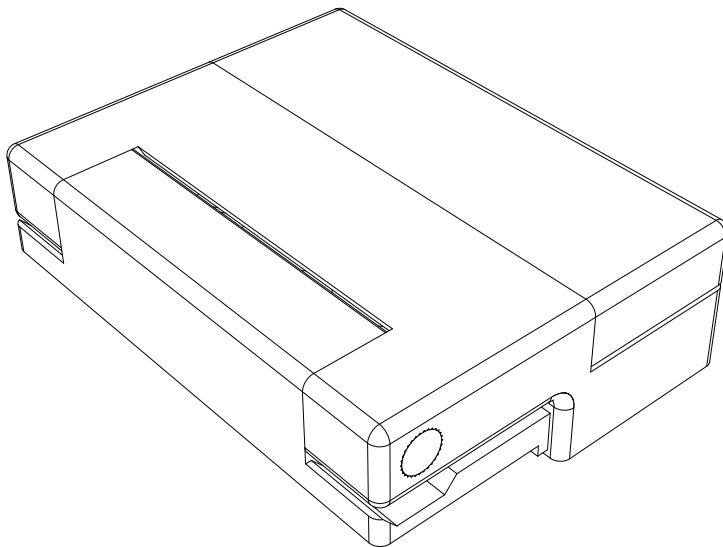


Nylon hinge with pressure button
for doors in pressure

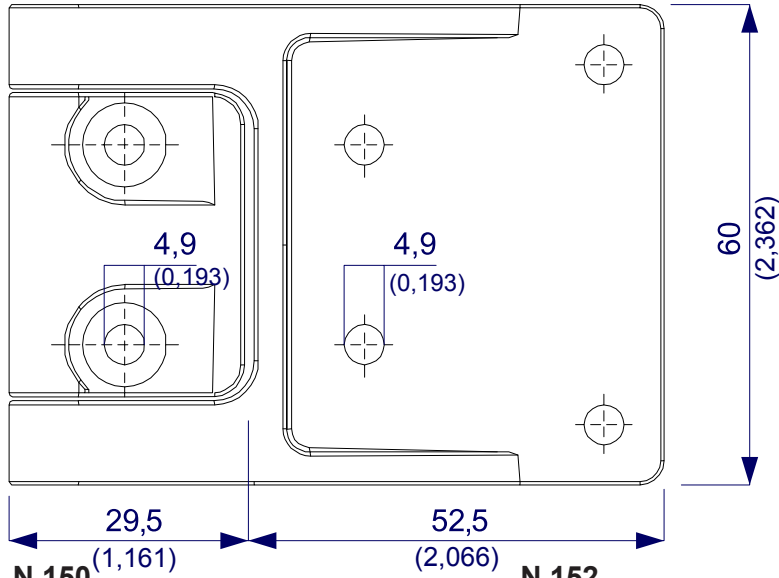
N 90x70
Nylon hinge
Box of 75 pcs.



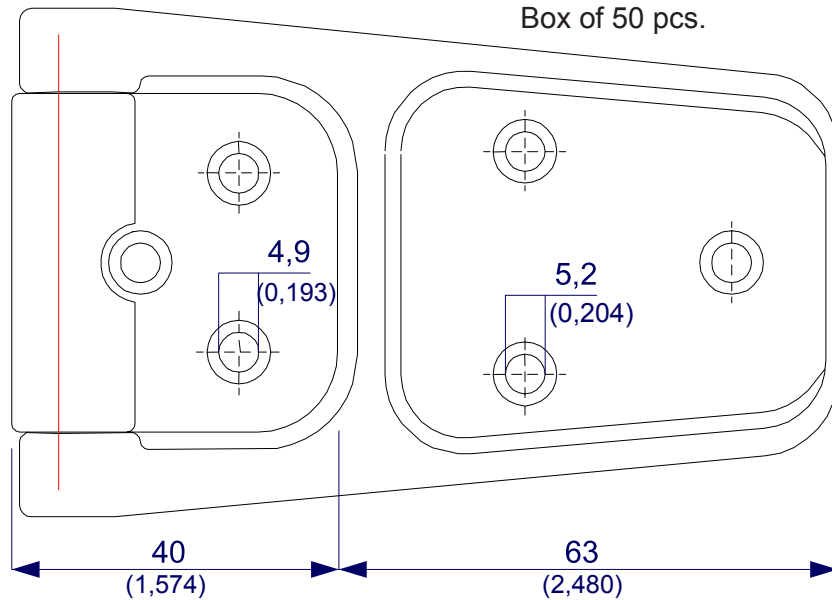
N 90x70 PS
Nylon hinge
Box of 70 pcs.



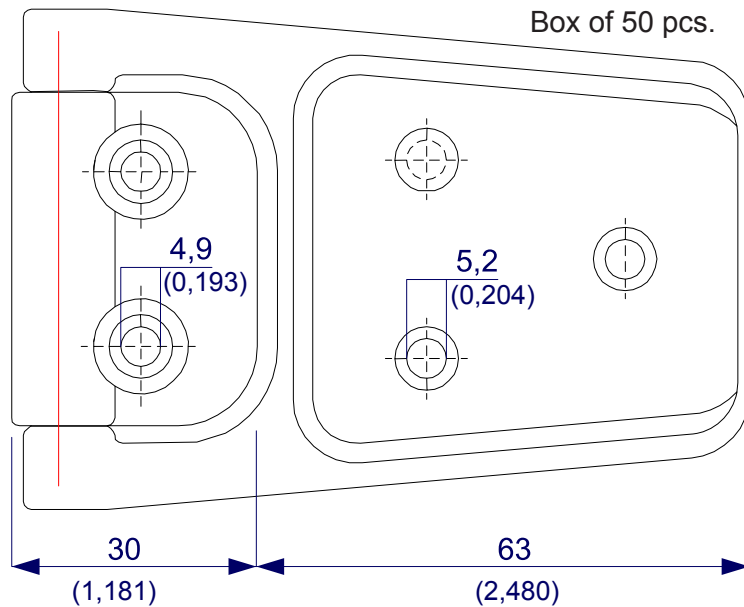
A 151 Aluminium hinge
Box of 100 pcs.



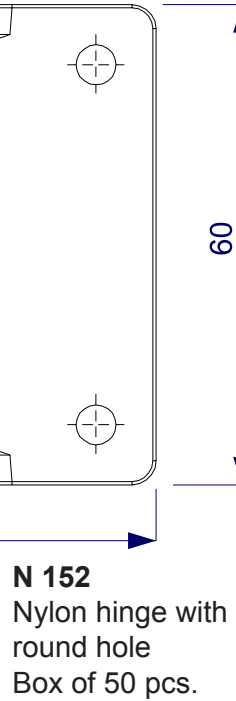
N 150 Nylon hinge with oval hole
Box of 50 pcs.



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

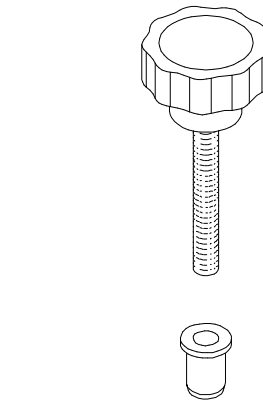


N 153 Nylon hinge
Box of 100 pcs.

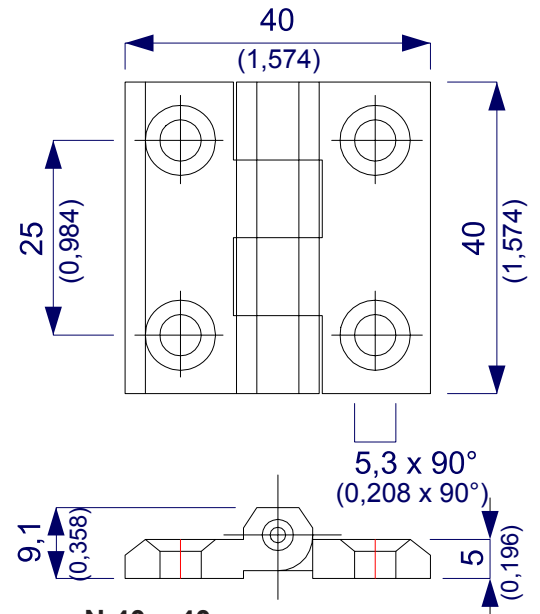


N 152 Nylon hinge with round hole
Box of 50 pcs.

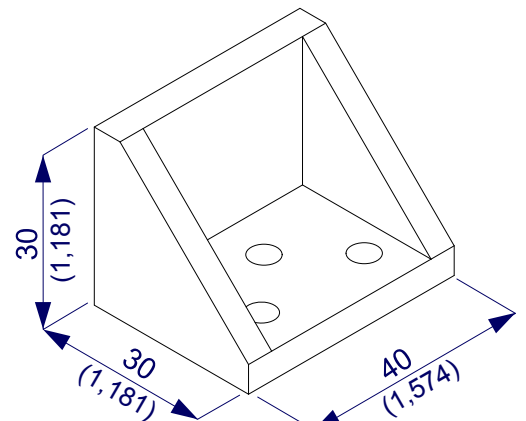
N 148 Nylon hinge with round hole
Box of 50 pcs.



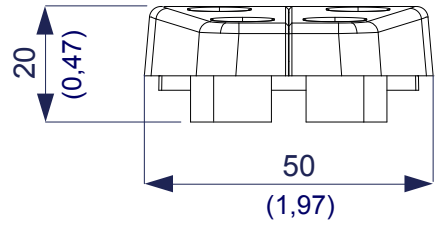
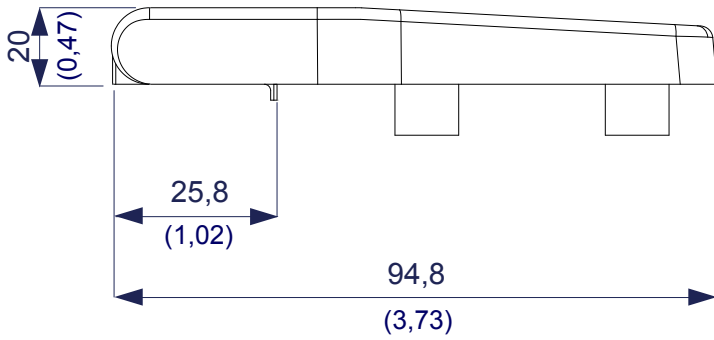
N 210 Fastening knob with insert 6 MA.
Box of 200 pcs.



N 40 x 40 Nylon hinge
Box of 300 pcs.



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



Z 35x50

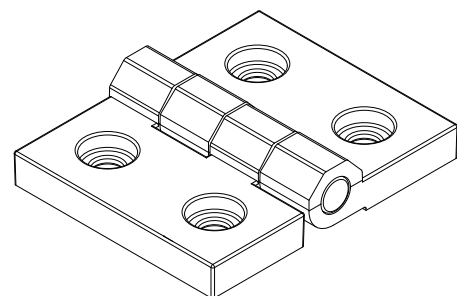
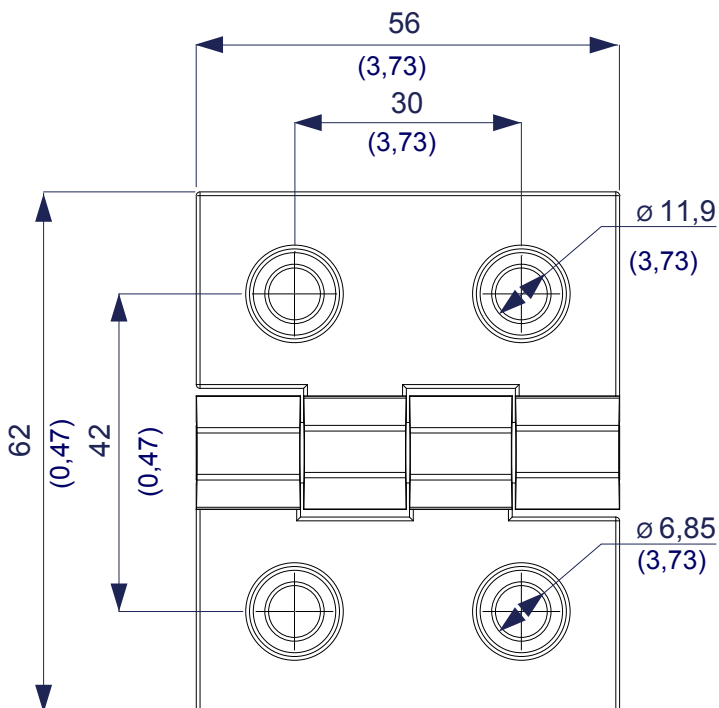
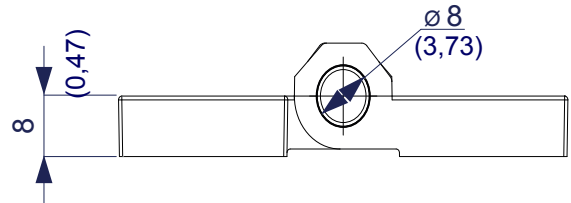
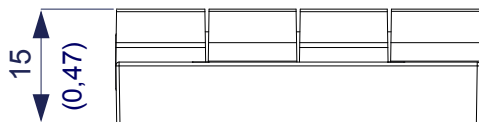
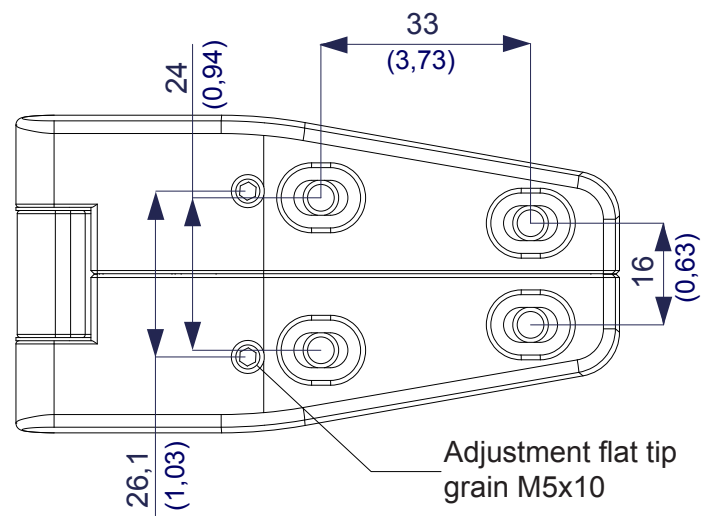
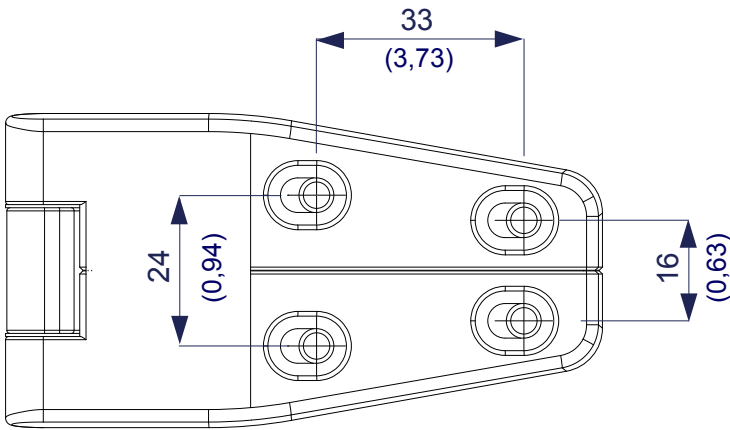
Zamak adjustable hinge 2 W

Box of 140 pcs.

Z 95x50 ADJ

Zamak adjustable hinge 3 W

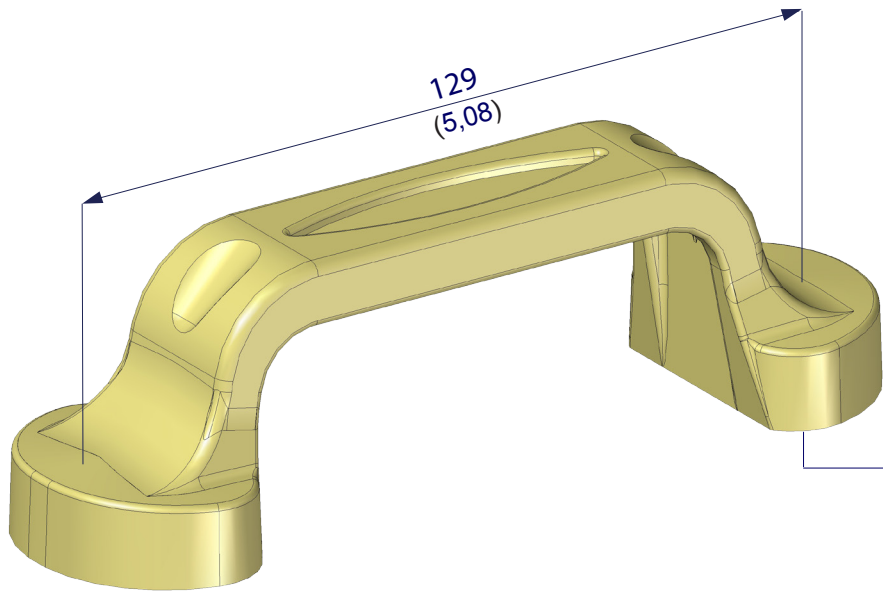
Box of 140 pcs.



Z 56x62

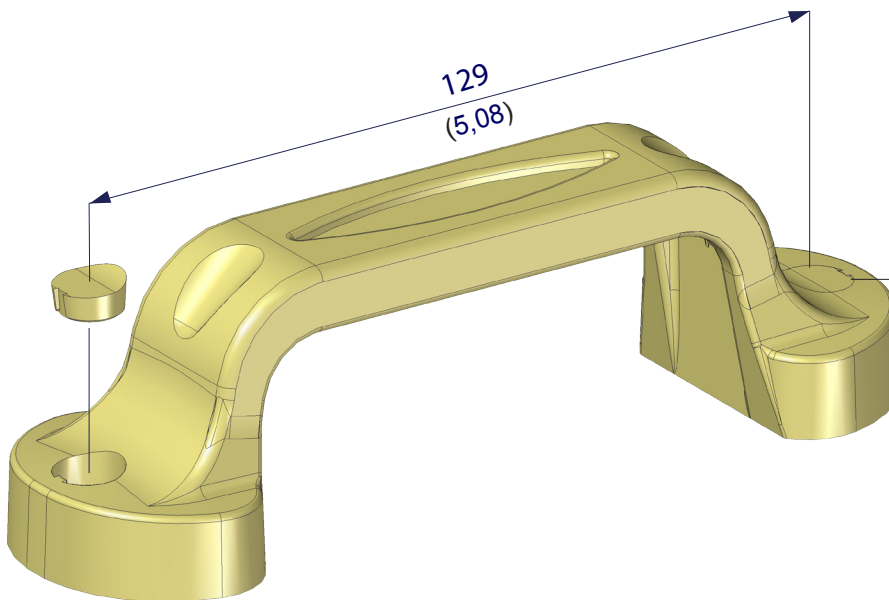
Aluminium hinge

Box of 100 pcs.



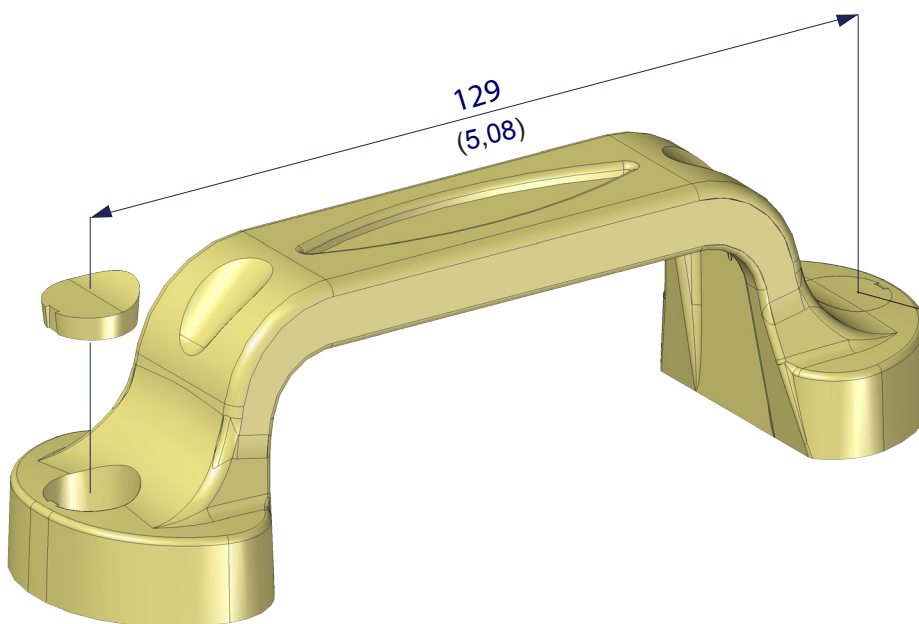
N 60-1
Box of 240 pcs.

Threaded hole
6 MA



N 65-1
Box of 240 pcs.

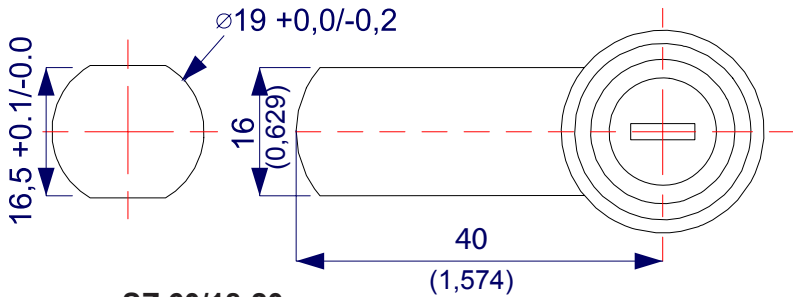
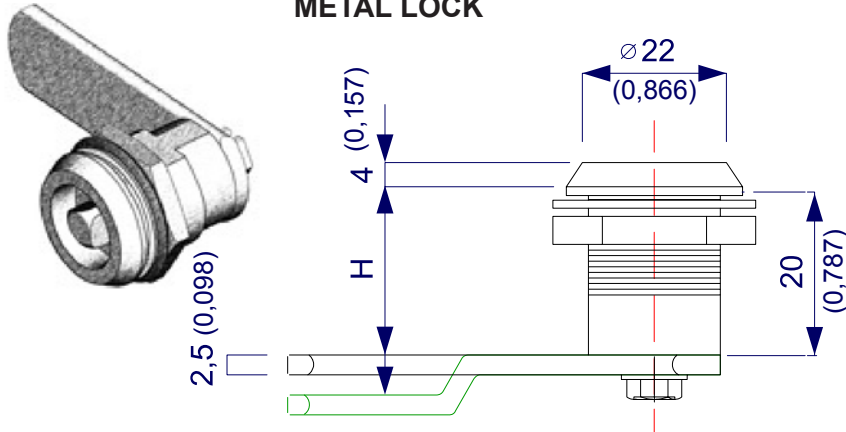
Hole ø 6 mm.



N 62-1
Box of 240 pcs.

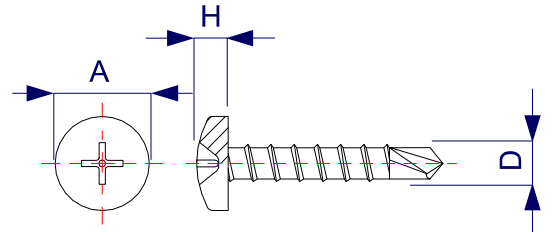
Hole ø 9 mm.

METAL LOCK



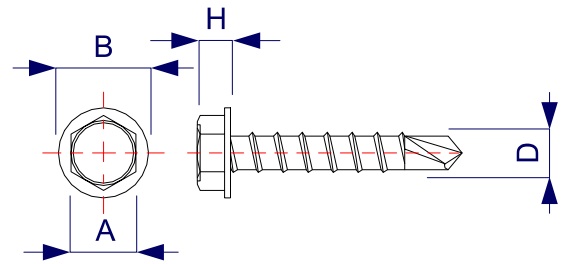
SZ 60/18-20
SZ 60/25
Box of 200 pcs.

SELF-DRILLING SCREWS



TC PH

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

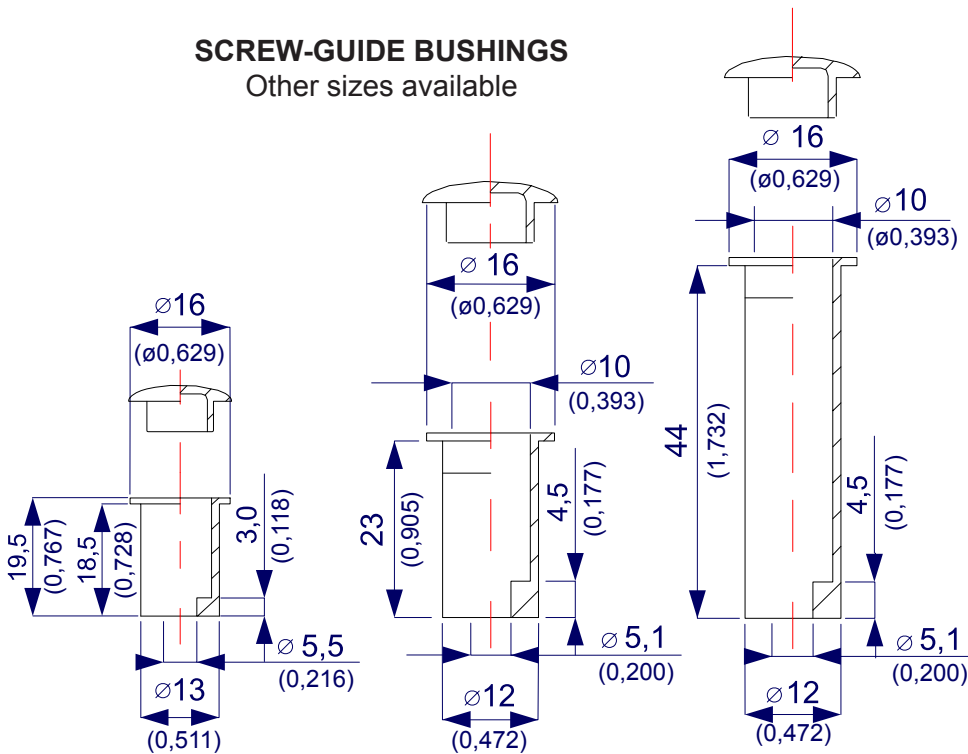


TE FR

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

SCREW-GUIDE BUSHINGS

Other sizes available



N 870-20

For panel
thickness 20 mm
Box of 2.000 pcs.

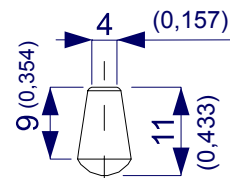
N 870

For panel
thickness 25 mm
Box of 2.000 pcs.

N 871

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

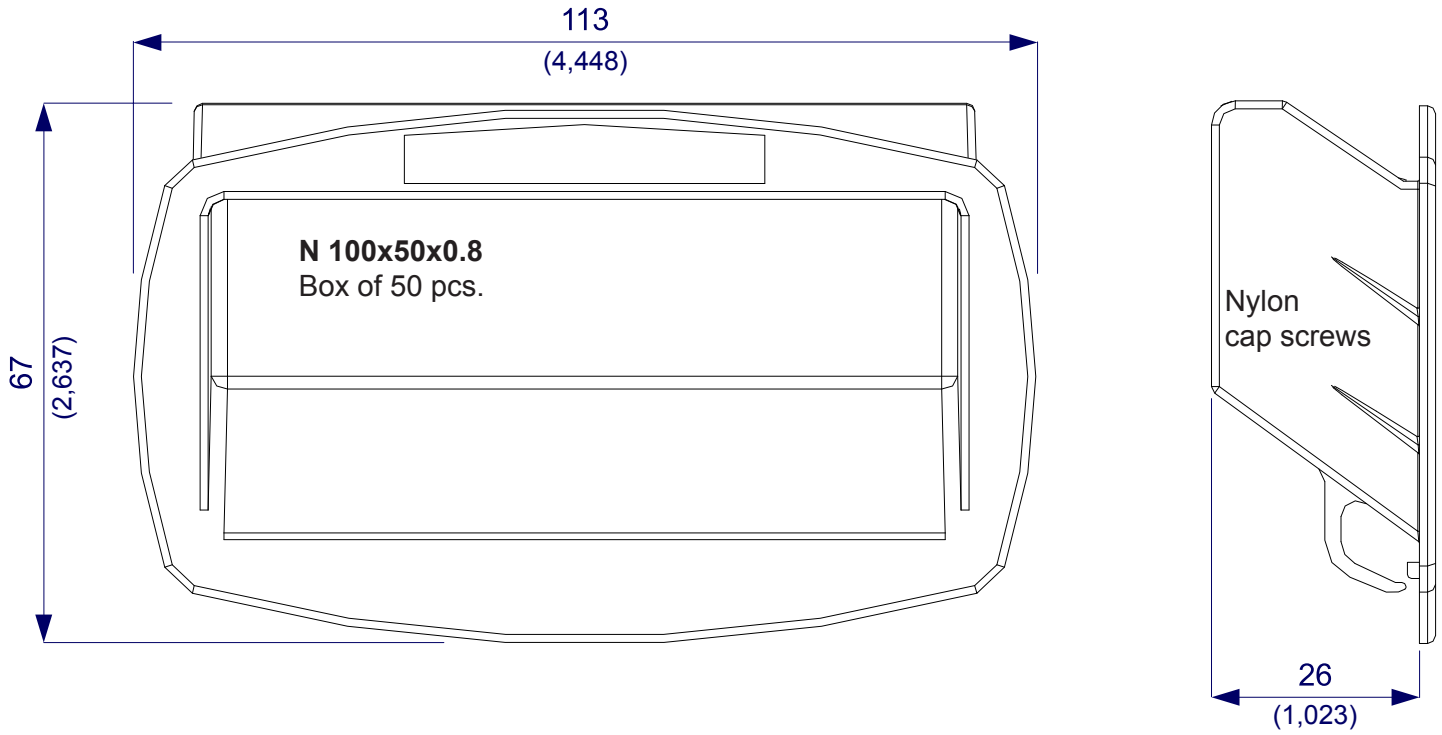
SCREW CAP COVERS



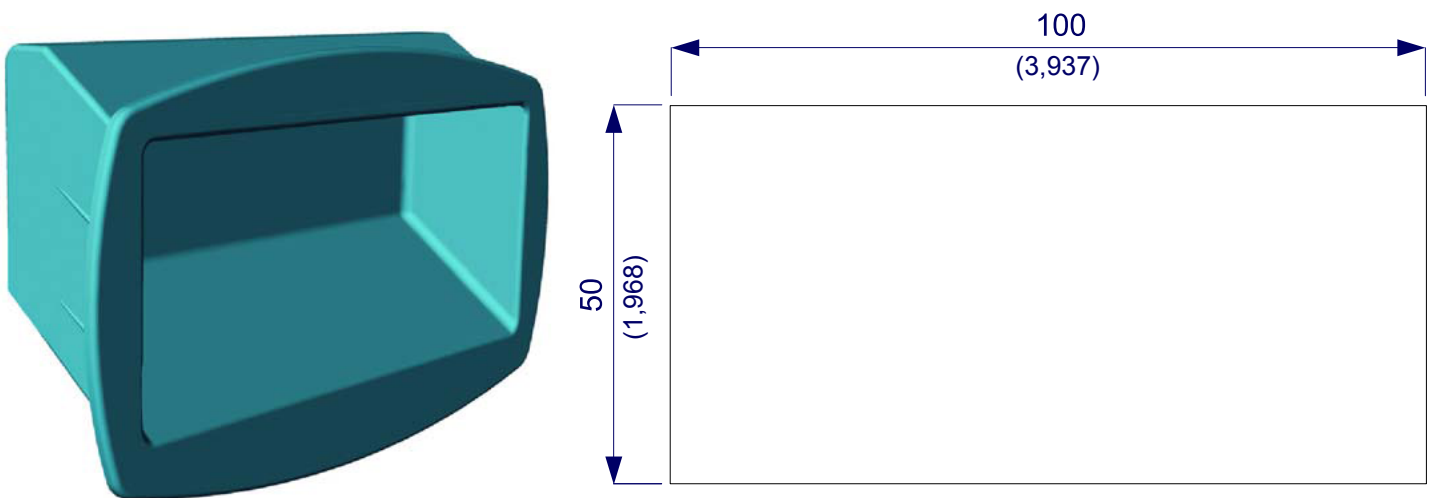
N 880

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

HANDLE IN LINE WITH THE PANEL



Sheet metal working



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

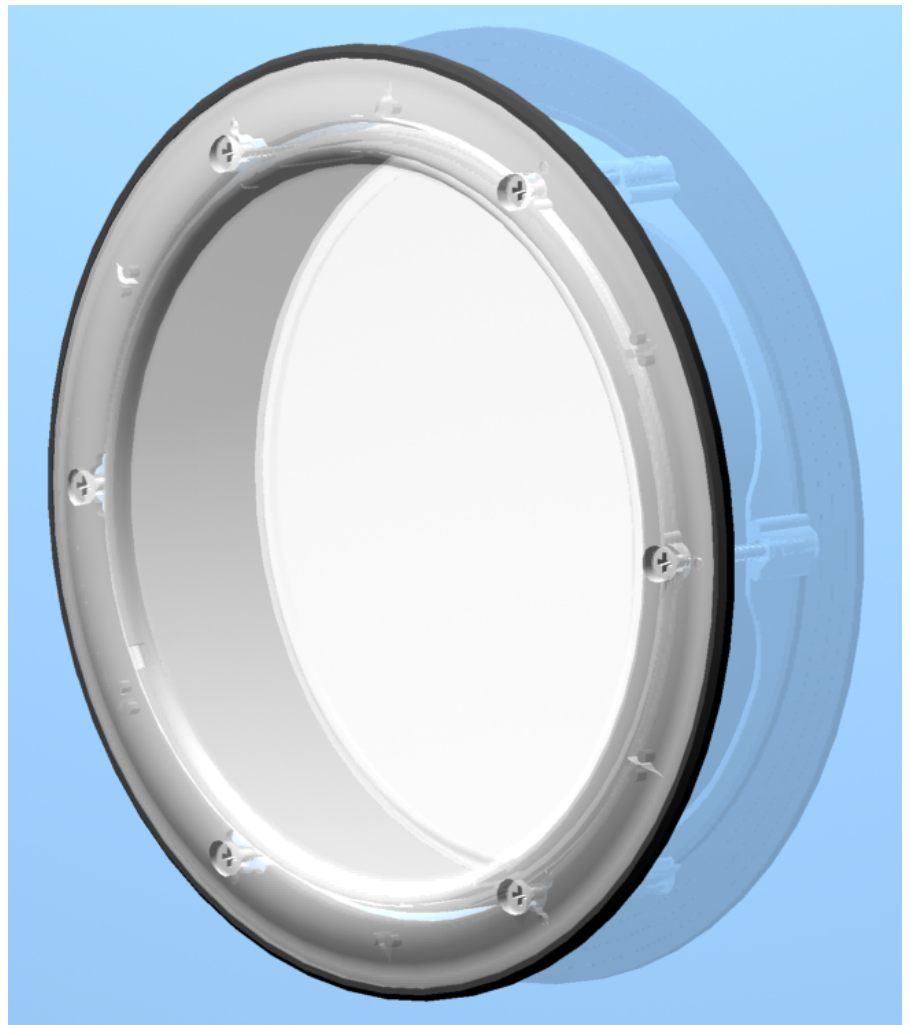
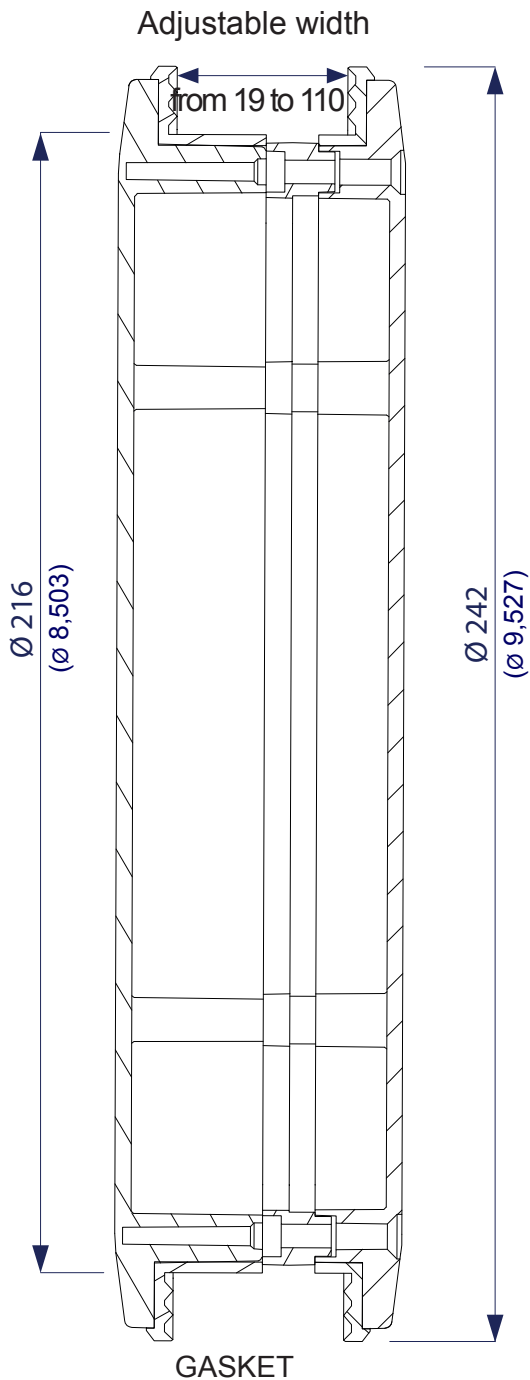
W 19-35
Box of 10 pcs.

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

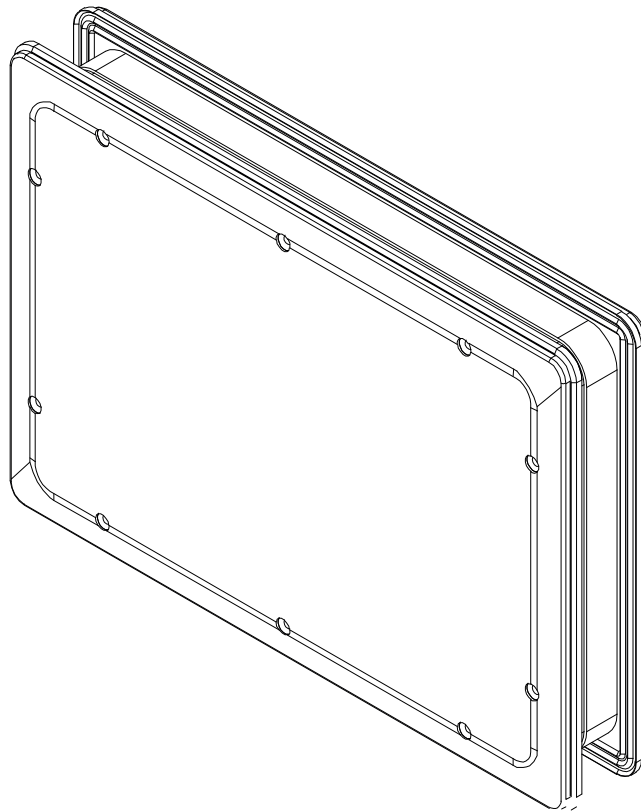
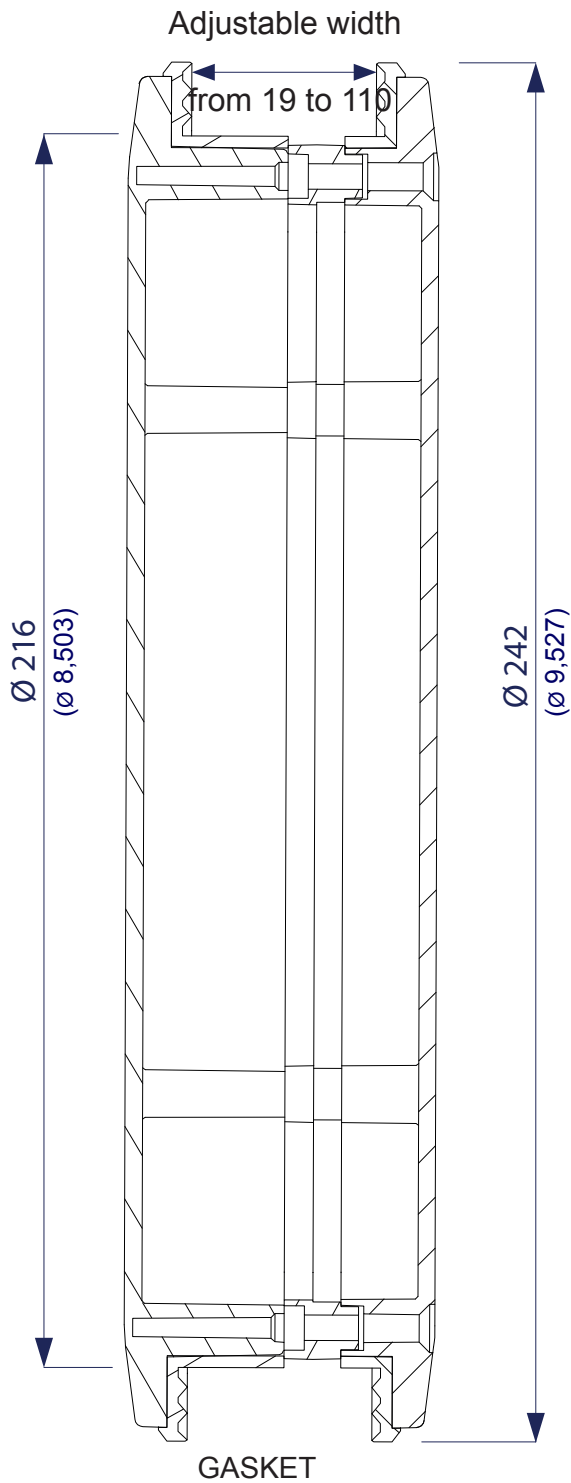
Box of 11 pcs.

WR 45

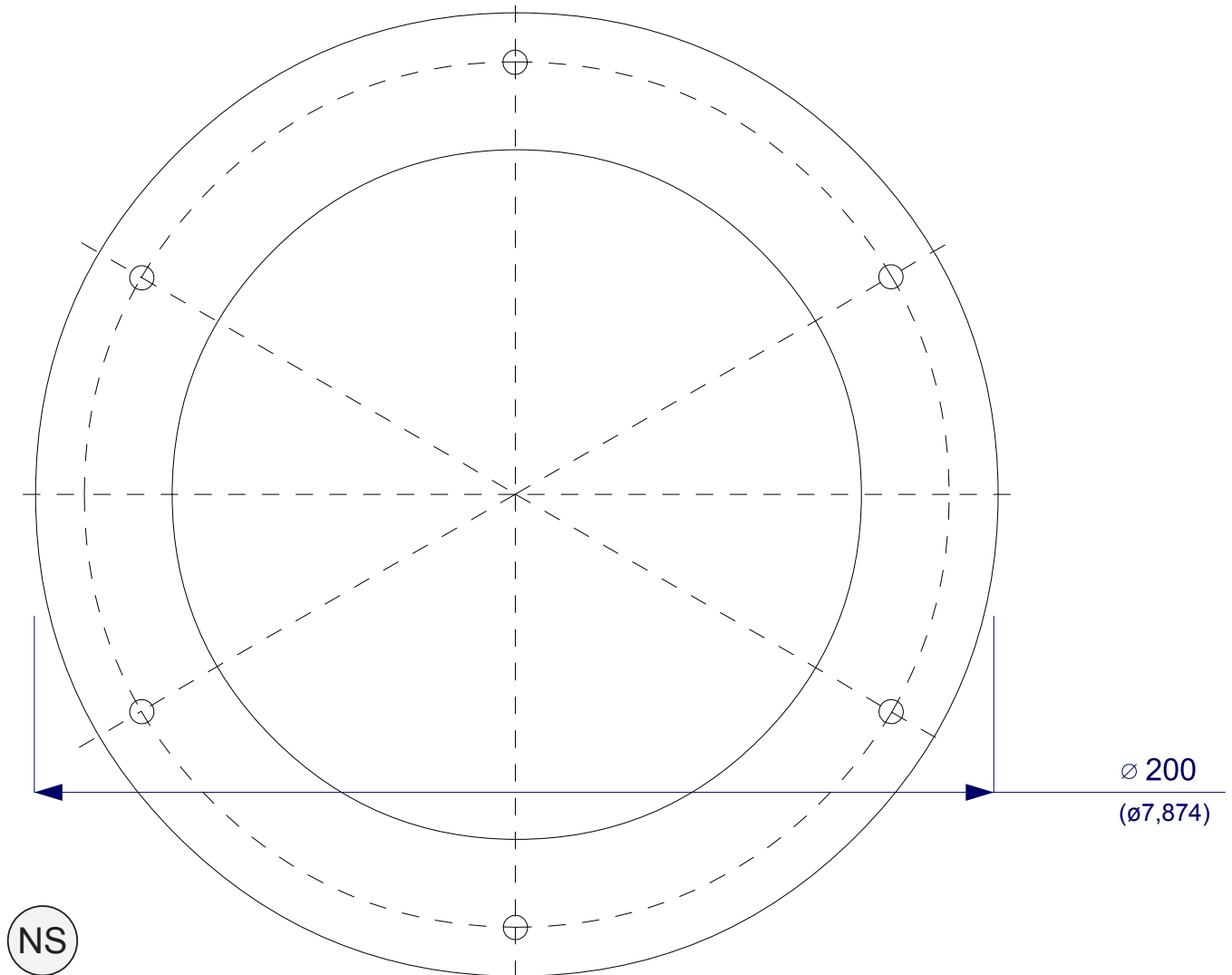
Box of 15 pcs.

WR 50

Box of 15 pcs.

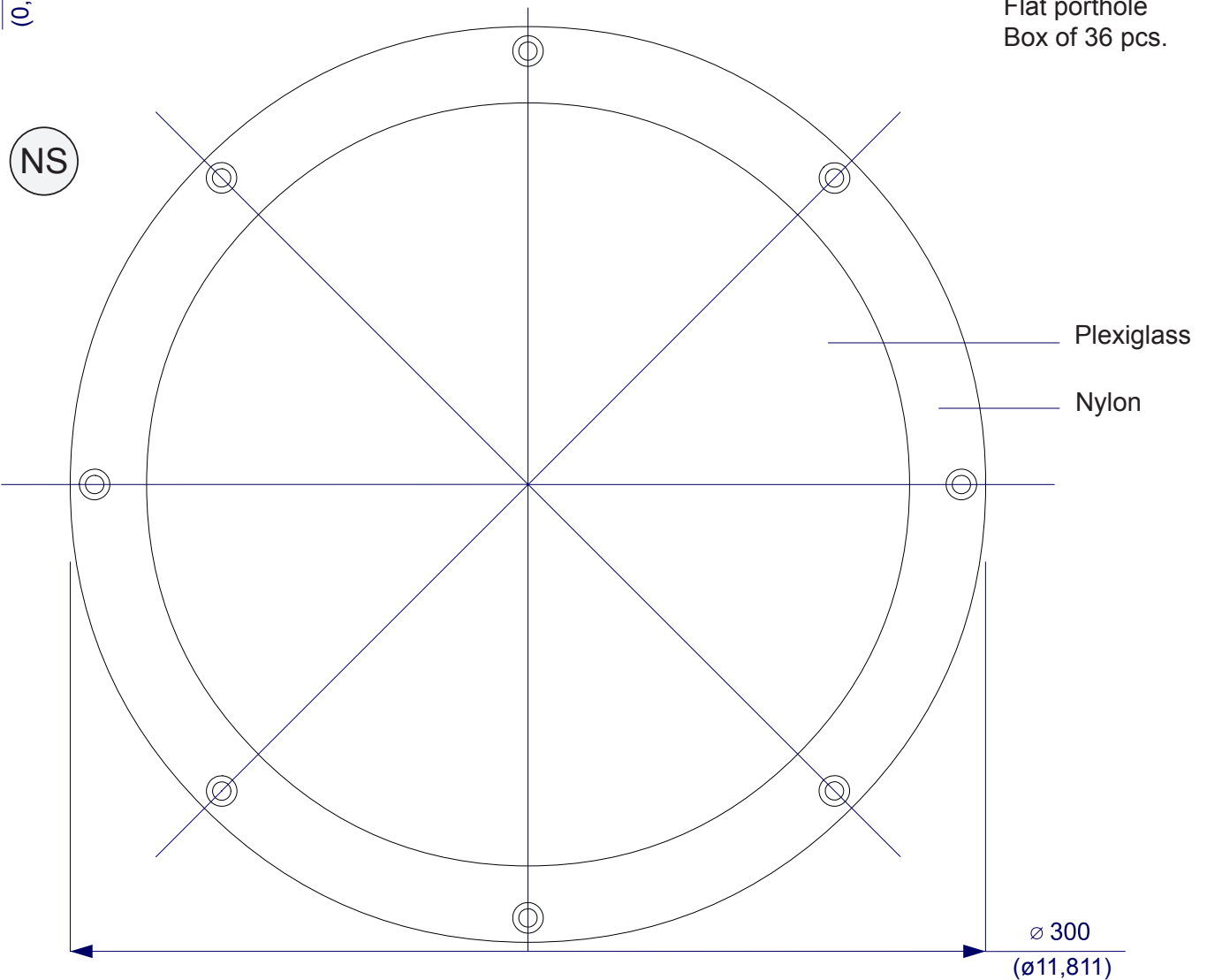
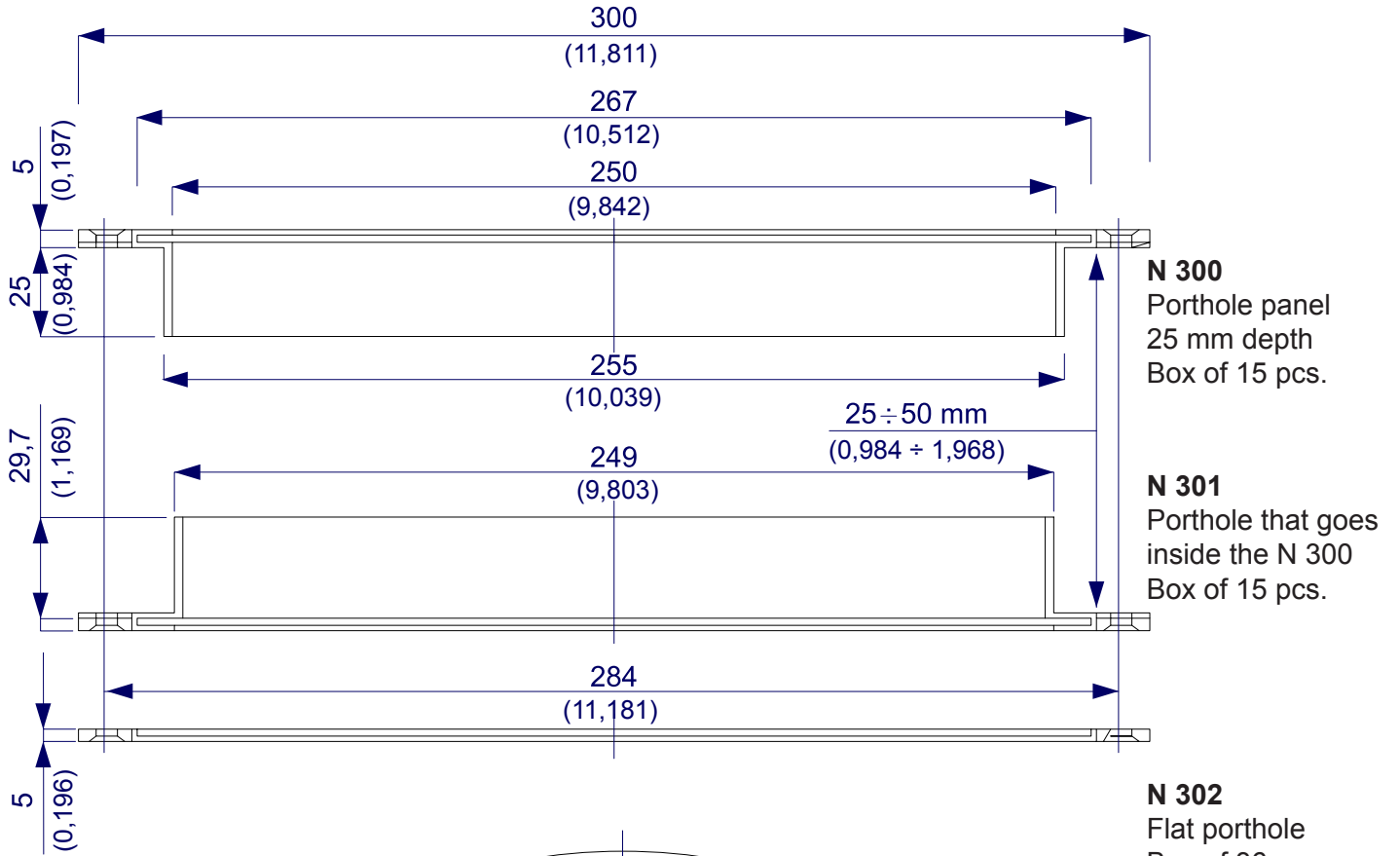


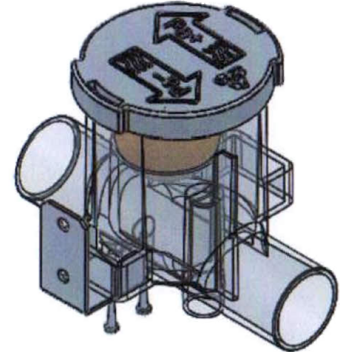
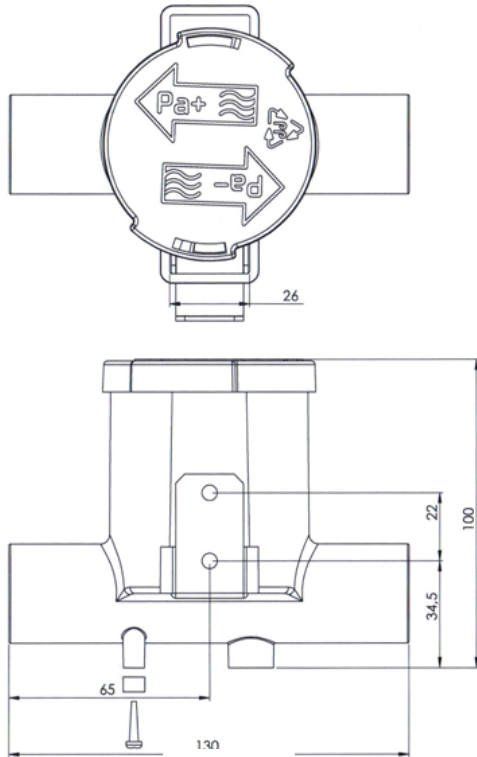
Plexiglass porthole with gasket



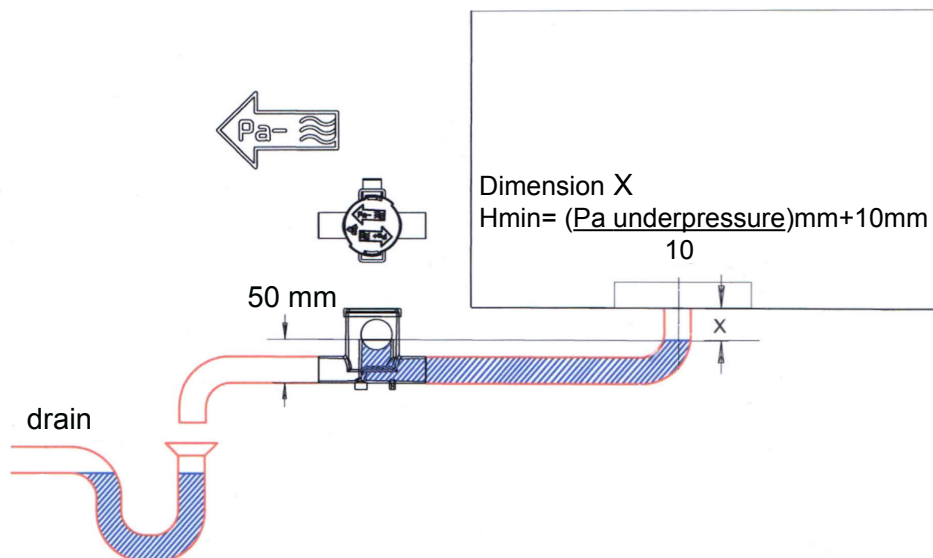
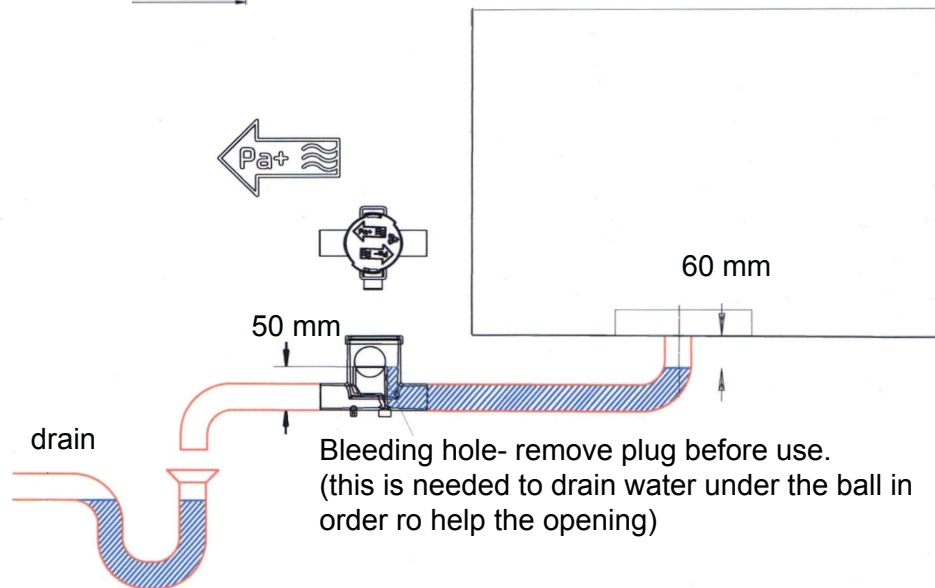
N 181
Box of 50 pcs.

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



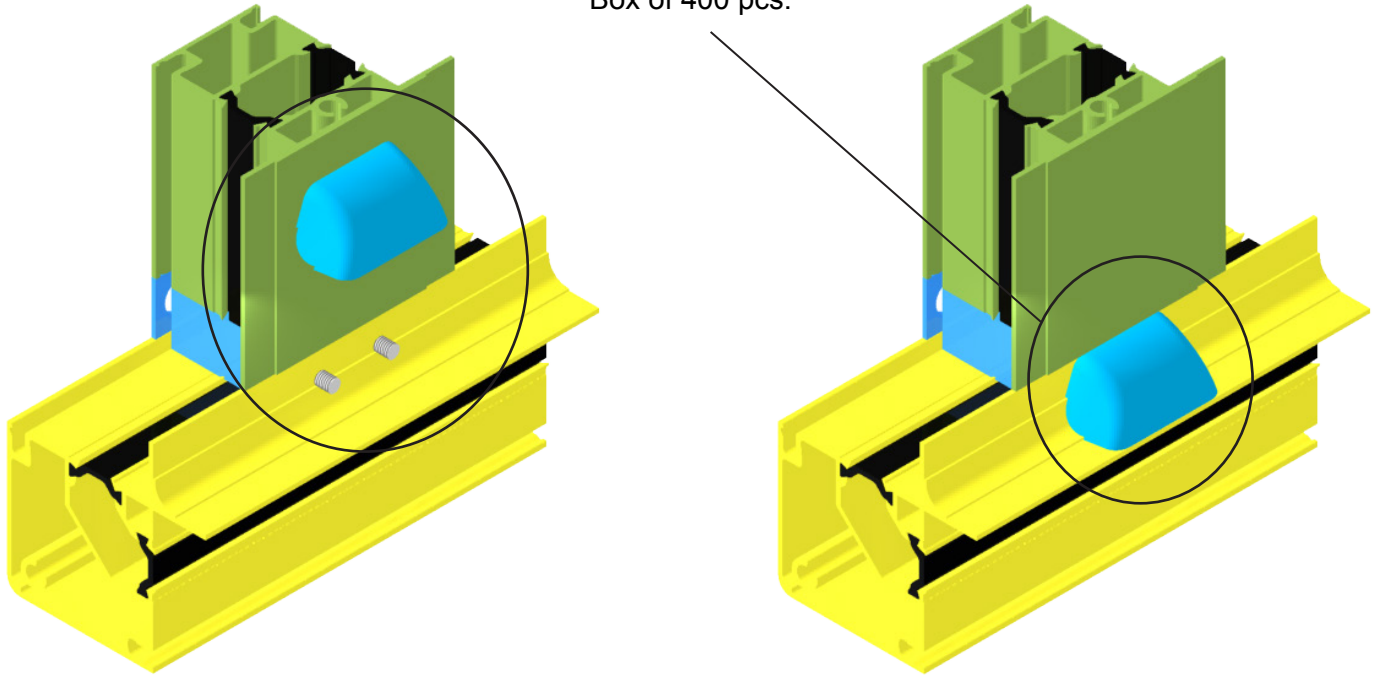


PP001
Box of 30 pcs.



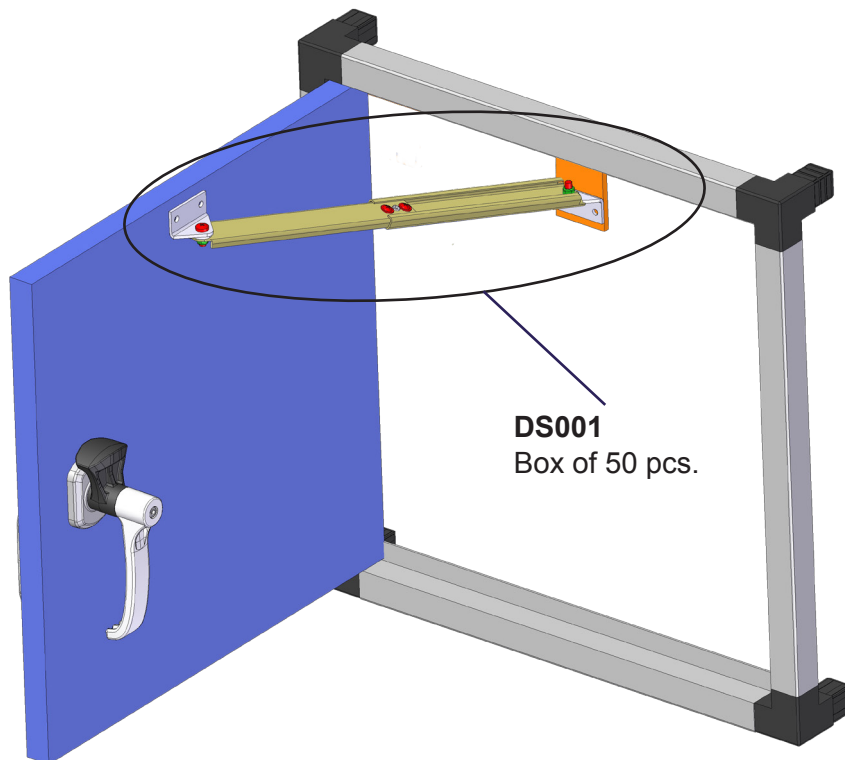
NYLON HIDING SCREW COVER

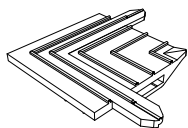
NC001
Box of 400 pcs.



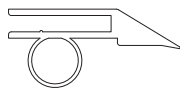
TELESCOPIC DOOR BLOCK

DS001
Box of 50 pcs.

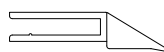




GS-20
Gasket EPDM
Box of 1.000 pcs.



G002
Gasket PVC
Bundle of 100 mt.



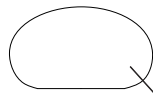
G003 F 1
Gasket PVC
Bundle of 100 mt.



G0015
Gasket PVC
Box of 500 mt.



Adhesive area



Adhesive area



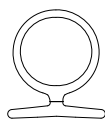
G0017
Gasket Polyurethane
Box of 500 mt.



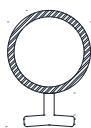
G0019
Gasket Soft PVC
Box of 500 mt.

G0020
Gasket Polyurethane
Box of 500 mt.

G0021
Gasket Polyurethane
Box of 500 mt.



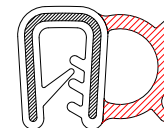
G001
Gasket EPDM
Box of 500 mt.



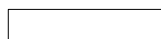
G0012
Gasket EPDM
Box of 500 mt.



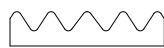
G 59
Gasket PVC
Box of 225 mt.



GE0023
Gasket EPDM
Box of 500 mt.



GE0022_15x3
Gasket EPDM
Box of 600 mt.



GE0024
Gasket EPDM
Box of 600 mt.



GE0024/1
Gasket EPDM
Box of 600 mt.



G004
Gasket PVC
Box of 500 mt.



G65
Gasket PVC
Box of 400 mt.



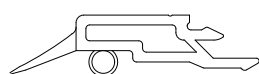
G0011
Gasket EPDM
Box of 700 mt.



G0013
Gasket TPE
Box of 1000 mt.



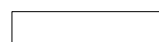
GE0025
Gasket EPDM
Box of 500 mt.



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)



PVC GB1
Gasket PVC
Bundle of 120 mt.

Serrande in alluminio di regolazione ed espulsione aria.

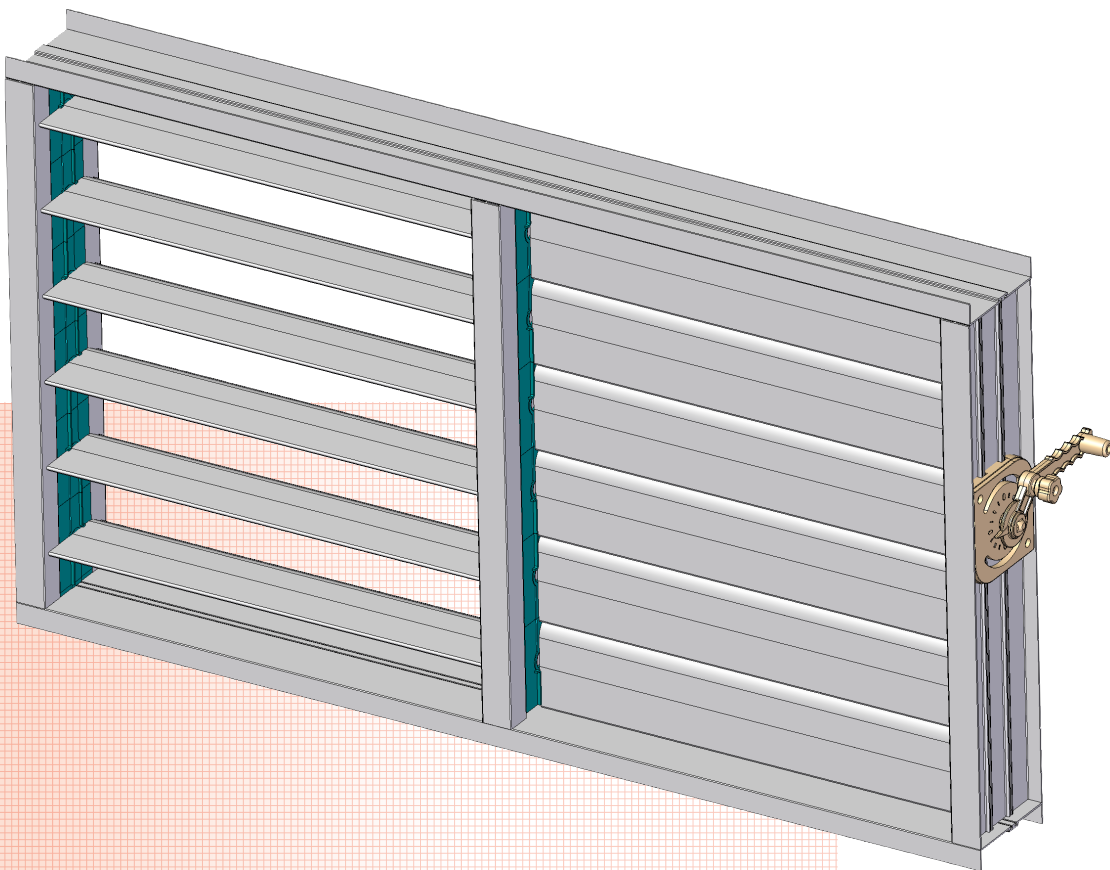
Aluminium overpressure and airflow regulation dampers.

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

This section deals with positive air pressure dampers and single/double dampers.

The overpressure damper has a solid aluminium frame that is assembled by connecting the profiles to die-cast aluminium corners, meanwhile the nylon spacers determine the blade position. This system is quick to assemble and avoid any kind of drilling thanks to nylon spacers that determine the position of the blades. The blades shape work as a barrier itself that always let the inner side completely separated from the outer one and the water is always kept outside the unit.

The 100 mm and 50 mm pitch damper is entirely made of aluminium profiles with nylon accessories reinforced in fiberglass.

The predominant characteristic is the assembly method which is extremely simple and fast. The blades of this damper are controlled by nylon gears that are spaced out by a nylon spacer. This means that the damper's frame does not need drilling to make holes for the blades' pins because distance and position are automatically determined by nylon spacers.

