



SYSTEMY CIEPŁOWNICZE *CAL-TERM*

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***Przedstawiciel w Polsce
firmy Pro-Lam Alluminio***

PRO-LAM S.R.L.
ALLUMINIO

Katalog produktów EUR-1

REV. 09
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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 roll.

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 9001:2008 certified. ISO certifies that processes and work procedures are carried out in order to ensure quality and customer satisfaction.

INTERNATIONAL DISTRIBUTION

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

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 rawing, 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 4).

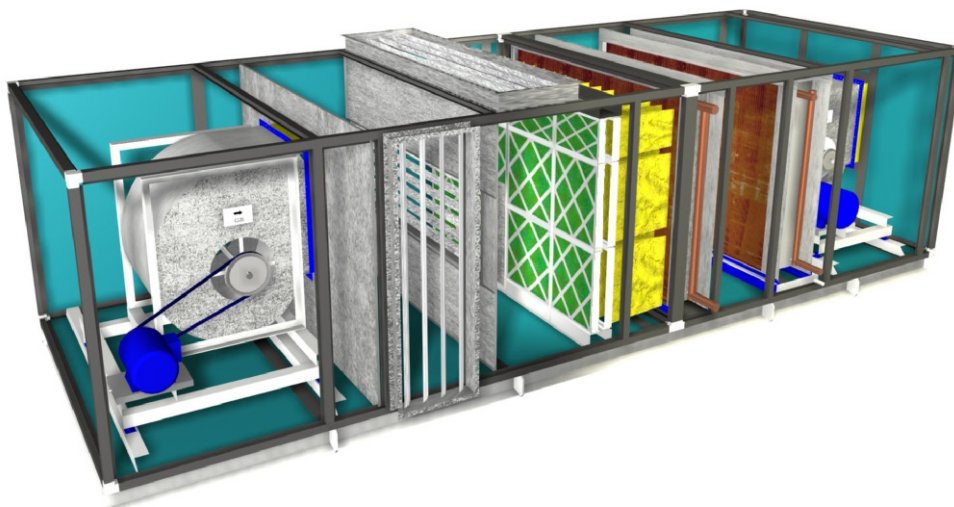
The main structure can be constructed with profiles of various dimensions and shapes; both square and blunted section profiles are available. The standard profiles are raw aluminium but also anodised and painted finishes are available.

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.

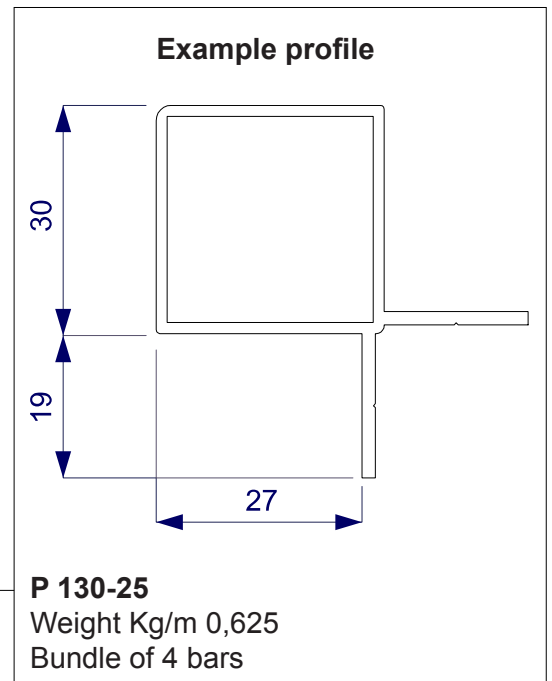
All the nylon accessories are produced through moulding. The material used is primarily olyamide reinforced with fiberglass (nylon). They can withstand maximum temperatures between 100 and 150 °C; for short periods of time they can even endure up to 200 °C.

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

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



IMPORTANT NOTE

Example 1: Profile code description

"1" indicates the corner post shape

"2" it is used for omega profile

P 130/25

"30" indicates the square section in mm

"25" indicates the thickness of the panel suitable for this profile

Weight kg/m = 0,625

The theory 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 lenght of the profile in stock is 6 mt.

Example 2: Accessories code description

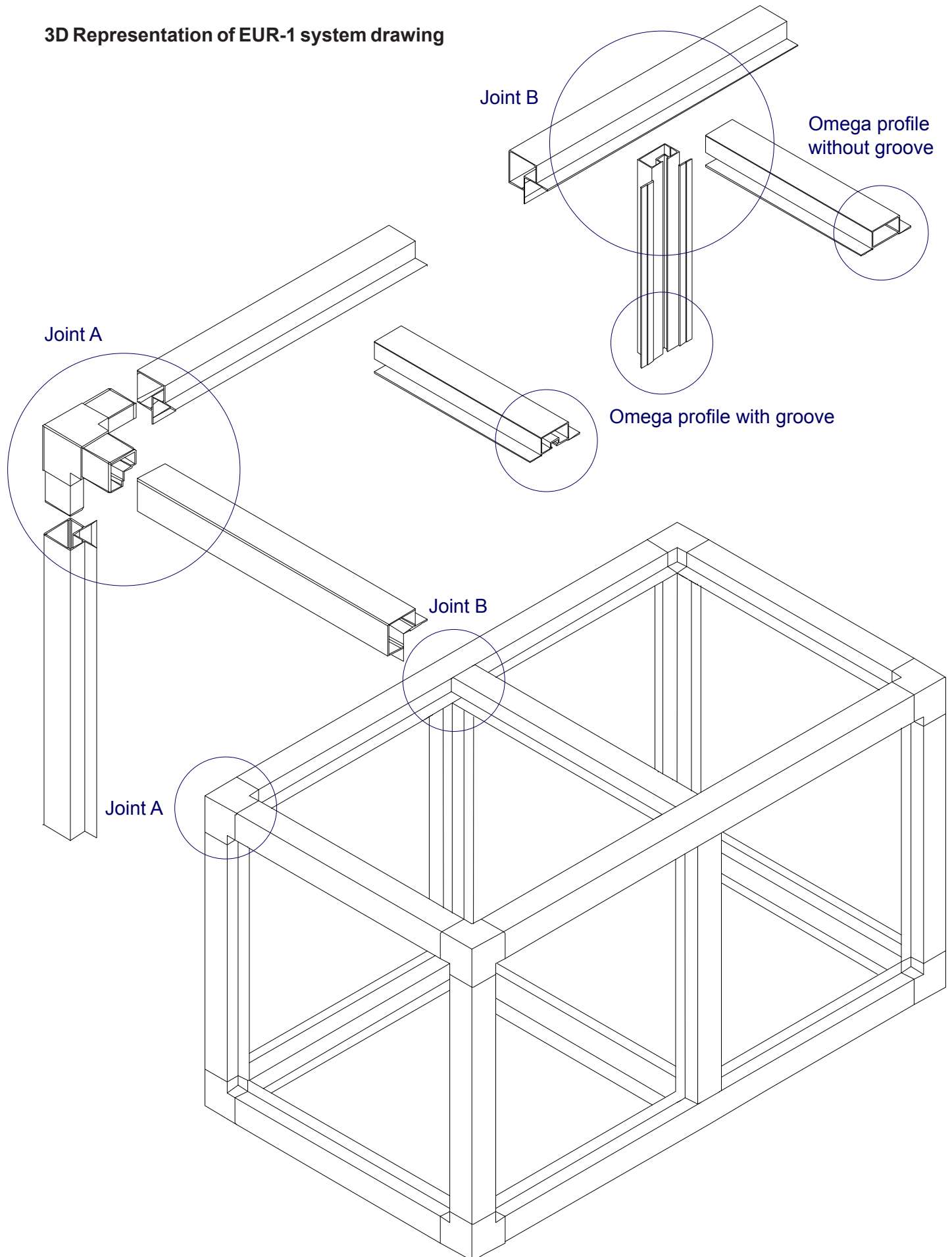
The first letter indicates the material
(aluminium)

A 30/25

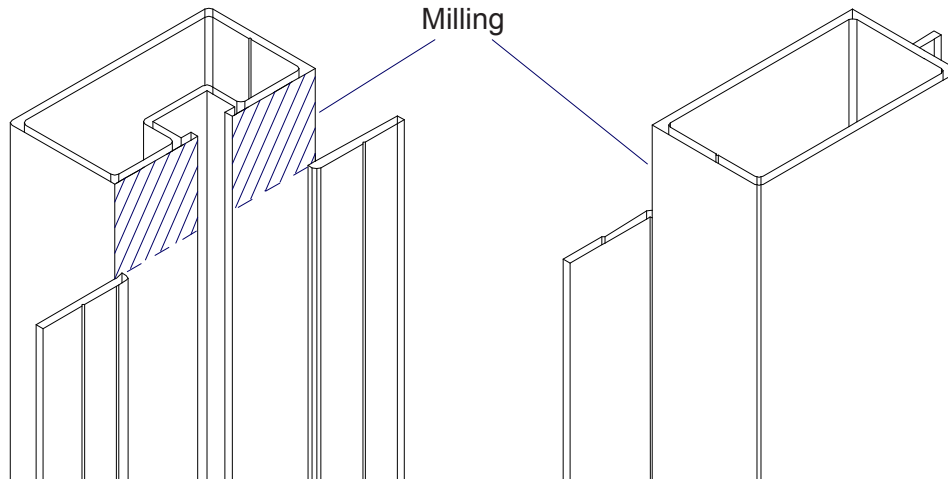
"30" indicates the square section in mm. (suitable for profile P 130/25)

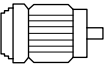

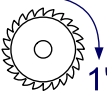
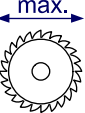
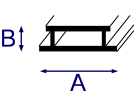
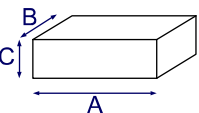

"25" indicates the thickness of the panel suitable for this corner
(suitable for profile P 130/25)

3D Representation of EUR-1 system drawing



The omega profile should be milled at both ends in order to fit perfectly to a corner post profile or to another omega. This operation is best carried out with our milling machine, **MILLER O - 1**. The operation is quick and simple.



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

Semi automatic milling machine (omega profiles)

Miller O-1

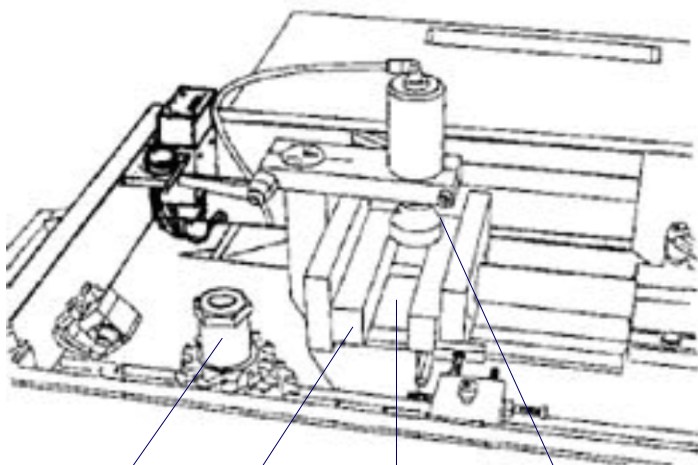
Box of 1 pcs.



MILLING CUTTER

Mill 140x4

Box of 2 pcs.



Mill Jaw Slide for profile Pneumatic piston





Single head cutting machine.

Cutting-off / 1

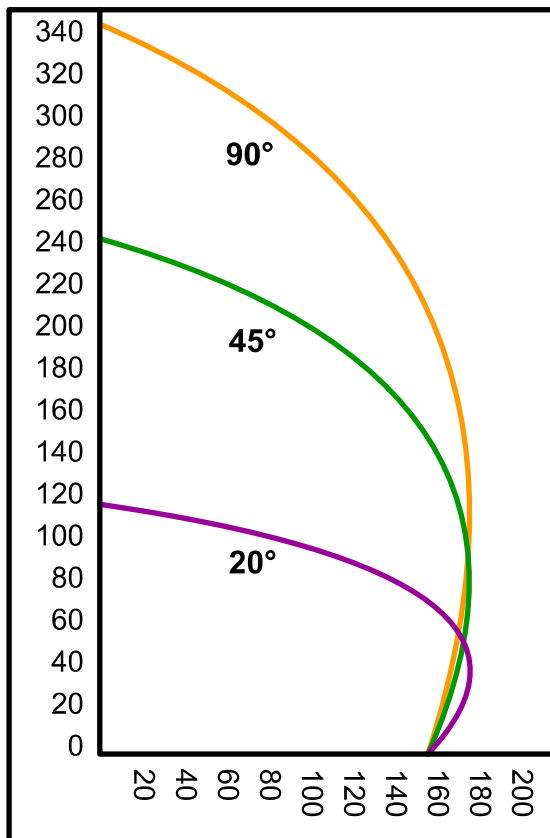
Box of 1 pc.

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

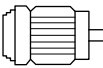

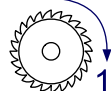
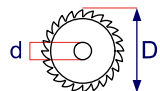
Safety and comfort:


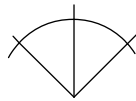
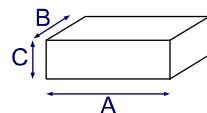

- Full enclosure to provide noise reduction and complete accident protection.
- Chips collection drawer.

Capacity cutting chart



Technical table

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

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

Side tables (loading and unloading)

Loading table from 3 to 4.6 metres length.

Unloading tables:

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

LIST OF THE AVAILABLE SOFTWARE

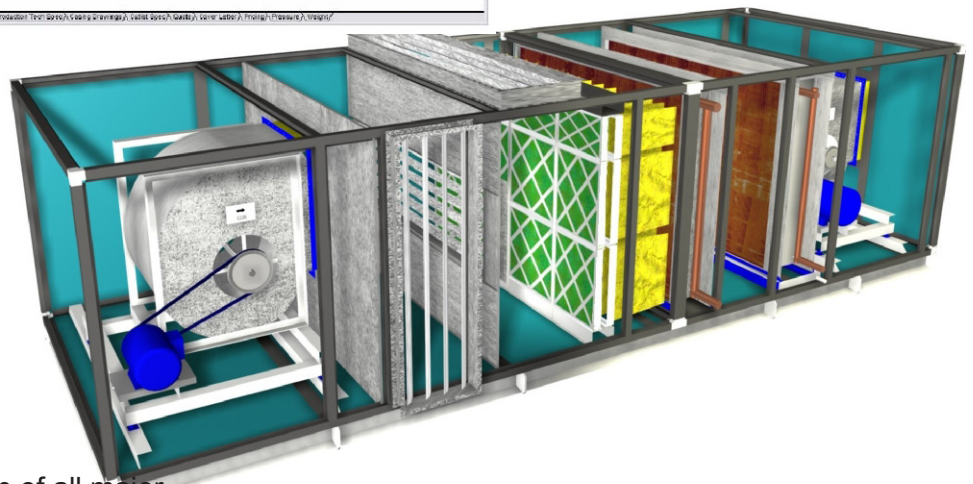
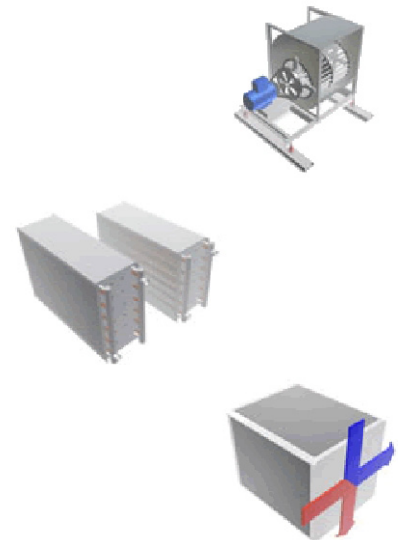
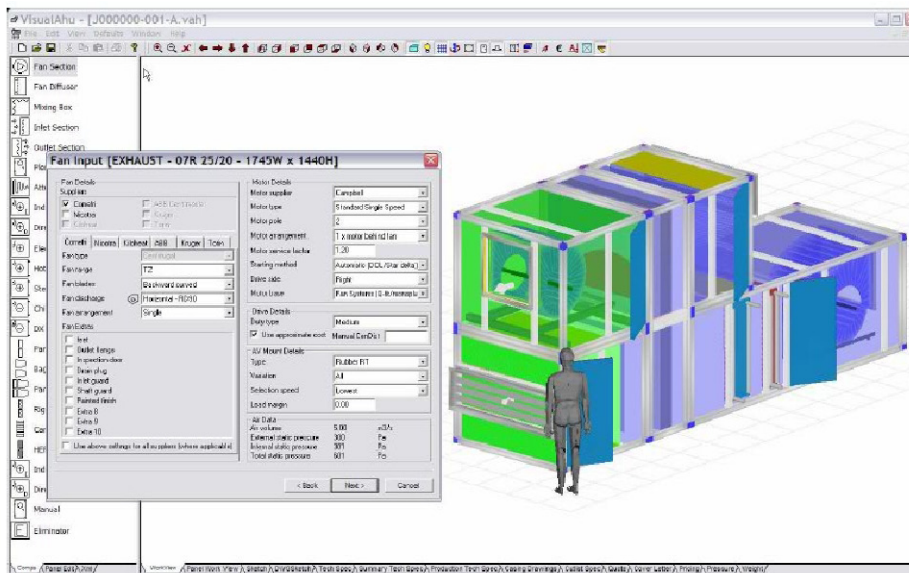
Visual-Ahu: for the selection of the components and the calculation of the costs of production and design.
Visual 3D

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													
Corrispondence 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.		Phisical condition according to UNI 3565		Phisical condition according to UNI 8278		Tensile strength at break Rm (N/mm)		Yield point Rp 0.2 N/mm²		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 PROPRIETIES		
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 e 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
polishibility	for states O T1,T4	sufficient
	for states T5,T6,T8 T10	good
corrosion proofness in 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 1400/25I	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 TEST (% 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		SENTENCE		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				
Elettrical conduttivity 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 (resistence 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 - caprolattame

Physical construction partially crystalline: isotope structure finely crystalline

Seeming specific weight: aprox. 700 kg/m³

Density: aprox. 1,21-1,60 g/cm³

Working 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°			217-221
Softening temperature VST/B 50	49,05 N	C°	ISO 306, DIN 53460	10x10x4	>200
HDT Thermal stability	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	-

TECHNICAL DATA SHEET OF LEXAN R121 FOR MOULDING OF PORTHOLE:

The lexan polycarbonate is a tecnopolimero 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 63, 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 63 TECNOPRO 235 MATERIAL , SIGIPLAST 101,
G65 TECNOPRO 208 MATERIAL, **G 59** TECNOPRO 235 MATERIAL, SIGIPLAST 101

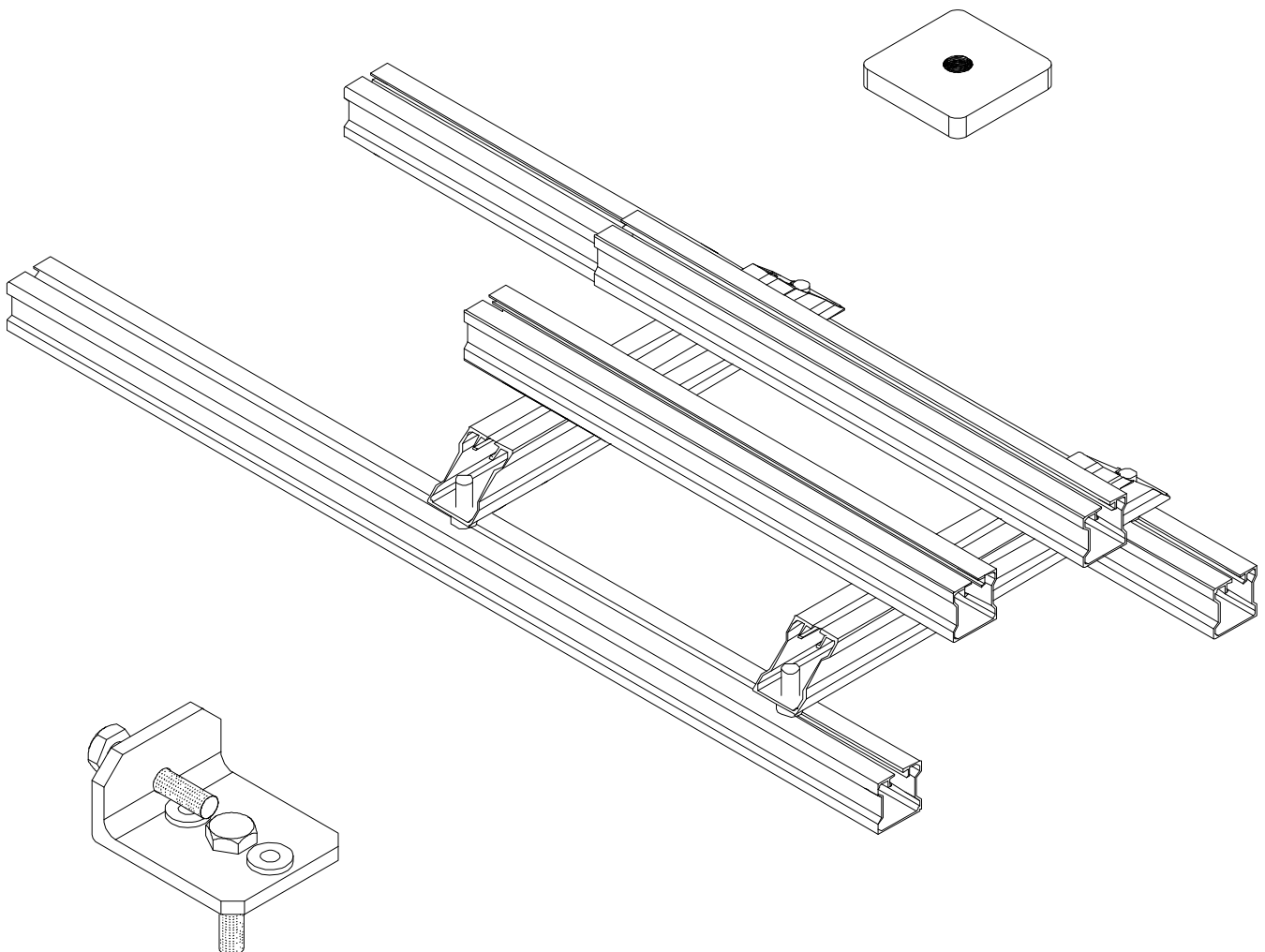
5° PART*

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
<p>*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.</p>				

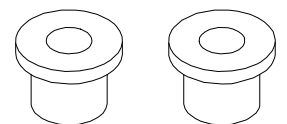
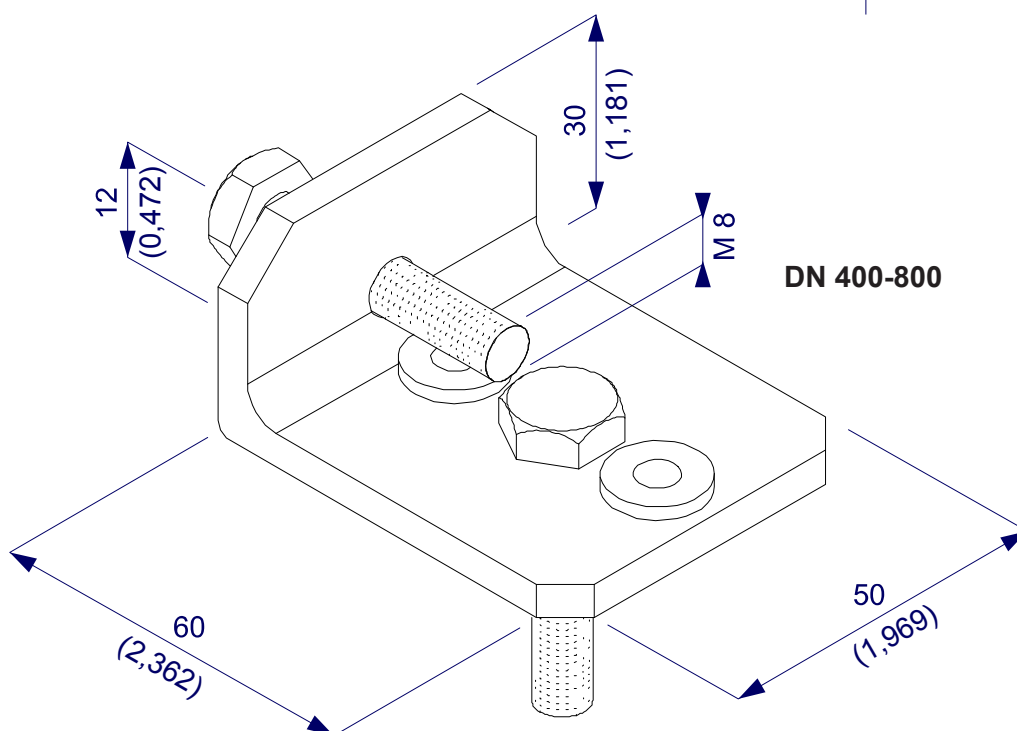
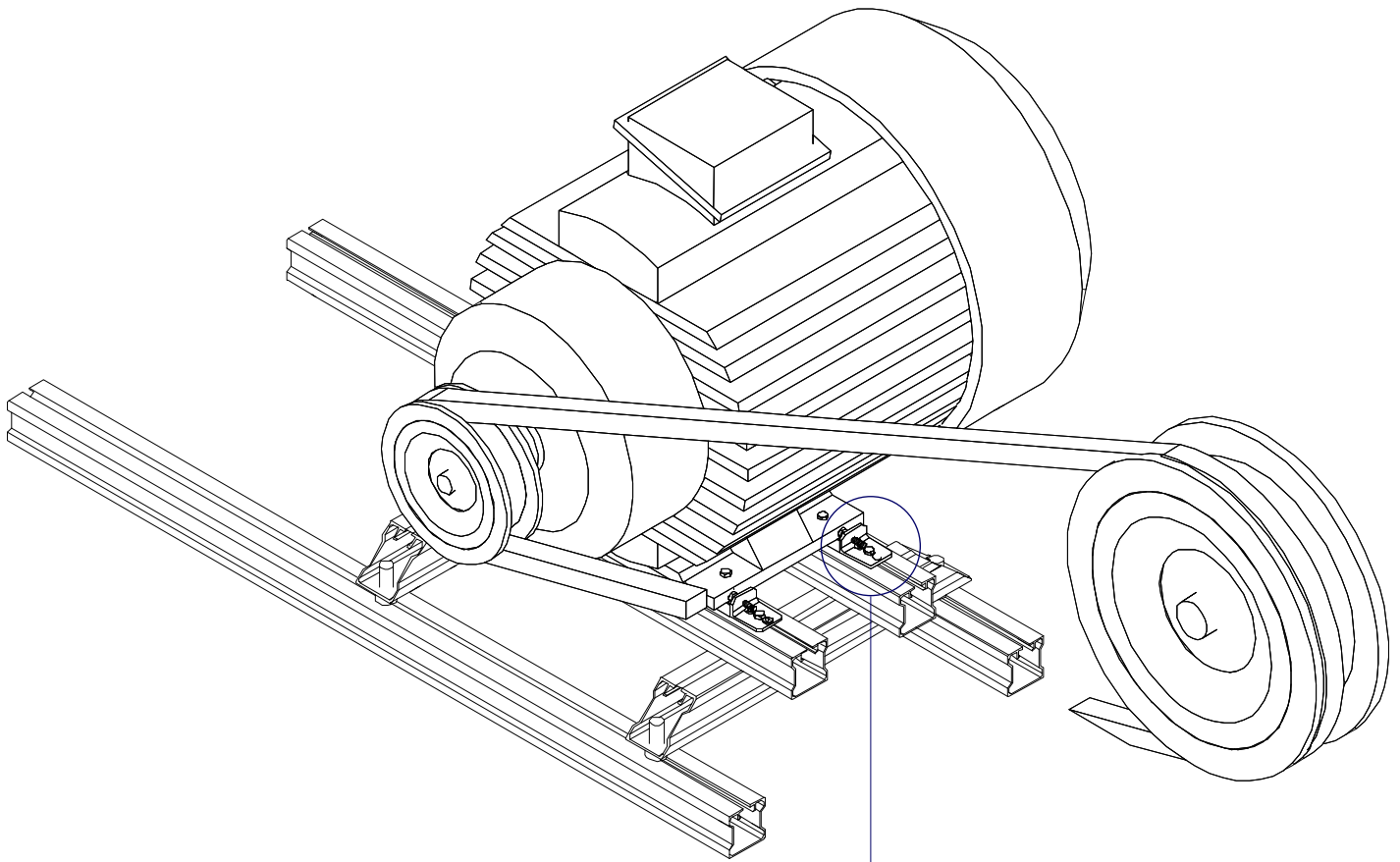
The base profiles are used to support motors, fans and other types of equipment which need anchoring. They are extremely easy to assemble and as a result the belt tensioning process becomes easier. Belt adjustment is performed through the DN 400/800 "belt tensioner" and the DS plates that fasten all 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.

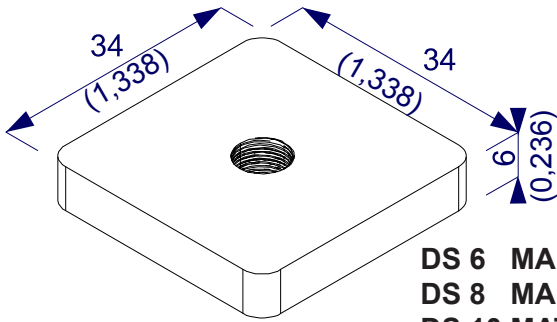
Profiles BAS 151/50 and BAS 100/50 are typically used as a base for the unit and so are fastened together with the structural profiles. The BAS 100/50 can be placed under the omega profiles as a cross piece when base corner post profiles are used. (See Section 4 for base corner post profiles.)



3D representation of motor-frame



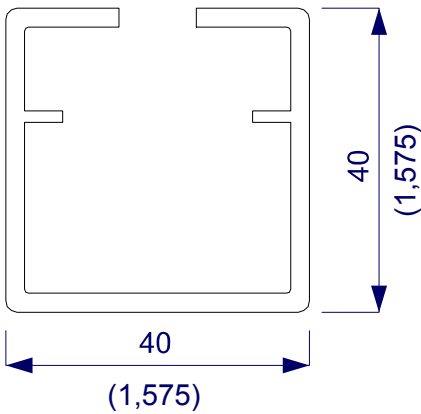
Steel plate for profile grooves



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

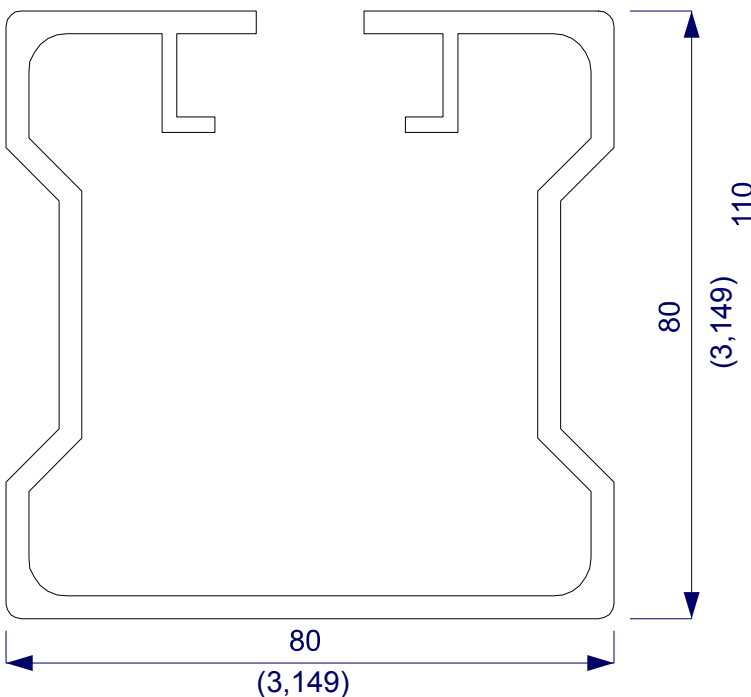
BAS 40

Weight kg/m 0,947
 (lb/ft 0,636)
 Bundle of 4 bars



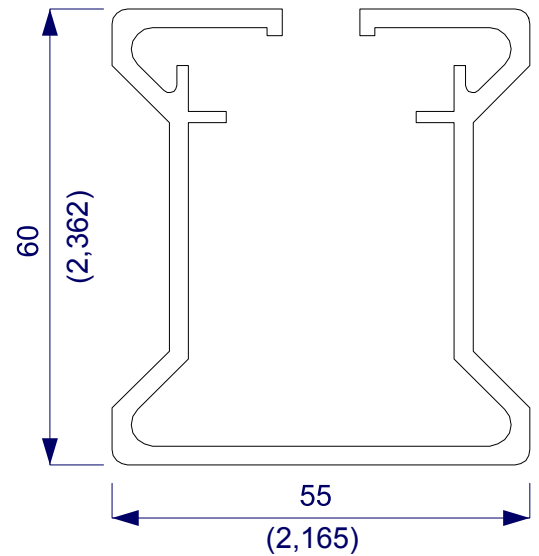
BAS 80

Weight kg/m 2,583
 (lb/ft 1,745)
 Bundle of 2 bars



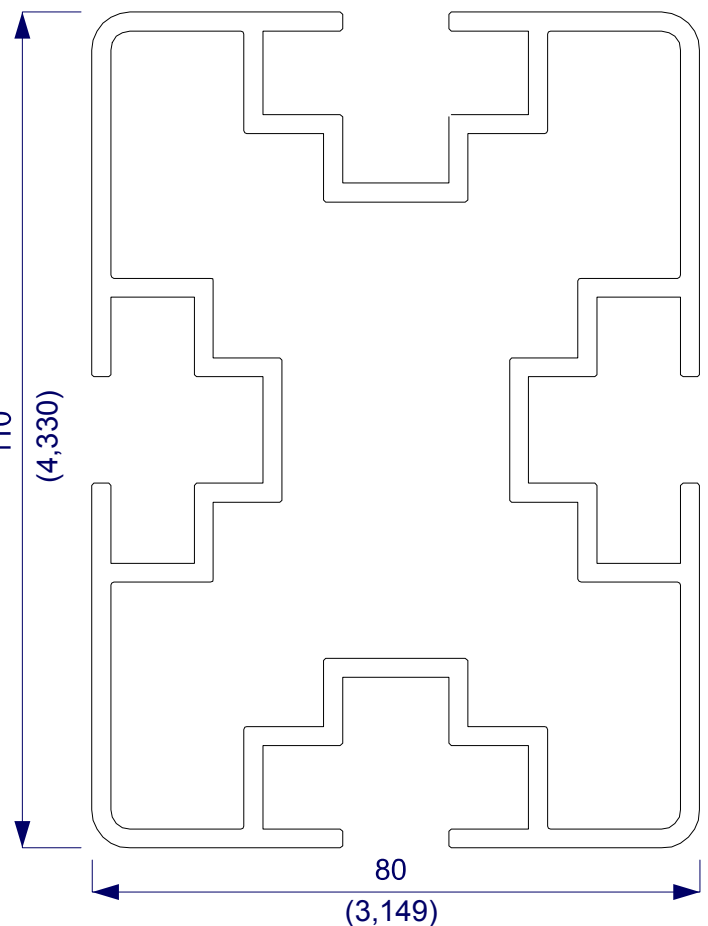
BAS 60

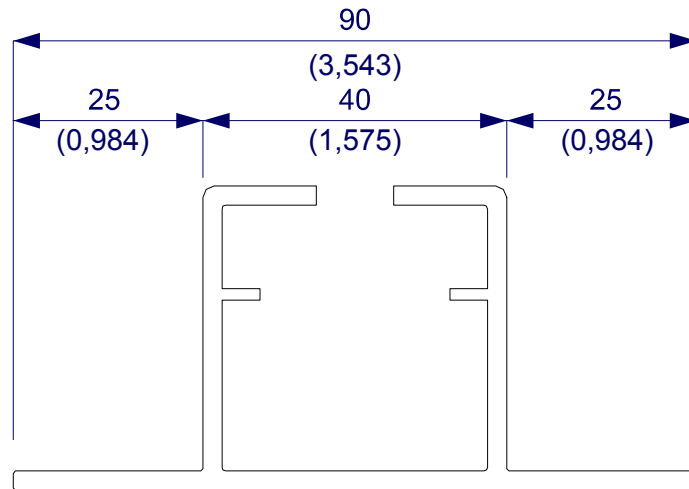
Weight kg/m 1,481
 (lb/ft 0,349)
 Bundle of 3 bars



BAS 80-110

Weight kg/m 4,167
 (lb/ft 2,797)
 Bundle of 1 bar





BAS 41

Weight kg/m 1,481

(lb/ft 0,349)

Bundle of 3 bars

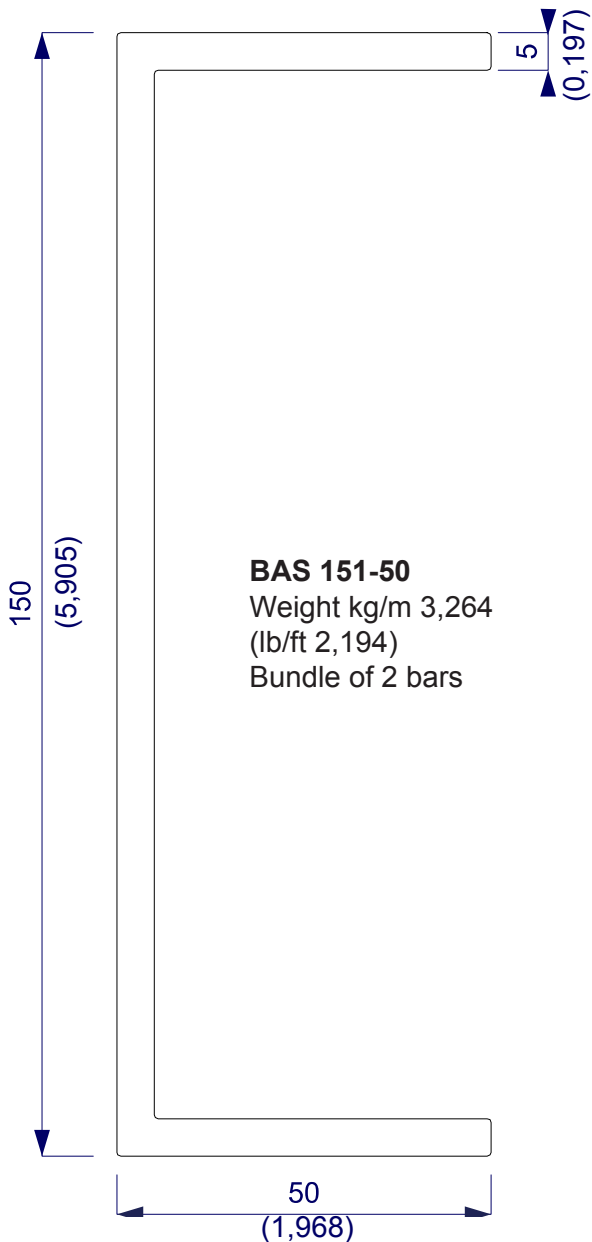
BASES

BAS 100-50

Weight kg/m 2,567

(lb/ft 1,724)