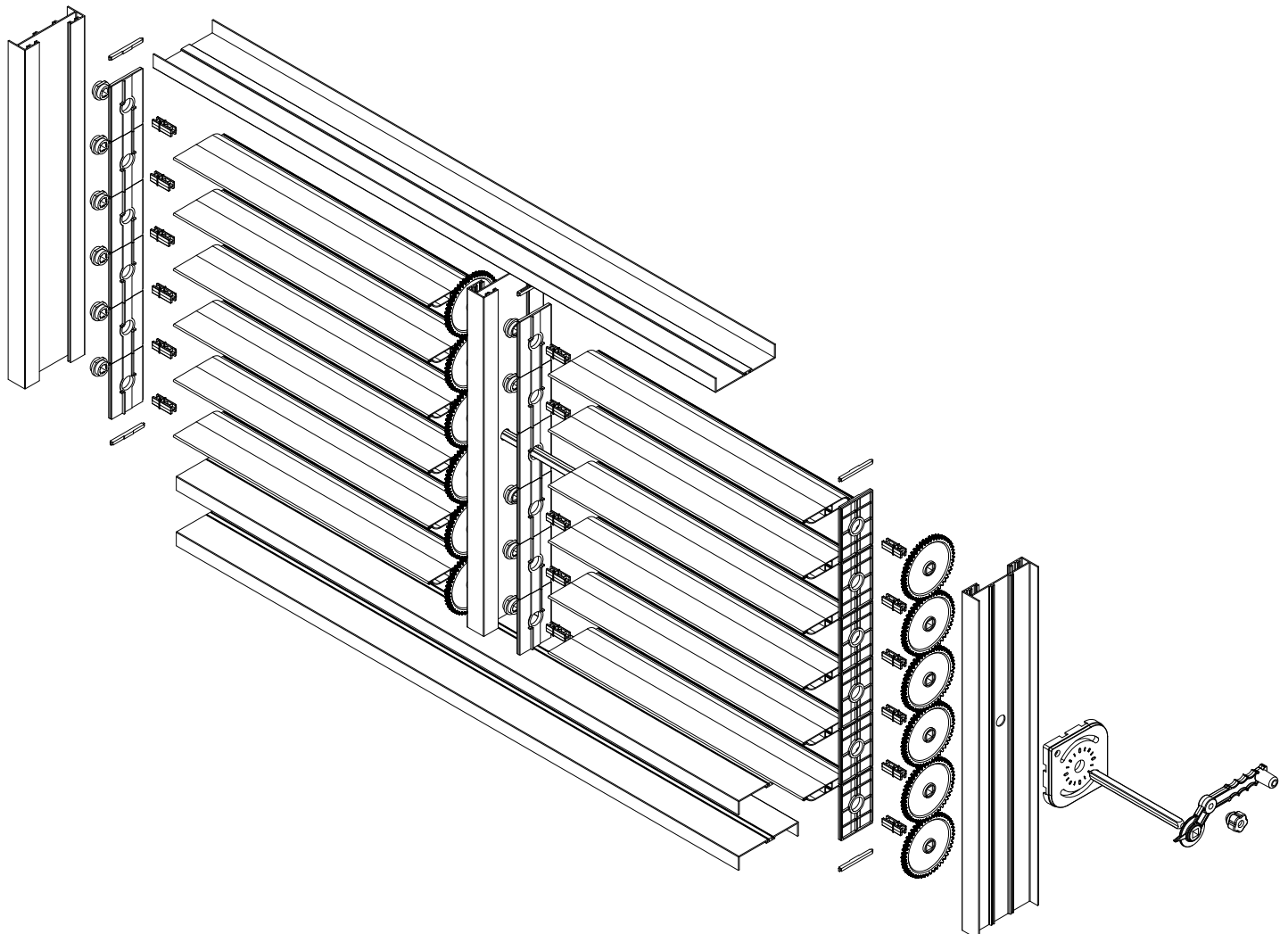
This damper is light, as it is made of aluminium, and yet extremely strong because of its carefully-engineered design.

Double dampers can be equipped with intermediate support profiles in order to give more strength to the whole structure. The dampers can also be assembled with a closed side and an open side when two different airflows are required.

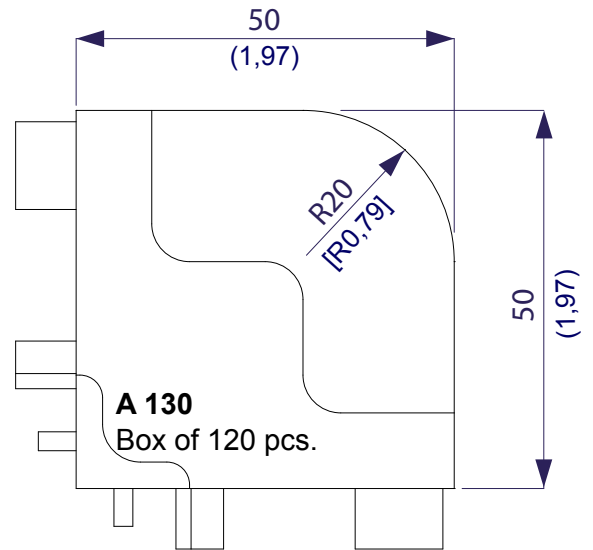
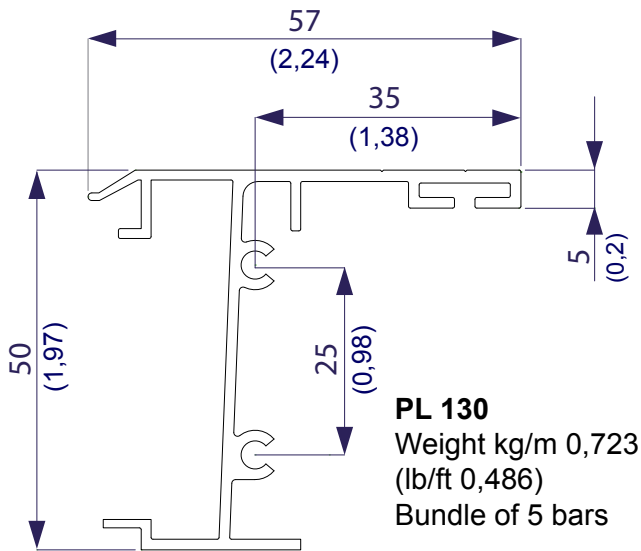
These dampers can be controlled by hand with an aluminium/galvanized steel/nylon handle or by electrical motor with aluminium pin.

The damper's tightness is enhanced by gaskets inserted in the blades and gaskets inserted in the frame.

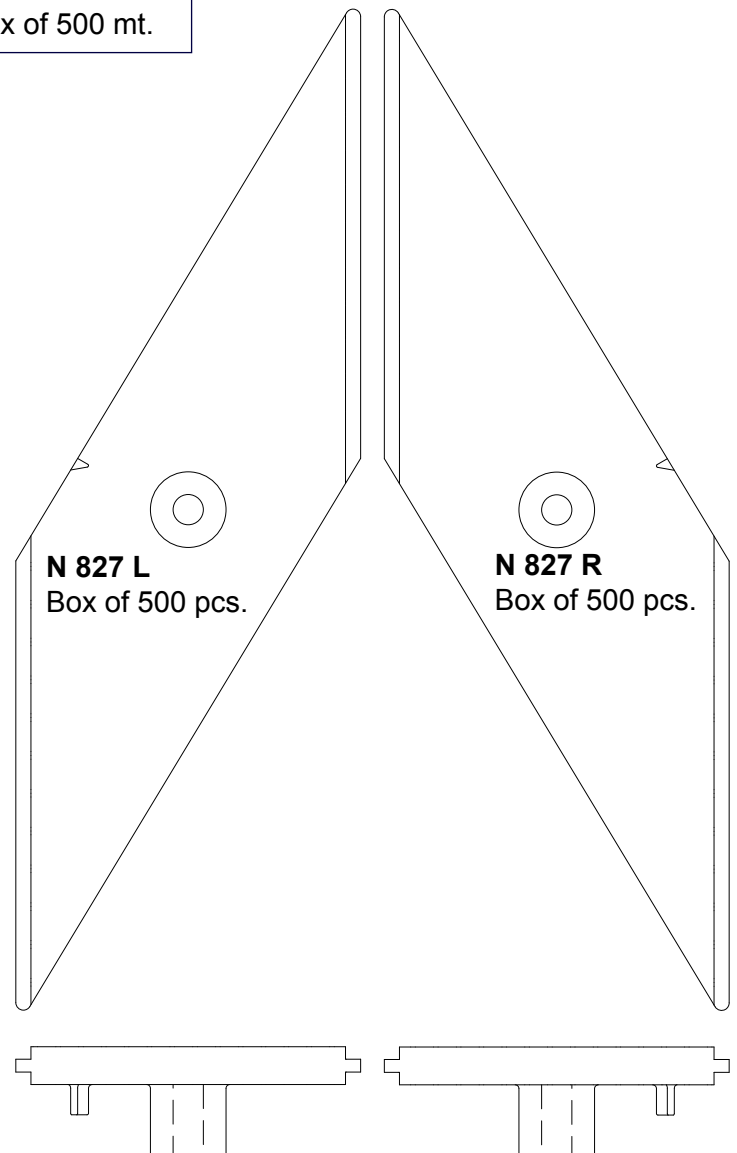
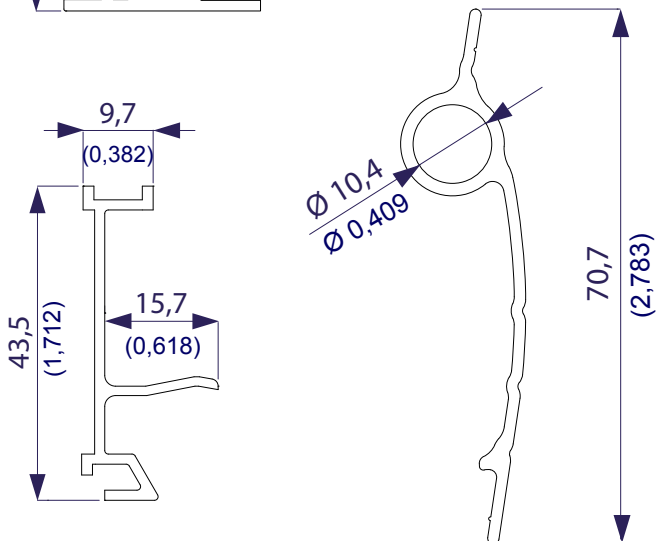
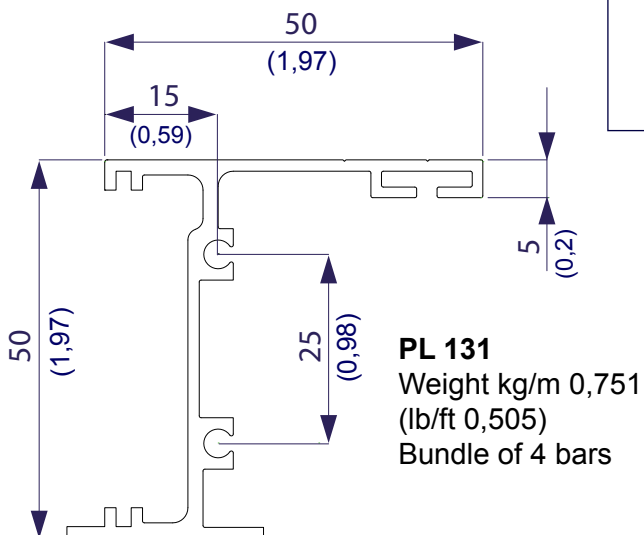
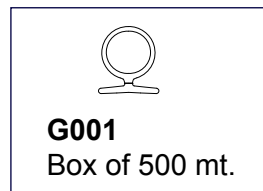
This section contains assembly instruction for the damper together with a table for calculating optimum weight to size ratio for dampers of standard dimensions.



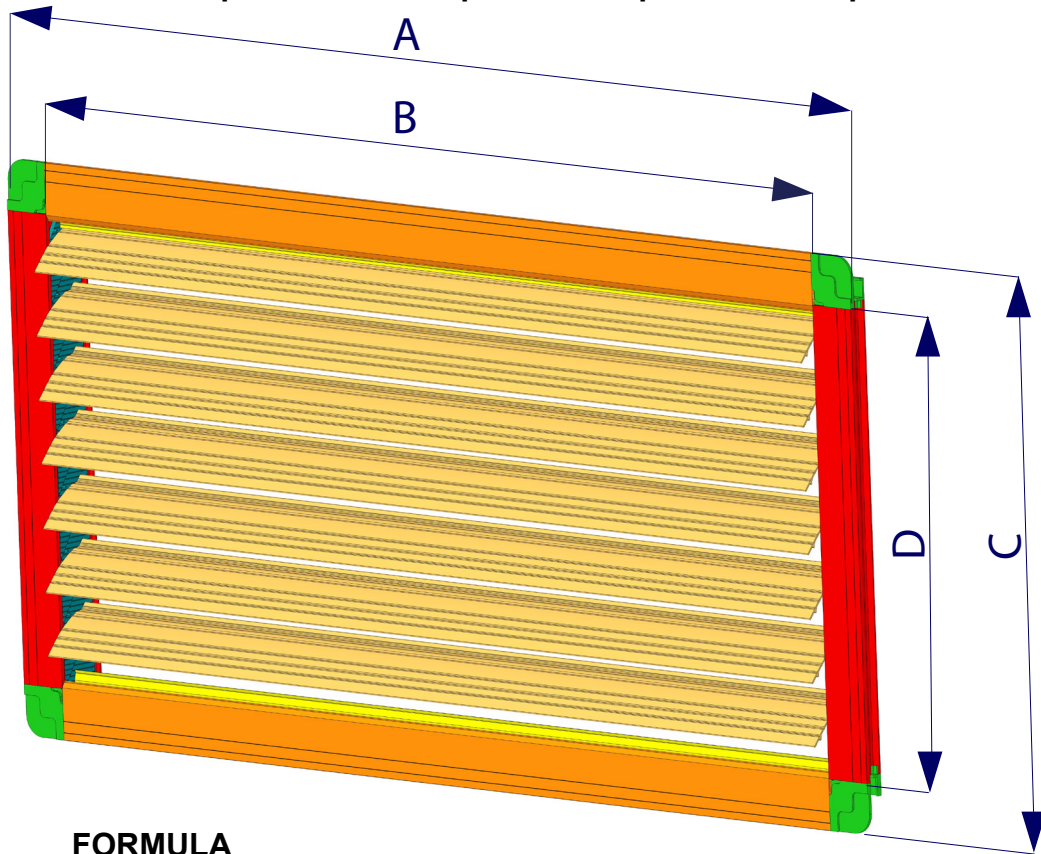
Profiles and accessories for positive air pressure damper



GASKET



3D representation of positive air pressure damper



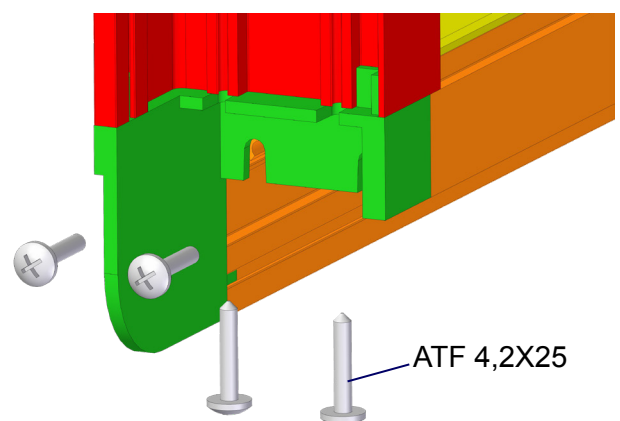
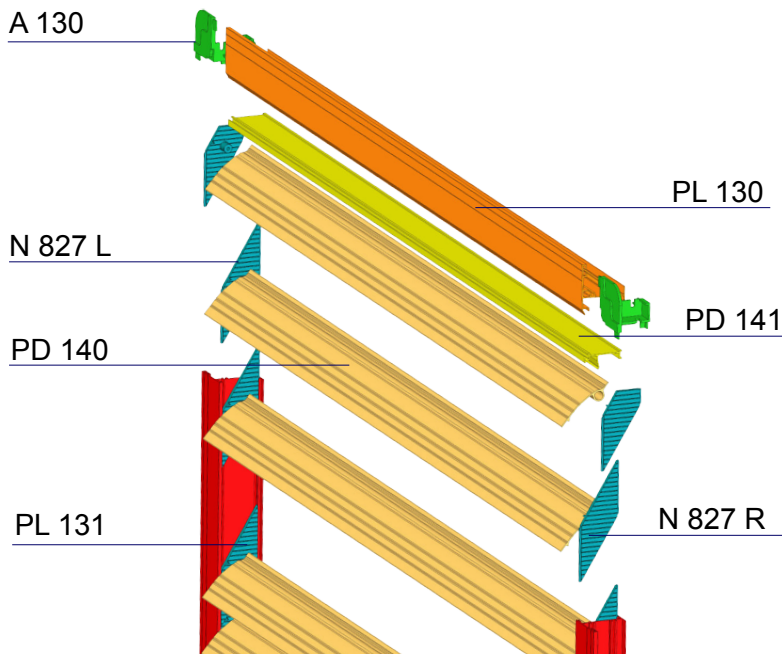
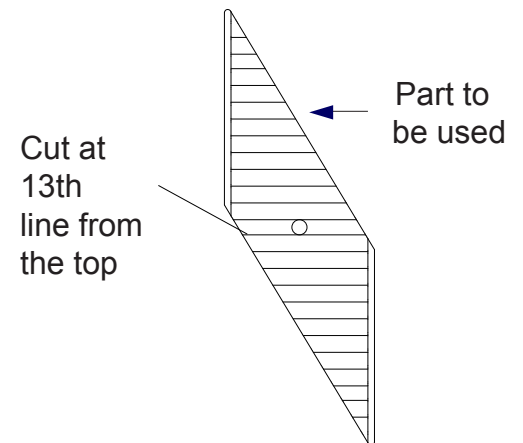
FORMULA

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

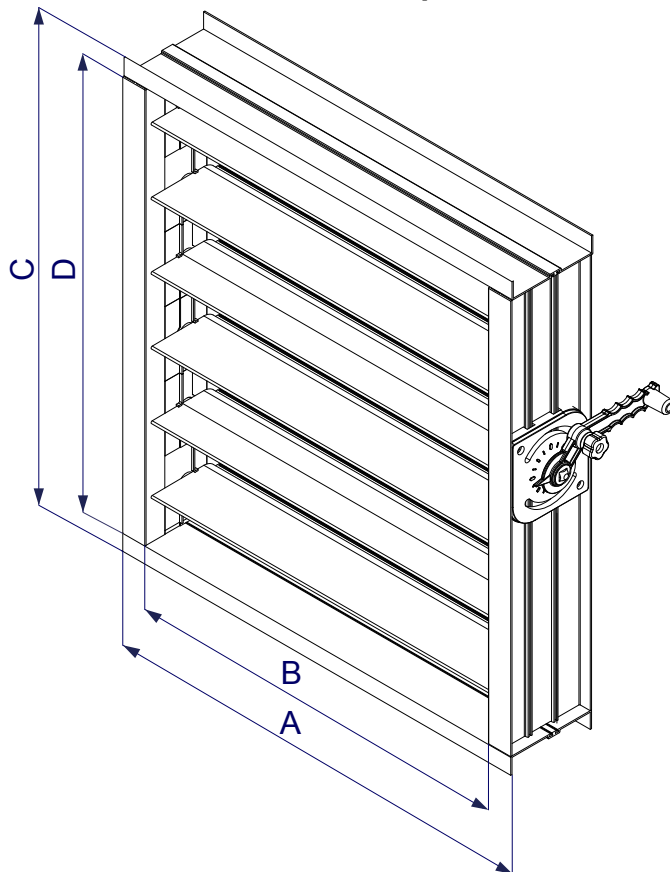
DIRECT FORMULA

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



FORMULA SINGLE DAMPER

STANDARD

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

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

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

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

$D = \text{See table below}$

LIGHT

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

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

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

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

$D = \text{See table below}$

REINFORCED

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

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

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

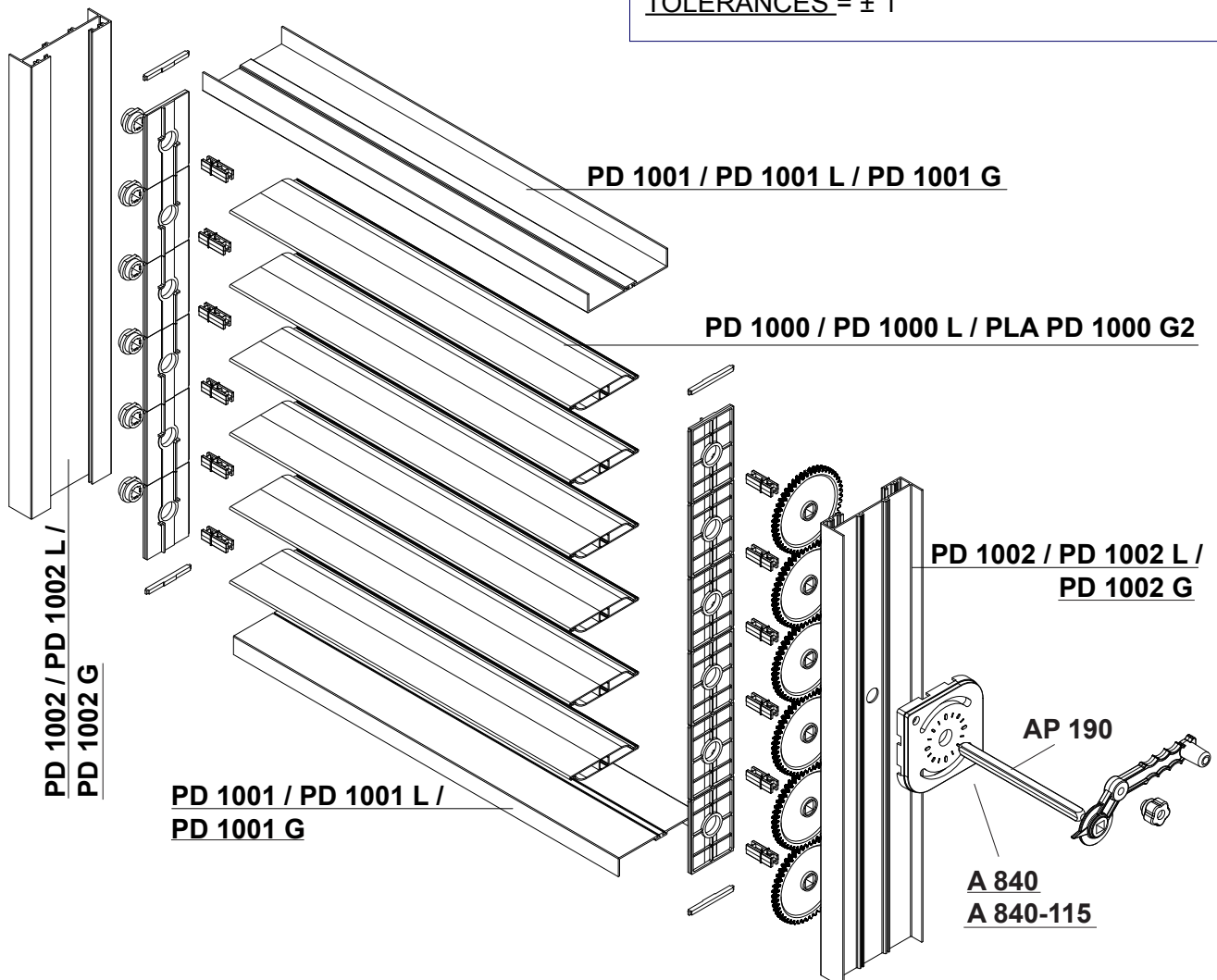
$C = D + 30 \text{ mm}$

$D = \text{See table below}$

DIMENSION FOR PROFILE "D"

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

TOLERANCES = ± 1



3D representation of double damper

DOUBLE DAMPER FORMULAS

STANDARD

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

$B1 = B2 = (B - 35) / 2$

BLADE length = $B1 - 3 \text{ mm} = B2 - 3 \text{ mm}$

BLADE length NG007 A_B = $B1 - 10.5 \text{ mm}$
= $B2 - 10.5 \text{ mm}$

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

D = See table on page. 04

LIGHT

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

BLADE length = $B - 3 \text{ mm}$

BLADE length NG007 A_B = $B1 - 10.5 \text{ mm}$
= $B2 - 10.5 \text{ mm}$

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

D = See table on page. 04

REINFORCED

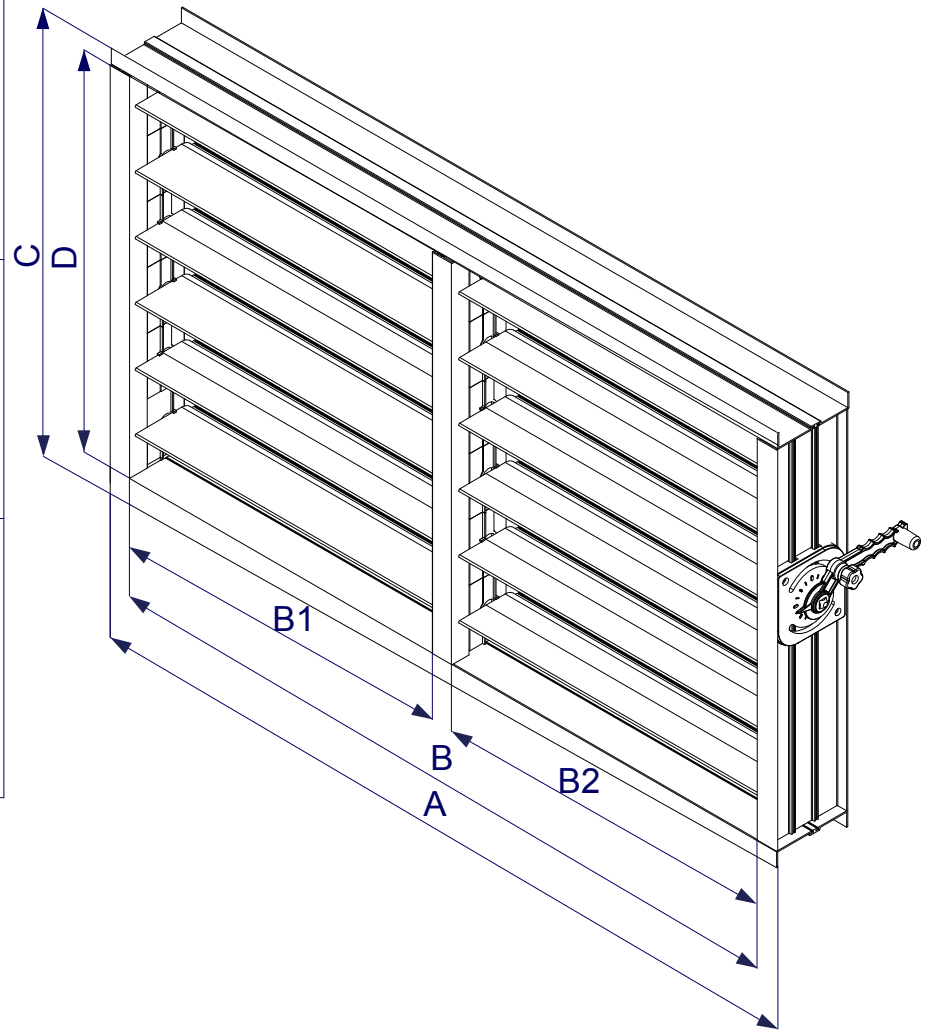
$A = B + 60 \text{ mm}$

BLADE length = $B1 - 3 \text{ mm} = B2 - 3 \text{ mm}$

BLADE length NG007 A_B = $B1 - 10.5 \text{ mm}$
= $B2 - 10.5 \text{ mm}$

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

D = See table on page. 04



PD 1001 / PD 1001 L / PD 1001 G

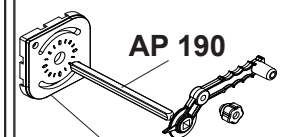
PD 1003 / PD 1003 L

PD 1000 / PD 1000 L / PLA PD 1000 G2

PD 1002 / PD 1002 L / PD 1002 G

PD 1002 / PD 1002 L / PD 1002 G

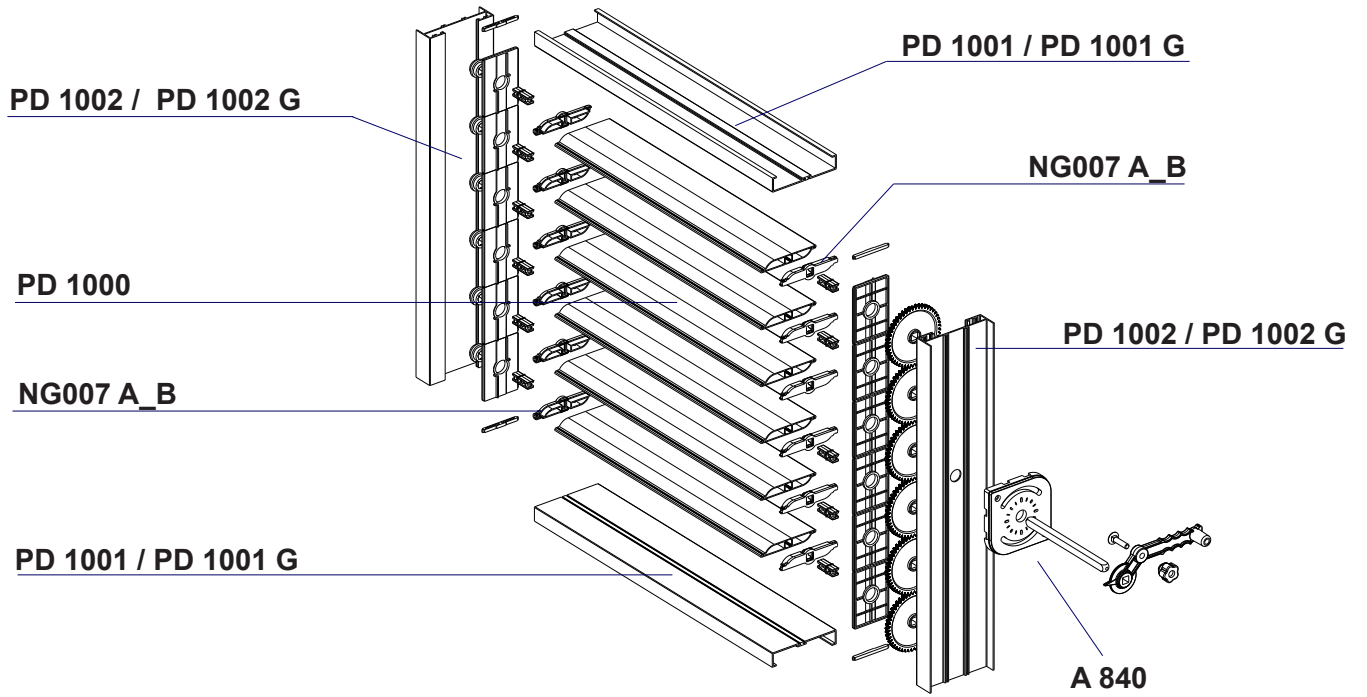
PD 1001 / PD 1001 L / PD 1001 G



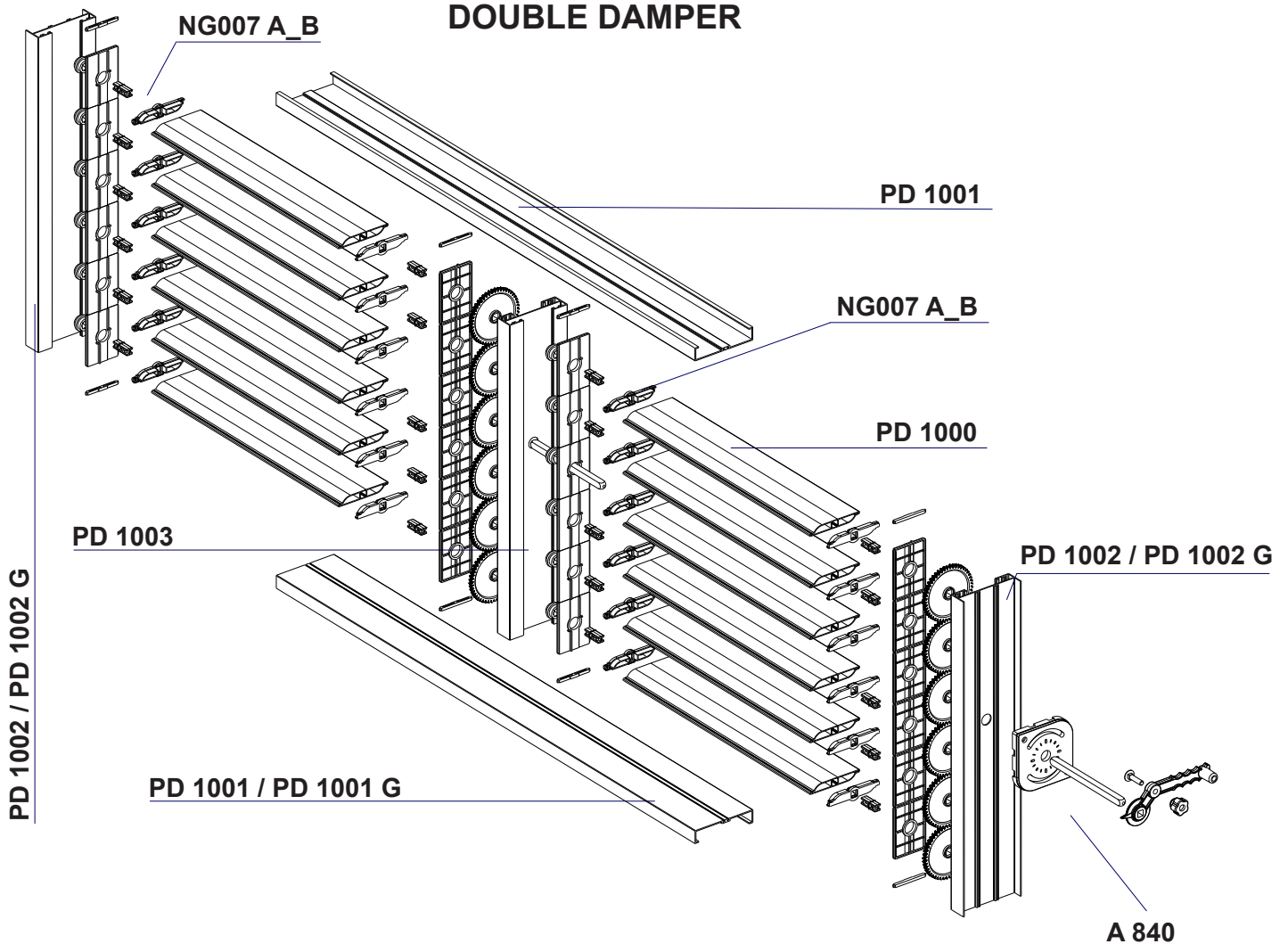
A 840
A 840-115

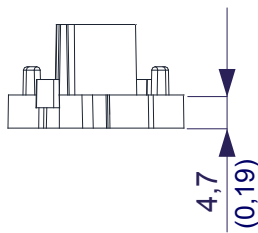
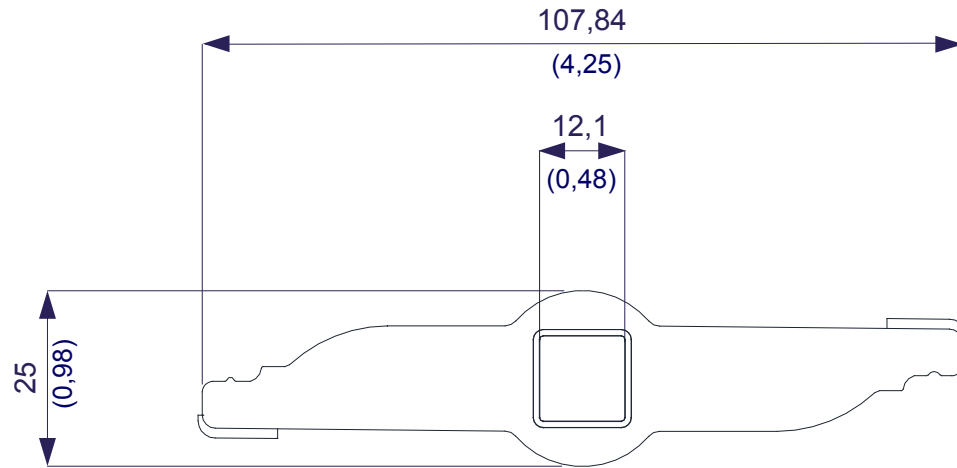
COMPLIANT TO **UNI EN 1751:2014**

SINGLE DAMPER

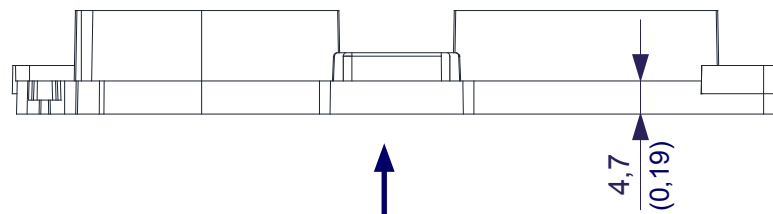


DOUBLE DAMPER



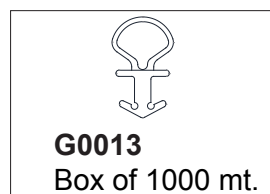


BLADE PLUGS
NG007 A_B
Box of 400 pcs.



FLOCKED FINISHING

GASKET

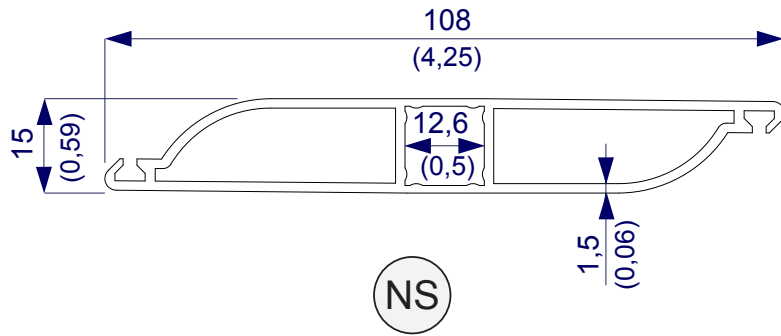


G0013
Box of 1000 mt.

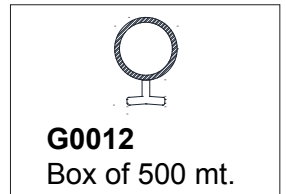
STANDARD

PD 1000

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

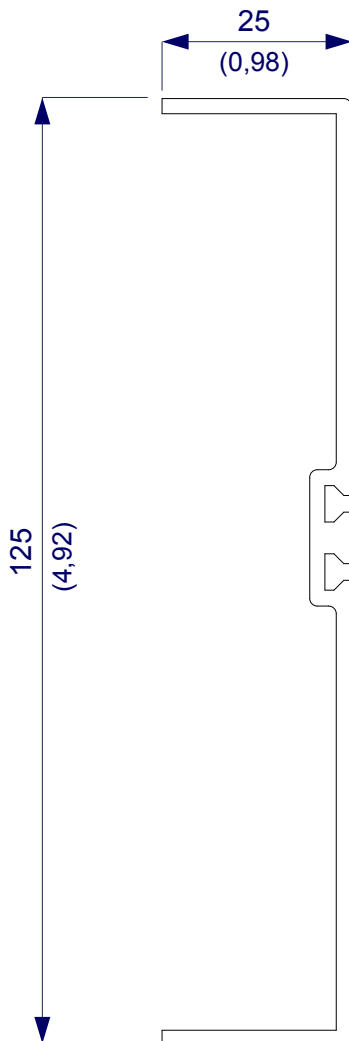
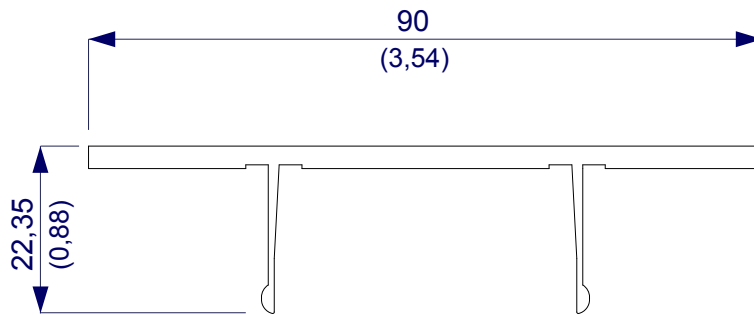


GASKET



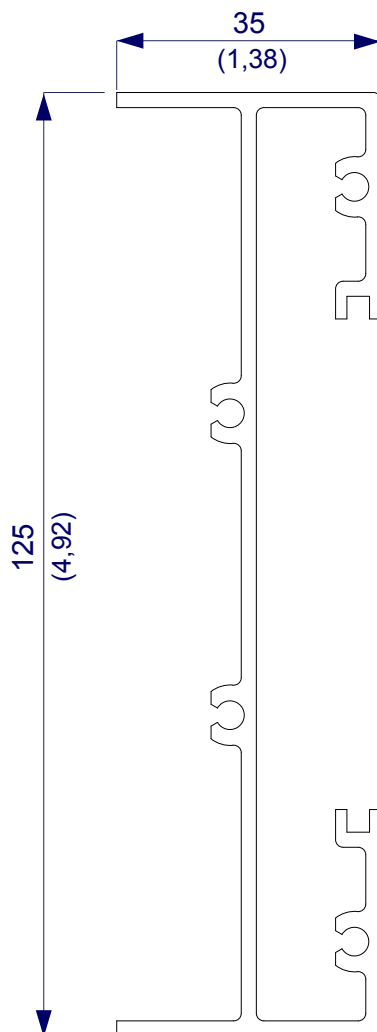
PD 1008

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



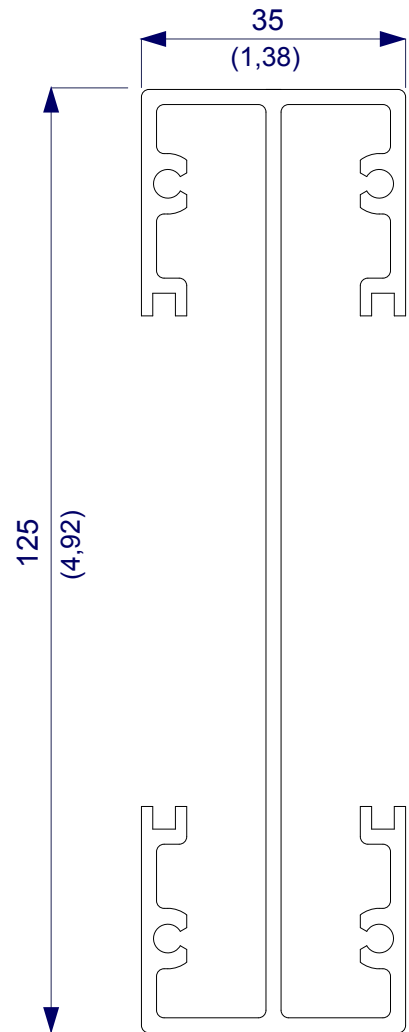
PD 1001

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



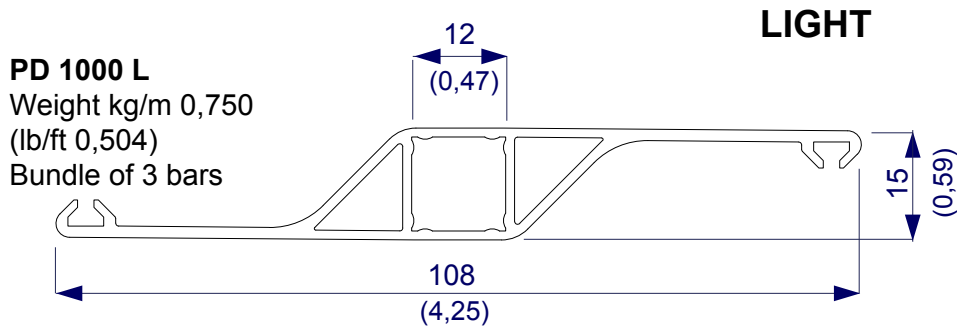
PD 1002

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

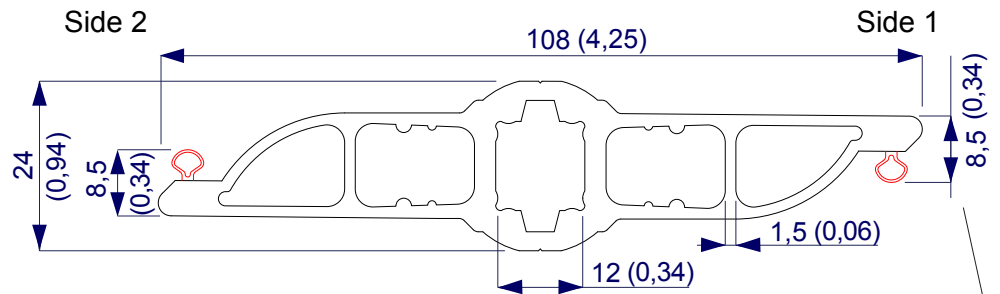


PD 1003

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



PLA PD 1000 G2
with gaskets on both sides
Weight kg/m 0,752
(lb/ft 0,505)
Bundle of 3 bars

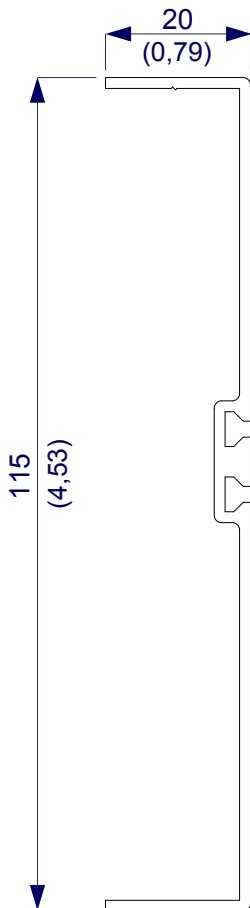


PLA PD 1000 G1
with gasket on side 1
Weight kg/m 0,752
(lb/ft 0,505)
Bundle of 3 bars

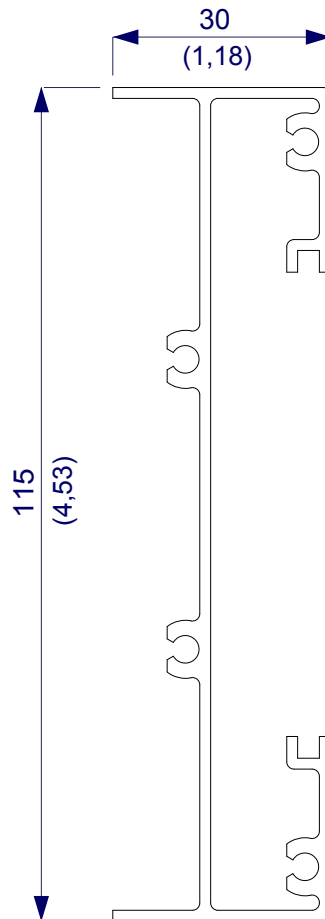
With co-extruded gasket

PLA PD 1000 G0
without gasket
Weight kg/m 0,752
(lb/ft 0,505)
Bundle of 3 bars

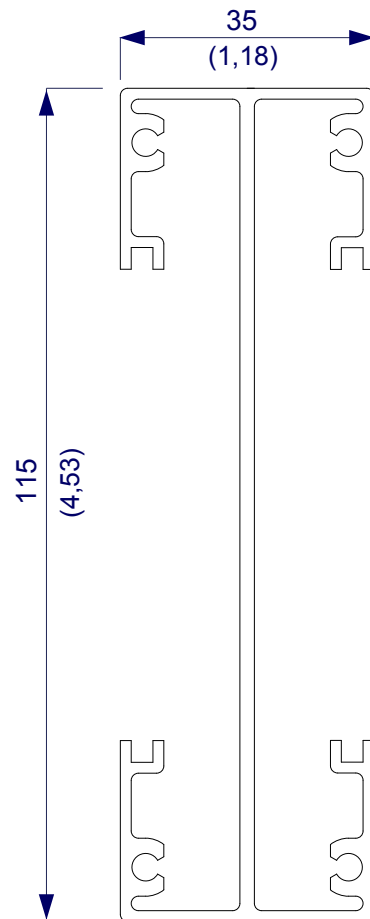
PD 1008
See page 8



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

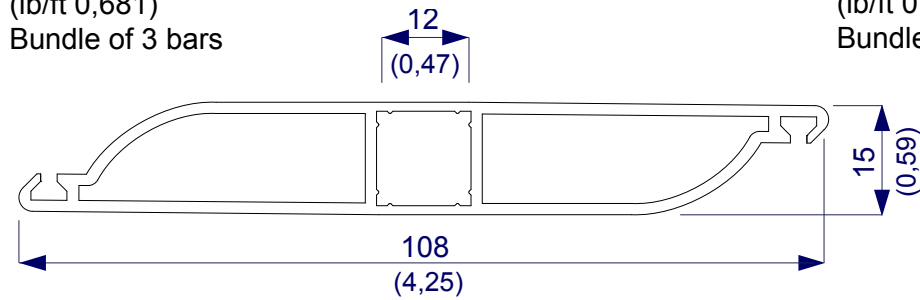


PD 1003 L
Weight kg/m 1,656
(lb/ft 1,113)
Bundle of 3 bars

REINFORCED

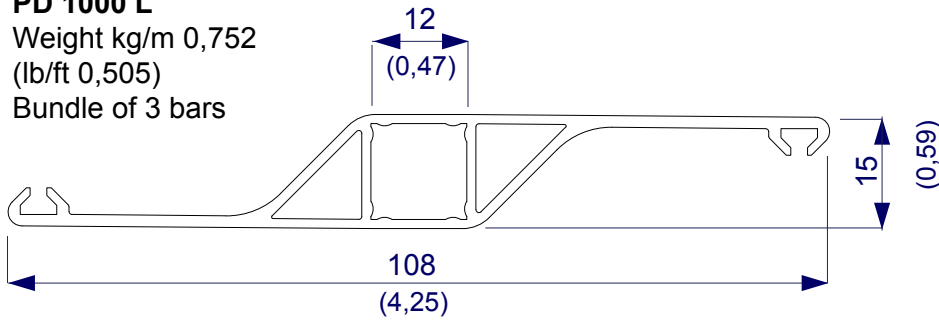
PD 1000

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



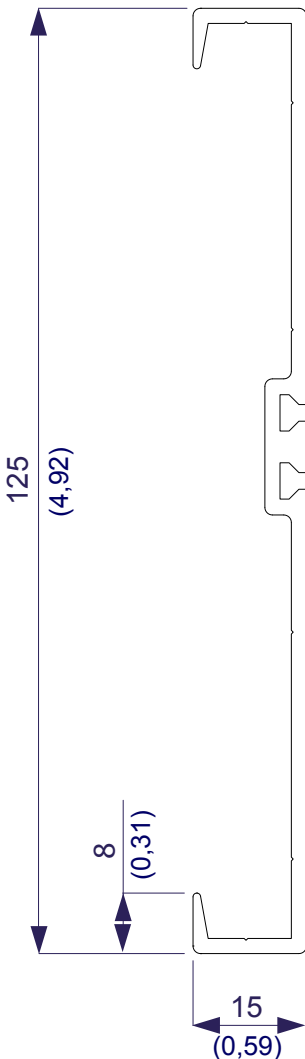
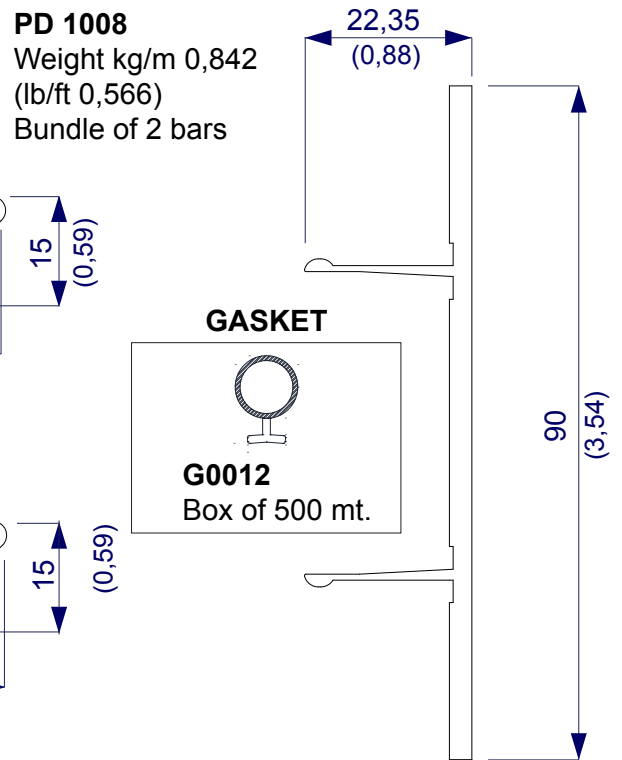
PD 1000 L

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



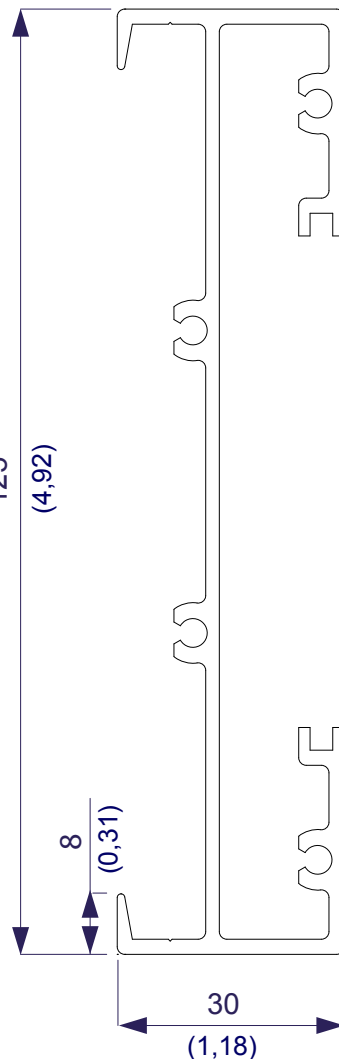
PD 1008

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



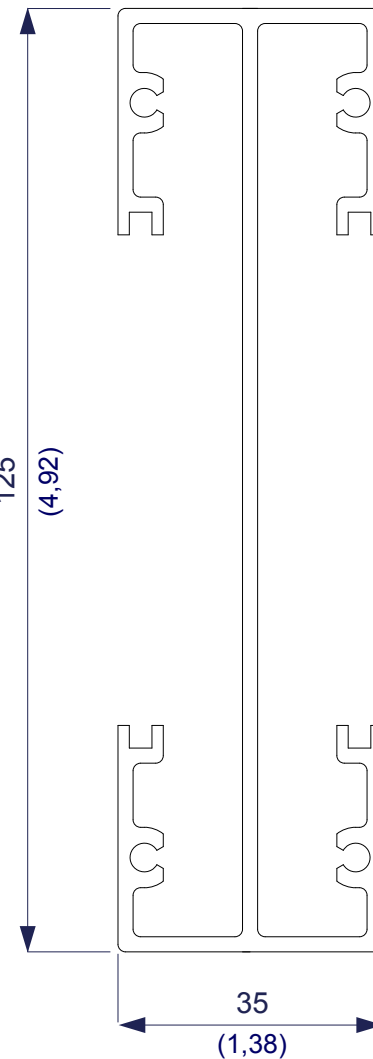
PD 1001 G

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



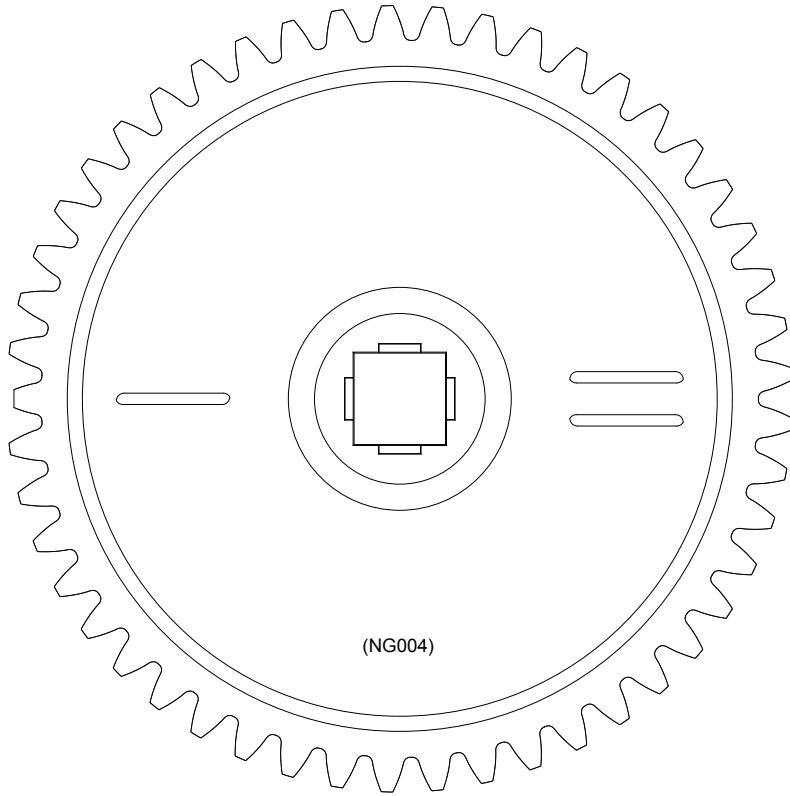
PD 1002 G

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

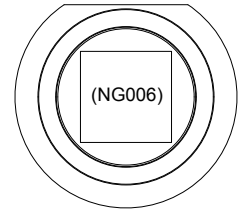
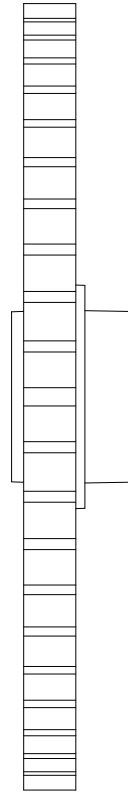


PD 1003

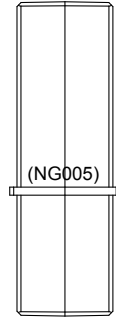
Weight kg/m 1,994
(lb/ft 1,340)
Bundle of 3 bars



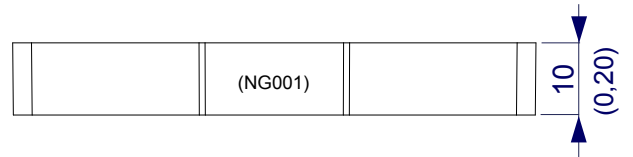
(NG004)



(NG006)



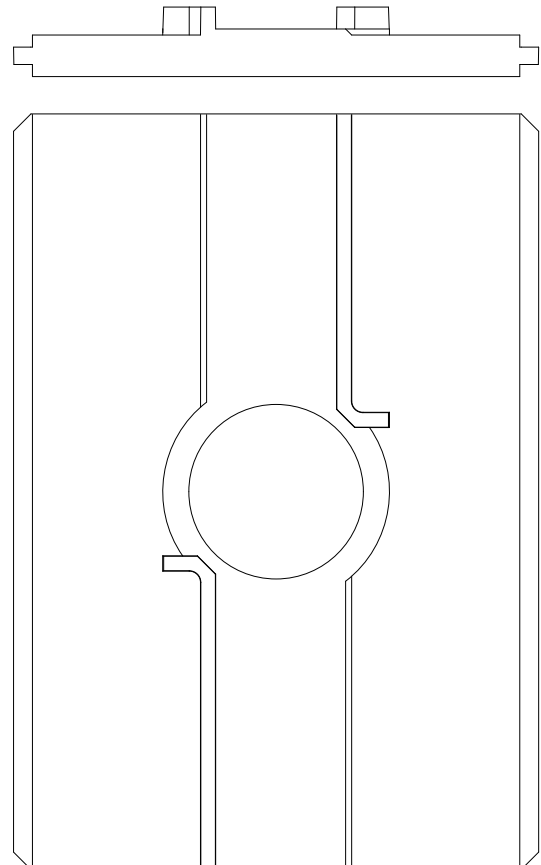
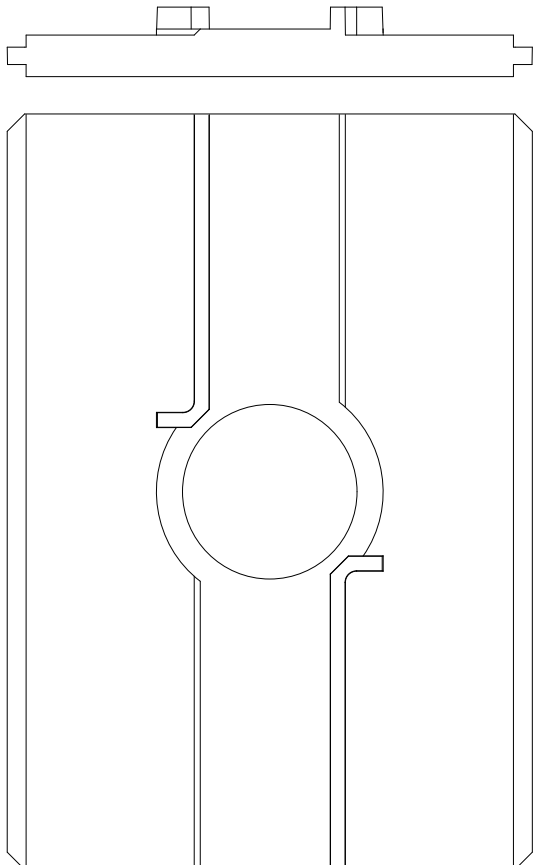
(NG005)



(NG001)

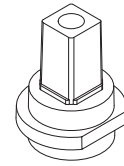
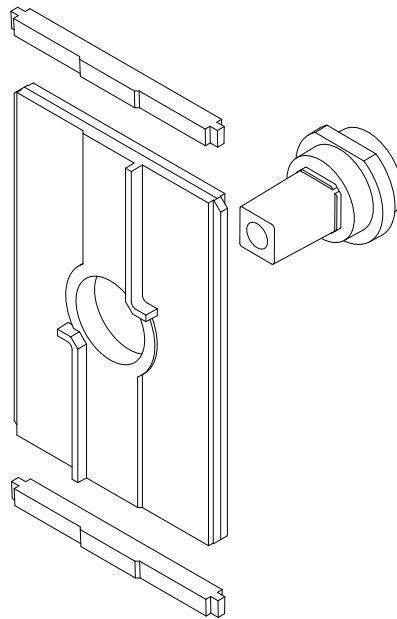
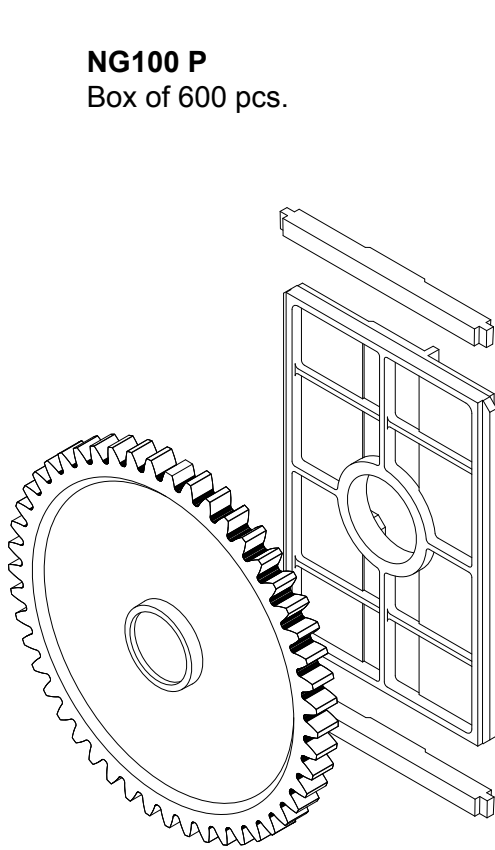
10
(0,20)

NG100
Box of 600 pcs.



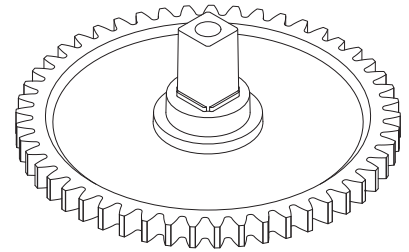
NG100 P

Box of 600 pcs.



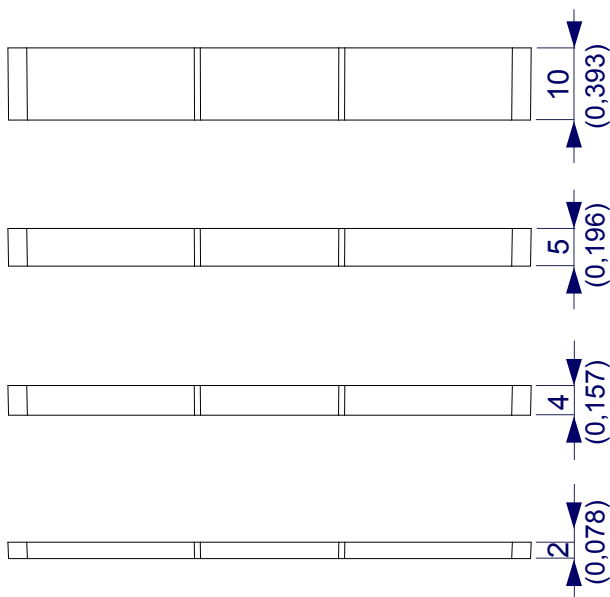
NG006P

Bushing with integrated pin



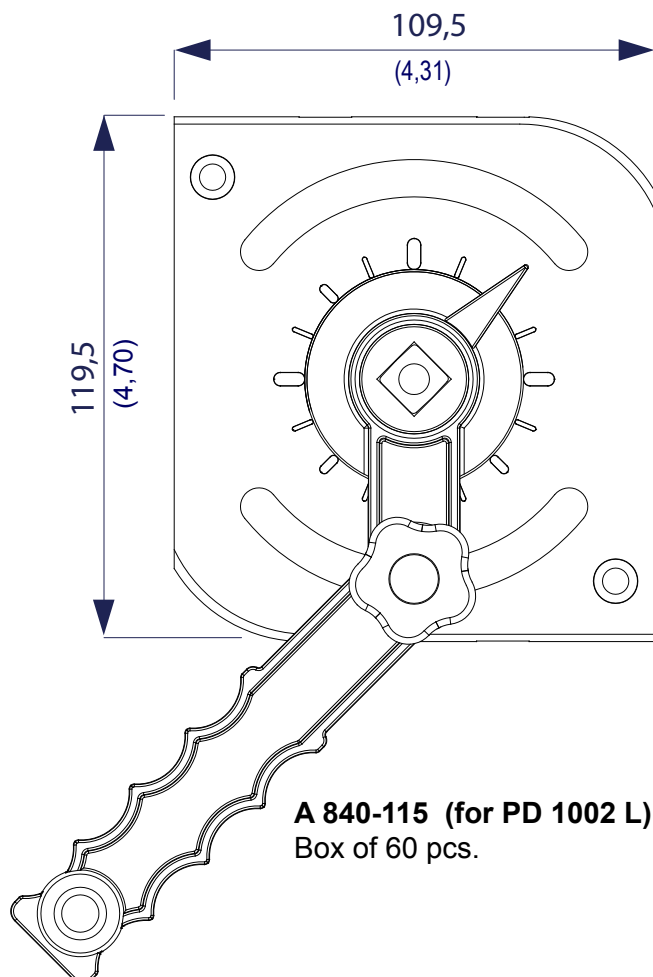
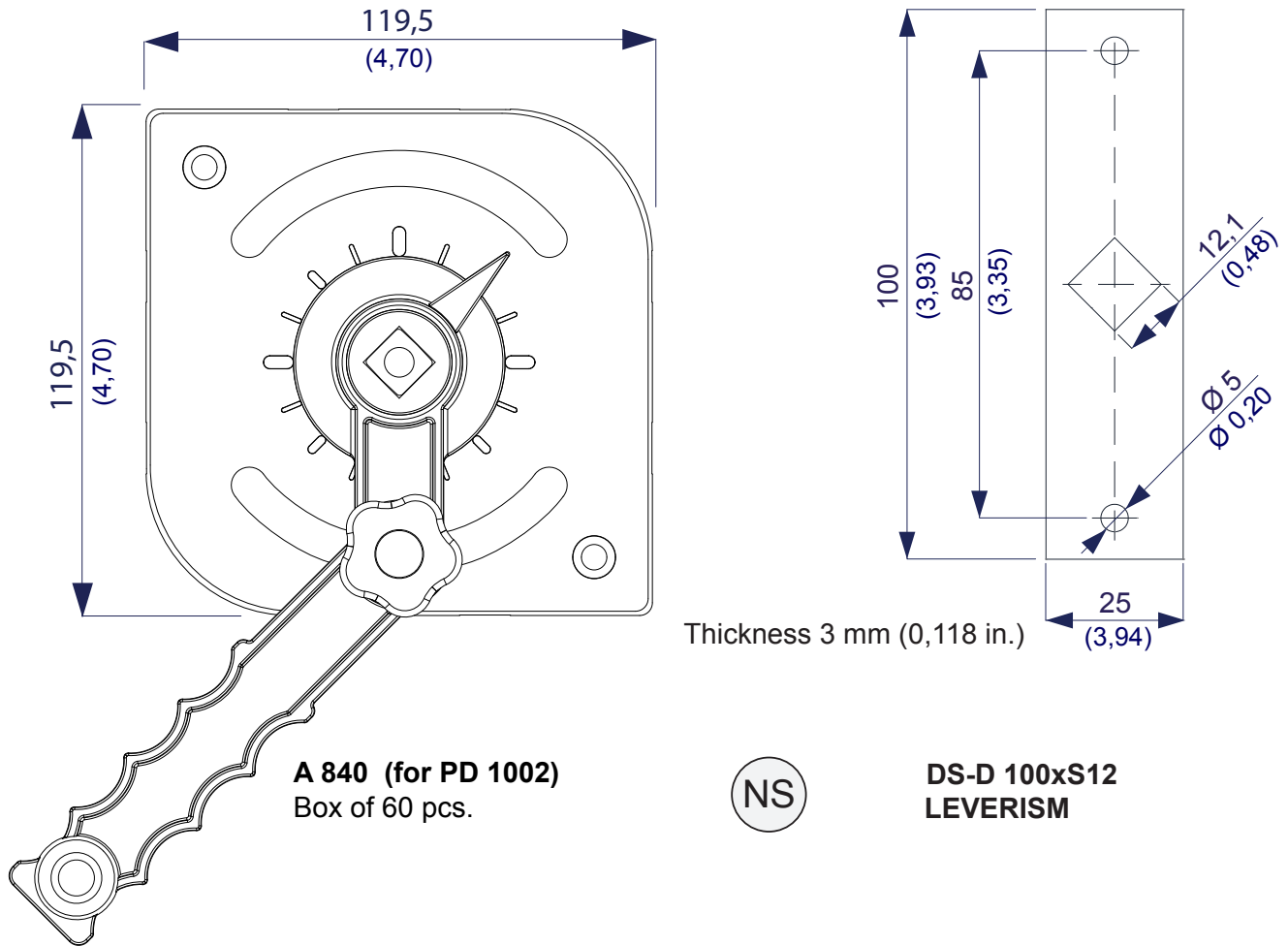
NG004P

Gear with integrated pin



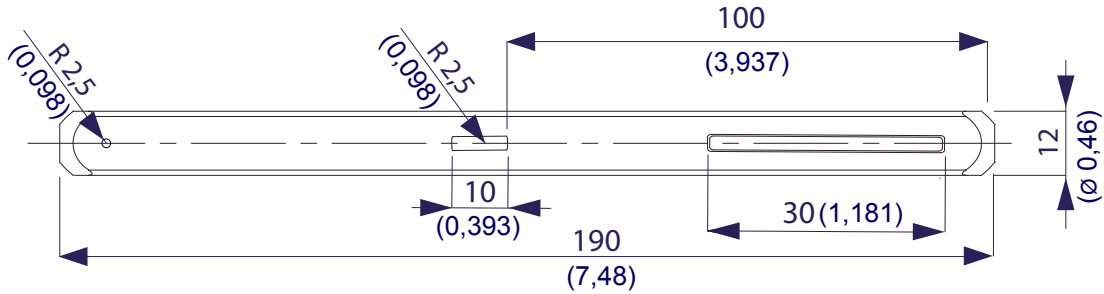
NG001

Available different spacer thickness



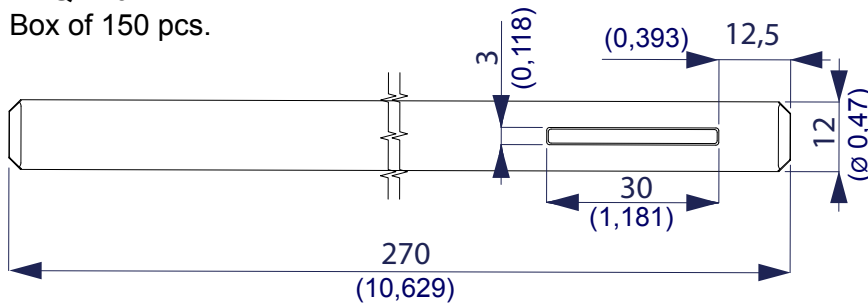
AP 190

Box of 150 pcs.



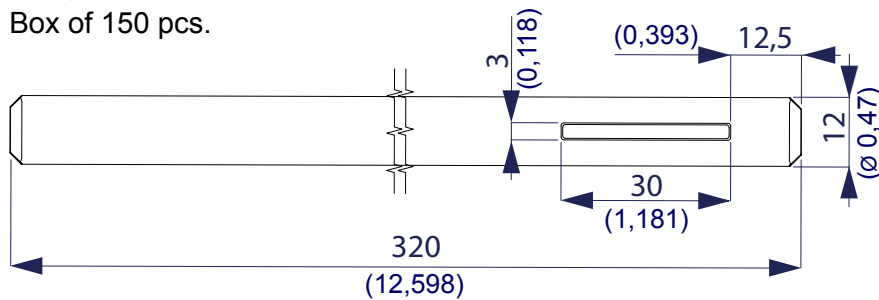
APQ 270

Box of 150 pcs.



APQ 320

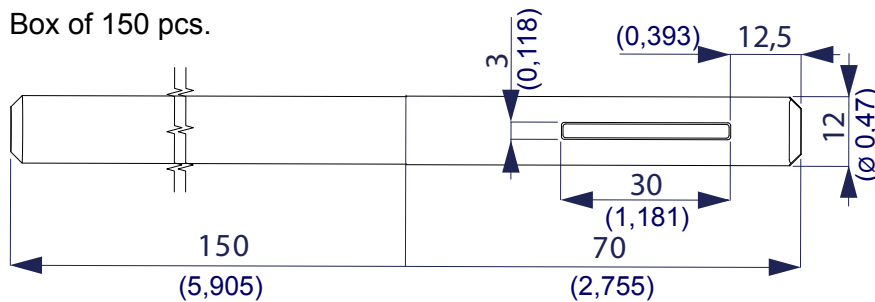
Box of 150 pcs.



NS

APT 220

Box of 150 pcs.



3D Representation of single damper pitch 50 mm

FORMULA PITCH 50 mm

SINGLE DAMPER

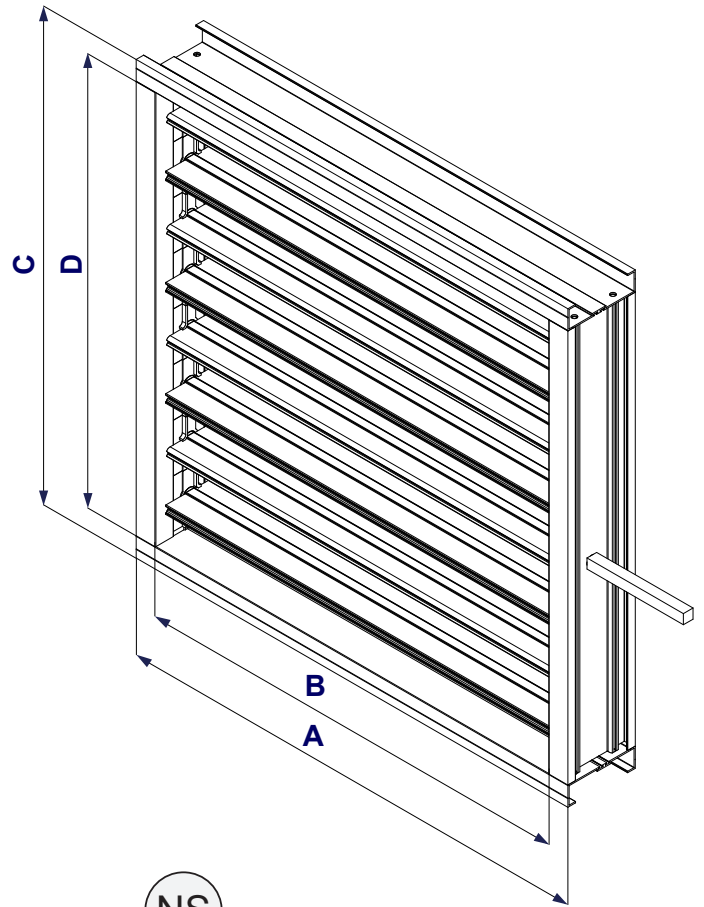
$$A = B + 40 \text{ mm}$$

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

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

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

D = See table below



DIMENSION FOR PROFILE "D"

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

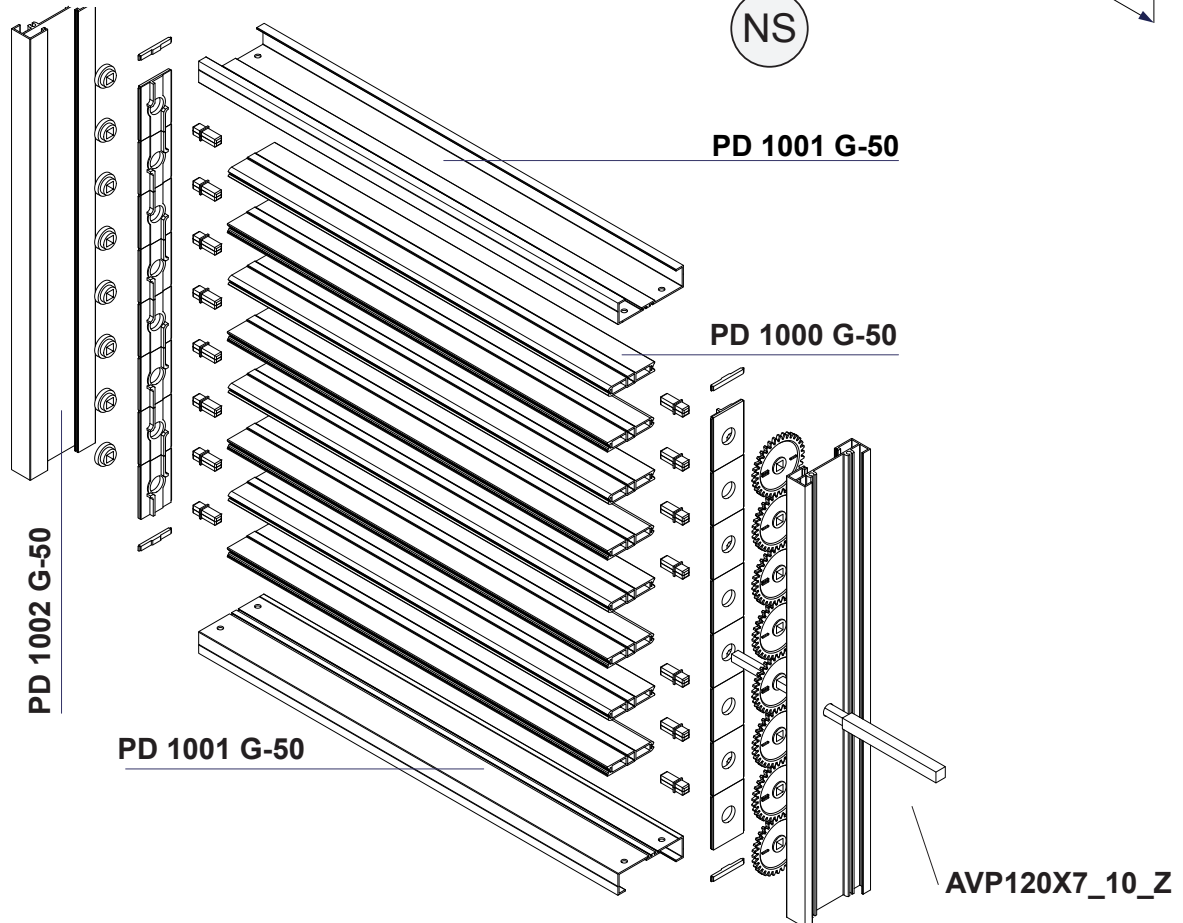
TOLERANCES

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

NS



3D Representation of double damper pitch 50 mm CLASS 2

FORMULA PITCH 50 mm

DOUBLE DAMPER

$$A = B + 40 \text{ mm}$$

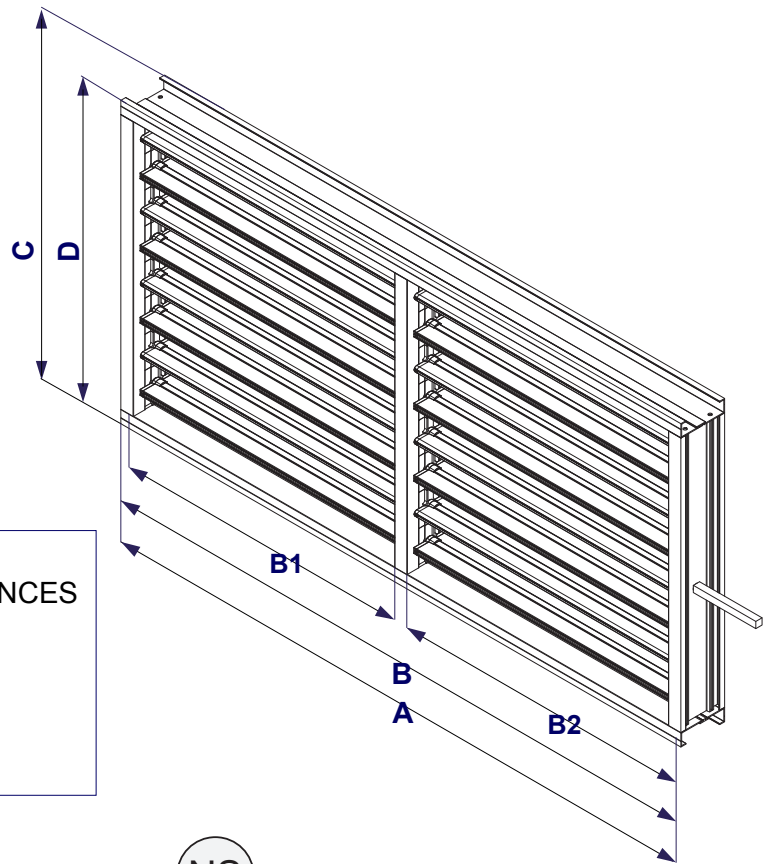
$$B1 = B2 = (B - 20 \text{ mm})/2$$

$$\text{BLADE length} = B1 - 2 \text{ mm} = B2 - 2 \text{ mm}$$

$$\begin{aligned} \text{BLADE length NG007-50} &= B1 - 10.5 \text{ mm} \\ &= B2 - 10.5 \text{ mm} \end{aligned}$$

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

$$D = \text{see table on page 13}$$



"D" SHOULDER PROFILE SIZING

$$L = \text{No. of blades} \times 50 \text{ mm} + 8 \text{ mm} + \text{TOLERANCES}$$

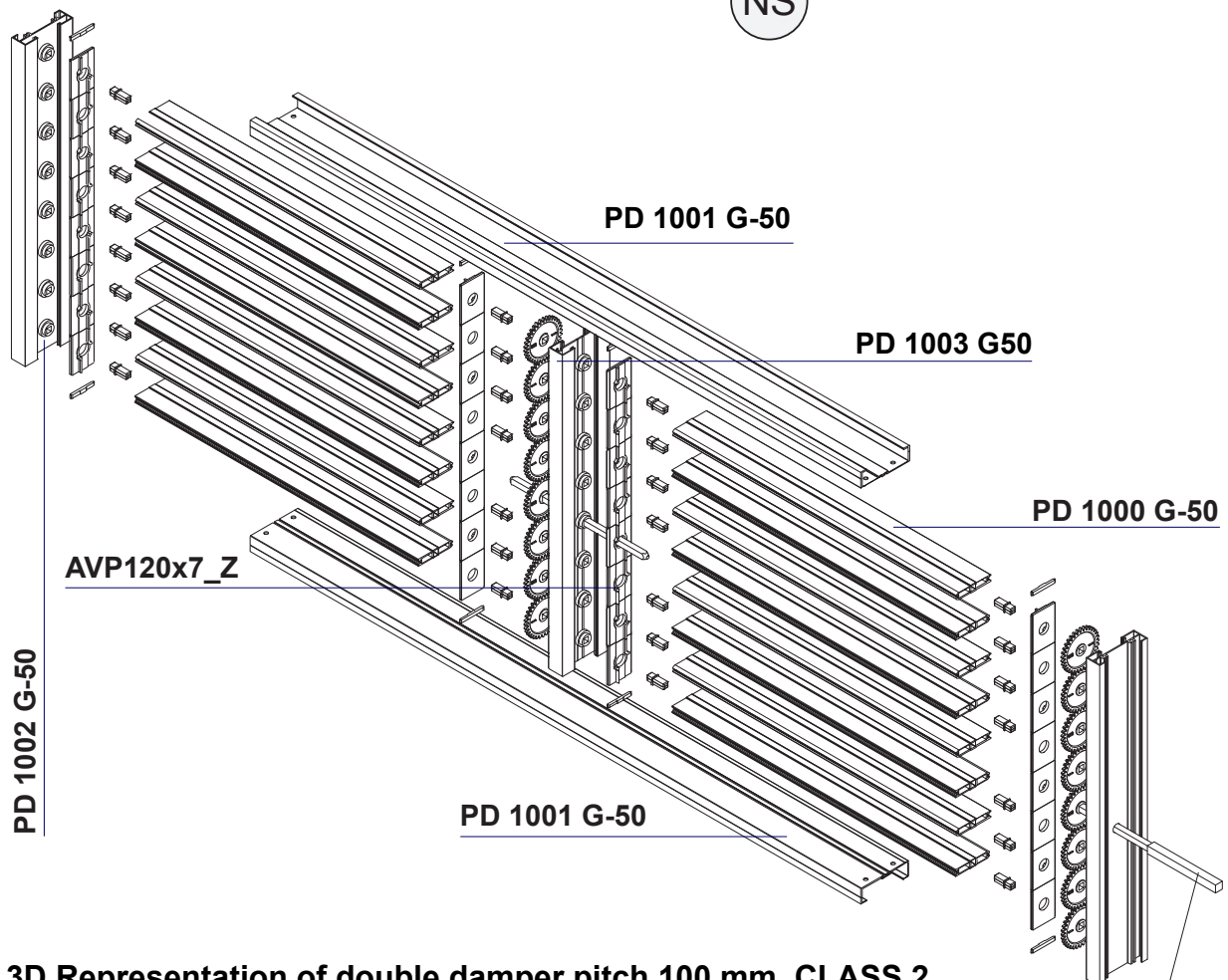
TOLERANCES

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

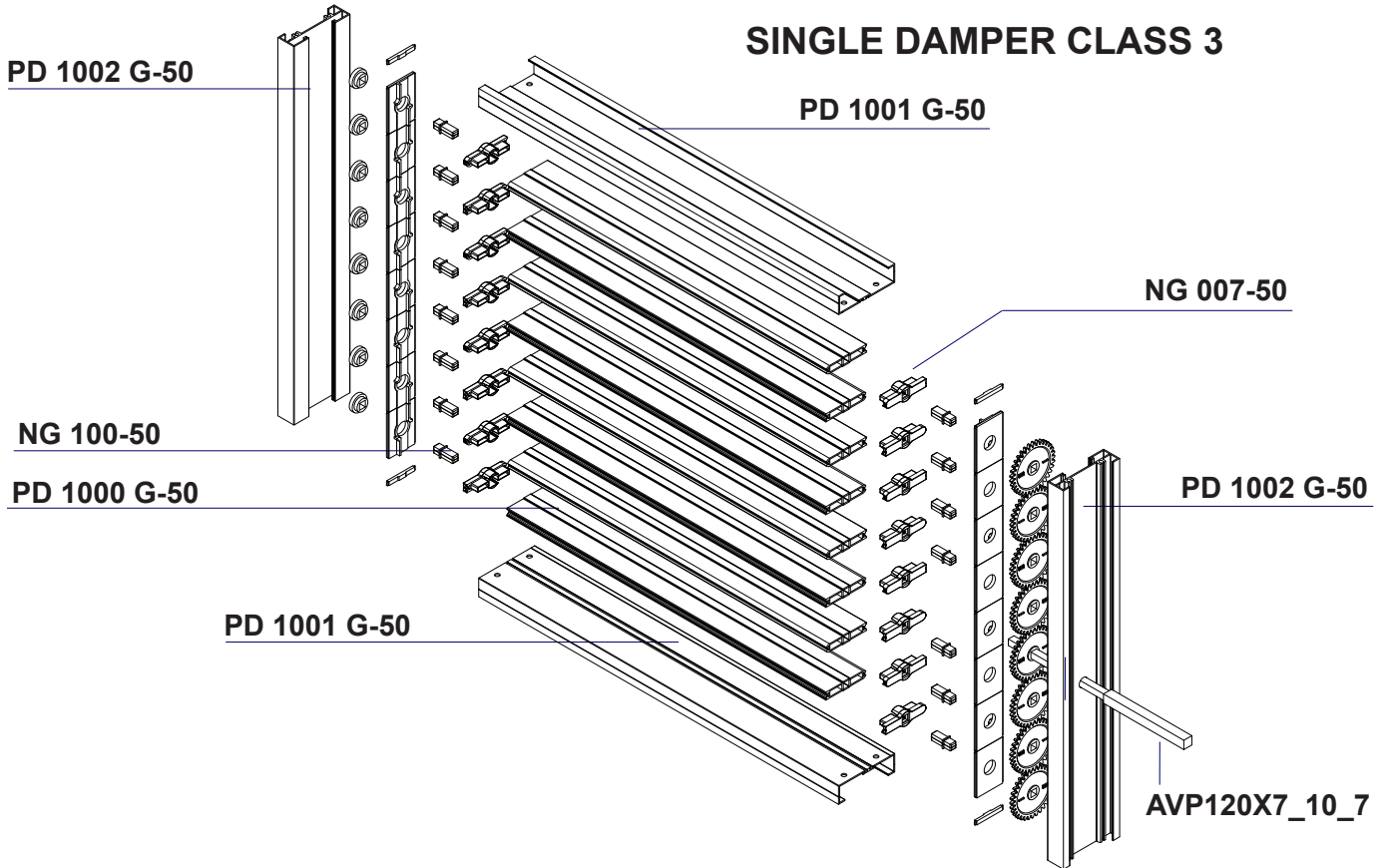
NS



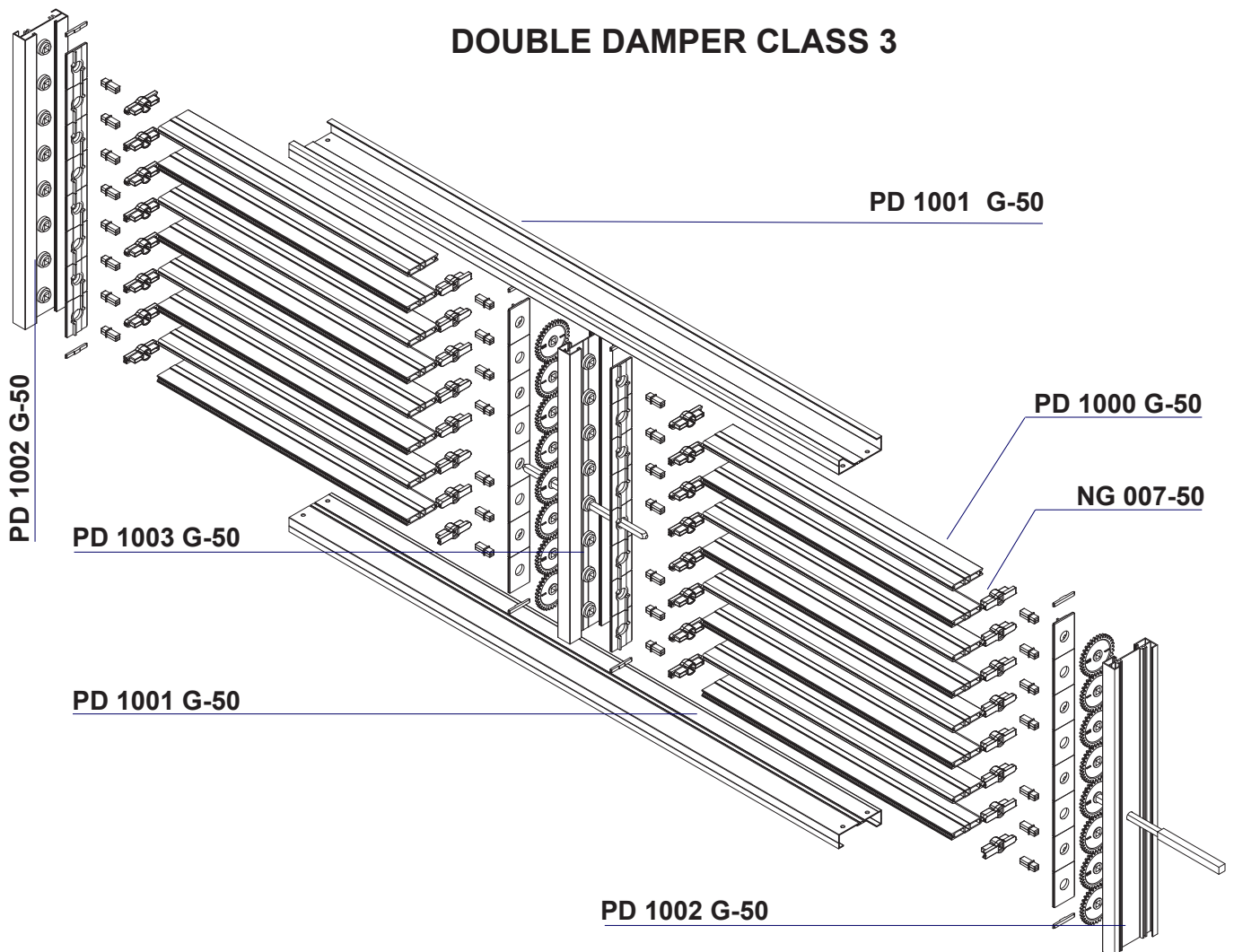
3D Representation of double damper pitch 100 mm. CLASS 2

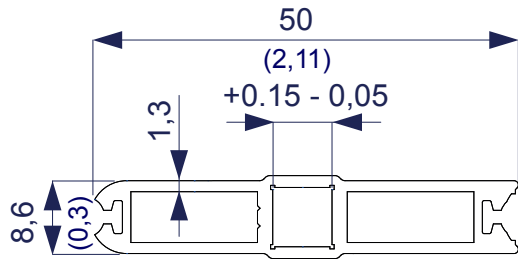
AVP120X7_10Z

SINGLE DAMPER CLASS 3

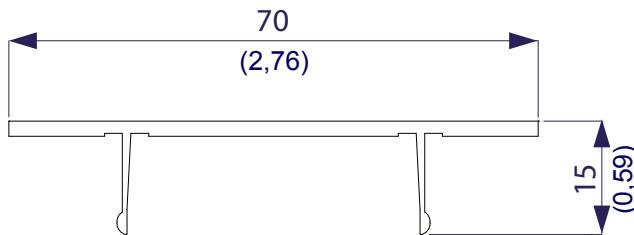


DOUBLE DAMPER CLASS 3



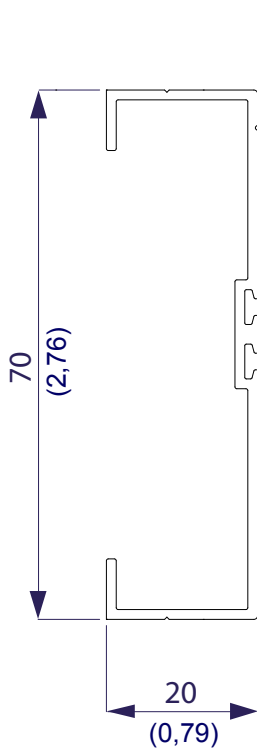
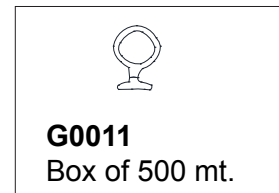


PD 1000 G-50
Weight kg/m 0,428
(lb/ft 0,288)
Bundle of 4 bars

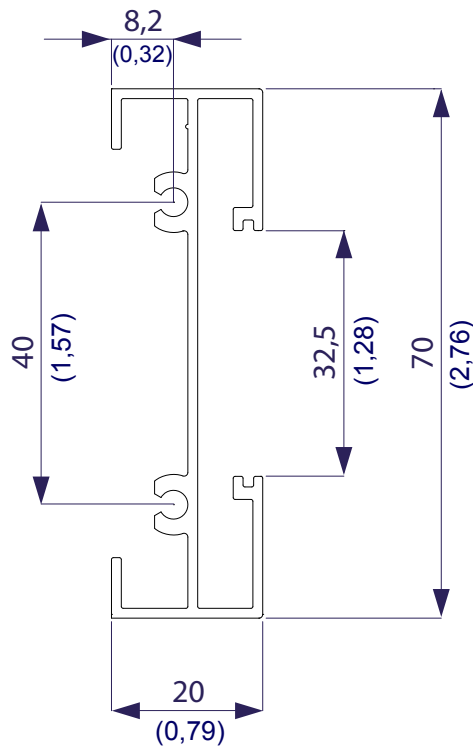


PD 1008 G-50
Weight kg/m 0,439
(lb/ft 0,295)
Bundle of 2 bars

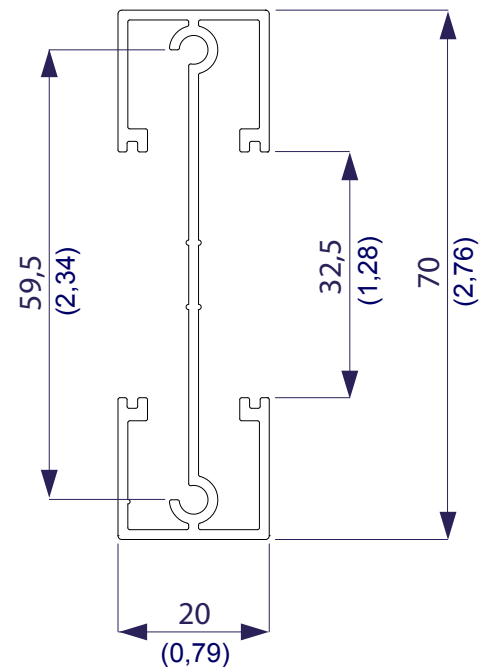
GASKET



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

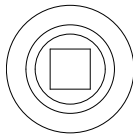
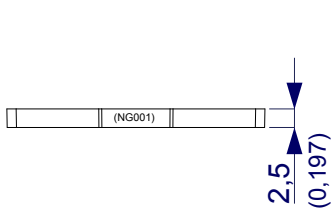
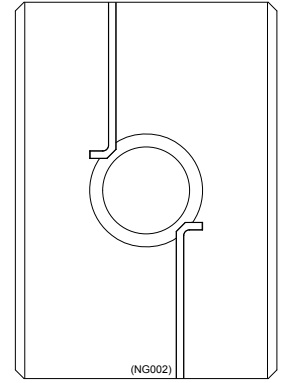
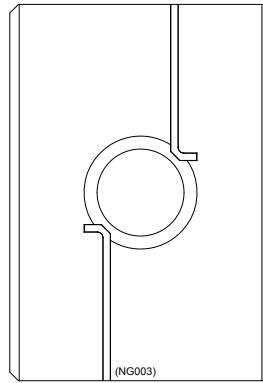
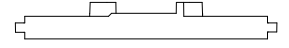
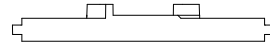
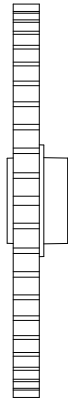
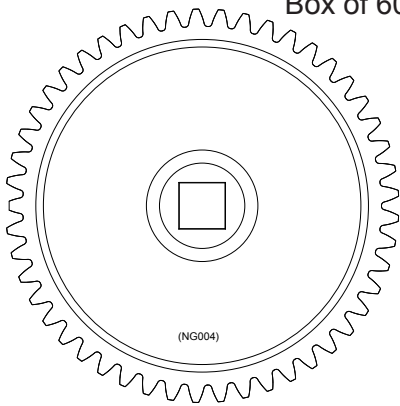


PD 1002 G-50
Weight kg/m 0,702
(lb/ft 0,472)
Bundle of 4 bars

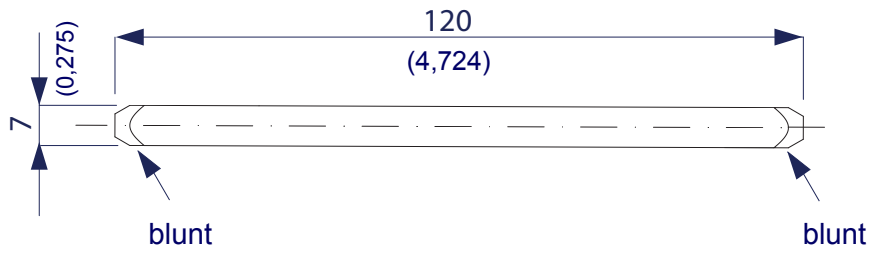


PD 1003 G-50
Weight kg/m 0,750
(lb/ft 0,504)
Bundle of 3 bars

NG100-50
Box of 600 pcs.

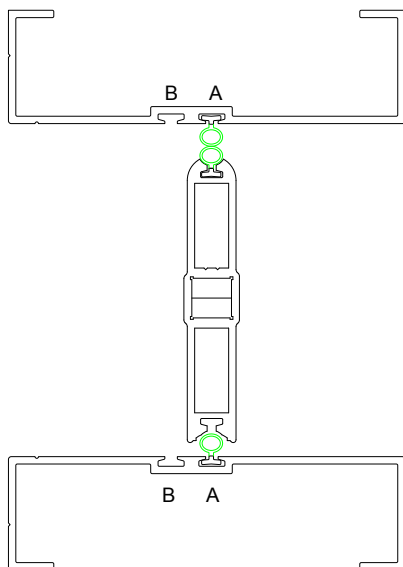


AVP120X7_Z

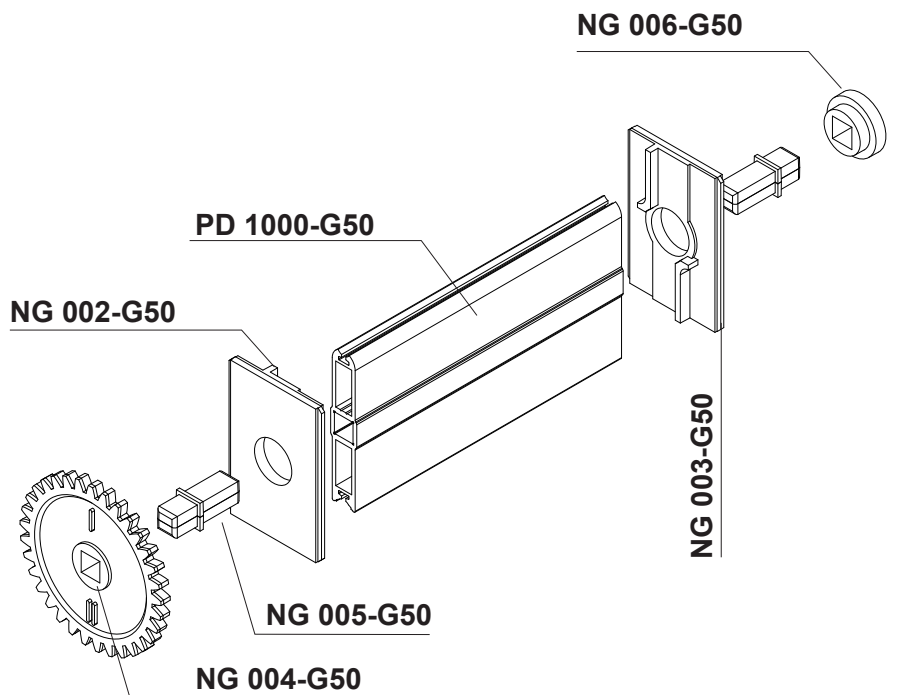


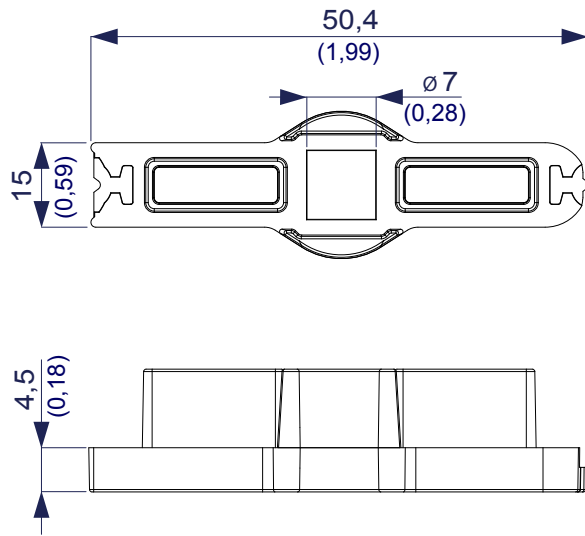
GASKET LAYOUT

Assembly arrangement



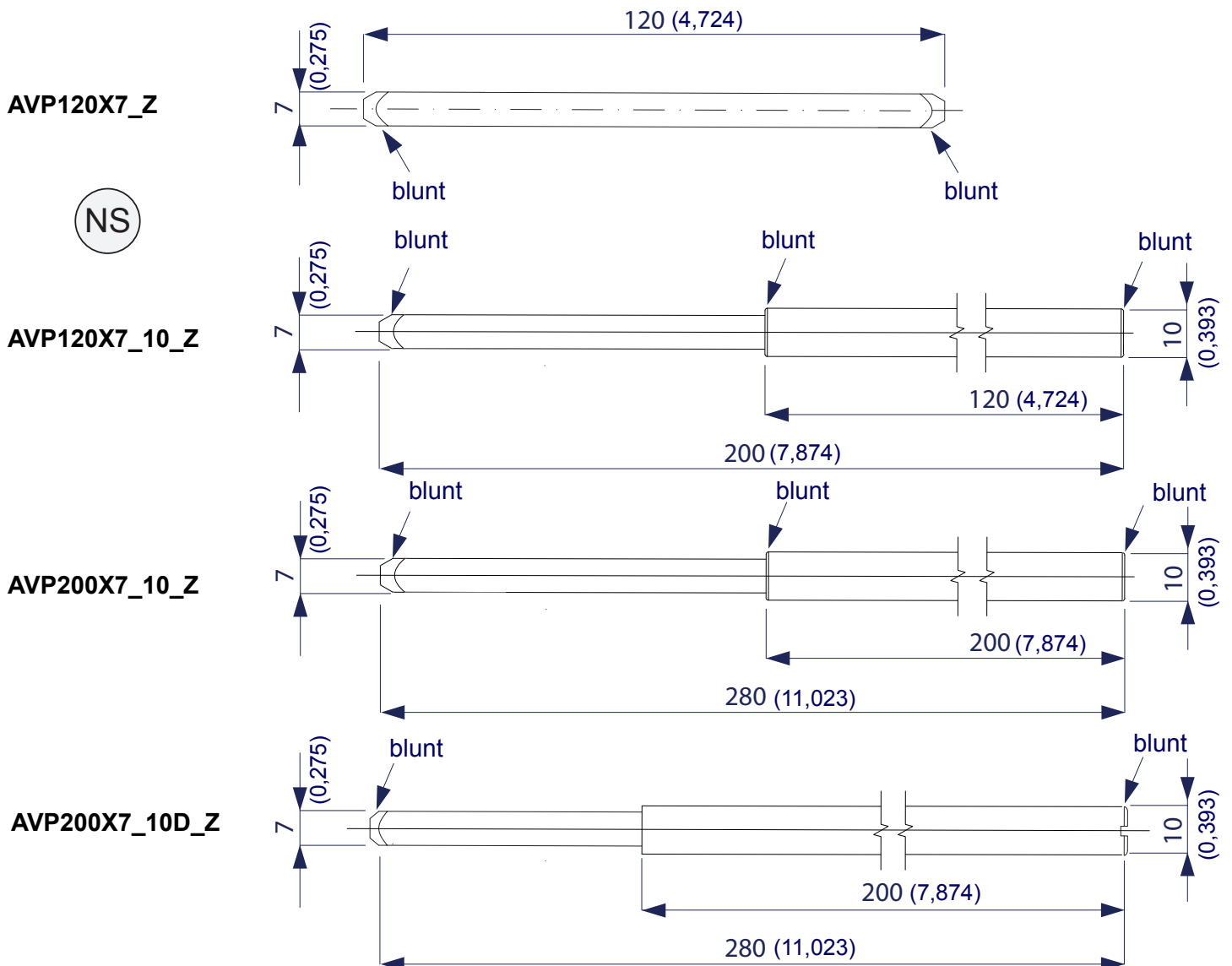
BLADE ASSEMBLING



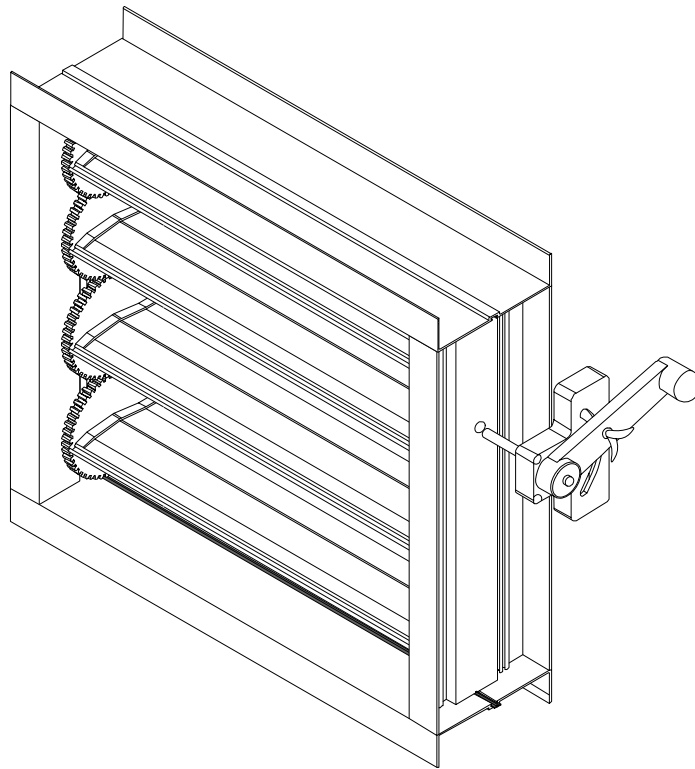


NS

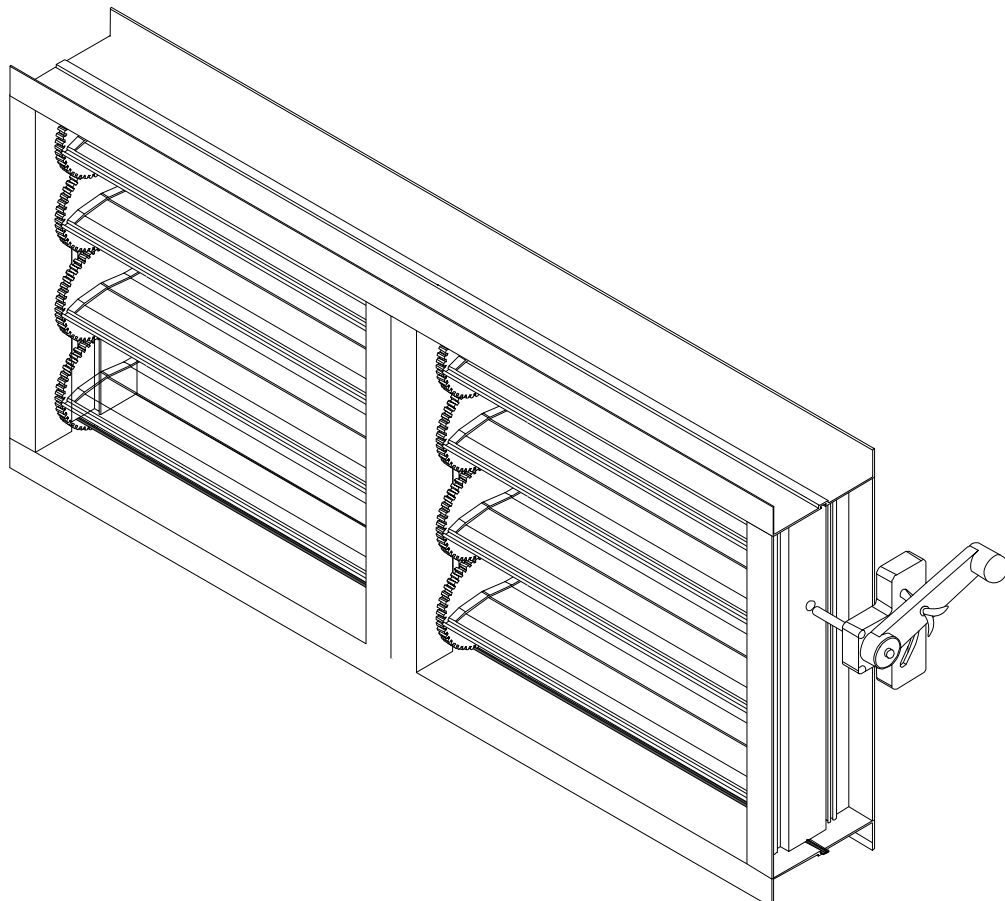
BLADE PLUGS CLASS 3
NG007-50
Box of 400 pcs.



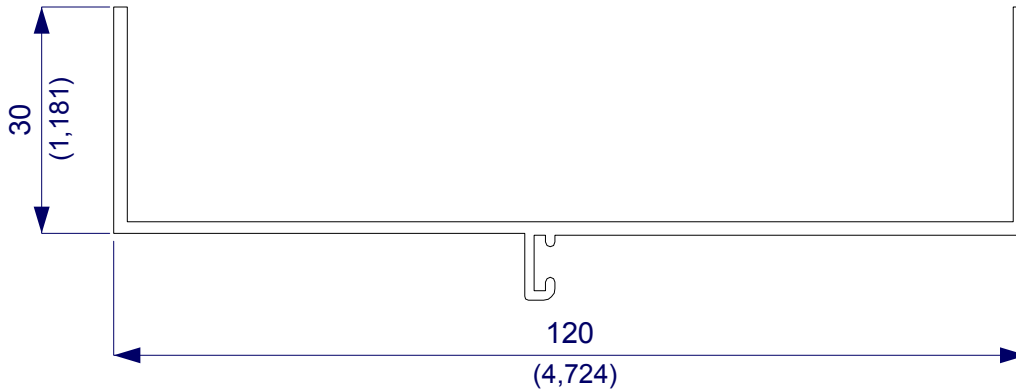
3D Representation of single damper



3D Representation of double damper



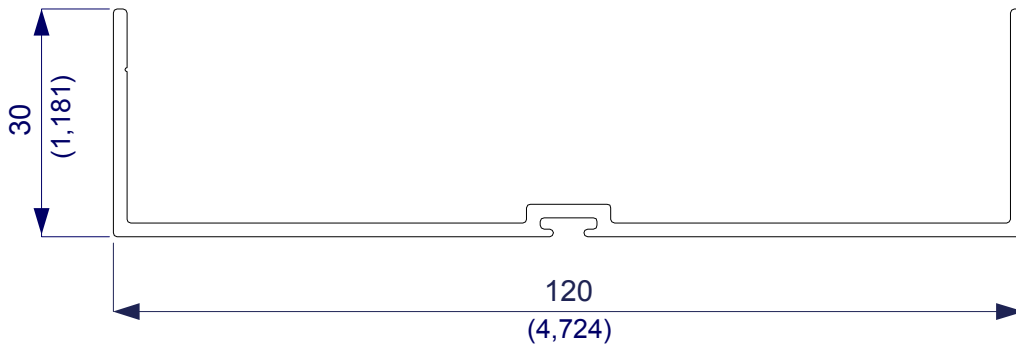
Aluminium profiles for single and double damper



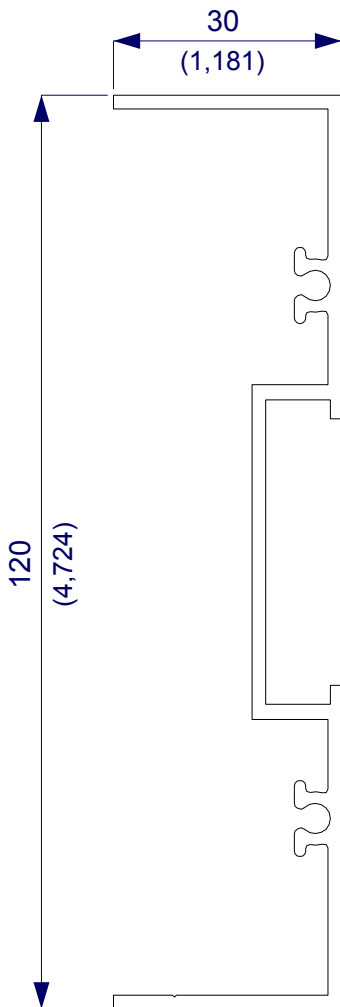
P 127
Weight kg/m 0,873
(lb/ft 0,587)
Bundle of 6 bars



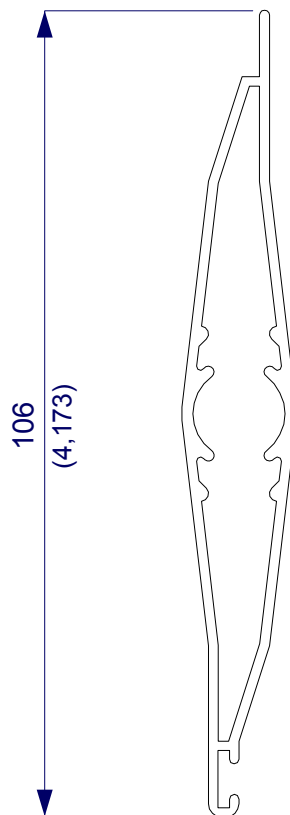
P 12
Weight kg/m 0,312
(lb/ft 0,210)
Bundle of 10 bars



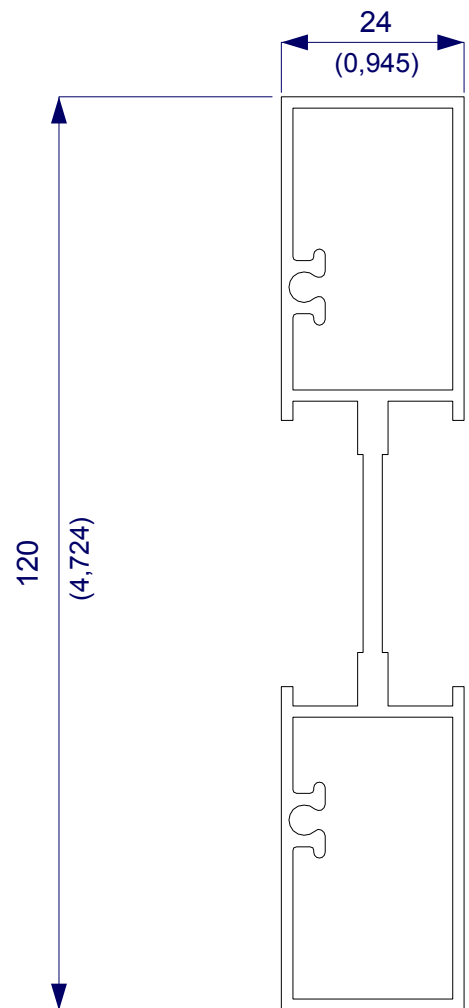
P 118
Weight kg/m 0,917
(lb/ft 0,616)
Bundle of 6 bars



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

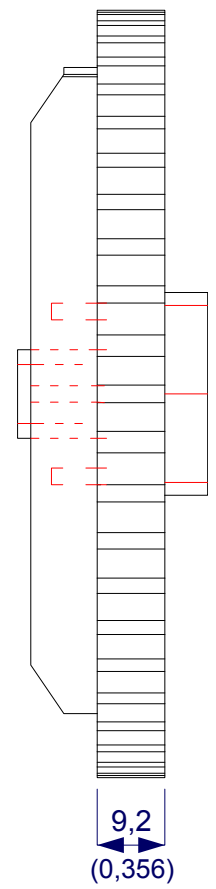
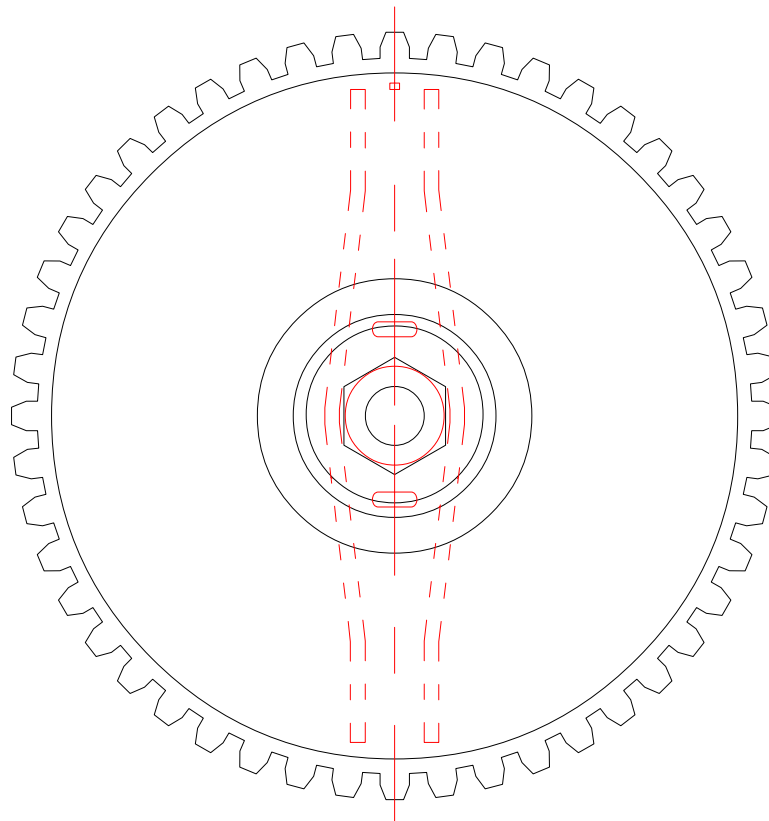
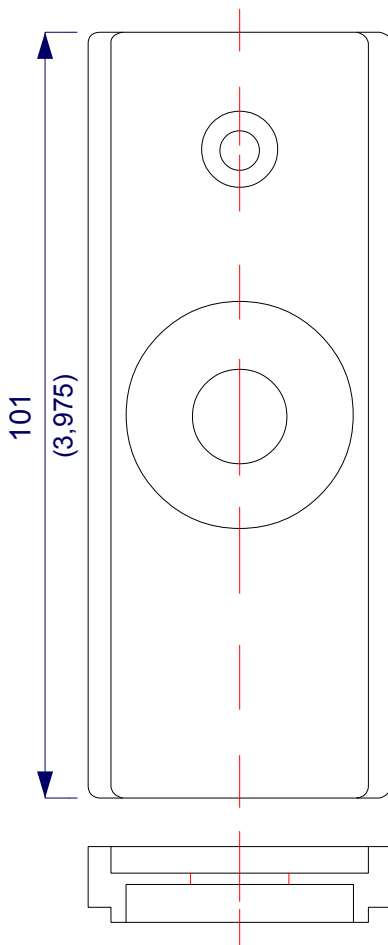


P 126
Weight kg/m 0,842
(lb/ft 0,566)
Bundle of 4 bars



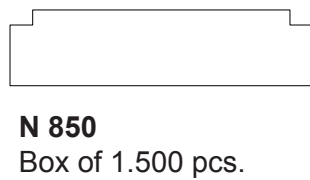
P 128
Weight kg/m 1,546
(lb/ft 1,039)
Bundle of 4 bars

Accessories for single and double damper



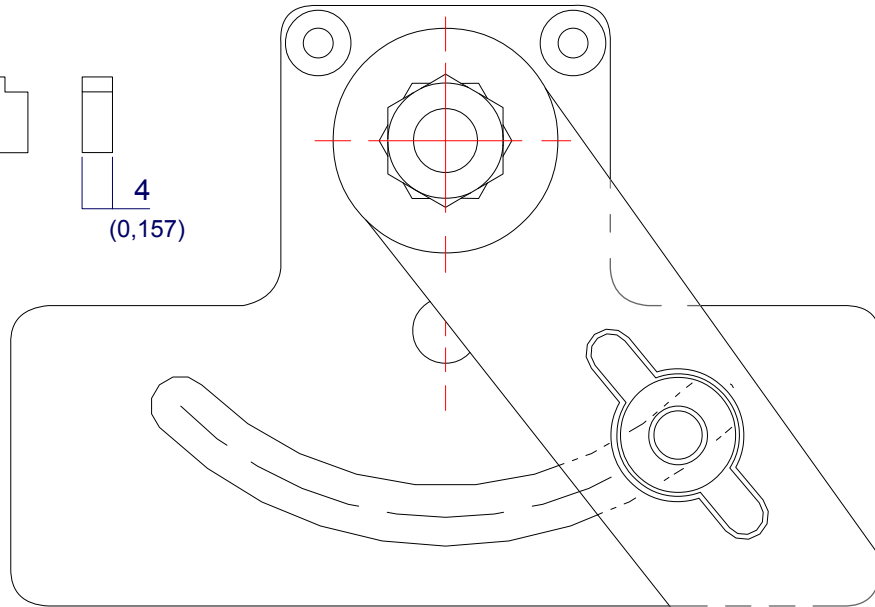
N 830
 Box of 240 pcs.

9,2
 (0,356)





N 850
 Box of 1.500 pcs.

4
 (0,157)

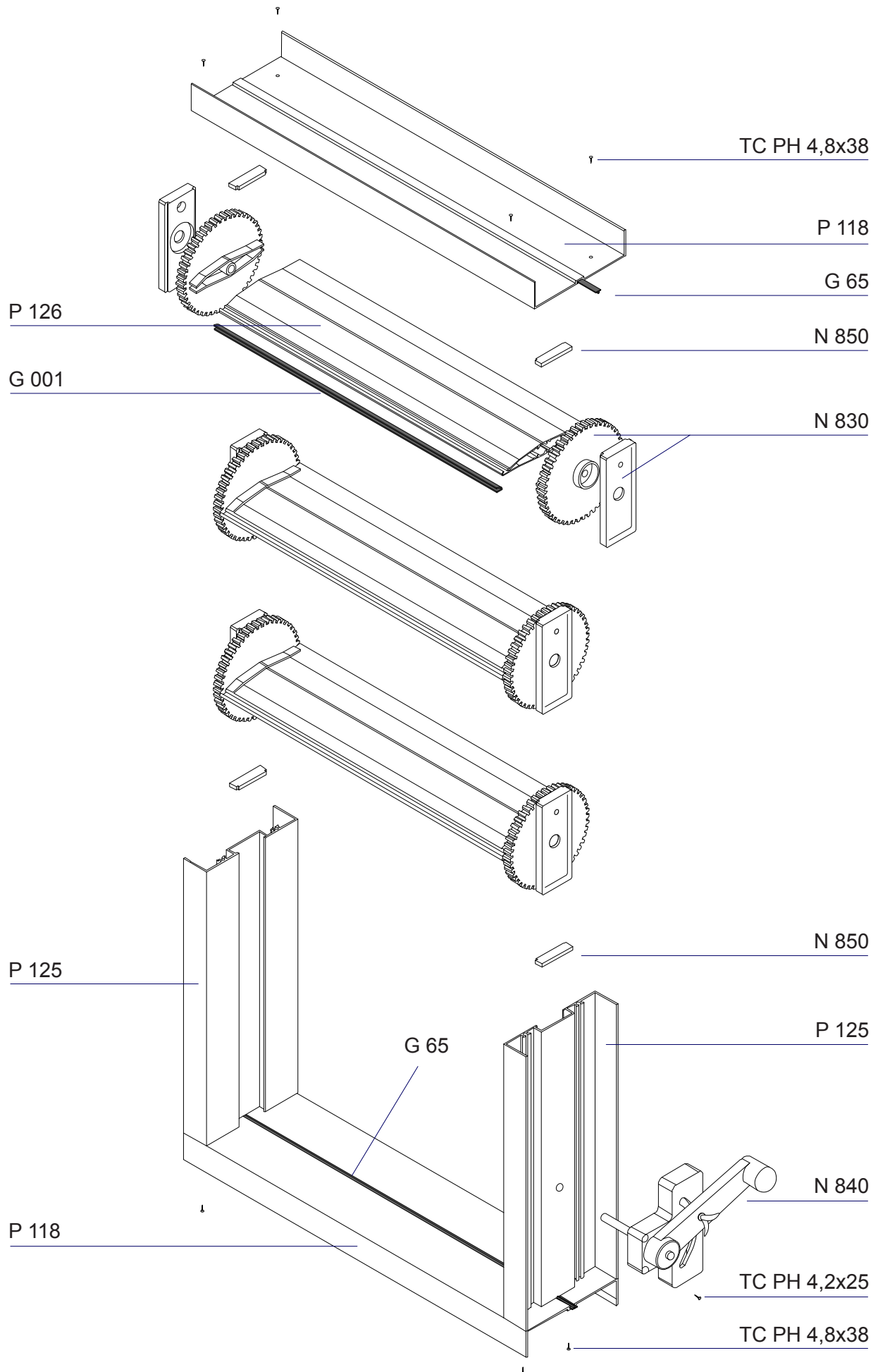


N 840
 Box of 50 pcs.

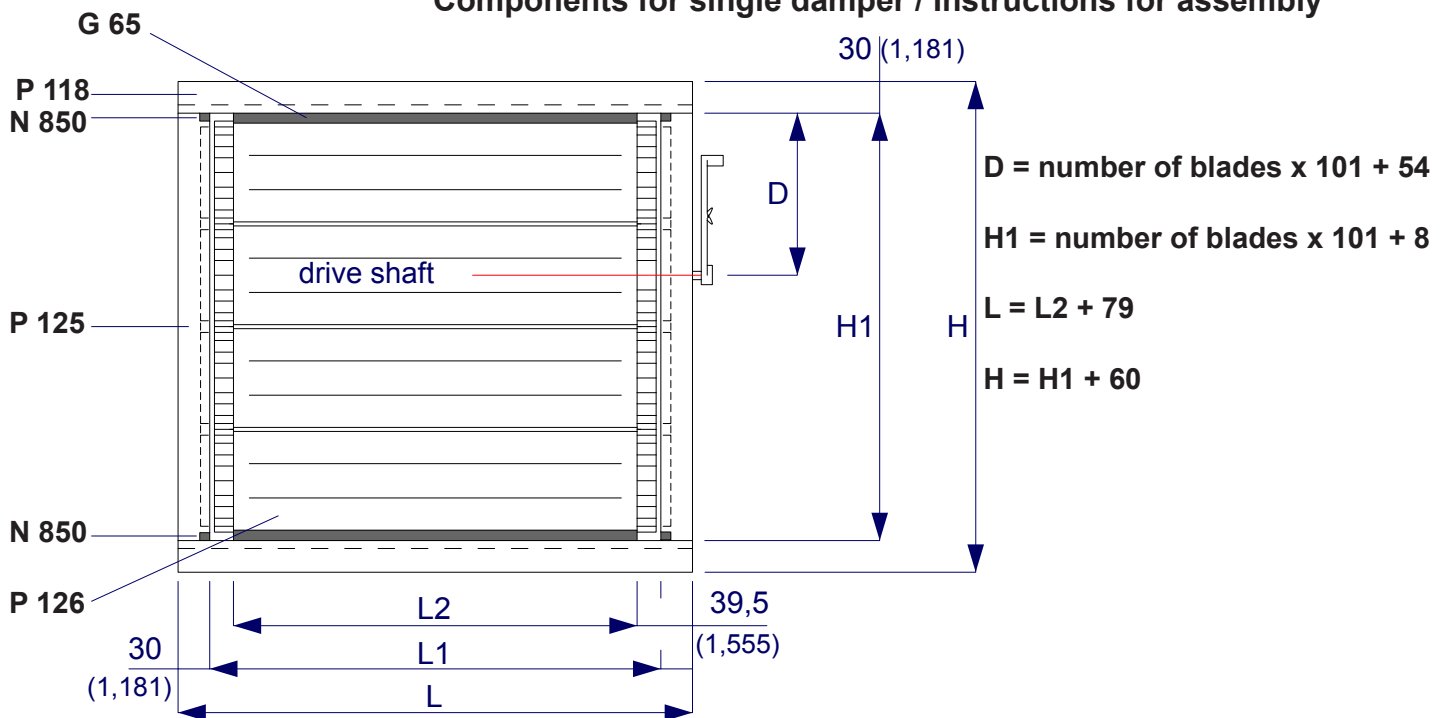
GASKET


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

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

3D representation of single damper

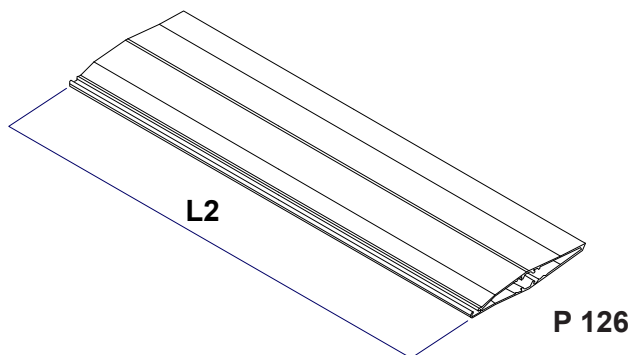


Components for single damper / Instructions for assembly



1

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



3

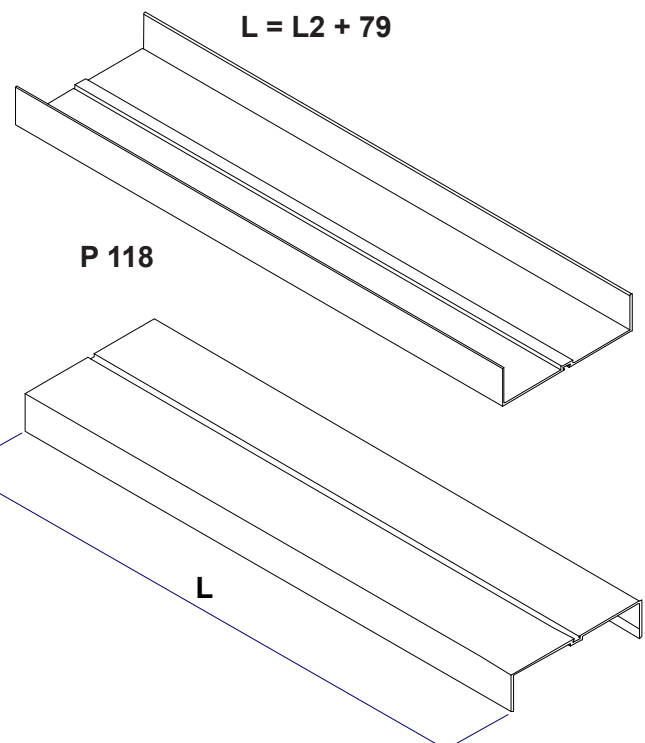
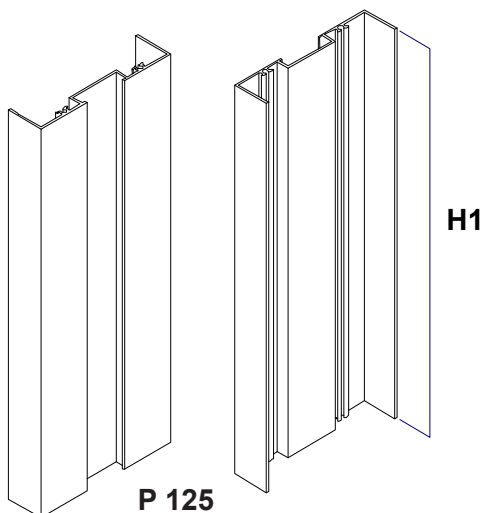
Cut 2 end pieces **P 118** (top and bottom) to a length of:

L = L2 + 79

2

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

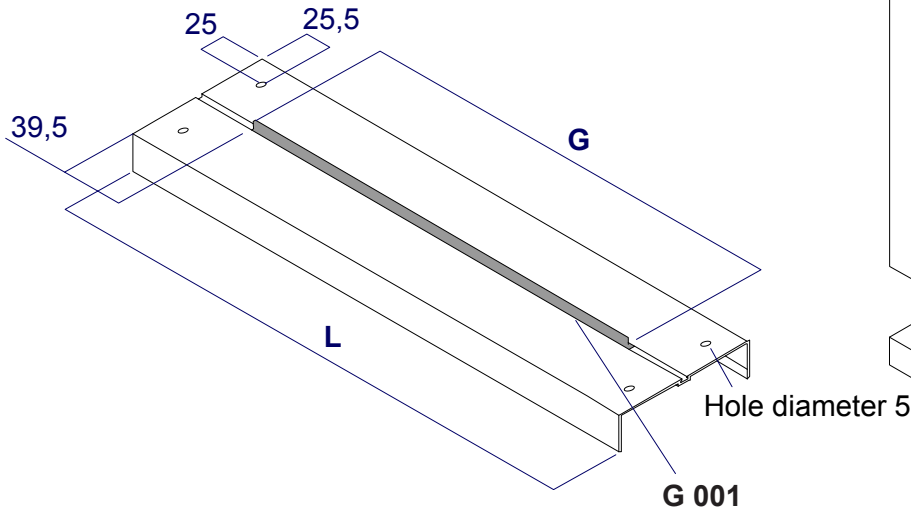
H1 = number of slats x 101 + 8



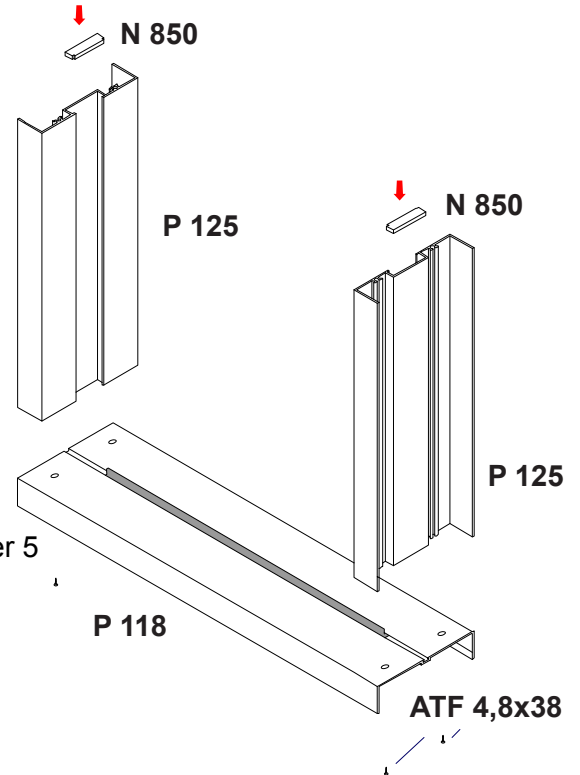
Components for single damper / Instructions for assembly

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:

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

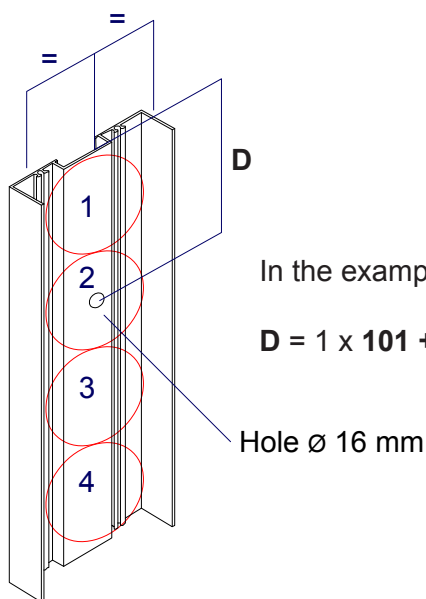


6 Using 4 self-tapping screws **ATF 4,8x38** fit bottom bar **P 118** to the 2 uprights **P 125**. Remember to insert **N 850** 4 mm thick.