Bundle of 2 bars

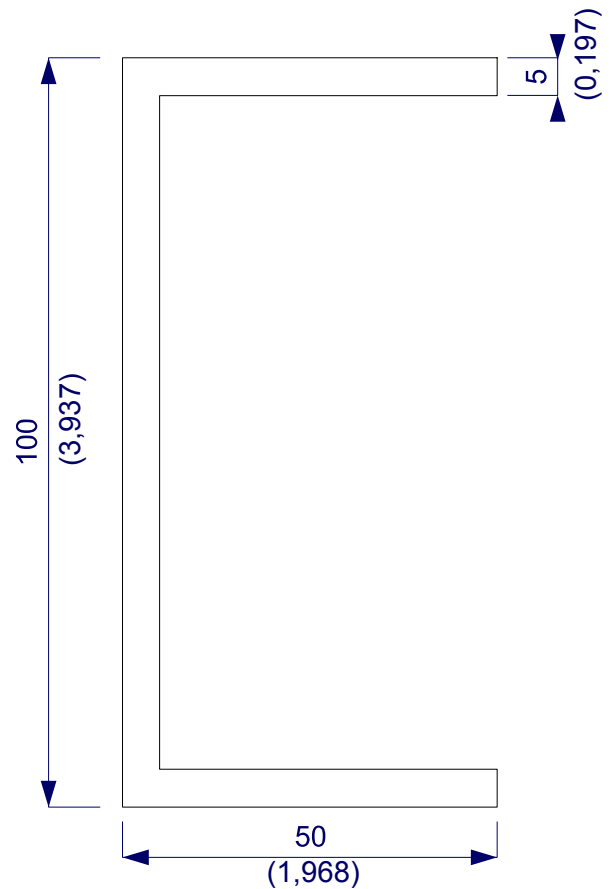


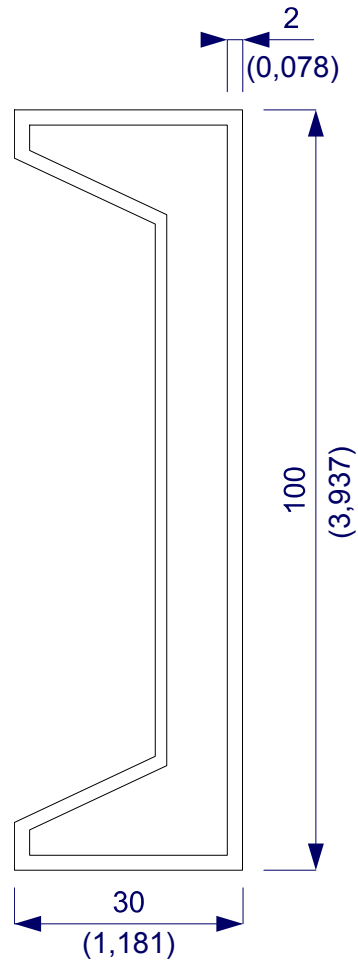
BAS 151-50

Weight kg/m 3,264

(lb/ft 2,194)

Bundle of 2 bars

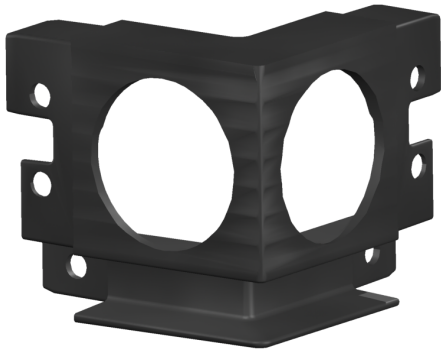
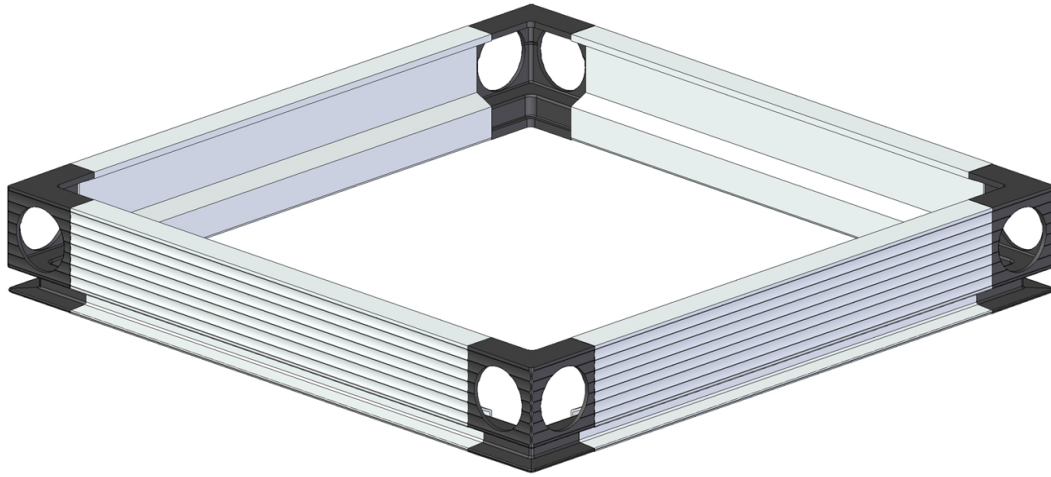




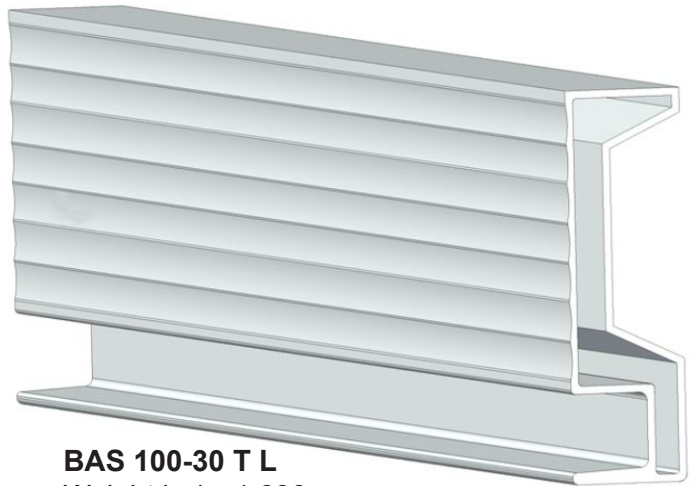
BAS 100/30T

Weight kg/m 1,36
(lb/ft 0,914)

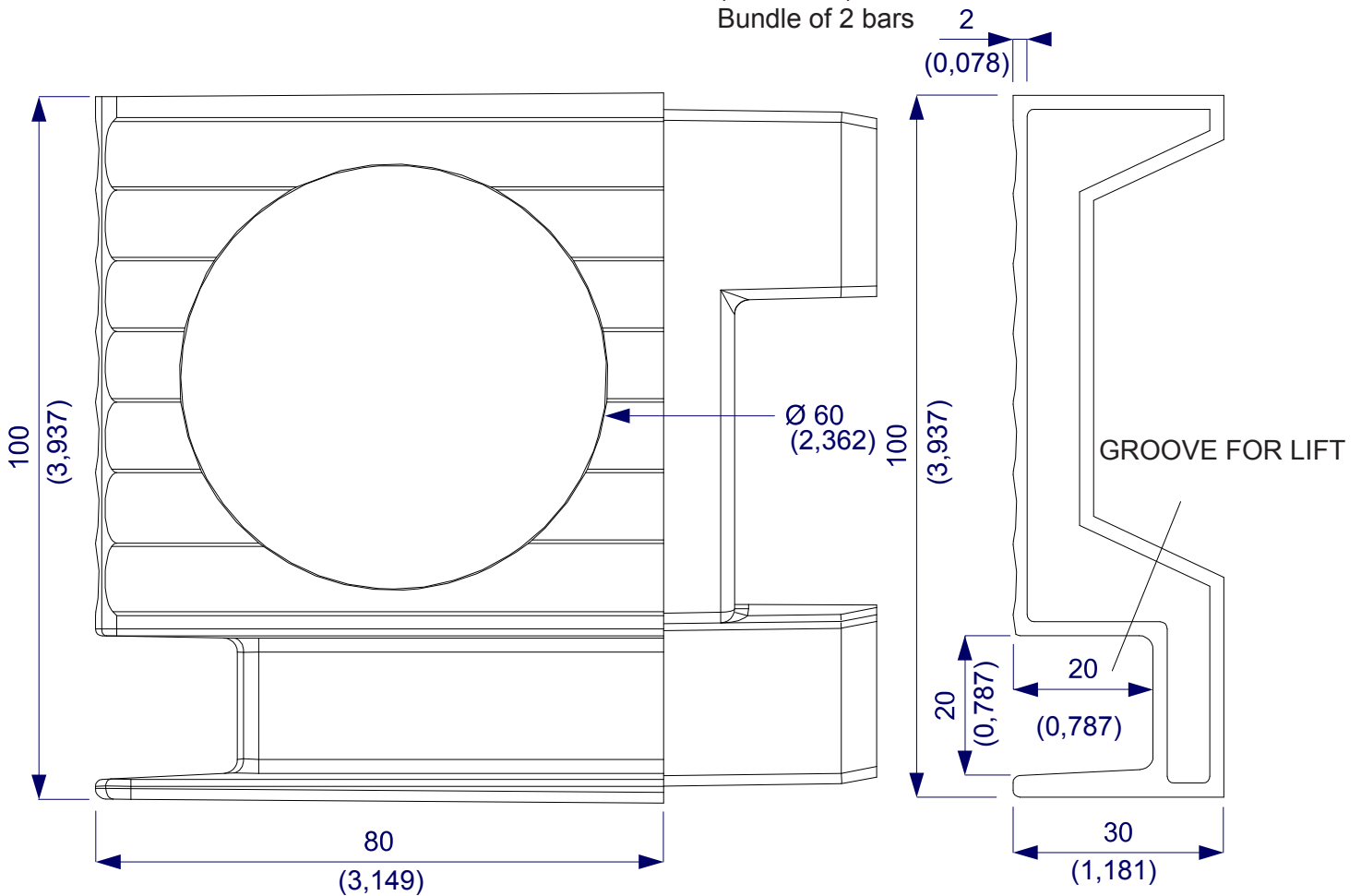
Bundle of 2 bars



A 100
Box of 50 pcs.



BAS 100-30 T L
Weight kg/m 1,630
(lb/ft 3,594)
Bundle of 2 bars



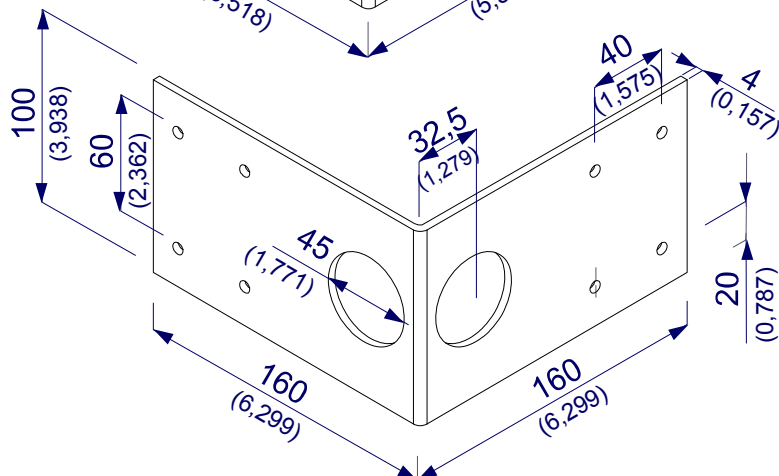
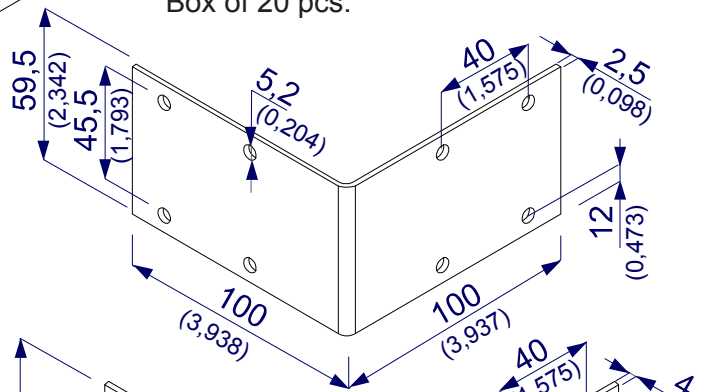
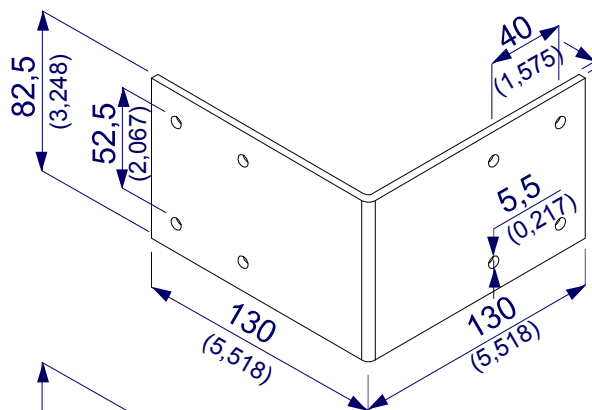
Steel joint for base profiles

Internal view

DS 100

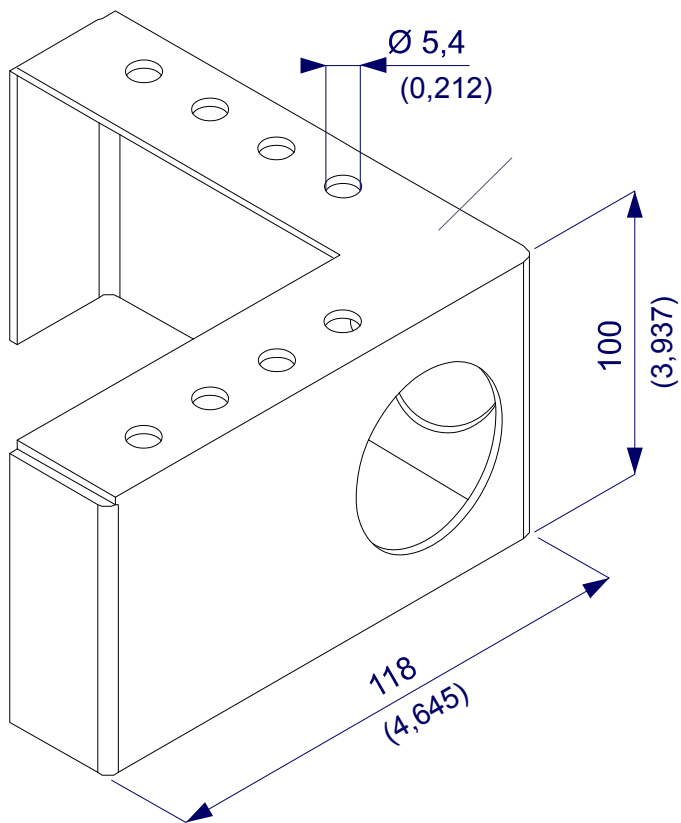
DS 70 for profiles P 130/25 BAS
Box of 20 pcs.

Black colour

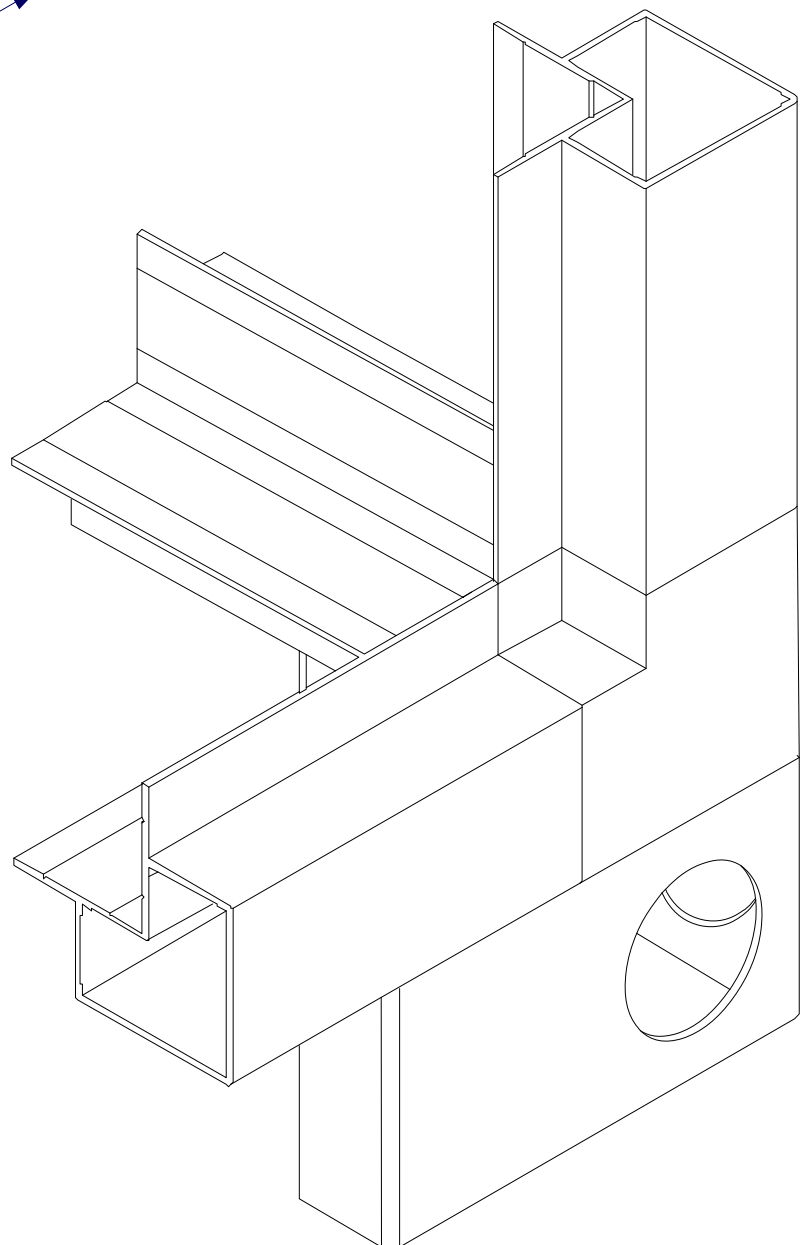


DS 100 for profiles
P 140-25 BAS
P 150-25 BAS
P 150-45 BAS
P 151-25 BAS
P 170-25 BAS
P 170-50 BAS
Box of 12 pcs.

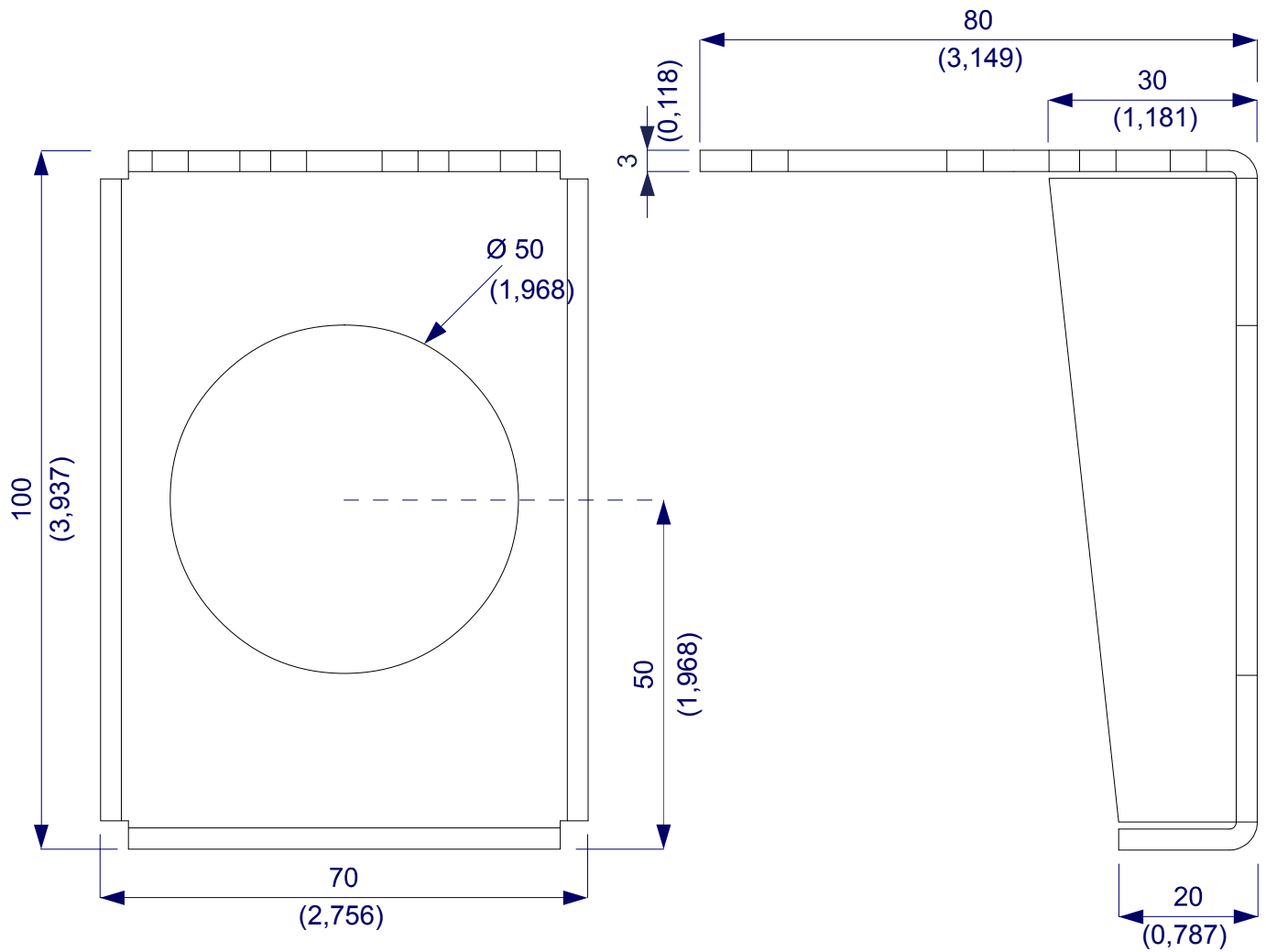
Steel foot



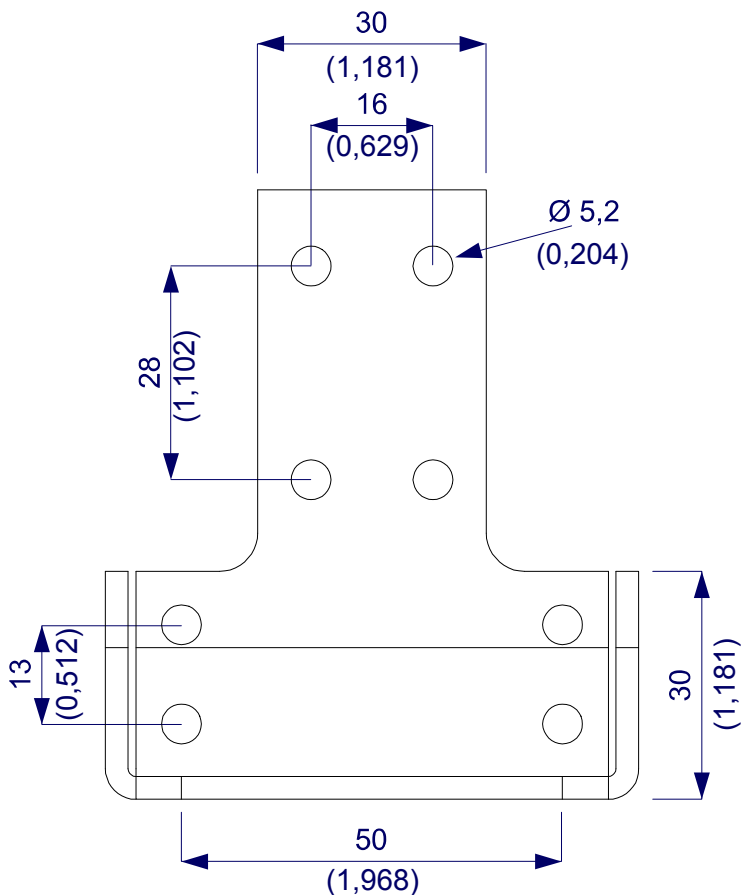
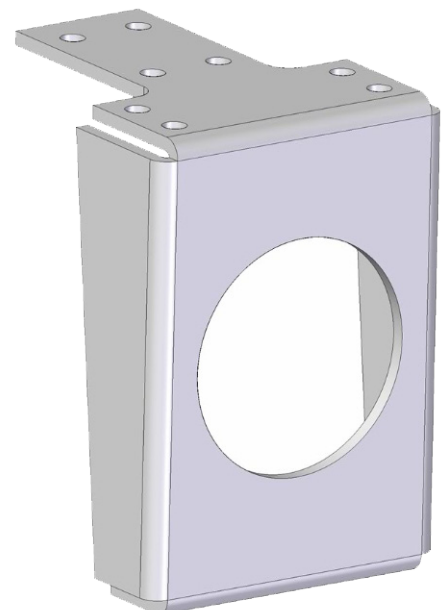
DS 105
Box of 40 pcs.



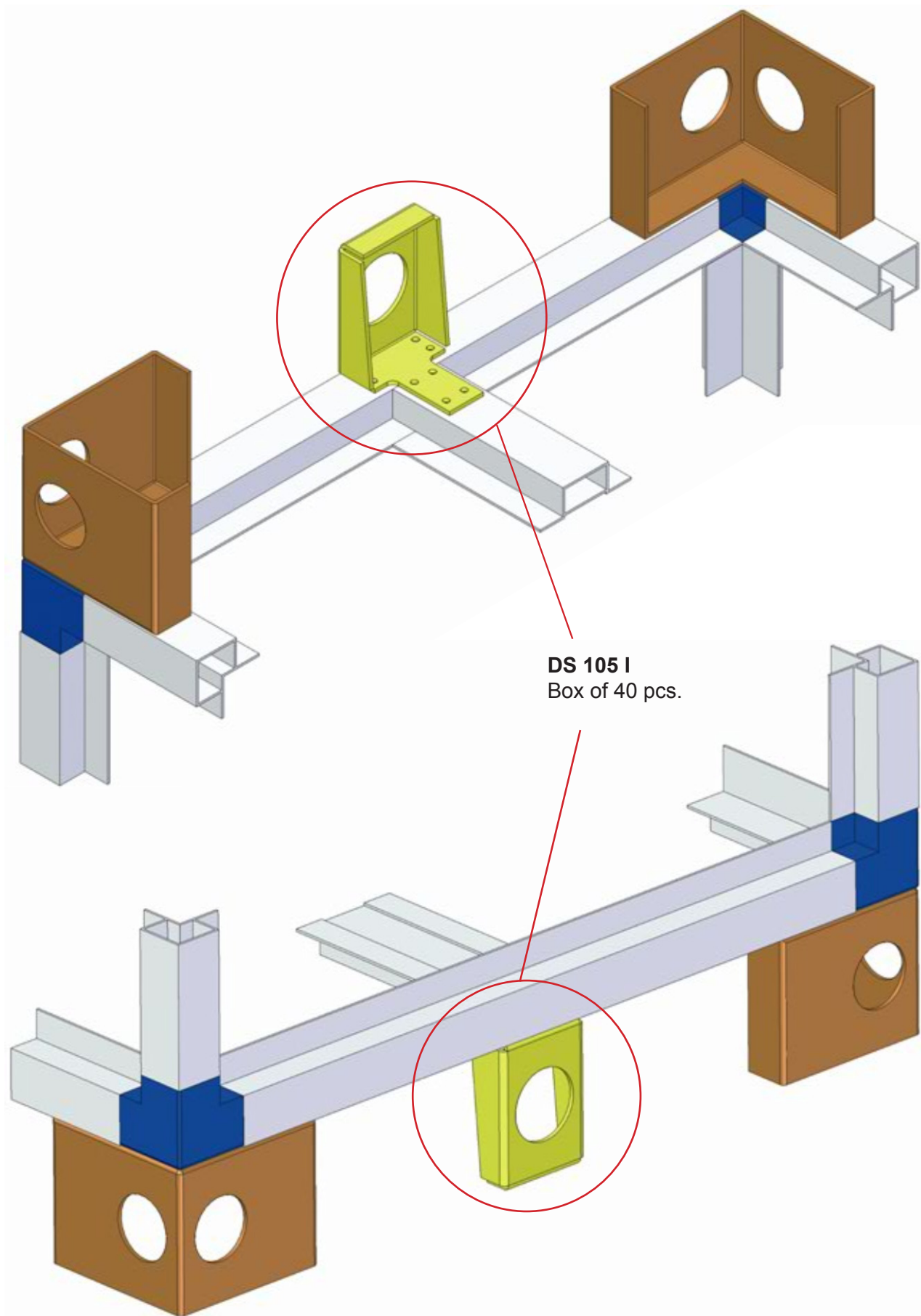
Intermediate steel foot



DS 105 I
Box of 40 pcs.



Intermediate steel footIntermediate steel foot



The available panels are in standard size of 1000x2000x25 mm. (others dimensions are available on request).

They consist of two pre-painted silver aluminum sheets with a polystyrene core. Two different profiles (P 190, P 191) are also available to cover the edge of the panel. These frame profiles must be cut to 45° in order to make them fit together.

Available on request, there are panels in expanded polyurethane in standard size of 1250x3200 mm and of variable thickness. These panels are made of aluminium or steel sheet and come in different colours.

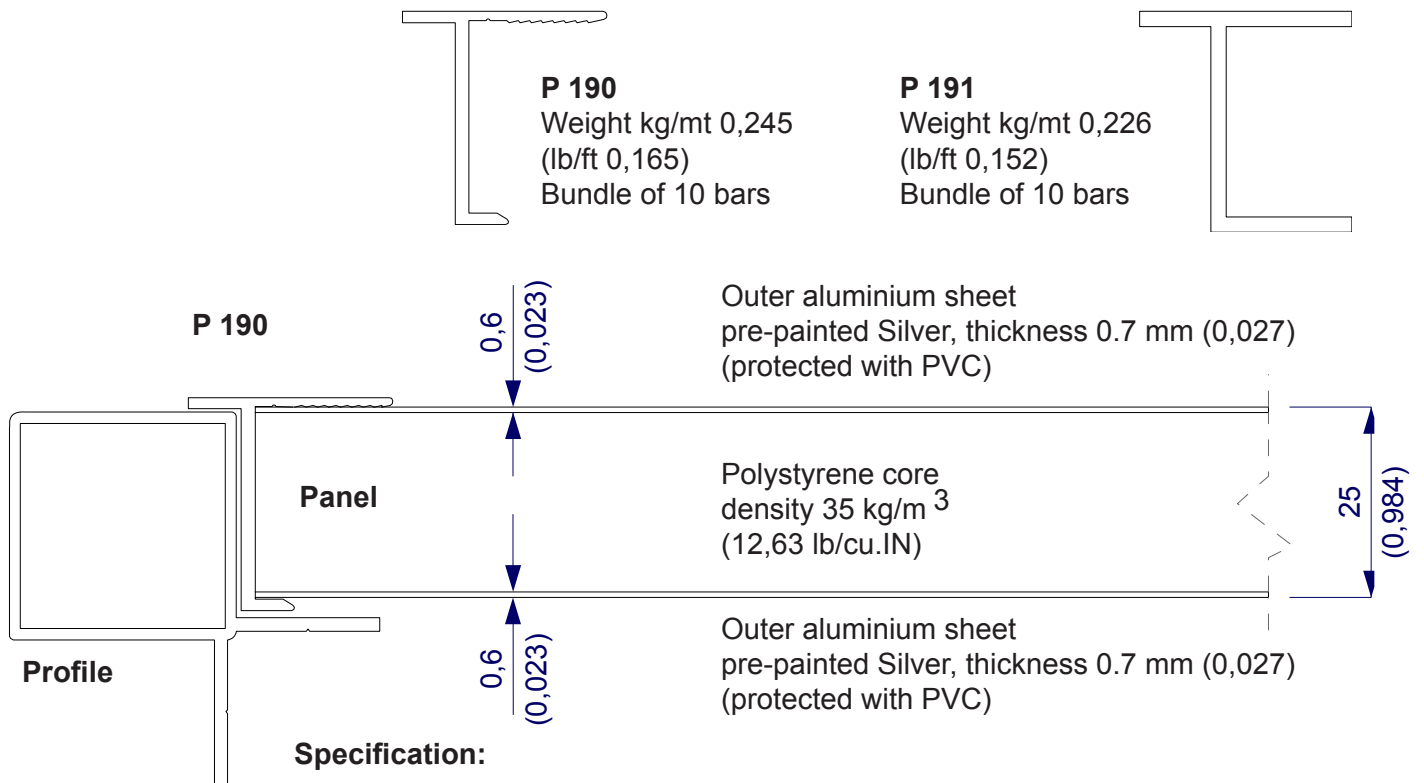
These panels are supplied with a plastic profile to cover the edge of the panel.

We also supply panels with double steel bended sheet and expanded polyurethane core. These panels are available in different colours and finishes (galvanised, stainless steel and plastic coated) and variable thickness.

Please note that these panels can be supplied in aluminium as well as in steel.

Panels' certificates and technical characteristics are available on request.

PTM-Standard aluminium panel: (1000x2000x25 mm)-(39,37x78,74x0,984 inch)
(1000x3000x25 mm)-(39,37x118,11x0,984 inch)

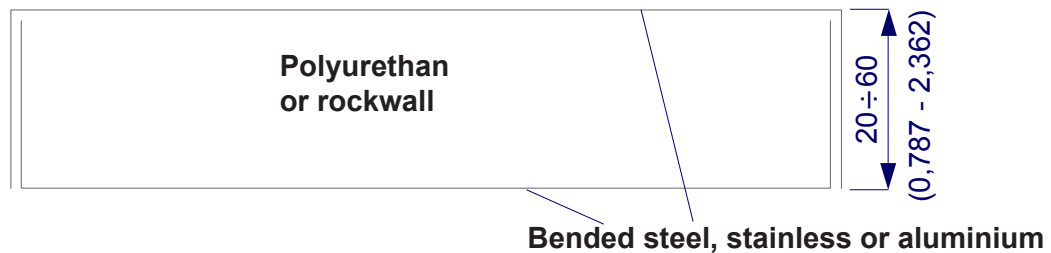


Specification:

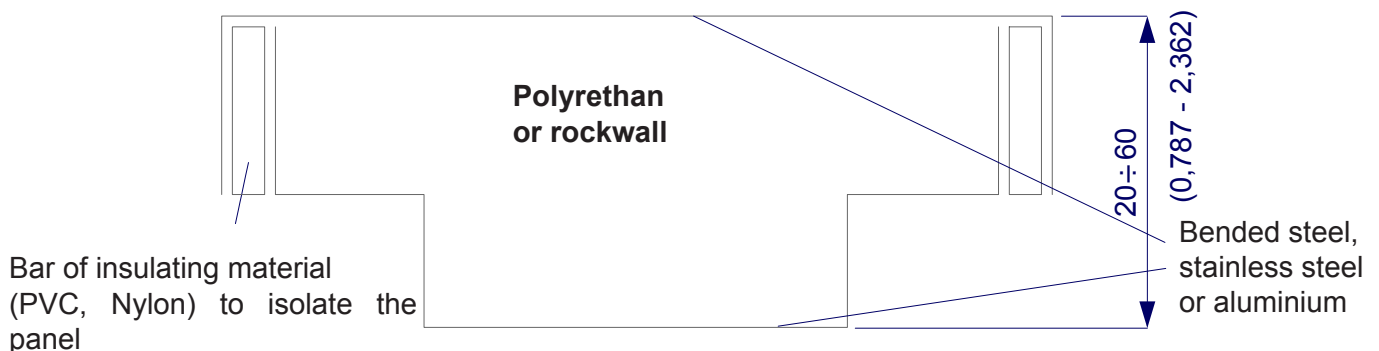
Fire resistance: flame retardant, homologated Class 1 ASTM 2962/68
Operating temperature range: - 40 + 85 C (9,7 F + 185,0 F)
Moisture resistance: water absorption by capillarity: none
Noise level measured: dB 72

CUSTOM-MADE PANEL

SINGLE PANEL



DOUBLE PANEL



PICTURES OF THE AVAILABLE FINISHINGS OF ALUMINIUM PROFILES AND CORNERS

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 except the largest one, which is in aluminium.

The nylon is reinforced with fibreglass and the standard colour is black.

These corners are very strong and easy to assemble.

The largest blunted aluminium corner AS 70/50 is a very high quality product with unique characteristics. It is supplied as a unit with nylon inserts that are designed to make the corner piece an integral part of the profile without gaps, thus preventing collection of water or dirt of any kind, making it the ideal choice for units located in areas where Health and Safety requirements have to be met. Additionally, the nylon fittings improve the tight fit properties between profile and corner, making the assembly easy and safe.

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 in 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 finish, 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.

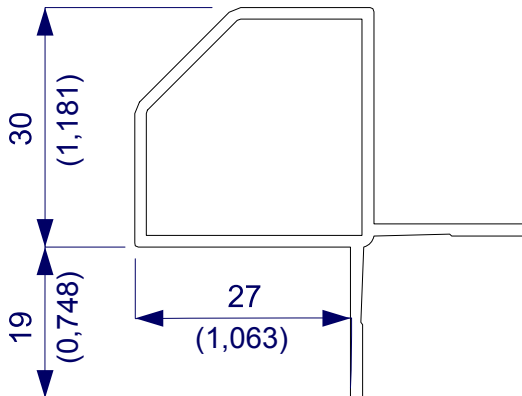
You will see that a number of profiles are labelled BAS which may be used to construct the base, if you need to do so. Please see part 3 below for more information.

PART 3: BASE ACCESSORIES

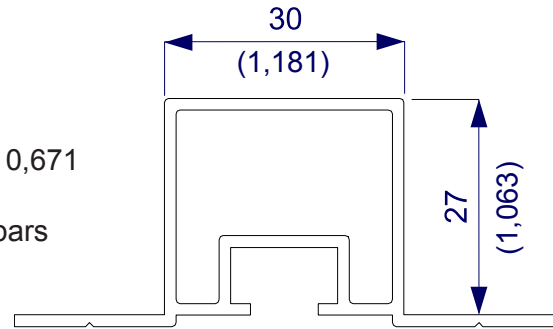
The profile series 30/25, 40/25, 50/25, 50/45 and 70/50 include "base profiles" which are the ideal solution to build the base quickly, easily and economically. The "base profile" is intended to be used as a part of the standard frame, thus avoiding the need for cutting additional aluminium or steel 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 (DS 70 for profile 30/25 and DS100 for all other profiles). These angles are black painted and have holes for rivets or screws. They also have two 45 mm holes to facilitate lifting of the structure by means of belt or metal tube.

The steel foot DS105 is also painted black and it is extremely useful when the unit needs to be placed above the ground or moved by forklift trucks.

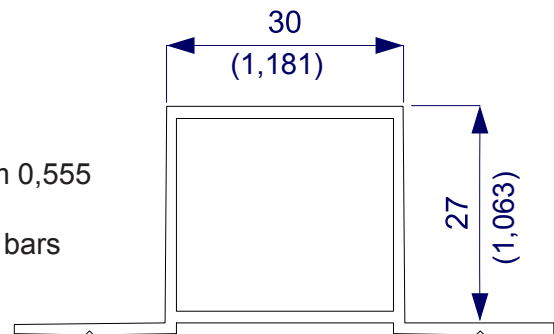
Part 1: Blunted profile (section 30 panel 25 mm; nylon corner)



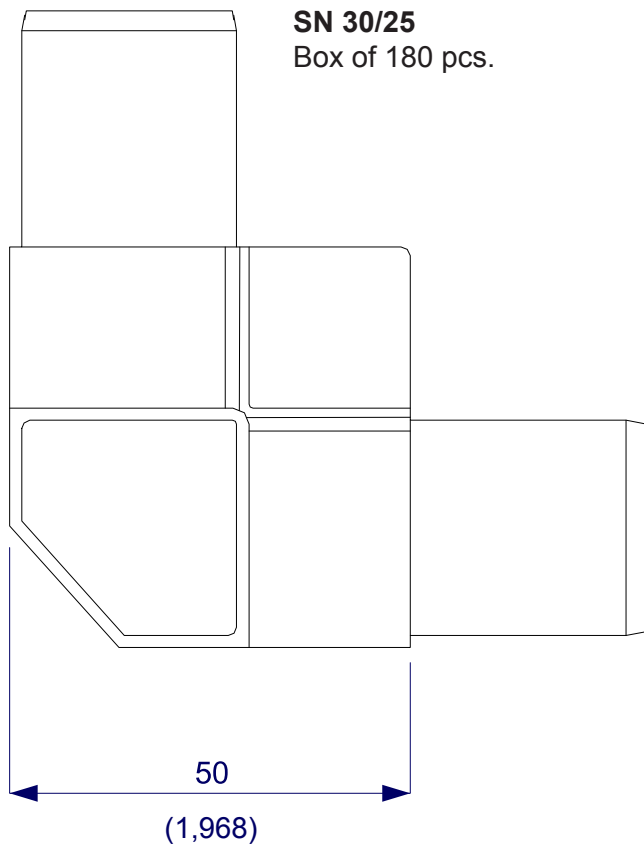
P 231/25
Weight kg/m 0,671
(lb/ft 0,450)
Bundle of 6 bars



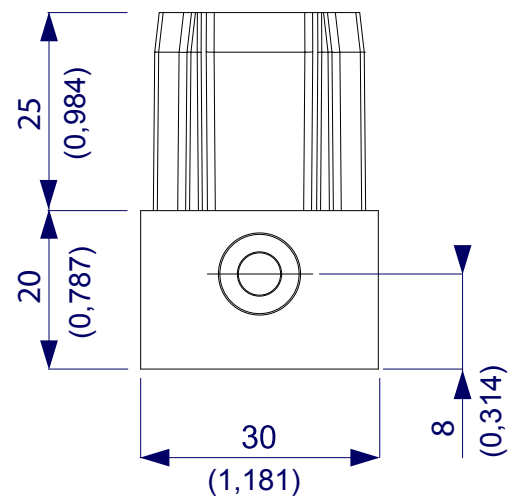
P 232/25
Weight kg/m 0,555
(lb/ft 0,370)
Bundle of 6 bars



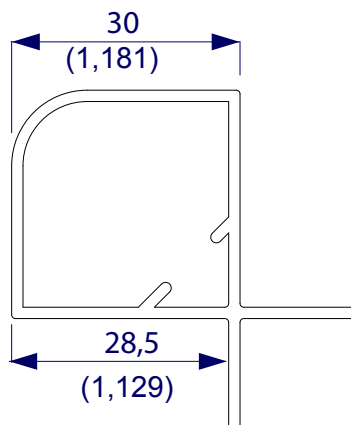
S 1300/25
Weight kg/m 0,586
(lb/ft 0,418)
Bundle of 4 bars



SN 30/25
Box of 180 pcs.



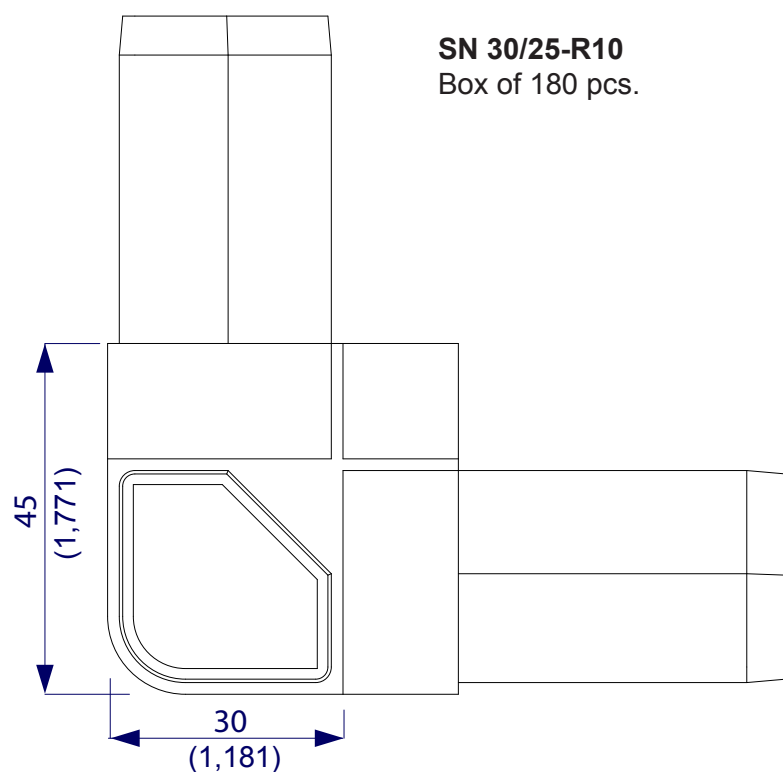
N 30JP
Box of 180 pcs.

Part 1: Blunted profile (section **30** panel **25** mm; nylon corner)**S 1300/25-R10**

Weight kg/m 0,586

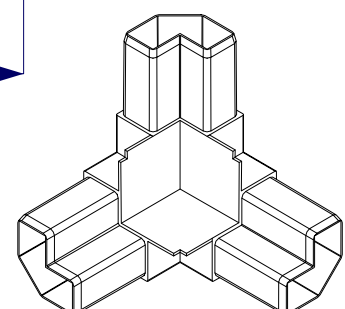
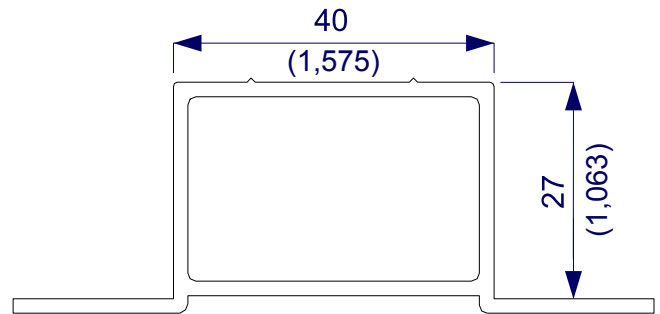
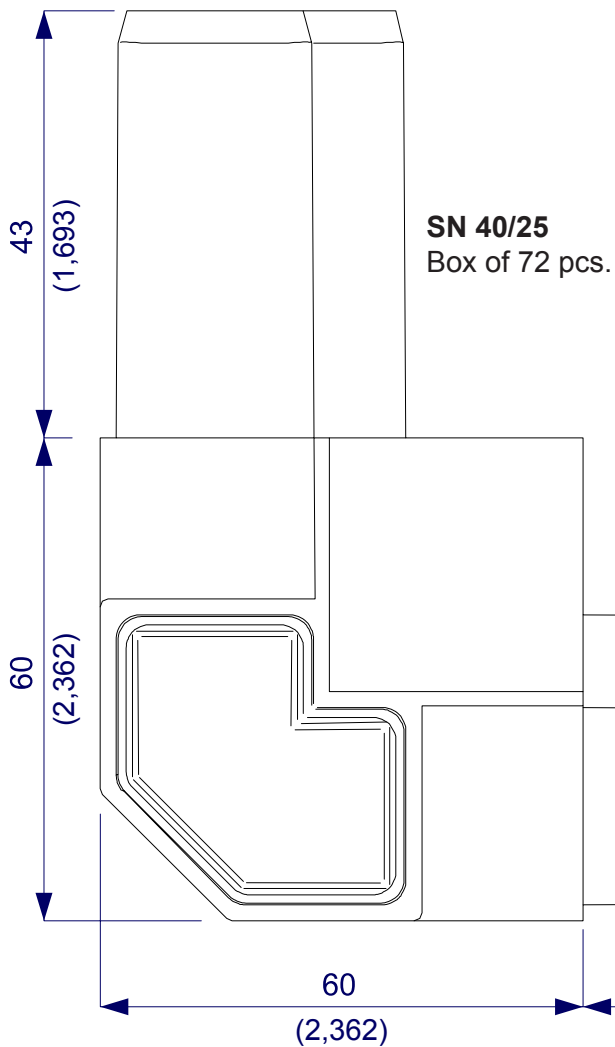
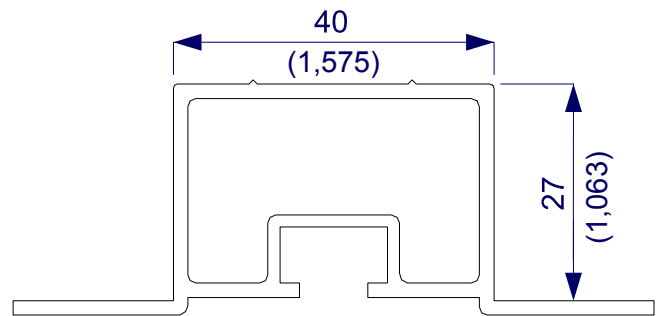
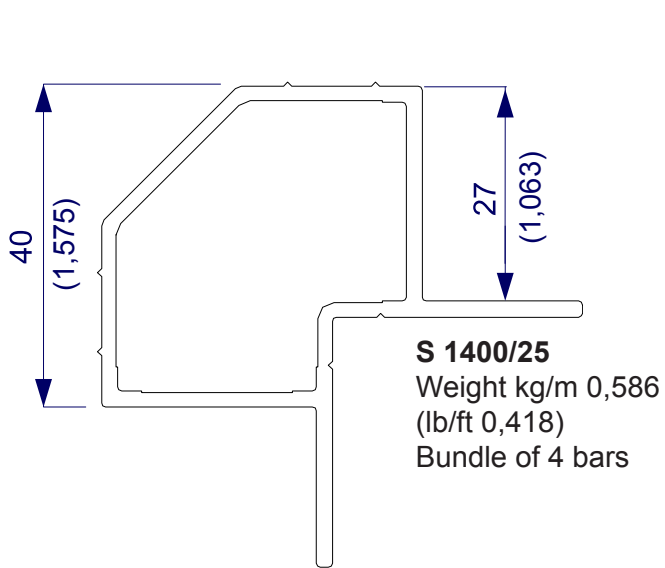
(lb/ft 1,292)

Bundle of 4 bars

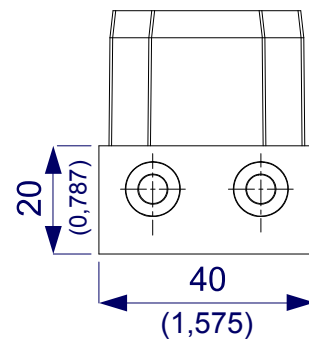
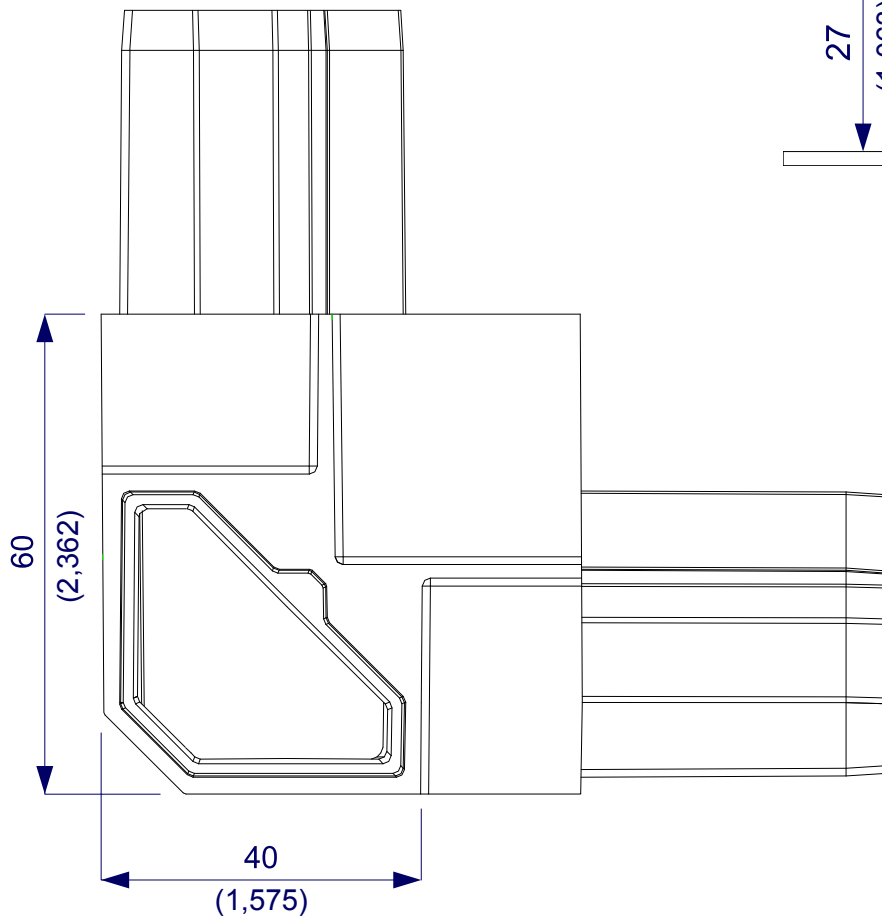
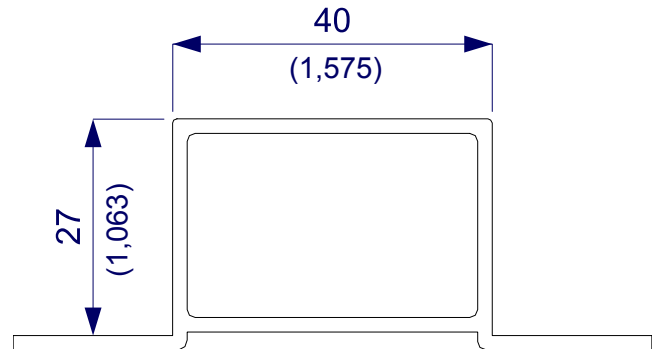
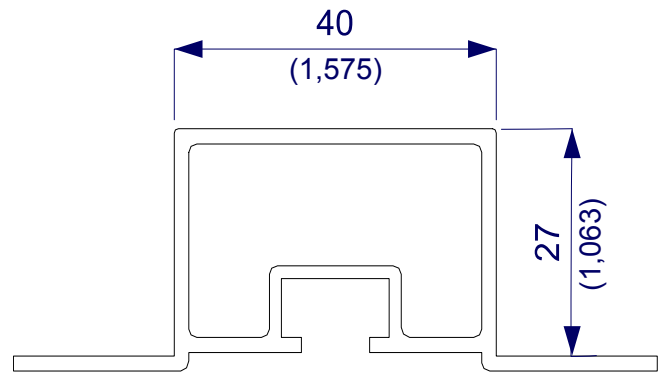
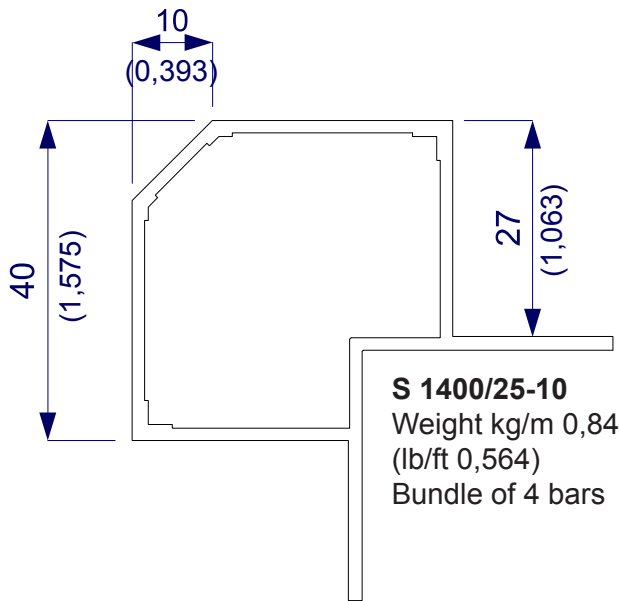
**SN 30/25-R10**

Box of 180 pcs.

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

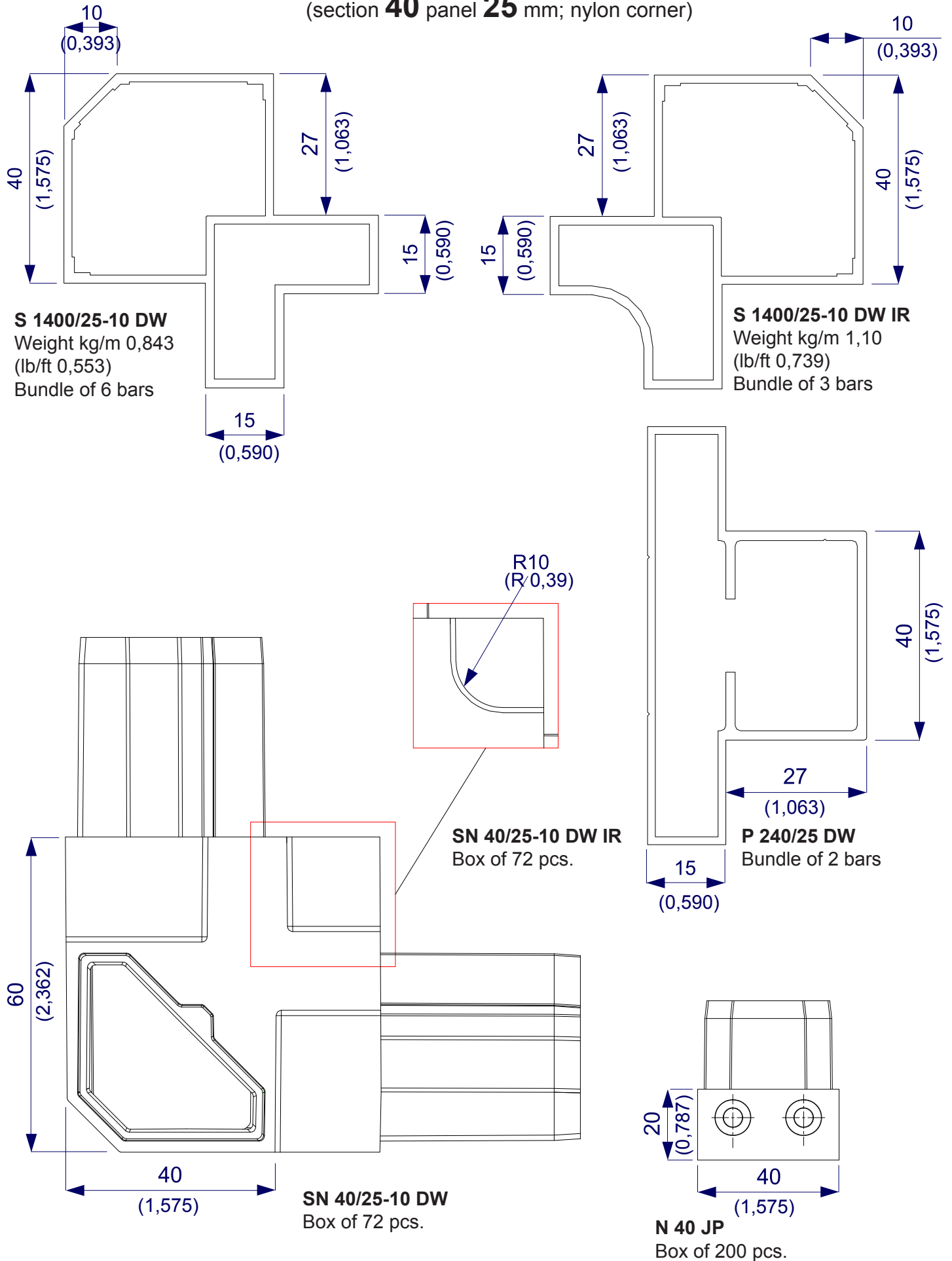


Part 1: Blunted profile (section **40** panel **25** mm; nylon corner)

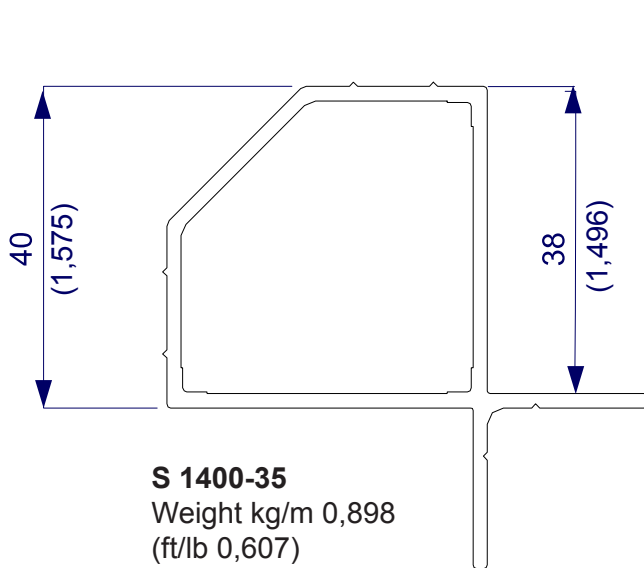


Part 1: Blunted profile double wall to hide the screws

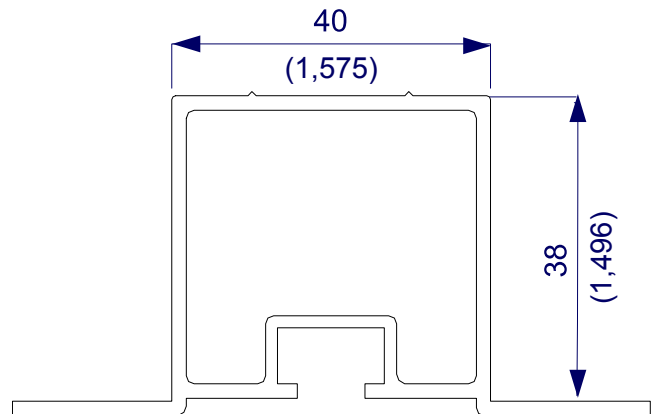
(section **40** panel **25** mm; nylon corner)



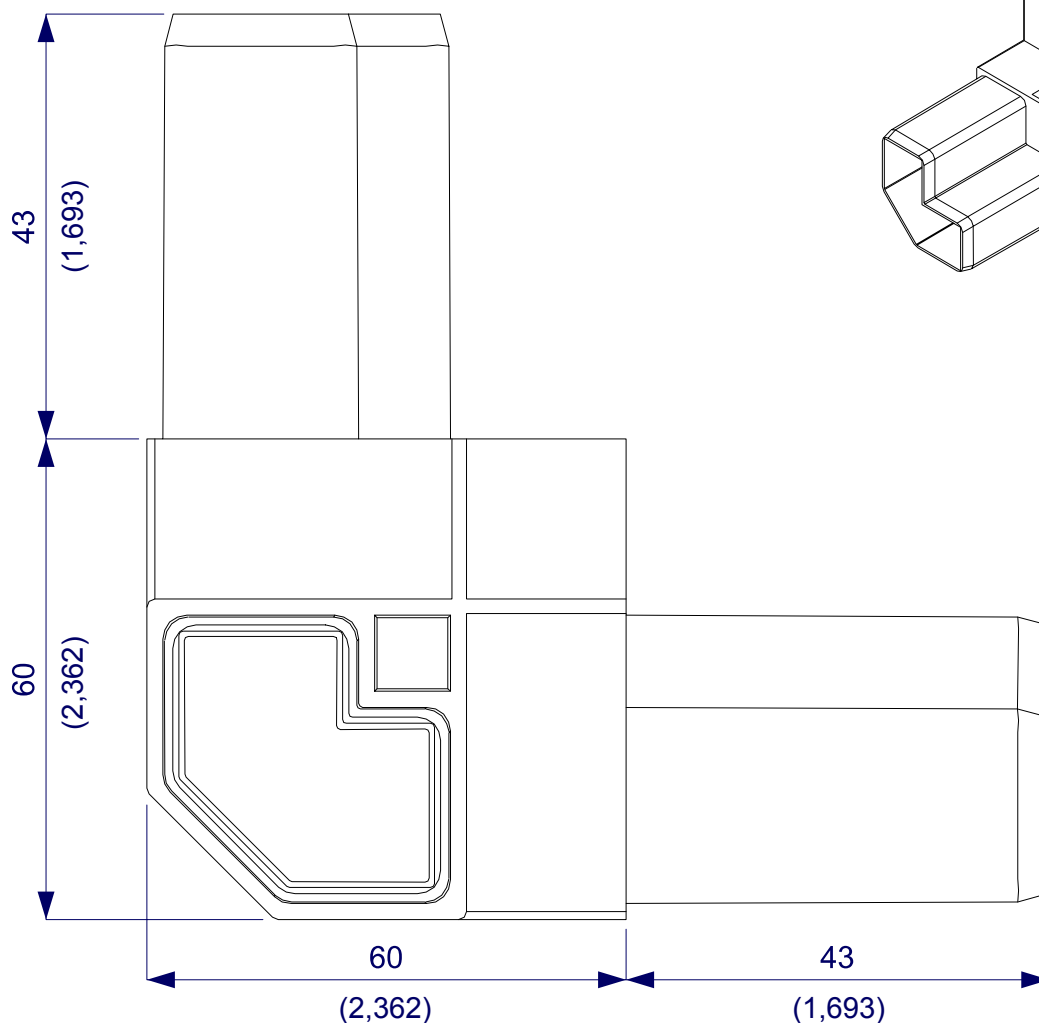
Part 1: Blunted profile (section **40** panel **35** mm; nylon corner)



S 1400-35
Weight kg/m 0,898
(ft/lb 0,607)
Bundle of 4 bars

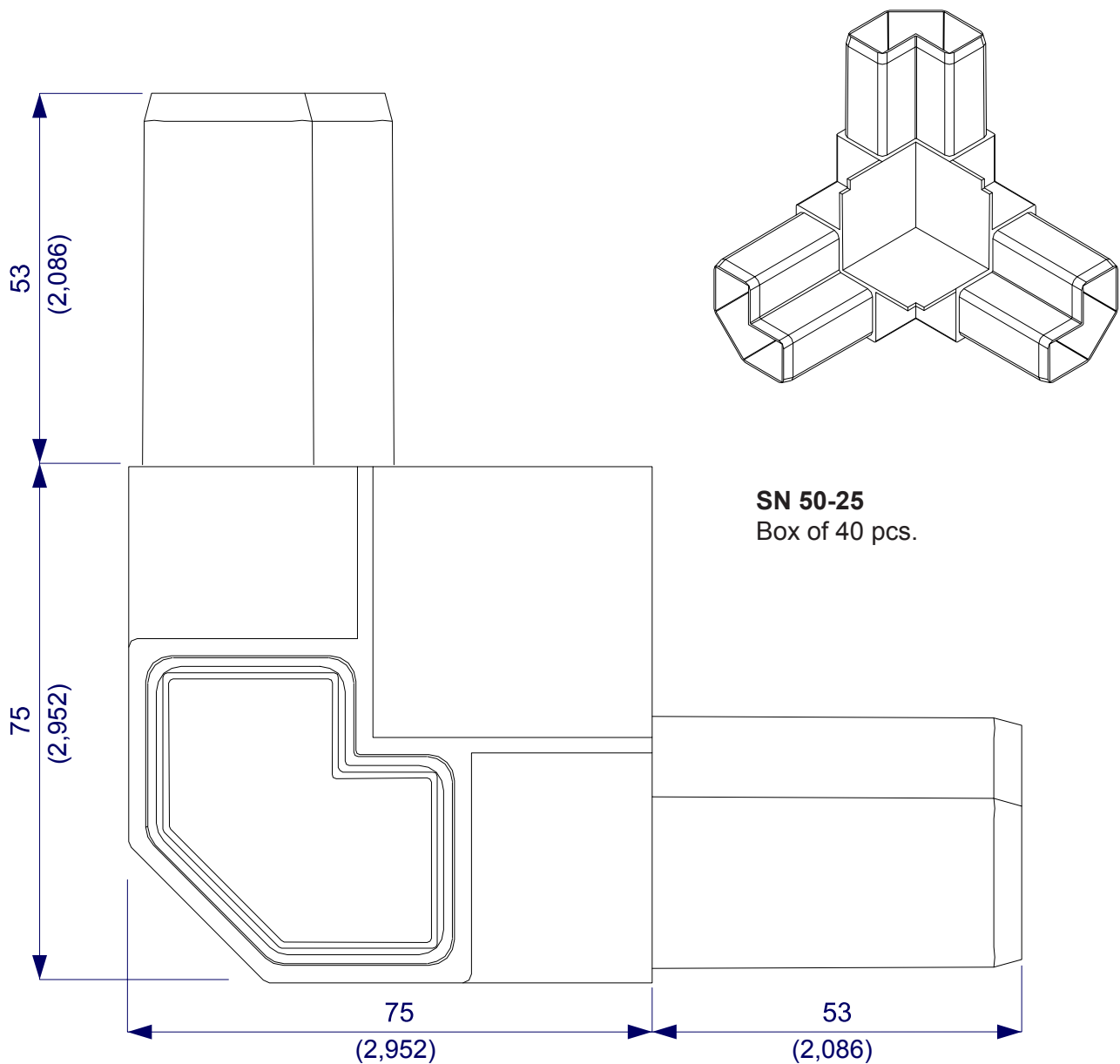
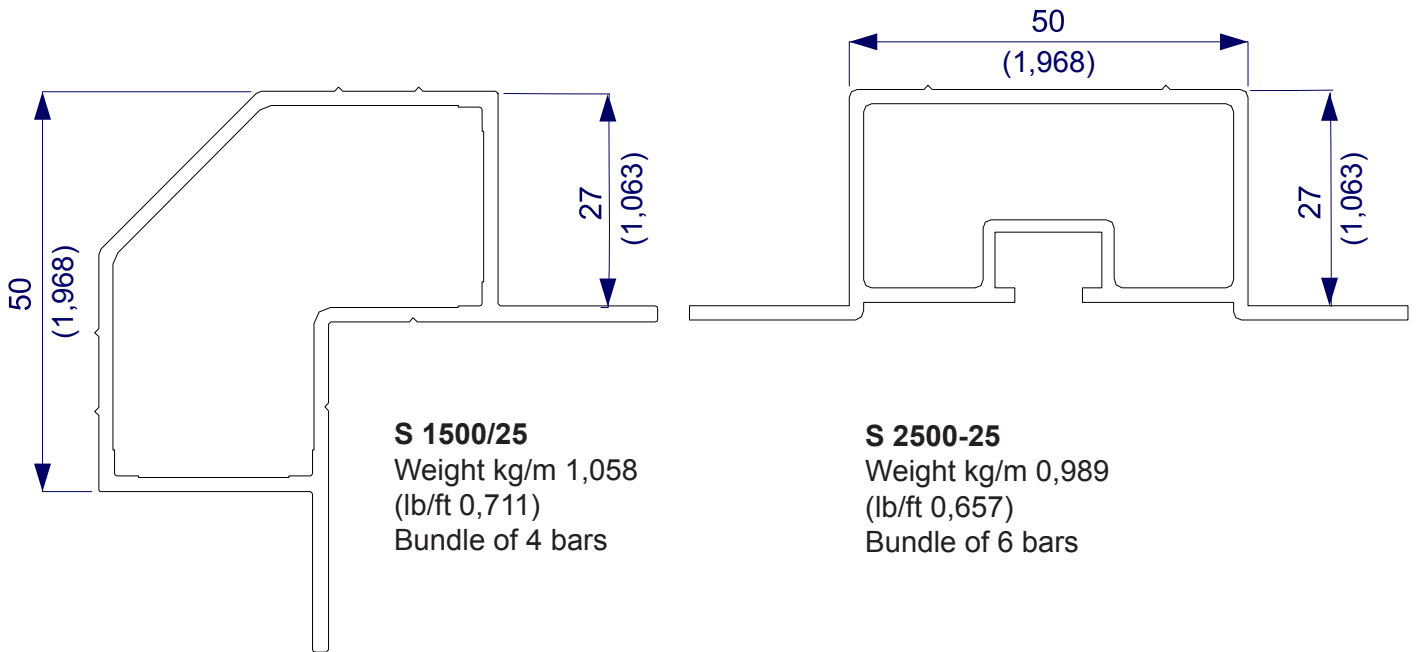


S 2400-35
Weight kg/m 0,978
(ft/lb 0,659)
Bundle of 6 bars

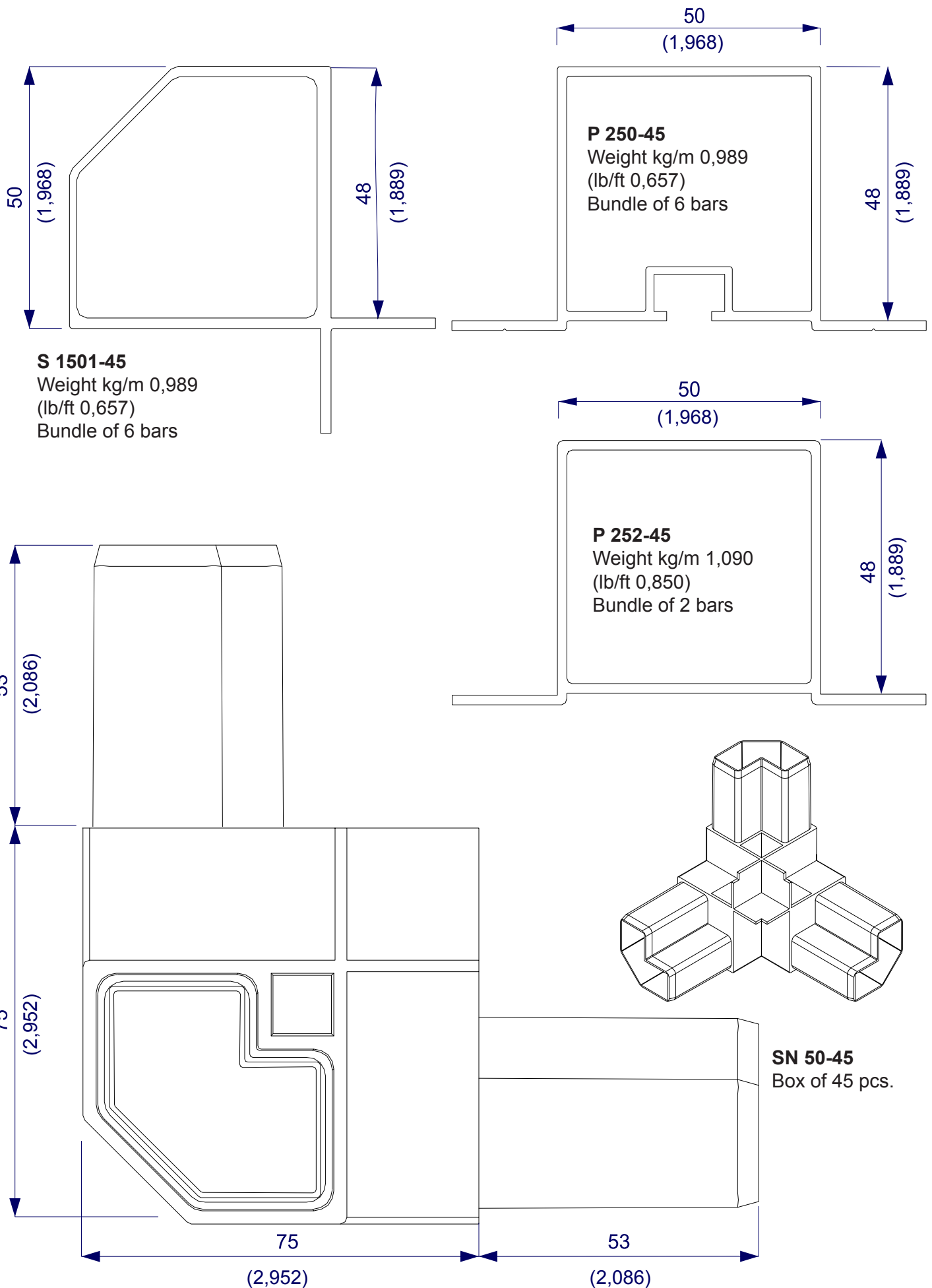


SN 40-38
Box of 72 pcs.

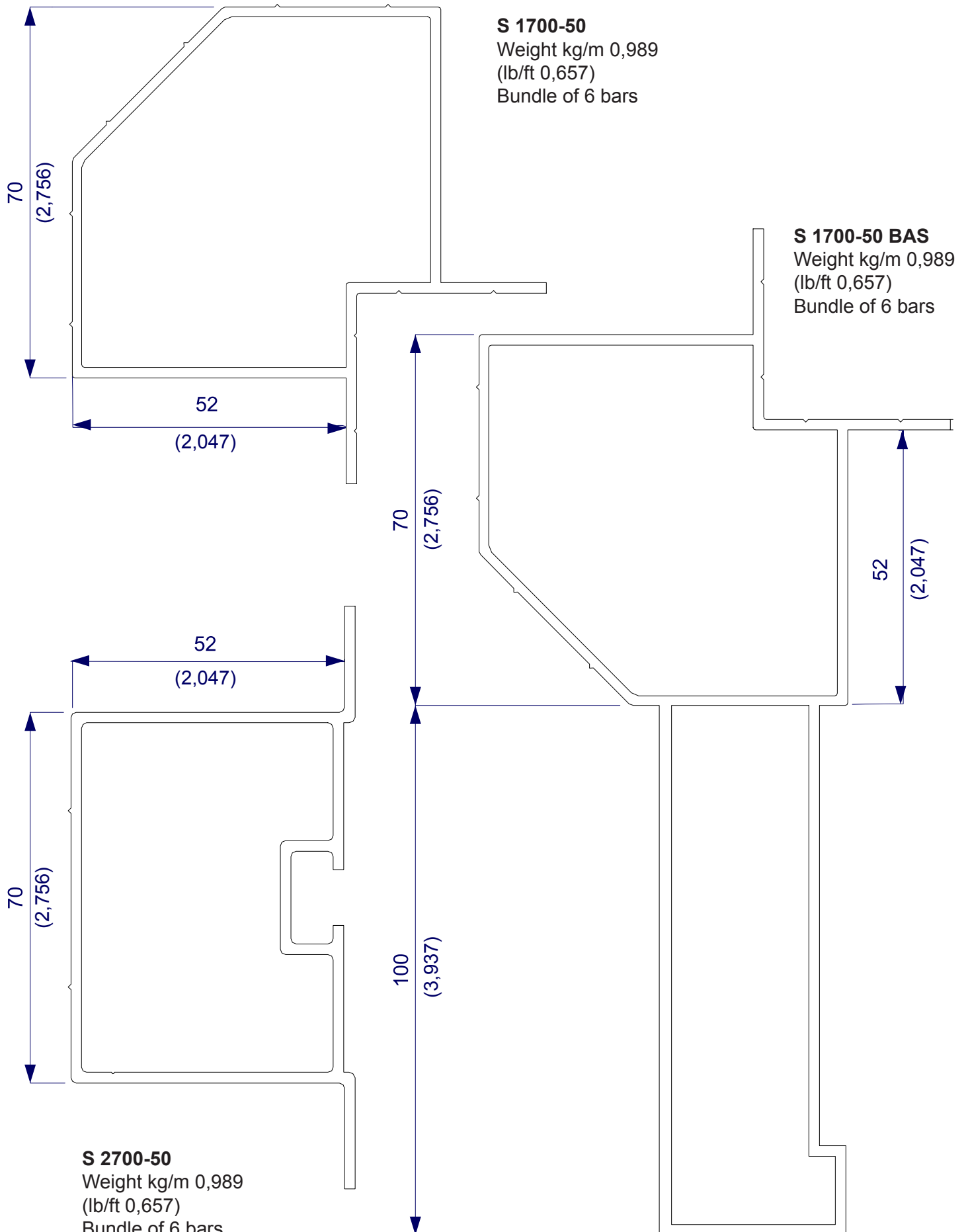
Part 1: Blunted profile (section **50** panel **25** mm; nylon corner)



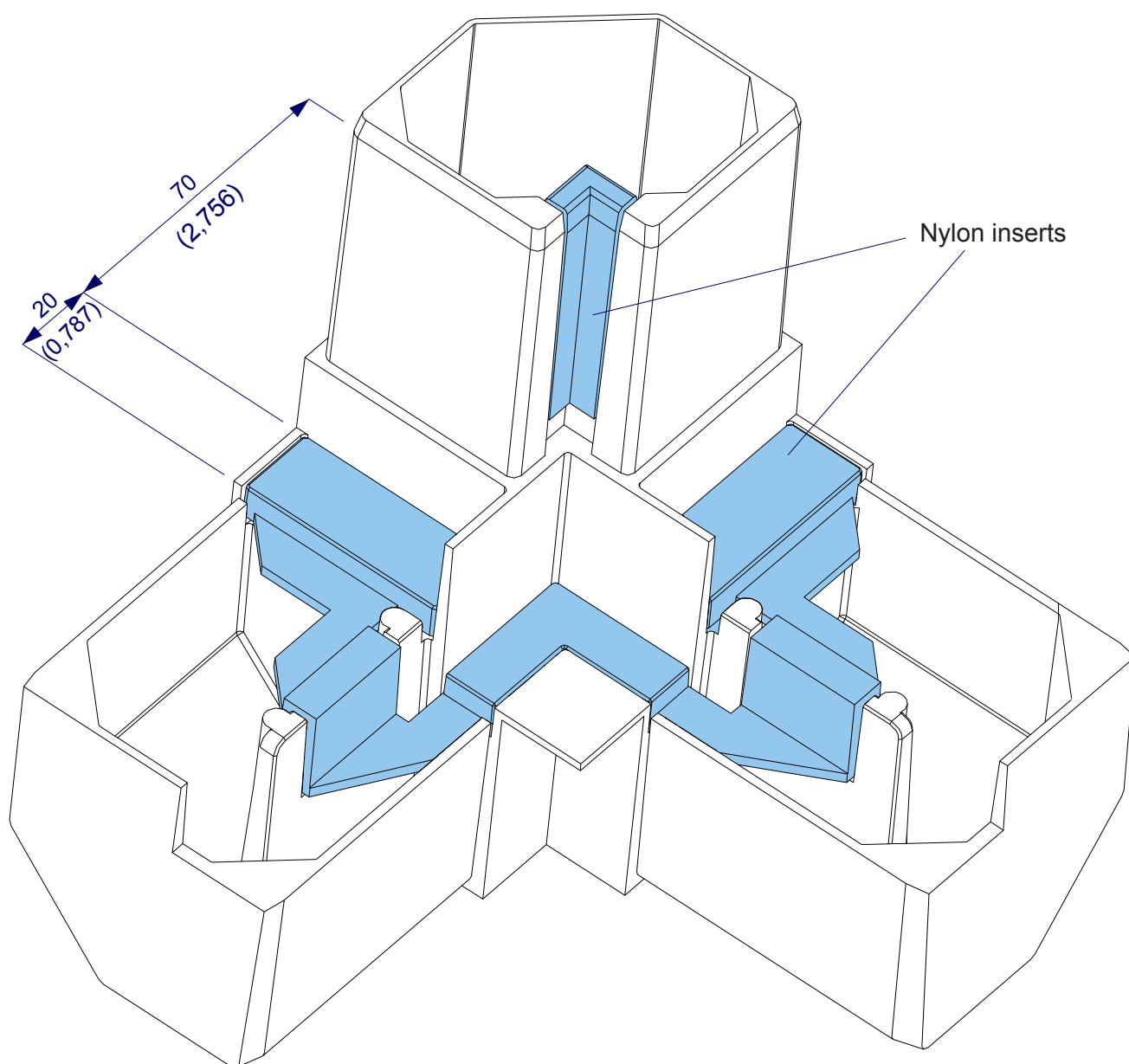
Part 1: Blunted profile (section **50** panel **45** mm; nylon corner)



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

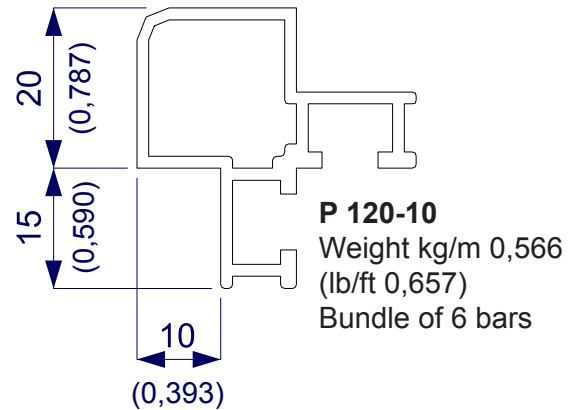
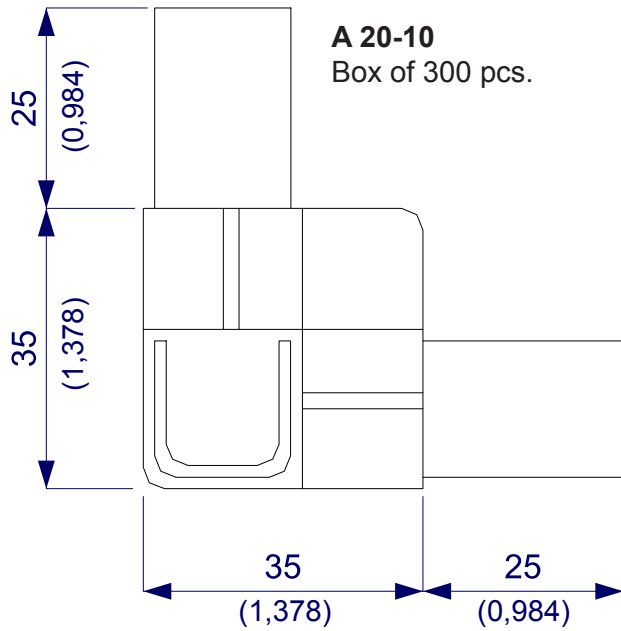


Part 1: 3D view of blunted aluminium corner (section **70** panel **50** mm)

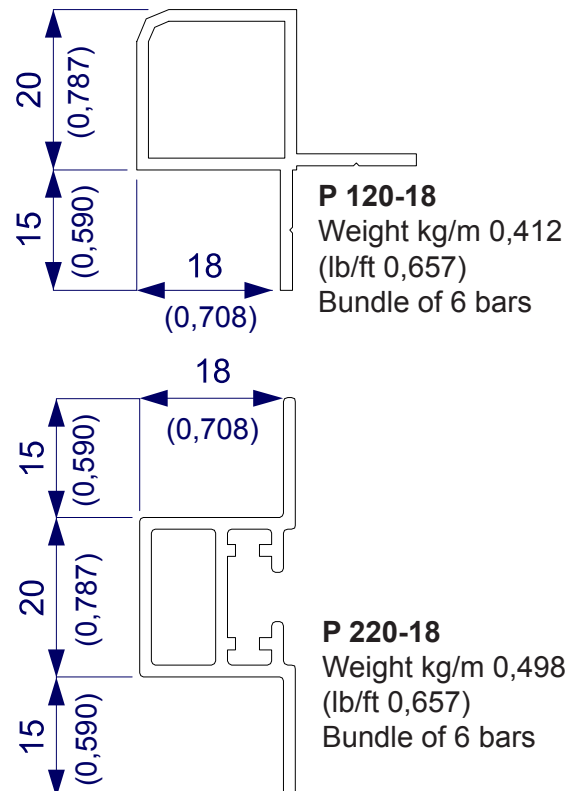
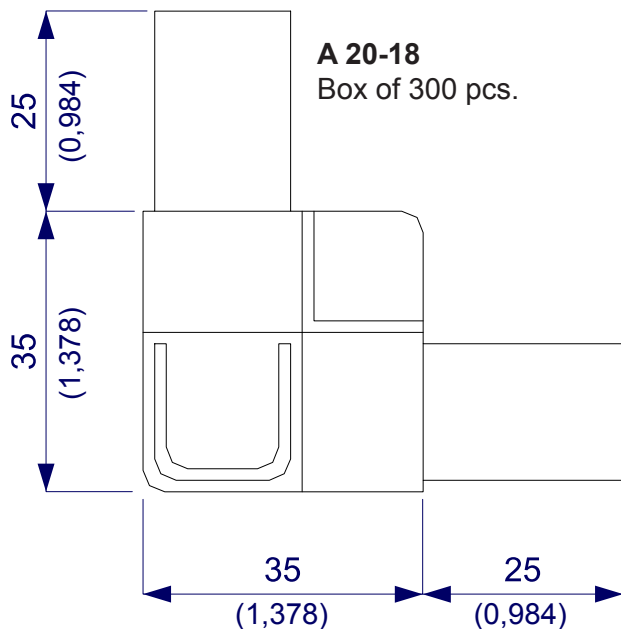


AS 70/50
Box of 16 pcs.