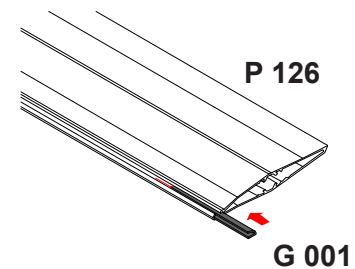


5 Drill 1 hole \varnothing 16 mm on upright **P 125** at a distance of:

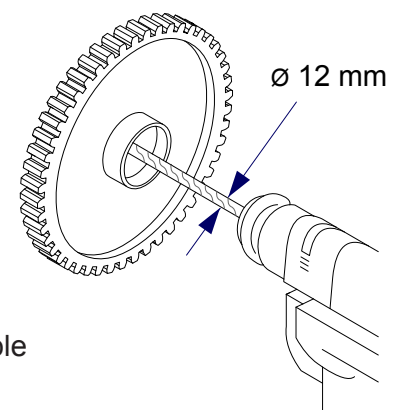
$$D = \text{number of slats from which to position the hole} \times 101 + 54$$



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



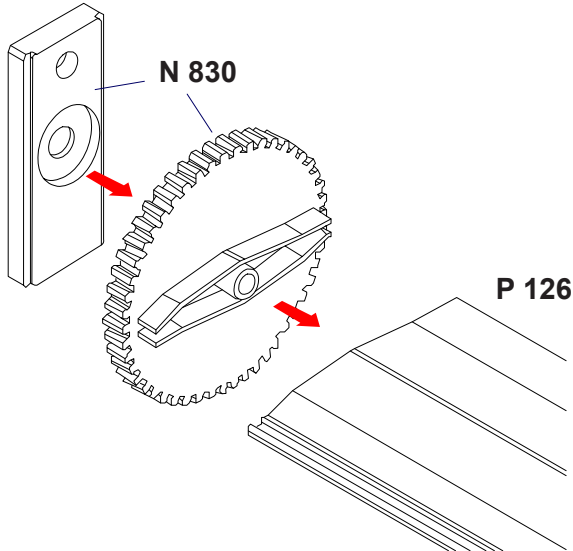
8 Drill 1 hole \varnothing 12 mm in one of the gears.
NOTE: During assembly, position the gear so that the hole \varnothing 12 mm coincides with the hole \varnothing 16 mm on upright **P 125**.



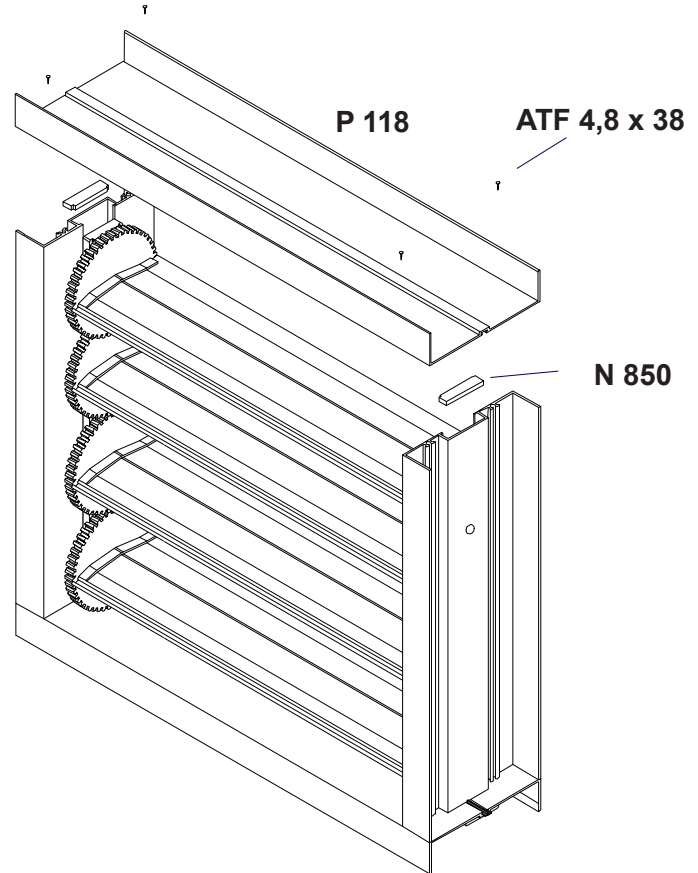
NOTE: It is advisable to keep the control mechanism as central as possible

Components for single damper / Instructions for assembly

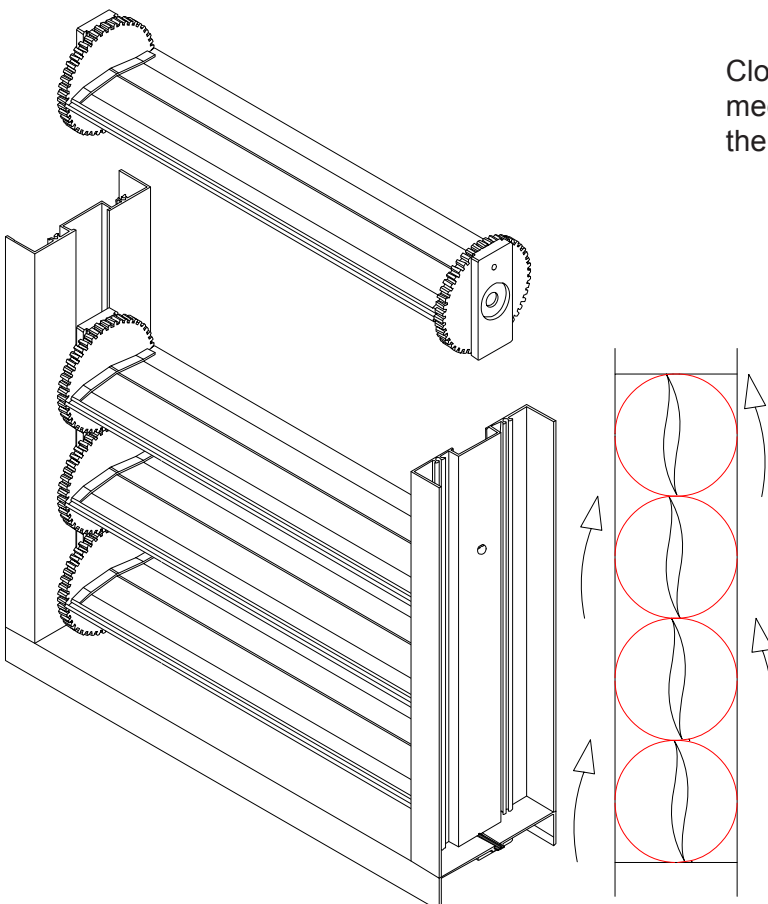
- 9** Insert the nylon gears in the tracks of the slats **P 126**, then mount **N 830** on the gears inspecting that they'll turn without effort.



- 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**

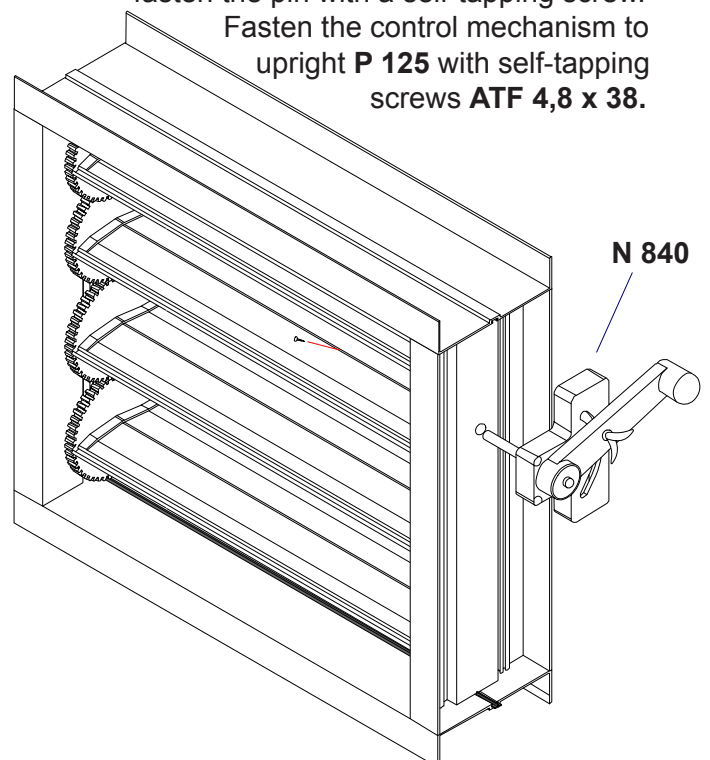


- 10** Insert the blade-spacer-gear assembly in the grooves of upright **P 125**. The gears should be coupled so that all the slats are oriented in the same position. Distanzhalter

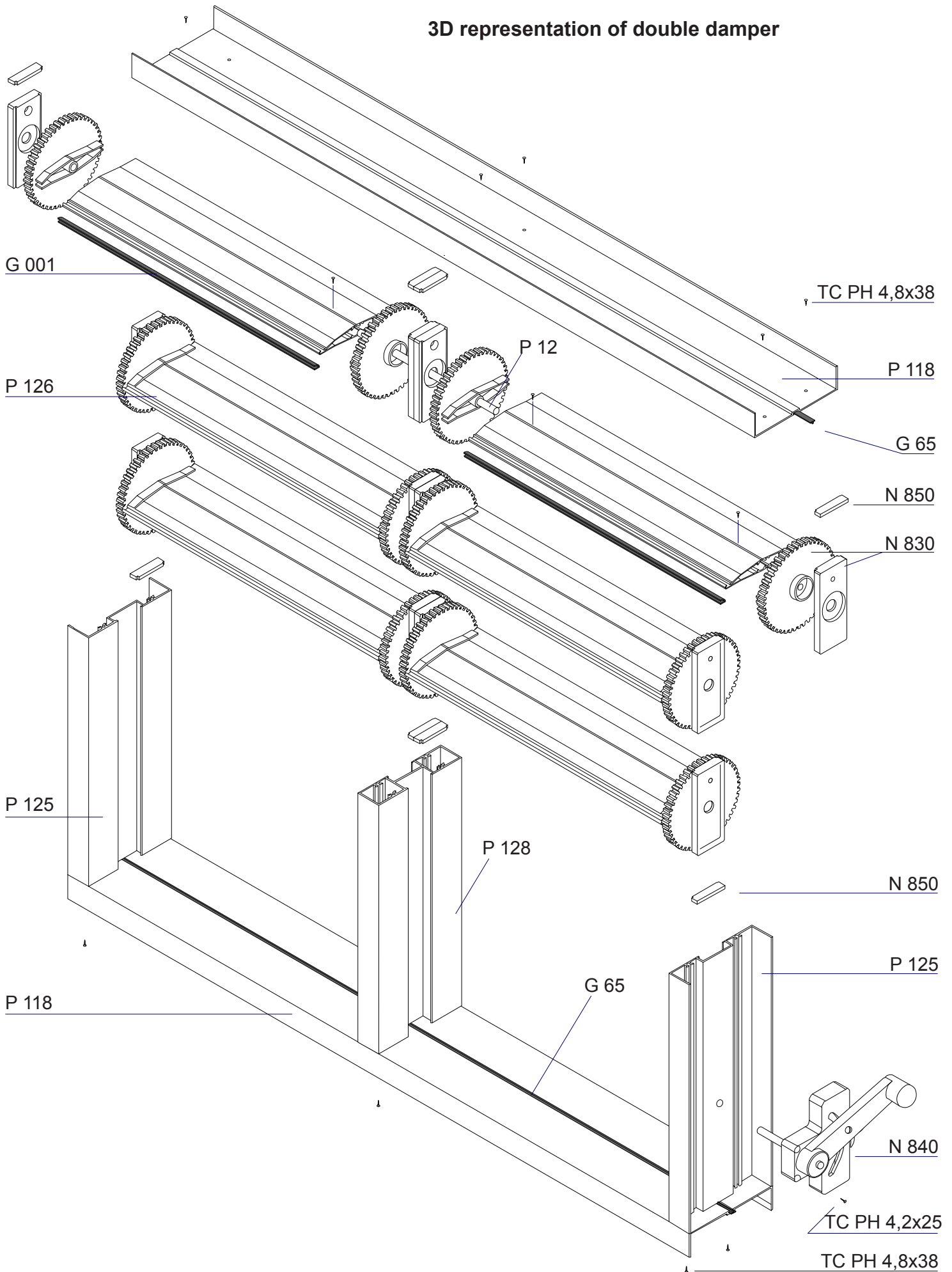


12

- 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**.



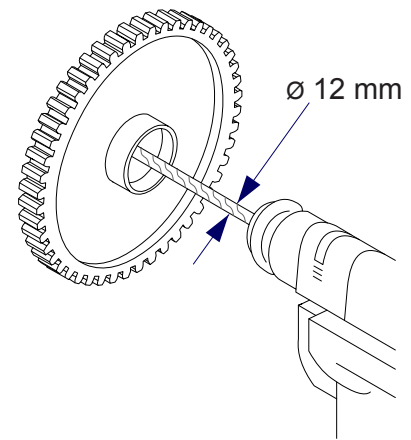
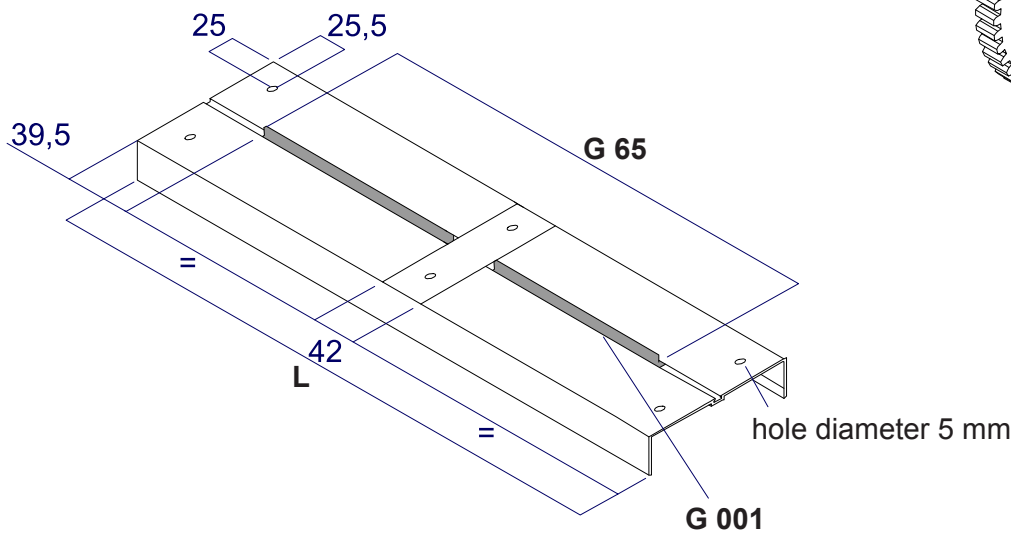
3D representation of double damper



Components for double damper / Instructions for assembly

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

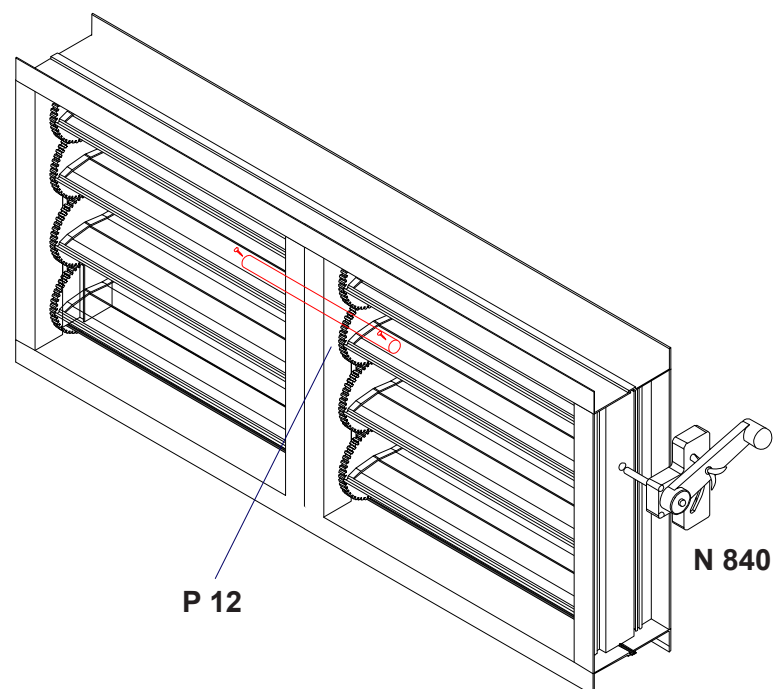
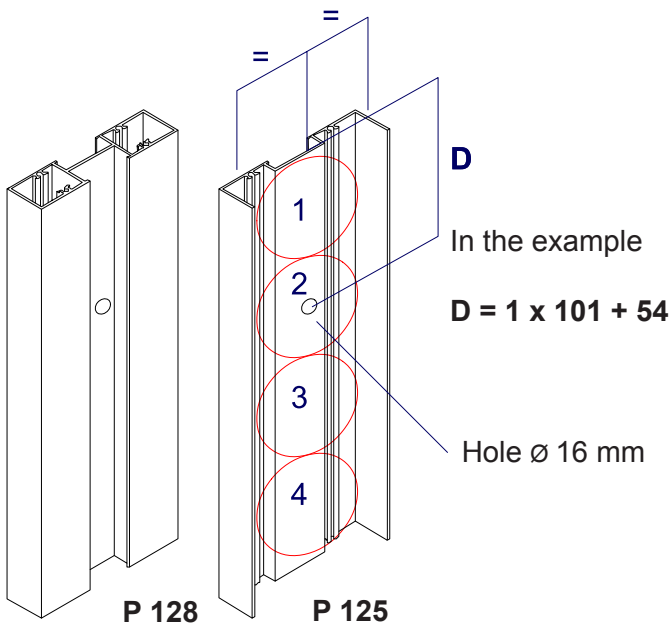
5 Drill 1 hole \varnothing 12 mm. in the 3 gears.



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

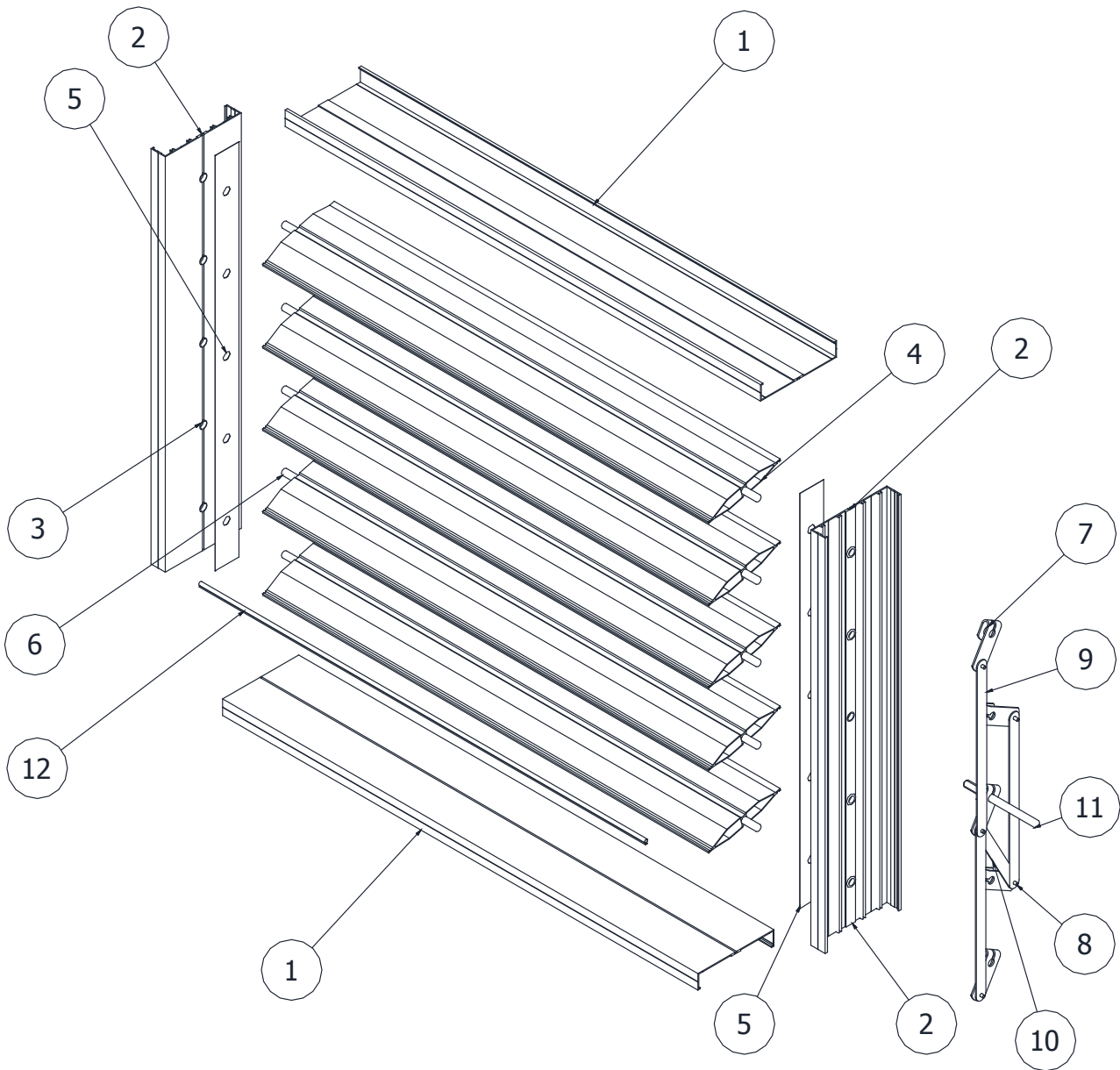


NOTE: It is advisable to keep the control mechanism as central as possible.

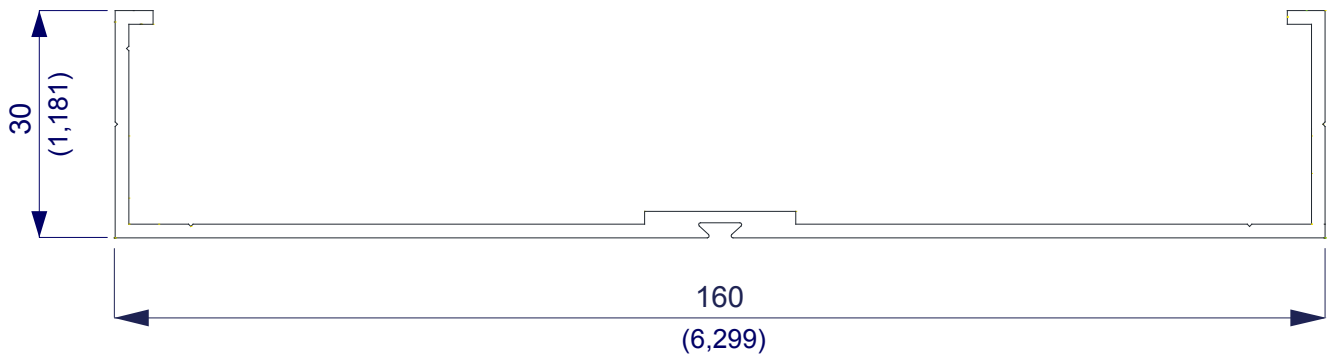
WEIGHT TABLE

H1	/P125	Single damper																Double damper								N830	N830	N830	L1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		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	5.16	5.34					5.52	5.70	5.88	6.06	6.24	6.42	6.60	6.78	6.96	7.14	7.32	7.50	7.68	7.86	8.04	8.22	8.40																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
210	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	5.16	5.34	5.52	5.70	5.88	6.06	6.24	6.42	6.60	6.78	6.96	7.14	7.32	7.50	7.68	7.86	8.04	8.22	8.40	8.58	8.76	8.94	9.12	9.30	9.48	9.66	9.84	10.02	10.20	10.38	10.56	10.74	10.92	11.10	11.28	11.46	11.64	11.82	12.00	12.18	12.36	12.54	12.72	12.90	13.08	13.26	13.44	13.62	13.80	13.98	14.16	14.34	14.52	14.70	14.88	15.06	15.24	15.42	15.60	15.78	15.96	16.14	16.32	16.50	16.68	16.86	17.04	17.22	17.40	17.58	17.76	17.94	18.12	18.30	18.48	18.66	18.84	19.02	19.20	19.38	19.56	19.74	19.92	20.10	20.28	20.46	20.64	20.82	21.00	21.18	21.36	21.54	21.72	21.90	22.08	22.26	22.44	22.62	22.80	22.98	23.16	23.34	23.52	23.70	23.88	24.06	24.24	24.42	24.60	24.78	24.96	25.14	25.32	25.50	25.68	25.86	26.04	26.22	26.40	26.58	26.76	26.94	27.12	27.30	27.48	27.66	27.84	28.02	28.20	28.38	28.56	28.74	28.92	29.10	29.28	29.46	29.64	29.82	30.00	30.18	30.36	30.54	30.72	30.90	31.08	31.26	31.44	31.62	31.80	31.98	32.16	32.34	32.52	32.70	32.88	33.06	33.24	33.42	33.60	33.78	33.96	34.14	34.32	34.50	34.68	34.86	35.04	35.22	35.40	35.58	35.76	35.94	36.12	36.30	36.48	36.66	36.84	37.02	37.20	37.38	37.56	37.74	37.92	38.10	38.28	38.46	38.64	38.82	39.00	39.18	39.36	39.54	39.72	39.90	40.08	40.26	40.44	40.62	40.80	40.98	41.16	41.34	41.52	41.70	41.88	42.06	42.24	42.42	42.60	42.78	42.96	43.14	43.32	43.50	43.68	43.86	44.04	44.22	44.40	44.58	44.76	44.94	45.12	45.30	45.48	45.66	45.84	46.02	46.20	46.38	46.56	46.74	46.92	47.10	47.28	47.46	47.64	47.82	48.00	48.18	48.36	48.54	48.72	48.90	49.08	49.26	49.44	49.62	49.80	49.98	50.16	50.34	50.52	50.70	50.88	51.06	51.24	51.42	51.60	51.78	51.96	52.14	52.32	52.50	52.68	52.86	53.04	53.22	53.40	53.58	53.76	53.94	54.12	54.30	54.48	54.66	54.84	55.02	55.20	55.38	55.56	55.74	55.92	56.10	56.28	56.46	56.64	56.82	57.00	57.18	57.36	57.54	57.72	57.90	58.08	58.26	58.44	58.62	58.80	58.98	59.16	59.34	59.52	59.70	59.88	60.06	60.24	60.42	60.60	60.78	60.96	61.14	61.32	61.50	61.68	61.86	62.04	62.22	62.40	62.58	62.76	62.94	63.12	63.30	63.48	63.66	63.84	64.02	64.20	64.38	64.56	64.74	64.92	65.10	65.28	65.46	65.64	65.82	66.00	66.18	66.36	66.54	66.72	66.90	67.08	67.26	67.44	67.62	67.80	67.98	68.16	68.34	68.52	68.70	68.88	69.06	69.24	69.42	69.60	69.78	69.96	70.14	70.32	70.50	70.68	70.86	71.04	71.22	71.40	71.58	71.76	71.94	72.12	72.30	72.48	72.66	72.84	73.02	73.20	73.38	73.56	73.74	73.92	74.10	74.28	74.46	74.64	74.82	75.00	75.18	75.36	75.54	75.72	75.90	76.08	76.26	76.44	76.62	76.80	76.98	77.16	77.34	77.52	77.70	77.88	78.06	78.24	78.42	78.60	78.78	78.96	79.14	79.32	79.50	79.68	79.86	80.04	80.22	80.40	80.58	80.76	80.94	81.12	81.30	81.48	81.66	81.84	82.02	82.20	82.38	82.56	82.74	82.92	83.10	83.28	83.46	83.64	83.82	84.00	84.18	84.36	84.54	84.72	84.90	85.08	85.26	85.44	85.62	85.80	85.98	86.16	86.34	86.52	86.70	86.88	87.06	87.24	87.42	87.60	87.78	87.96	88.14	88.32	88.50	88.68	88.86	89.04	89.22	89.40	89.58	89.76	89.94	90.12	90.30	90.48	90.66	90.84	91.02	91.20	91.38	91.56	91.74	91.92	92.10	92.28	92.46	92.64	92.82	93.00	93.18	93.36	93.54	93.72	93.90	94.08	94.26	94.44	94.62	94.80	94.98	95.16	95.34	95.52	95.70	95.88	96.06	96.24	96.42	96.60	96.78	96.96	97.14	97.32	97.50	97.68	97.86	98.04	98.22	98.40	98.58	98.76	98.94	99.12	99.30	99.48	99.66	99.84	100.02	100.20	100.38	100.56	100.74	100.92	101.10	101.28	101.46	101.64	101.82	102.00	102.18	102.36	102.54	102.72	102.90	103.08	103.26	103.44	103.62	103.80	103.98	104.16	104.34	104.52	104.70	104.88	105.06	105.24	105.42	105.60	105.78	105.96	106.14	106.32	106.50	106.68	106.86	107.04	107.22	107.40	107.58	107.76	107.94	108.12	108.30	108.48	108.66	108.84	109.02	109.20	109.38	109.56	109.74	109.92	110.10	110.28	110.46	110.64	110.82	111.00	111.18	111.36	111.54	111.72	111.90	112.08	112.26	112.44	112.62	112.80	112.98	113.16	113.34	113.52	113.70	113.88	114.06	114.24	114.42	114.60	114.78	114.96	115.14	115.32	115.50	115.68	115.86	116.04	116.22	116.40	116.58	116.76	116.94	117.12	117.30	117.48	117.66	117.84	118.02	118.20	118.38	118.56	118.74	118.92	119.10	119.28	119.46	119.64	119.82	120.00	120.18	120.36	120.54	120.72	120.90	121.08	121.26	121.44	121.62	121.80	121.98	122.16	122.34	122.52	122.70	122.88	123.06	123.24	123.42	123.60	123.78	123.96	124.14	124.32	124.50	124.68	124.86	125.04	125.22	125.40	125.58	125.76	125.94	126.12	126.30	126.48	126.66	126.84	127.02	127.20	127.38	127.56	127.74	127.92	128.10	128.28	128.46	128.64	128.82	129.00	129.18	129.36	129.54	129.72	129.90	130.08	130.26	130.44	130.62	130.80	130.98	131.16	131.34	131.52	131.70	131.88	132.06	132.24	132.42	132.60	132.78	132.96	133.14	133.32	133.50	133.68	133.86	134.04	134.22	134.40	134.58	134.76	134.94	135.12	135.30	135.48	135.66	135.84	136.02	136.20	136.38	136.56	136.74	136.92	137.10	137.28	137.46	137.64	137.82	138.00	138.18	138.36	138.54	138.72	138.90	139.08	139.26	139.44	139.62	139.80	139.98	140.16	140.34	140.52	140.70	140.88	141.06	141.24	141.42	141.60	141.78	141.96	142.14	142.32	142.50	142.68	142.86	143.04	143.22	143.40	143.58	143.76	143.94	144.12	144.30	144.48	144.66	144.84	145.02	145.20	145.38	145.56	145.74	145.92	146.10	146.28	146.46	146.64	146.82	147.00	147.18	147.36	147.54	147.72	147.90	148.08	148.26	148.44	148.62	148.80	148.98	149.16	149.34	149.52	149.70	149.88	150.06	150.24	150.42	150.60	150.78	150.96	151.14	151.32	151.50	151.68	151.86	152.04	152.22	152.40	152.58	152.76	152.94	153.12	153.30	153.48	153.66	153.84	154.02	154.20	154.38	154.56	154.74	154.92	155.10	155.28	155.46	155.64	155.82	156.00	156.18	156.36	156.54	156.72	156.90	157.08	157.26	157.44	157.62	157.80	157.98	158.16	158.34	158.52	158.70	158.88	159.06	159.24	159.42	159.60	159.78	159.96	160.14	160.32	160.50	160.68	160.86	161.04	161.22	161.40	161.58	161.76	161.94	162.12	162.30	162.48	162.66	162.84	163.02	163.20	163.38	163.56	163.74	163.92	164.10	164.28	164.46	164.64	164.82	165.00	165.18	165.36	165.54	165.72	165.90	166.08	166.26	166.44	166.62	166.80	166.98	167.16	167.34	167.52	167.70	167.88	168.06	168.24	168.42	168.60	168.78	168.96	169.14	169.32	169.50	169.68	169.86	170.04	170.22	170.40	170.58	170.76	170.94	171.12	171.30	171.48	171.66	171.84	172.02	172.20	172.38	172.56	172.74	172.92	173.10	173.28	173.46	173.64	173.82	174.00	174.18	174.36	174.54	174.72	174.90	175.08	175.26	175.44	175.62	175.80	175.98	176.16	176.34	176.52	176.70	176.88	177.06	177.24	177.42	177.60	177.78	177.96	178.14	178.32	178.50	178.68	178.86	179.04	179.22	179.40	179.58	179.76	179.94	180.12	180.30	180.48	180.66	180.84	181.02	181.20	181.38	181.56	181.74	181.92	182.10	182.28	182.46	182.64	182.82	183.00	183.18	183.36	183.54	183.72	183.90	184.08	184.26	184.44	184.62	184.80	184.98	185.16	185.34	185.52	185.70	185.88	186.06	186.24	186.42	186.60	186.78	186.96	187.14	187.32	187.50	187.68	187.86	188.04	188.22	188.40	188.58	188.76	188.94	189.12	189.30	189.48	189.66	189.84	189.98	190.16	190.34	190.52	190.70	190.88	191.06	191.24	191.42	191.60	191.78	191.96	192.14	192.32	192.50	192.68	192.86	193.04	193.22	193.40	193.58	193.76	193.94	194.12	194.30	194.48	194.66	194.84	195.02	195.20	195.38	195.56	195.74	195.92	196.10	196.28	196.46	196.64	196.82	197.00	197.18	197.36	197.54	197.72	197.90	198.08	198.26	198.44	198.62	198.80	198.98	199.16	199.34	199

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

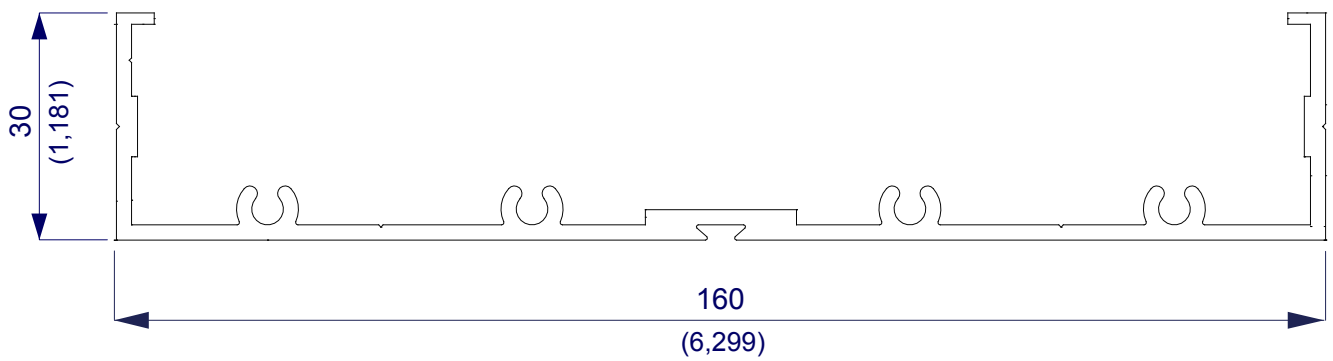


PD 2001

Weight kg/m 1,167

(lb/ft 0,784)

Bundle of 2 bars

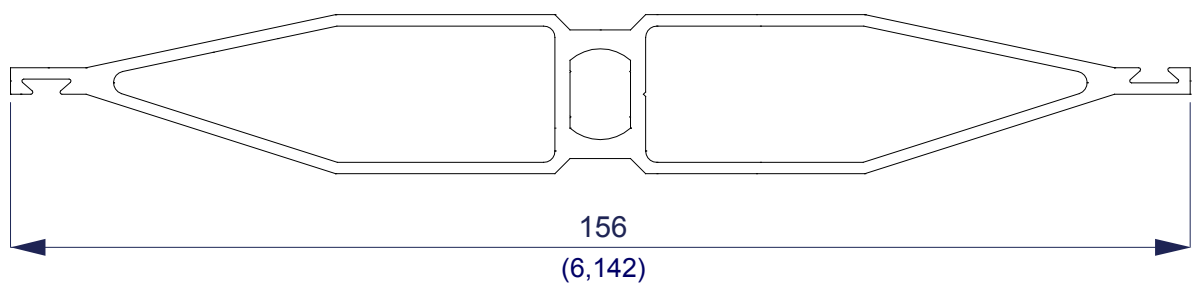


PD 2002

Weight kg/m 1,565

(lb/ft 1,052)

Bundle of 2 bars

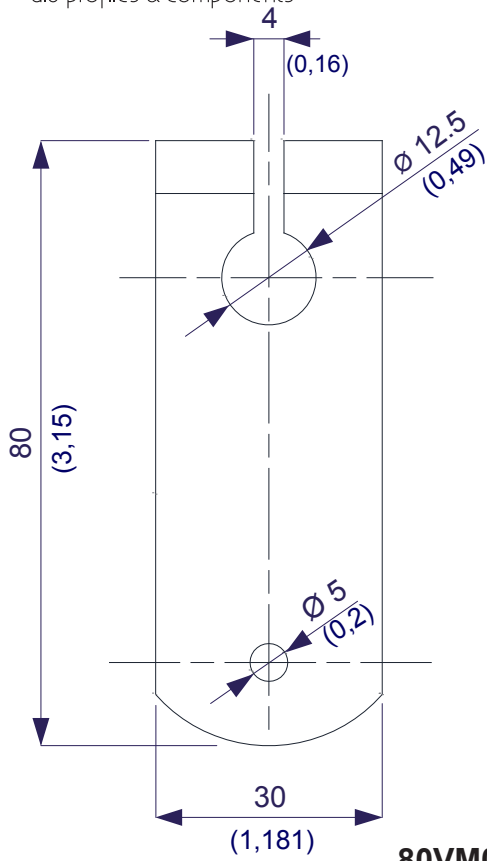


PD 2000

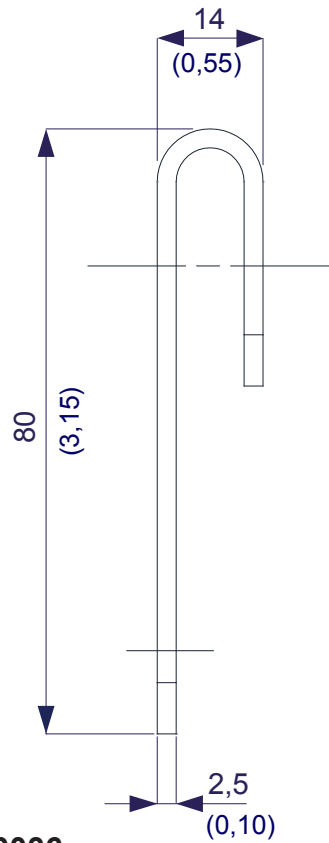
Weight kg/m 1,549

(lb/ft 1,041)

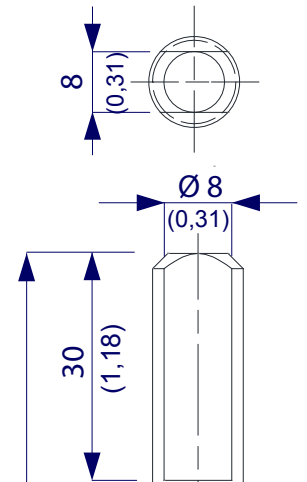
Bundle of 2 bars



80VM000036
Box of 50 pcs.



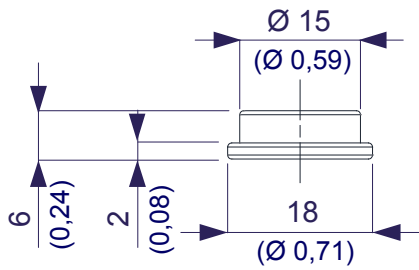
LEVERISM



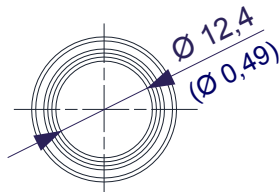
GASKET



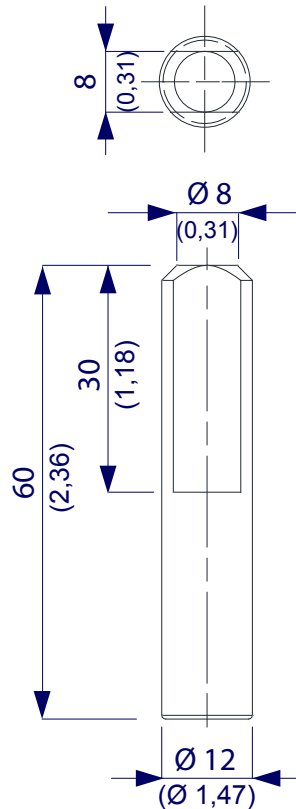
G0014



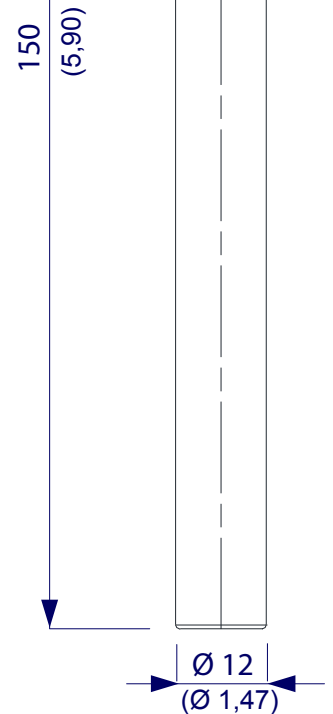
SCALE 2:1



80VM000072
Box of 500 pcs.



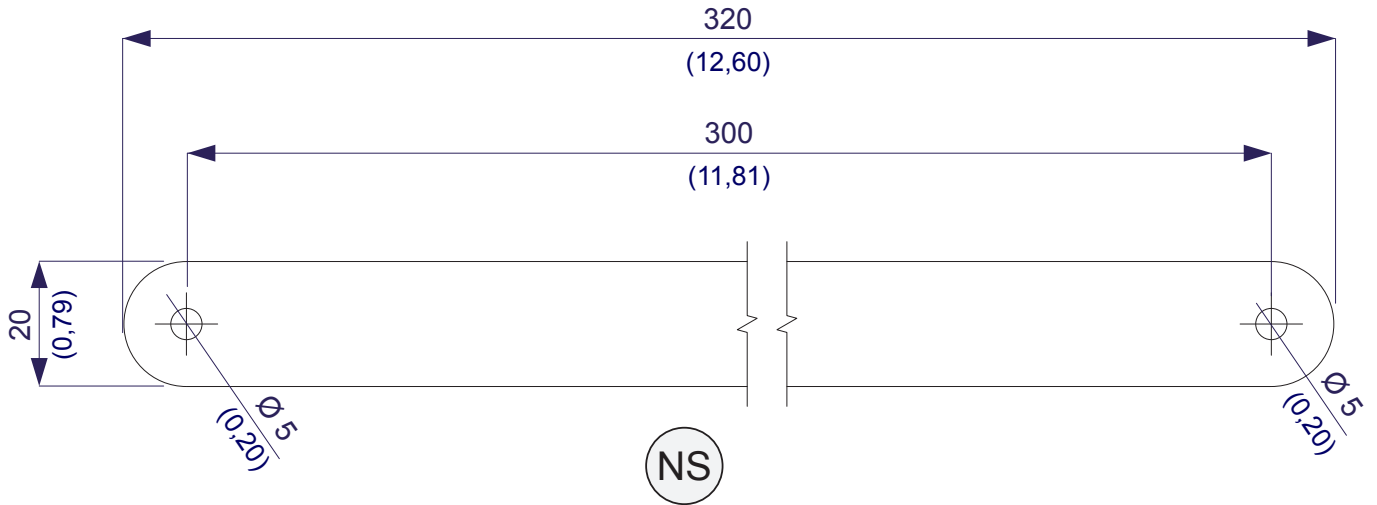
30VM000556
Box of 300 pcs.



30VM000558
Box of 300 pcs.

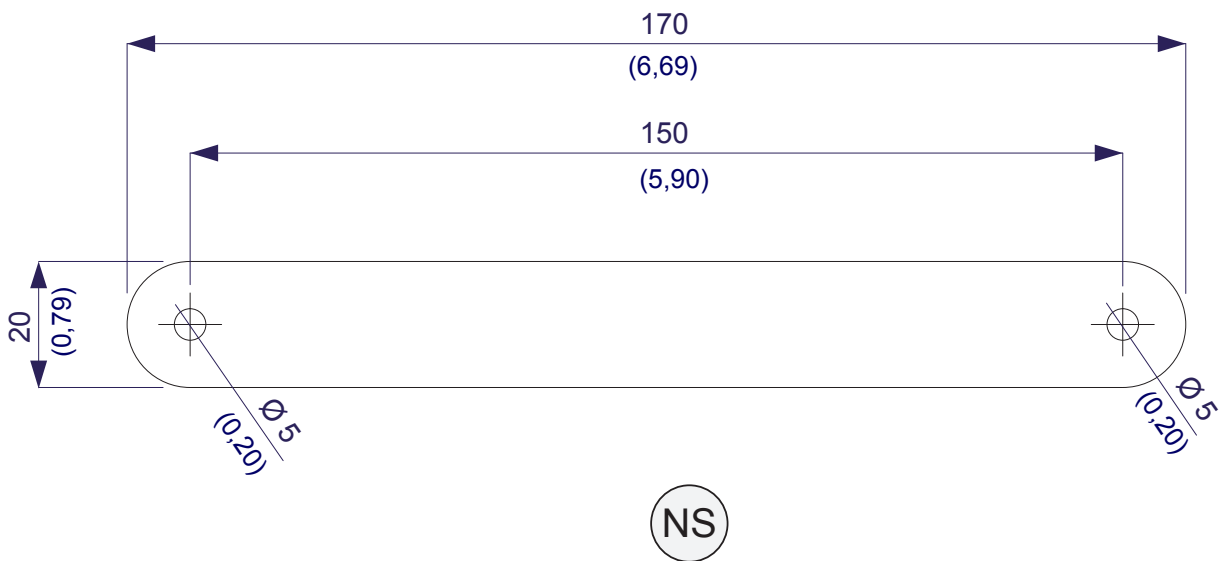
80VM000044

Box of 50 pcs.



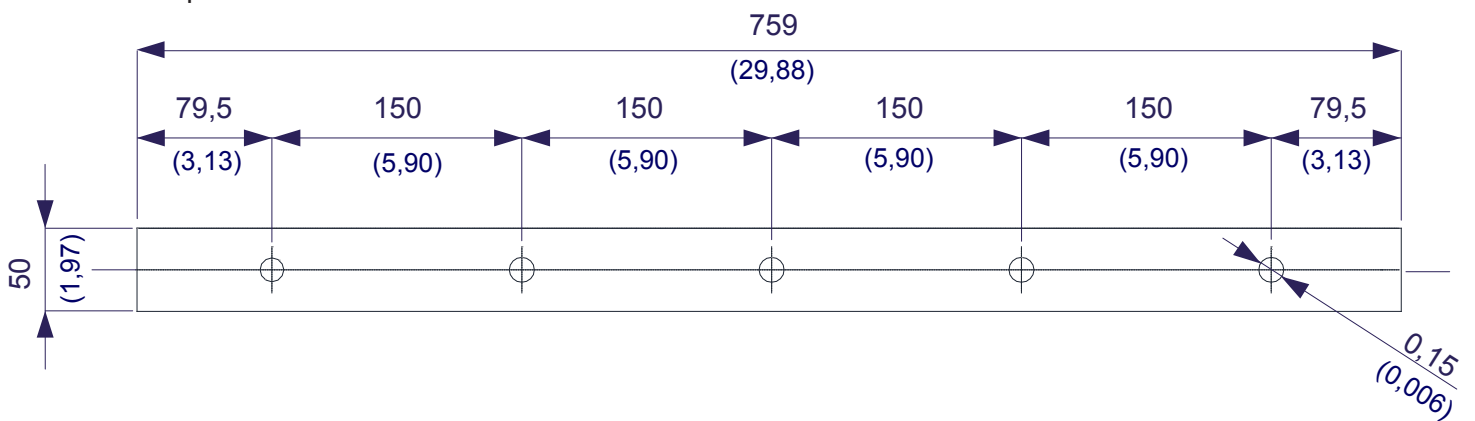
80VM000043

Box of 50 pcs.

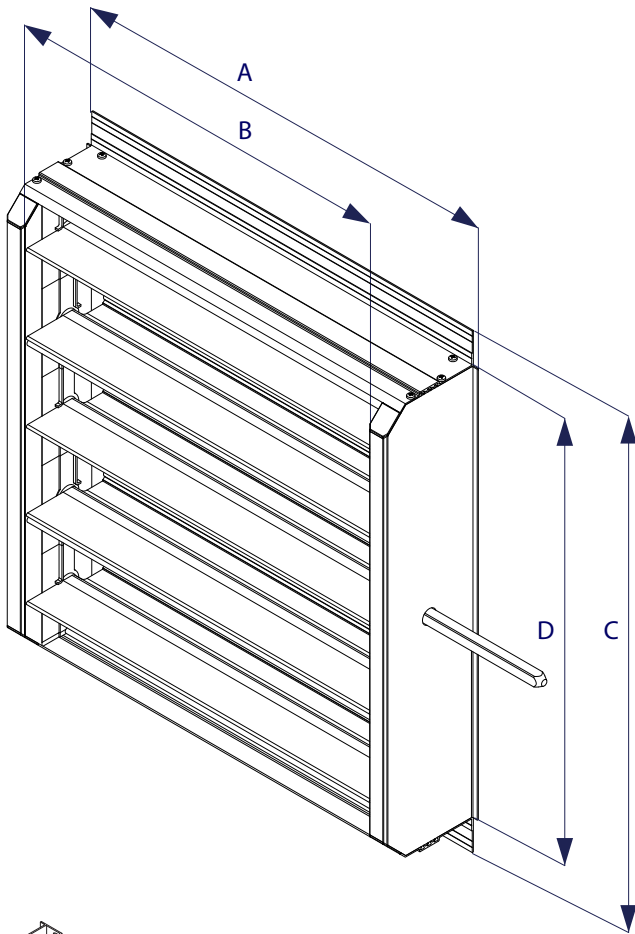


30VM000585

Box of 50 pcs.



3D representation of double damper



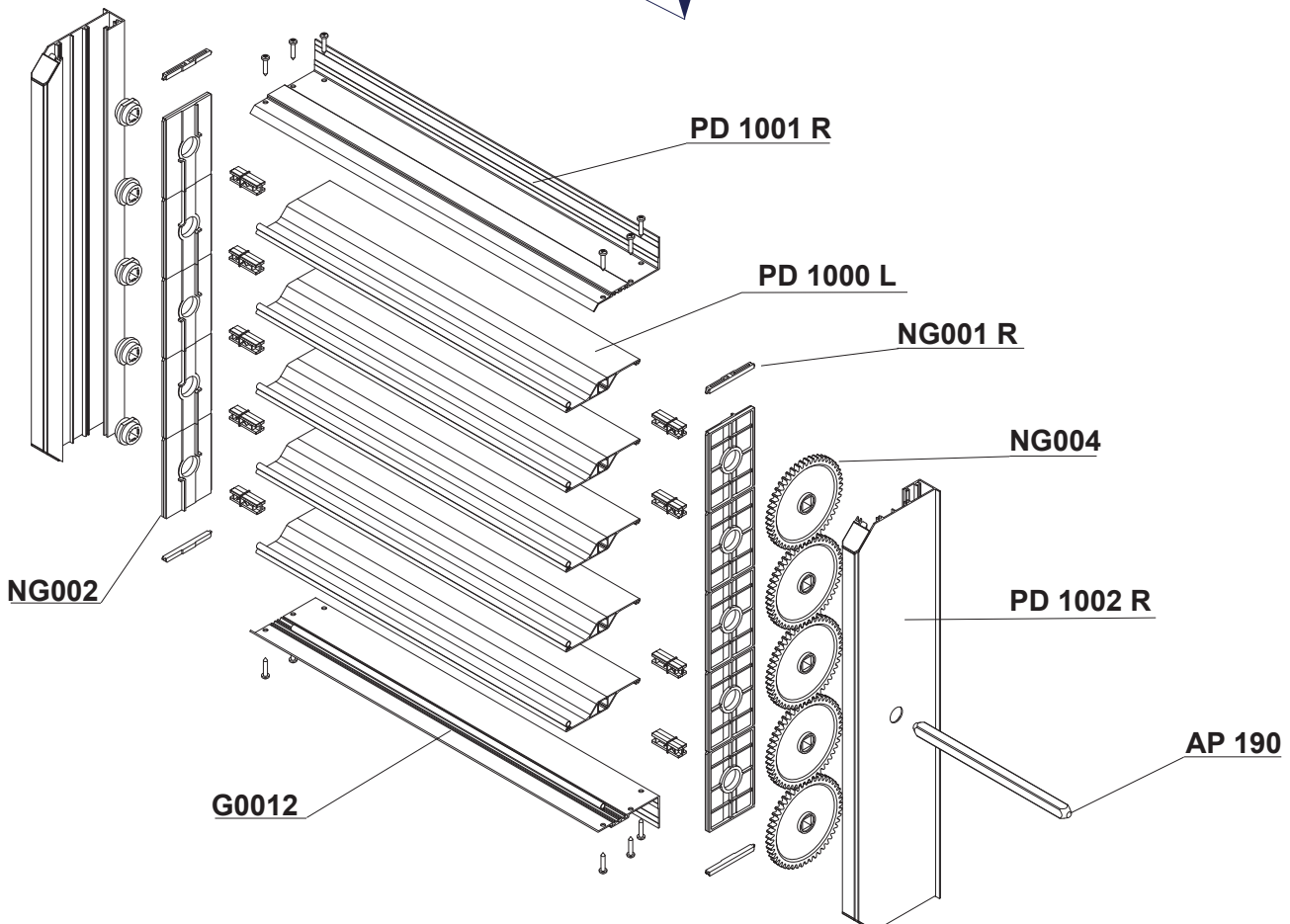
SINGLE DAMPER FORMULA

SINGLE DAMPER
 $A = B - 60 \text{ mm}$
 BLADE length = $B - 3 \text{ mm} / 2 \text{ mm}$
 $C = D - 80 \text{ mm}$
 D = see table below

DIMENSION FOR PROFILE "D"

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

TOLERANCES = ± 1



3D representation of double damper

DOUBLE DAMPER FORMULA

DOUBLE DAMPER

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

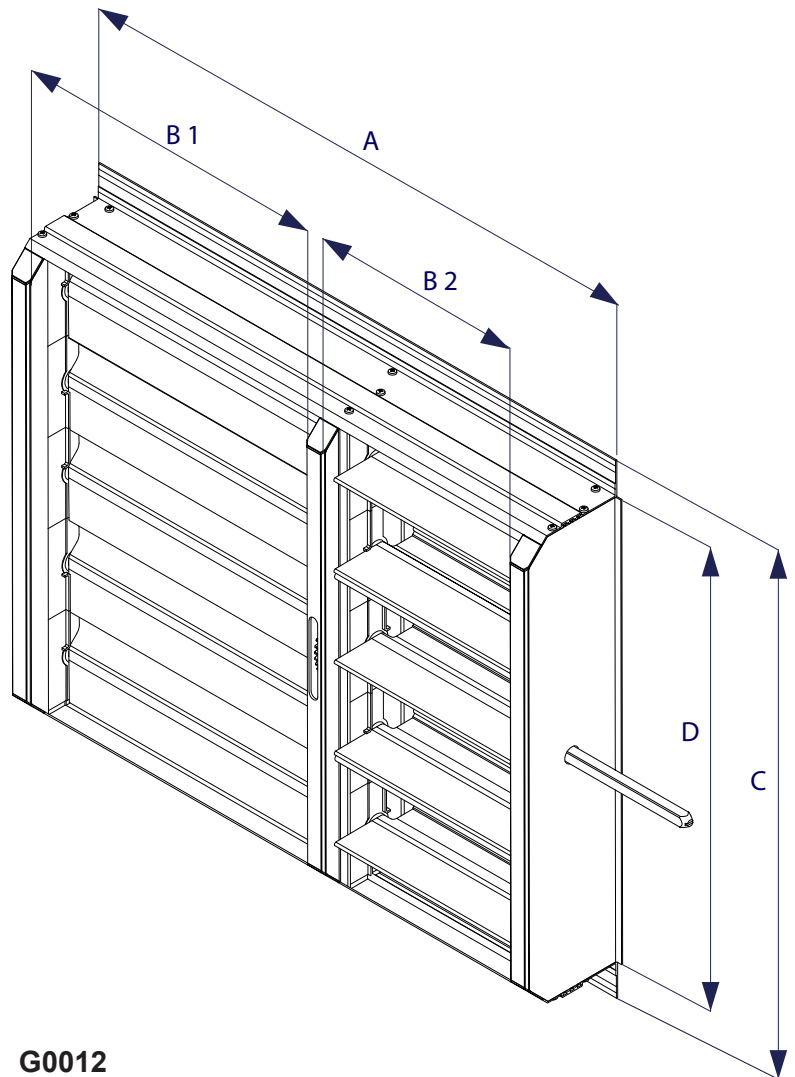
$B1 = B - (B2 + 32.5 \text{ mm})$

$B2 = B - (B1 + 32.5 \text{ mm})$

BLADE length = $B1 - 2 \text{ mm}$
 $B2 - 2 \text{ mm}$

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

D = see table below

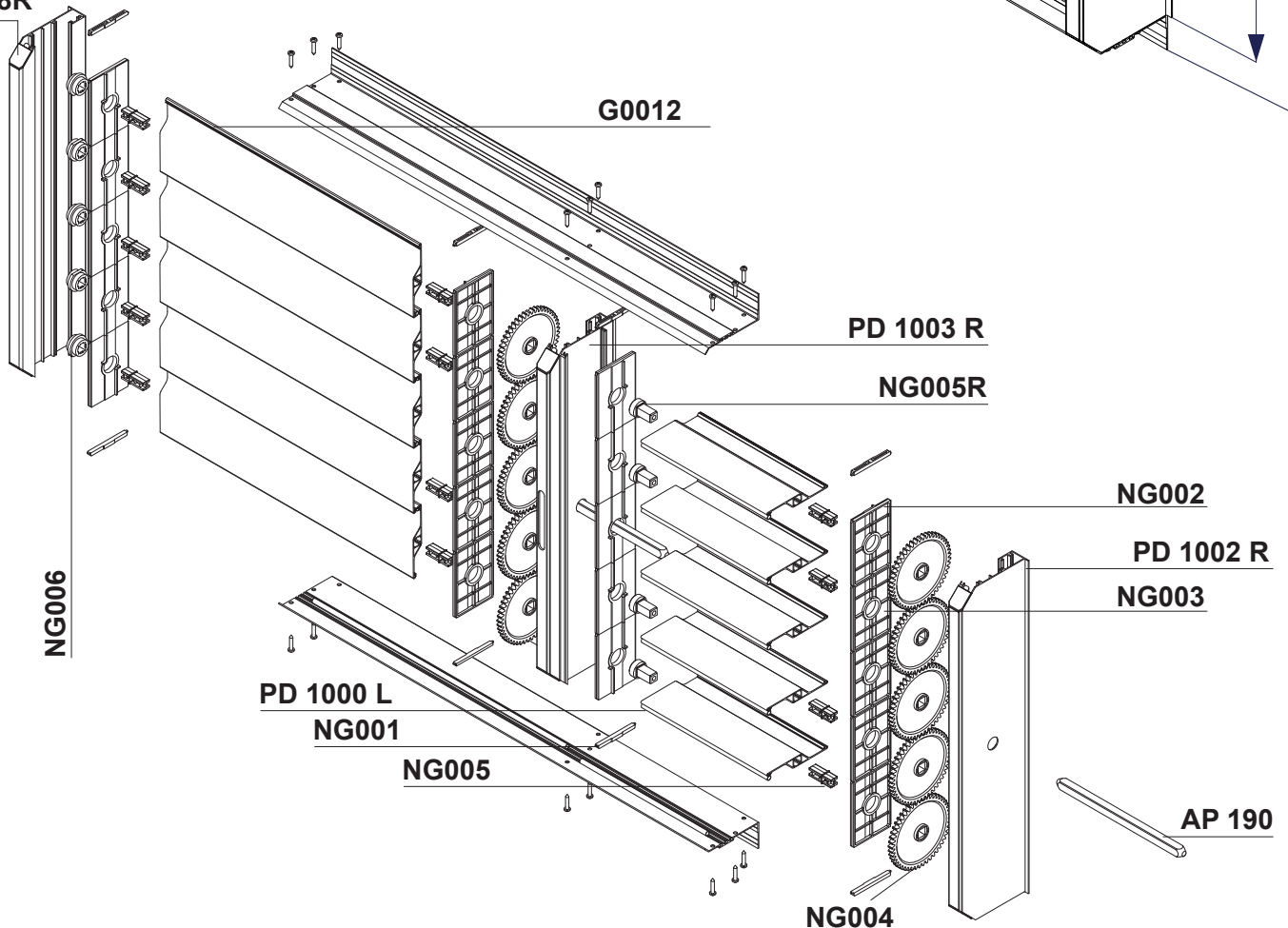


DIMENSION FOR PROFILE "D"

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

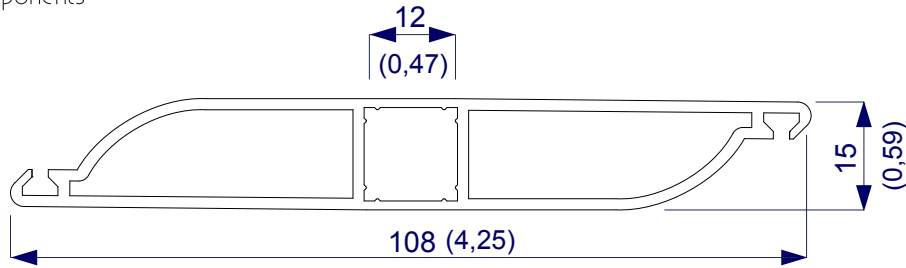
TOLERANCES = ± 1

NG008R



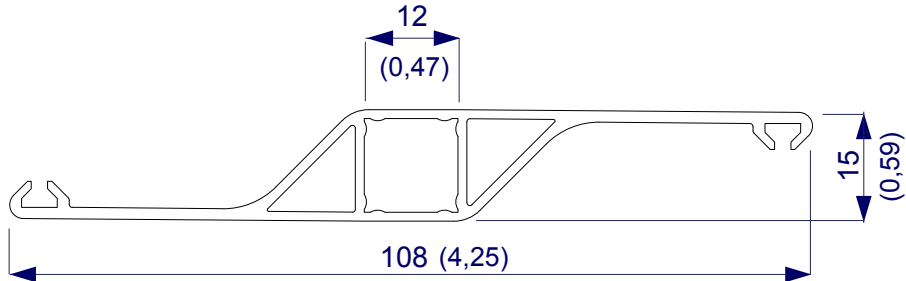
PD 1000

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

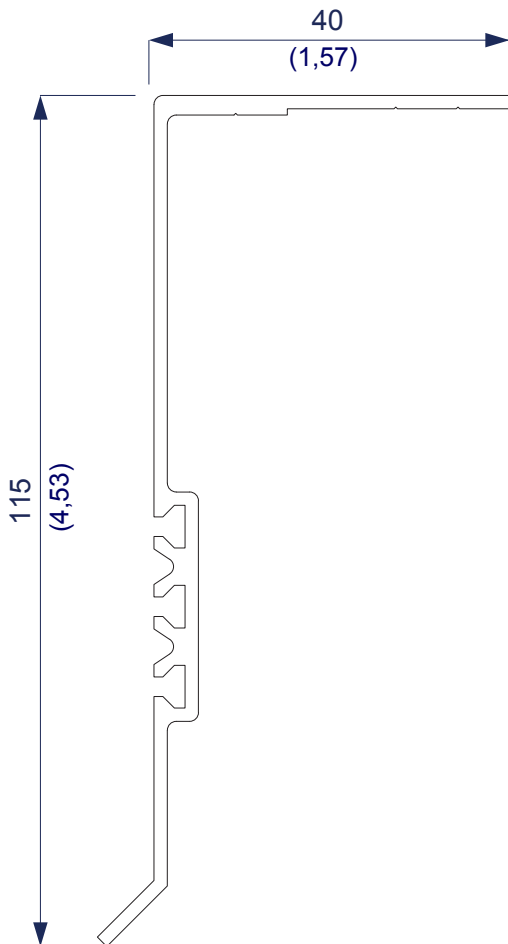
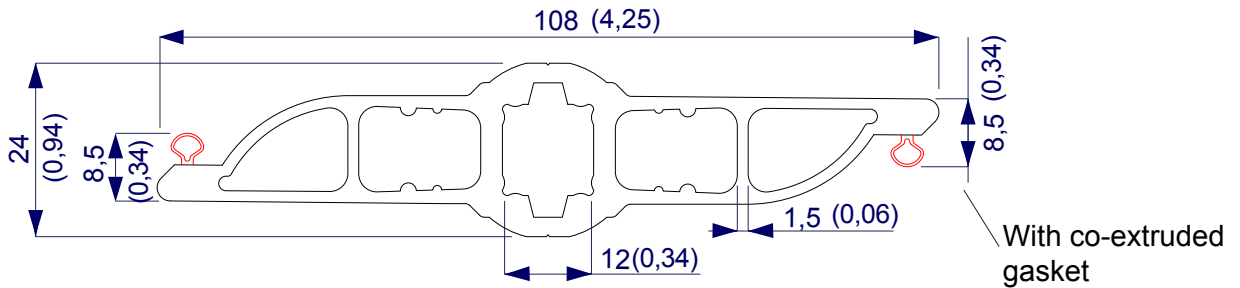


GASKET



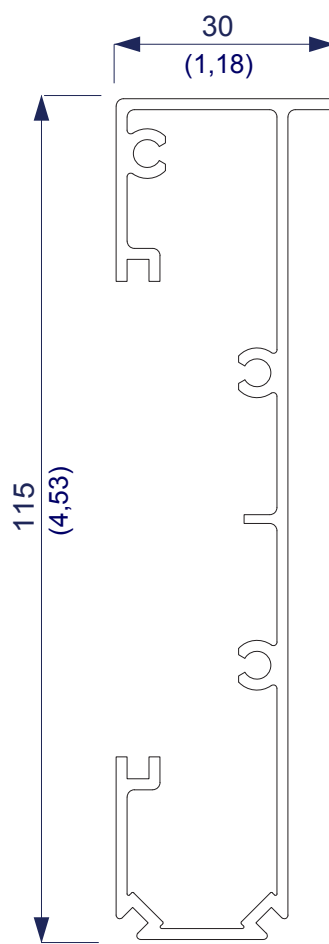
PLA PD 1000 G2

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



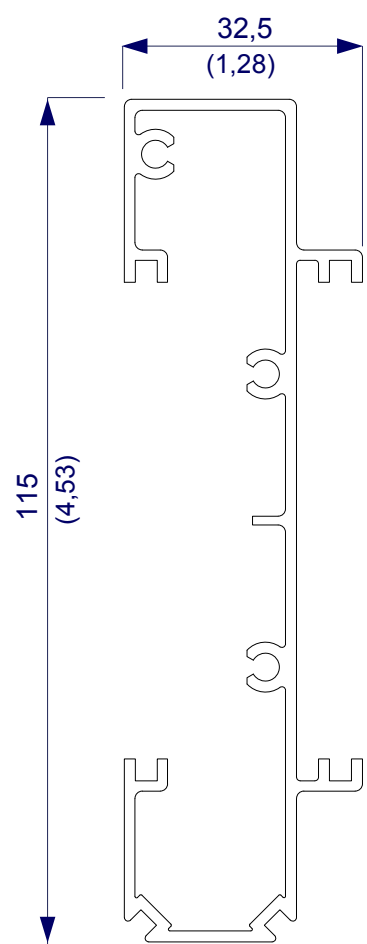
PD 1001 R

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



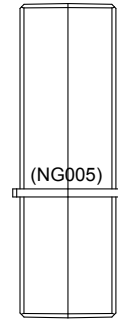
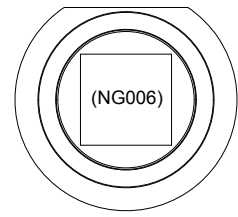
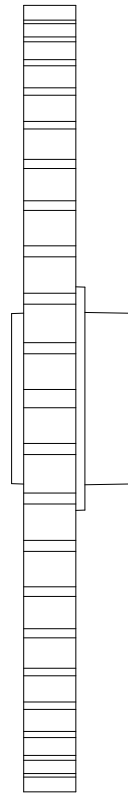
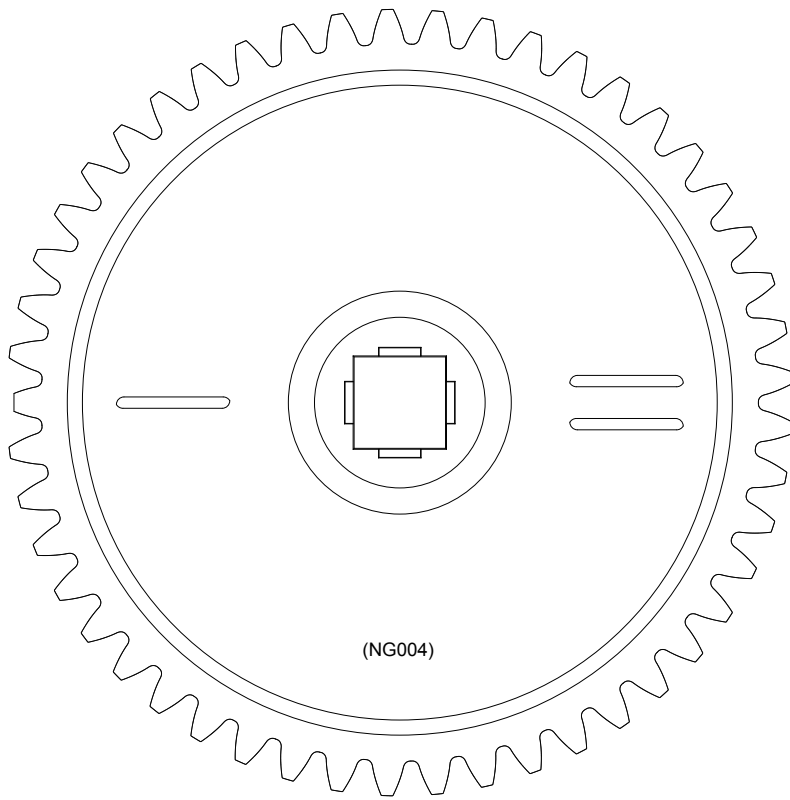
PD 1002 R

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

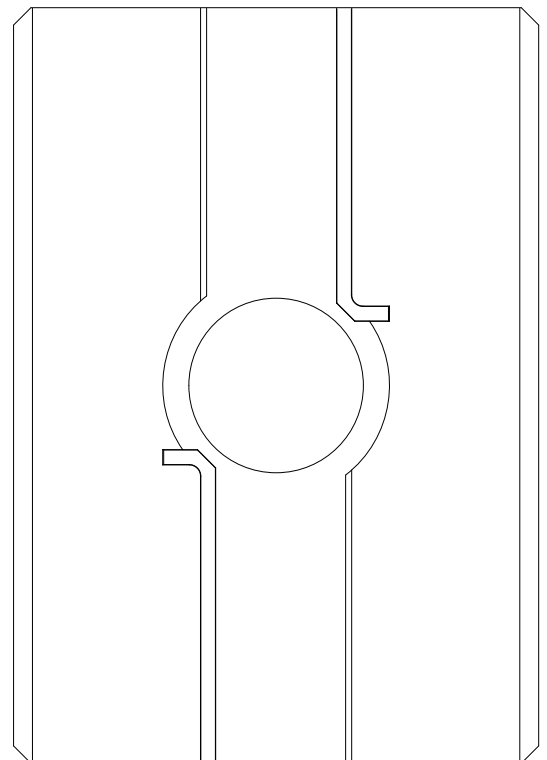
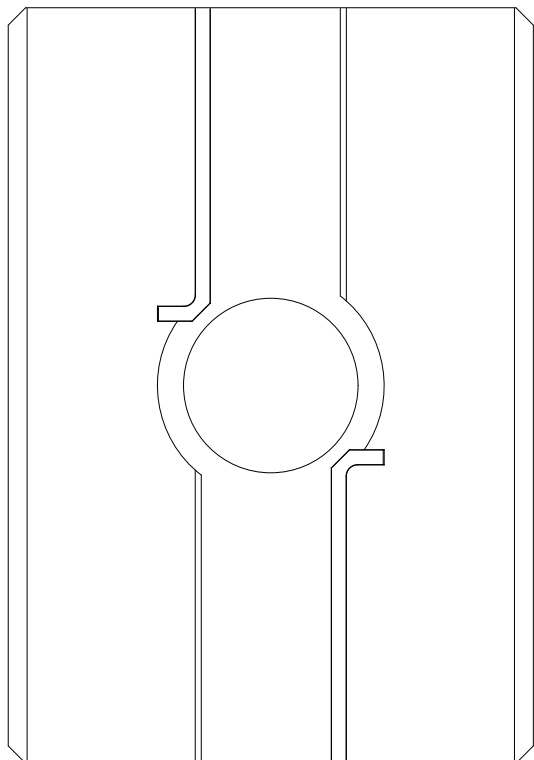
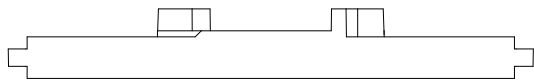
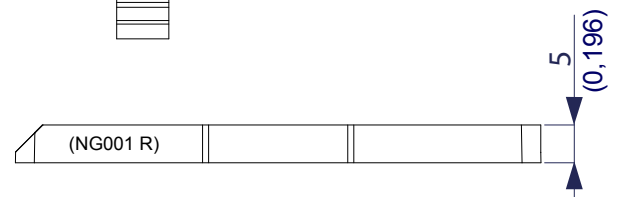


PD 1003 R

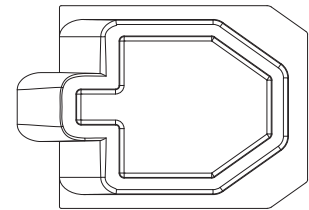
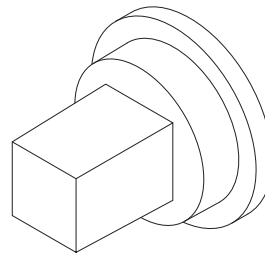
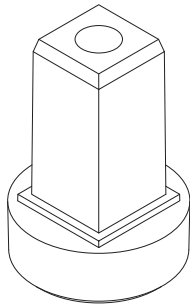
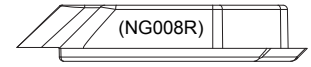
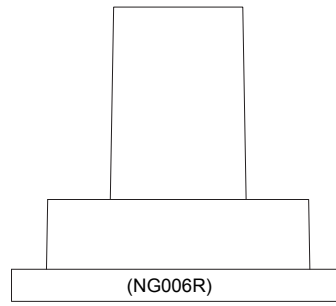
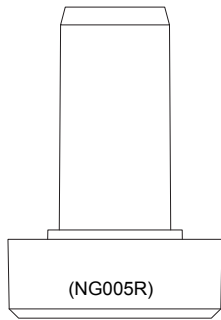
Weight kg/m 1,191
(lb/ft 0,800)
Bundle of 2 bars



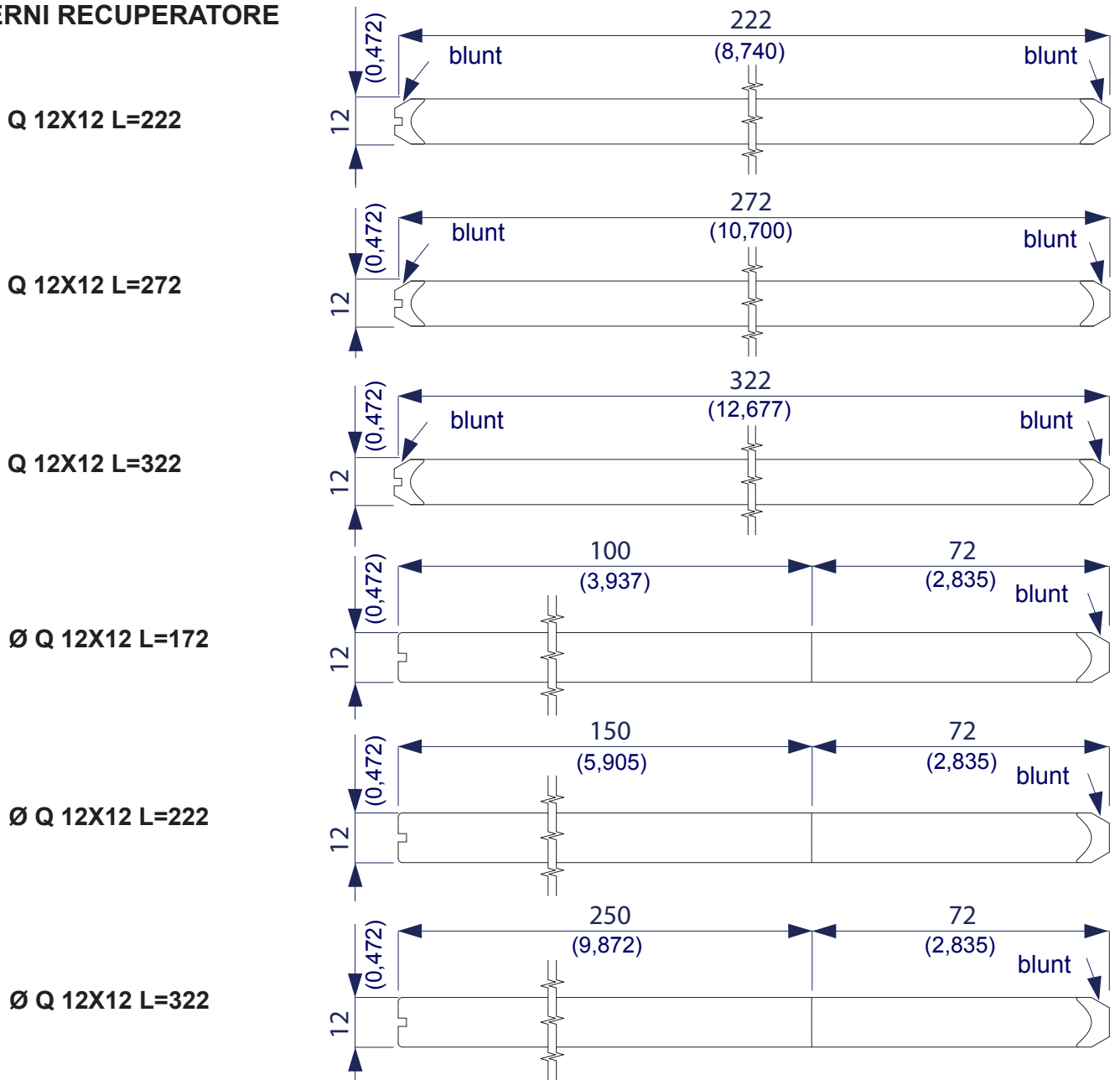
NG100 R
Box of 600 pcs.



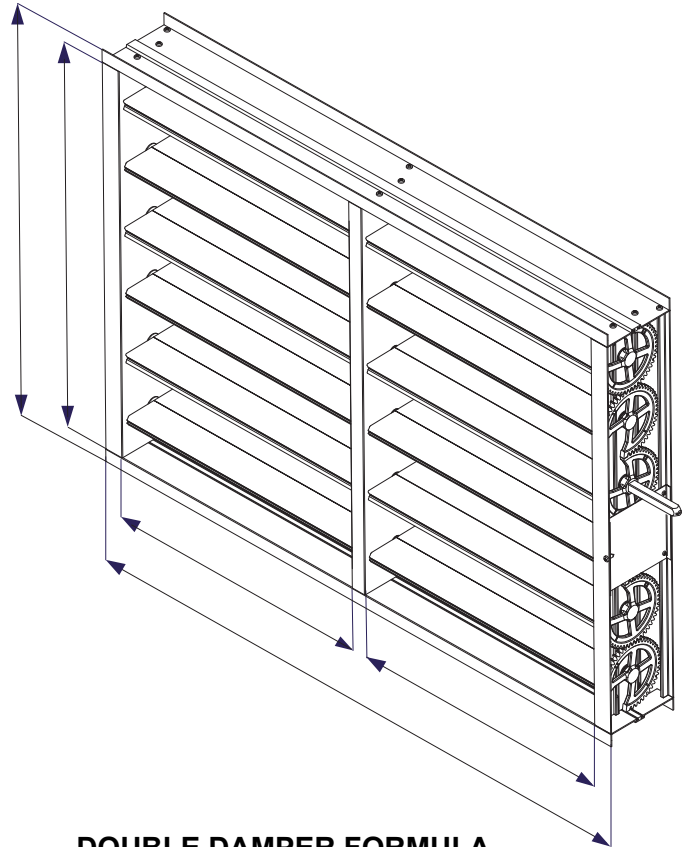
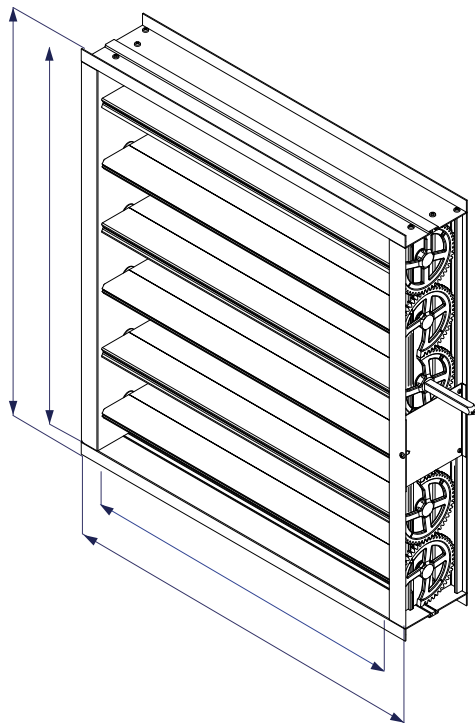
Accessori e perni



PERNI RECUPERATORE



3D representation of double damper

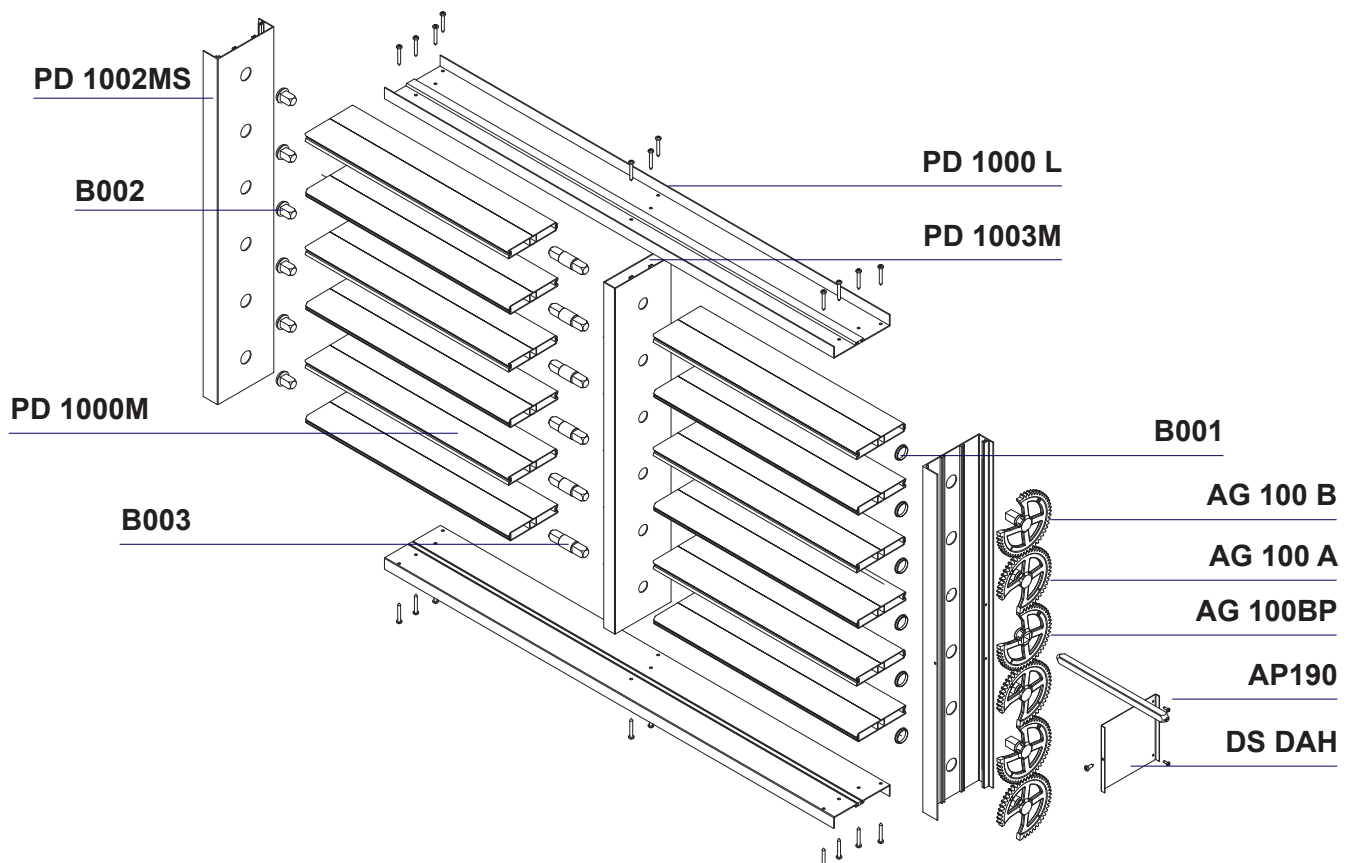


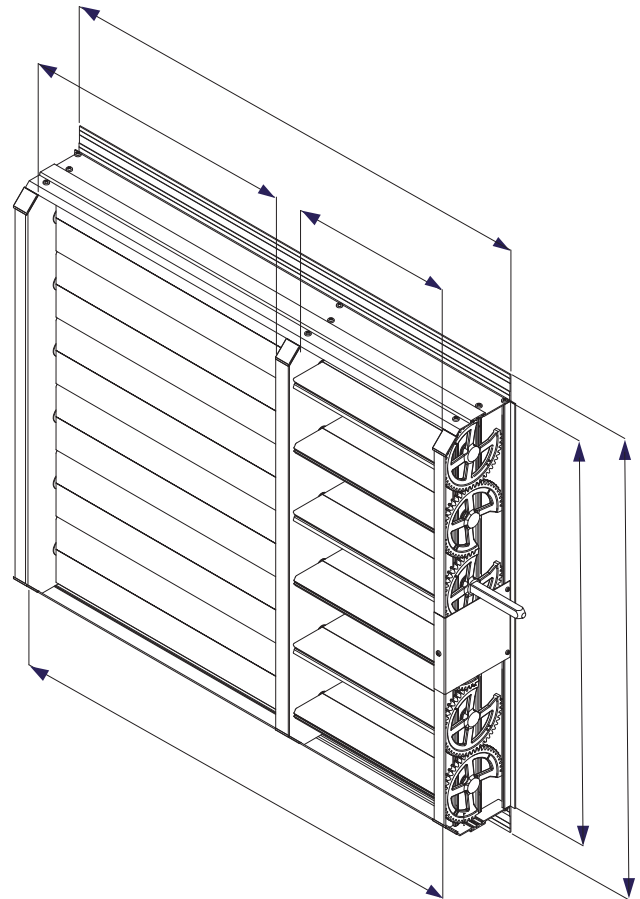
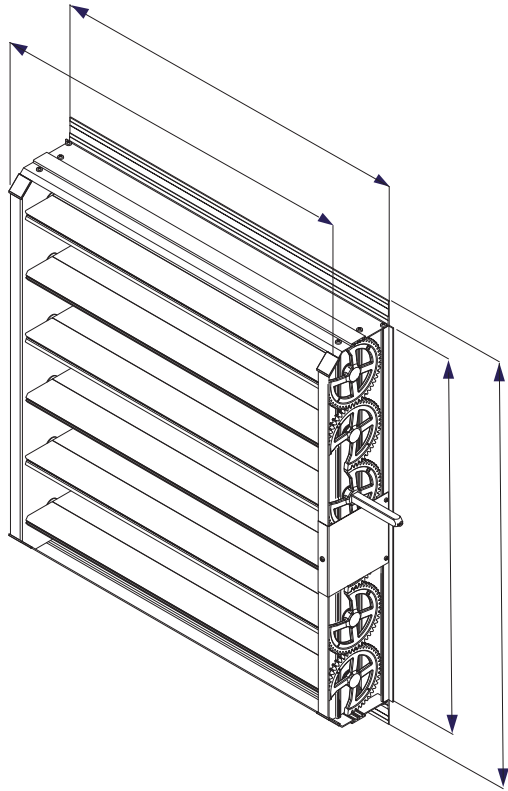
SINGLE DAMPER FORMULA

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

DOUBLE DAMPER FORMULA

DOUBLE DAMPER
 $A = B1 + B2 + 60 \text{ mm} + 23.5 \text{ MM}$
 BLADE length = $B1 \text{ o } (B2) - 2 \text{ mm}$
 $C = D + 40 \text{ mm}$





SINGLE DAMPER FORMULA

RECUPERATOR

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

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

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

“D” SHOULDER PROFILE SIZING

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

DOUBLE DAMPER FORMULA

RECOVERY

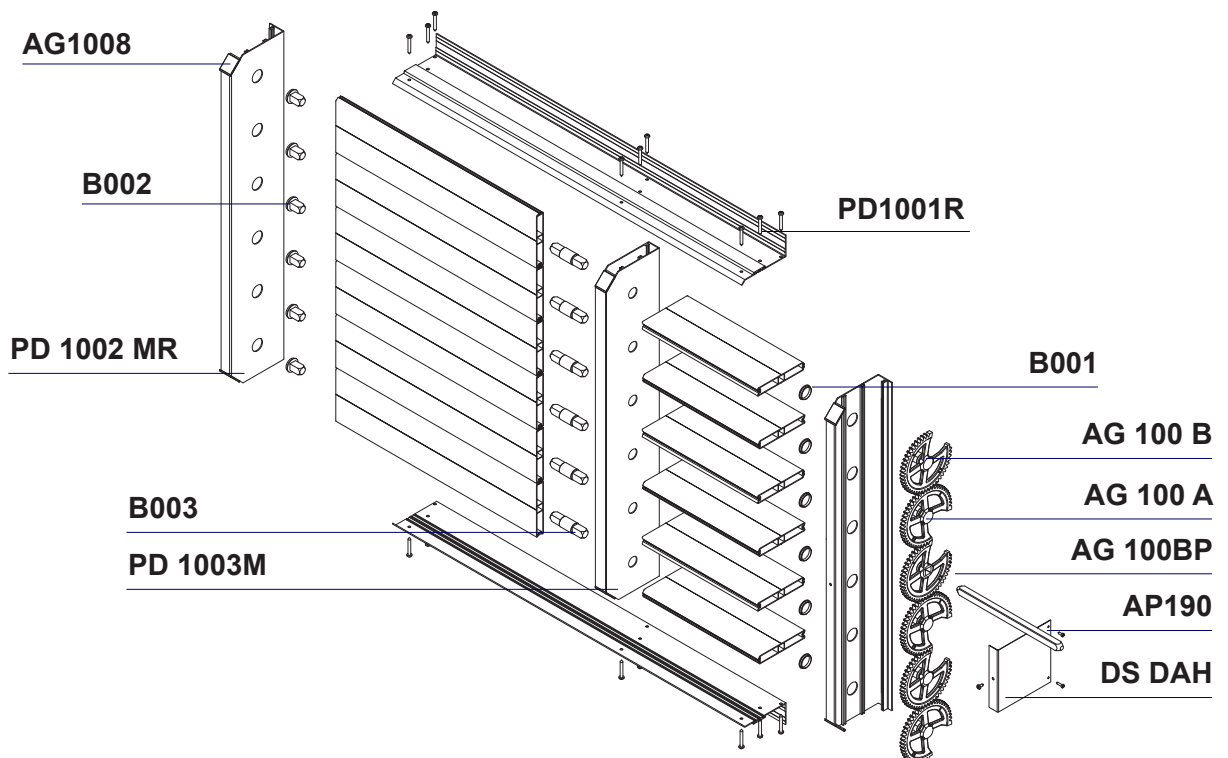
$A = B1 + B2 + 60 \text{ mm} + 23.5 \text{ MM}$

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

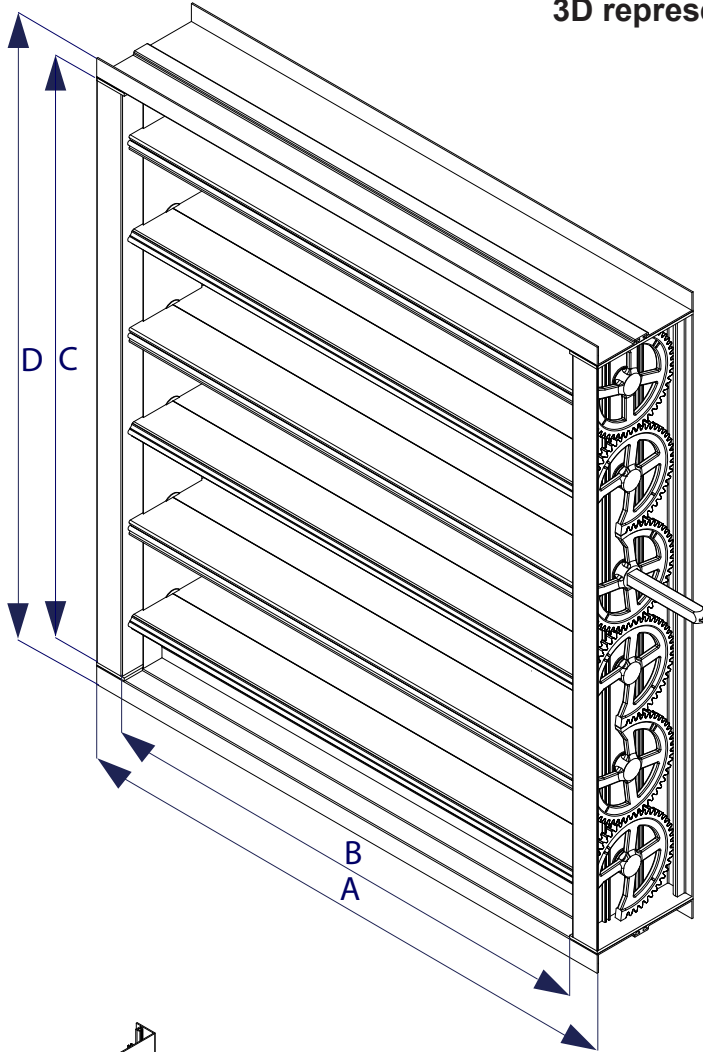
$C = D + 80 \text{ mm}$

“D” SHOULDER PROFILE SIZING

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



3D representation of double damper



FORMULA PITCH

SINGLE DAMPER CLASS 4

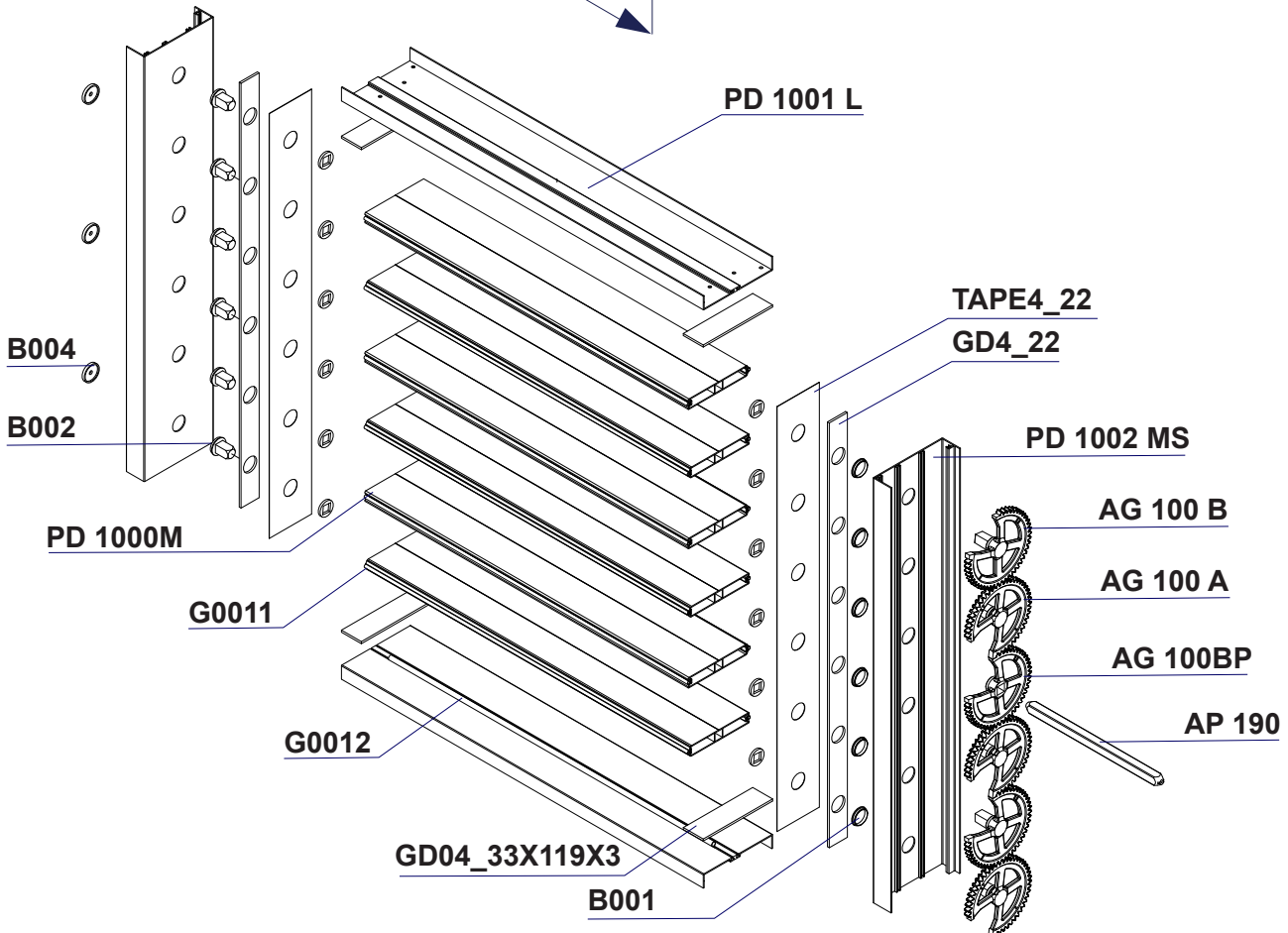
$$A = B + 60 \text{ mm}$$

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

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

"D" SHOULDER PROFILE SIZING

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

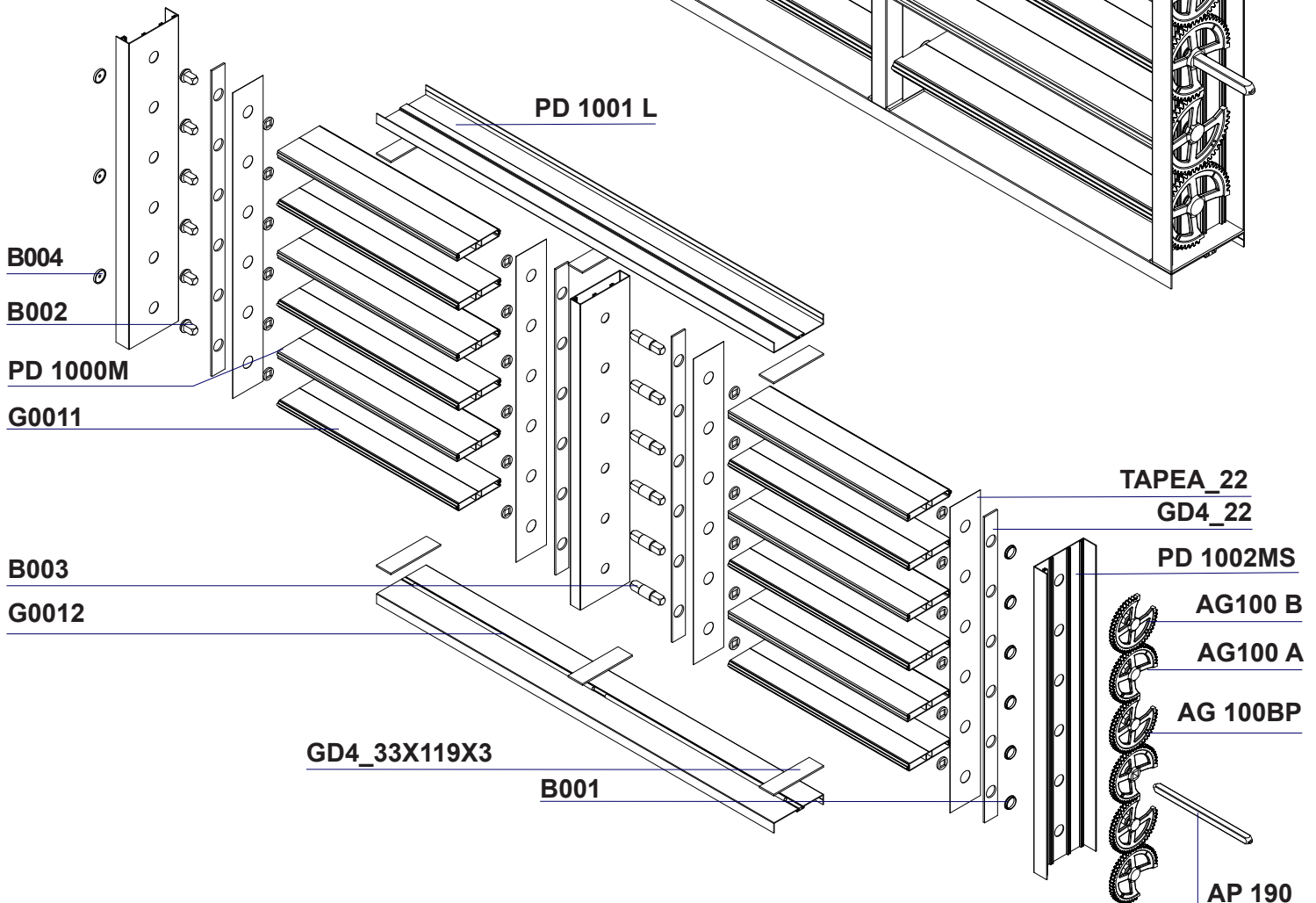
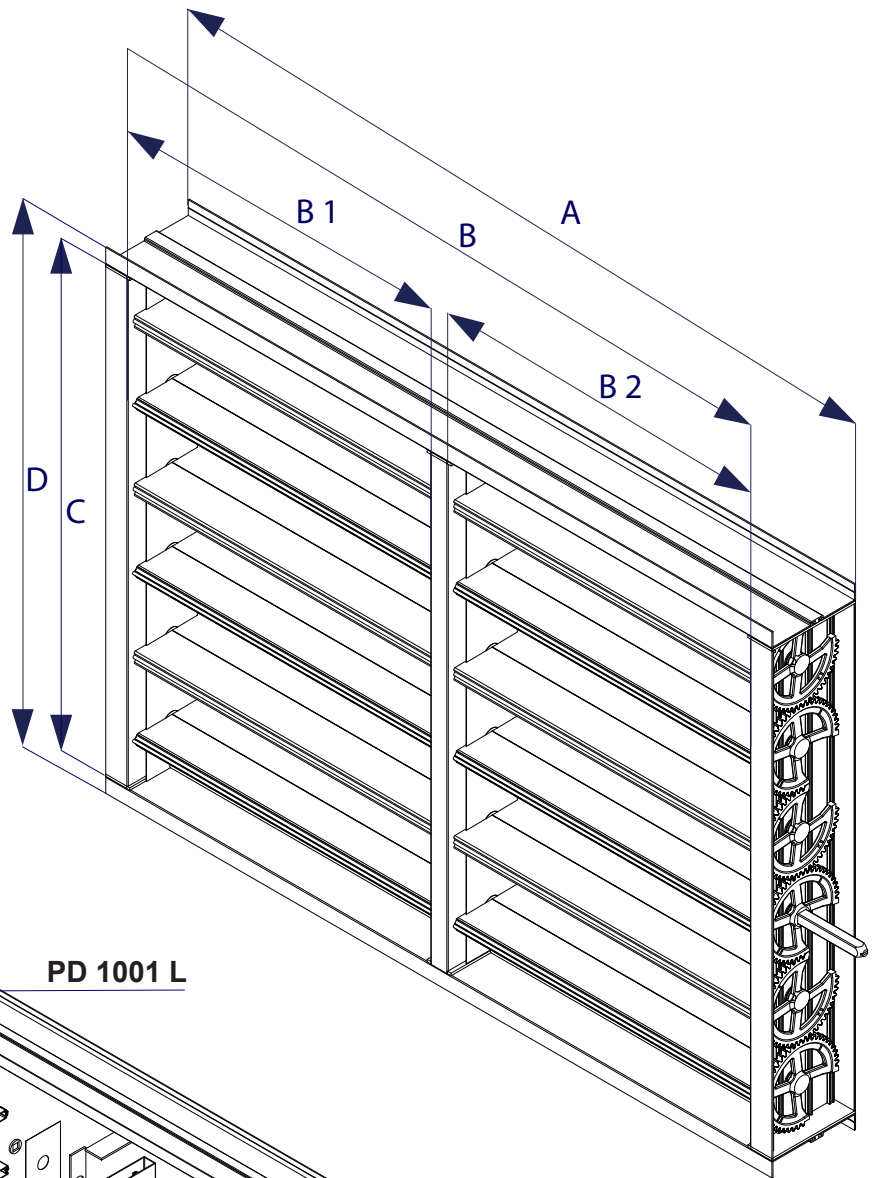


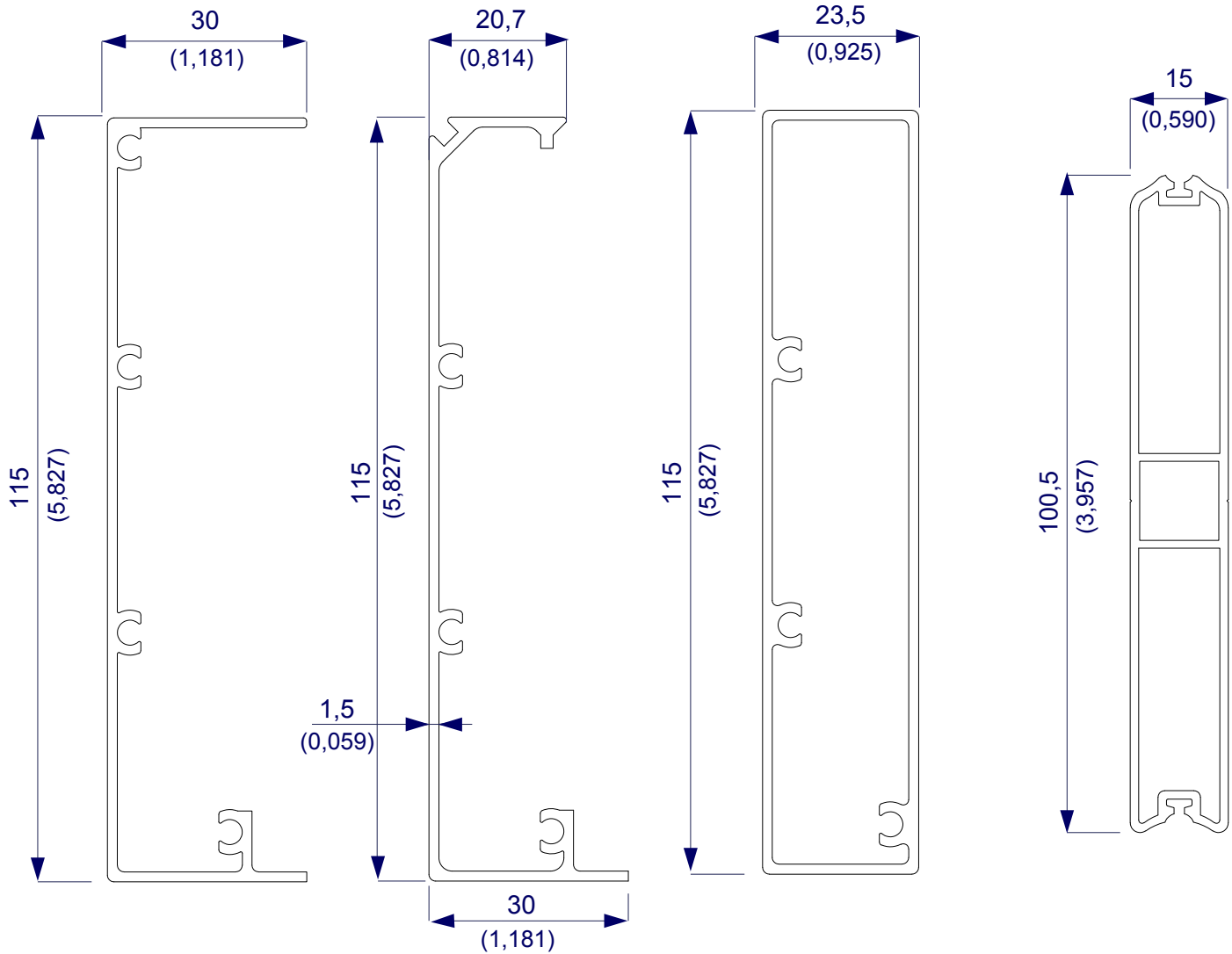
3D representation of double damper

DOUBLE DAMPER FORMULA

DOUBLE DAMPER
 $A = B - 60 \text{ mm}$
 $B1 = B2 = (B - 23.5 \text{ mm}) / 2$
 BLADE length = $B1 - 4 \text{ mm}$
 $B2 - 4 \text{ mm}$
 $C = D - 40 \text{ mm}$
 D = see table below

“D” SHOULDER PROFILE SIZING
 $L = \text{No. of blades} \times 100 \text{ mm} + 10 \text{ mm}$





PD 1002MS

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

PD 1002MR

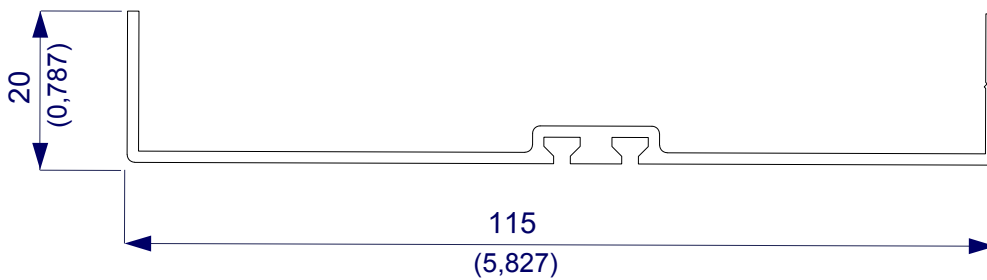
Weight kg/m 0,826
(lb/ft 0,555)
Bundle of 2 bars

PD 1003M

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

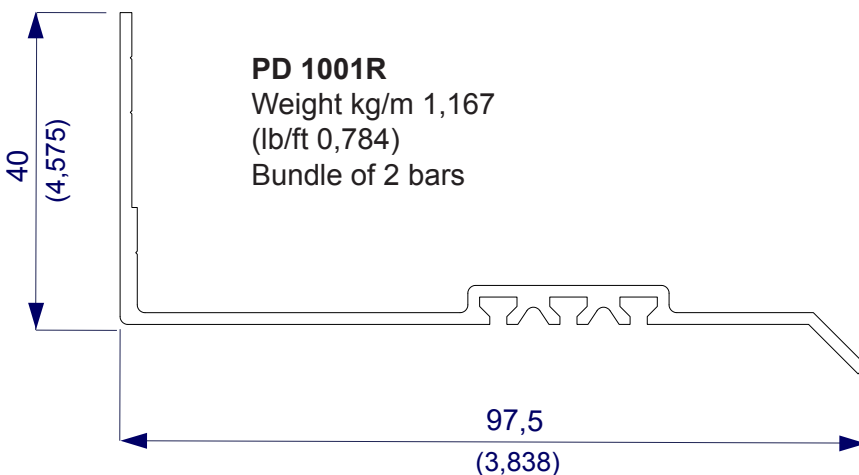
PD 1000M

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



PD 1001L

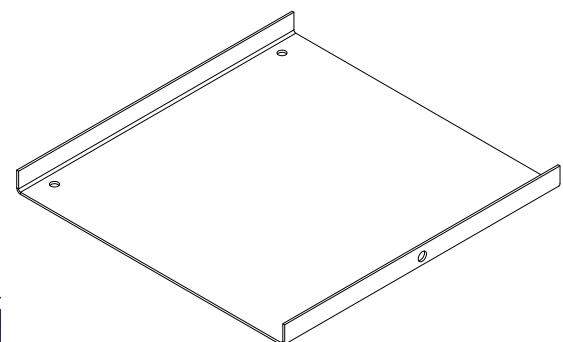
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars

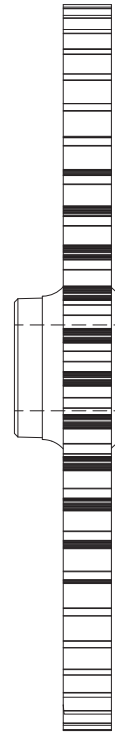
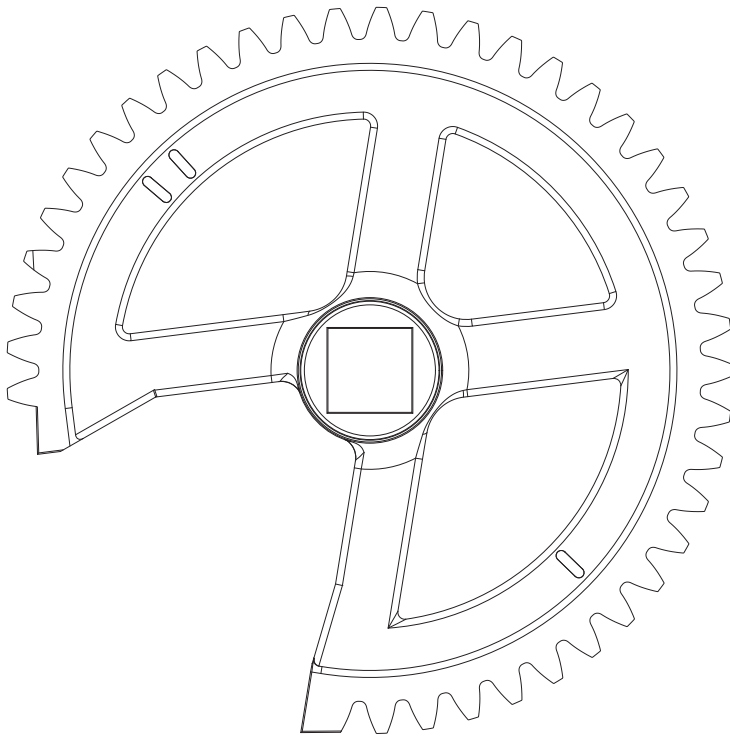


PD 1001R

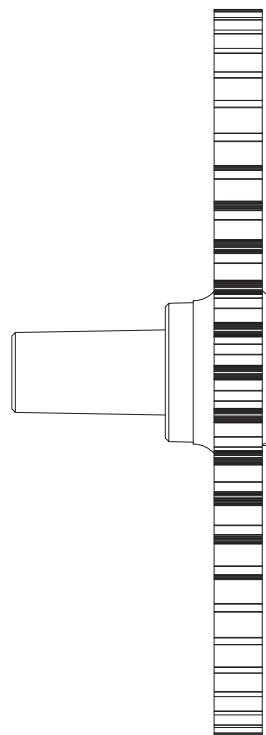
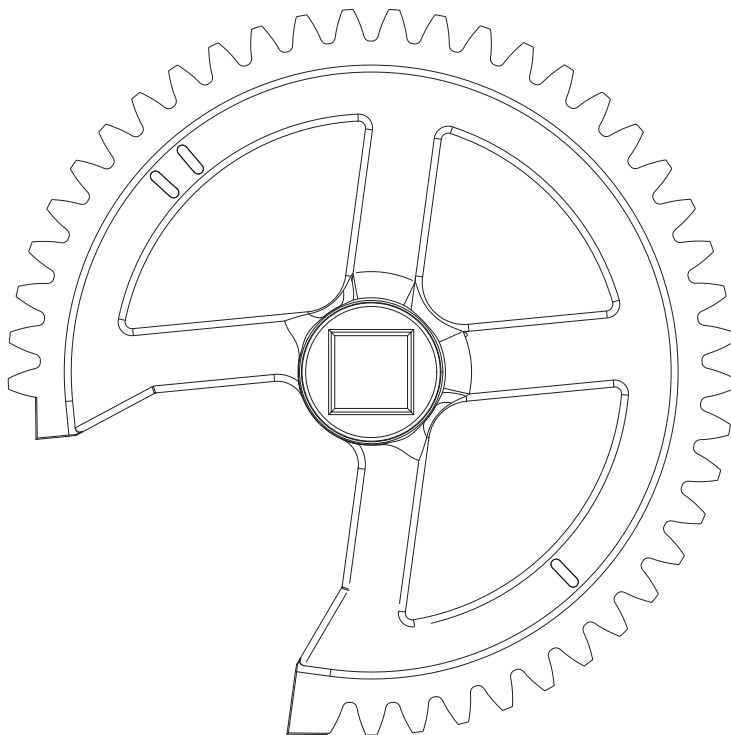
Weight kg/m 1,167
(lb/ft 0,784)
Bundle of 2 bars

**ENGINE HOLDER
DS DAH**

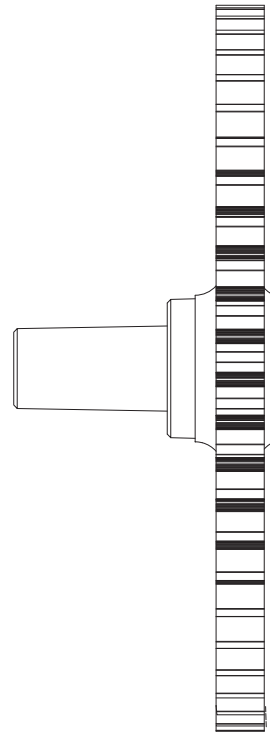
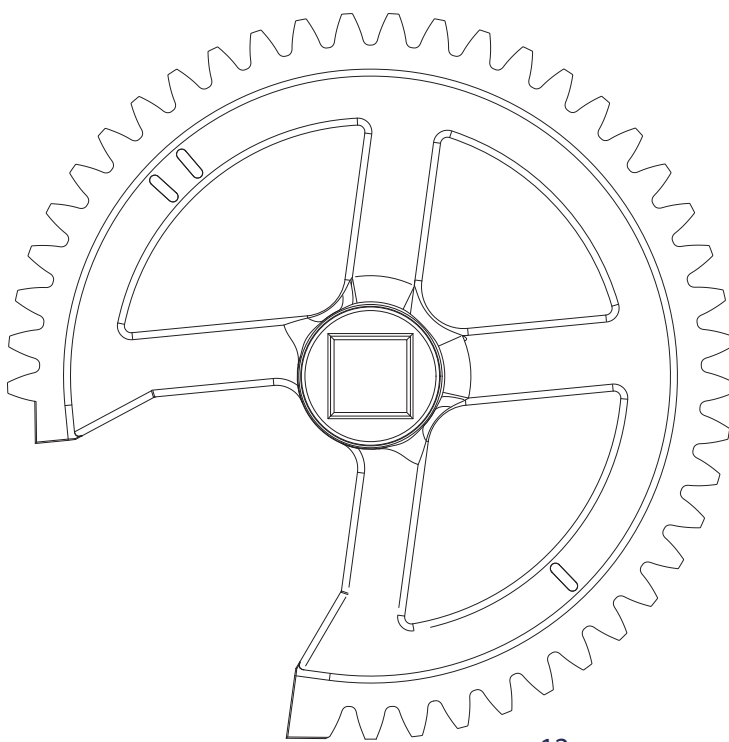




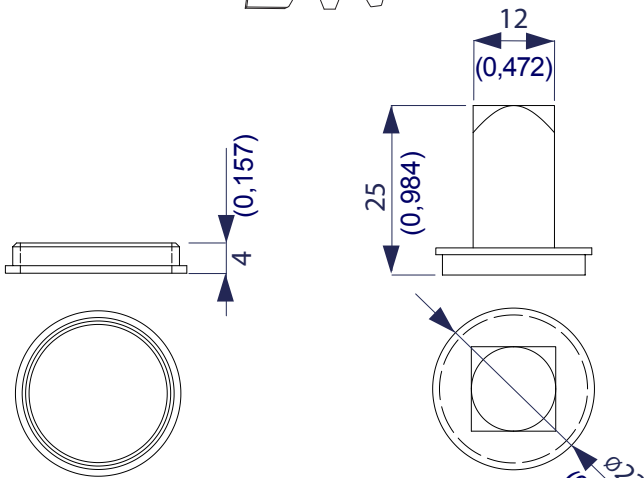
AG 100BP
Boxes of 100 pcs.



AG 100 A
Boxes of 100 pcs.



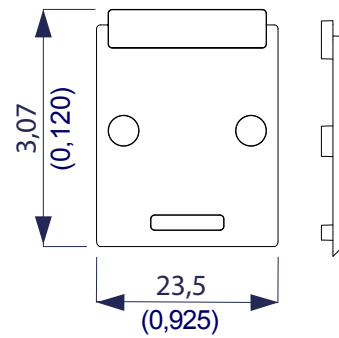
AG 100 B
Boxes of 100 pcs.



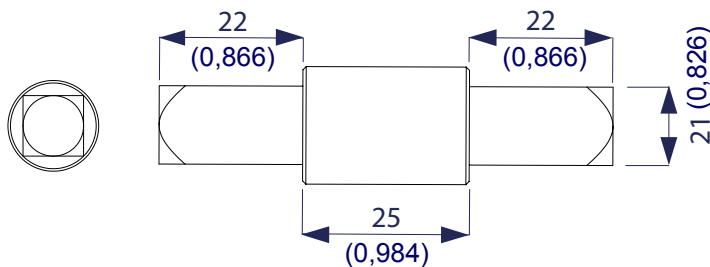
B001
INCLUDED IN
AG 100BP
AG 100 A
AG 100 B

B002
INCLUDED IN
AG 100BP
AG 100 A
AG 100 B

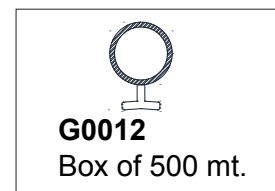
AG 1008



B003
FOR DOUBLE DAMPERS

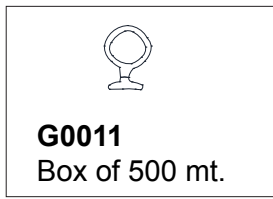


GASKET



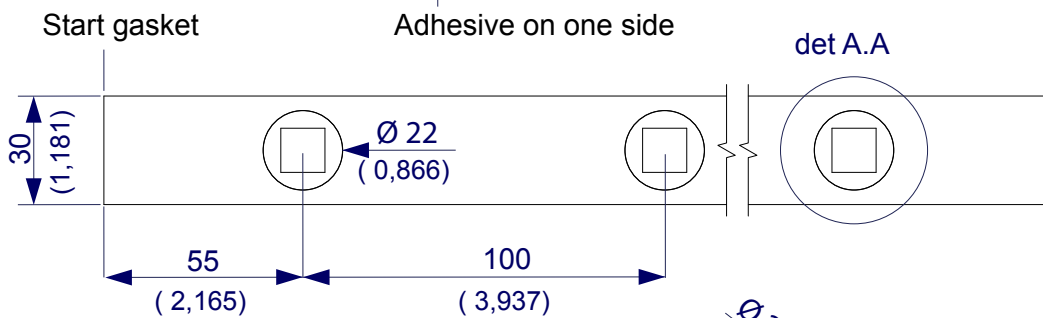
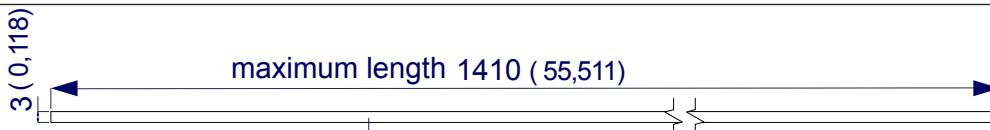
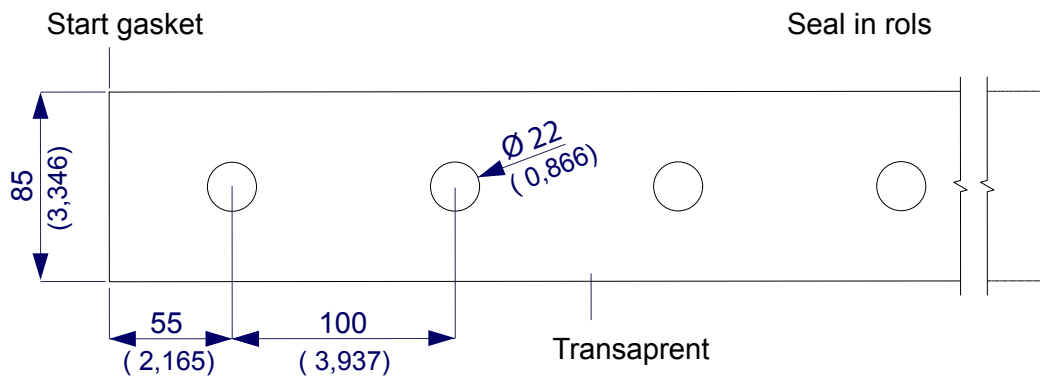
G0012
Box of 500 mt.

GASKET

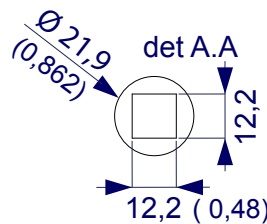


TAPE4_22

1 rol



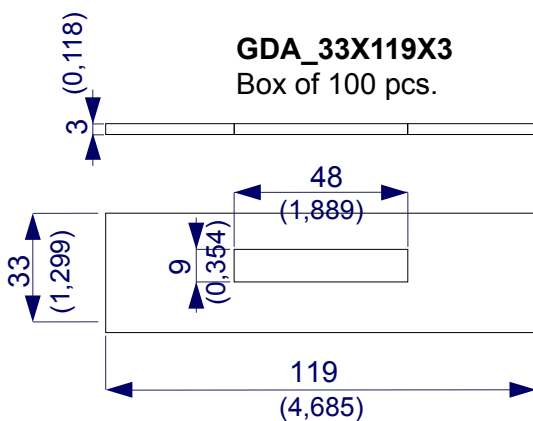
GDA_22
Box of 500 mt.



Separable washer

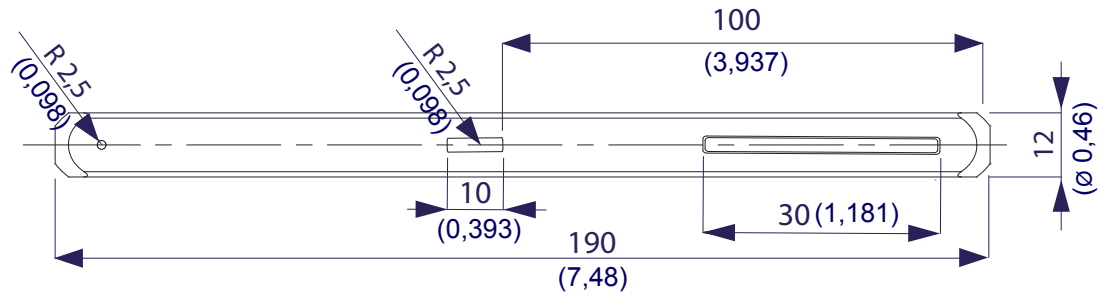
GDA_33X119X3

Box of 100 pcs.



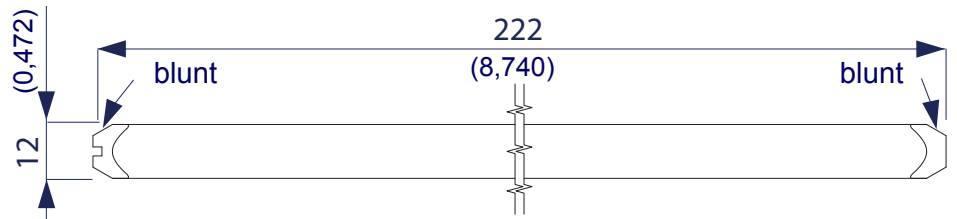
DAMPER SHAFTS

AP 190
Box of 150 pcs.

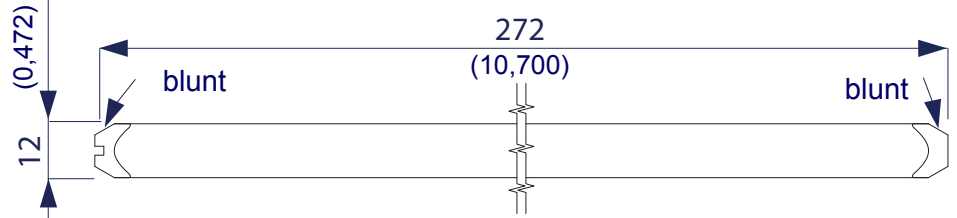


NS

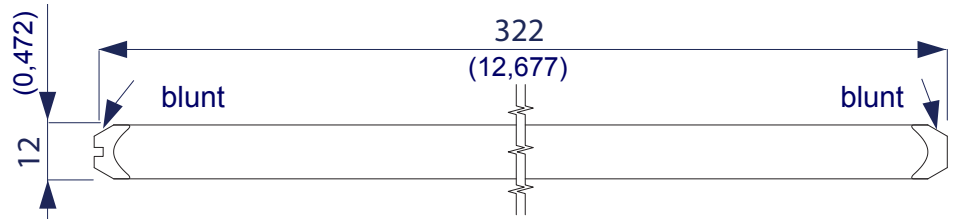
Q 12X12 L=222



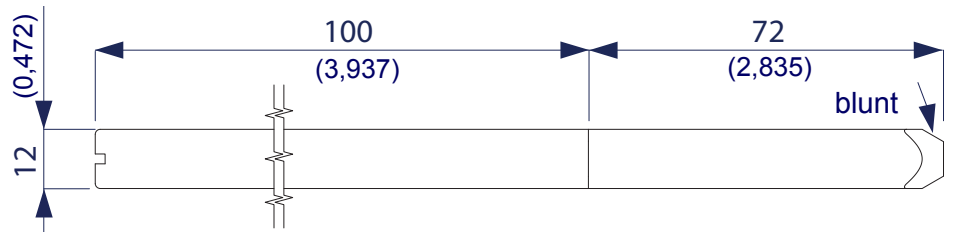
Q 12X12 L=272



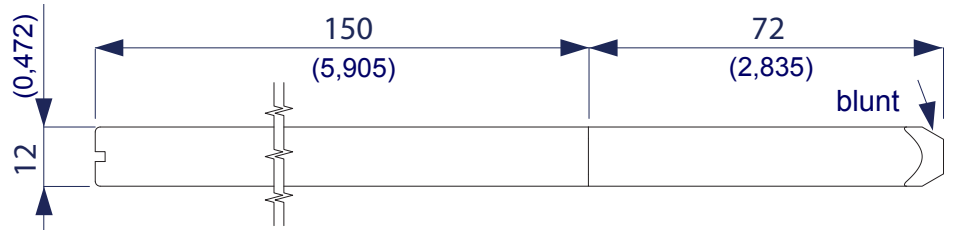
Q 12X12 L=322



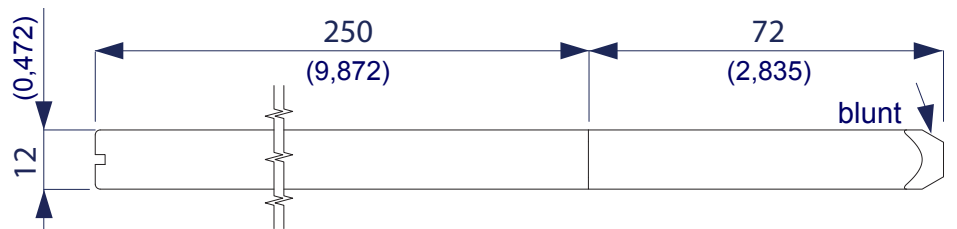
Ø Q 12X12 L=172



Ø Q 12X12 L=222



Ø Q 12X12 L=322



Griglie in alluminio: profili ed accessori.

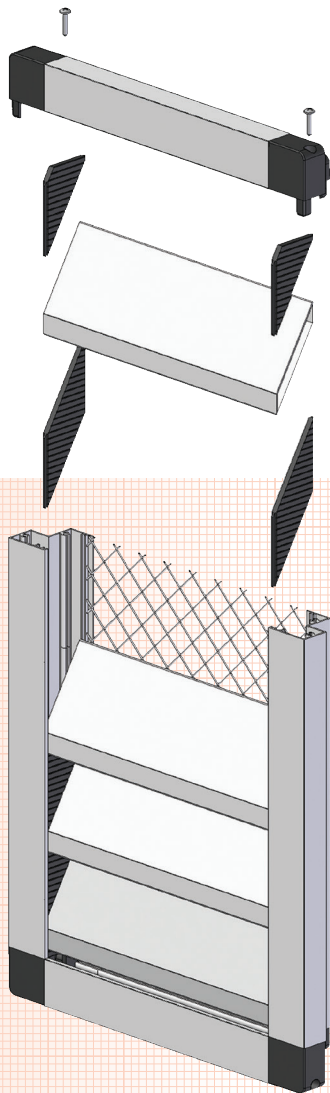
Aluminium louvers: profiles and accessories.

Grilles en aluminium: profiles et accessoires.

Rejillas en aluminio: perfiles y accesorios.

Aluminumgitter.

铝磨碎。



Sezione
Section
Section
Sección
Teil
第08号

08

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

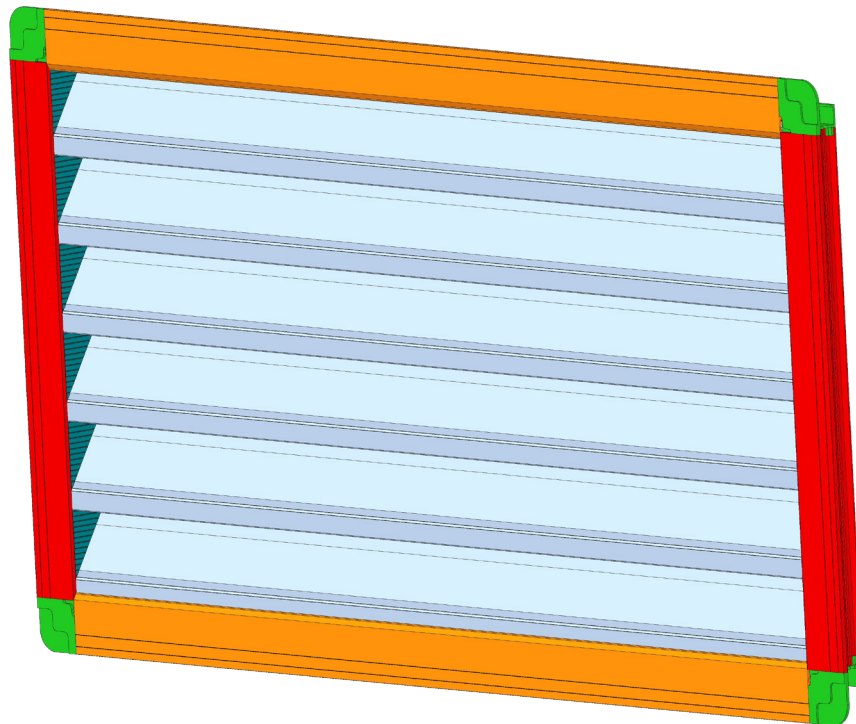
The common features of these louvers are the design and the assembly method where the blades are automatically fixed and spaced out on the frame by special nylon spacers.