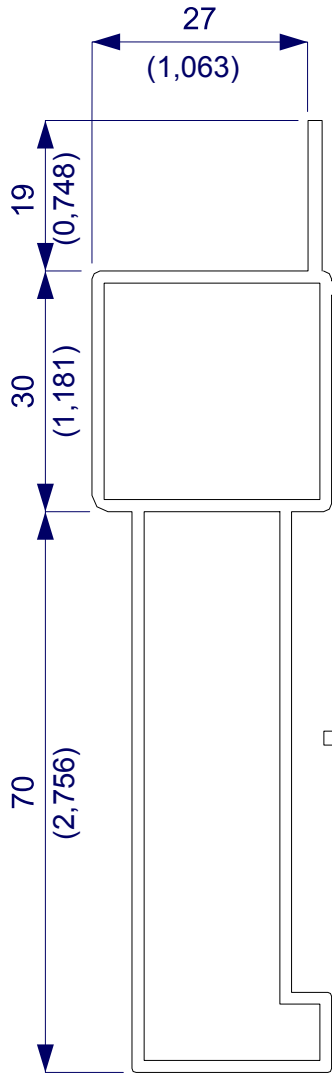
Part 2: Square profiles (section **20** panel **10** mm; aluminium corner)



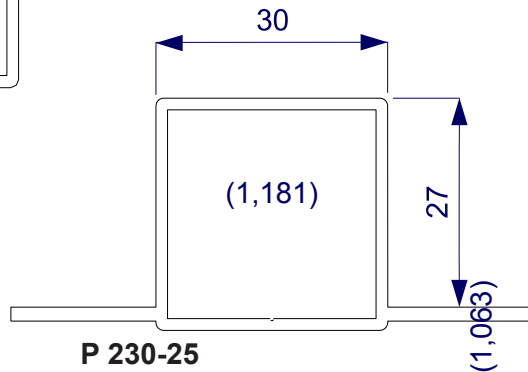
Square profile (section **20** panel **18** mm; aluminium corner)



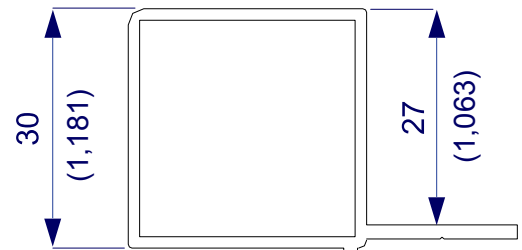
Part 2: Square profiles (section 30 panel 25 mm; aluminium and nylon corner)



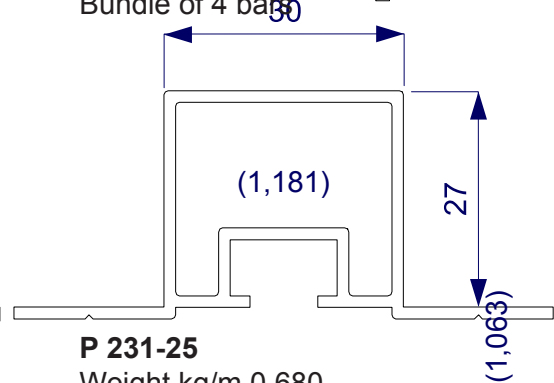
P 130-25 BAS
Weight kg/m 1,396
(lb/ft 0,823)
Bundle of 2 bars



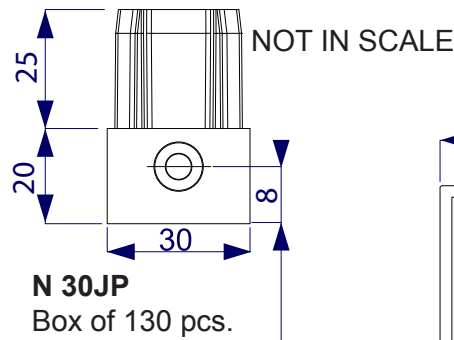
P 230-25
Weight kg/m 0,65
(lb/ft 0,437)
Bundle of 6 bars



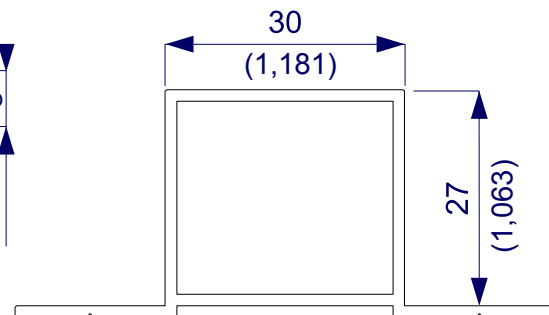
P 130-25
Weight kg/m 0,625
(lb/ft 0,420)
Bundle of 4 bars



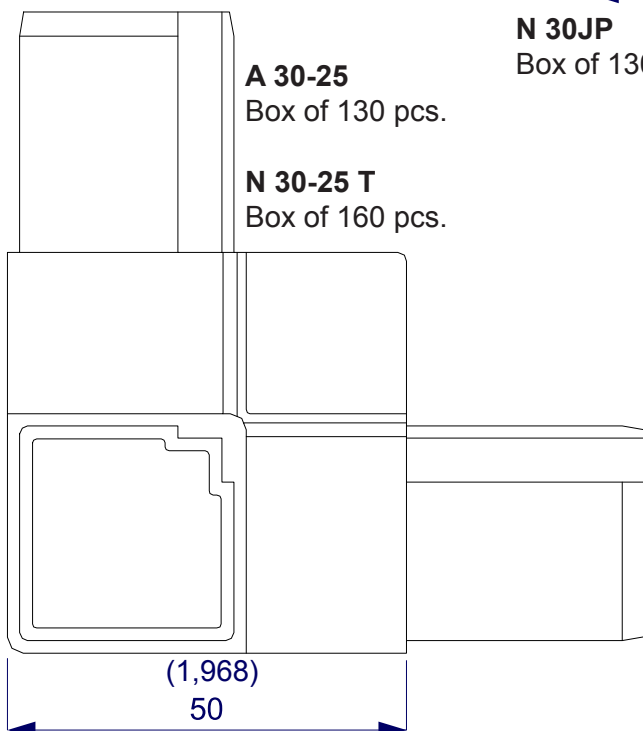
P 231-25
Weight kg/m 0,680
(lb/ft 0,450)
Bundle of 6 bars



N 30JP
Box of 130 pcs.

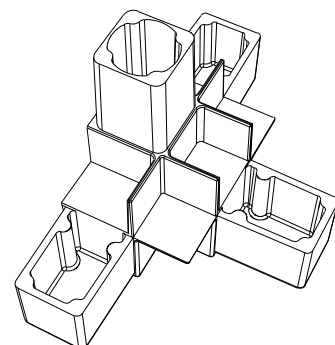


P 232-25
Weight kg/m 0,555
(lb/ft 0,365)
Bundle of 6 bars



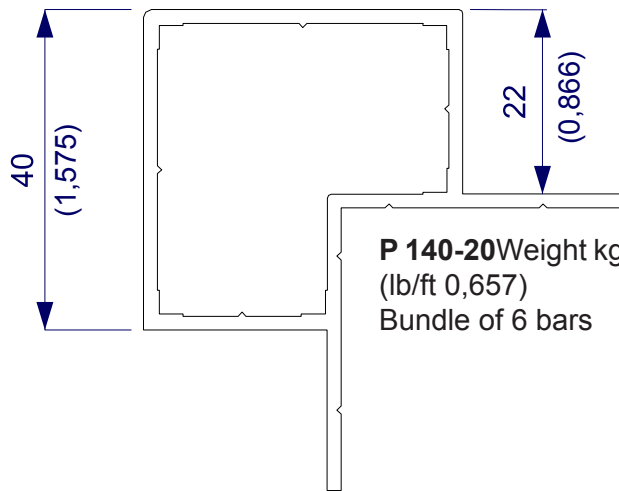
A 30-25
Box of 130 pcs.

N 30-25 T
Box of 160 pcs.

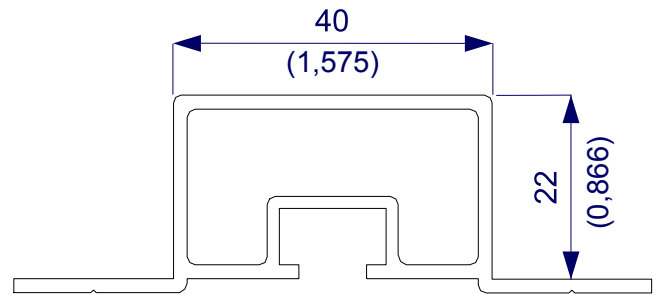


N 30-25 4W
Box of 100 pcs.

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

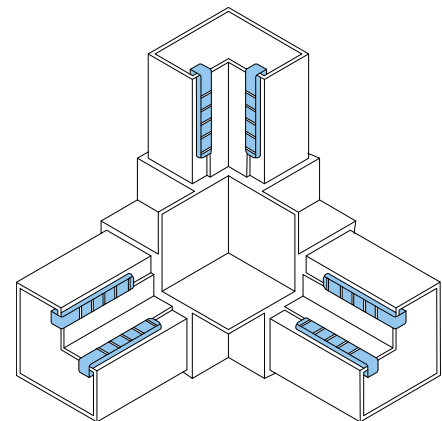
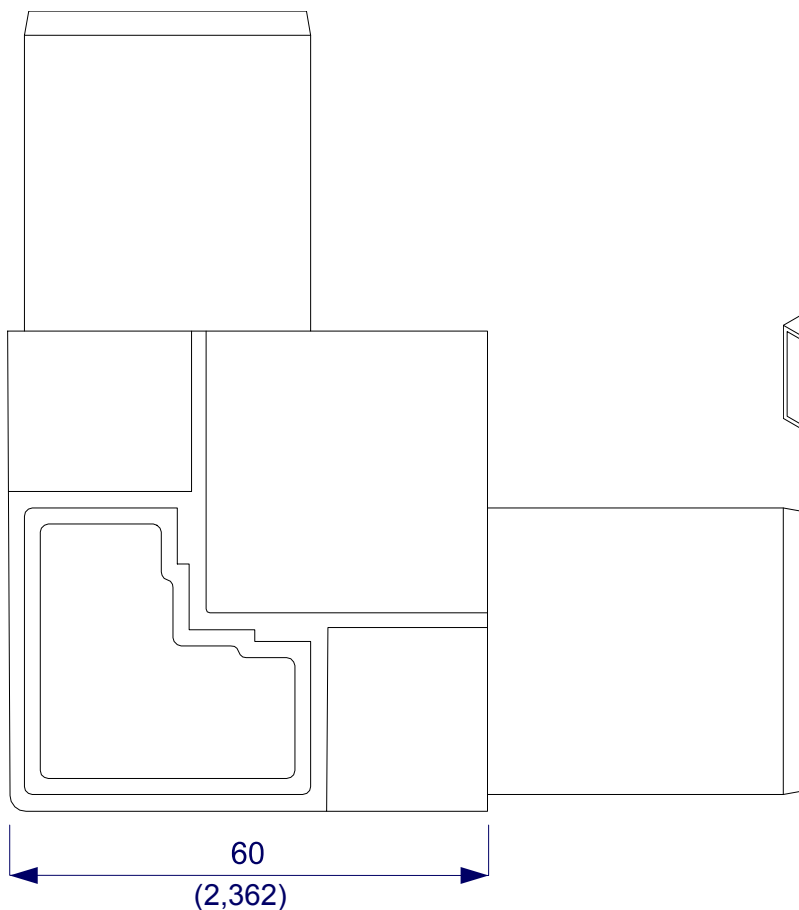
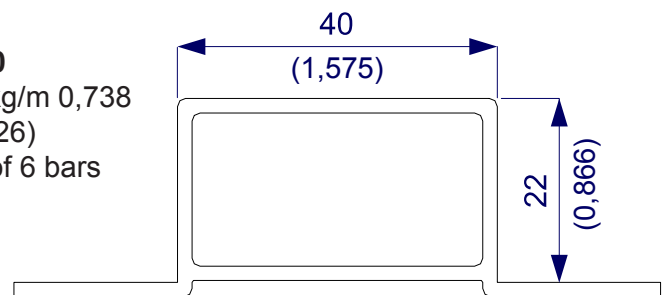


P 140-20 Weight kg/m 0,989
(lb/ft 0,657)
Bundle of 6 bars



P 240-20
Weight kg/m 0,833
(lb/ft 0,544)
Bundle of 6 bars

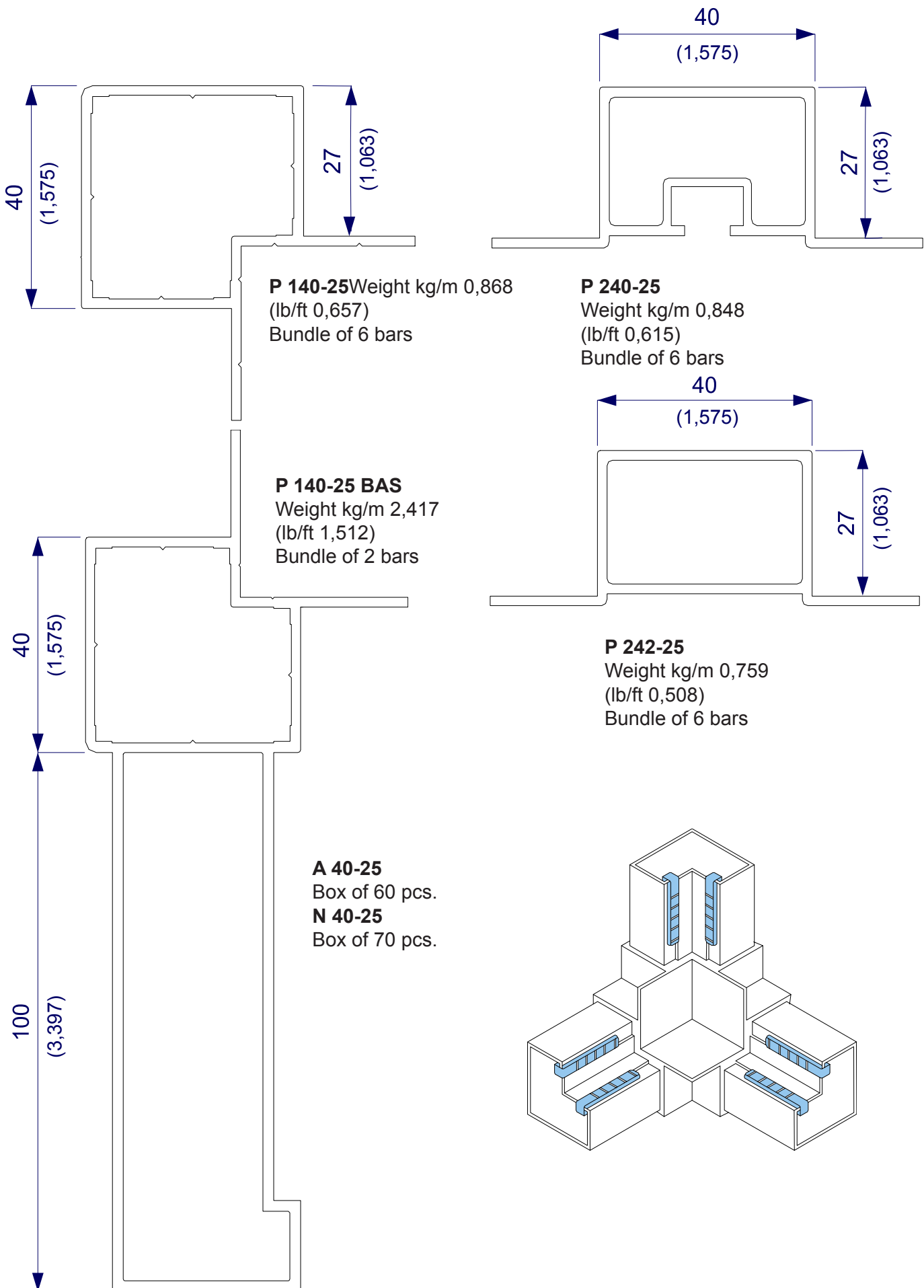
P 242-20
Weight kg/m 0,738
(ft/lb 0,526)
Bundle of 6 bars



A 40-20
Box of 60 pcs.

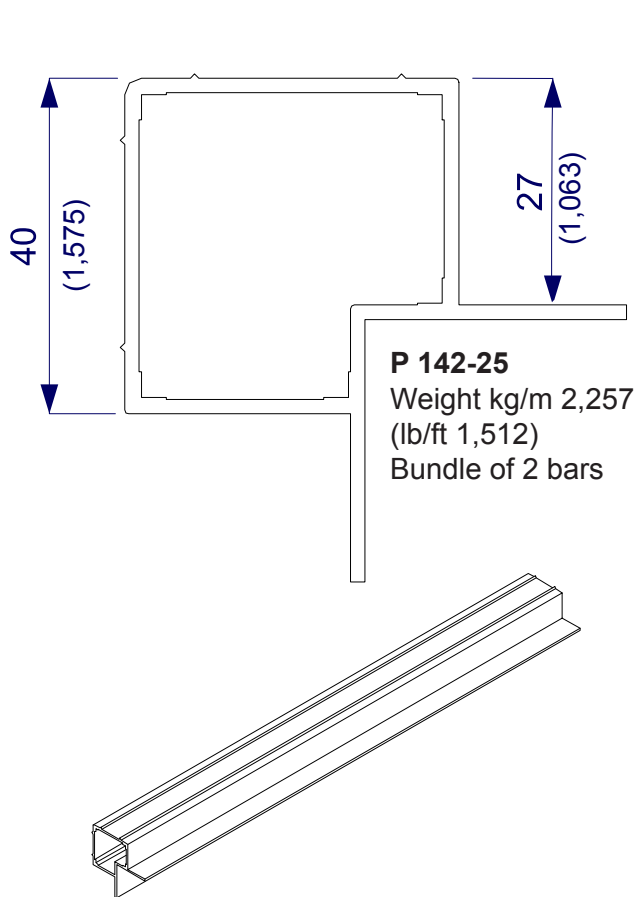
N 40-20
Box of 80 pcs.

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

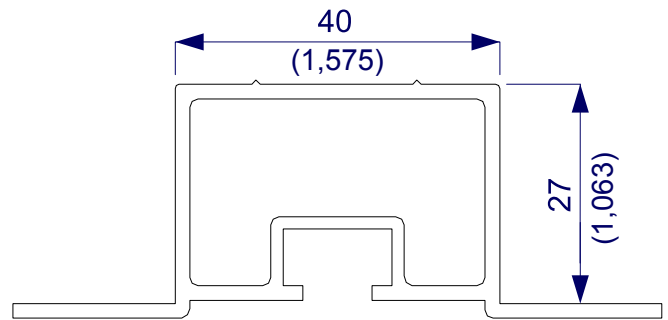


Part 2: Square profile with ridges to prevent scratches

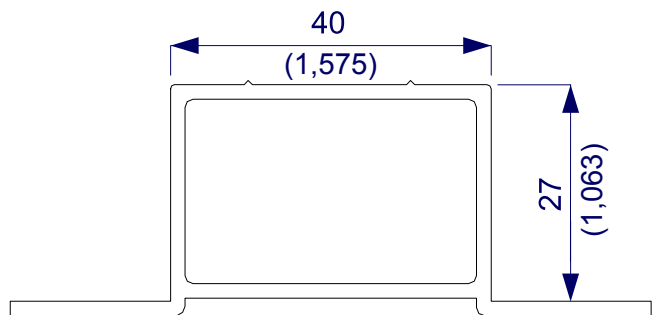
(section **40** panel **25** mm; aluminium and nylon corner)



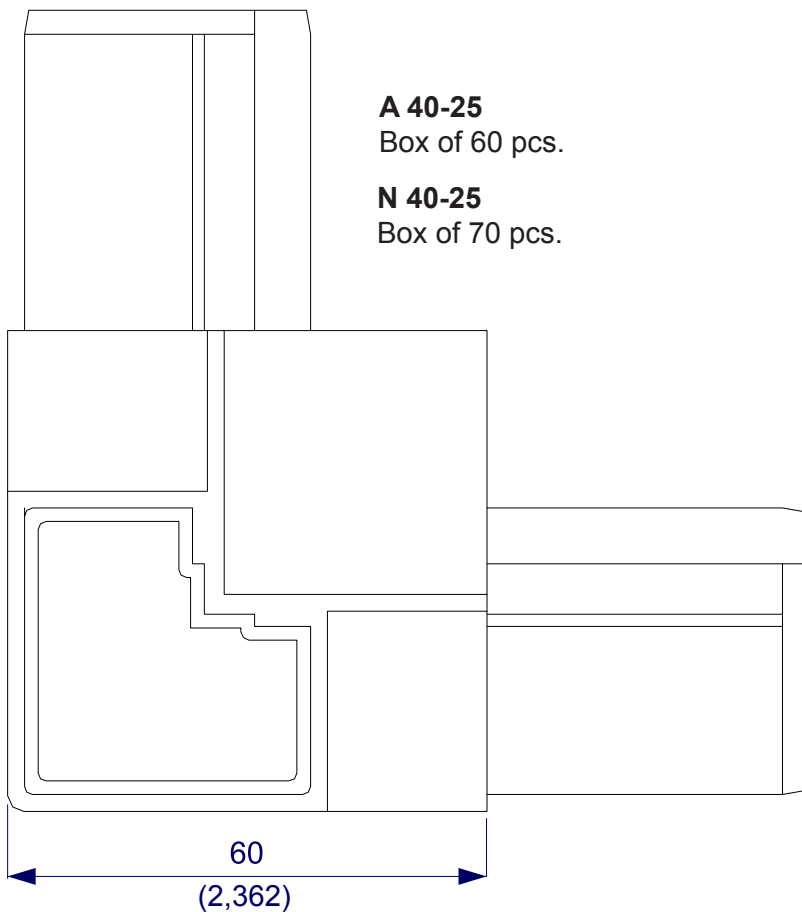
P 142-25
Weight kg/m 2,257
(lb/ft 1,512)
Bundle of 2 bars



S 2400-25
Weight kg/m 0,870
(lb/ft 0,584)
Bundle of 6 bars

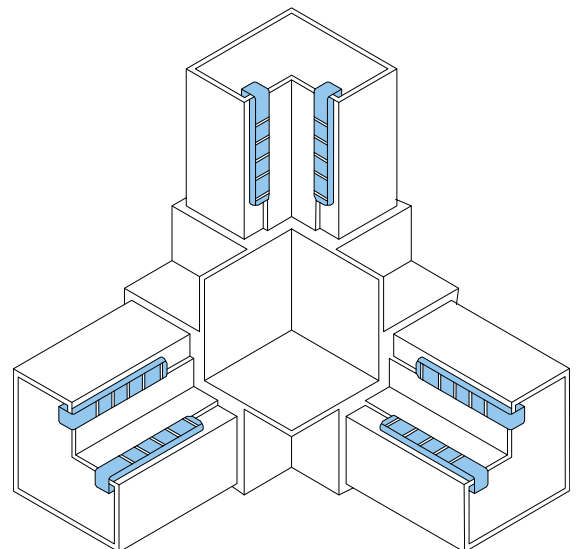


S 2401-25
Weight kg/m 0,843
(lb/ft 0,565)
Bundle of 6 bars



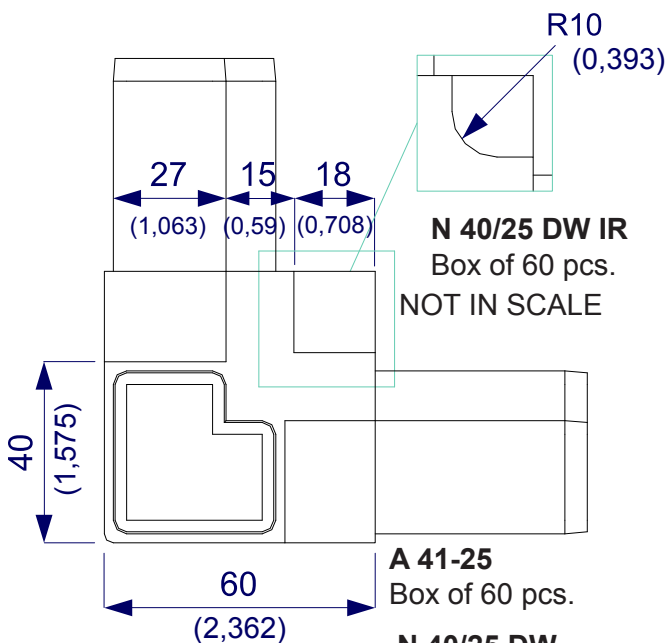
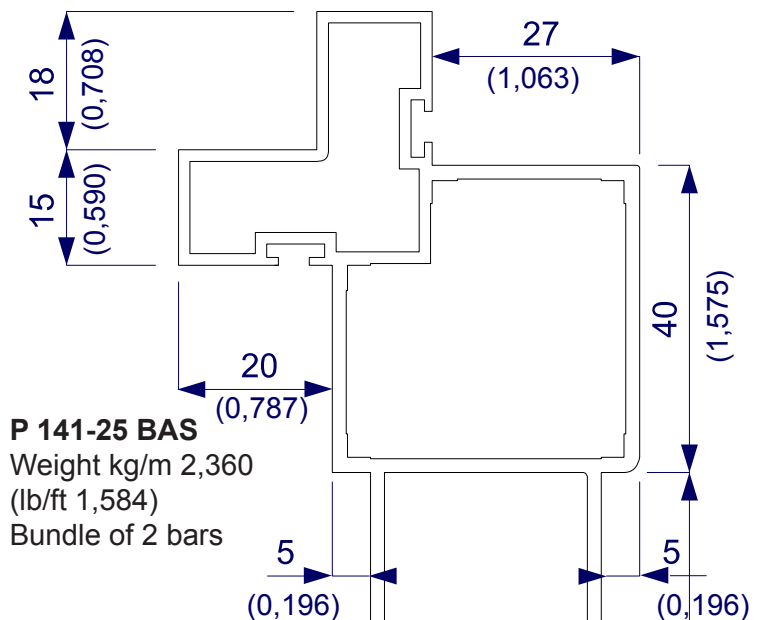
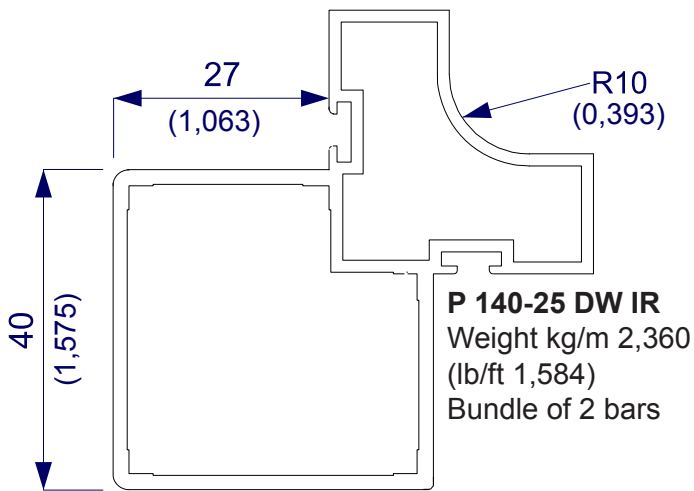
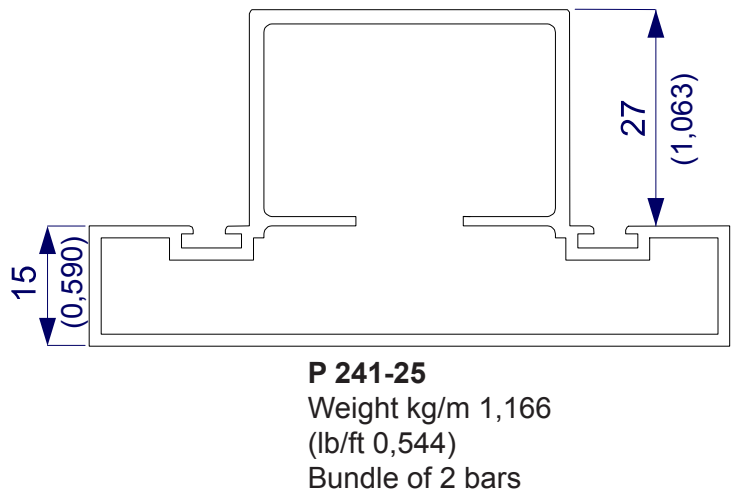
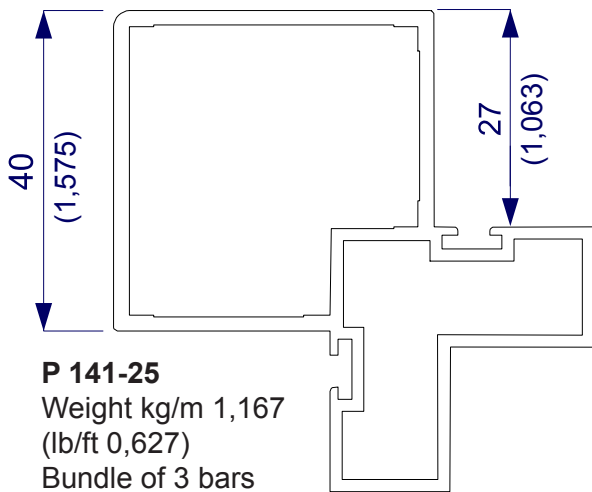
A 40-25
Box of 60 pcs.

N 40-25
Box of 70 pcs.



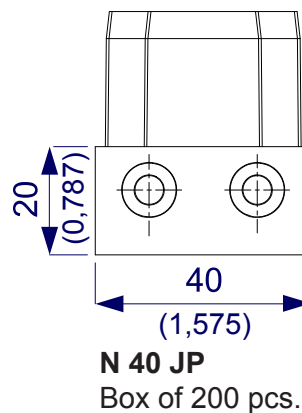
Part 2: Square profile double section, to hide the screws

(section **40** panel **25** mm; nylon corner)



N 40/25 DW IR
Box of 60 pcs.
NOT IN SCALE

NOT IN SCALE



N 40/25 DW
Box of 70 pcs.

GASKETS

G 63
Box of 400 mt.



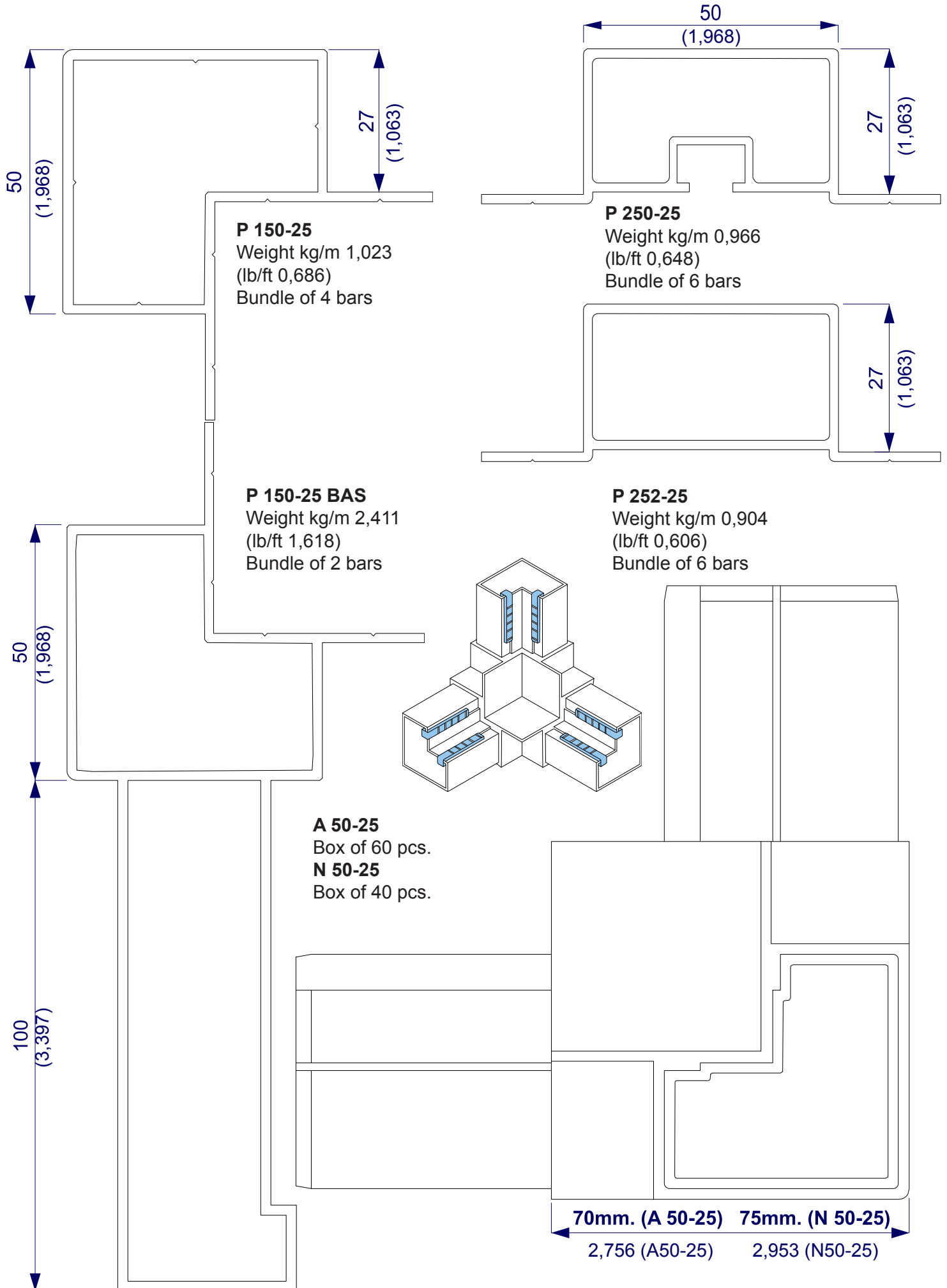
G 59
Box of 400 mt.



G 5.6
Box of 400 mt.