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

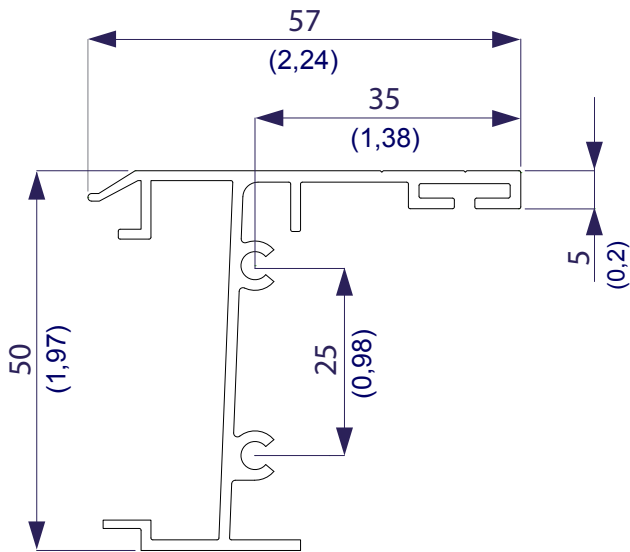
This system avoids the need of screws, rivets or expensive tool to fix the blades.

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.

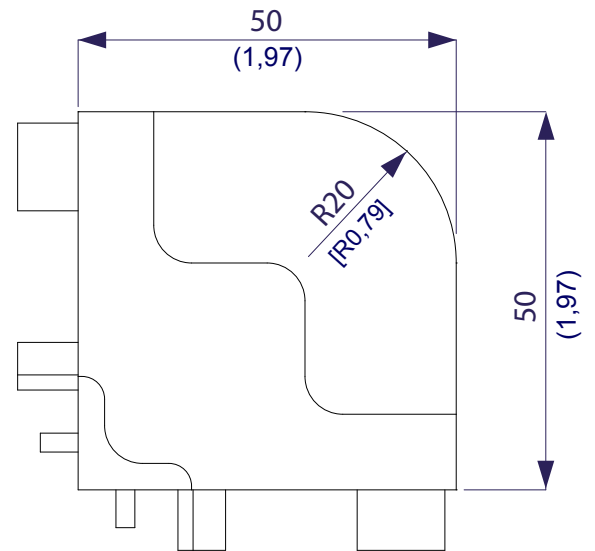


Profiles and accessories



PL 130

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



A 130

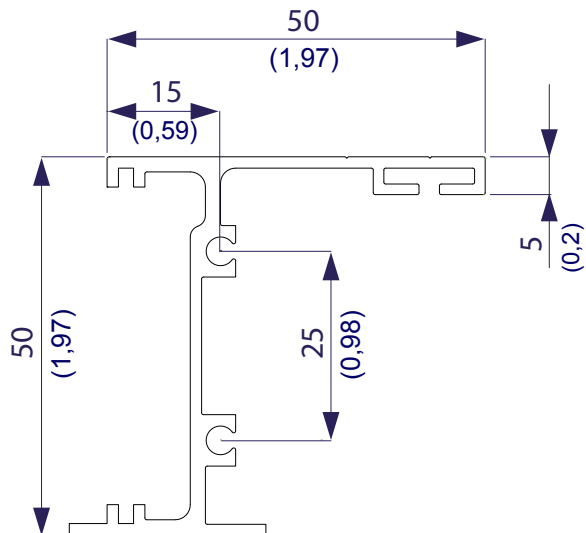
Box of 120 pcs.

GASKET



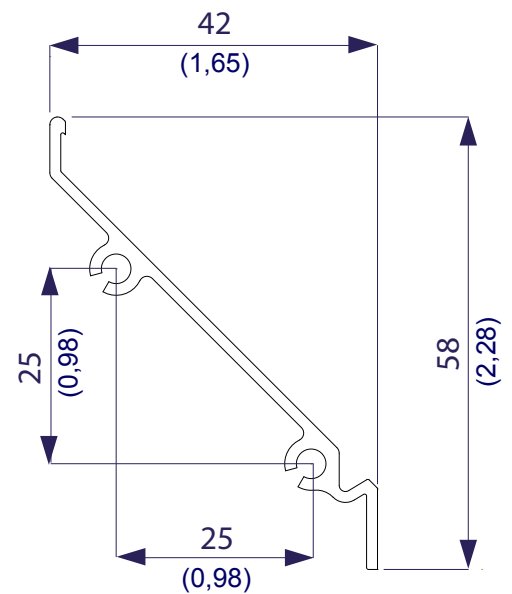
G001

Box of 500 mt.



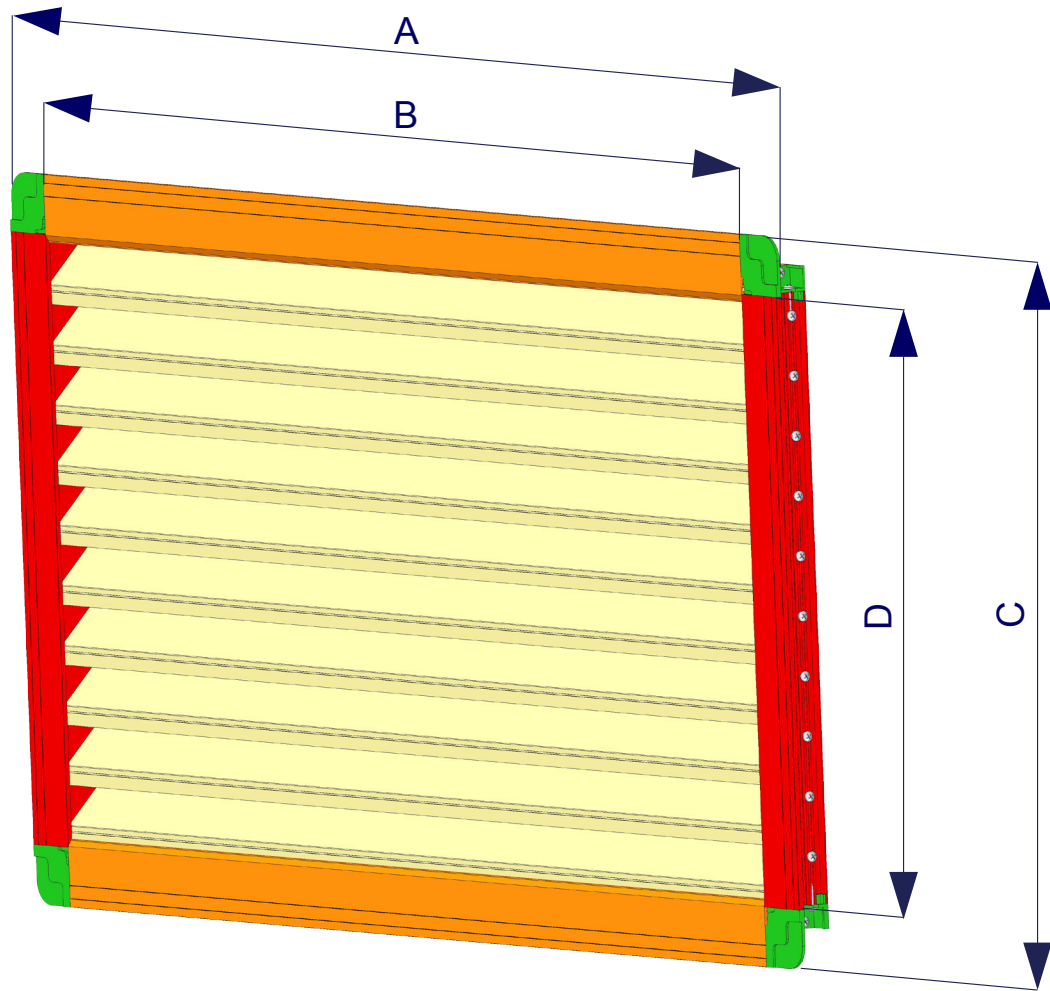
PL 131

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



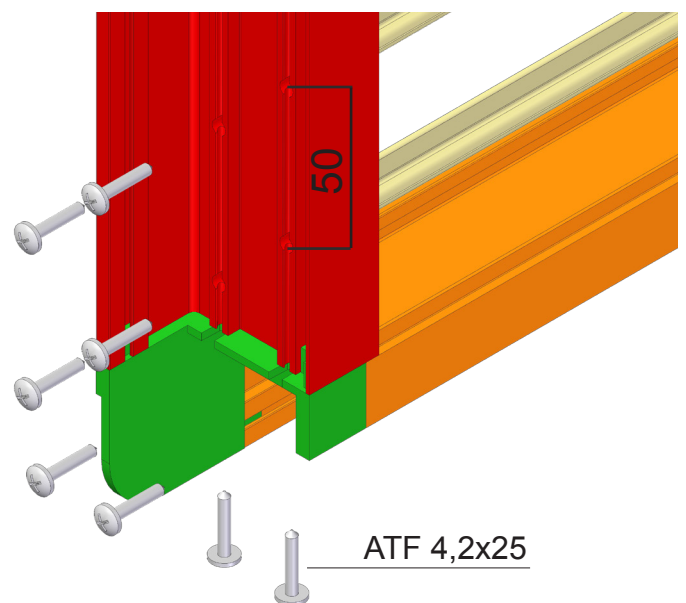
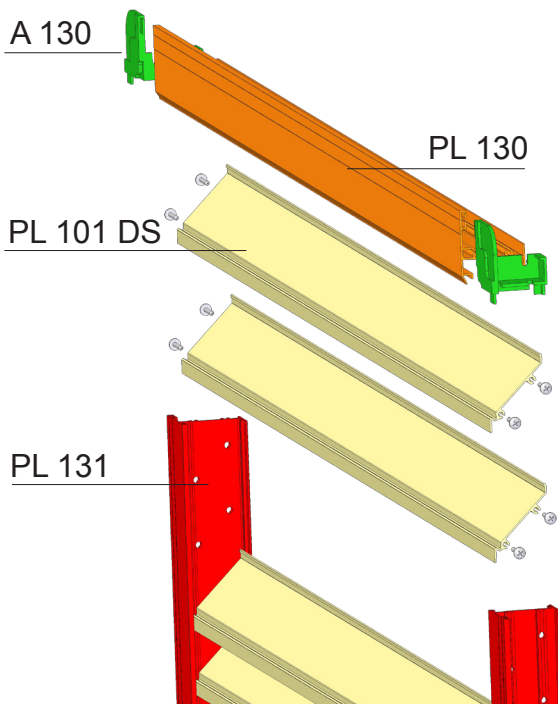
PL 101 DS

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

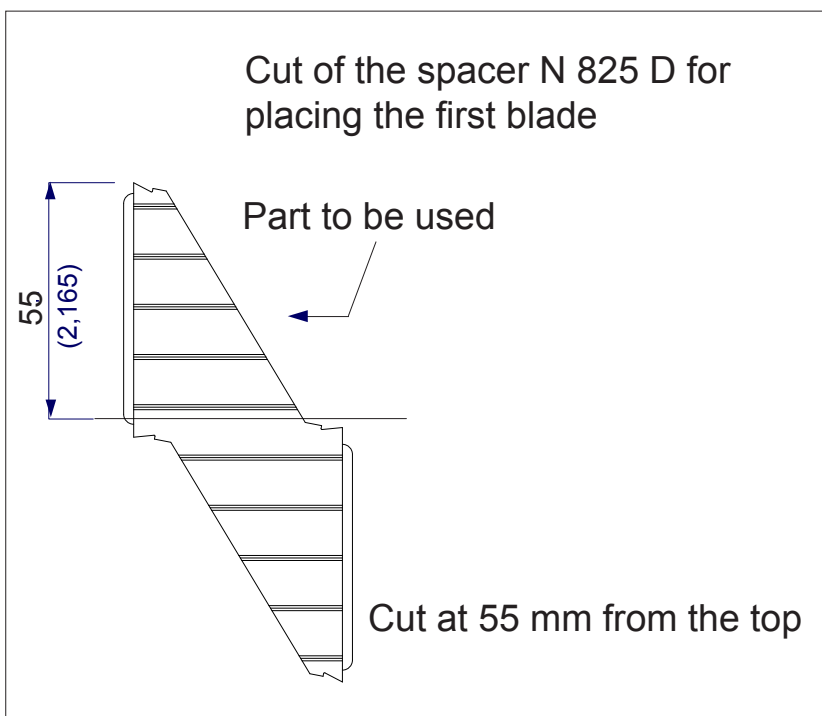
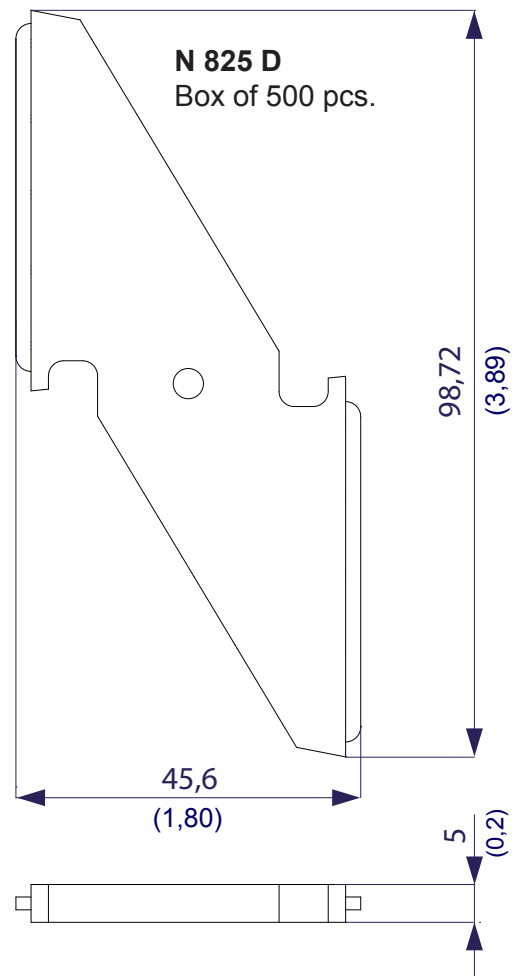
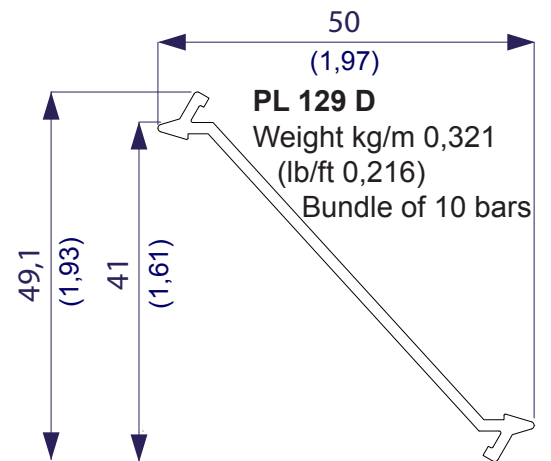
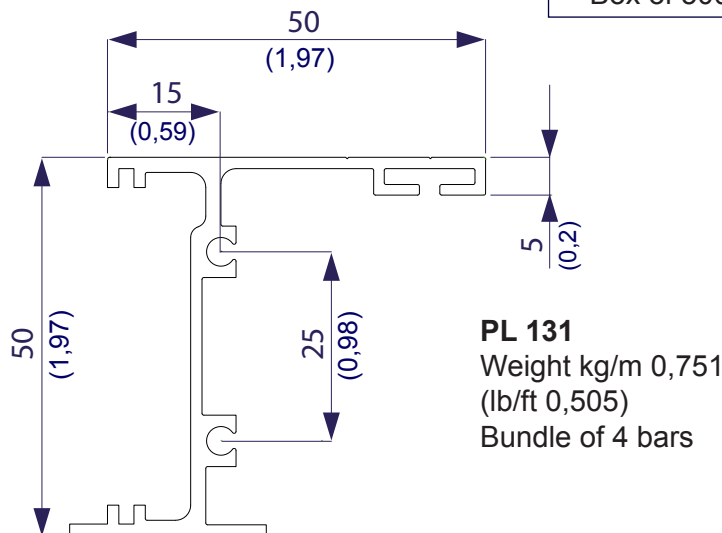
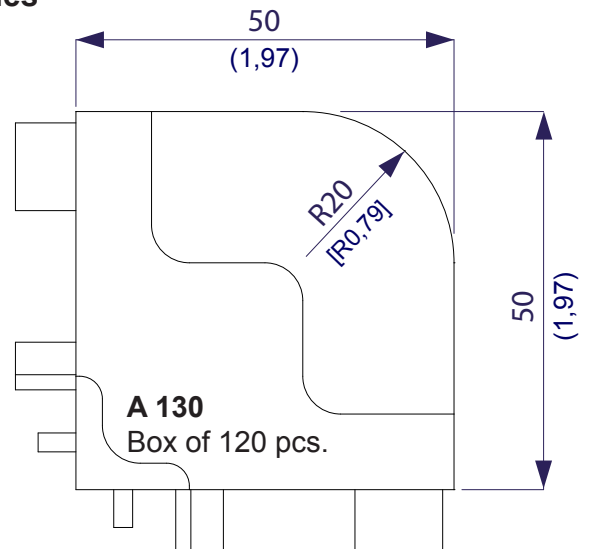
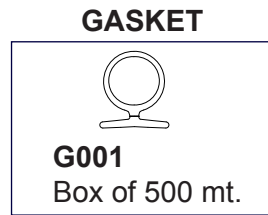
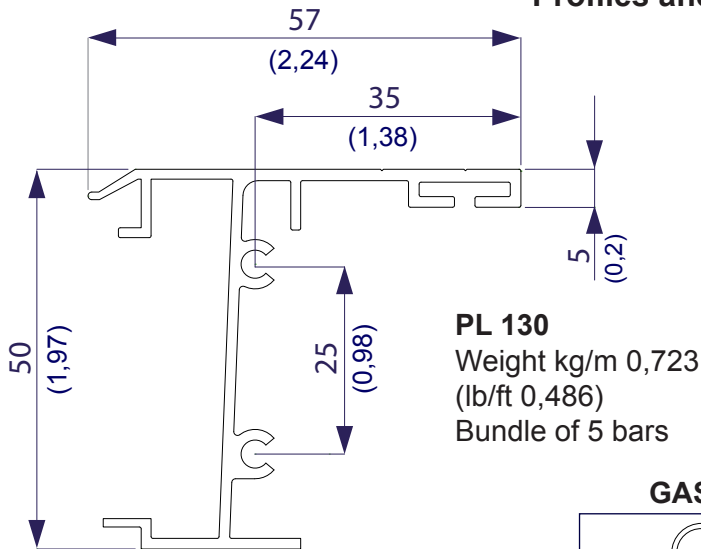


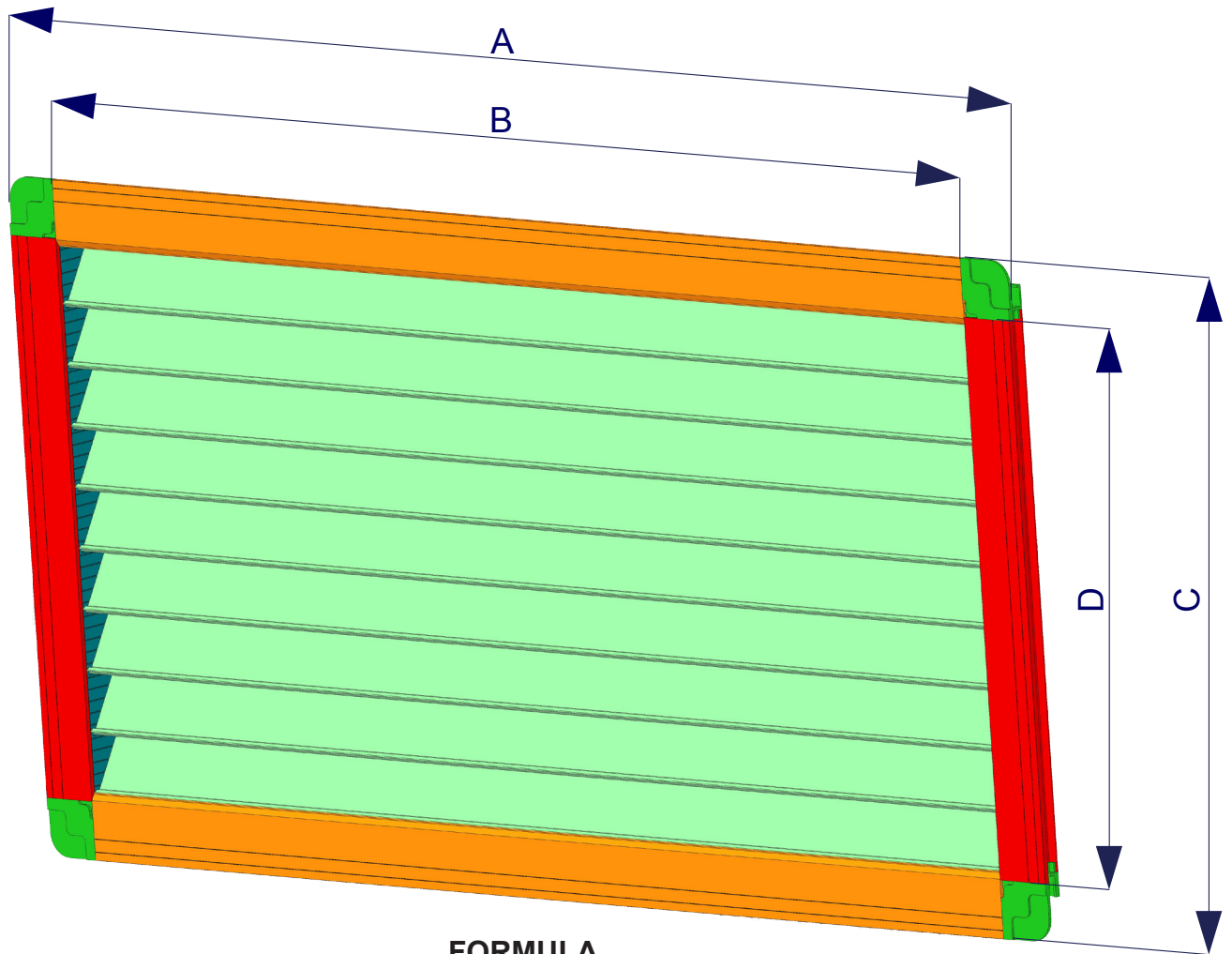
FORMULA

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



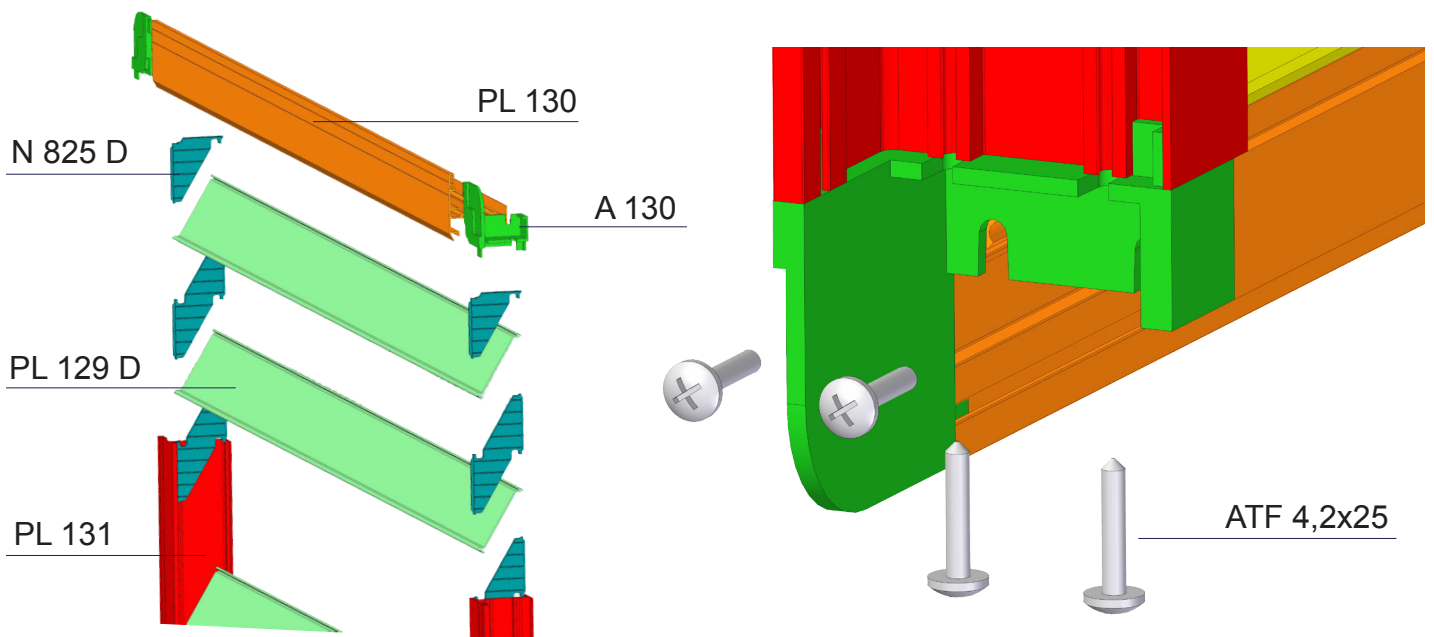
Profiles and accessories



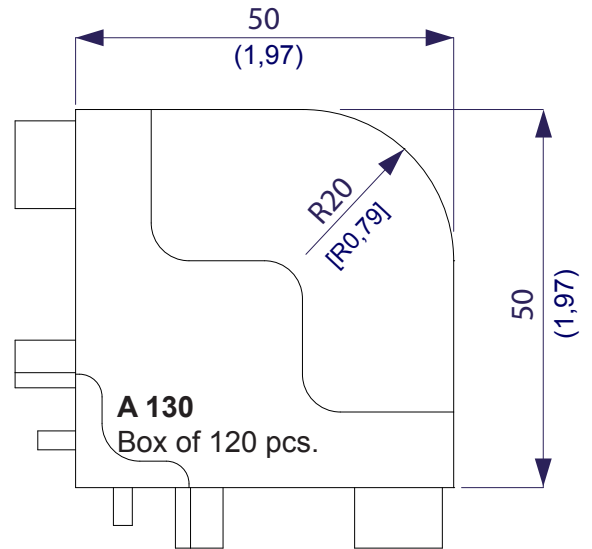
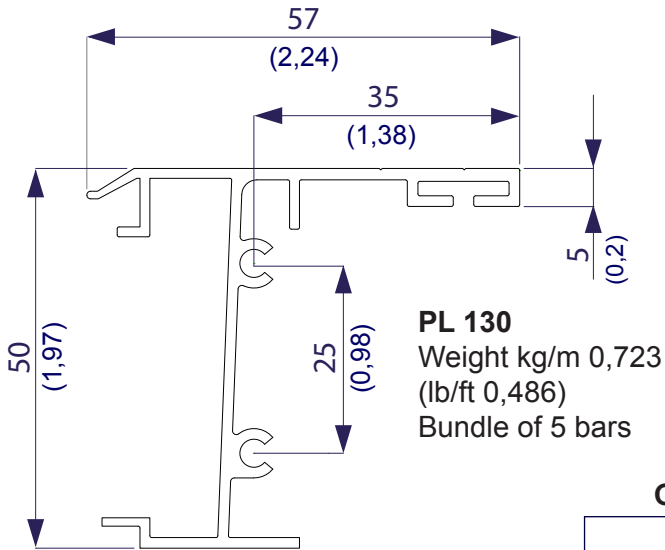


FORMULA

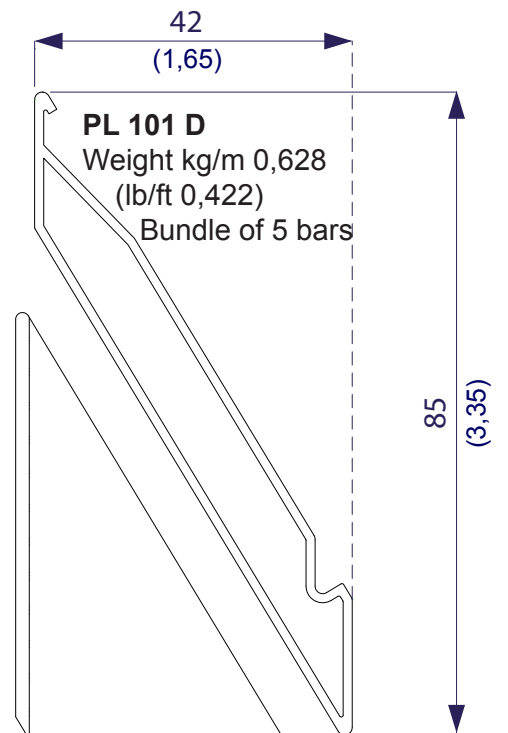
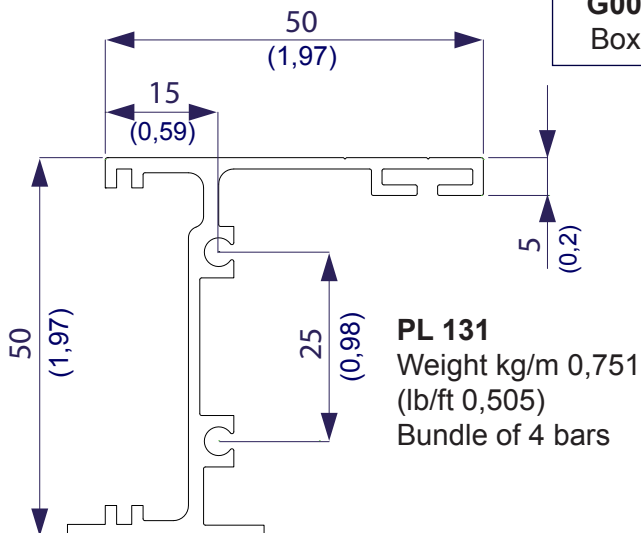
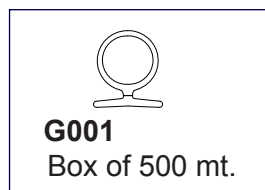
$B \text{ (PL 130)} = A - 100$
 $D \text{ (PL 131)} = C - 100$
 Length of blades (PL 129 D) = $A - 80$
 $N^{\circ} \text{ blades (C - 100) : } 51,5$



Profiles and accessories

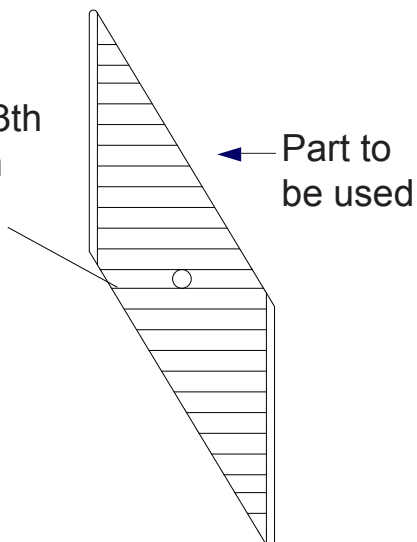


GASKET

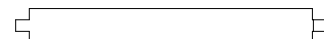


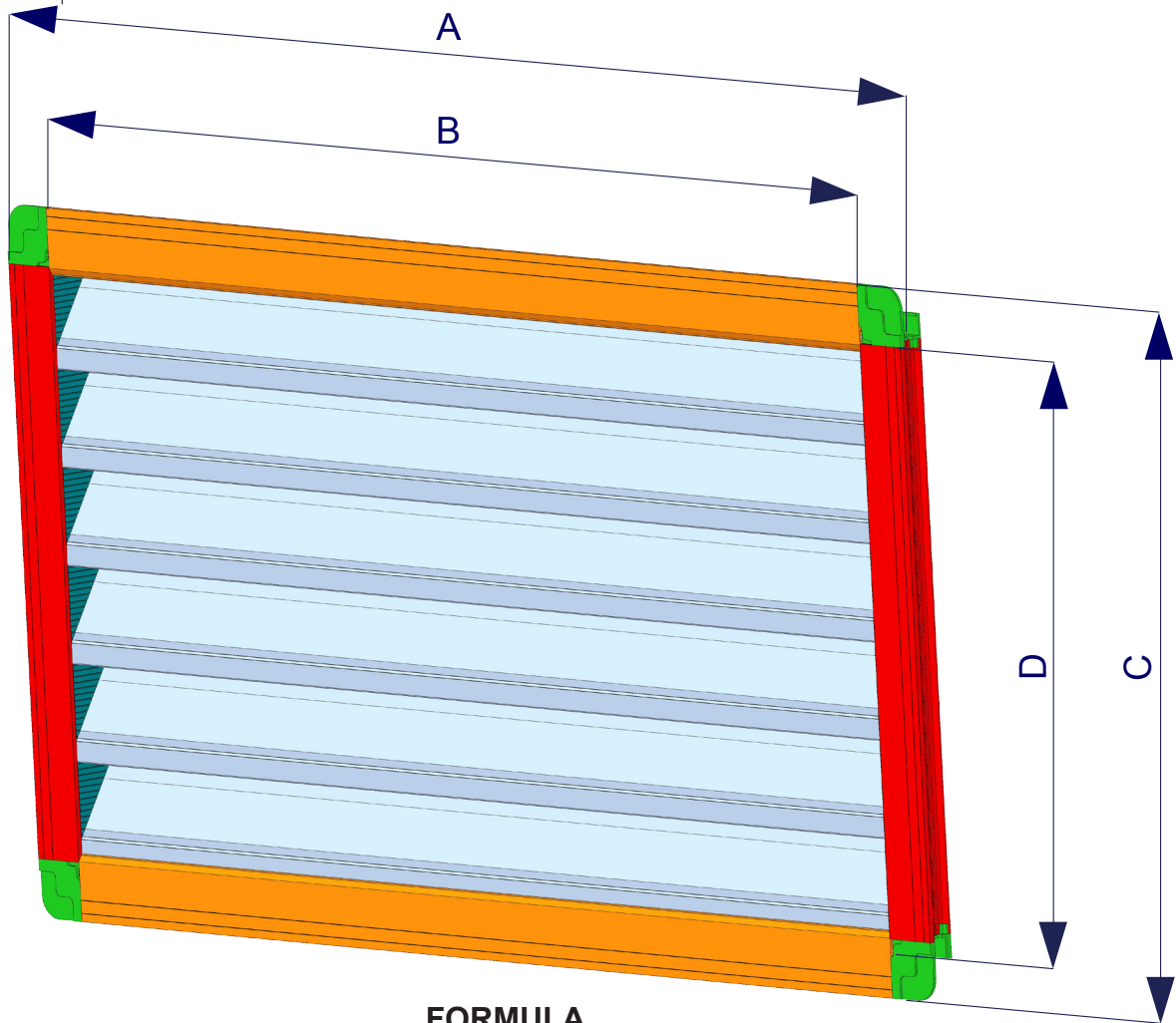
Cut of the spacer N 827 for placing the first blade

Cut at 13th line from the top



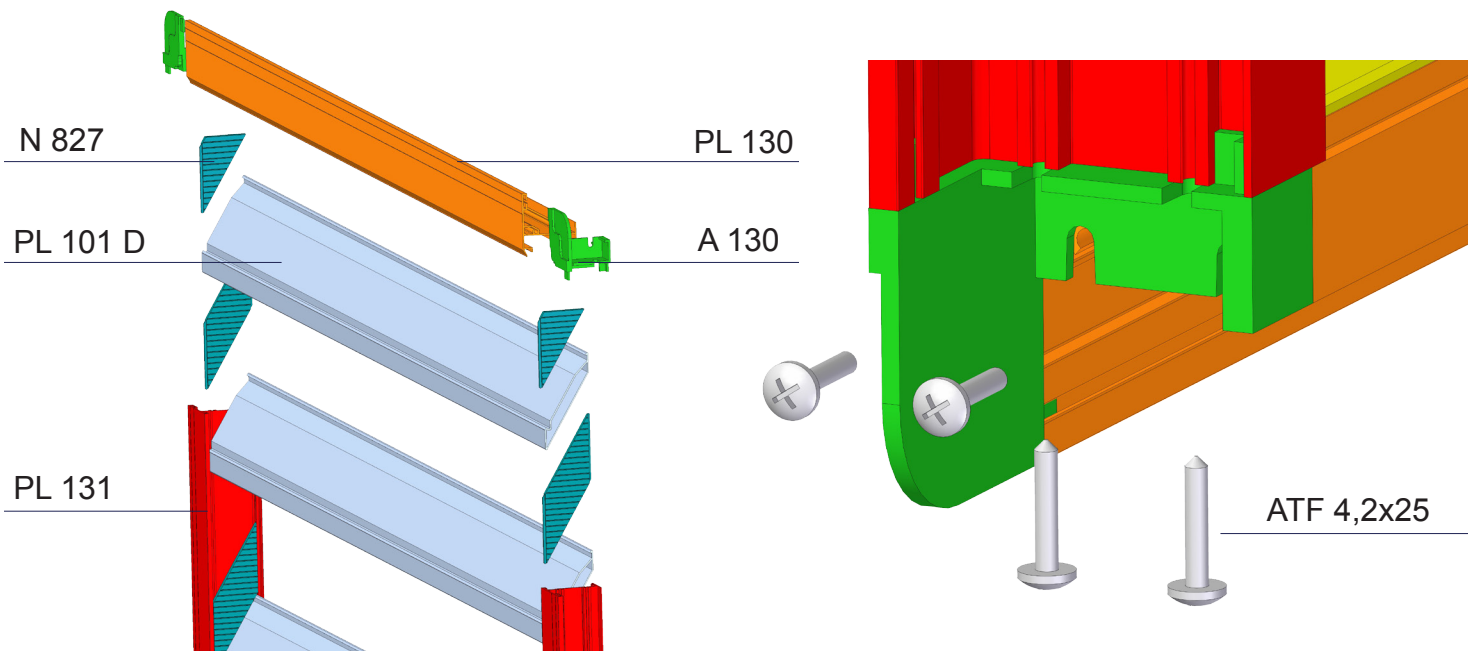
N 827
Box of 500 pcs.



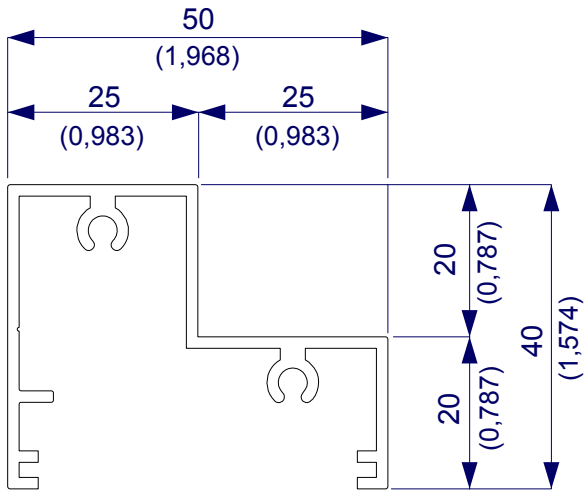


FORMULA

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



Profiles and accessories

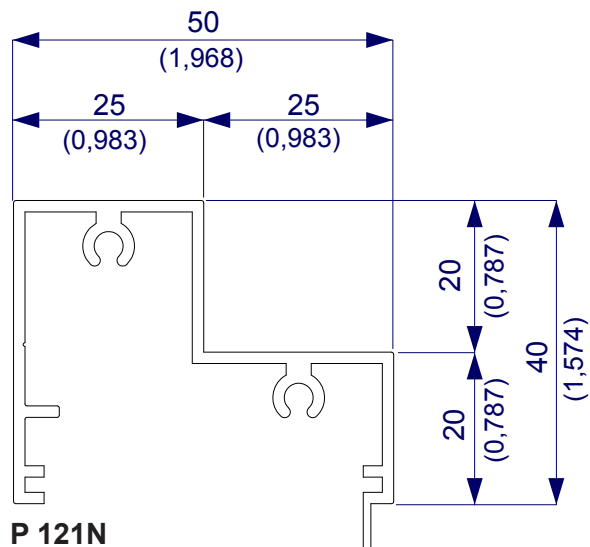
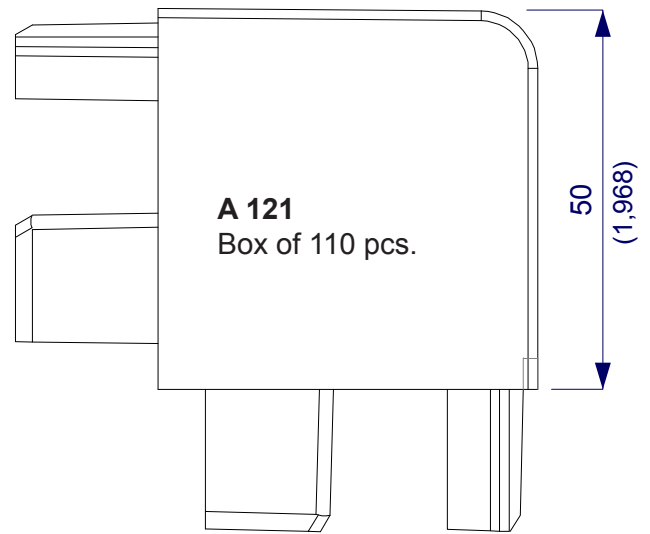


P 121

Weight kg/m 0,722

(lb/ft 0,485)

Bundle of 4 bars

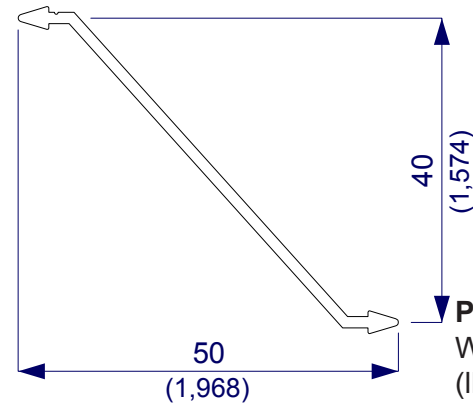


P 121N

Weight kg/m 0,727

(lb/ft 0,488)

Bundle of 4 bars

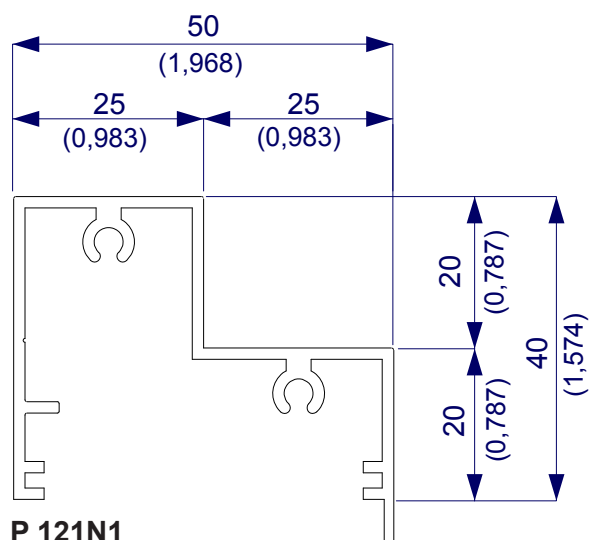


P 129

Weight kg/m 0,283

(lb/ft 0,190)

Bundle of 10 bars

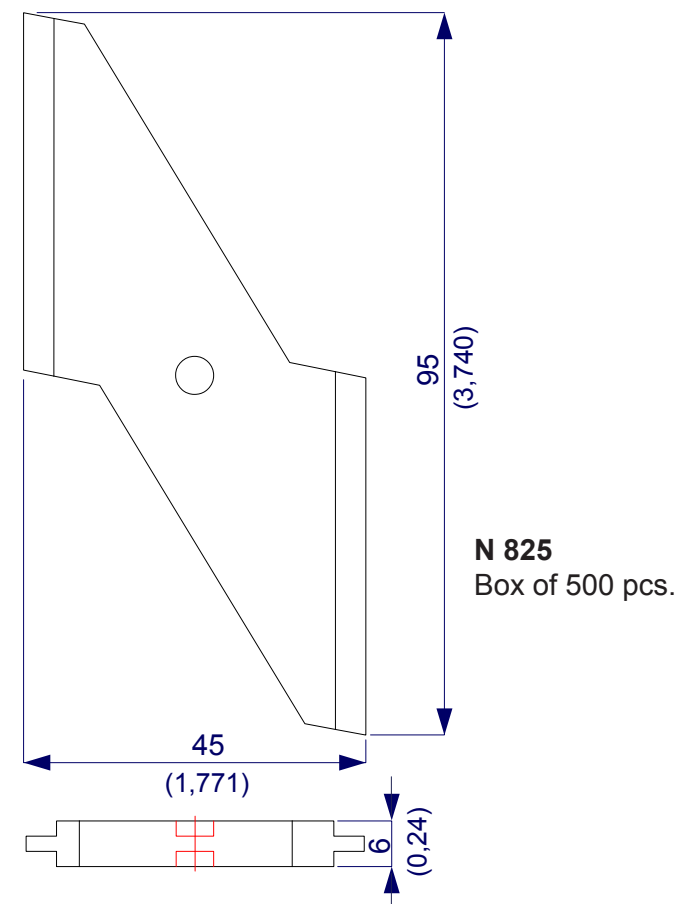


P 121N1

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:

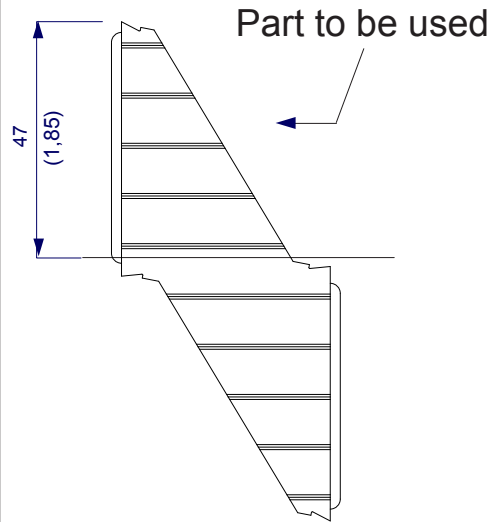
$$B = A - 80 \text{ mm}$$

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

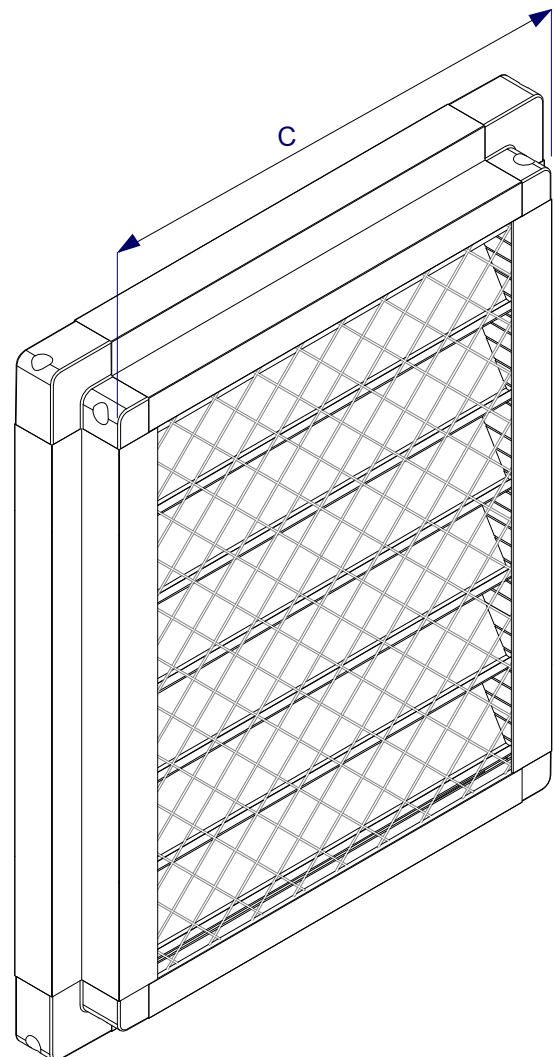
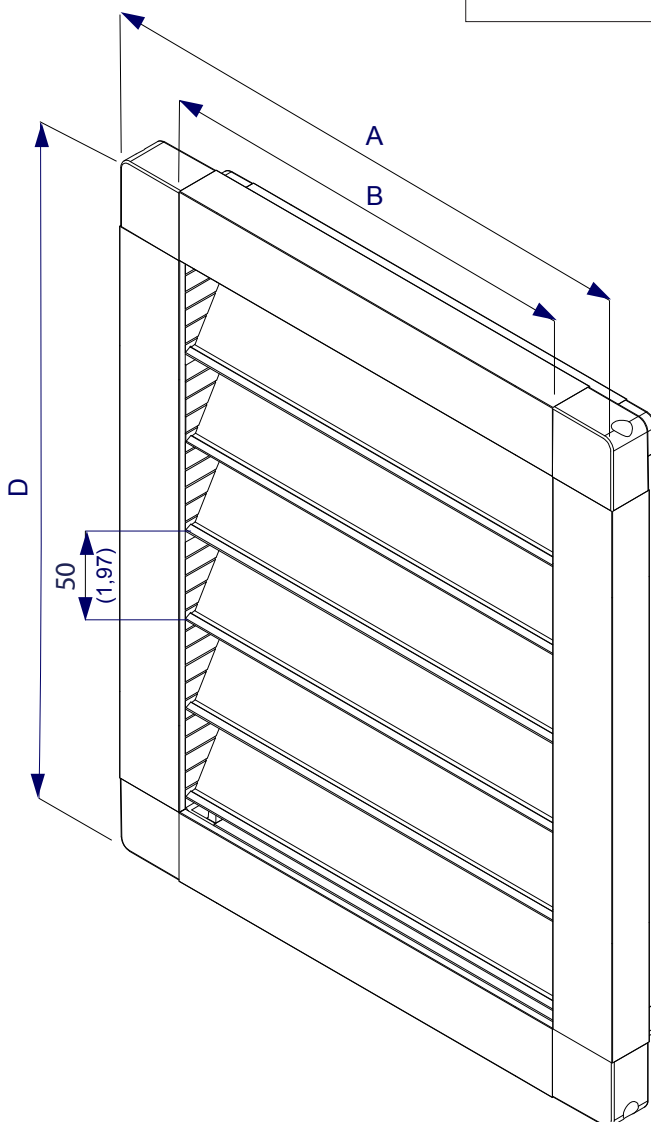
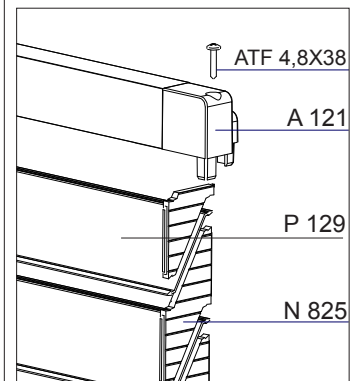
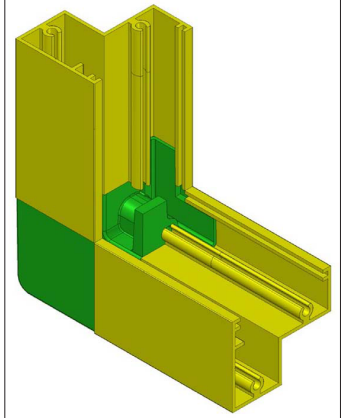
$$\text{Length of blades} = A - 58 \text{ mm}$$

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

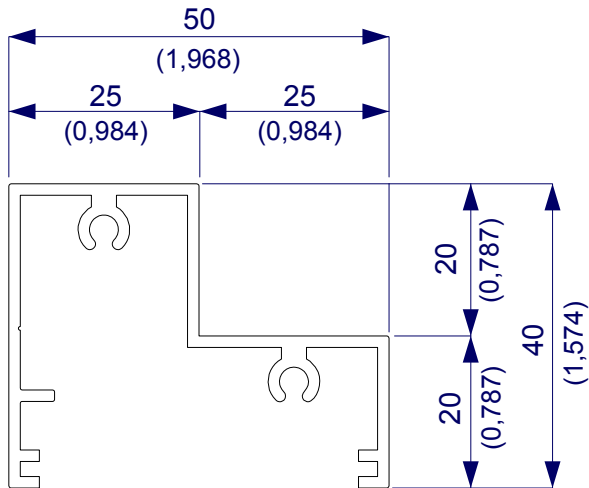
Cut of the spacer N 825 for placing the first blade



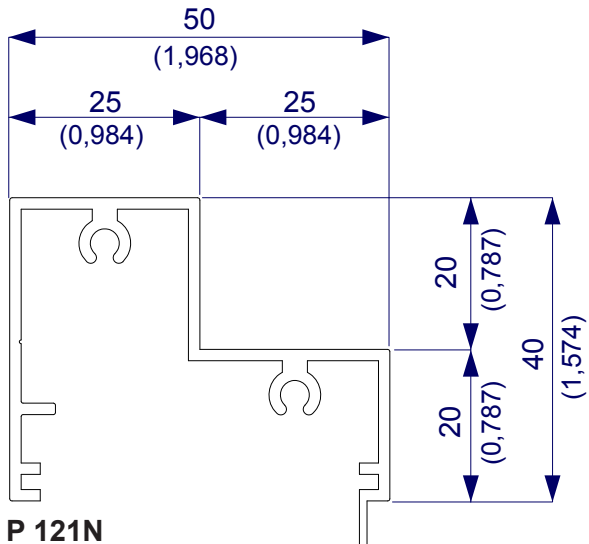
Cut at 47 mm from the top



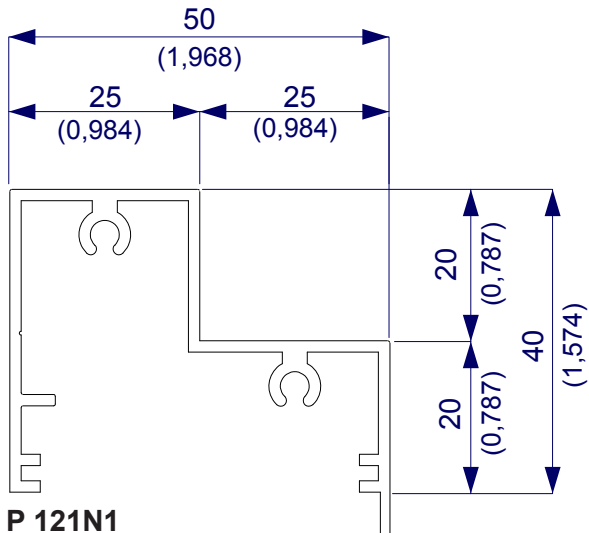
Profiles and accessories



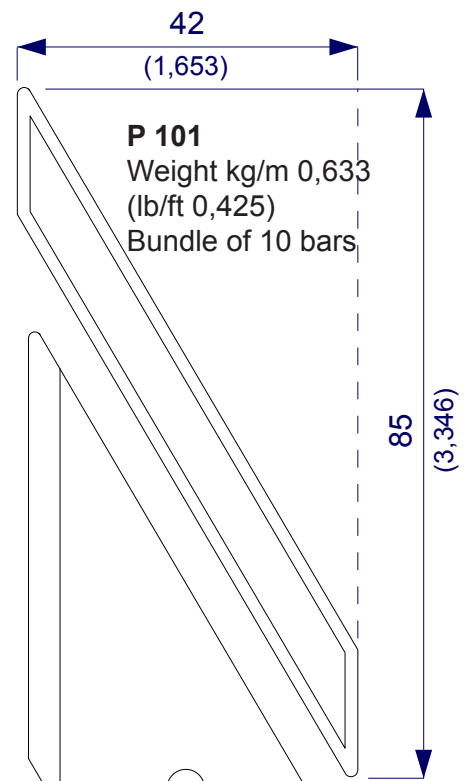
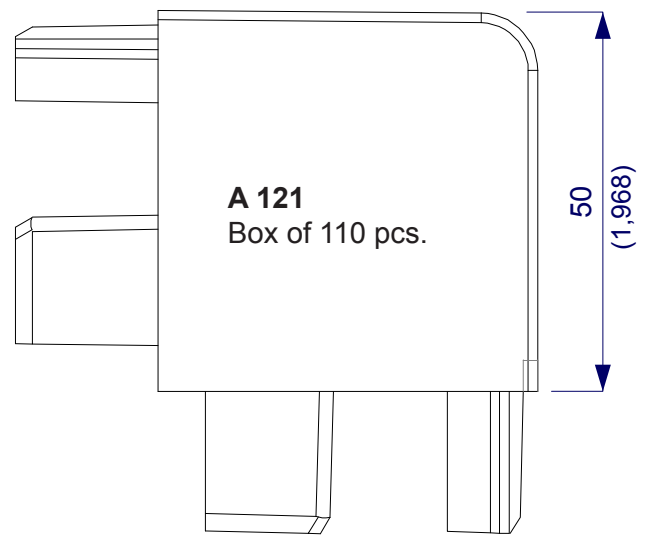
P 121
Weight kg/m 0,722
(lb/ft 0,485)
Bundle of 4 bars



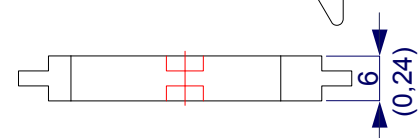
P 121N
Weight kg/m 0,727
(lb/ft 0,488)
Bundle of 4 bars



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



N 827
Box of 500 pcs.



P 121 - P 101 - N 827

FORMULA:

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

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

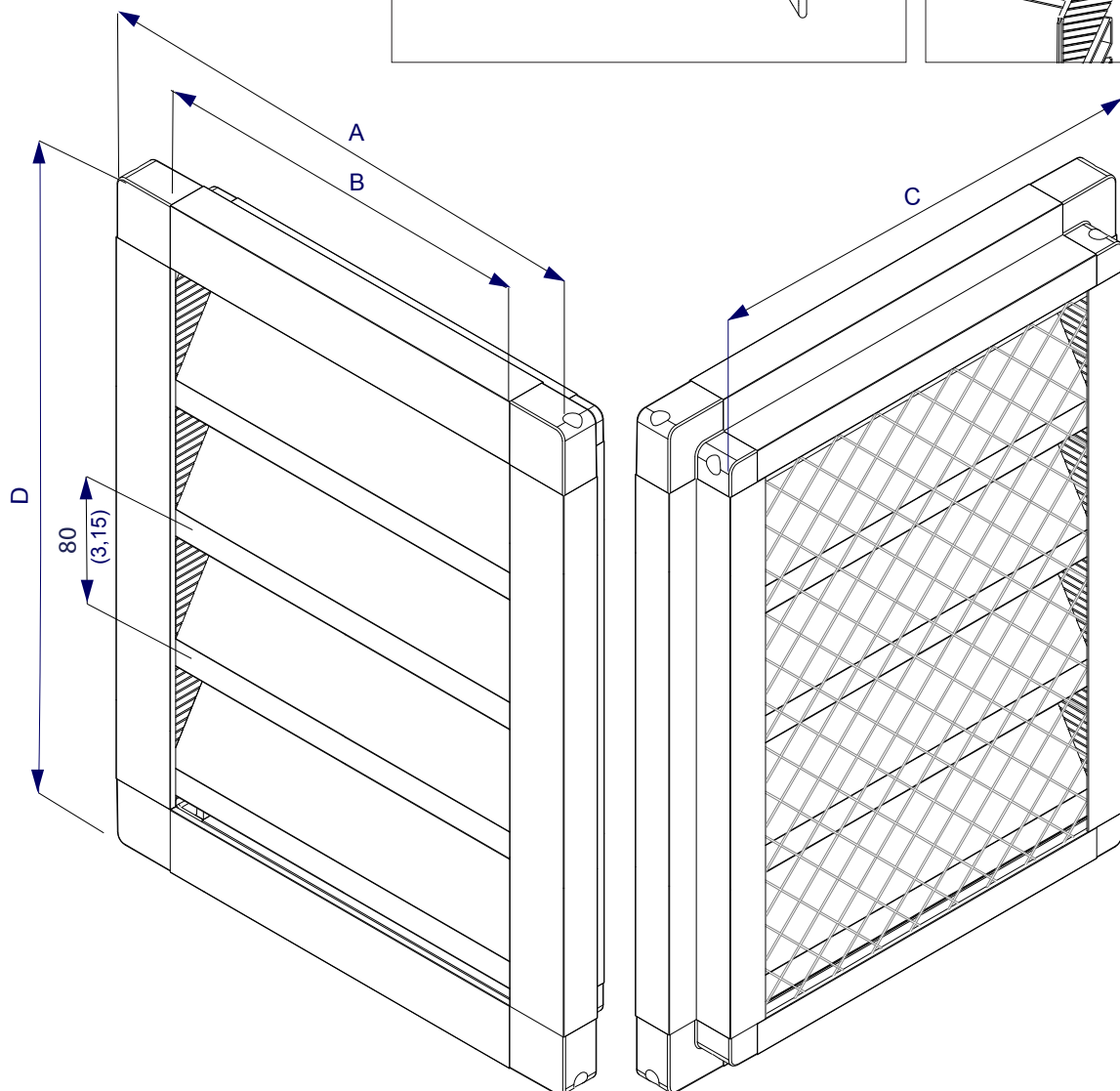
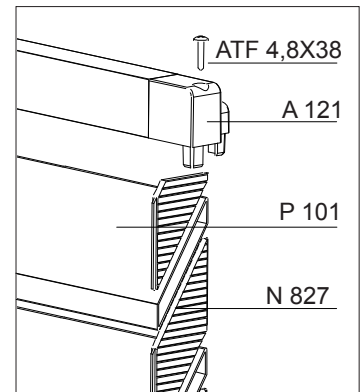
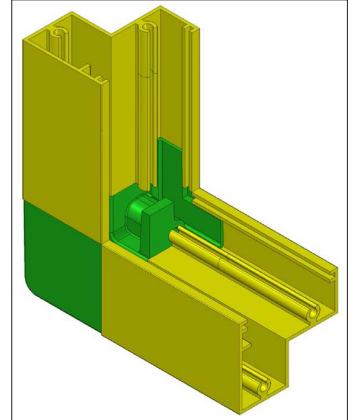
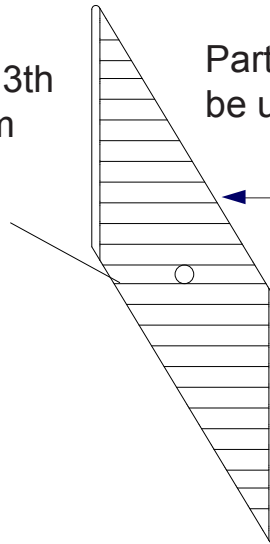
Length of blades = $A - 58 \text{ mm}$

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

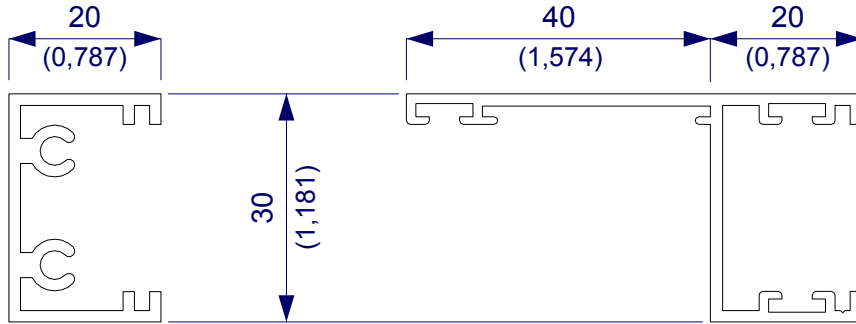
Cut of the spacer N 827
for placing the first blade

Cut at 13th
line from
the top

Part to
be used

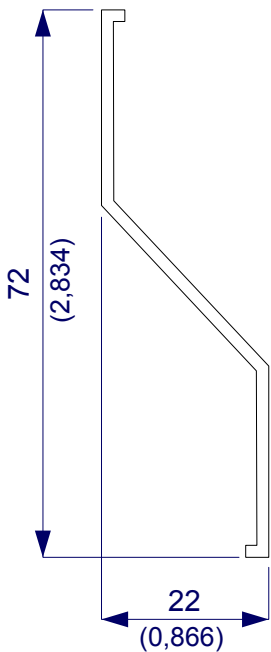


Profiles and accessories



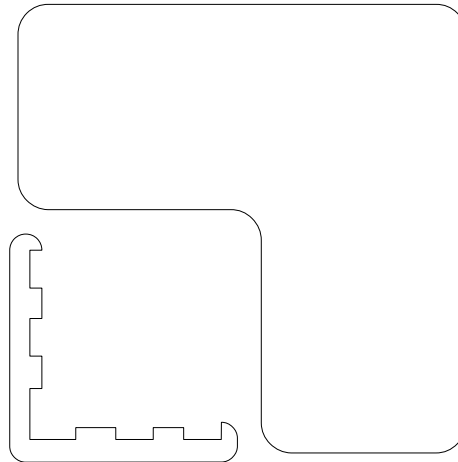
P 123
Weight kg/m 0,461
(lb/ft 0,310)
Bundle of 6 bars

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

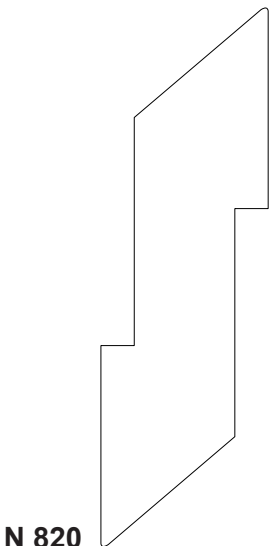


P 124
Weight kg/m 0,365
(lb/ft 0,245)
Bundle of 10 bars

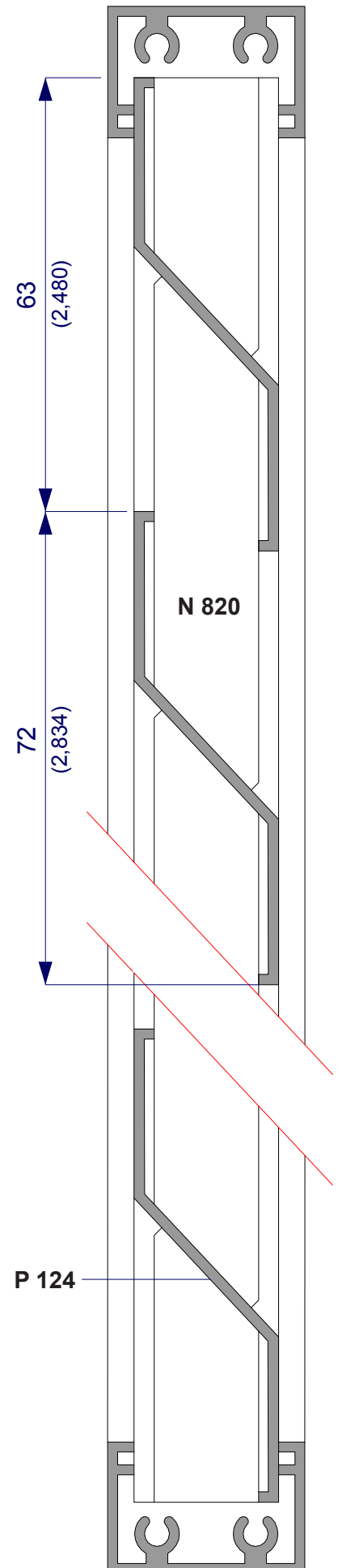
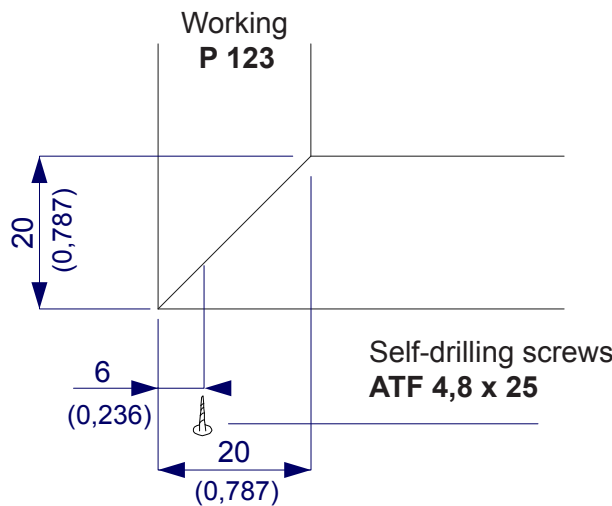
Nylon corners to reinforce
the **P122** frame



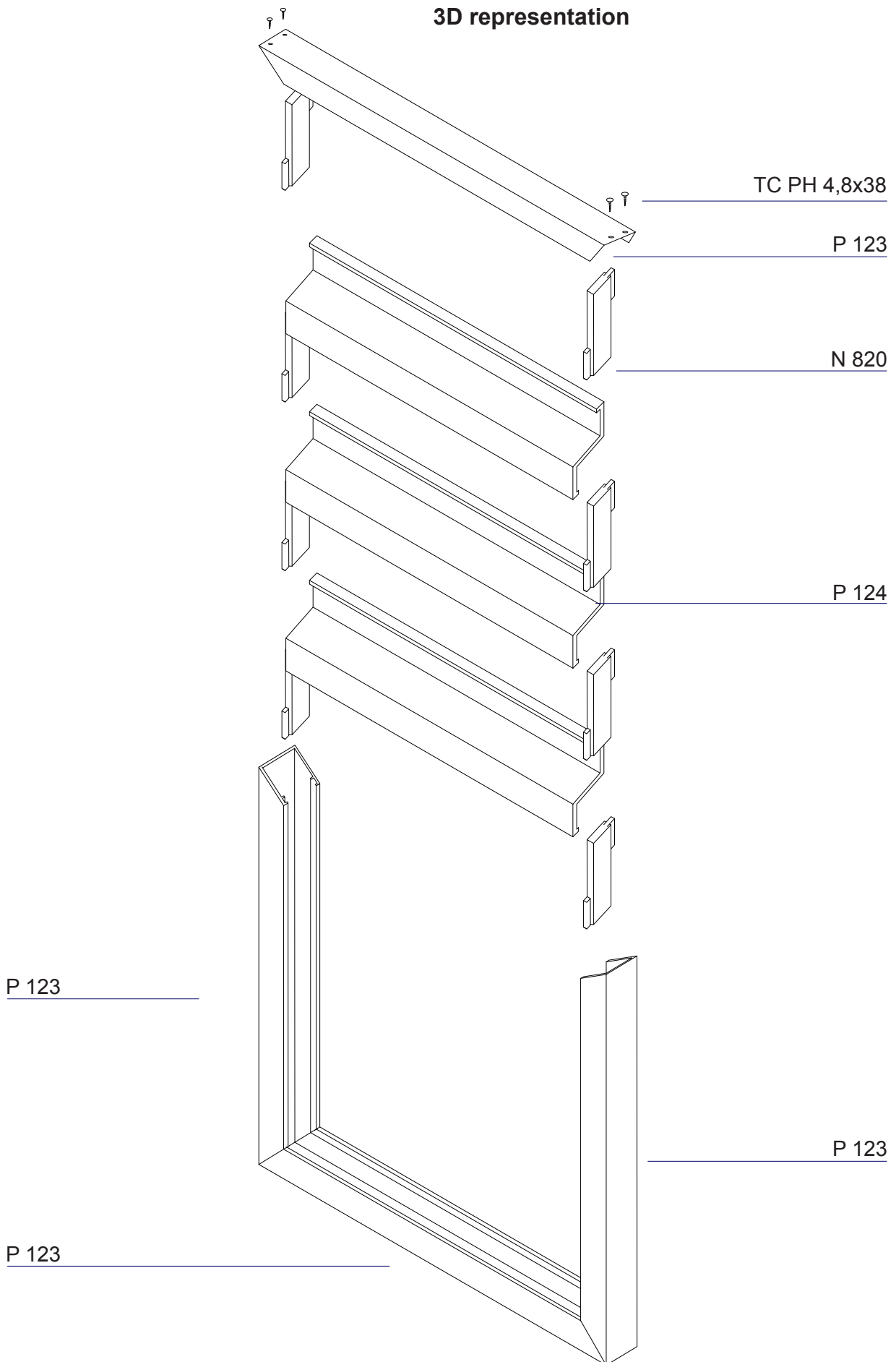
N 810
Box of 400 pcs.