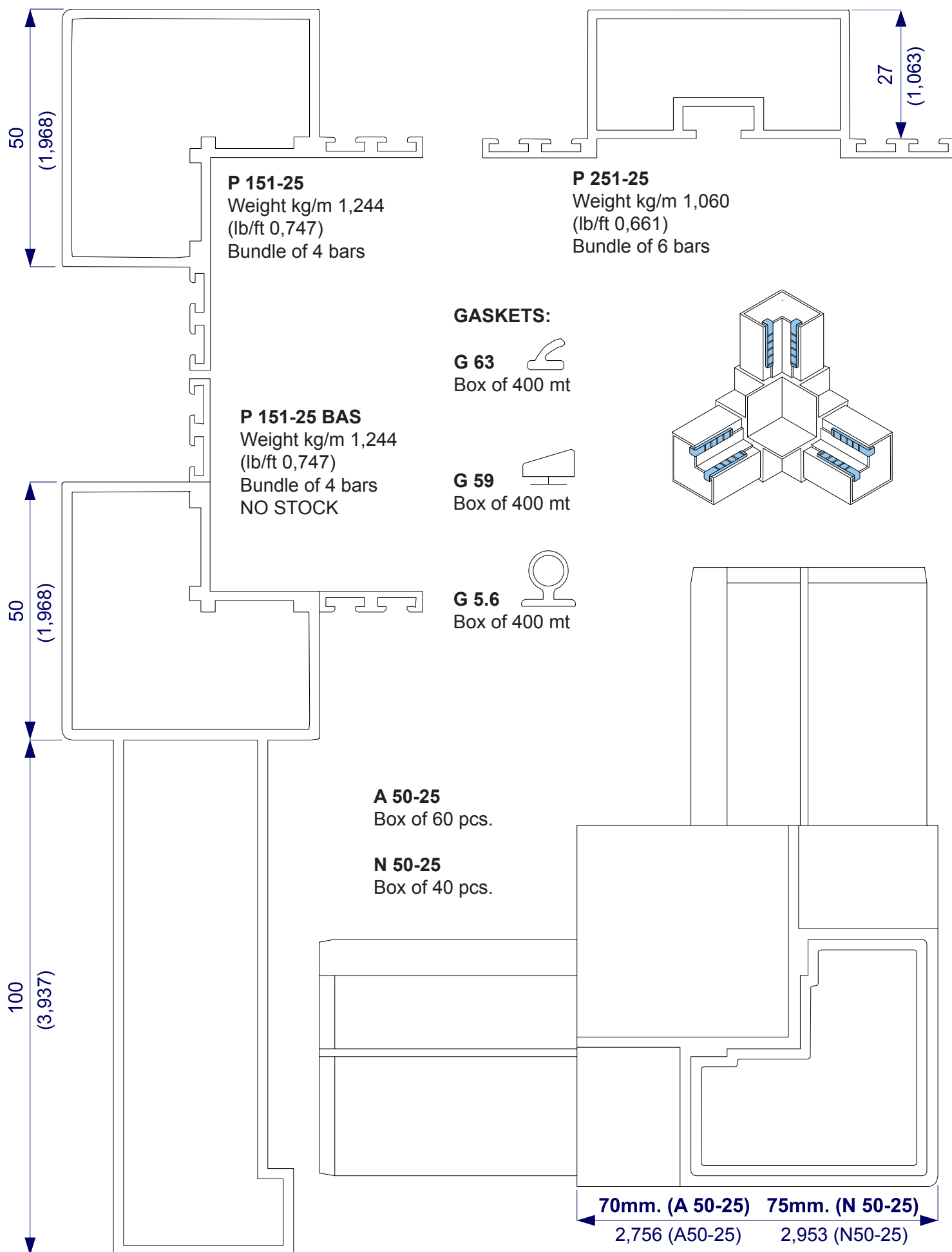


Part 2: Square profile (section 50 panel 25 mm; aluminium and nylon corner)

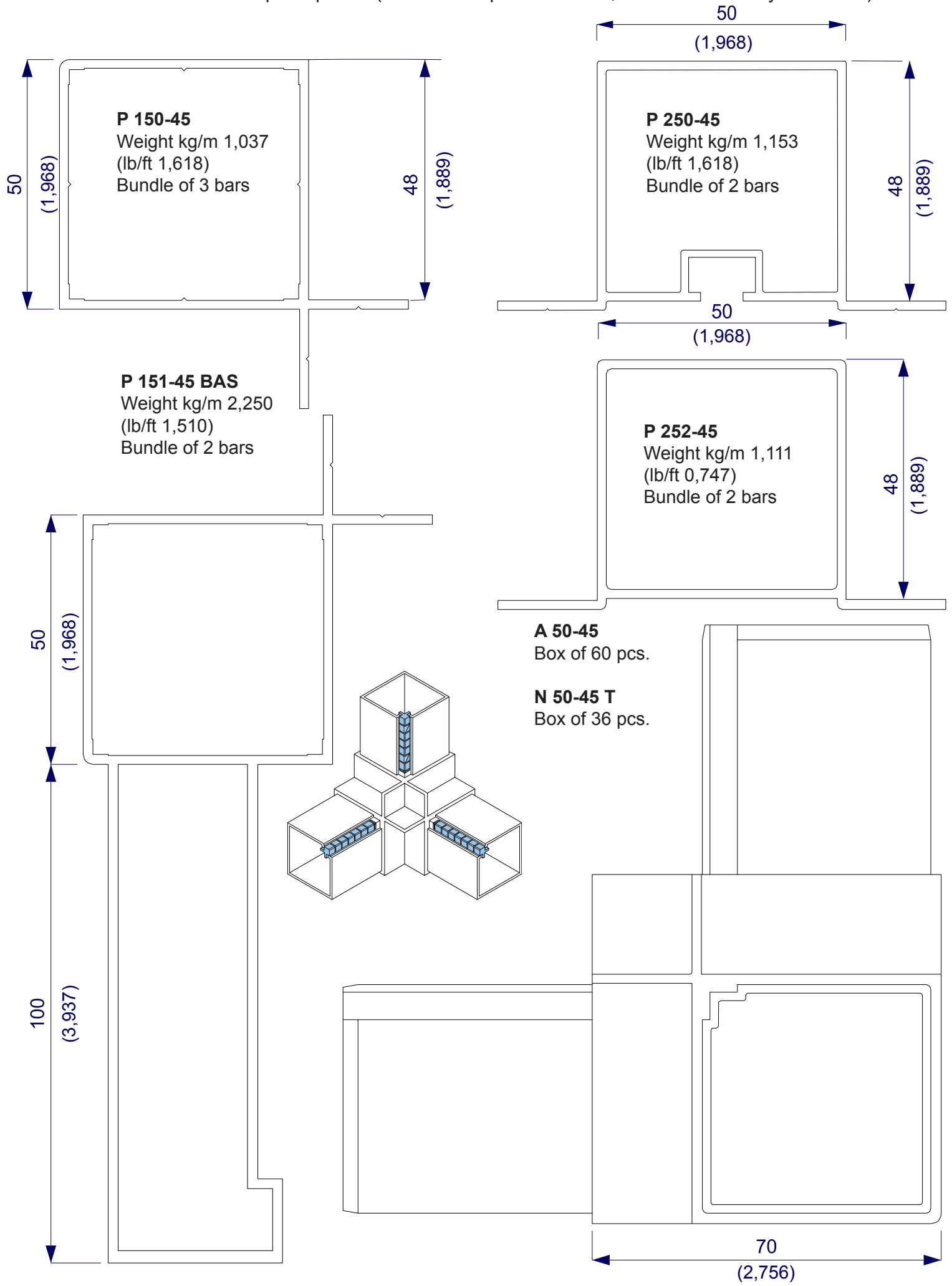


Part 2: Square profile with groove for gaskets

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



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

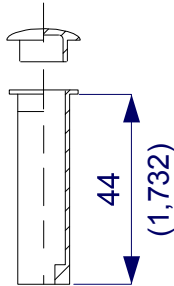


Part 2: Square section, double wall to hide the screws

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

N 871

Screw-guide bushing to assemble
the omega profile
Box of 1000 pcs.



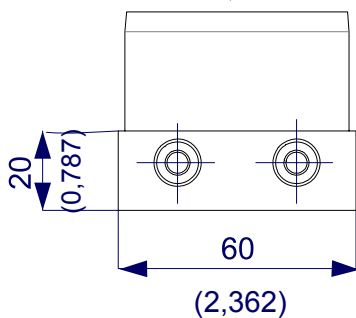
SCALE 1:2

P 260-45

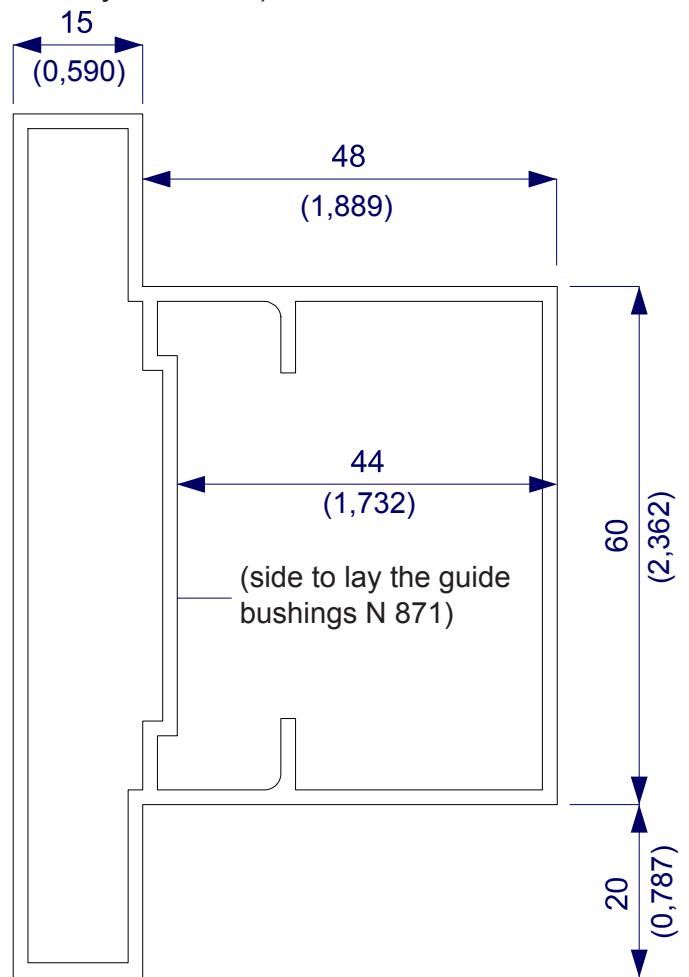
Weight kg/m 1,827
(lb/ft 1,227)
Bundle of 2 bars

N 60 JP

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



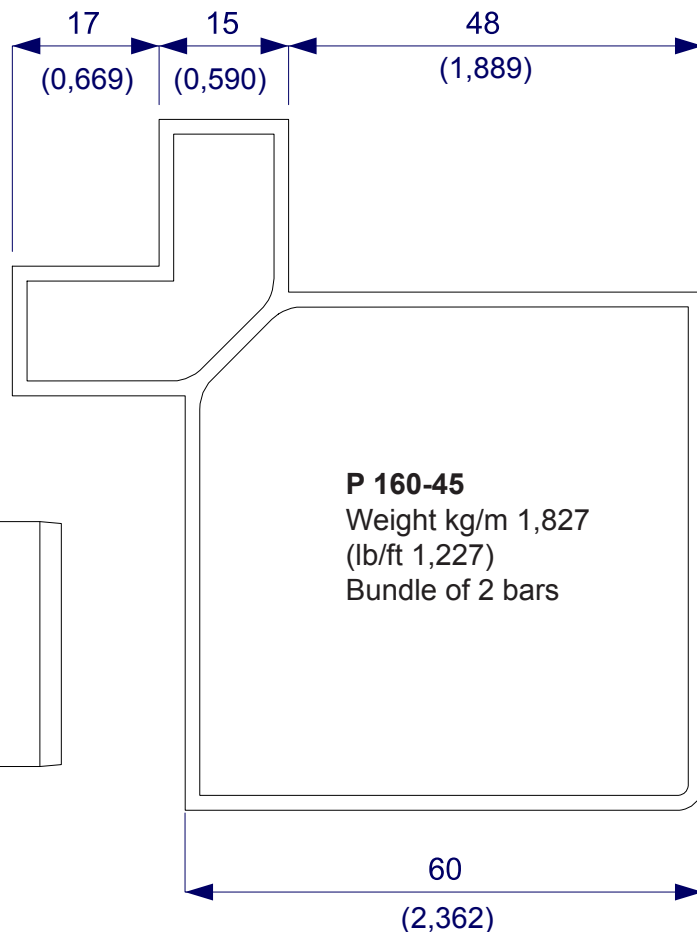
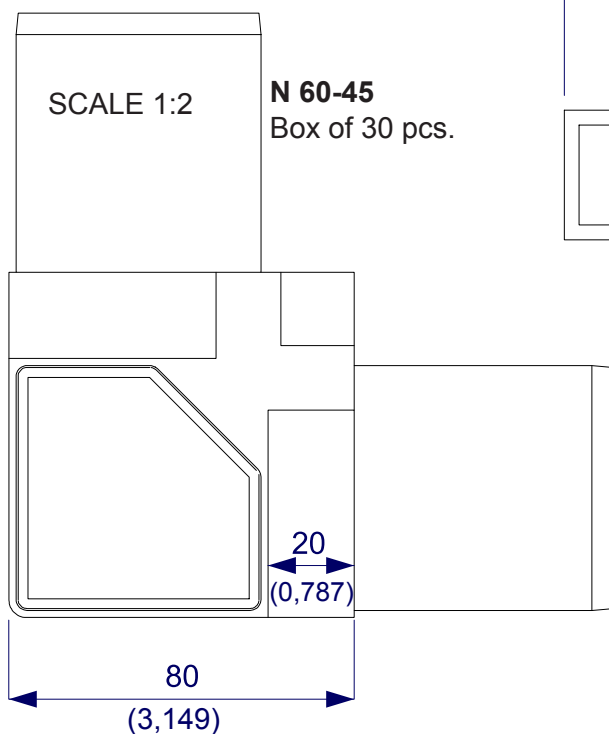
Plugs to cover the holes



SCALE 1:2

N 60-45

Box of 30 pcs.



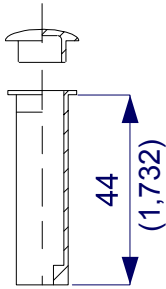
P 160-45

Weight kg/m 1,827
(lb/ft 1,227)
Bundle of 2 bars

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

N 871

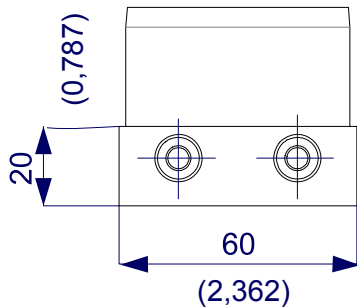
Screw-guide bushing to assemble
Box of 1000 pcs.



P 260-45

Weight kg/m 1,827
(lb/ft 1,227)
Bundle of 2 bars

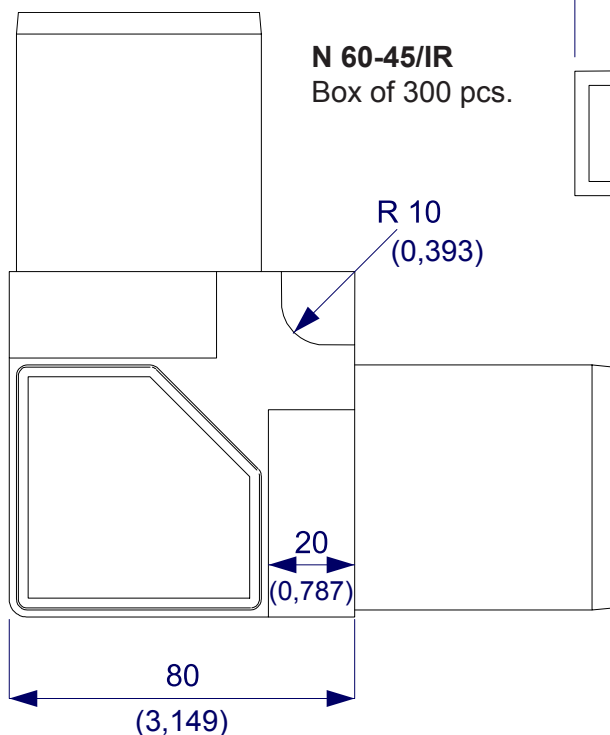
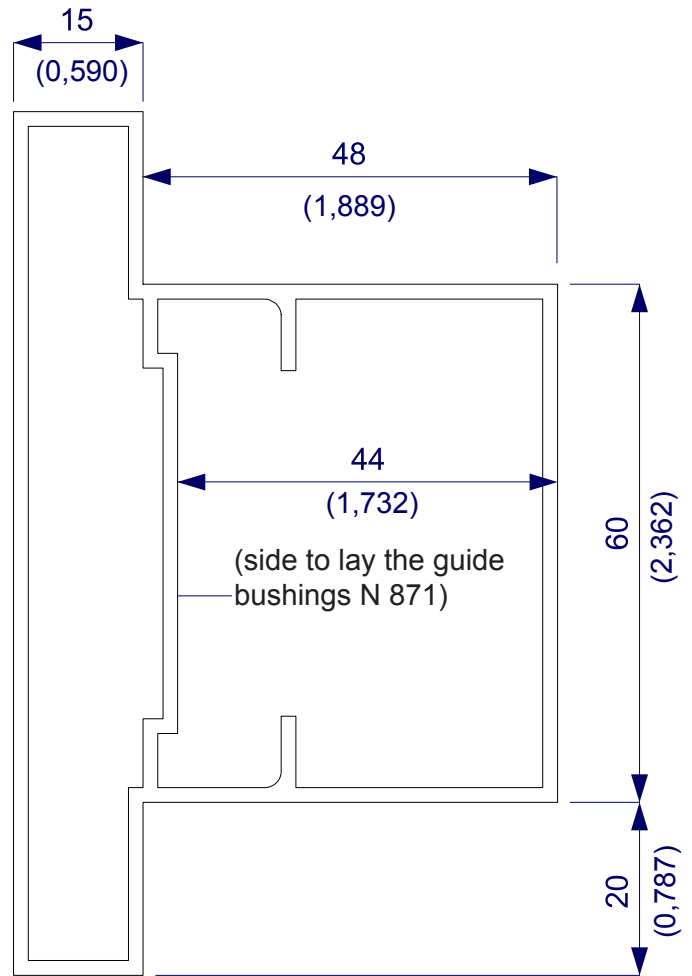
SCALE 1:2



N 60 JP

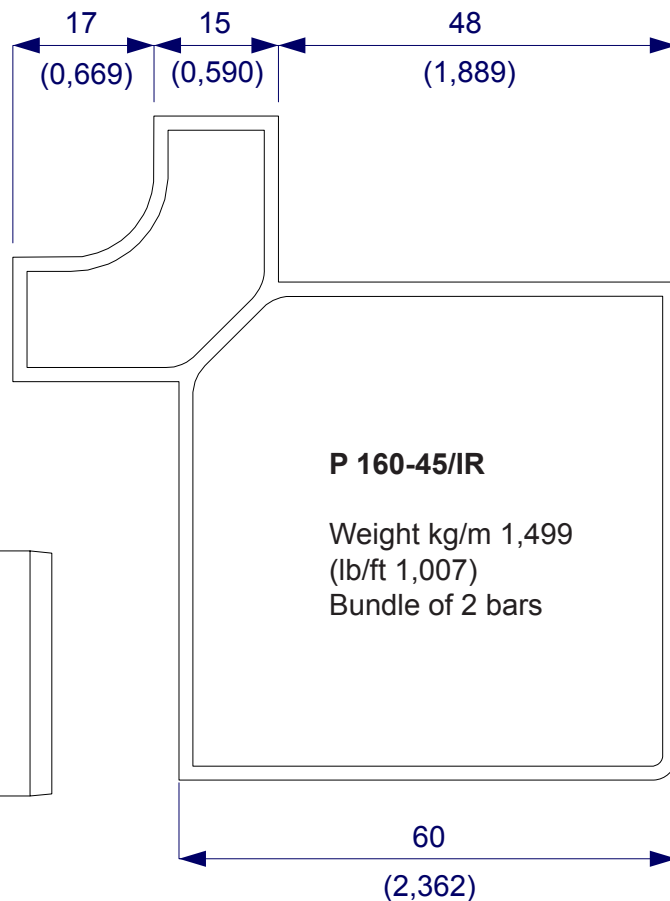
Nylon joint to fasten
the omega profile
Box of 200 pcs.

Plugs to cover the holes



N 60-45/IR

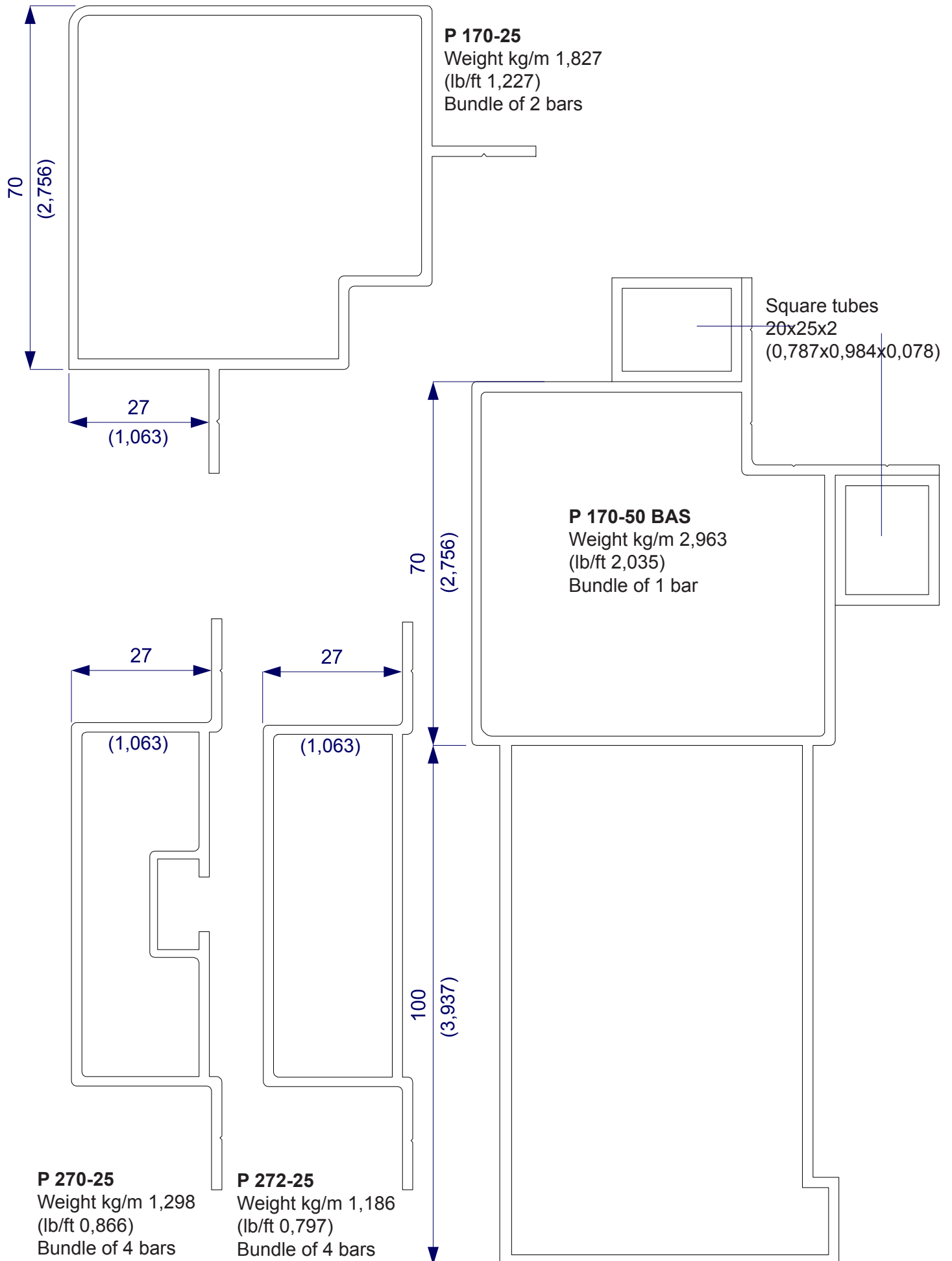
Box of 300 pcs.



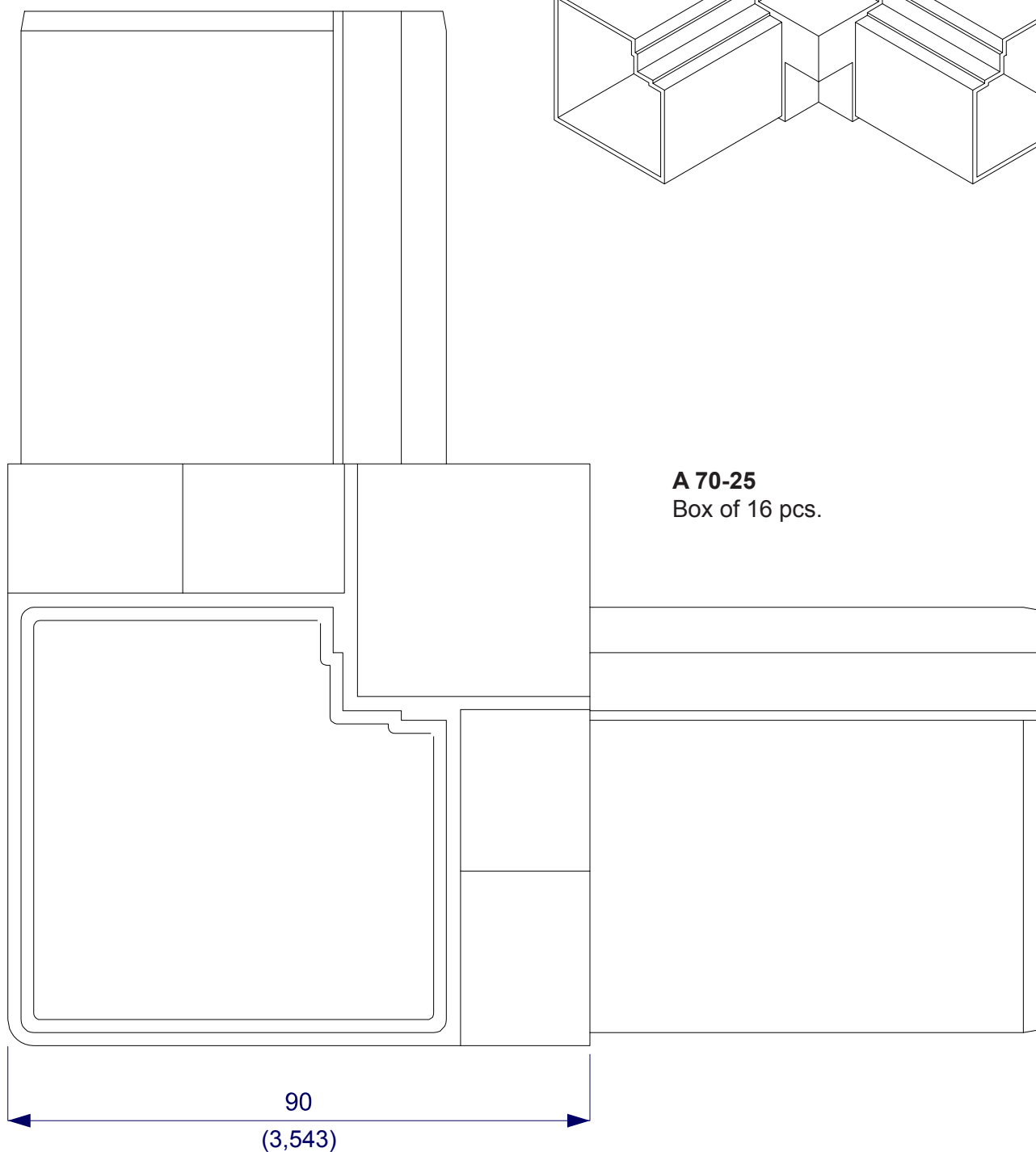
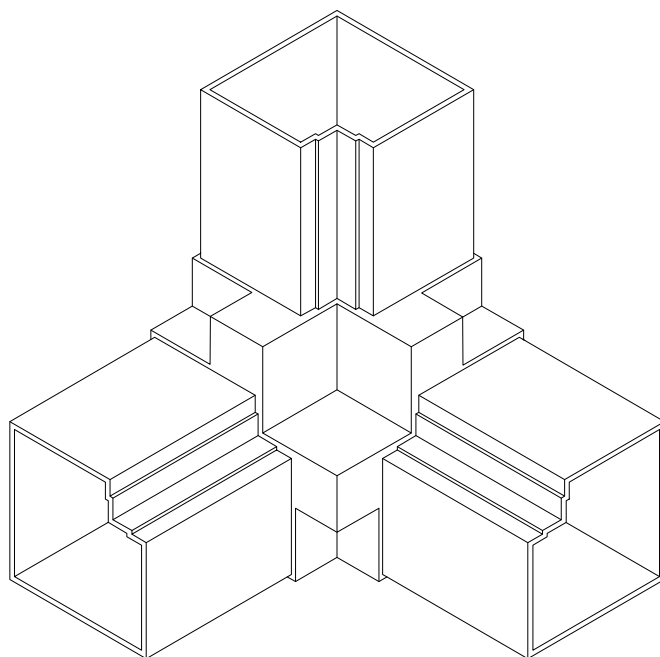
P 160-45/IR

Weight kg/m 1,499
(lb/ft 1,007)
Bundle of 2 bars

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

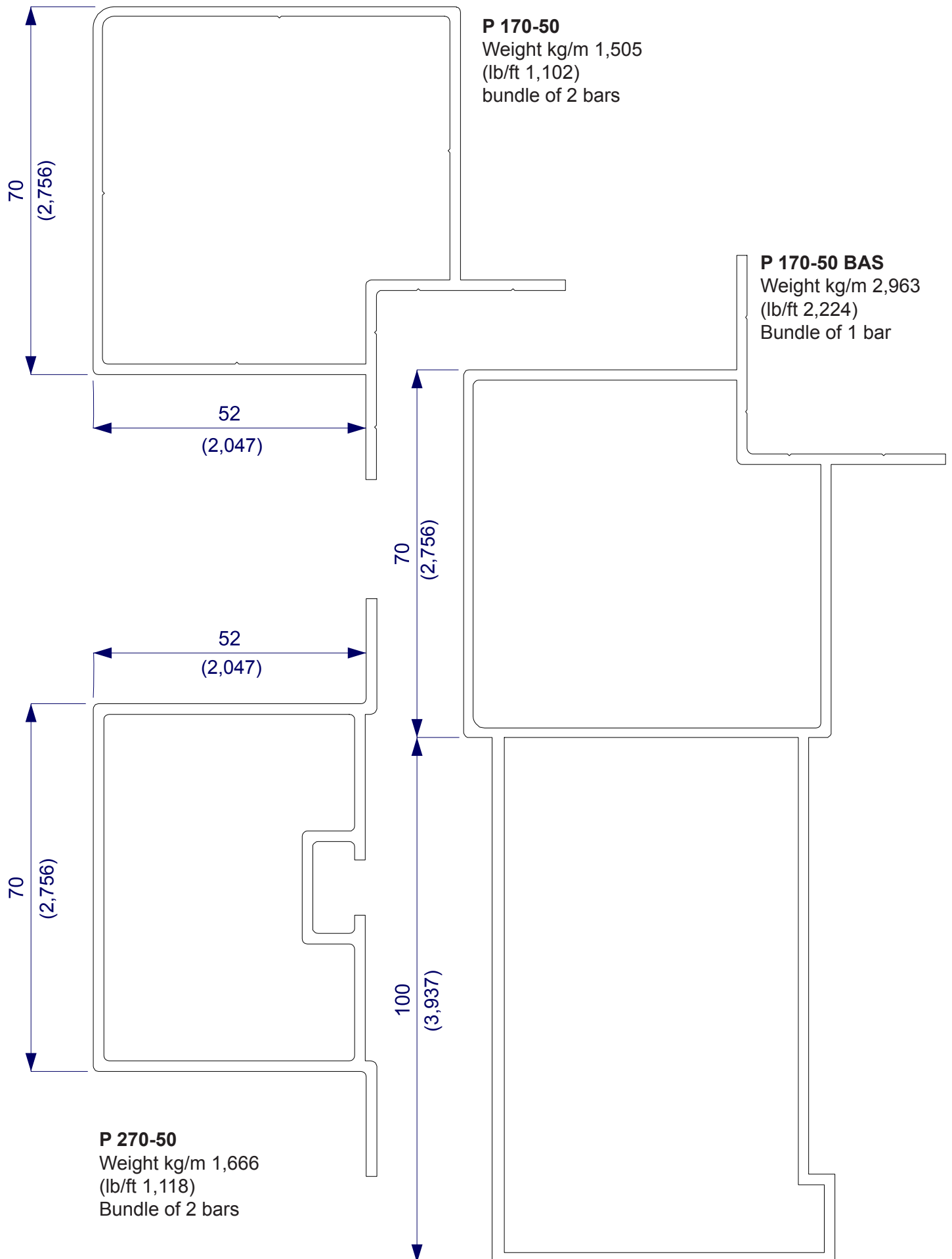


Part 2: Square profile (section **70** panel **25** mm; aluminium corner)

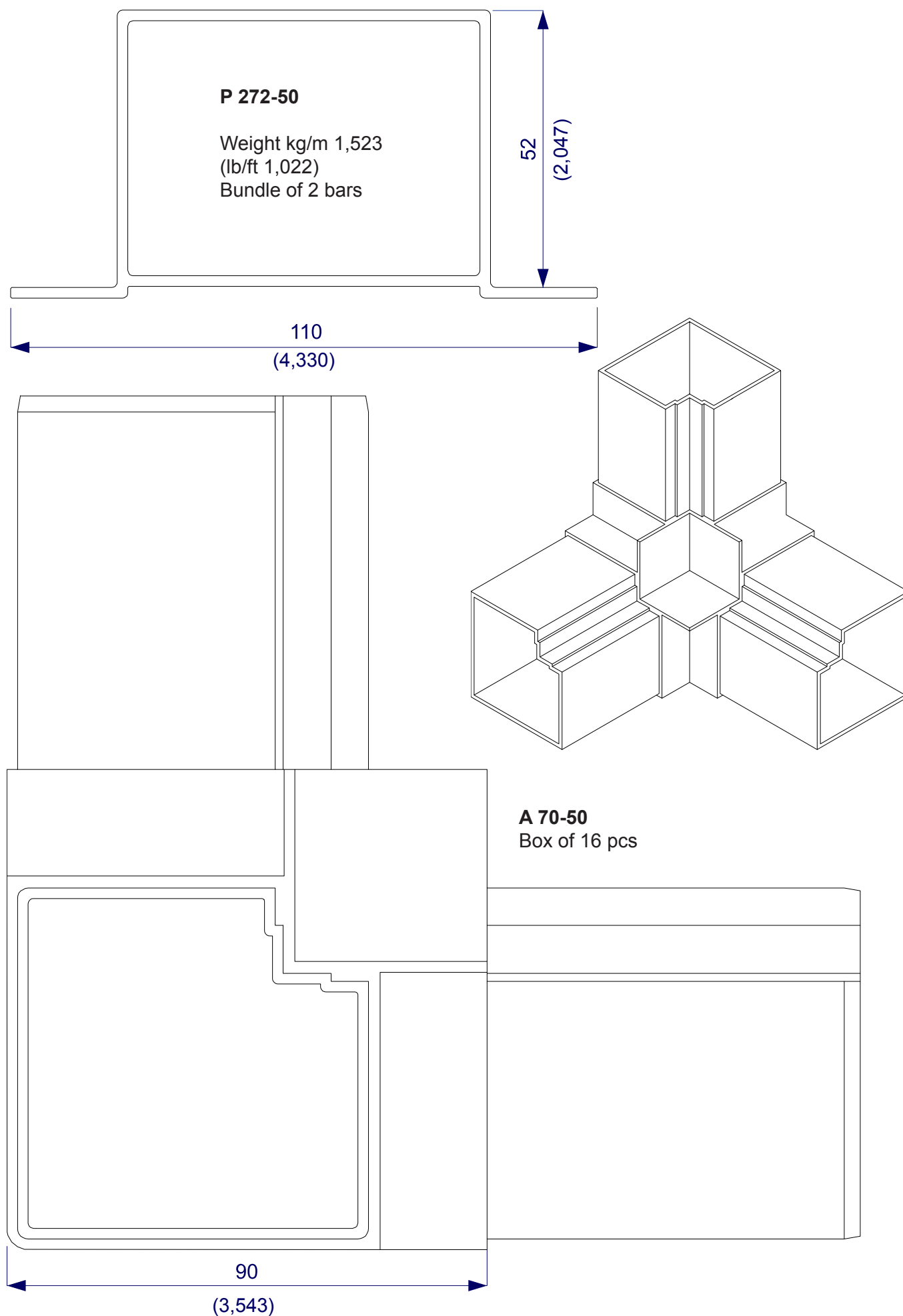


A 70-25
Box of 16 pcs.