N 820
Box of 450 pcs.



3D representation



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

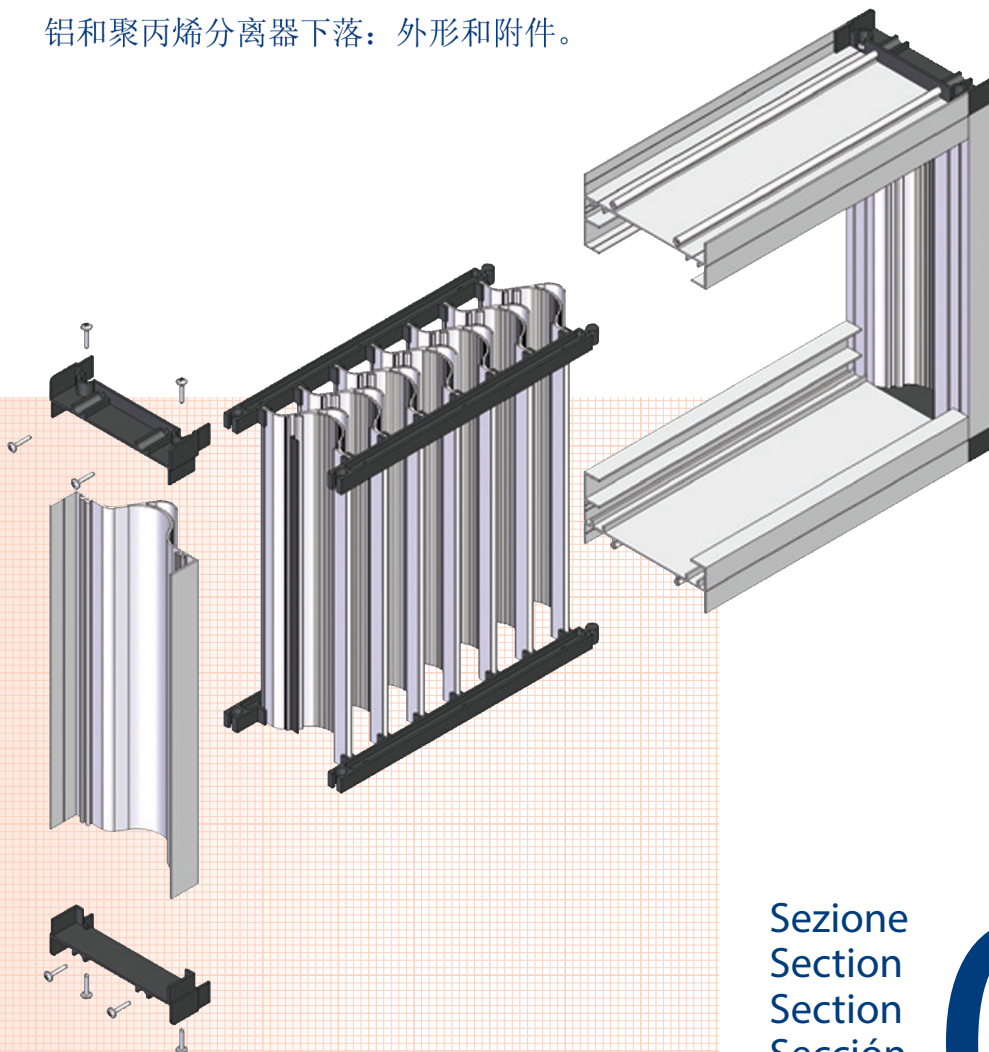
Aluminium, polypropylene and stainless steel profiles and accessories to build mist eliminators.

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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第09号

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.

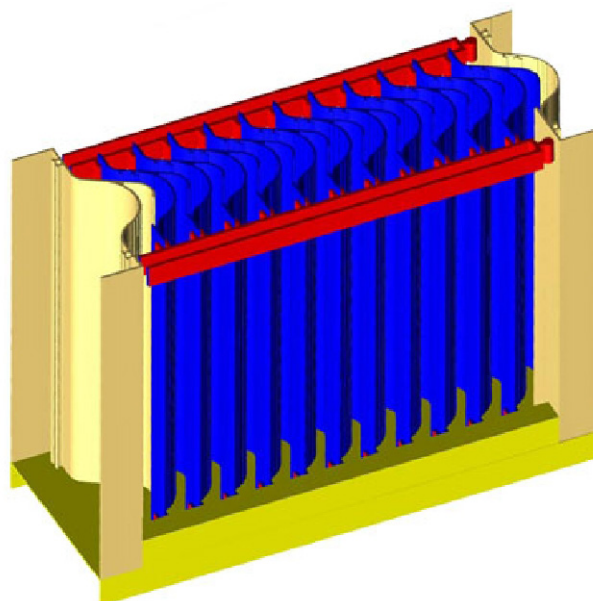
Another important point is that changes in performance are achieved through the variable “comb’s” pitch of 25, 33 or 40 mm.

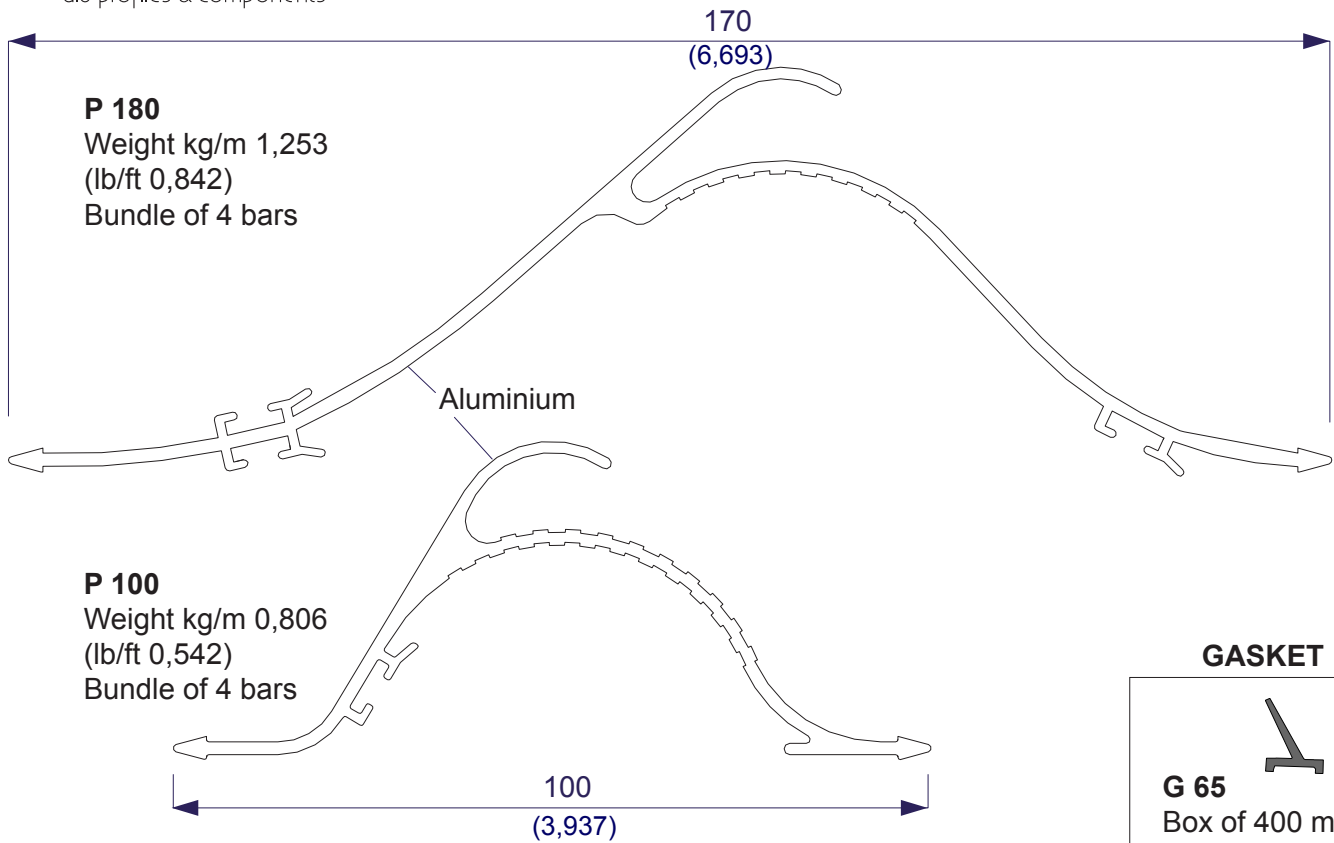
The profiles P 100 and PP 106 can be assembled in their “special” frame by aluminium profiles P 110, P 111, P 112, P 113 with the corner A 140.

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.

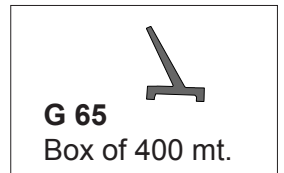
The frame is very easy to assemble and it is solid even though in aluminium.

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.

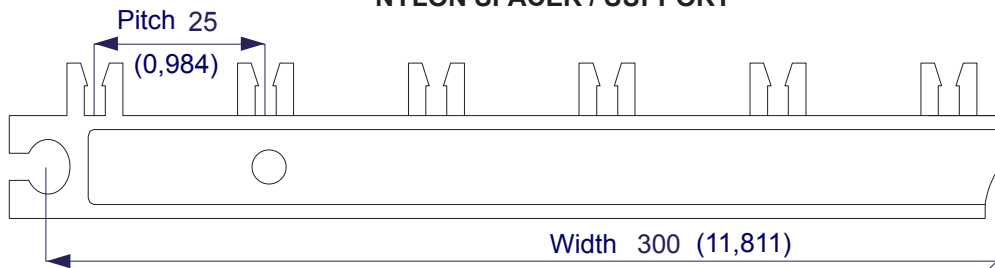




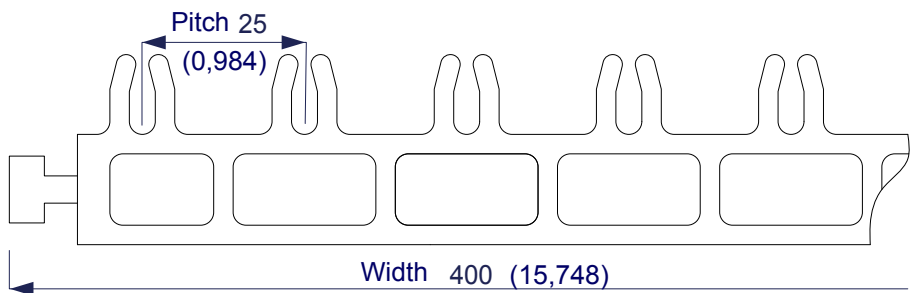
GASKET



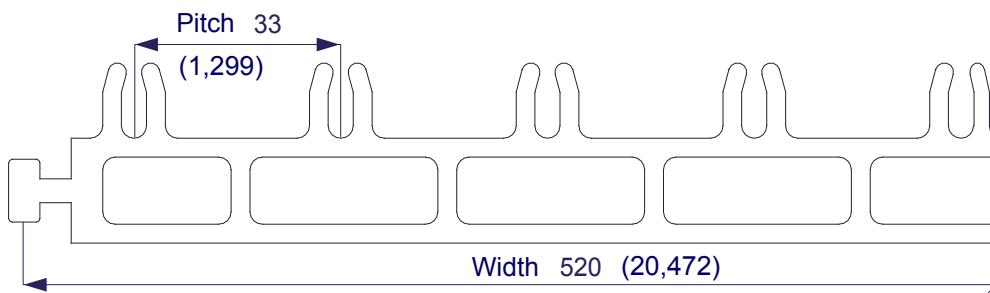
NYLON SPACER / SUPPORT



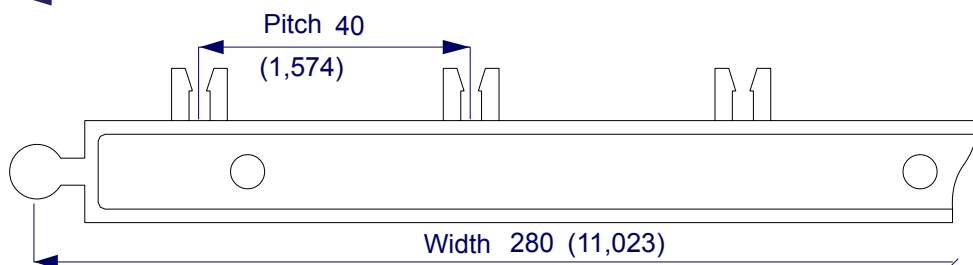
N 900
Box of 100 pcs.



N 901-25
Box of 250 pcs.



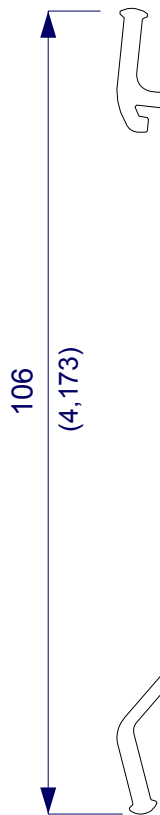
N 901-33
Box of 250 pcs.



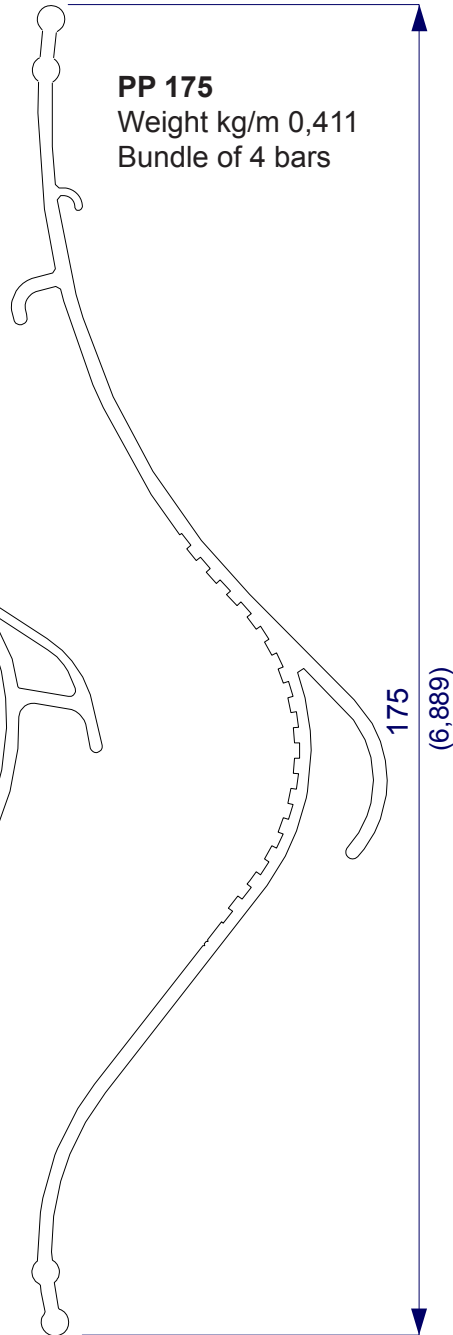
N 826
Box of 100 pcs.

MATERIAL POLYPROPYLENE

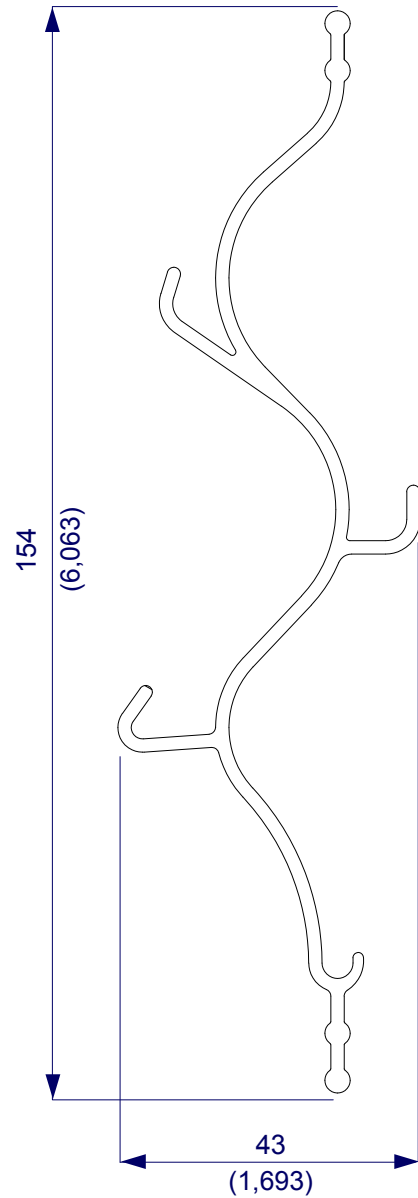
PP 106
Weight kg/m 0,291
Bundle of 4 bars

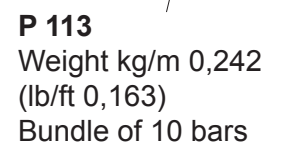
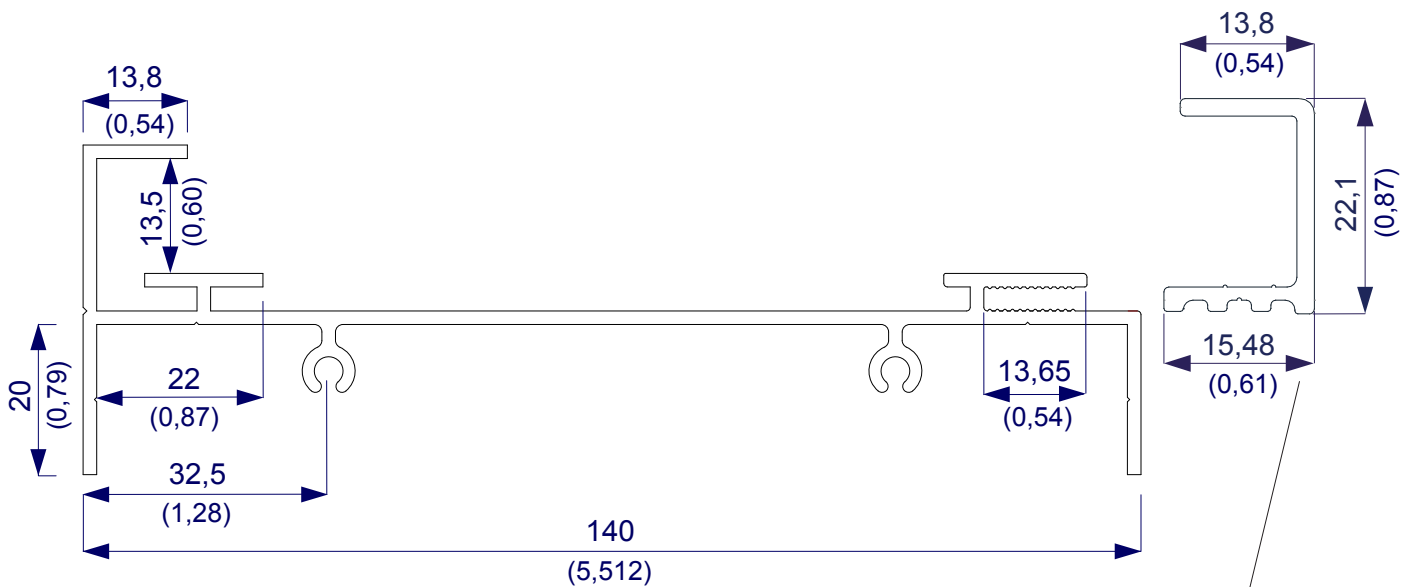
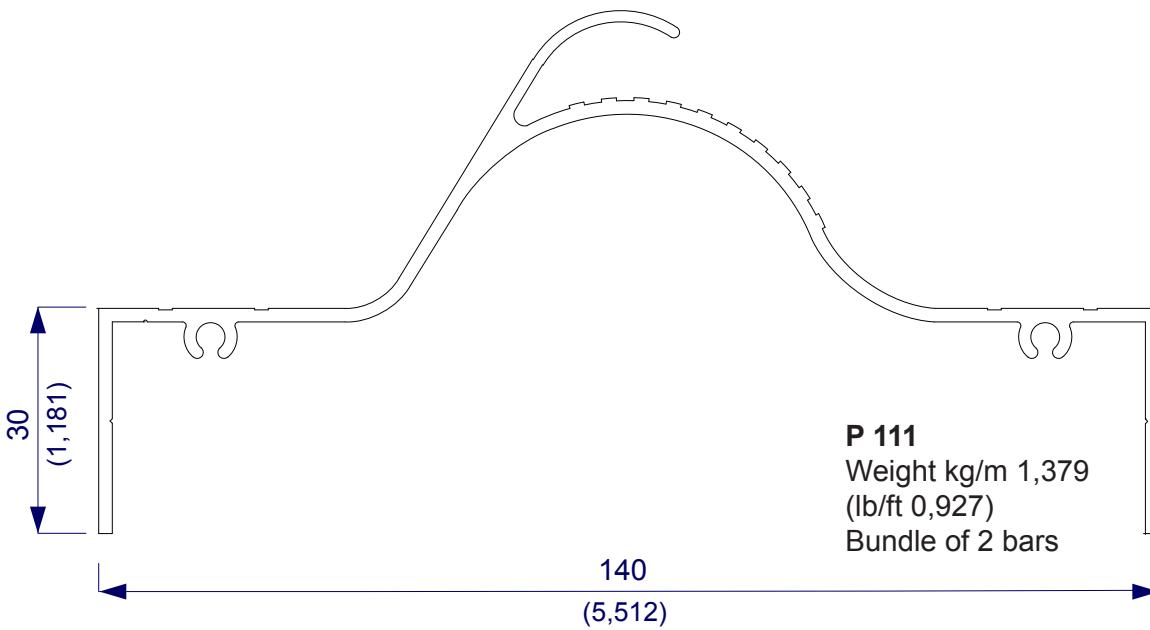
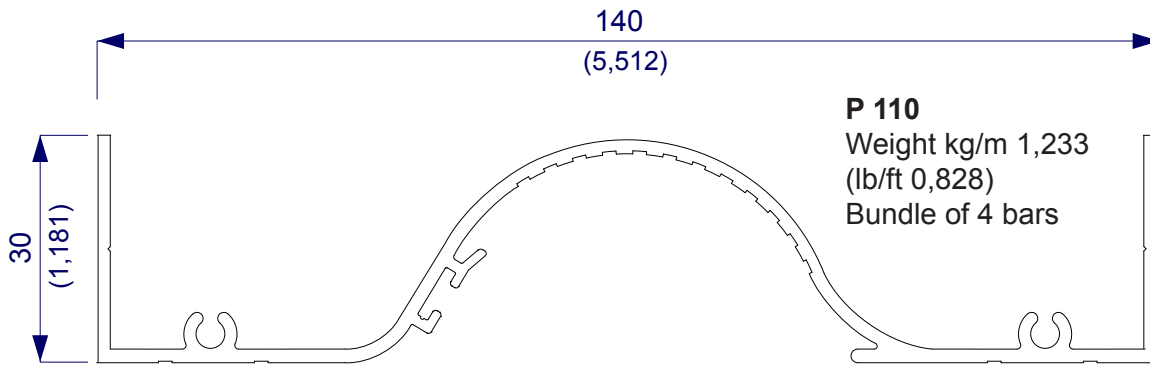


PP 175
Weight kg/m 0,411
Bundle of 4 bars

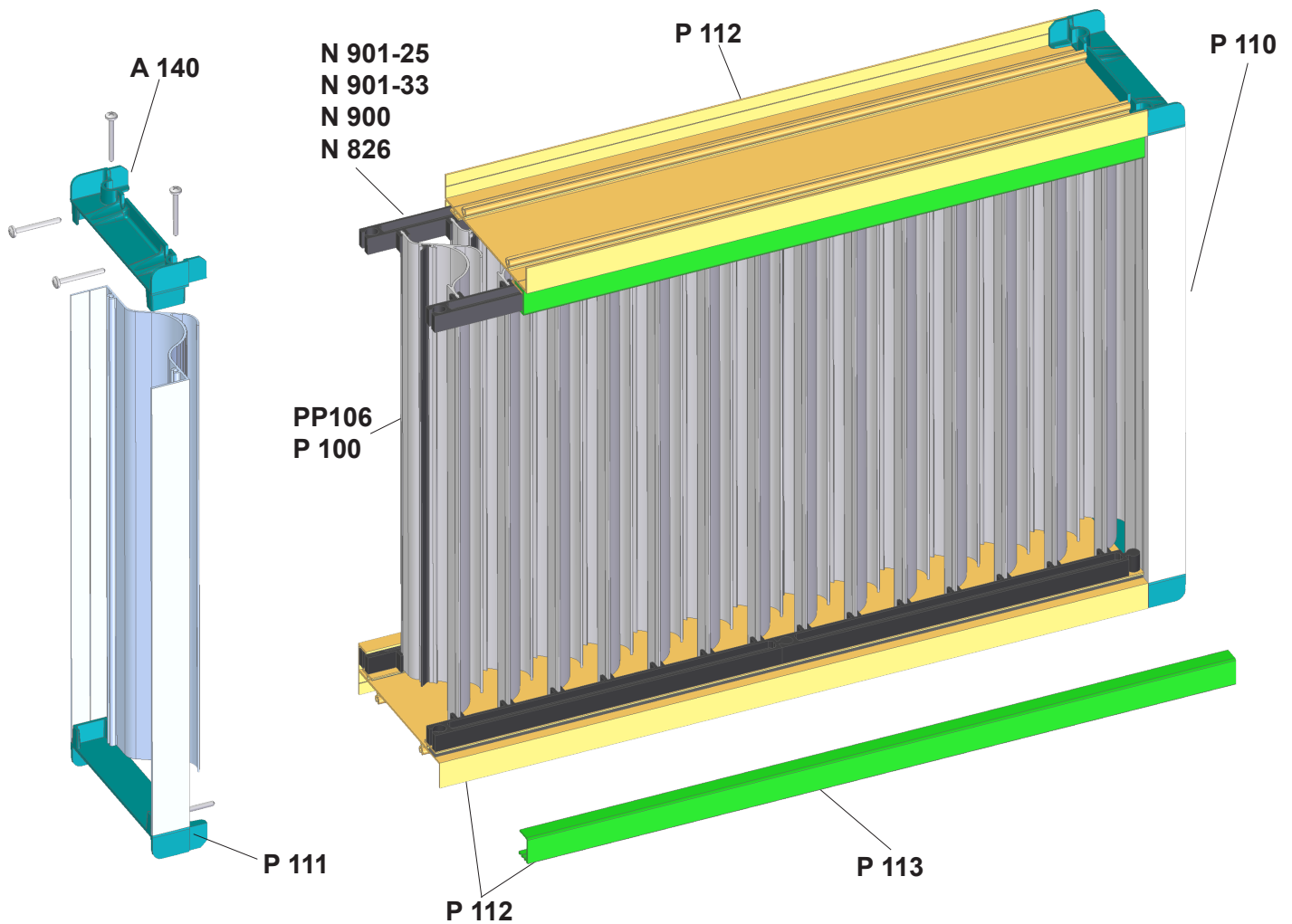


PP 154
Weight kg/m 0,417
Bundle of 4 bars

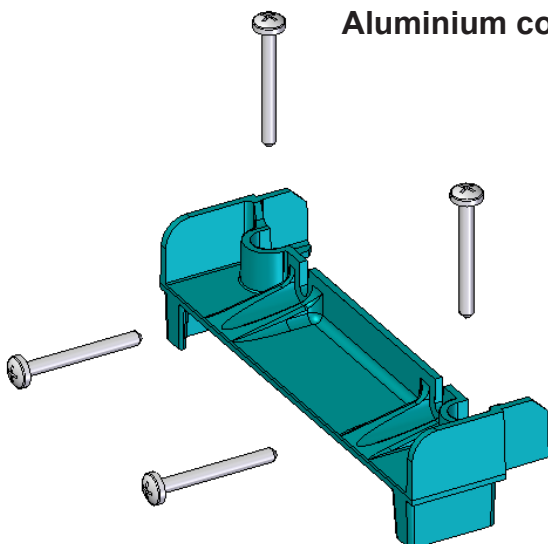




**3D representation of aluminium or polypropylene mist eliminator
assembled with the “special” frame P 110, P 111, P 112, P 113.**



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) = $E \times 4$

Number of blades PITCH 25 (N 901-25)

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

Number of combs

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

Number of combs (N 901-25) = $E \times 4$

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) = $E \times 4$

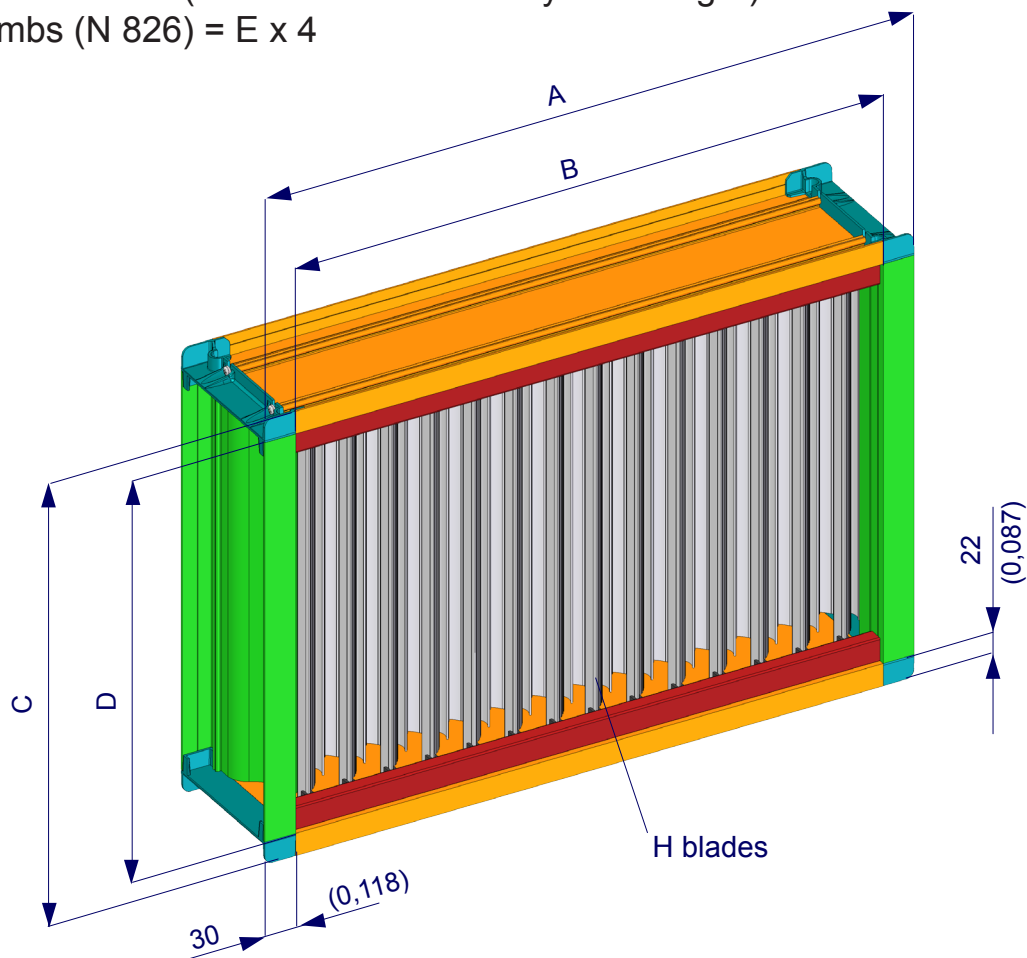
Number of blades PITCH 40 (N 826)

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

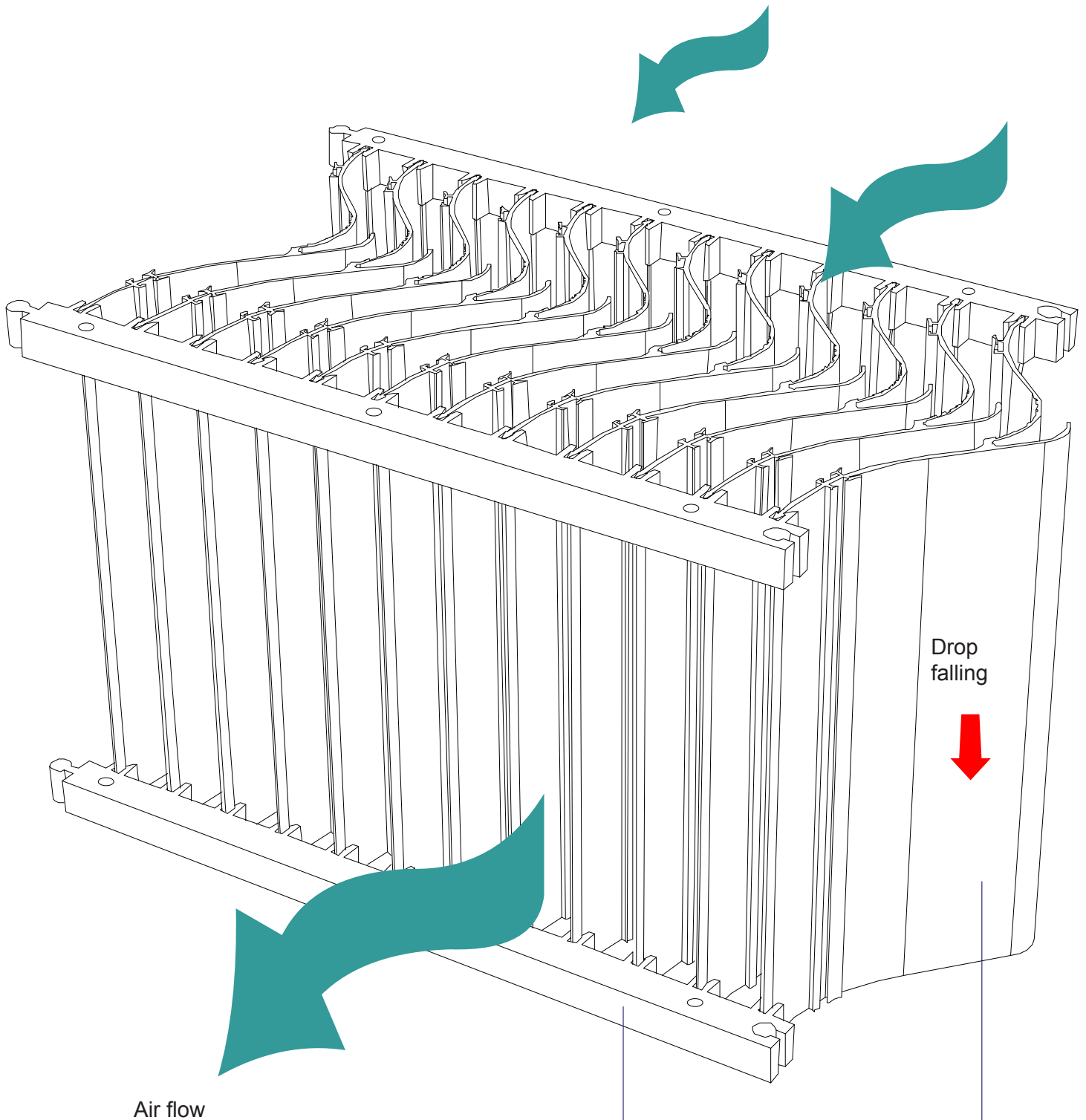
Number of combs

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

Number of combs (N 826) = $E \times 4$



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



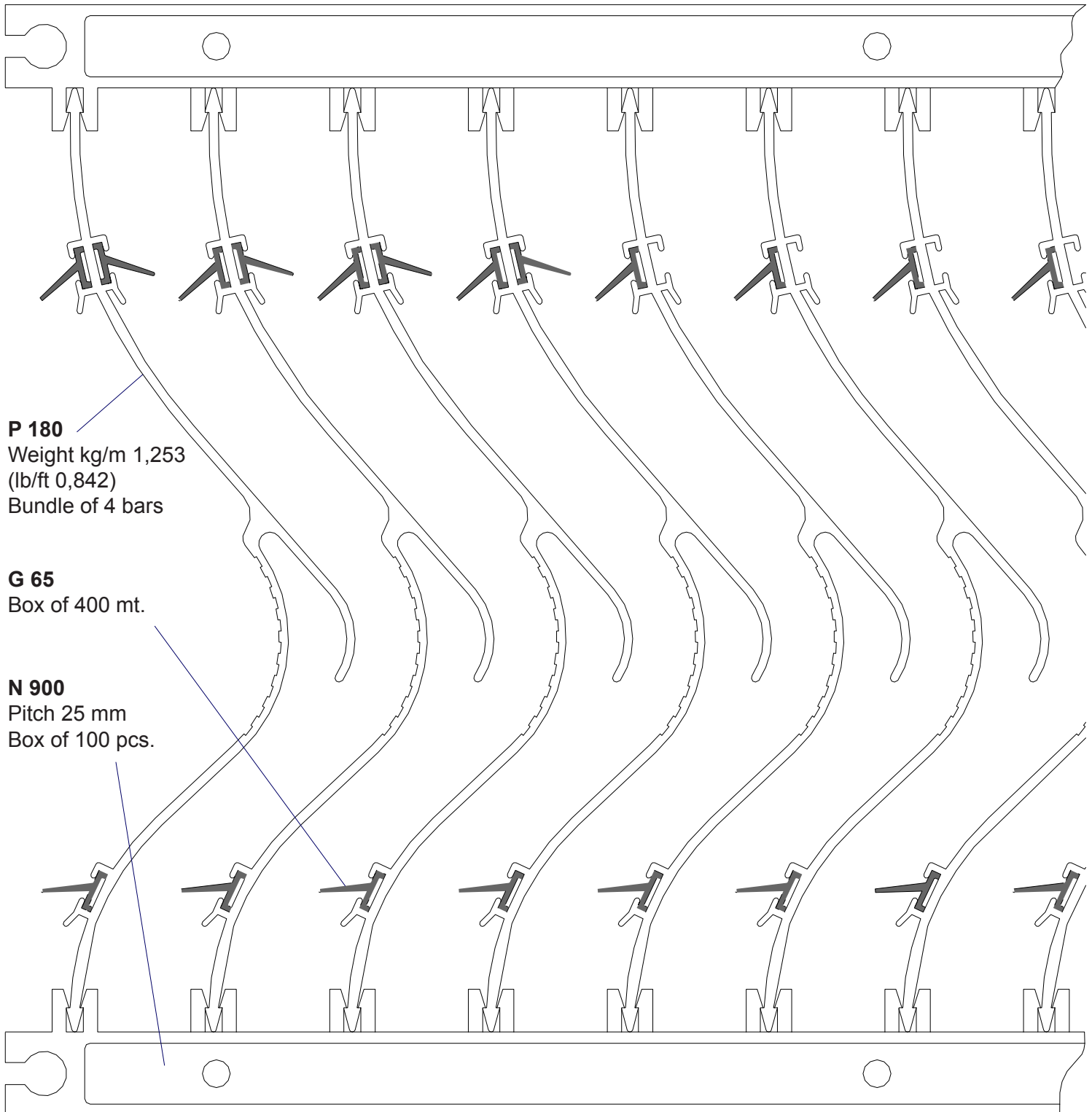
Air flow

Drop
falling

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.

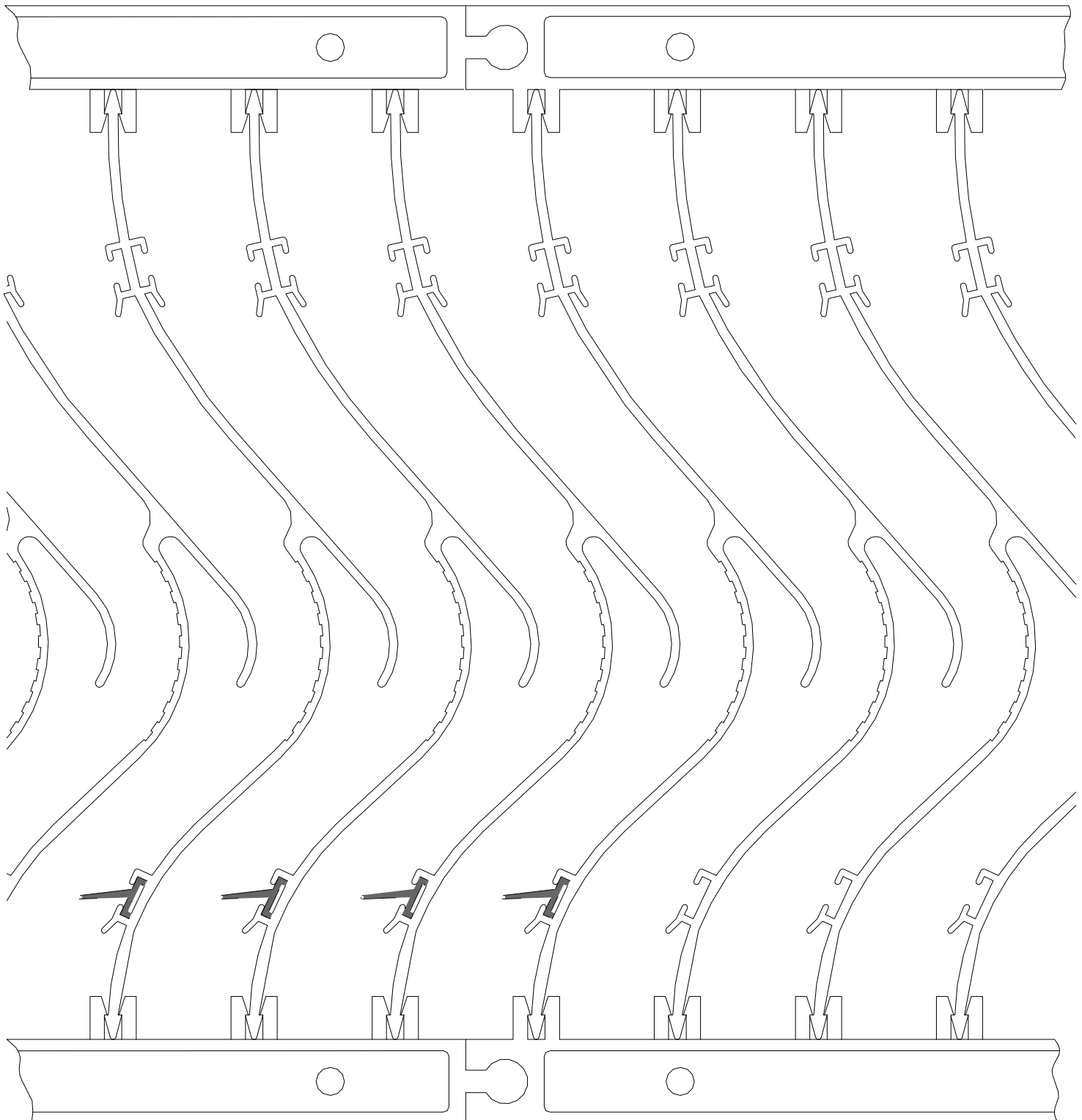
Way A

- 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



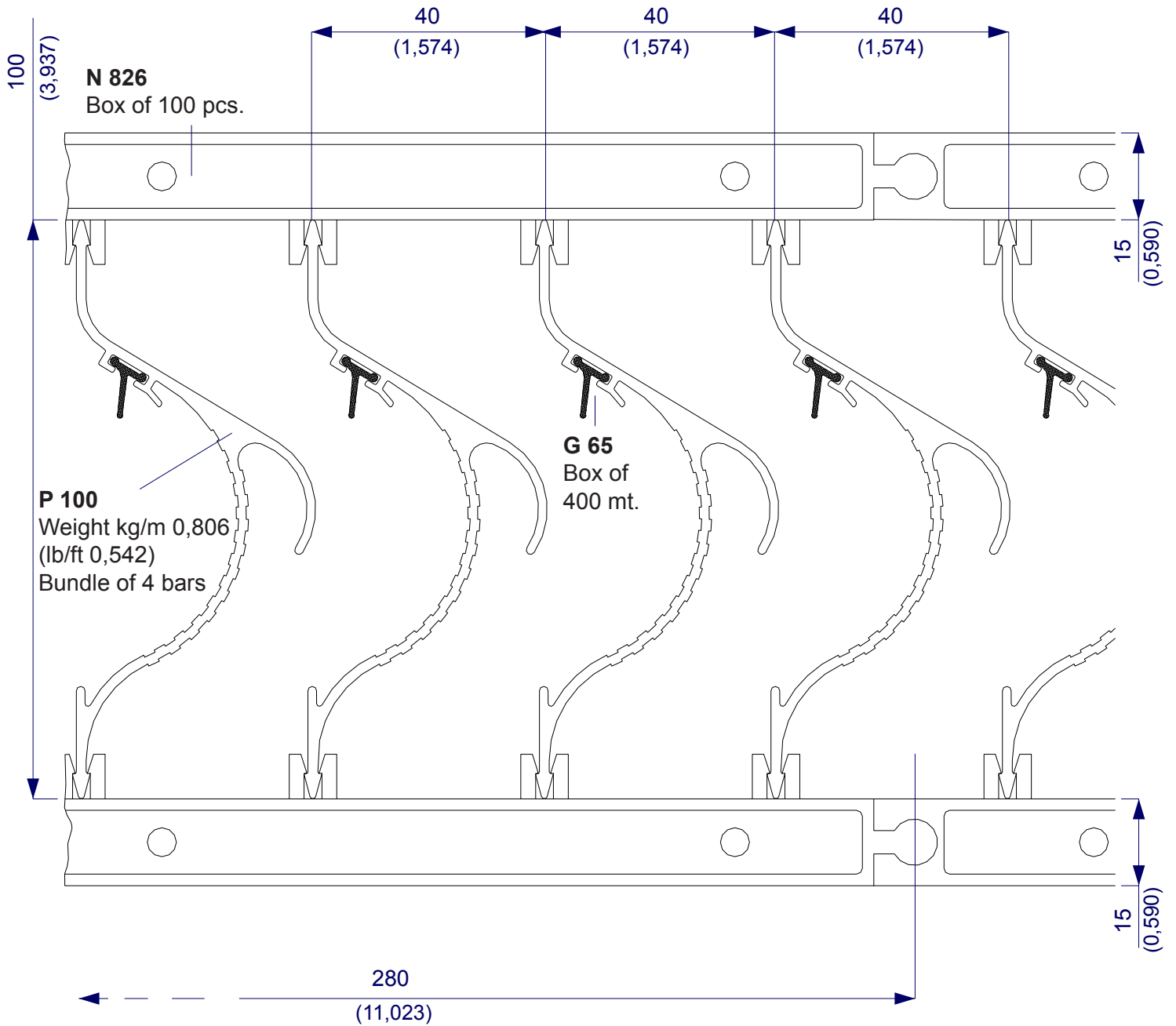
Way C

- 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.

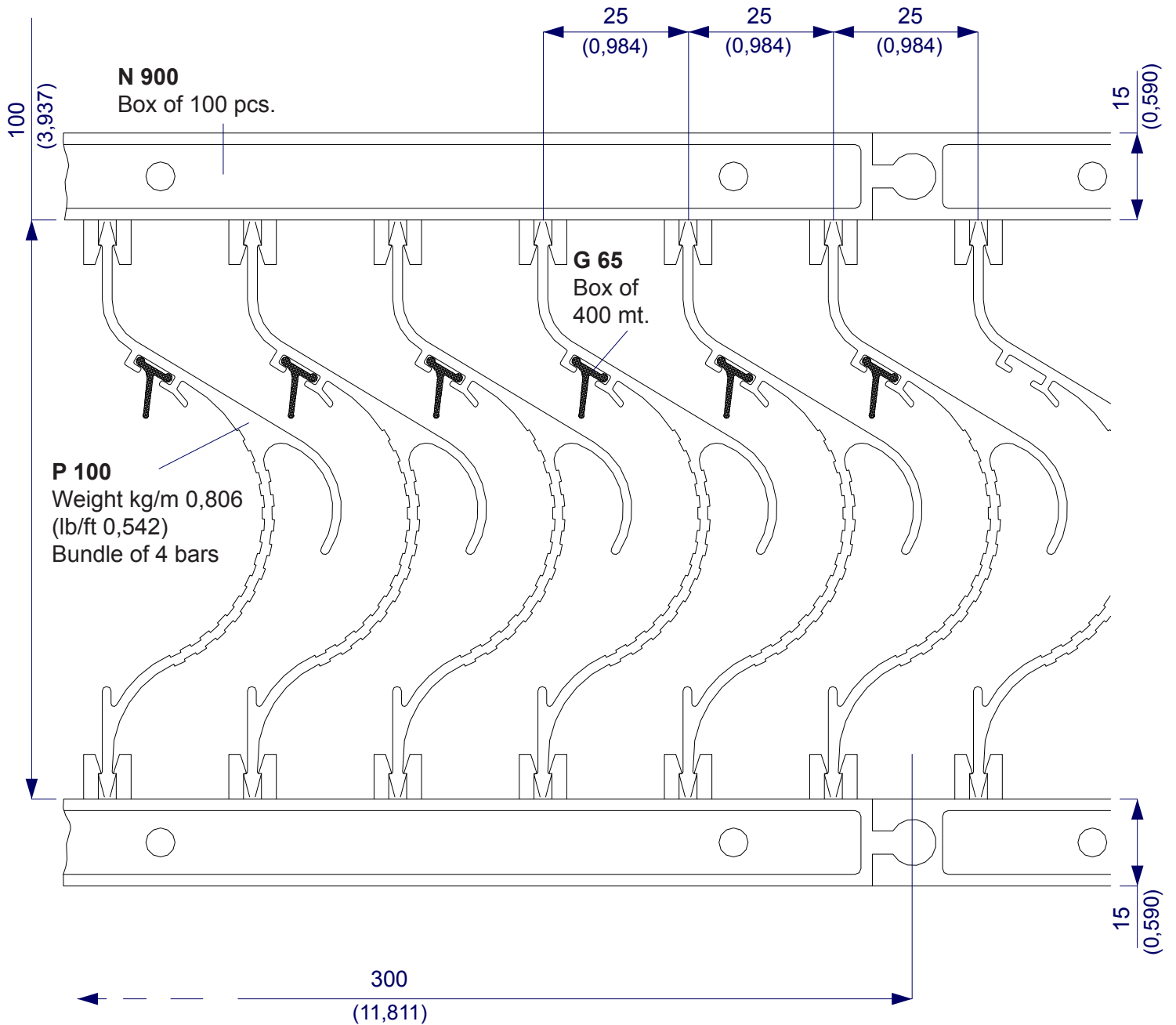
Way D

- 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.

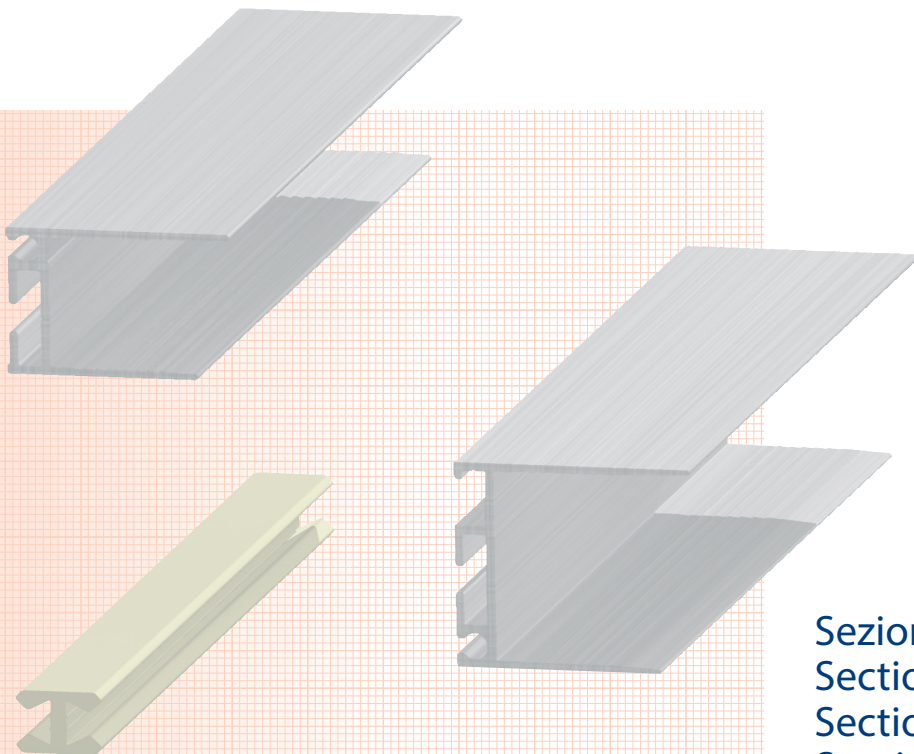
Aluminium air duct profiles and accessories.

Profils aluminium et accessoires pour canalisation.

Perfiles en aluminio y accesorios para la canalización del aire.

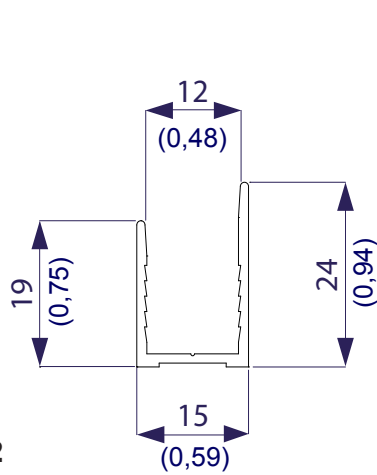
Aluminium Luftkanal Profilen und Zubehör.

铝外形为凹线。

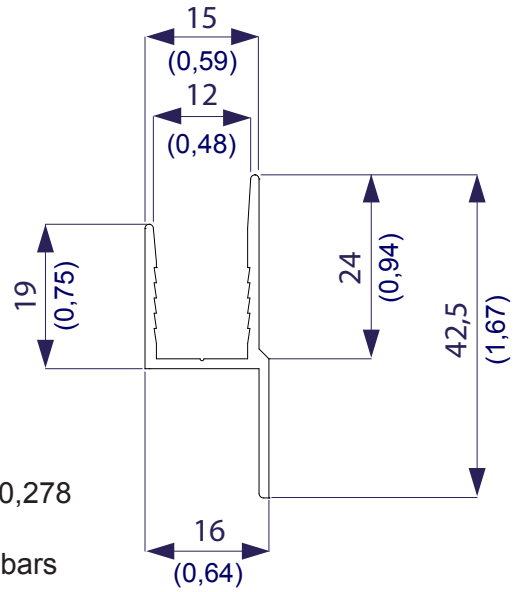


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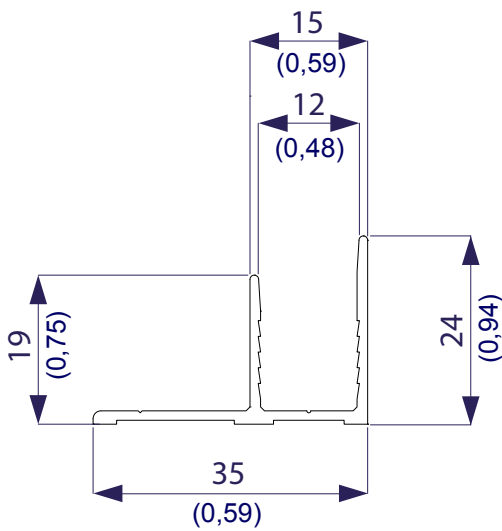
10



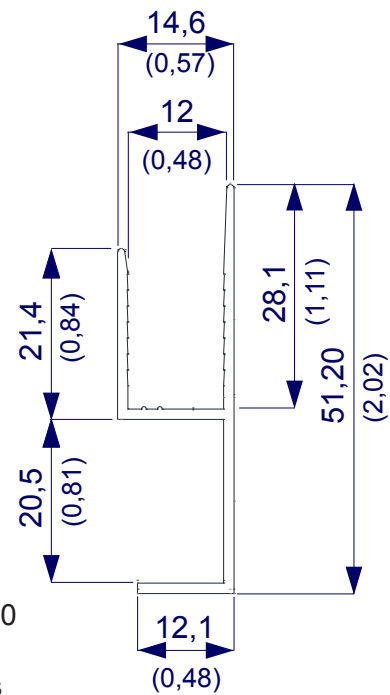
P 152-12
Weight kg/m 0,192
(lb/ft 0,129)
Bundle of 10 bars



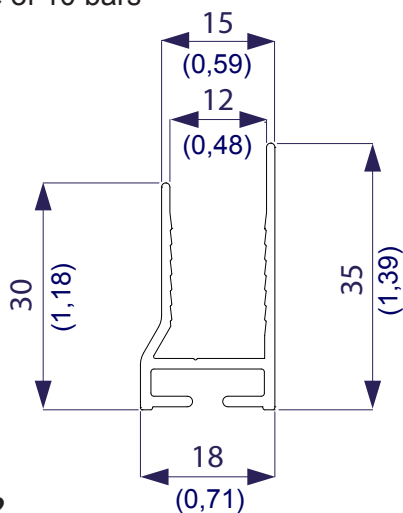
P 153-12
Weight kg/m 0,278
(lb/ft 0,187)
Bundle of 10 bars



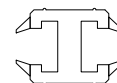
P 154-12
Weight kg/m 0,265
(lb/ft 0,178)
Bundle of 10 bars



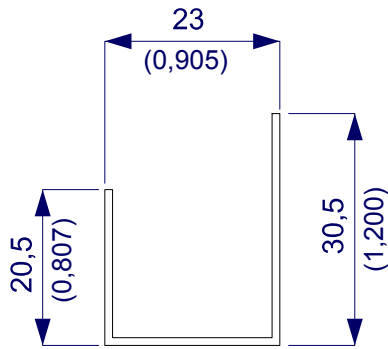
P 158-12
Weight kg/m 0,330
(lb/ft 0,222)
Bundle of 10 bars



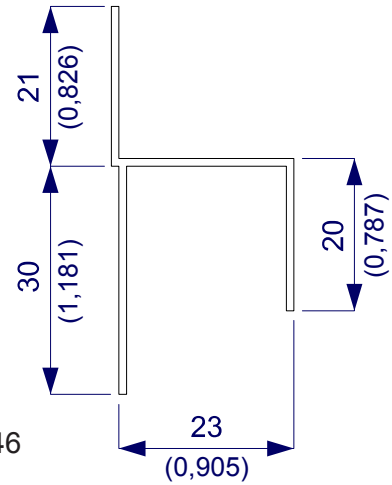
P 161-12
Weight kg/m 0,326
(lb/ft 0,219)
Bundle of 10 bars



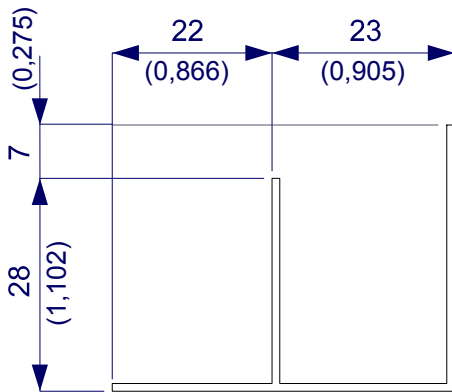
PVC 161-G
Bundle of 10 bars



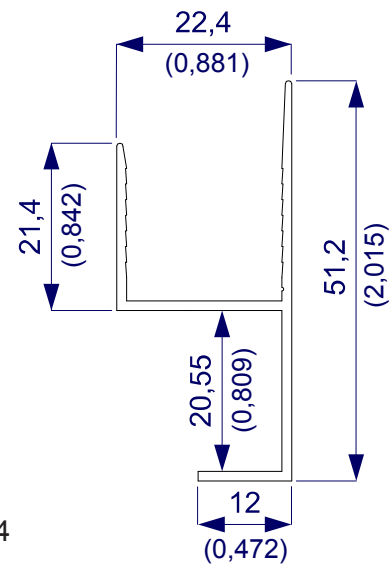
P 152
Weight kg/m 0,271
(lb/ft 0,182)
Bundle of 10 bars



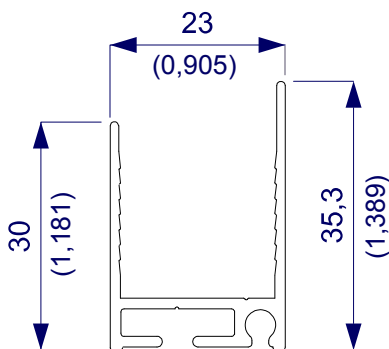
P 153
Weight kg/m 0,346
(lb/ft 0,232)
Bundle of 10 bars



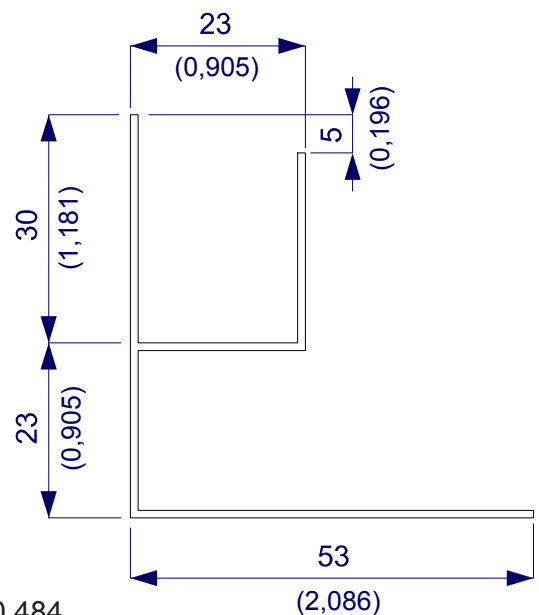
P 154
Weight kg/m 0,394
(lb/ft 0,265)
Bundle of 10 bars



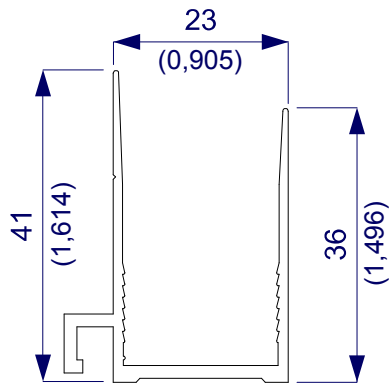
P 158
Weight kg/m 0,334
(lb/ft 0,225)
Bundle of 10 bars



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

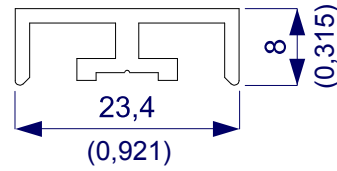


P 160
Weight kg/m 0,484
(lb/ft 0,325)
Bundle of 4 bars



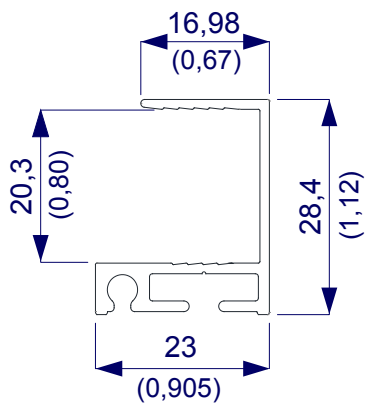
P 155

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



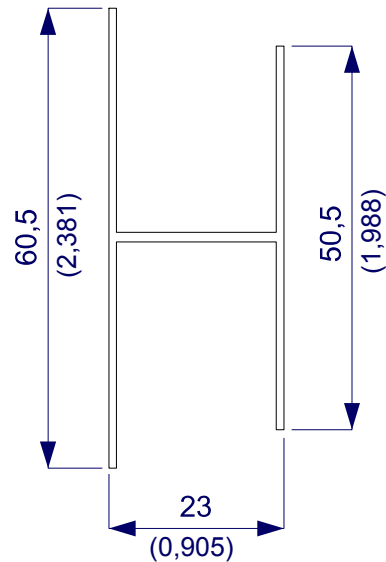
P 156

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



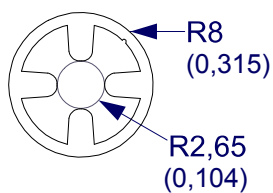
P 157

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



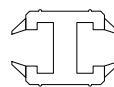
P 159

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



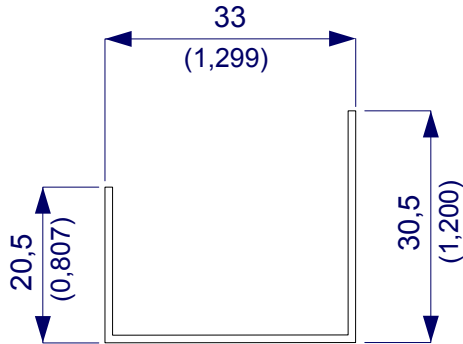
P 162

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

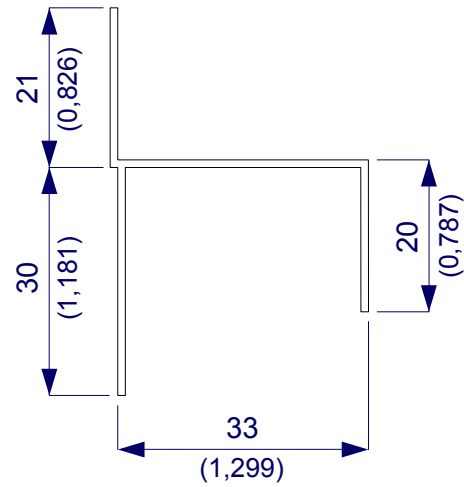


PVC 161-G

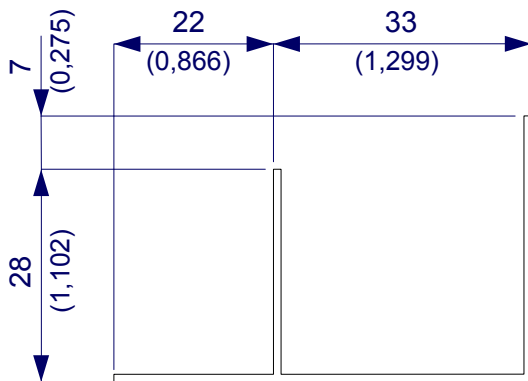
Bundle of 10 b.