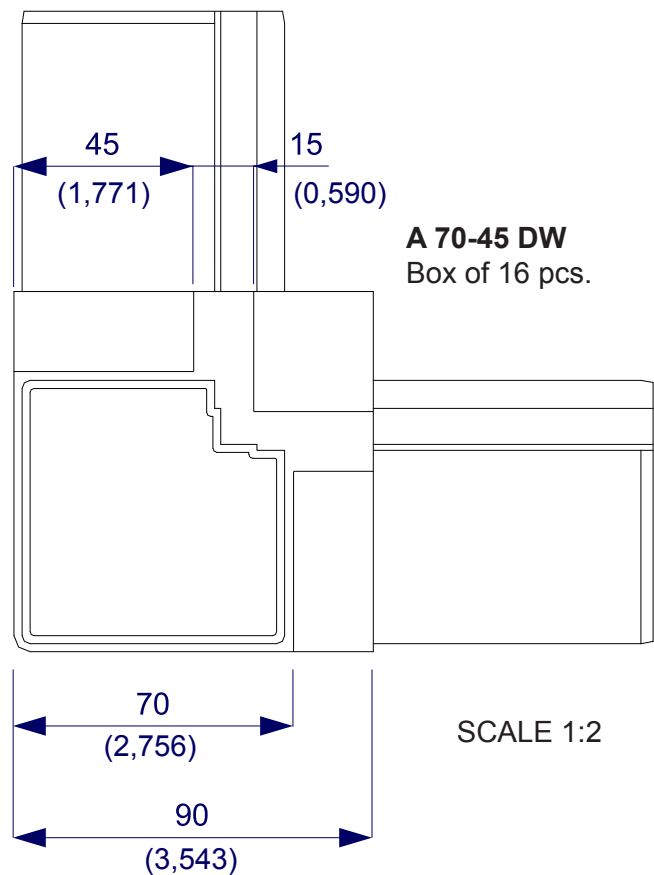
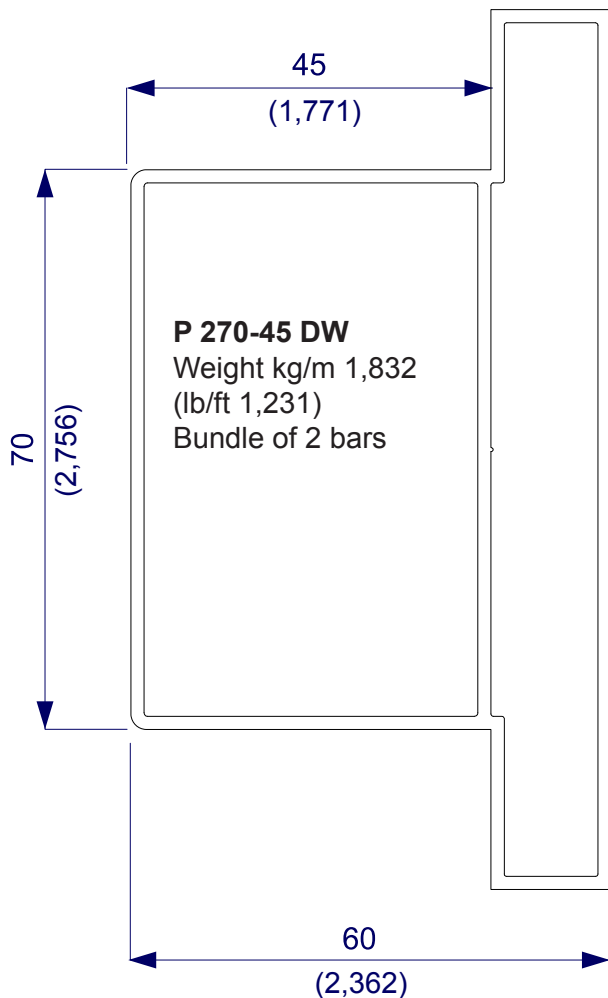
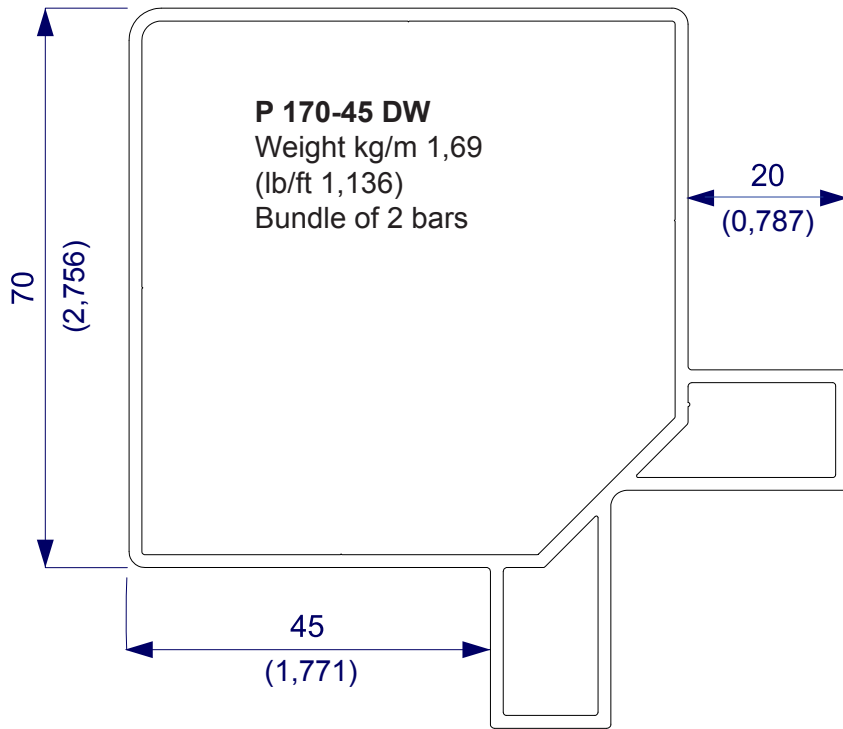
Part 2: Square profile (section **70** panel **50** mm; aluminium corner)



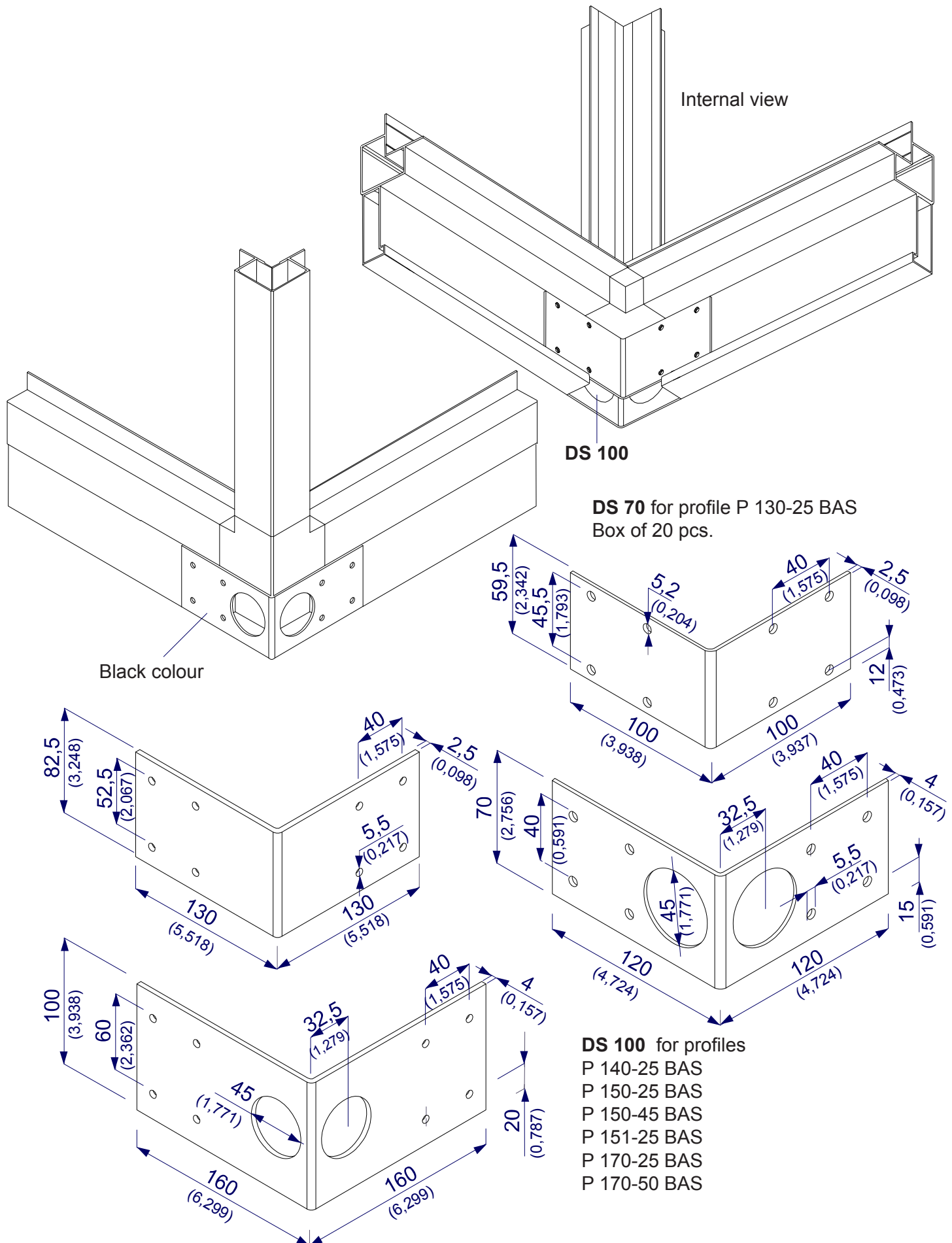
Part 2: Square profile (section **70** panel **50** mm; aluminium corner)



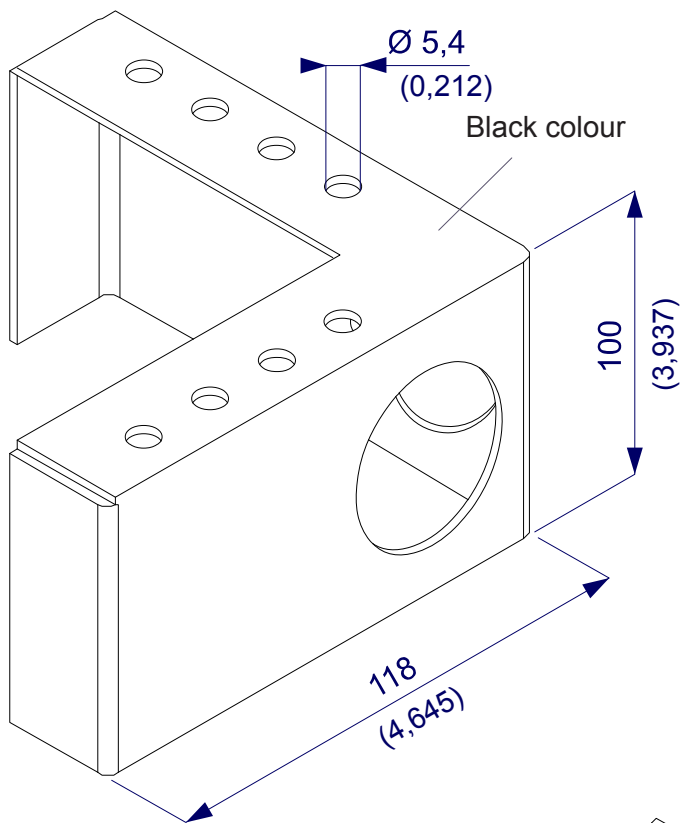
2°) Square profile section internally rounded, double wall to hide the screws
(section **70** panel **45/60** mm; aluminium corner)



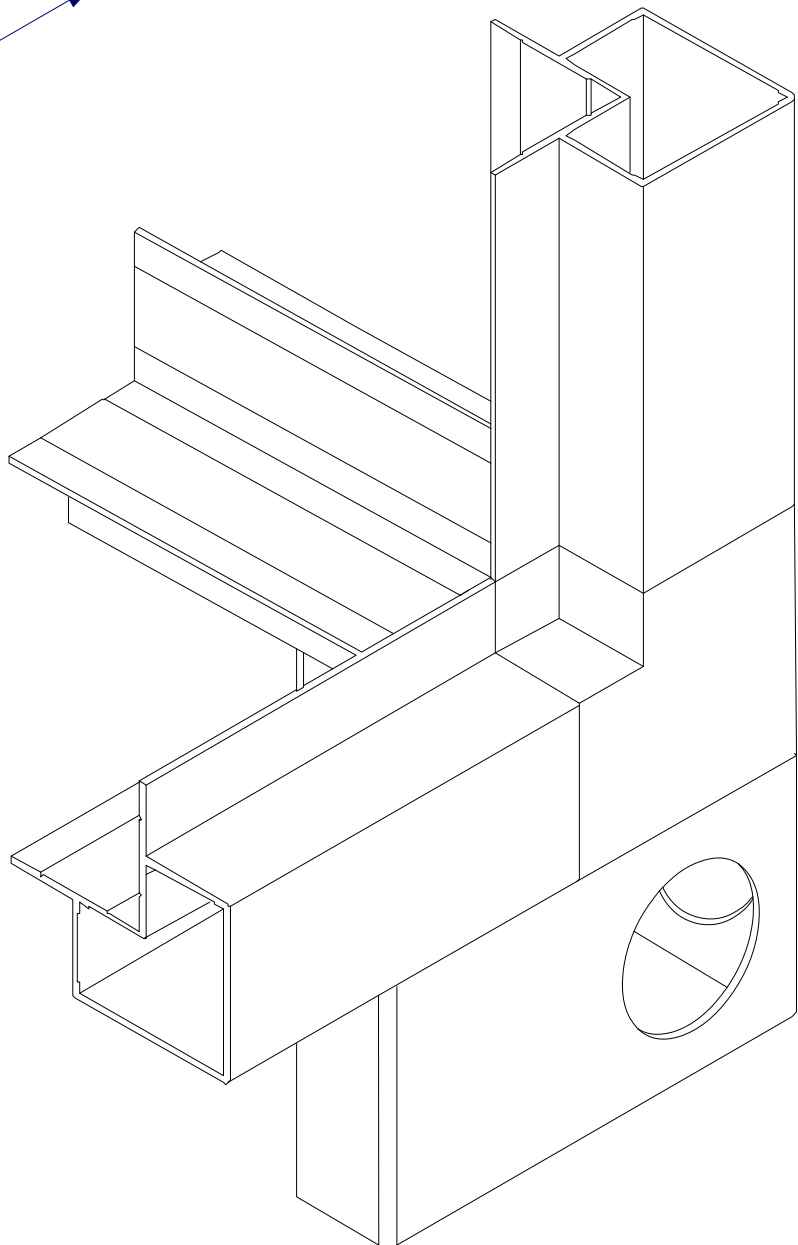
3°) Steel joint for base profiles



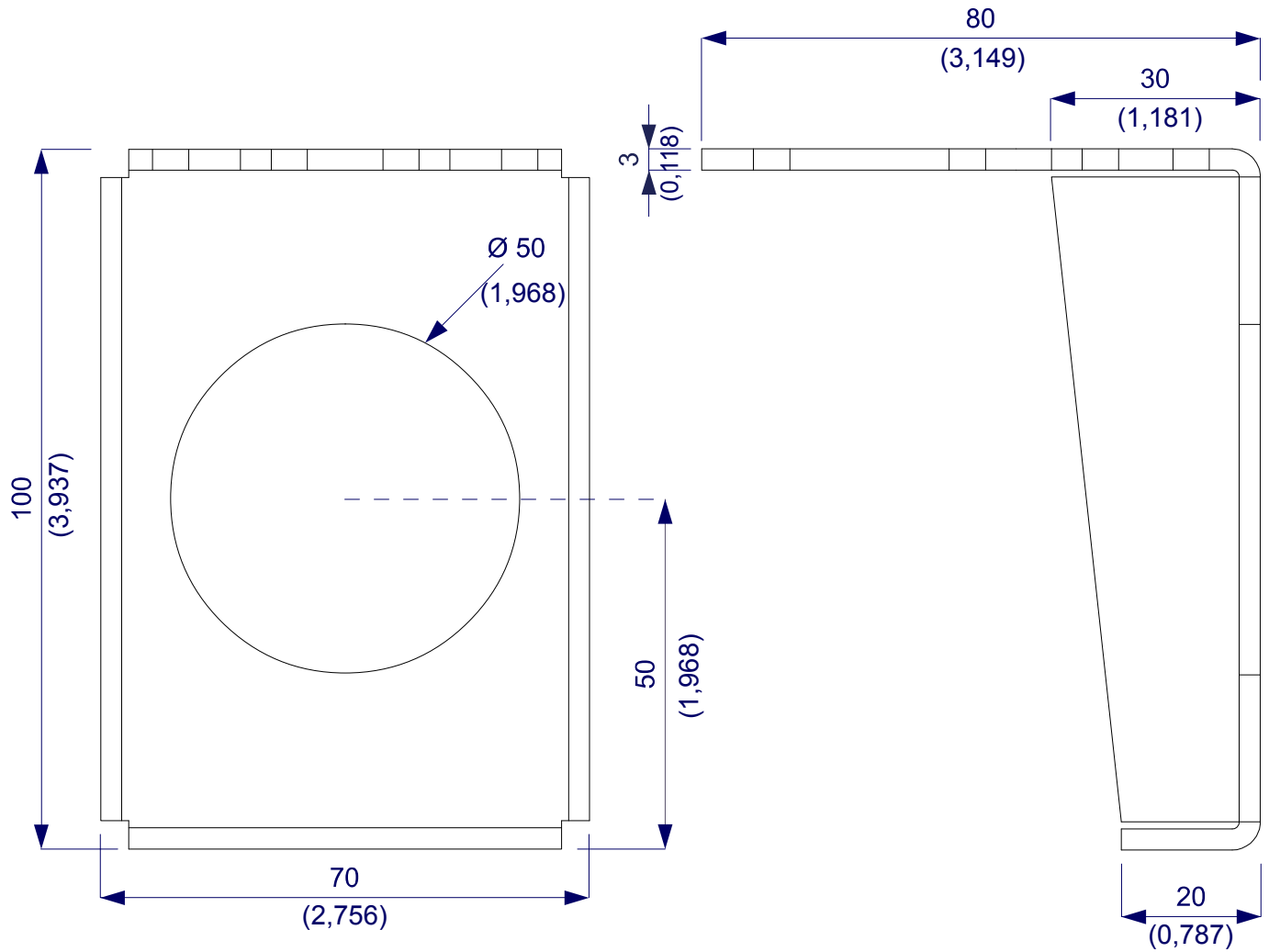
Steel foot



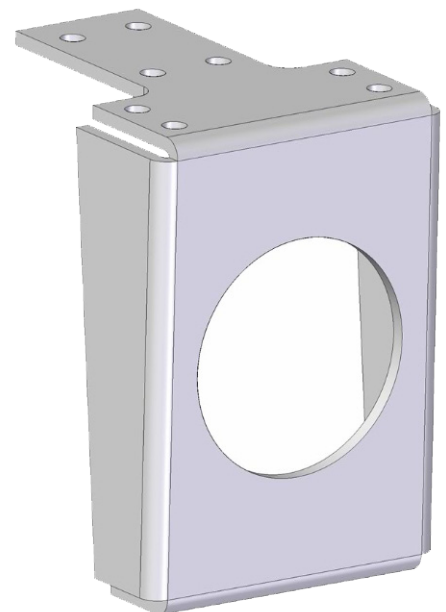
DS 105
Box of 40 pcs.



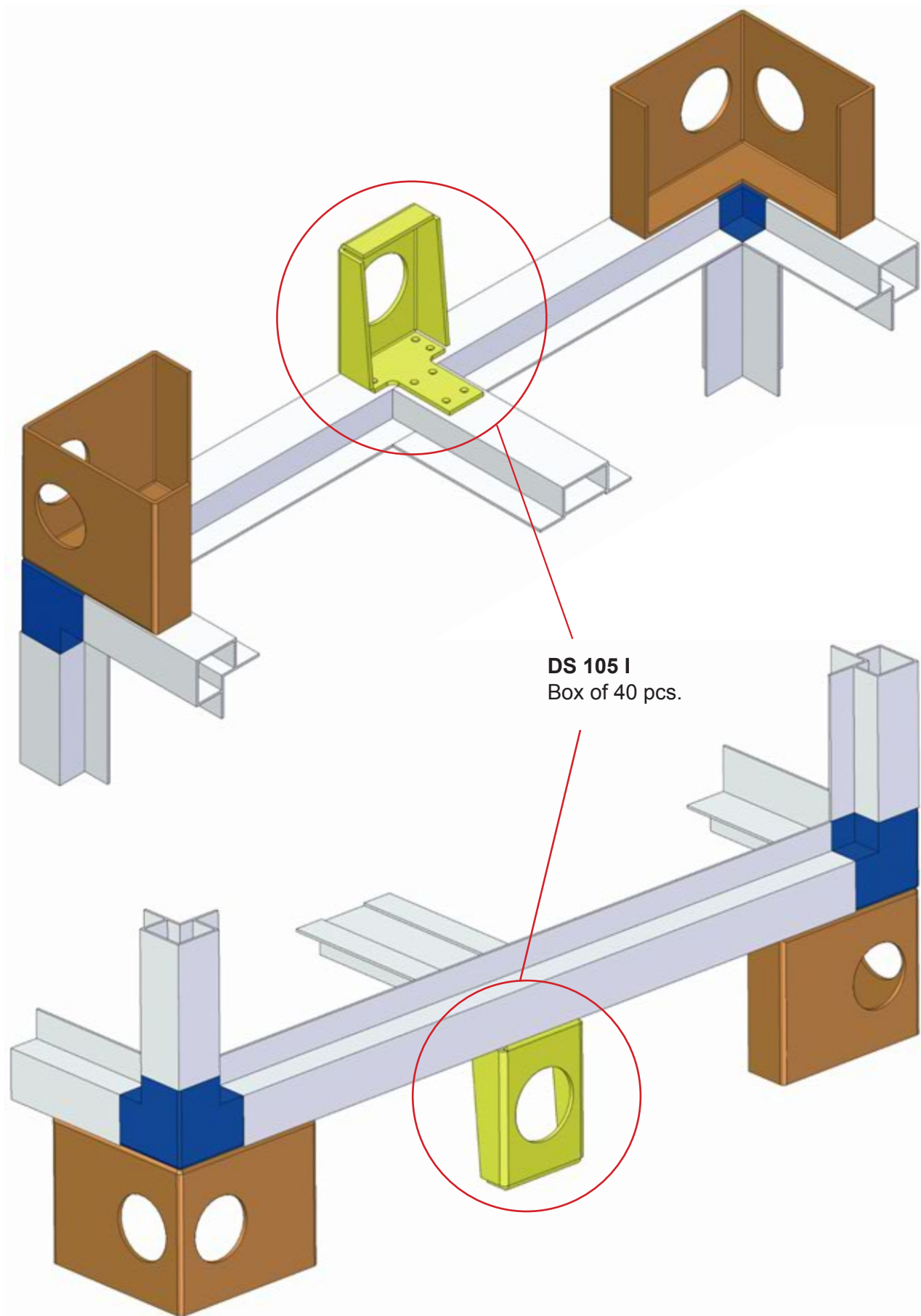
3°) Intermediate steel footSteel foot

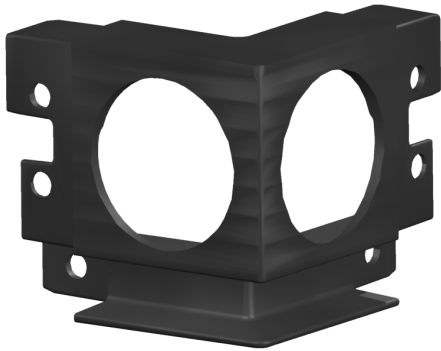
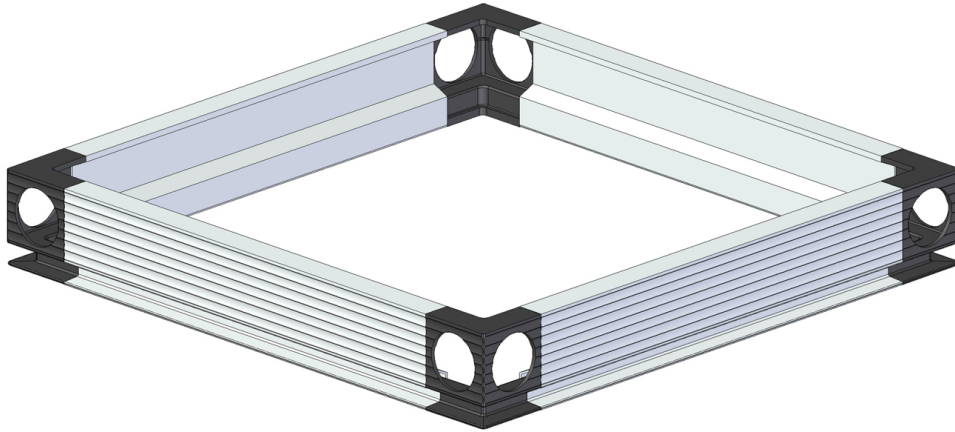


DS 105 I
Box of 40 pcs.

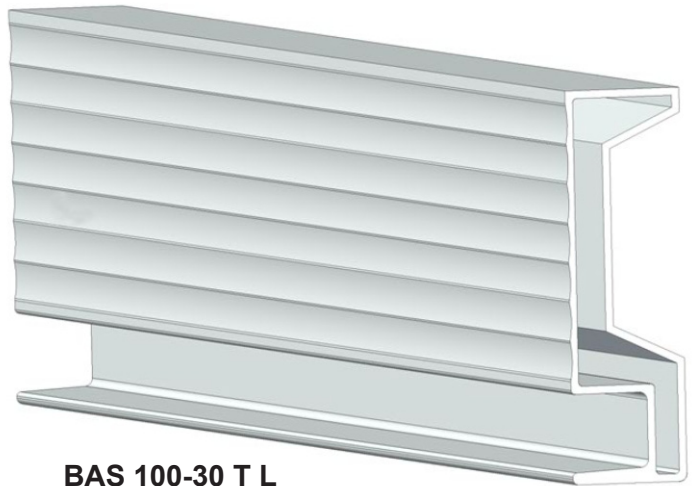


3°) Intermediate steel footSteel foot



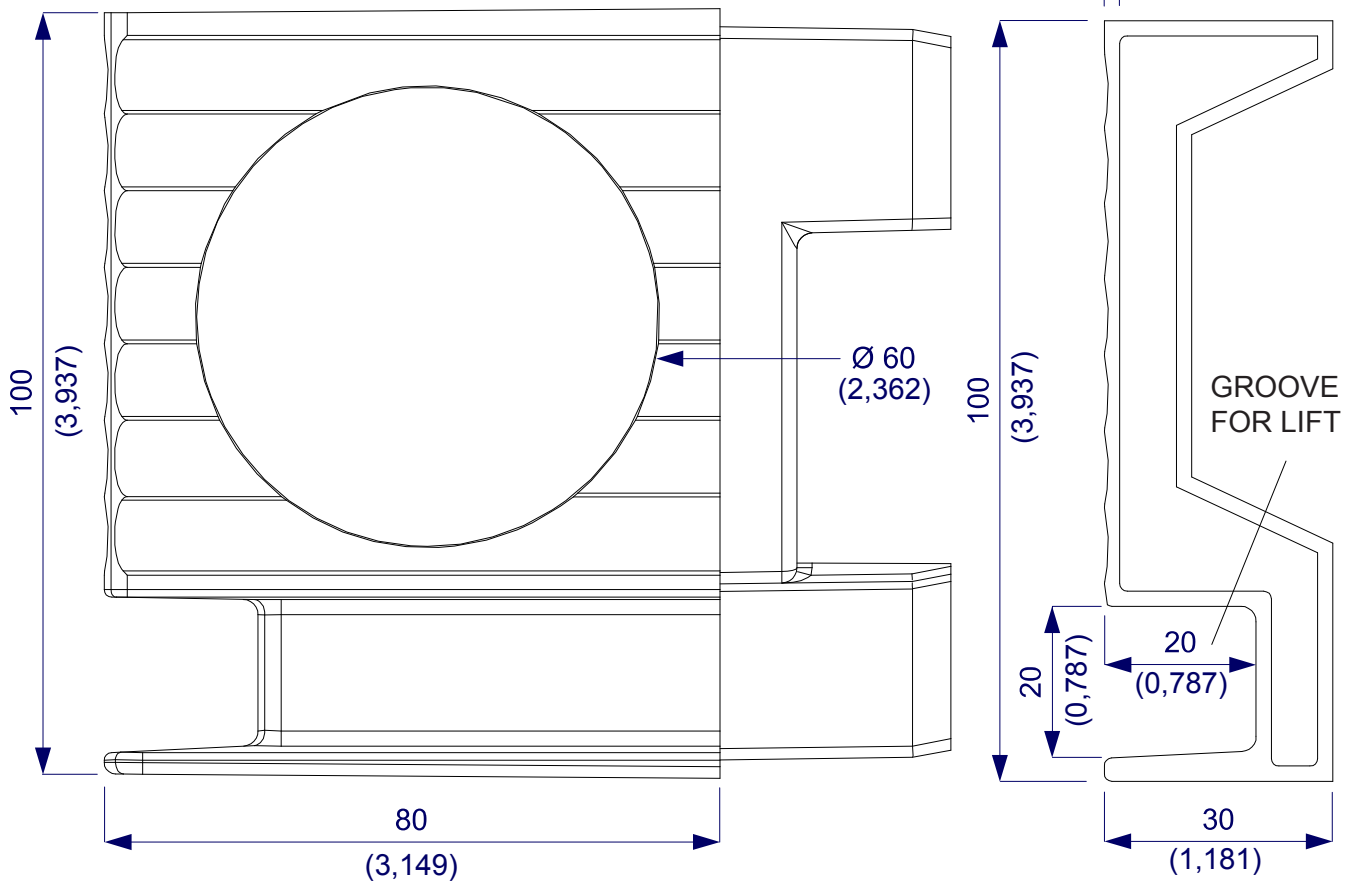


A 100
Box of 50 pcs.

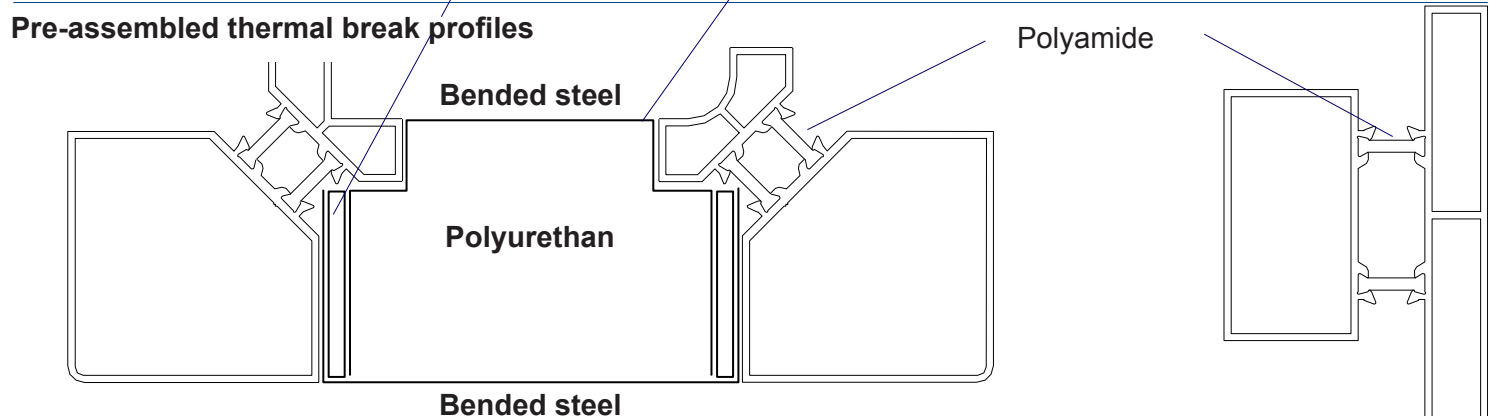
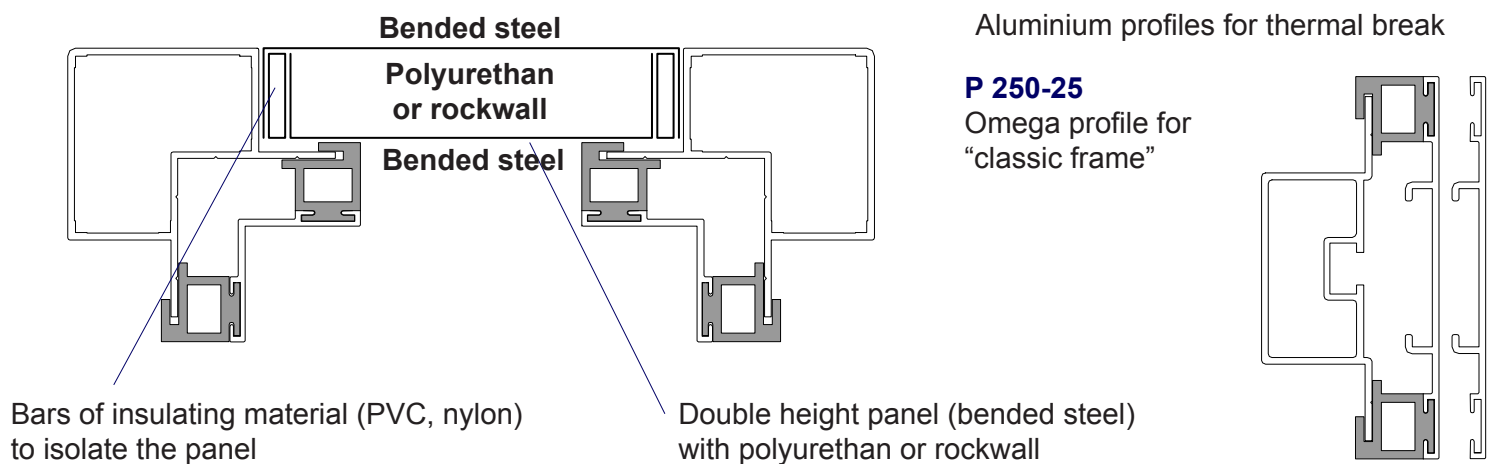
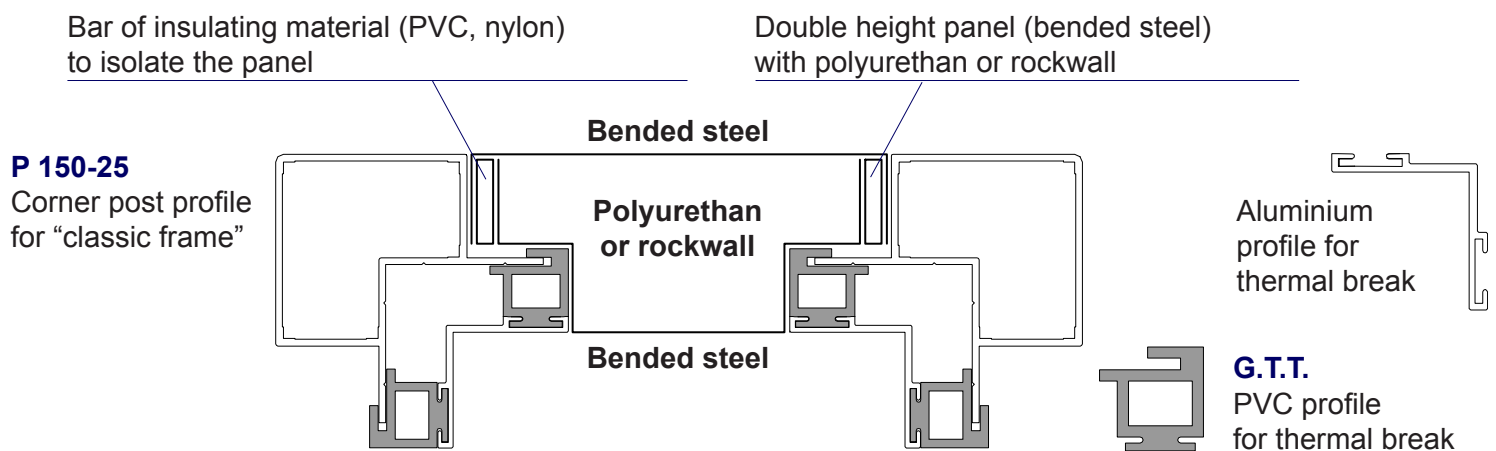


BAS 100-30 T L
Weight kg/m 1,630
(lb/ft 1,095)
Bundle of 2 bars

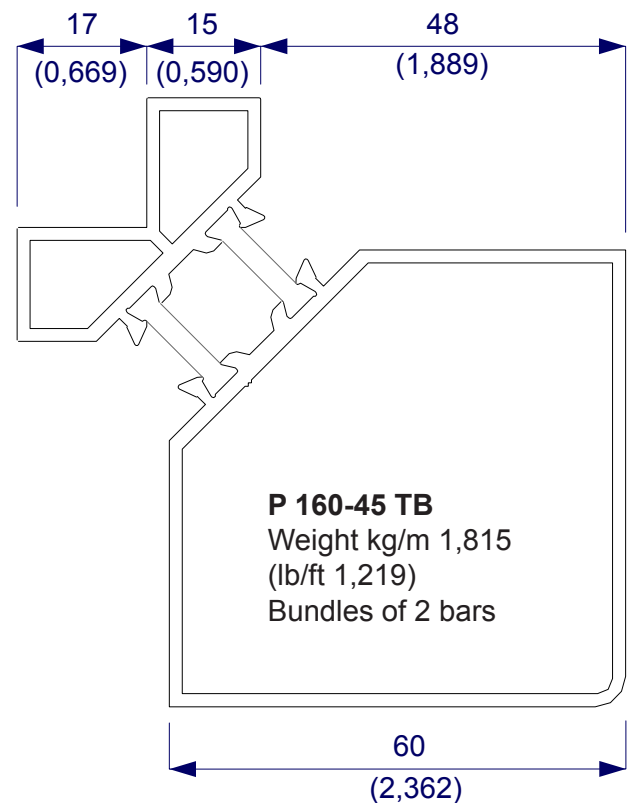
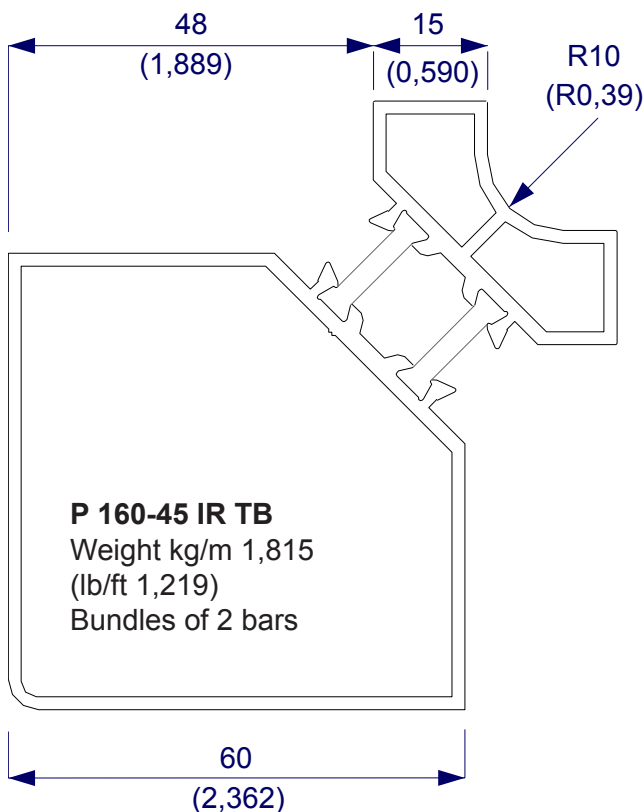
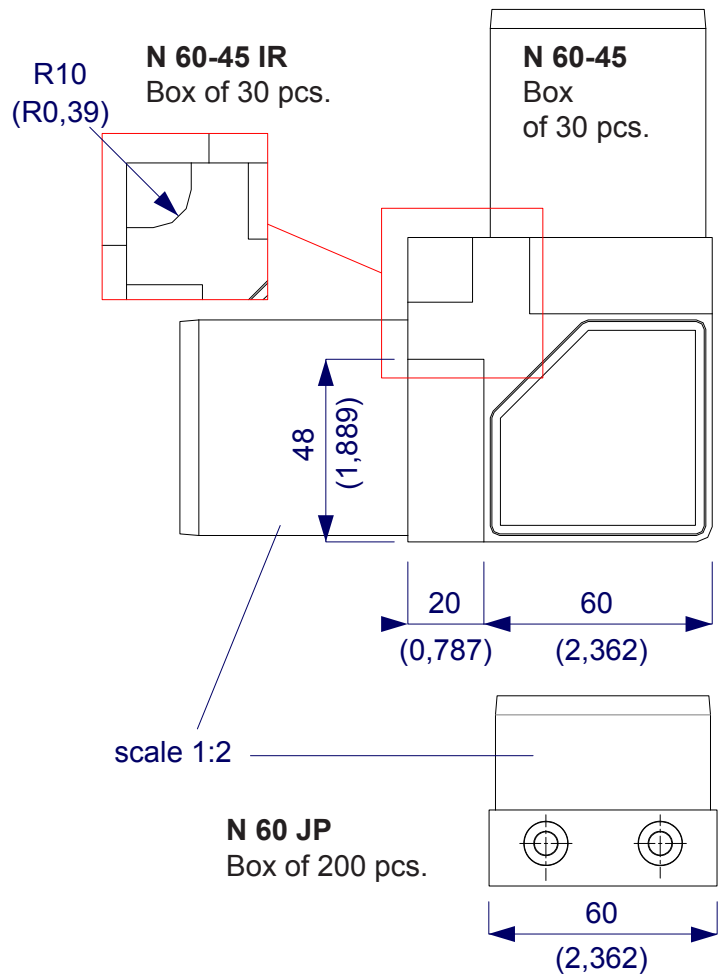
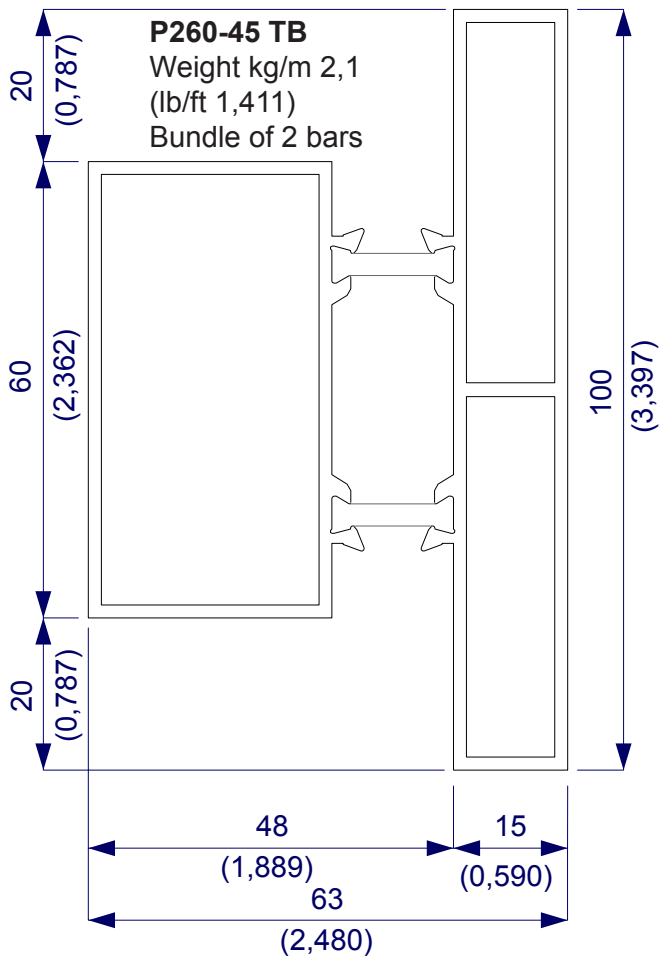
$\frac{2}{(0,078)}$



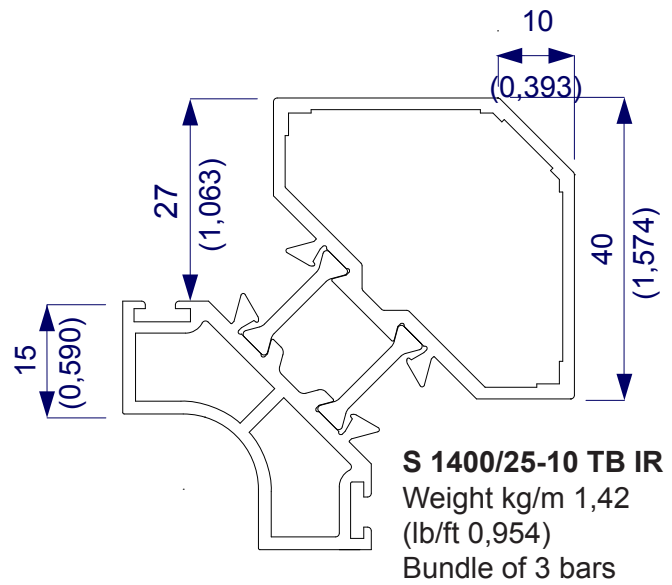
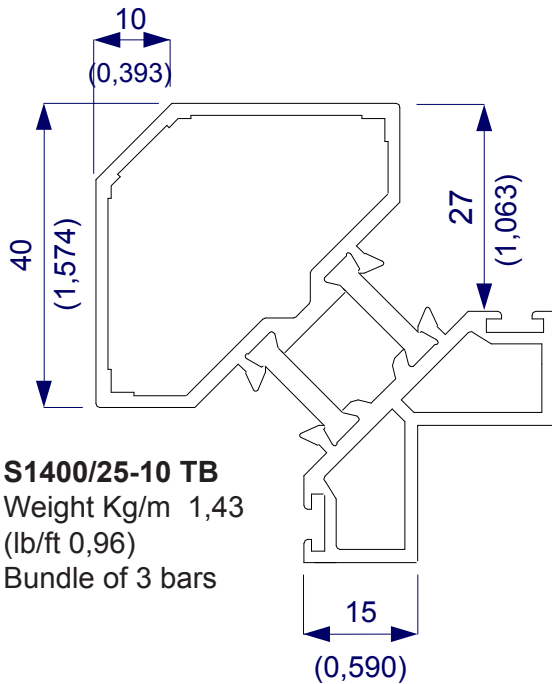
The thermal break profile series use standard profiles into which PVC profiles are inserted to achieve the thermal bridge together with internal aluminium profiles. These complementary profiles readily convert the standard stock into a thermal break modular frame system. The PVC profiles are extremely easy to assemble and no special tool or machine is needed. They are inserted or assembled by exerting manual pressure on the profile. Tests of this thermal break show that it is extremely effective when it is used in conjunction with thermal break panels. The below illustration shows how the panel should be constructed in order to produce an effective thermal break unit. These panels are available in any dimension. It is also available a pre-assembled series of thermal break profiles ready to be cut and used without the assembling in your workshop. This 60/45 series has the same high thermal characteristics as the PVC one and it is effective when the production of thermal break units is very high.