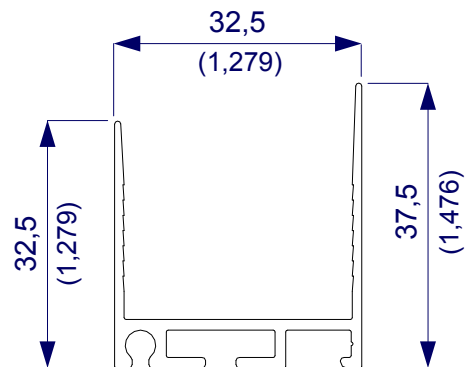
P 152-30
Weight kg/m 0,275
(lb/ft 0,185)
Bundle of 10 bars



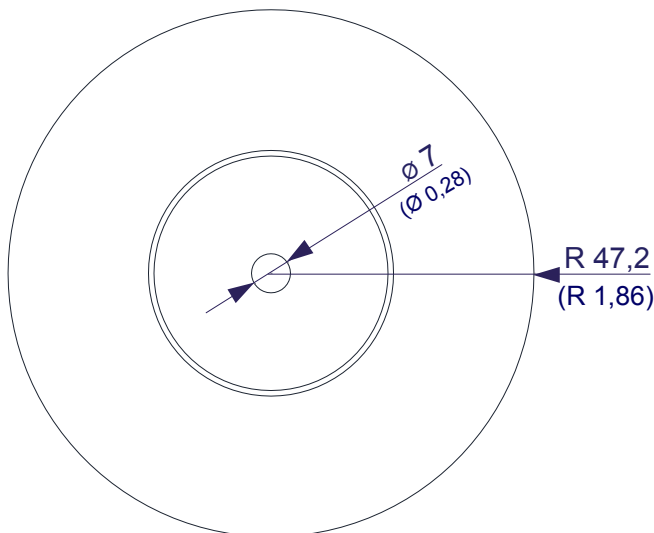
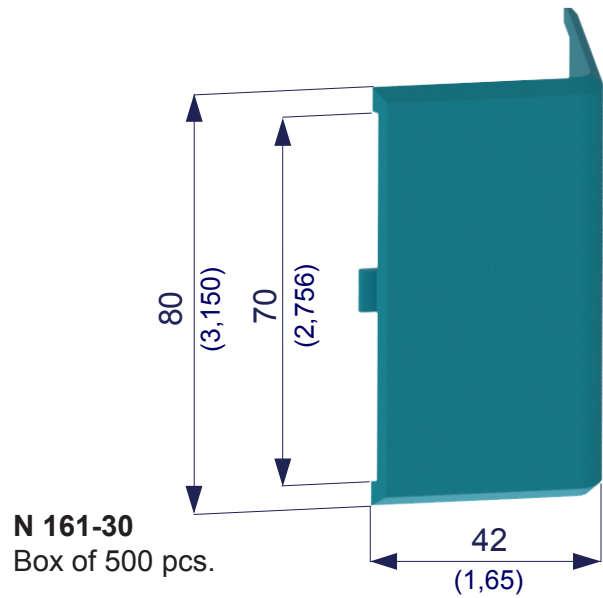
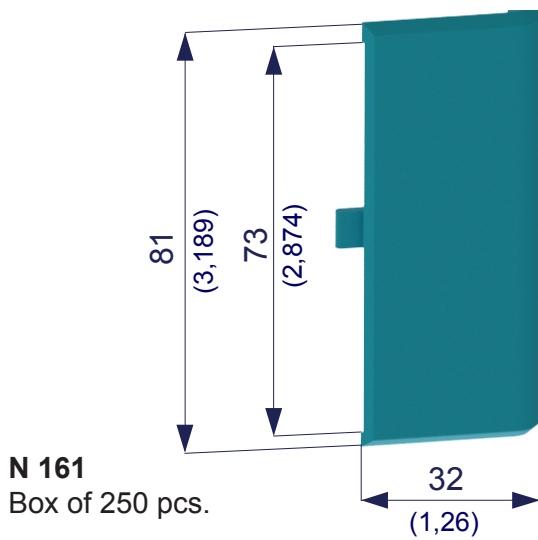
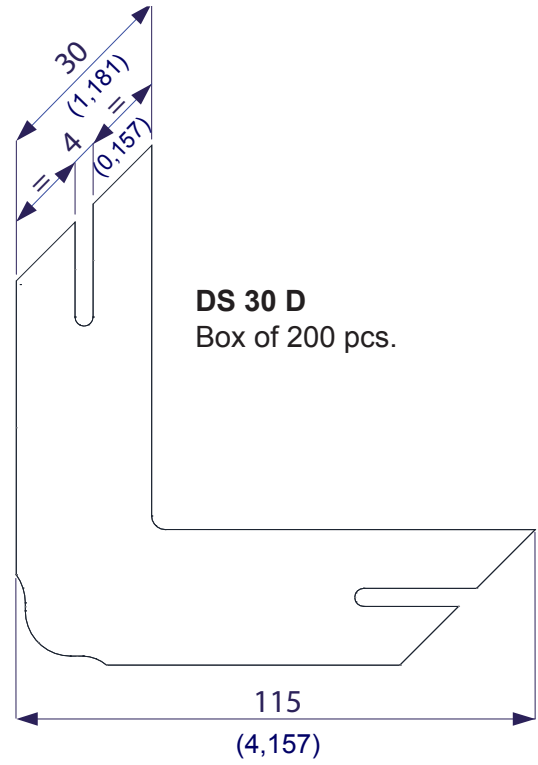
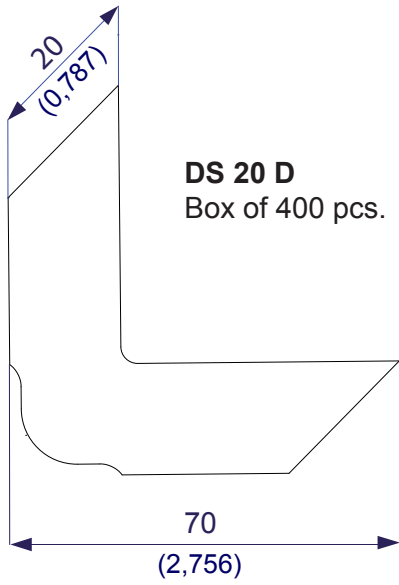
P 153-30
Weight kg/m 0,342
(lb/ft 0,330)
Bundle of 10 bars



P 154-30
Weight kg/m 0,386
(lb/ft 0,260)
Bundle of 10 bars



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



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

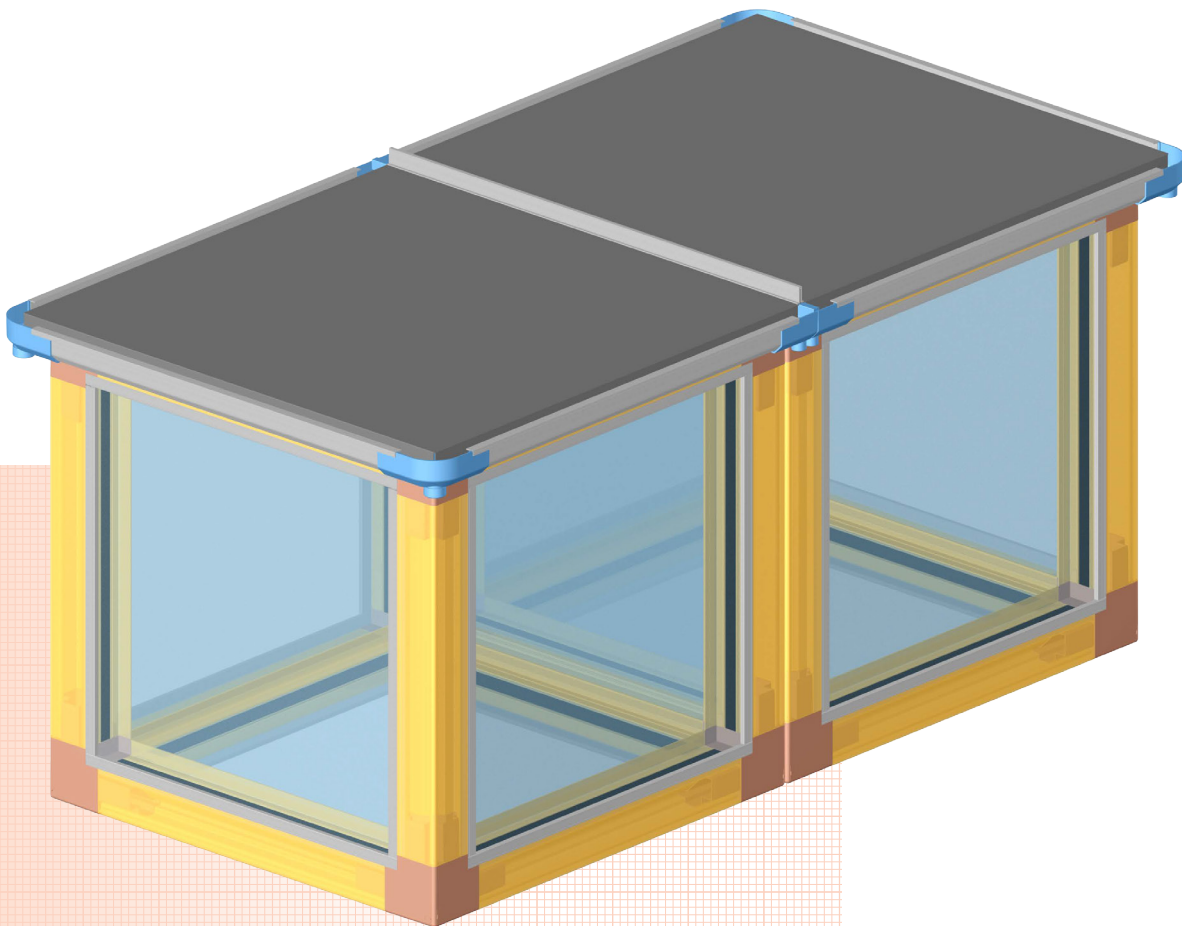
NS

Sistema tetto.

Roof system.

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

Dachssystem.

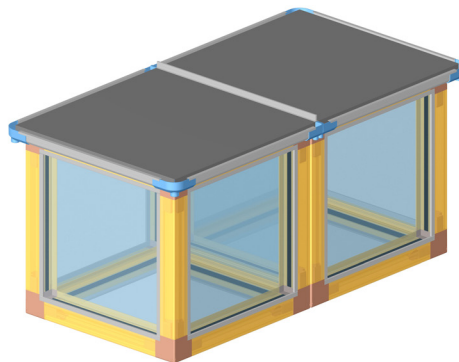


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1 1

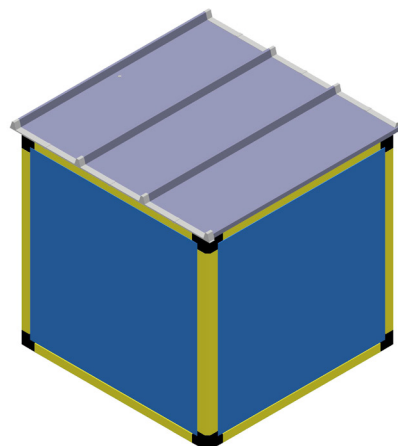
ROOF SYSTEM 1 - TOP OF THE RANGE

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.

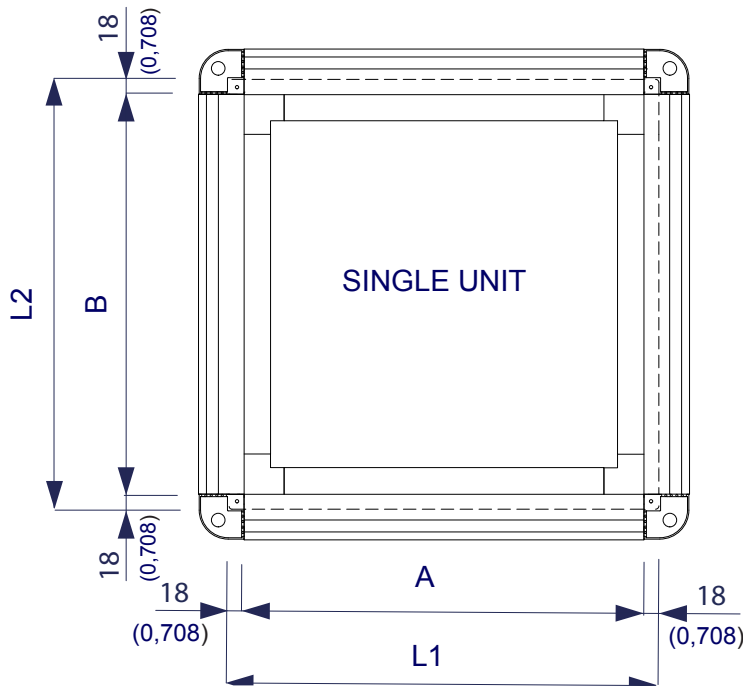


ROOF SYSTEM 2

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.



SINGLE UNIT



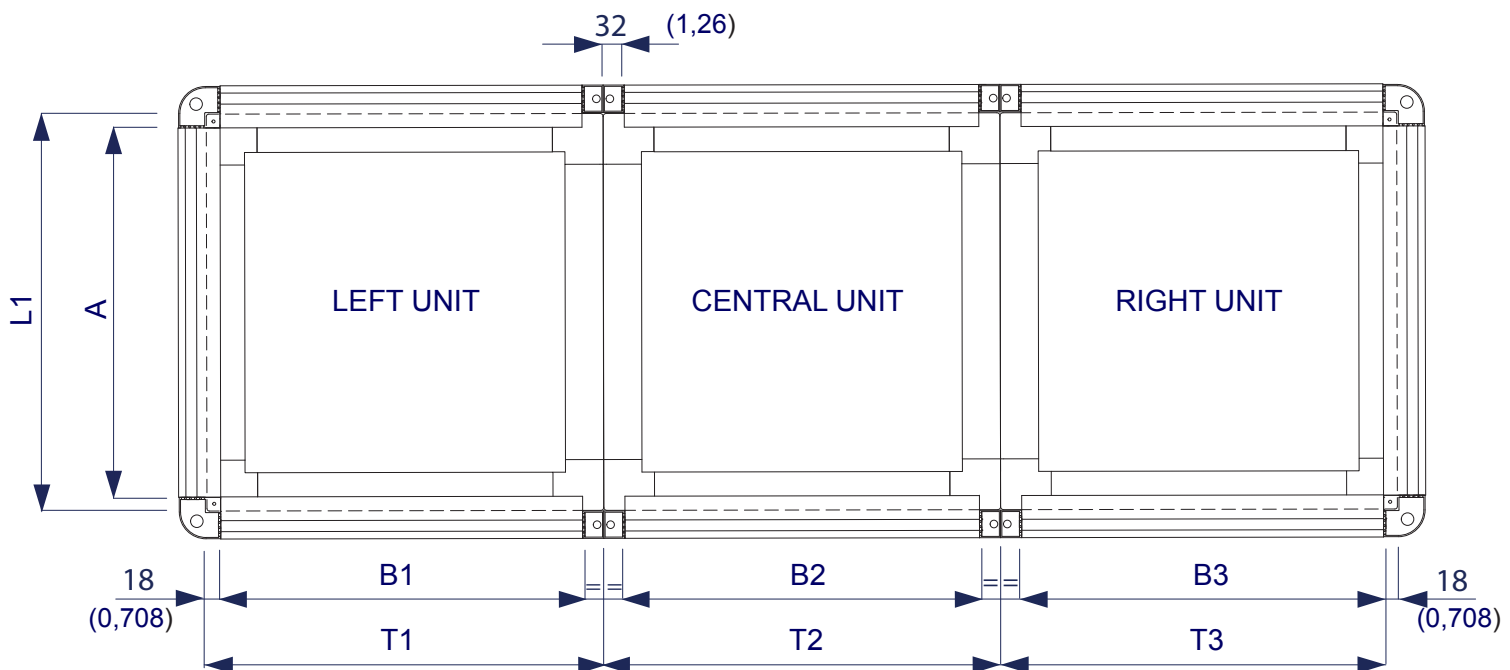
GENERAL RULES

$$A = L_1 - 36 \text{ mm}$$

$$B = L_2 - 36 \text{ mm}$$

L_1 = external dim. of unit
 L_2 = external dim. of unit

MULTIPLE UNIT



GENERAL RULES

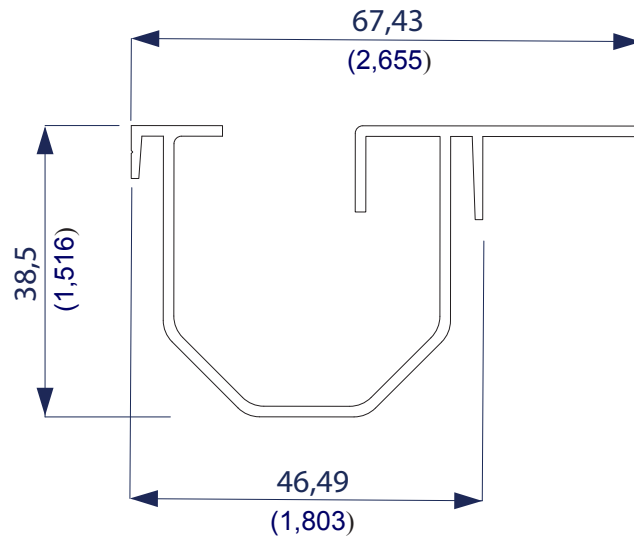
$$A = L_1 - 36 \text{ mm}$$

$$B_1 = T_1 - (50 \text{ mm} - 3 \text{ mm})$$

$$B_2 = T_2 - (64 \text{ mm} - 2,5 \text{ mm})$$

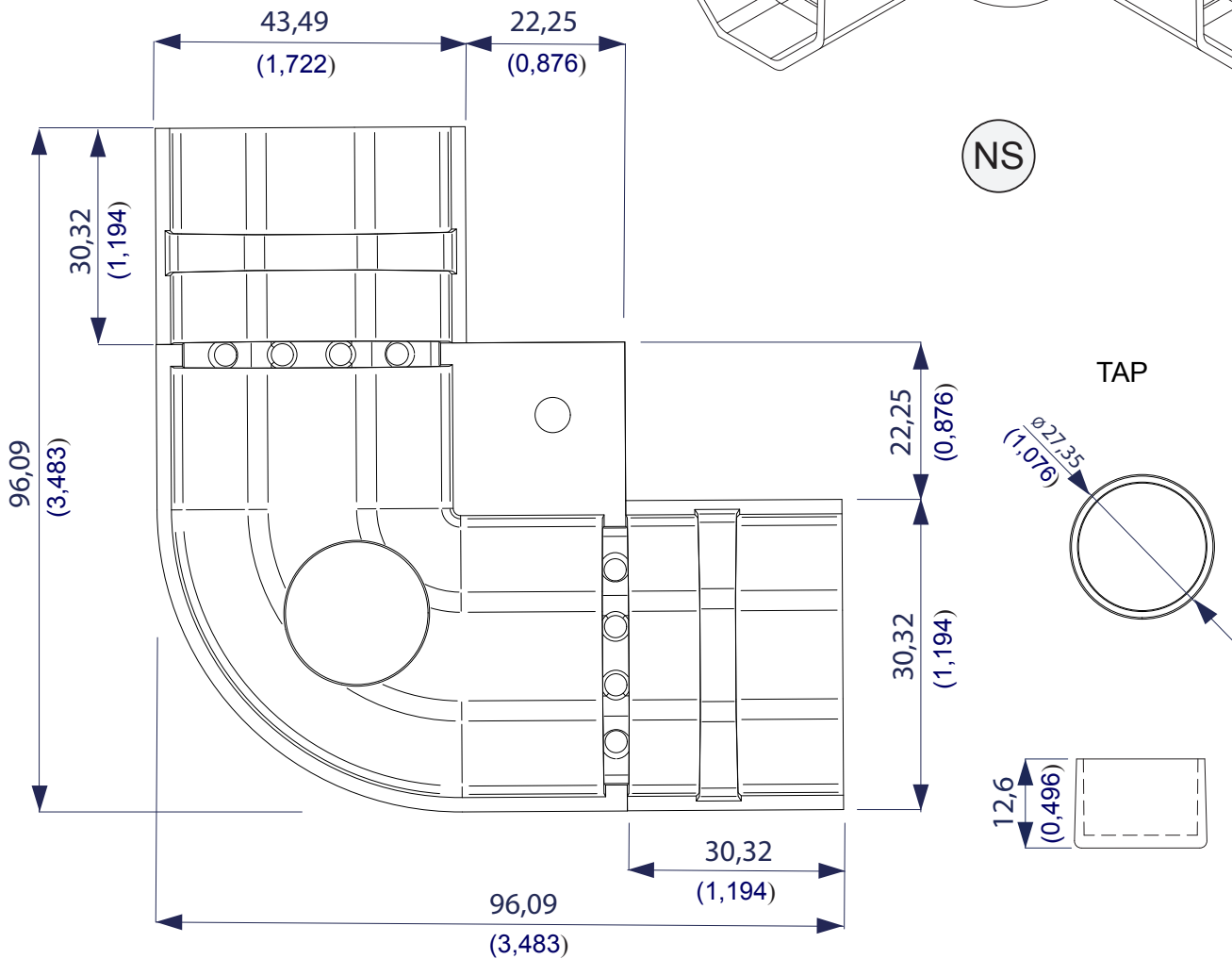
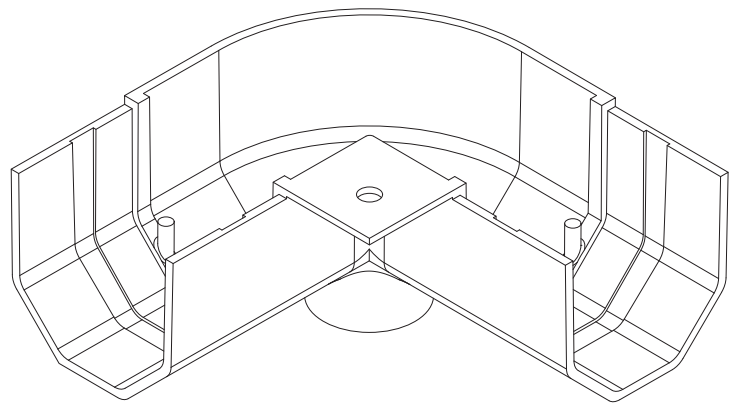
$$B_3 = T_3 - (50 \text{ mm} - 3 \text{ mm})$$

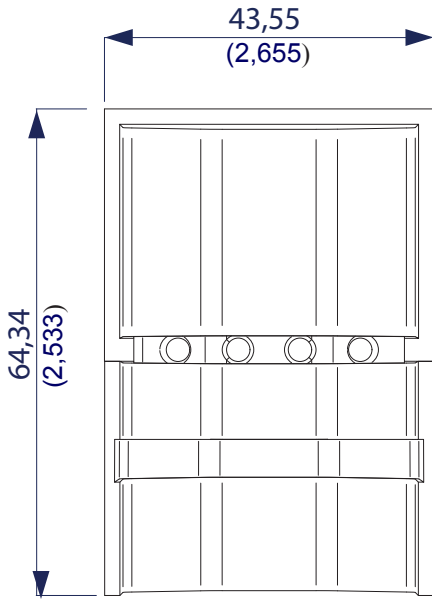
T_1, T_2, T_3 = external dim. of unit
 L_1 = external dim. of unit



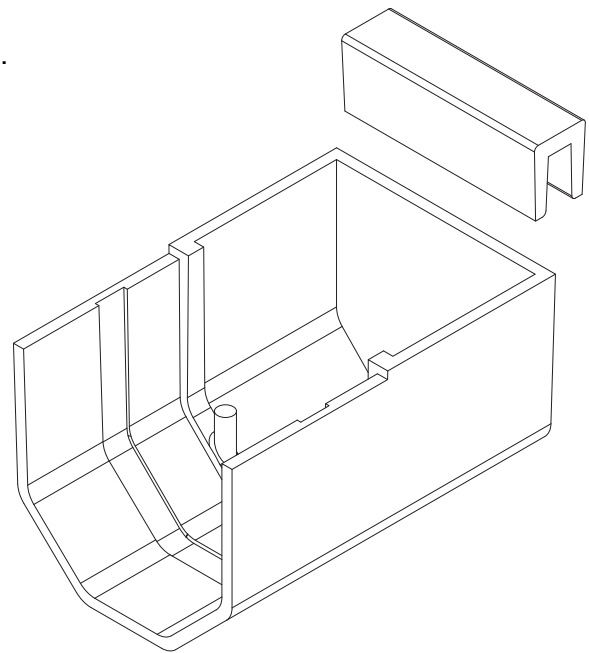
PR001
Weight kg/m 0,656

NR001
Box of 48 pcs.

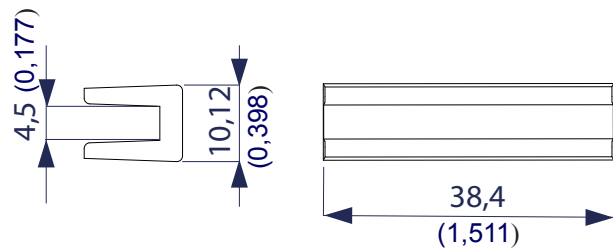
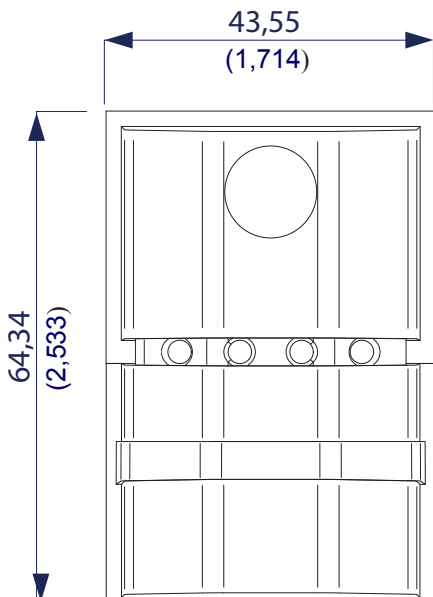




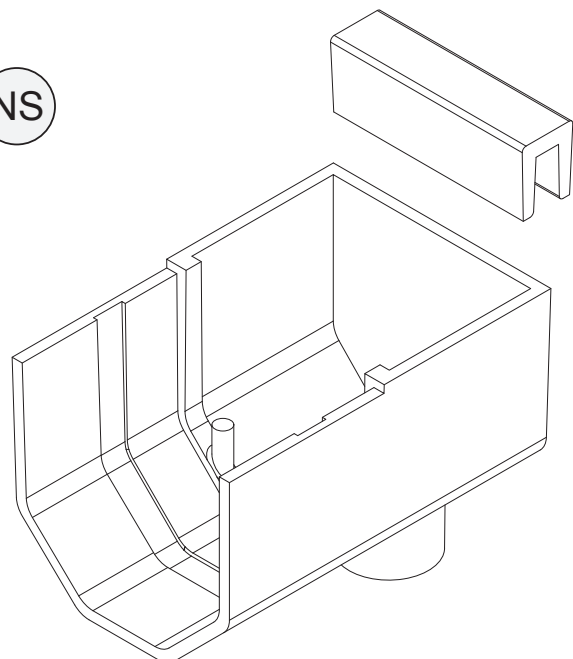
NR 001 JP-B
Box of 150 pcs.



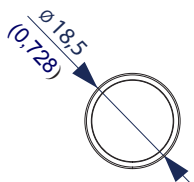
NR 001 JP-D
Box of 150 pcs.

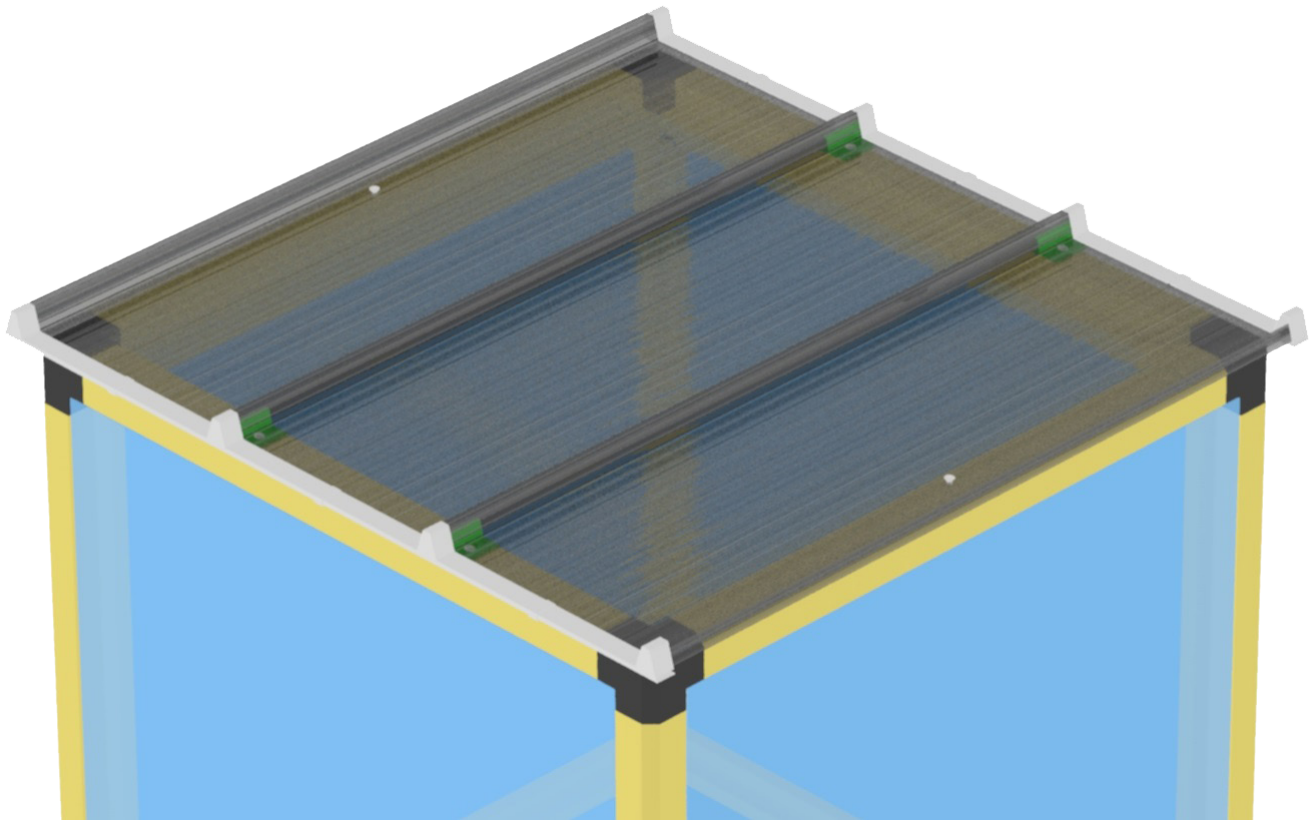


NS

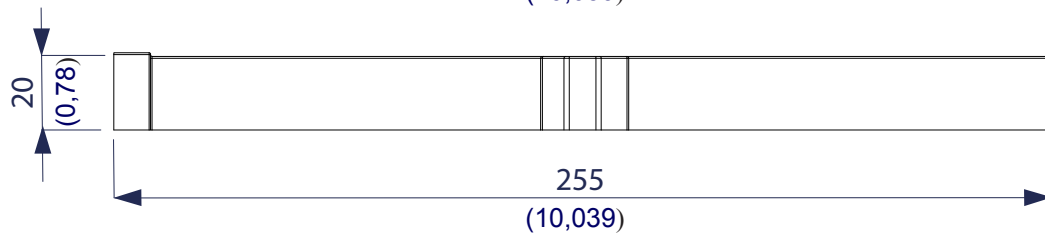
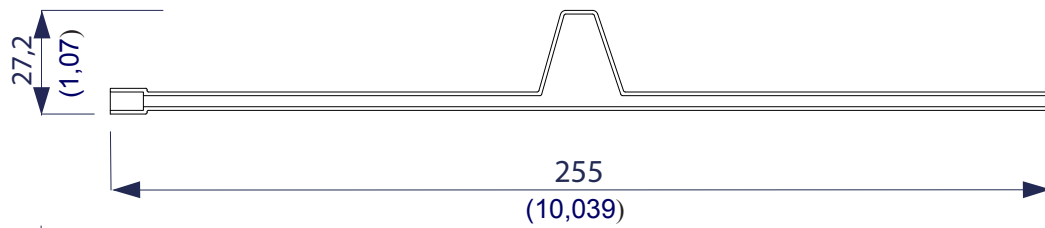


TAP



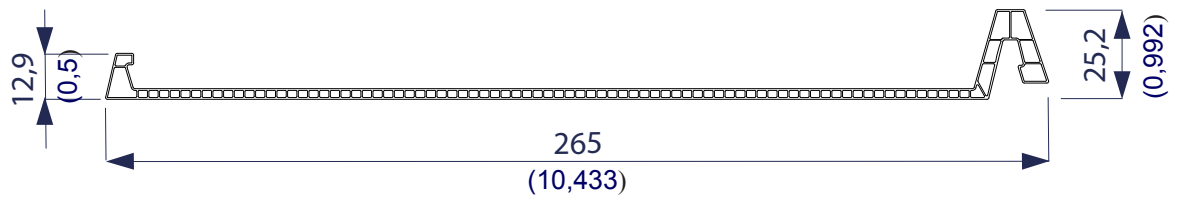


NCR1
Box of 48 pcs.

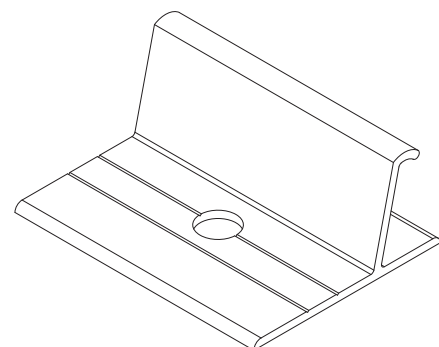
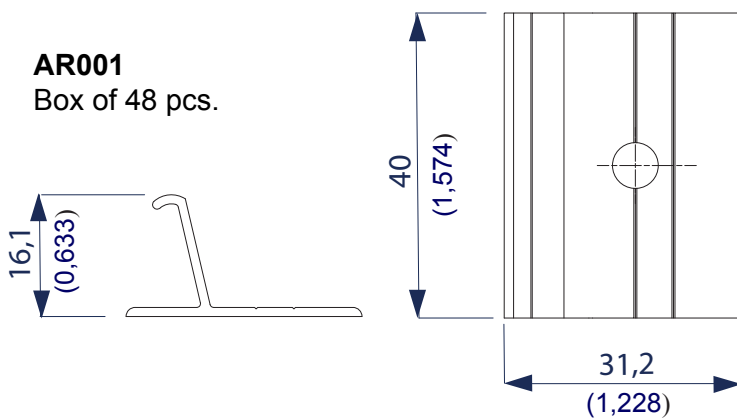


PCR 2553-2

Sheets l= 4 mt



AR001
Box of 48 pcs.



Profili di alluminio commerciali. Lamiere di alluminio grezze e preverniciate

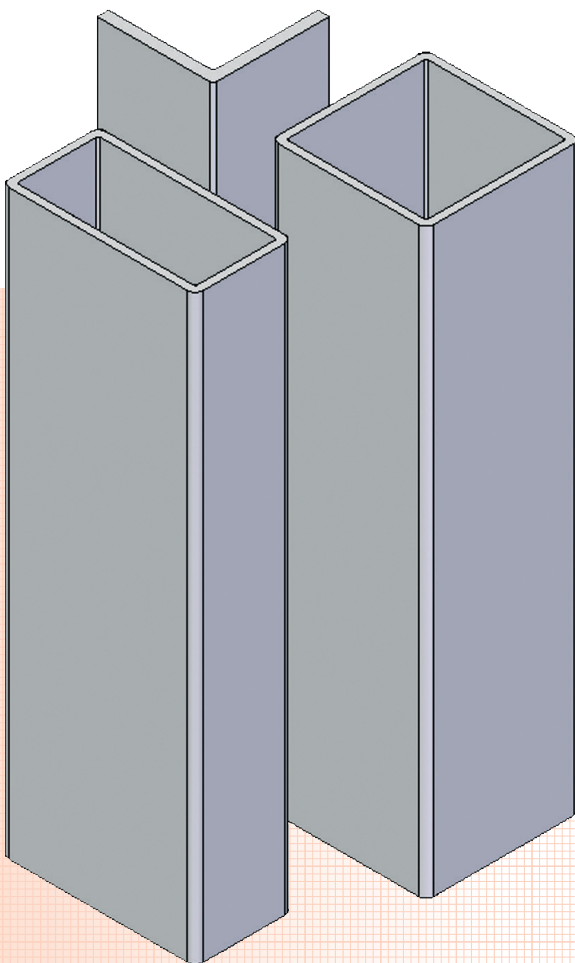
Commercial aluminium profiles. Commercial aluminium sheets in natural and pre-painted finishes.

Profils commerciaux en aluminium. Toles aluminium brutes et vernies.

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

Handelsübliche Aluminiumprofile. Handelsübliche Aluminiumblech in unbehandelter oder lackierter Ausführung.

商业铝型材

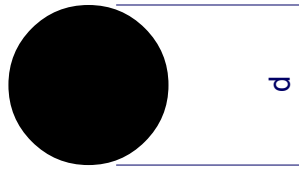


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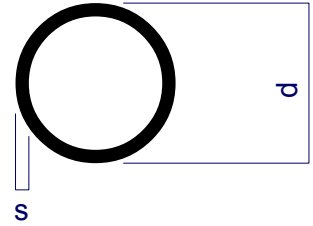
1 2

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

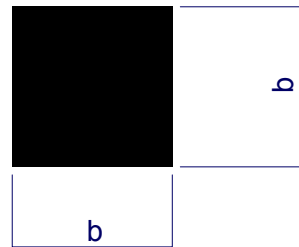
Round bars



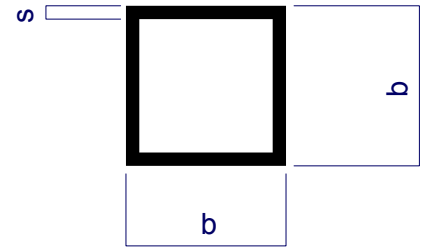
Round tubes



Square bars



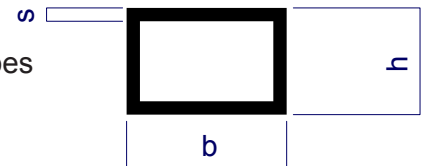
Square tubes



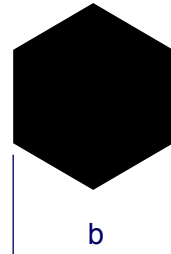
Flat bars



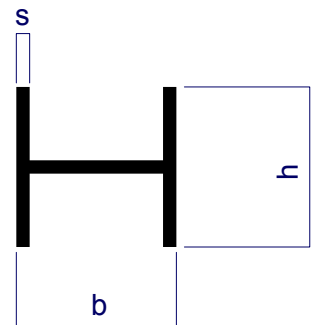
Rectangular tubes



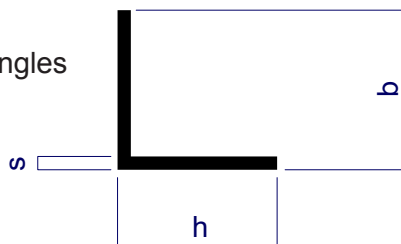
Hexagonal bars



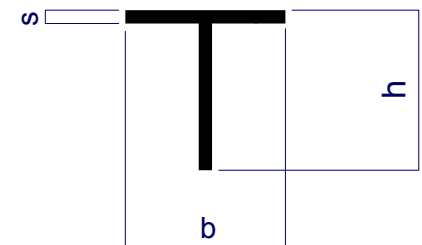
H bars



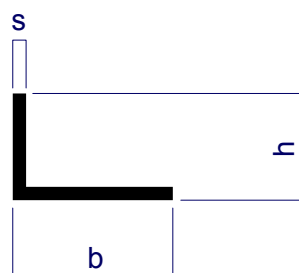
Symmetrical angles



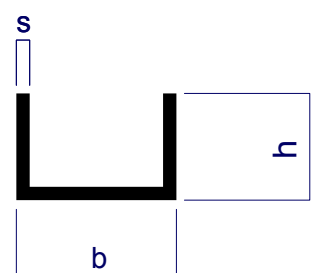
Symmetrical T



Asymmetrical angles



Channels



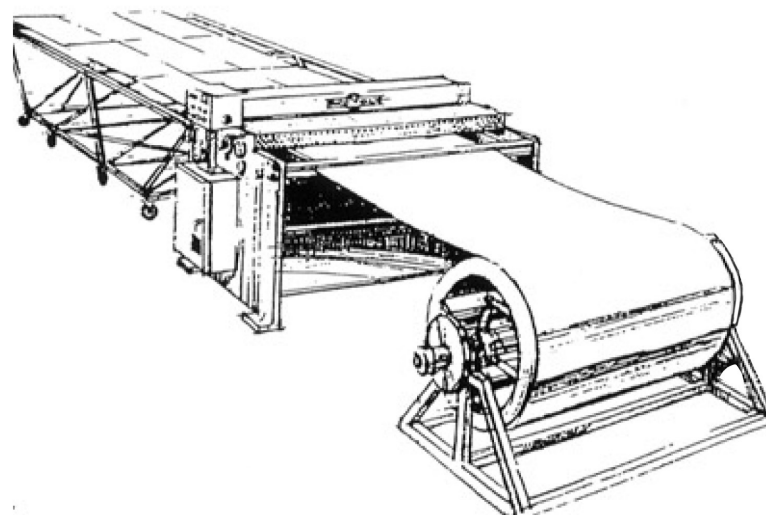
Peralluman (raw) aluminium sheet cut to length		
Thickness (mm)	Width (mm)	Cover
0.8	1000,1250,1500	PVC
1	1000,1250,1500	PVC
1.2	1000,1250,1500	PVC
1.5	1000,1250,1500	PVC
2	1000,1250,1500	PVC
3	1000 x 2000 (standard size)	PVC
4	1000 x 2000 (standard size)	PVC
5	1000 x 2000 (standard size)	PVC

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.

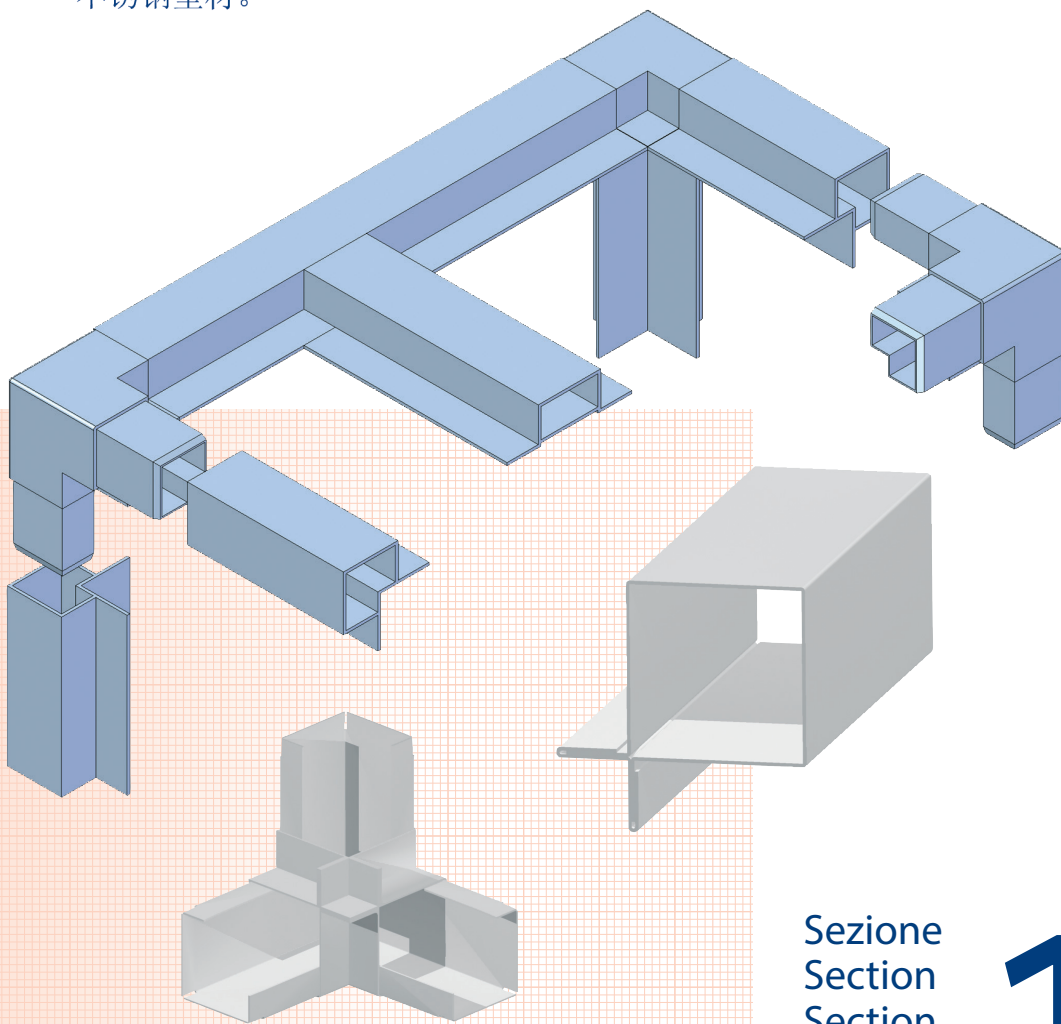
Modular frame system with stainless steel profiles and corners.

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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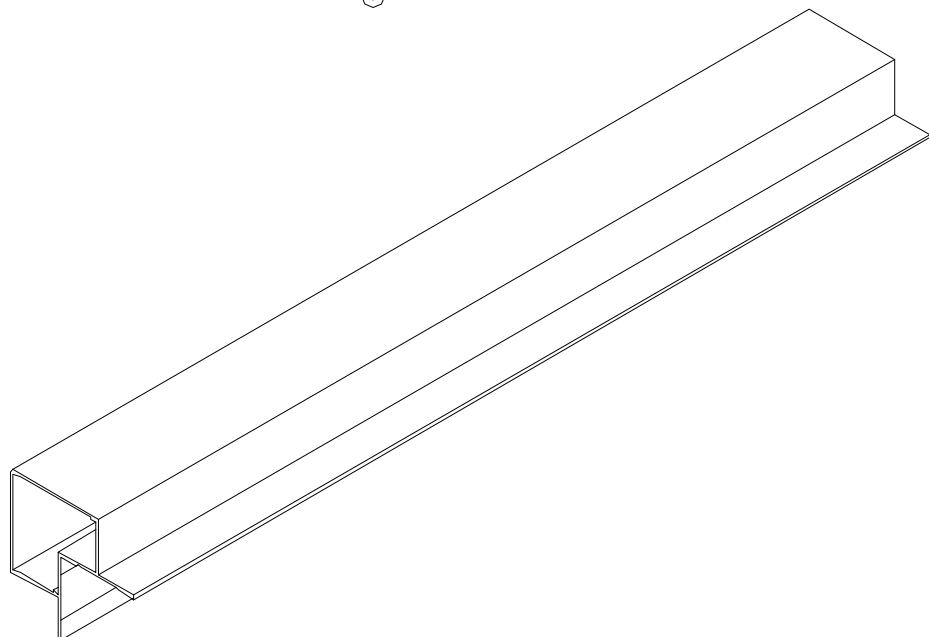
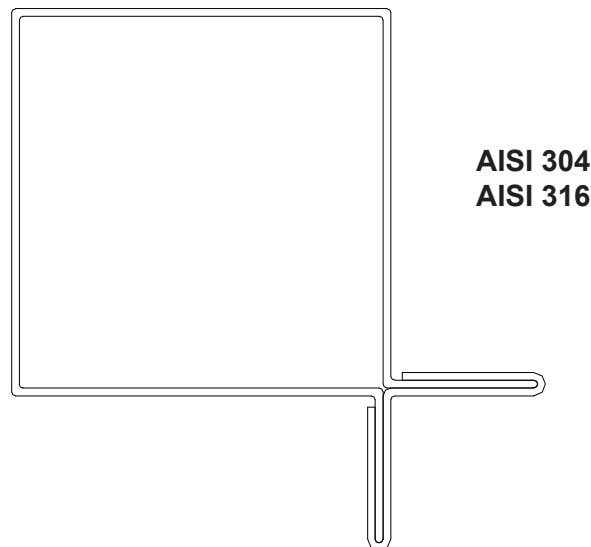
Stainless steel profiles

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

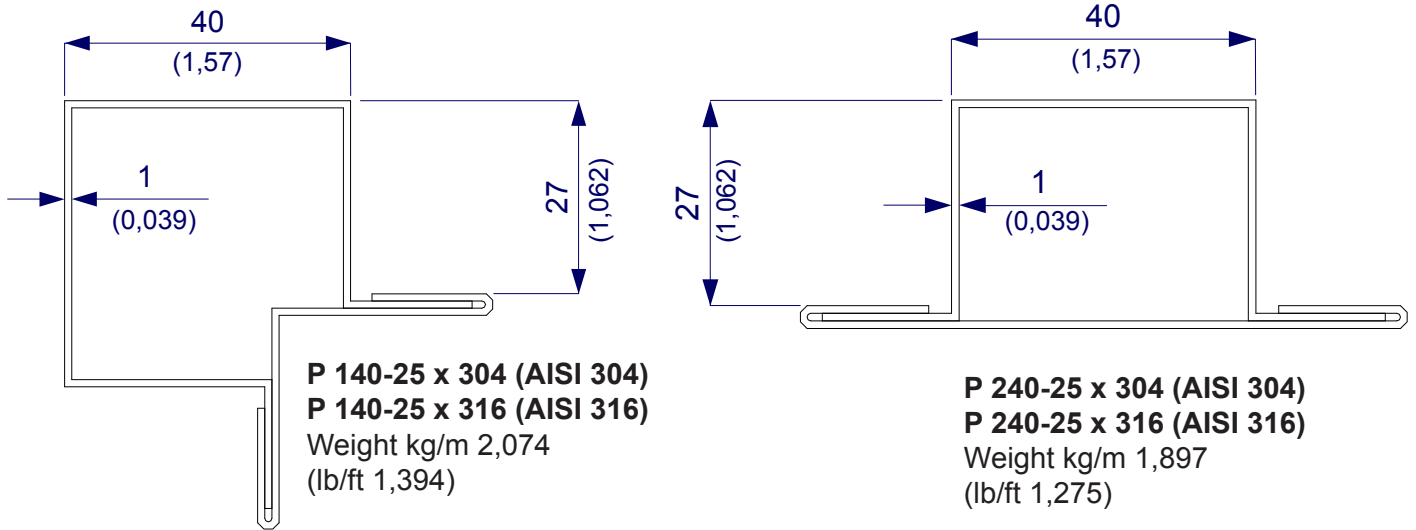
These profiles have been introduced to meet the needs of AHU builders who require a frame which is particularly corrosion resistant against atmospheric and chemical agents.

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

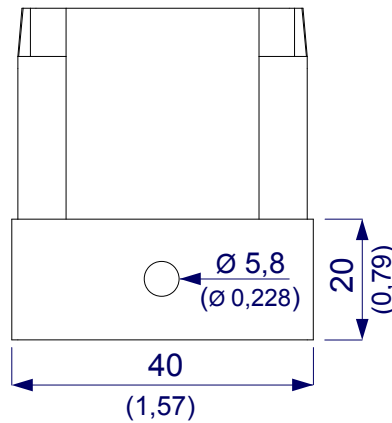
The major fields of demand of our stainless steel profiles are chemicals, oil-bearing, naval, industrial, food and other specific applications.



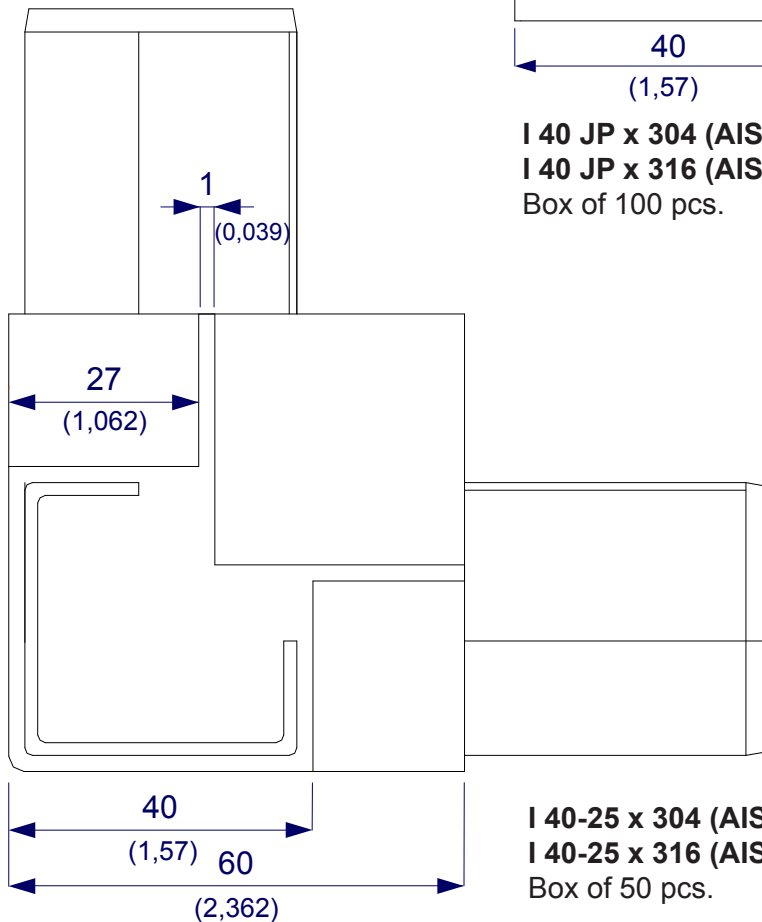
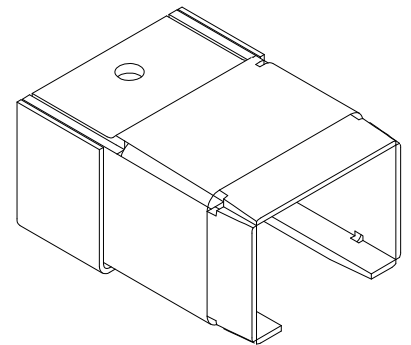
1°) Square profiles (section 40 panel 25 mm)



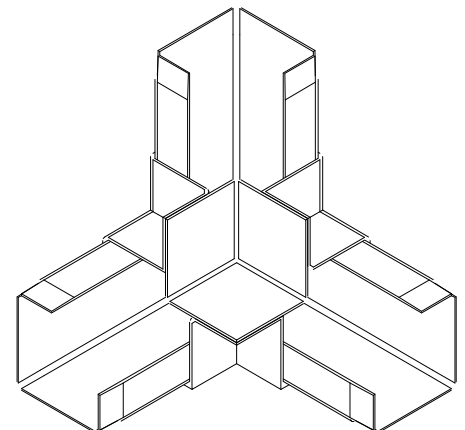
GASKET



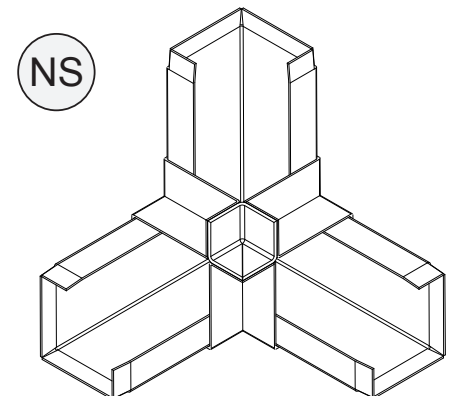
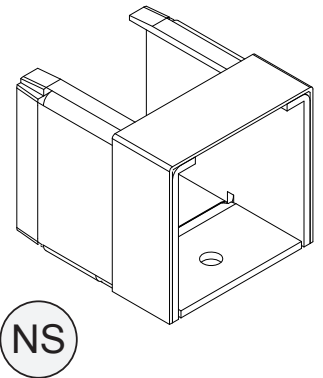
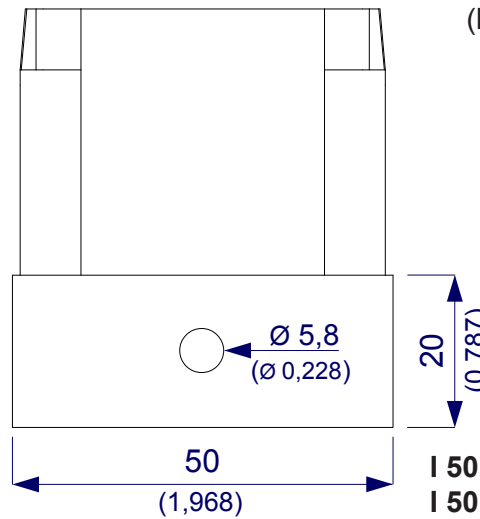
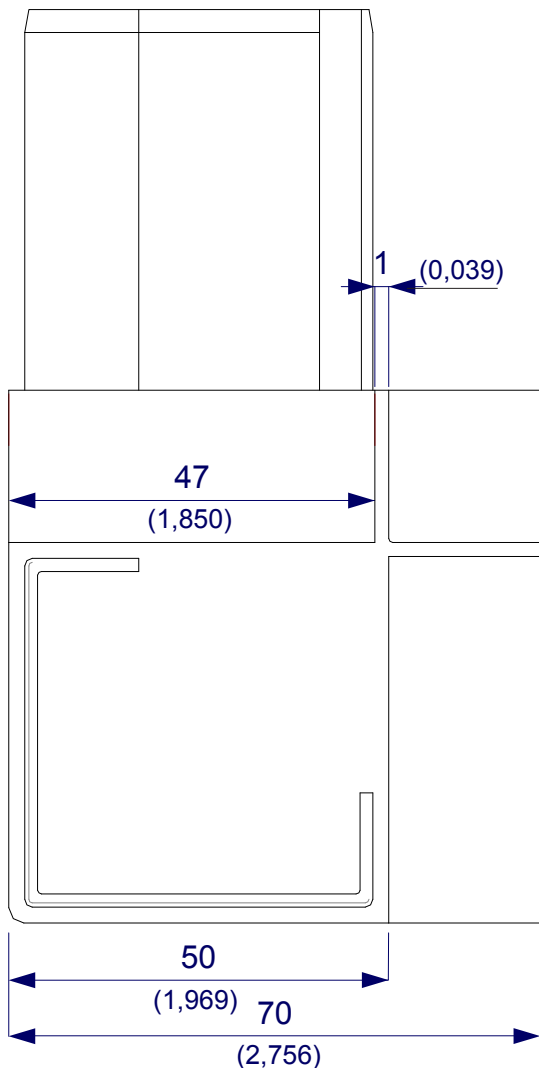
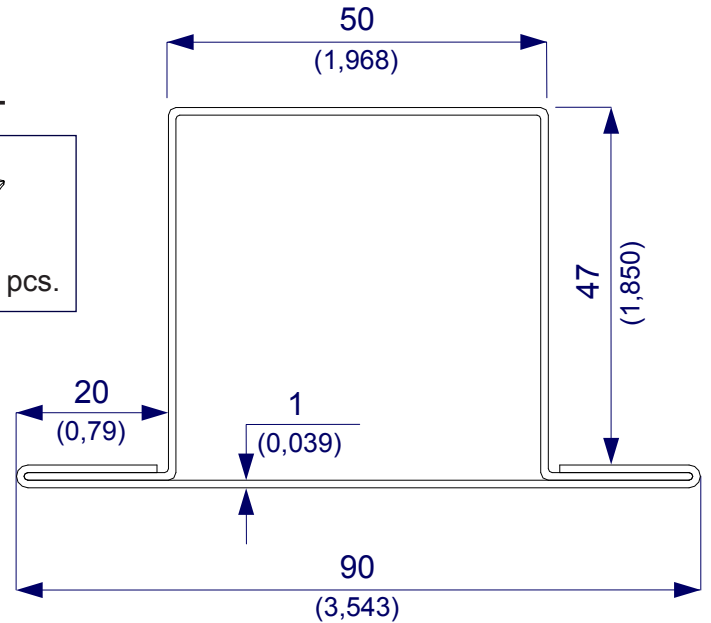
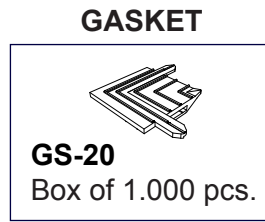
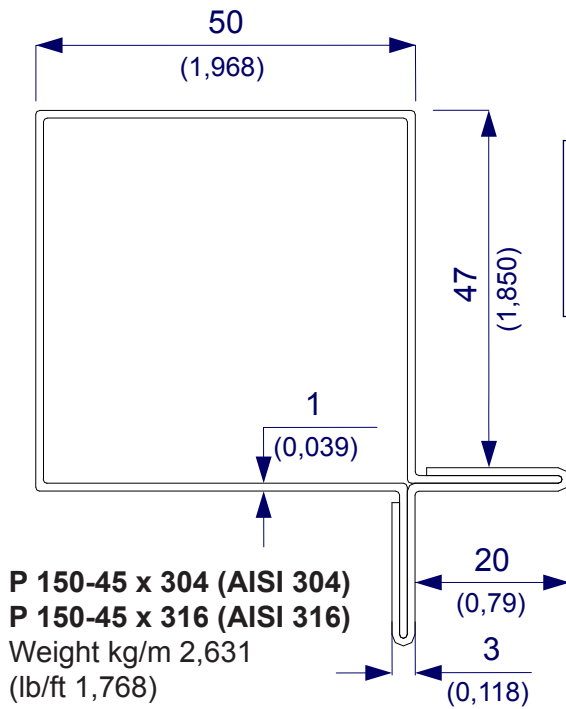
I 40 JP x 304 (AISI 304)
I 40 JP x 316 (AISI 316)
Box of 100 pcs.



I 40-25 x 304 (AISI 304)
I 40-25 x 316 (AISI 316)
Box of 50 pcs.



2° Square profiles (section 50 panel 45 mm)



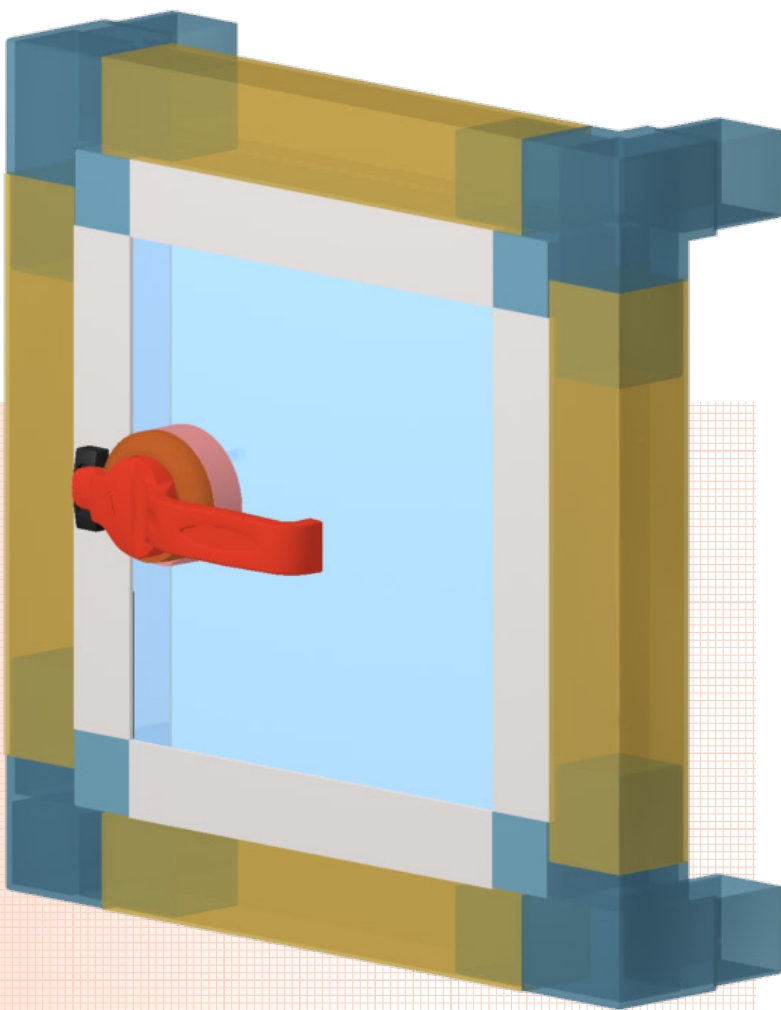
Sistema telaio per porte apribili all'interno (unità con pressione positiva).

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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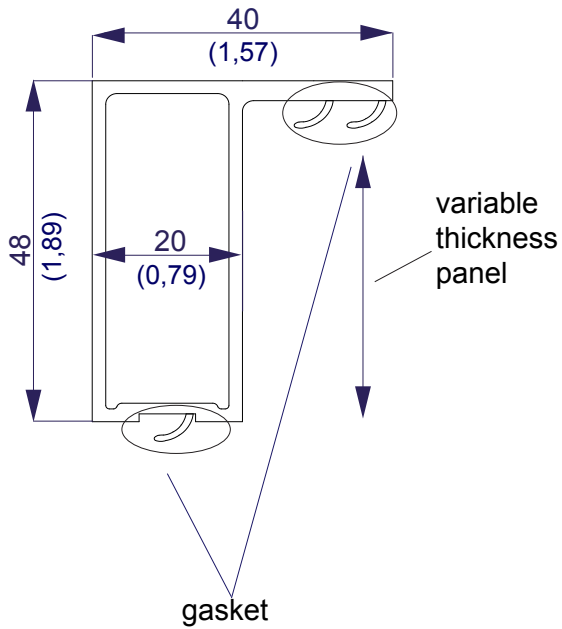
1 4

PVC-P1-48

Weight kg/m 0,472

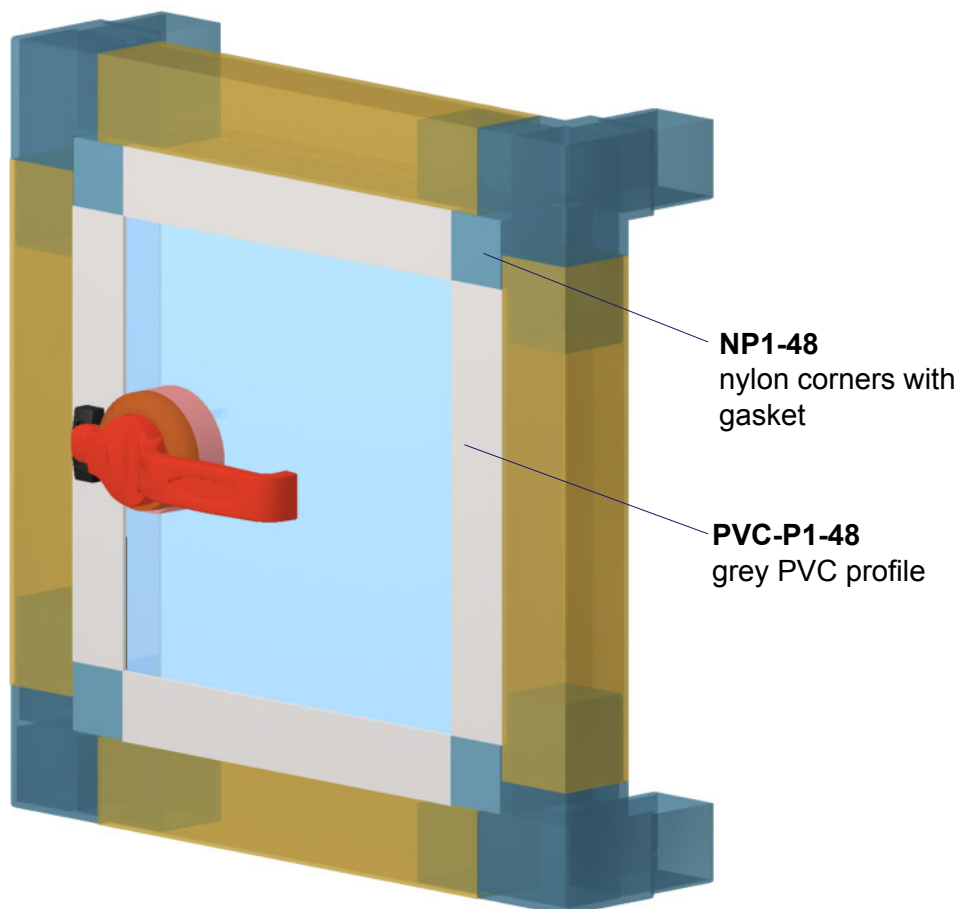
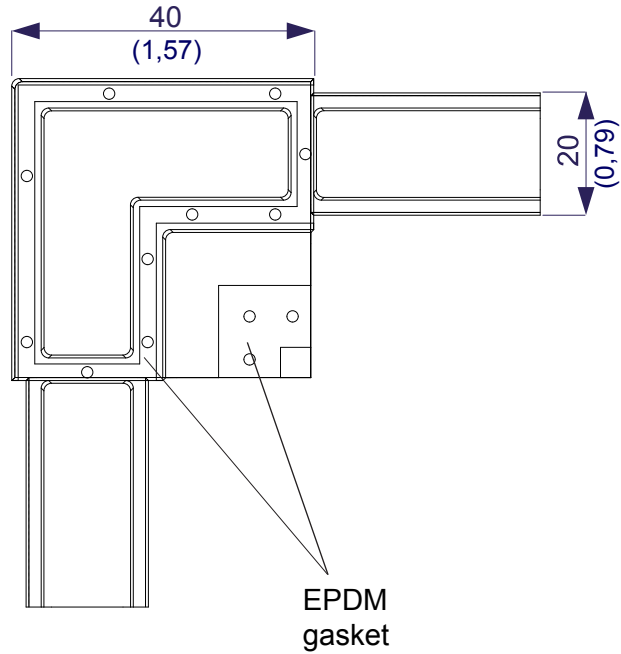
(lb/ft 0,317)

Bundle of 12 bars



NP1-48

Box of 65 pcs.



Available for 45, 50, 62 mm thickness panel system