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




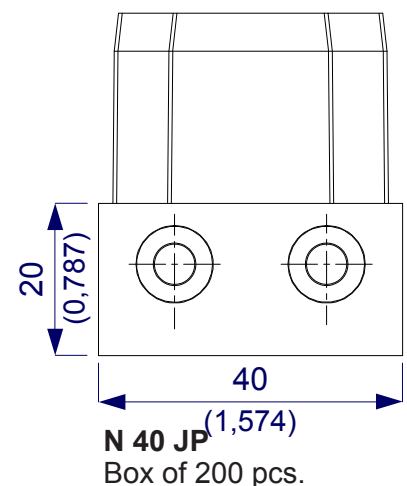
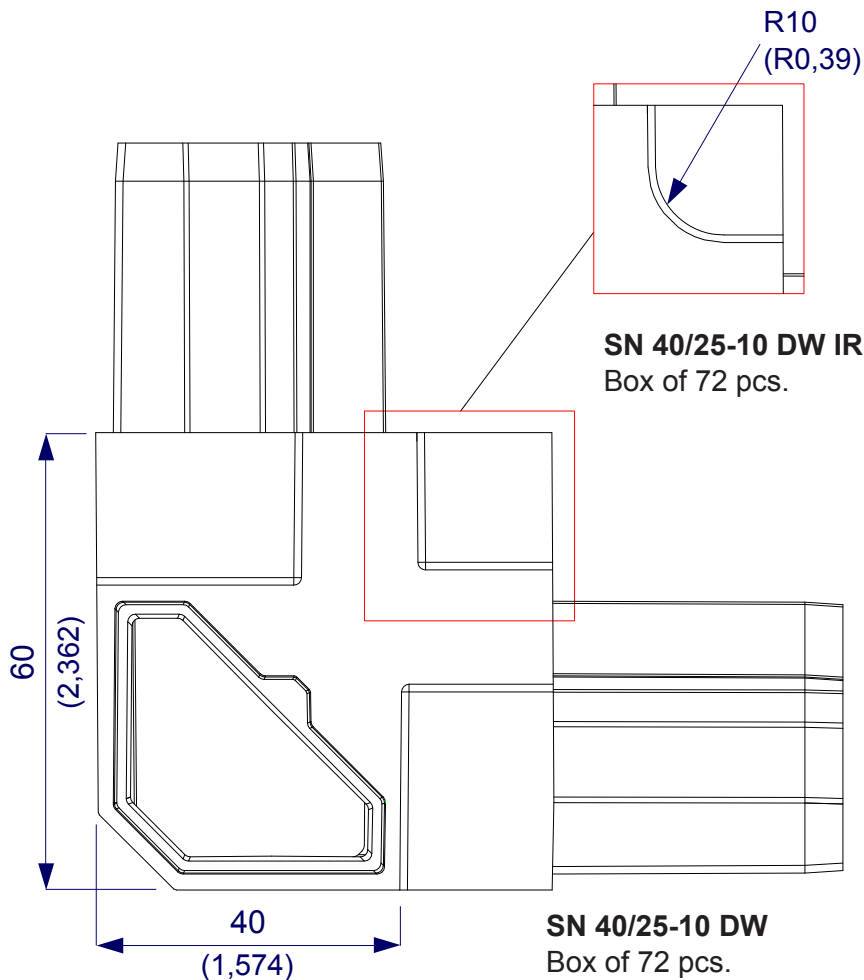
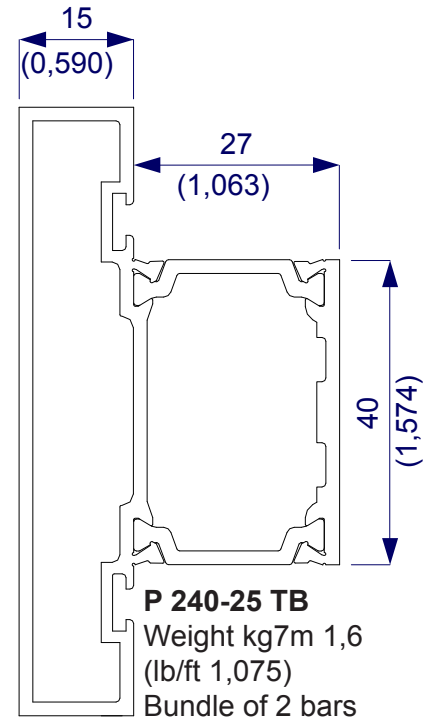
Blunted profile (section **40** panel **25/40** mm; nylon corner)
Pre-assembled thermal break profile with polyamide



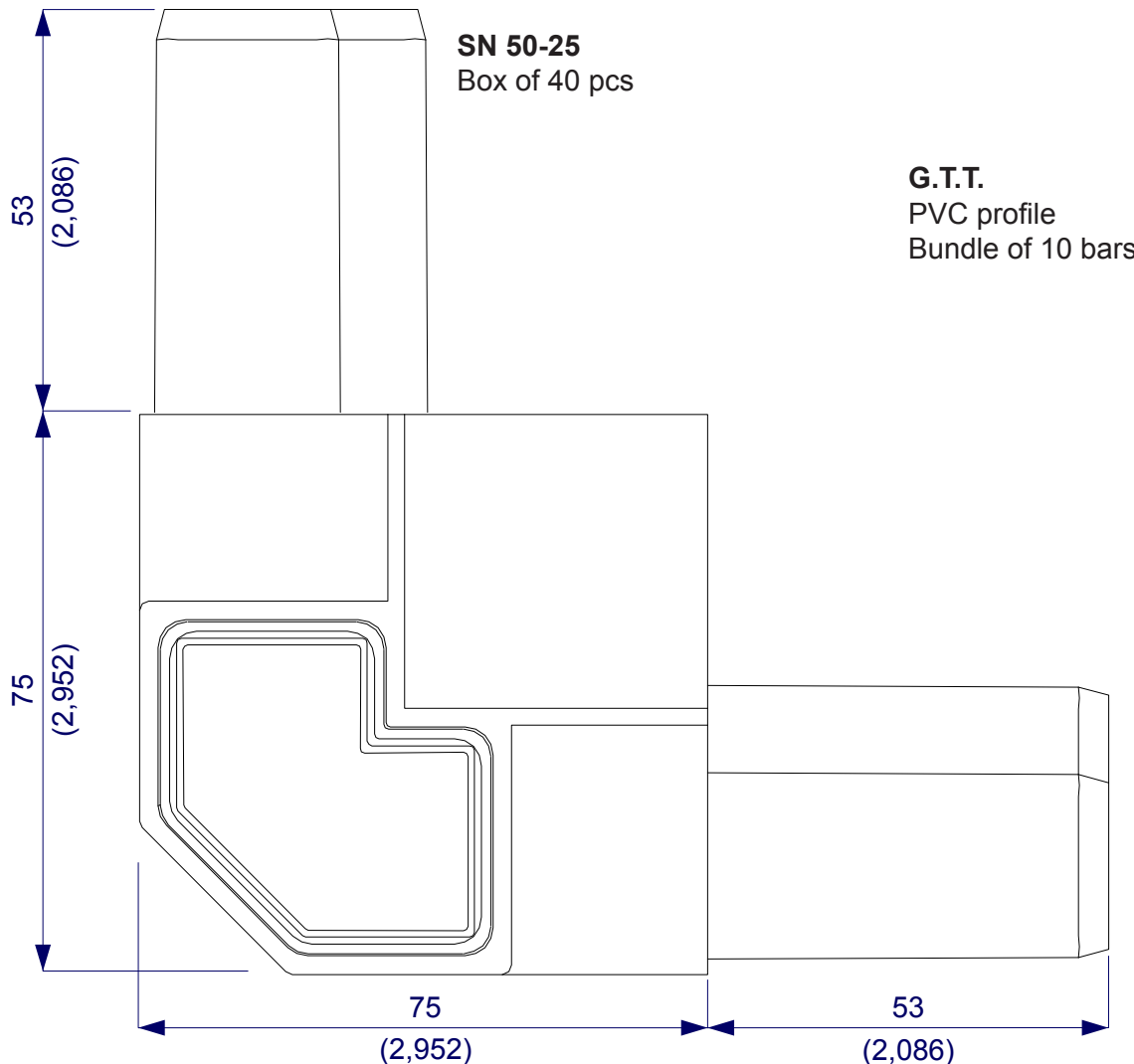
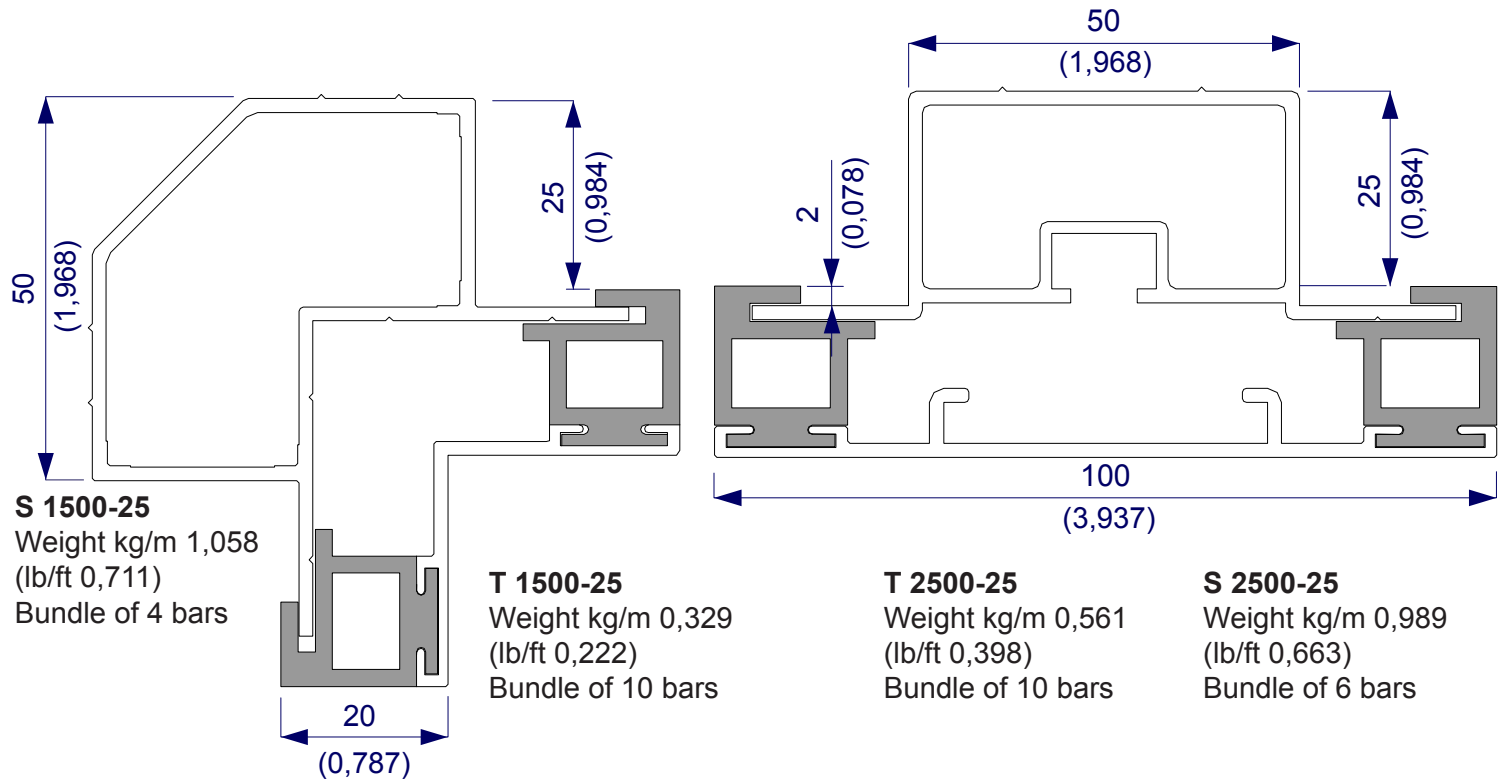
GASKETS

G 63 
Box of 400 mt.

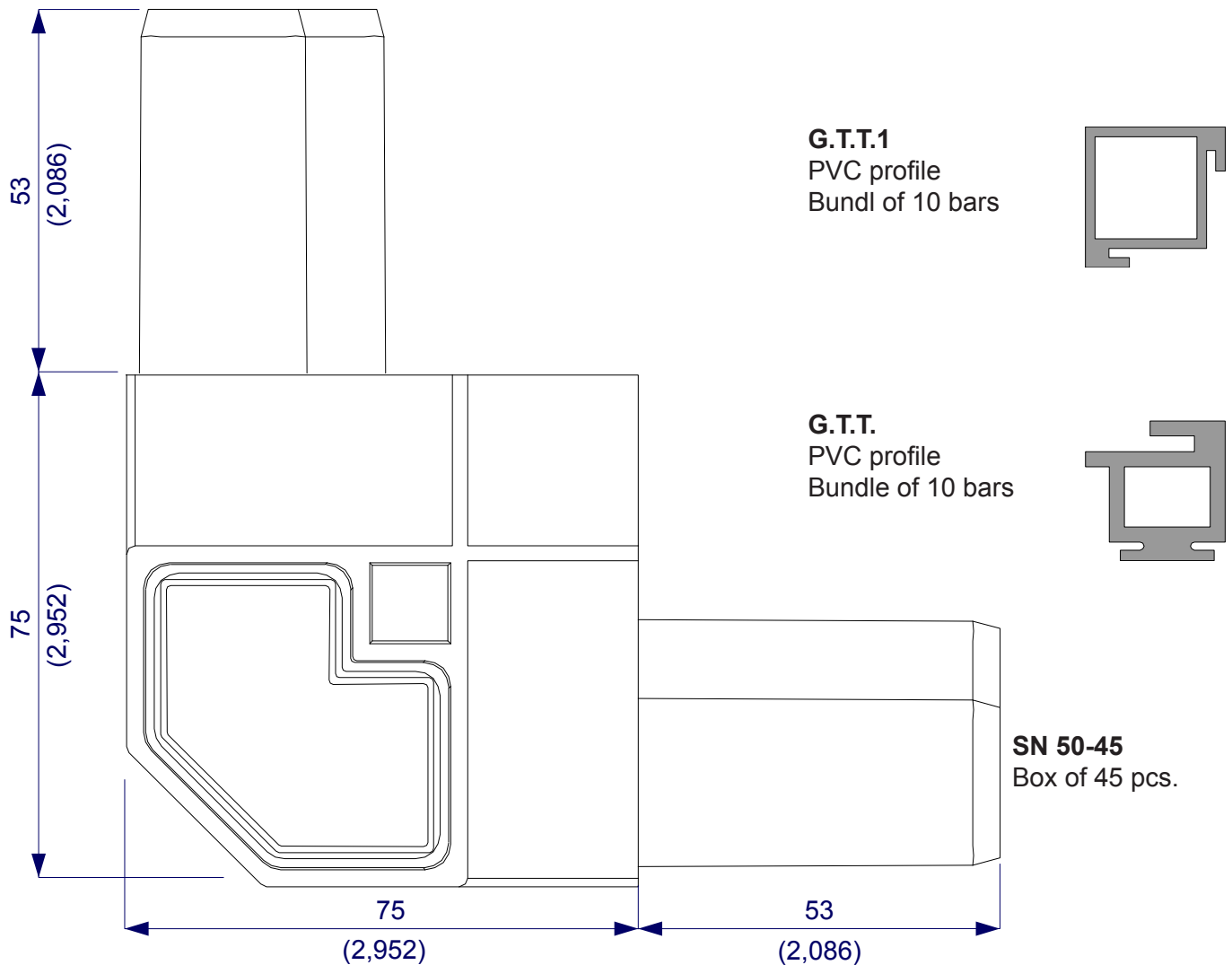
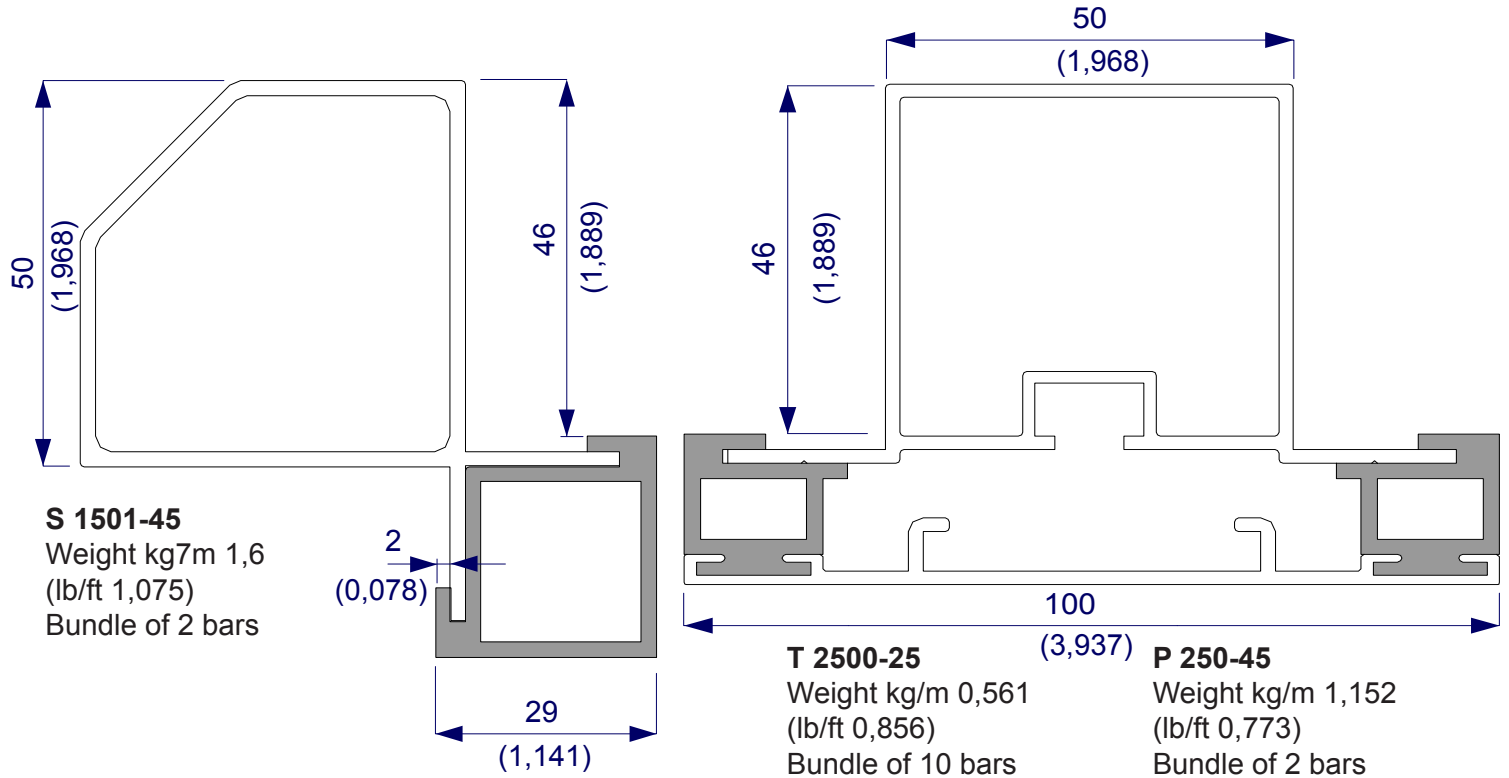
G 5.6 
Box of 400 mt.



Blunted profile (section **50** panel **25** mm; nylon corner)



Blunted profile (section **50** panel **45** mm; nylon corner)



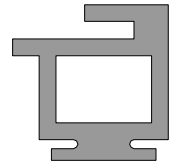
Blunted profile (section **70** panel **50** mm; nylon corner)

S 1700-50

Weight kg/m 1,516
(lb/ft 0,11)
Bundle of 2 bars

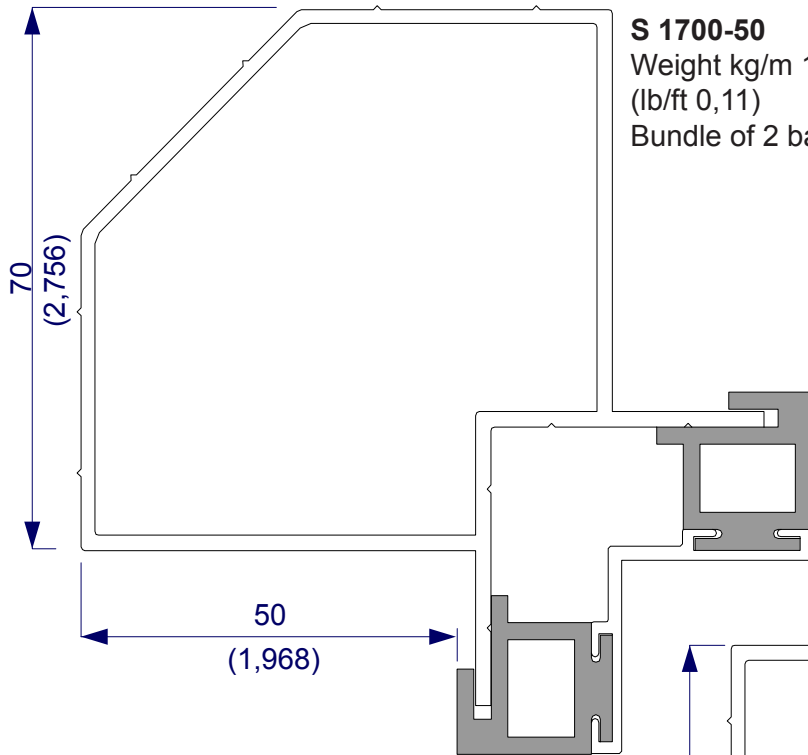
G.T.T.

PVC profile
Bundle of 10 bars



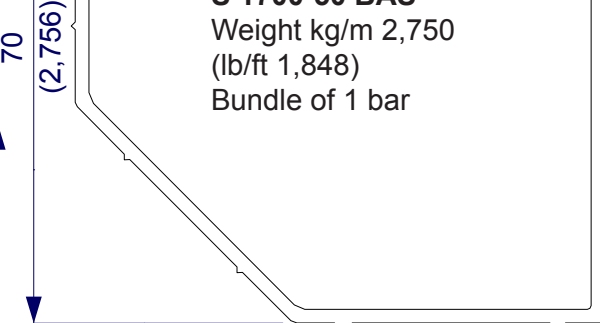
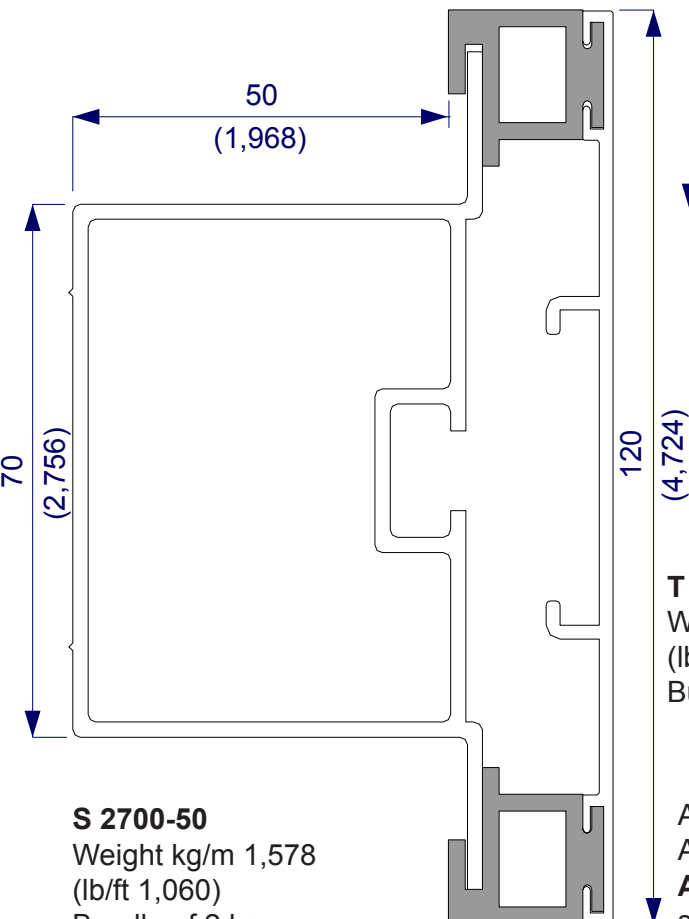
T 1700-50

Weight kg/m 0,285
(lb/ft 0,191)
Bundle of 10 bars



S 1700-50 BAS

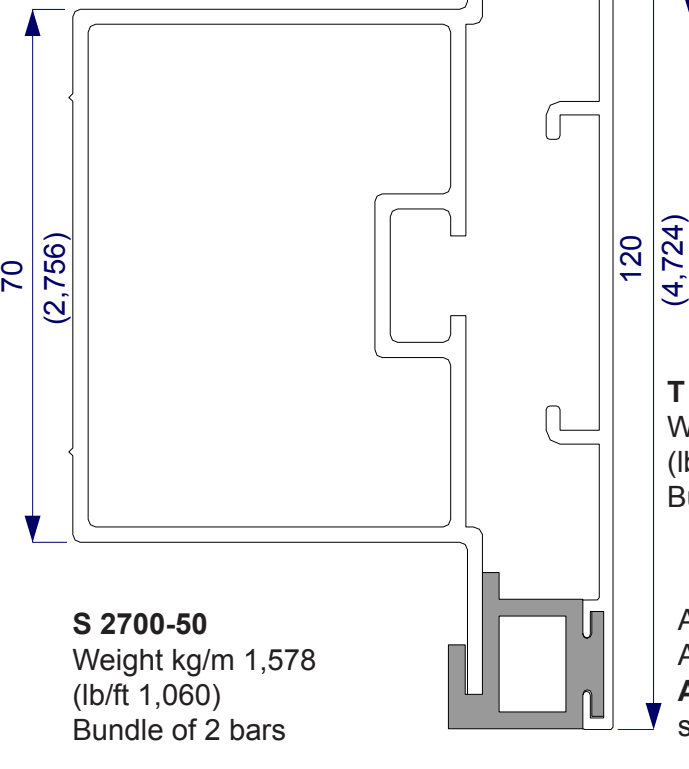
Weight kg/m 2,750
(lb/ft 1,848)
Bundle of 1 bar



T 2700-50

Weight kg/m 0,636
(lb/ft 0,454)
Bundle of 10 bars

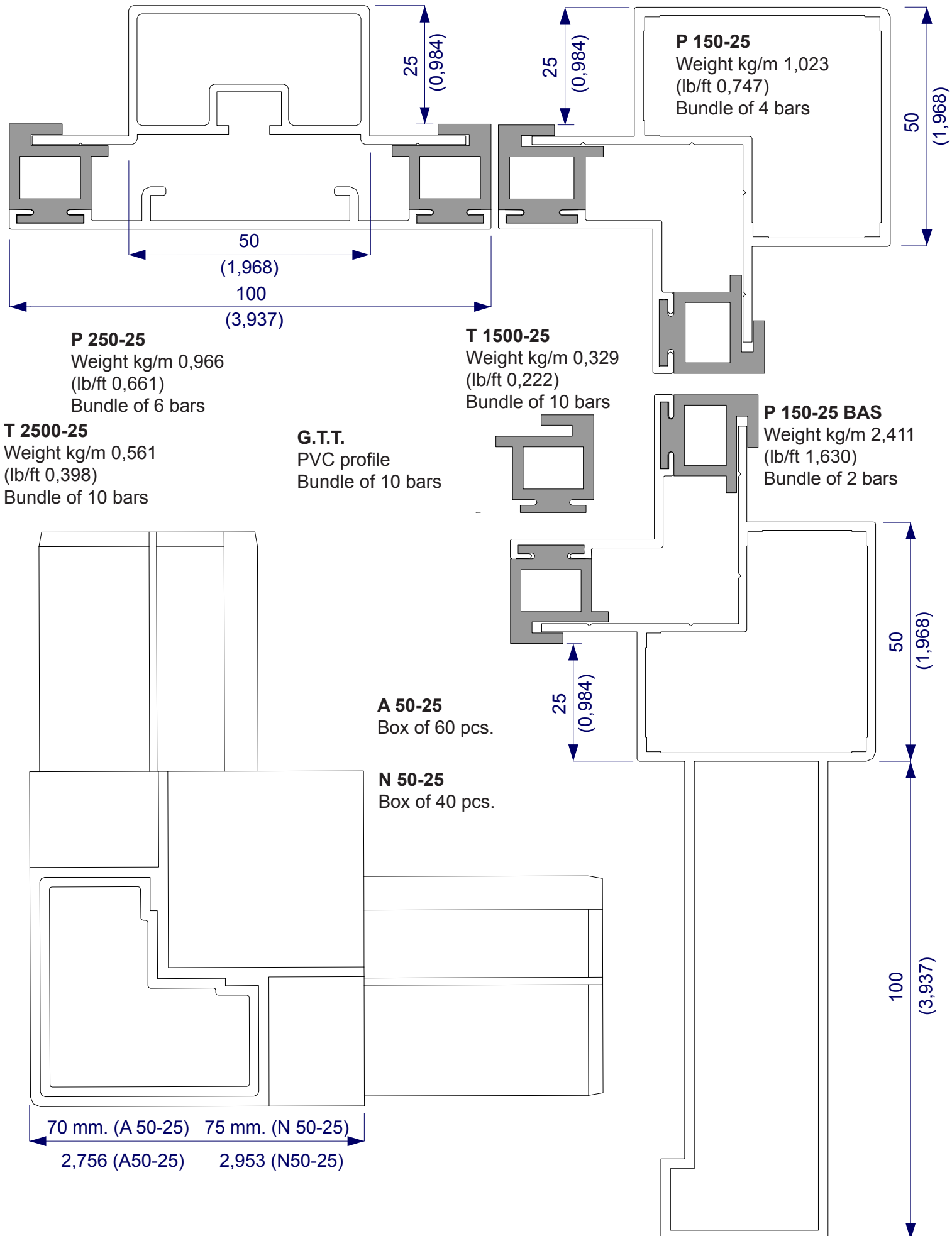
Available
Aluminium corner:
AS 70-50
see section 04 page 10



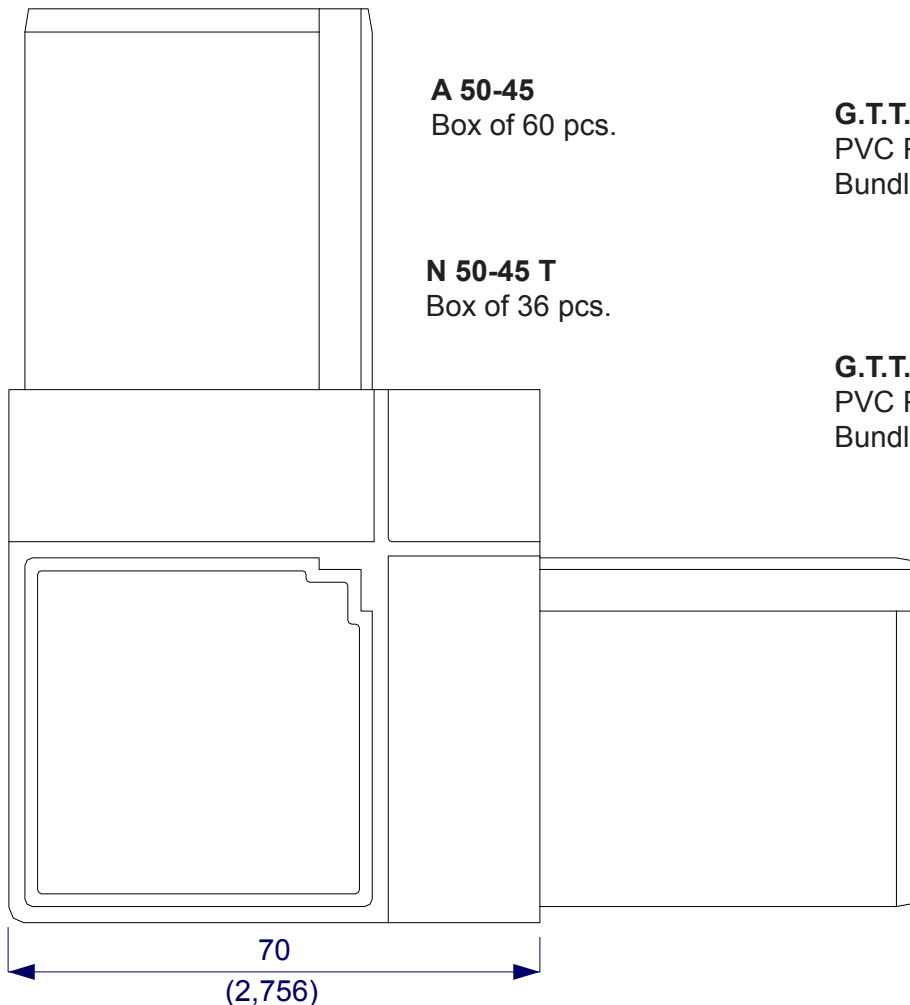
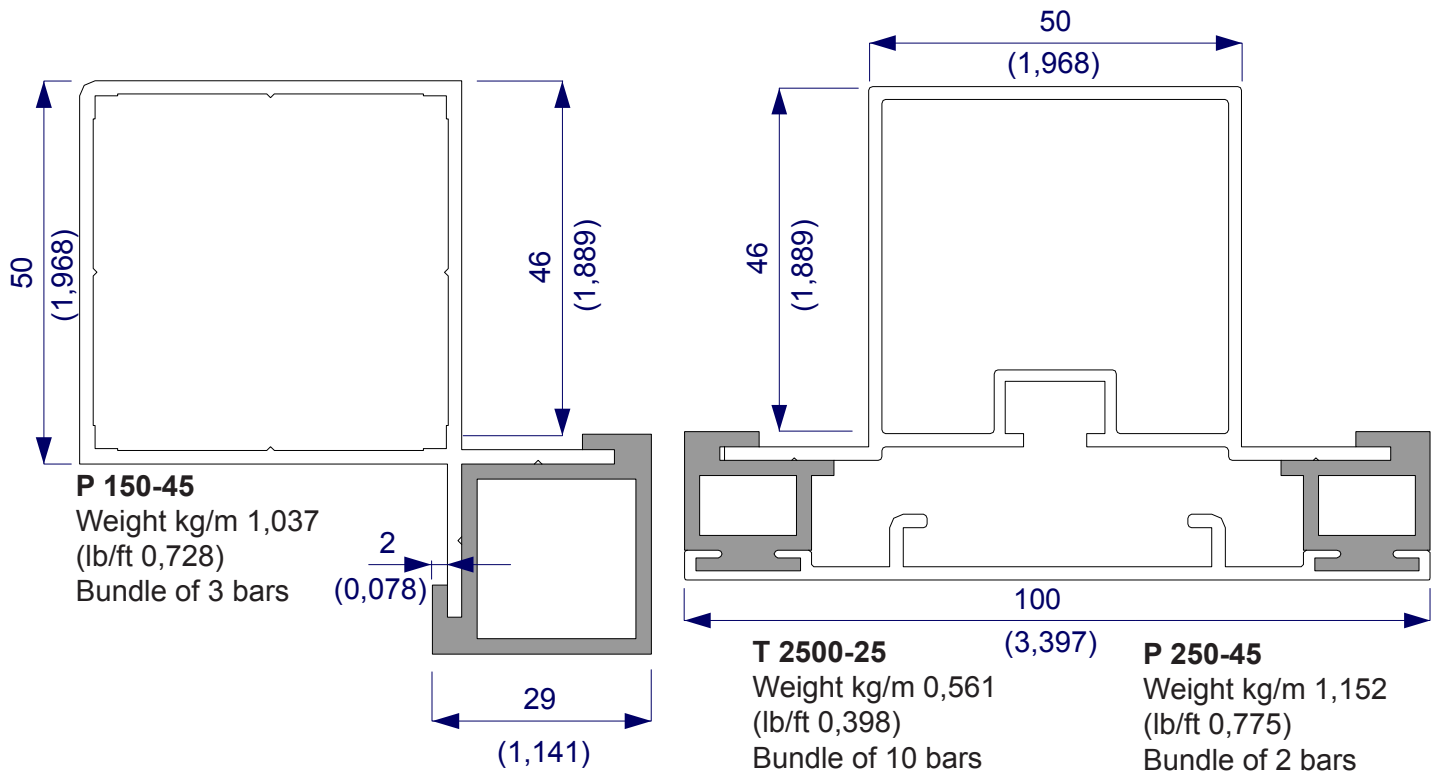
S 2700-50

Weight kg/m 1,578
(lb/ft 1,060)
Bundle of 2 bars

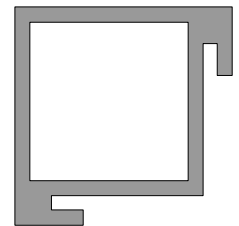
Square profile (section **50** panel **25** mm; aluminium and nylon corner)



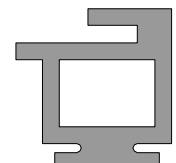
Square profile (section **50** panel **45** mm; aluminium and nylon corner)



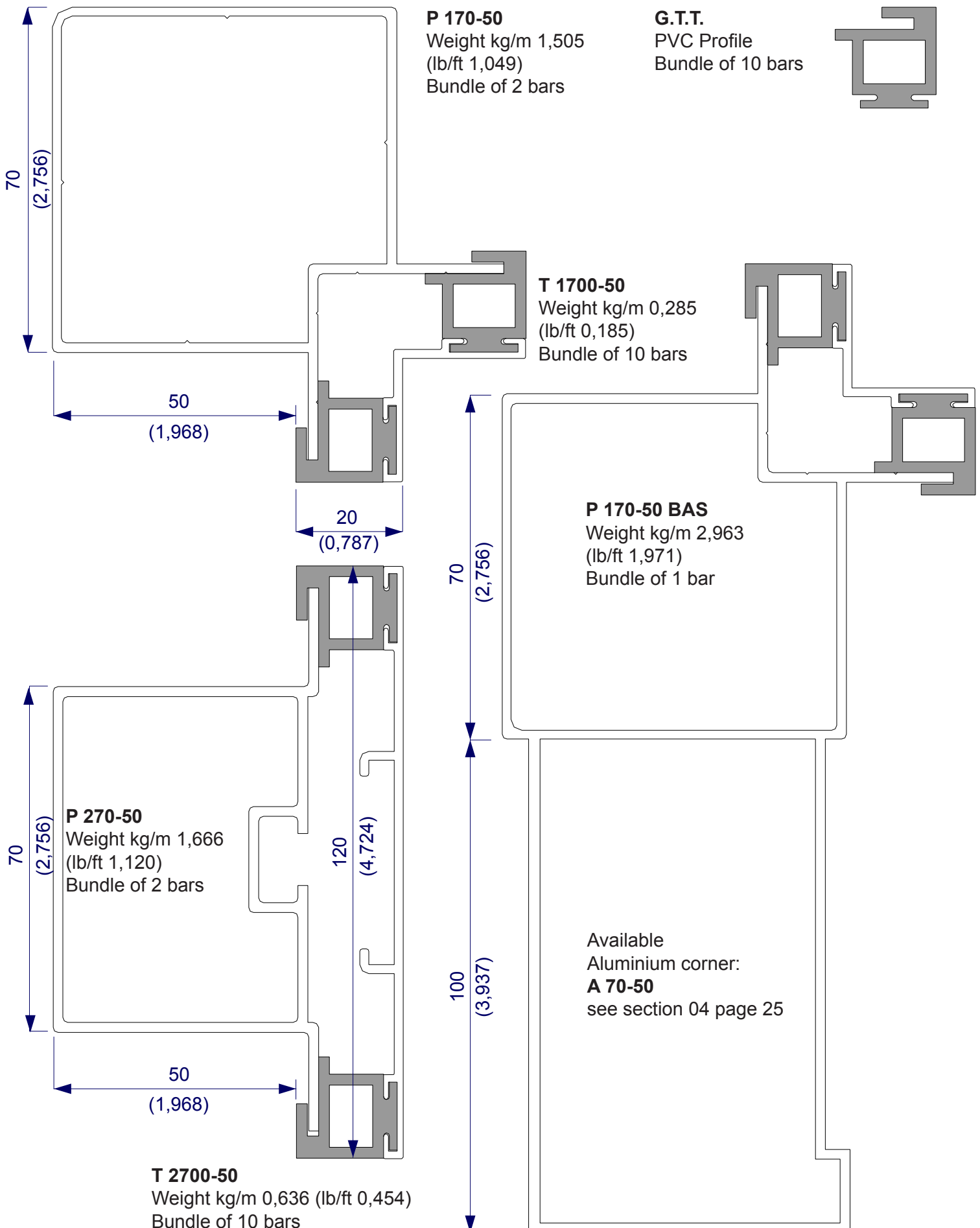
G.T.T. 1
PVC Profile
Bundle of 10 bars

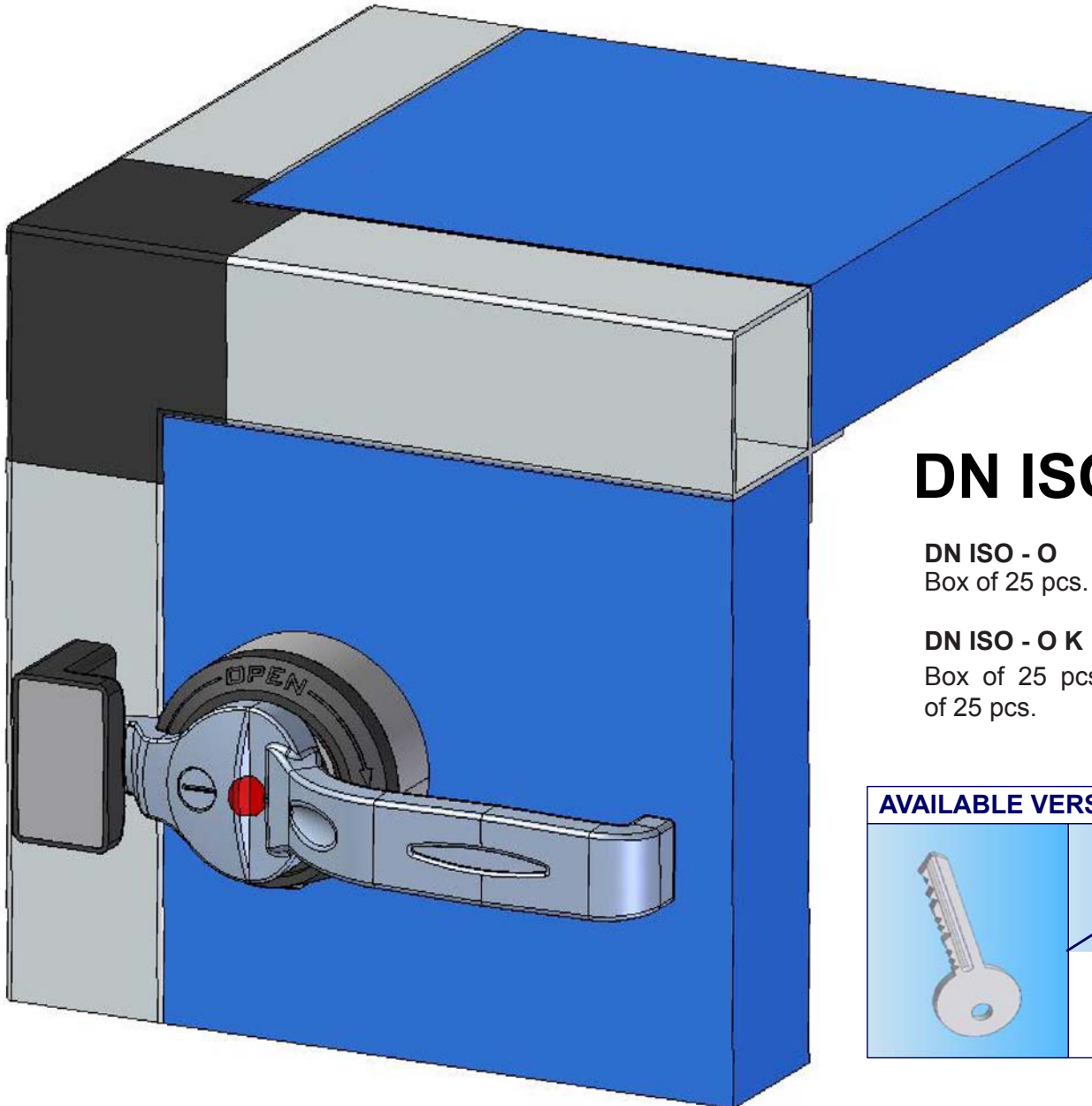


G.T.T.
PVC Profile
Bundle of 10 bars



Square profile (section **70** panel **50** mm; aluminium corner)



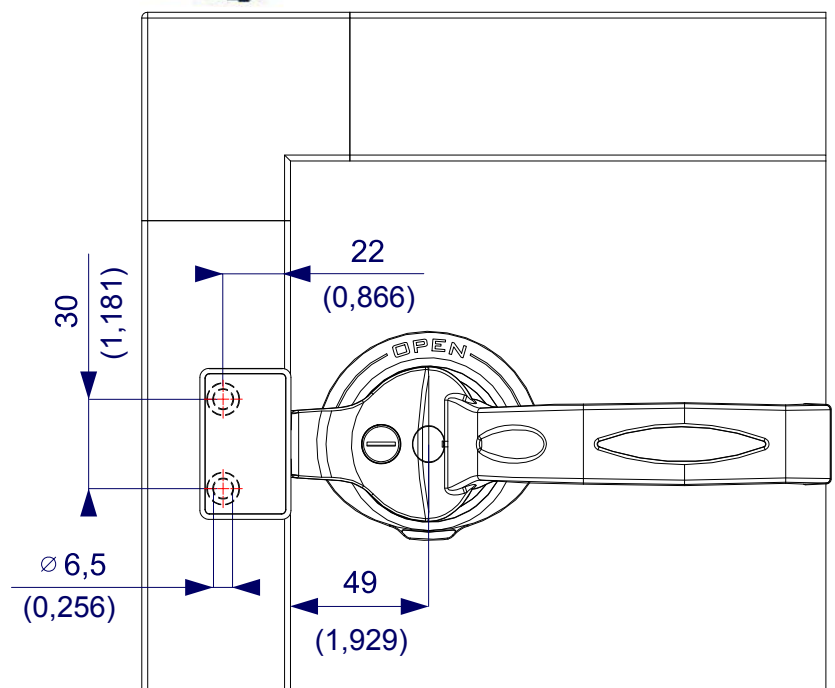
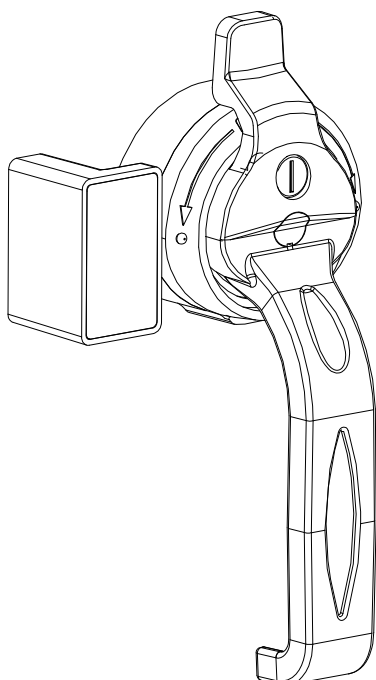
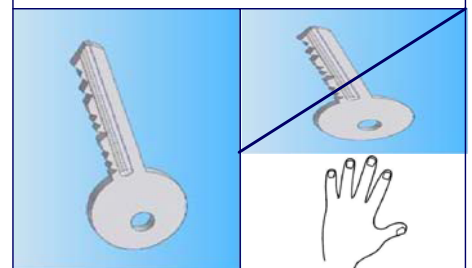


DN ISO - O

DN ISO - O
Box of 25 pcs.

DN ISO - O K
Box of 25 pcs. Box
of 25 pcs.

AVAILABLE VERSIONS



Handles and locks

The first pages of this section give an outline of the closing lock AN 80 and the double handle AN 70. These two accessories are in black nylon with an aluminium pin. The latch is fastened by self tapping screws threaded through nylon and aluminium.

Screw holes are not marked as their position is determined by the user. There is also a stopper that must be screwed into the panel to limit the handle run to 90°.

These two items are very versatile as they can be used with panels of various thickness.

Lock DN 90 is quite strong and it is used when a flat panel with a flush surface is required.

The DN 200/201 and DN 850/860 are the top of range for their finish and design characteristics.

These items are equipped with a tropicalised steel pin with screws at both ends where the handle and latch are fitted.

These handles are available for panels of 20, 25, 45 and 50 mm thick. Pins of different lengths are available on request.

Nylon screw-guide bushes

The screw-guide N 870 is suitable for panels 25 mm thick and the N 871 for panels 45 and 50 mm thick.

Hinges

It is important to note the technical aspects of these hinges as they include a self-lubricating "thermoplastic" pin.

This pin does not only increase the operating efficiency of the hinge itself but it is also corrosion resistant.

These nylon hinges are produced in two different versions.

The standard version (N 152, N 148) has the axle hole "perfectly" round, while the more innovative version (N 150, N 149) has the axle hole slightly oval to compensate for potential mis-alignment between the panel and the profile.

Aluminium hinges are available in black and silver colours.

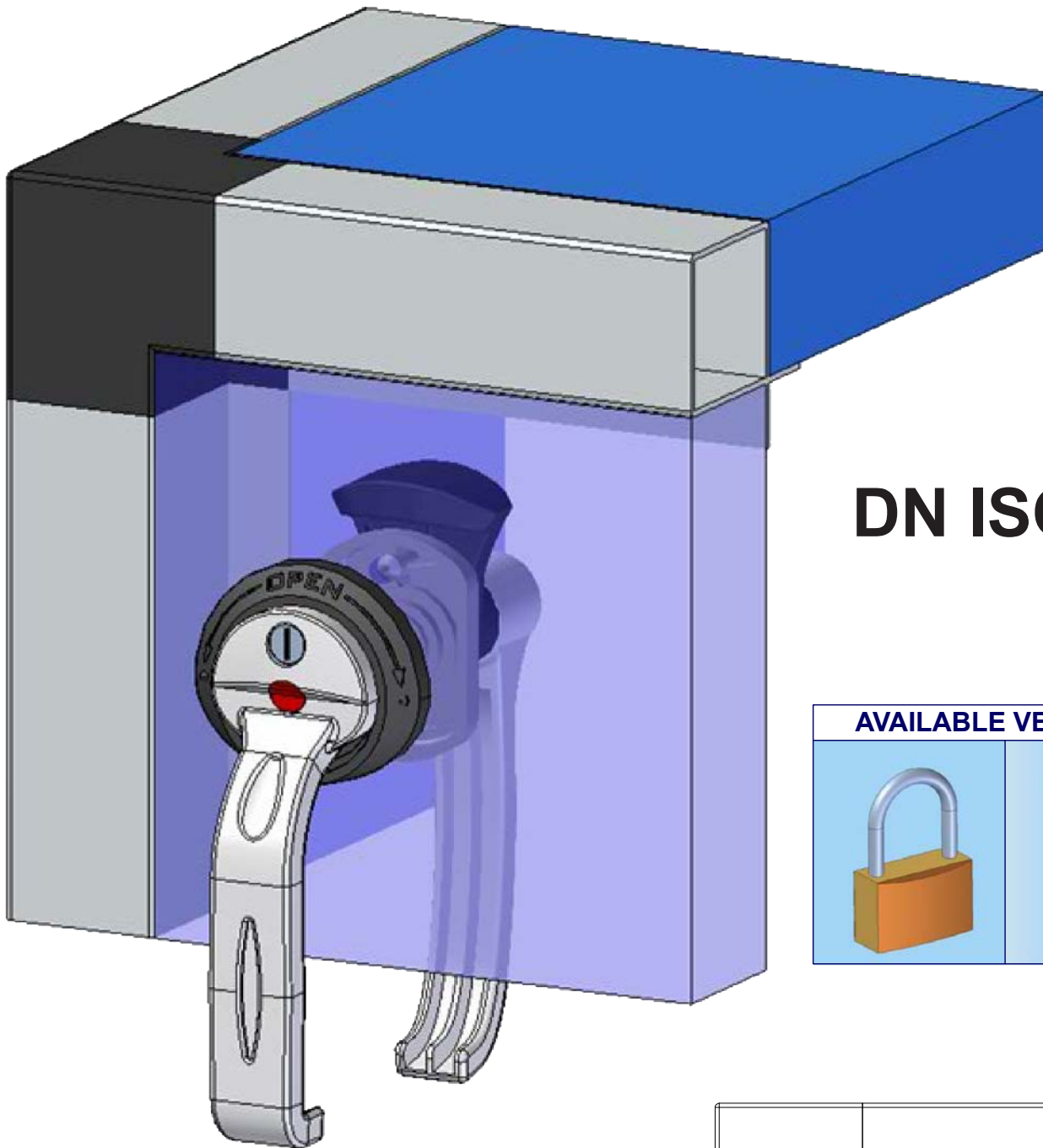
Portholes

There are two available types of portholes available.

The first type (N 180-25/50 and N 181) is entirely in plexiglass and comes with a rubber gasket on the flange. The second, the larger one, has an external nylon ring and a transparent disc in plexiglass (N300, N302).

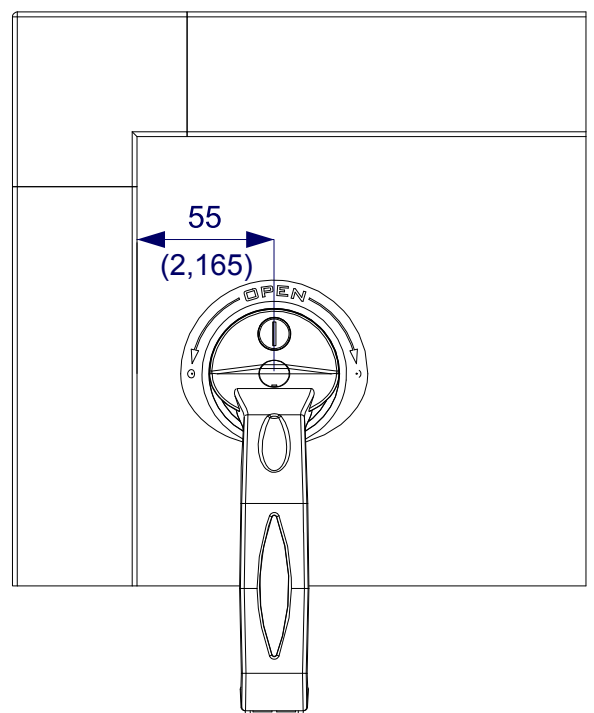
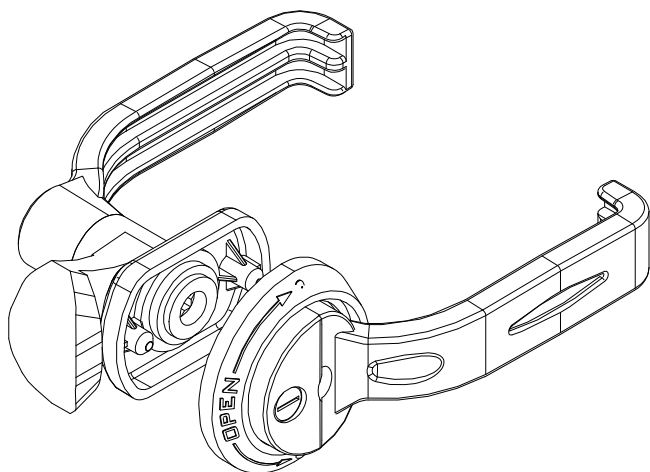
This porthole may also be used double.

The double porthole consists of two parts (N 300 + N 301), which can be fitted inside each other thereby making them adjustable. The adjustable porthole can be used with panels 25- 50 mm thick.



DN ISO

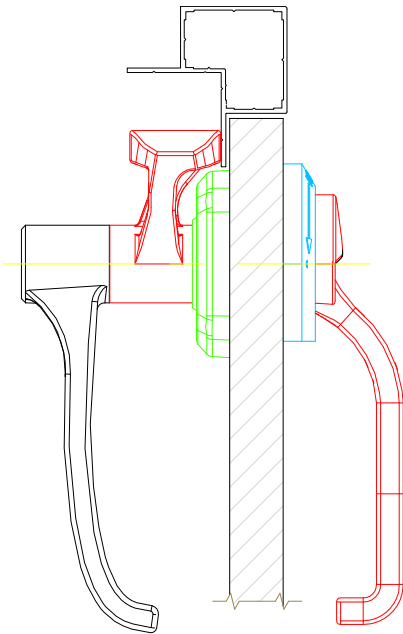
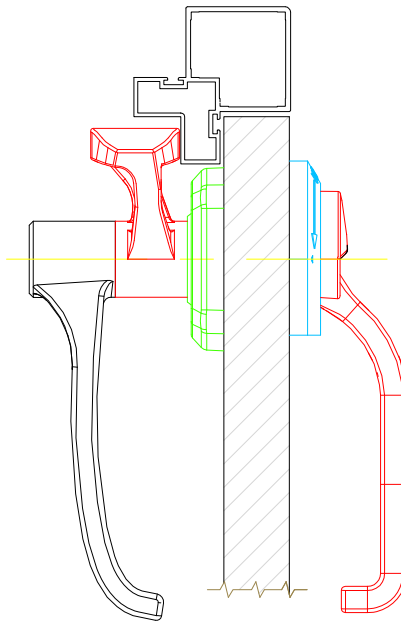
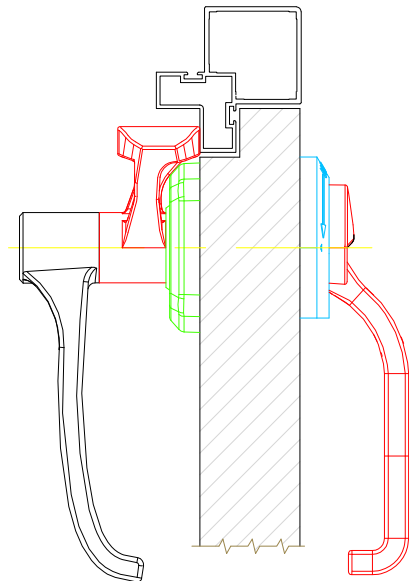
AVAILABLE VERSIONS



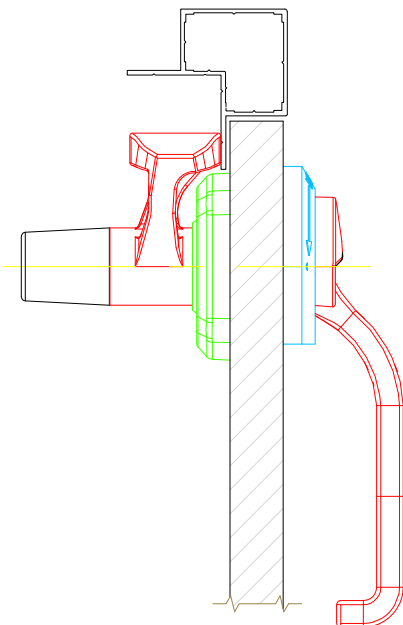
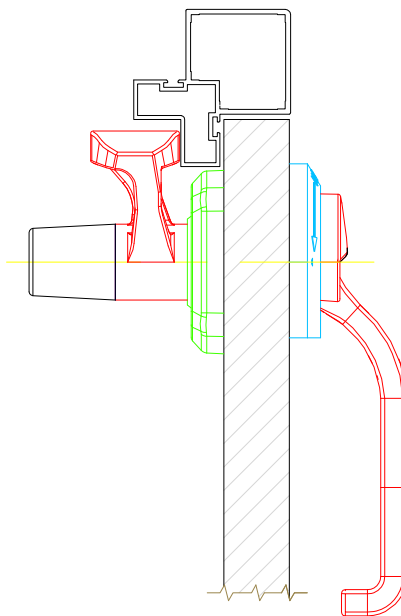
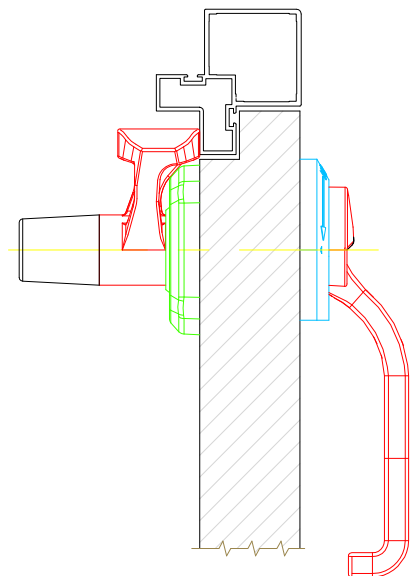
Handle DN ISO

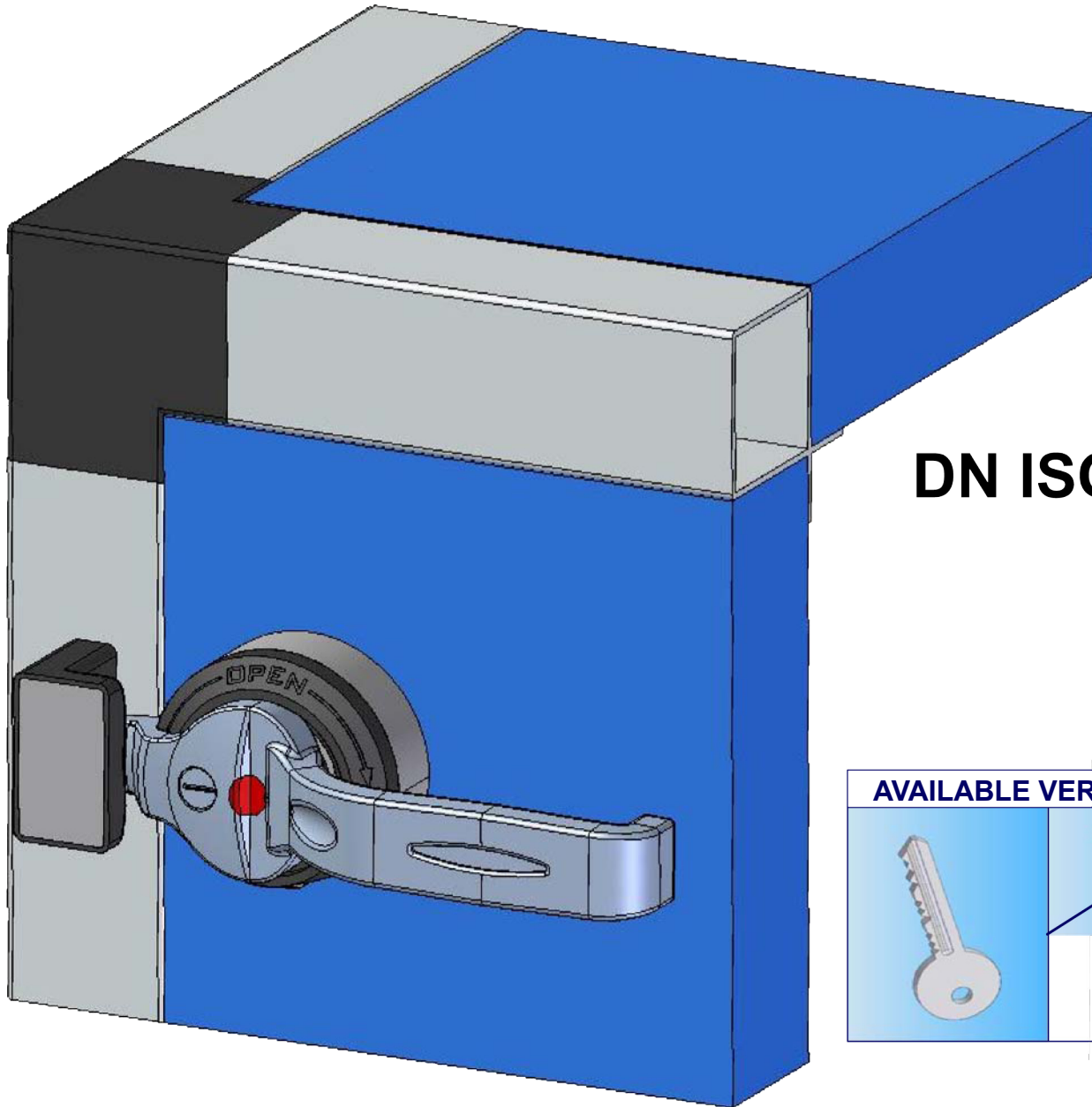
Box of 22 pcs.

Characteristics and versions: - available for all kind of panels
- available with removal key
- padlockable
- available for single or double wall profiles

Drawings of the available versions:**DN ISO**Single panel,
Internal handle**DN ISO**Single panel,
Double wall profile,
Internal handle**DN ISO**Single panel,
Double wall profile,
Internal handle**DN ISO**

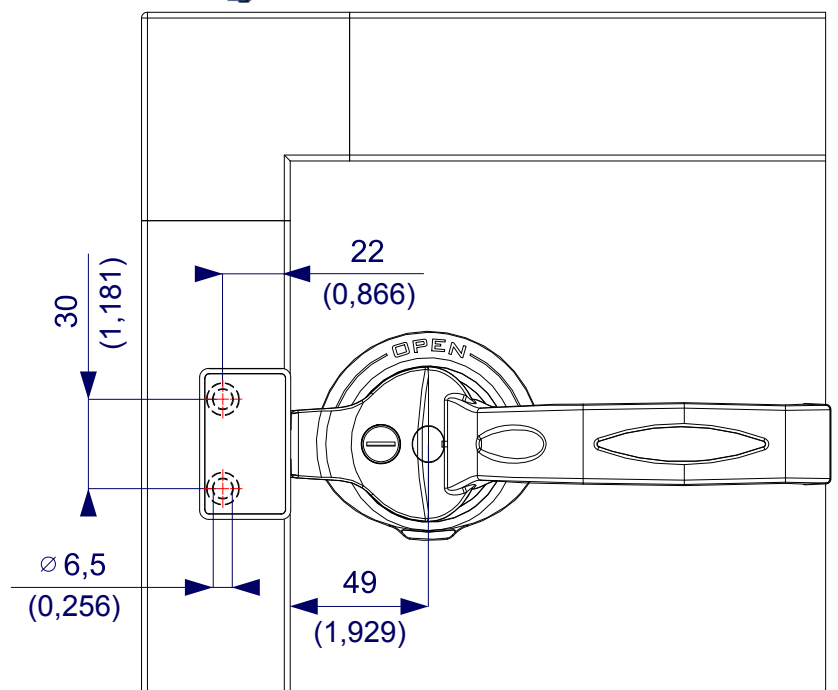
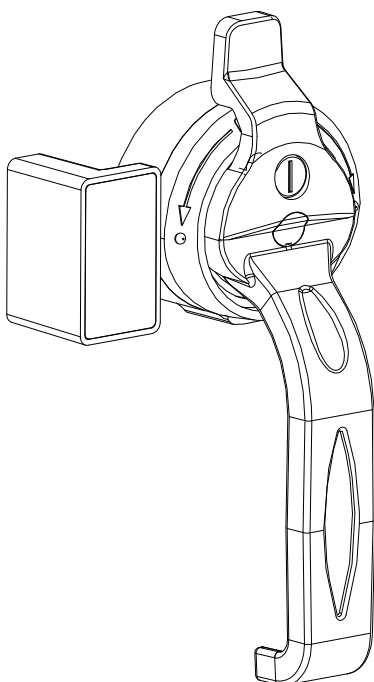
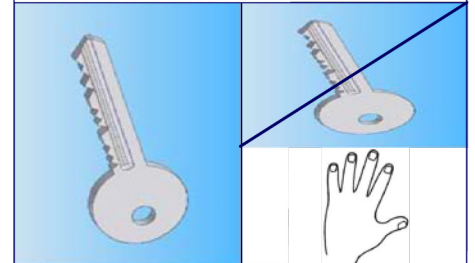
Single panel

**DN ISO**Single panel,
Double wall profile**DN ISO**Single panel,
Double wall profile



DN ISO - O

AVAILABLE VERSIONS



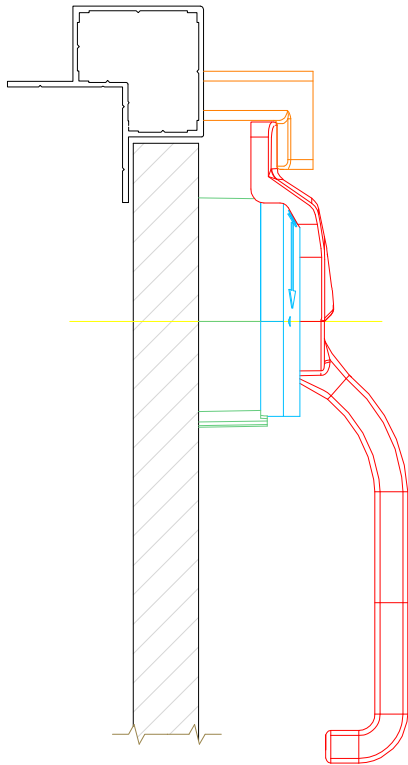
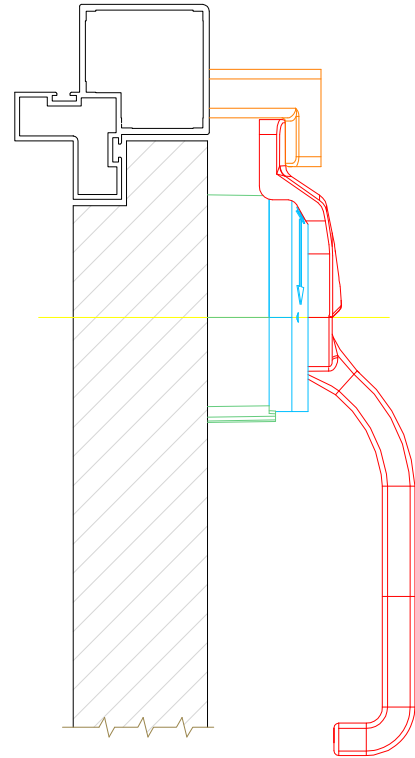
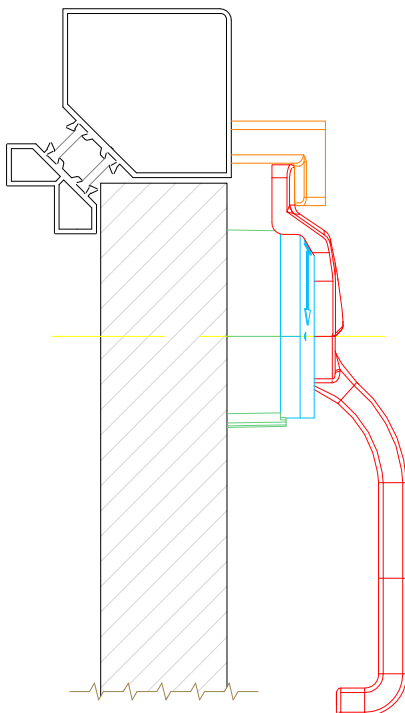
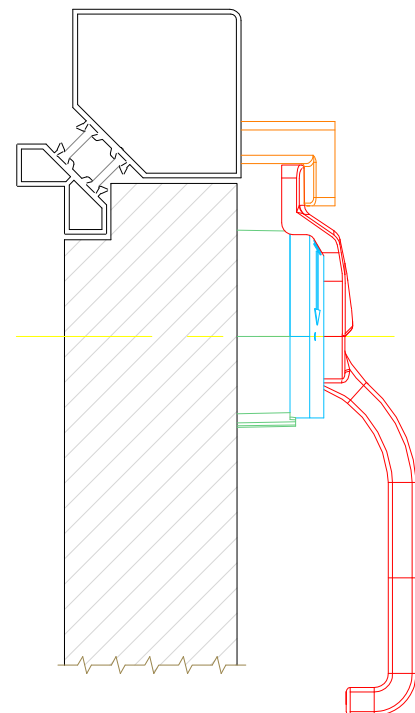
Handle DN ISO - O

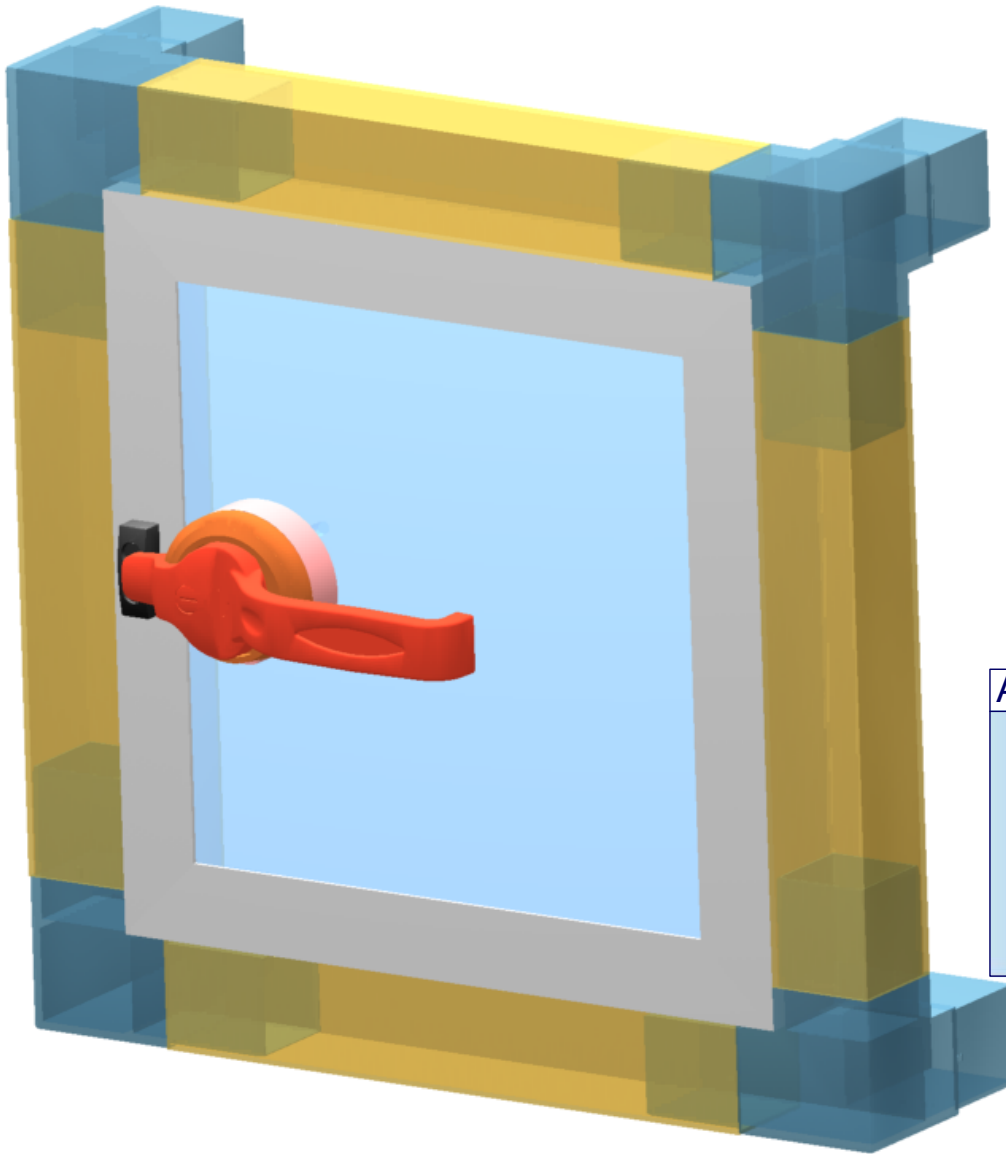
Box of 25 pcs.

Characteristics and versions: - available for thermal break profiles and frames
- single version for all profiles and panels
- available with removal key

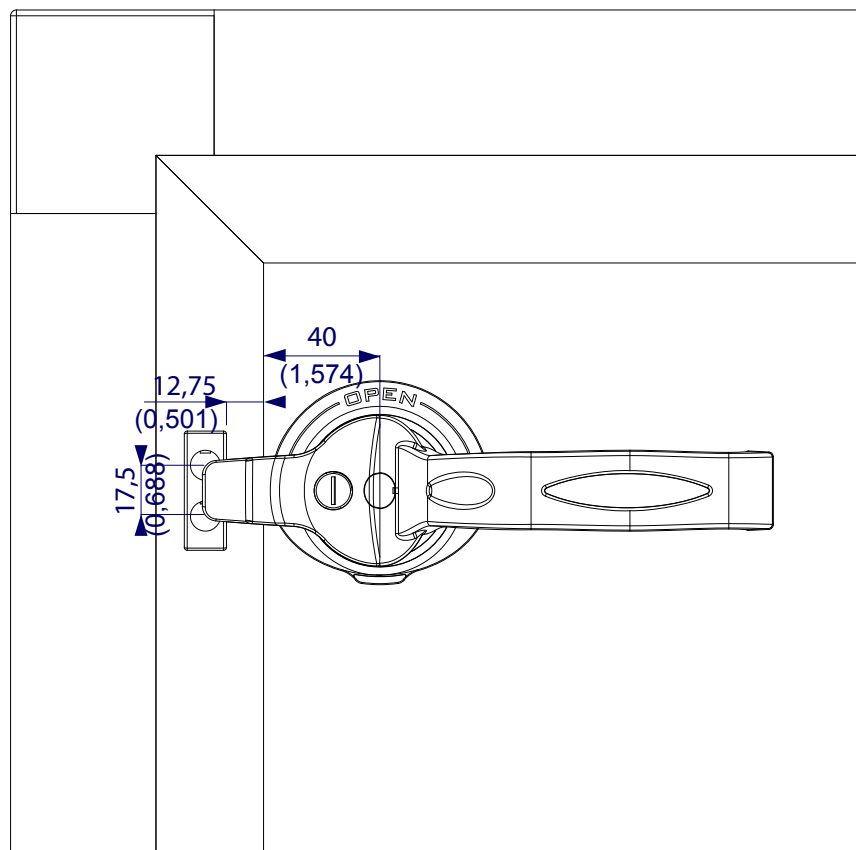
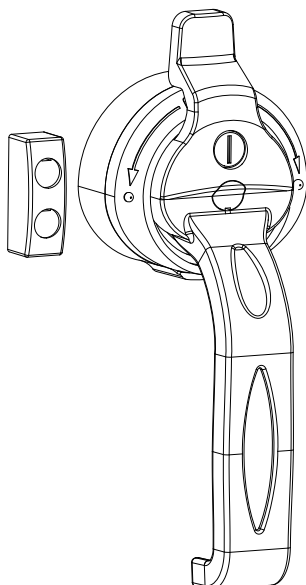
Drawings of the different versions: Drawings of the available versions:**DN ISO - O**

Single panel

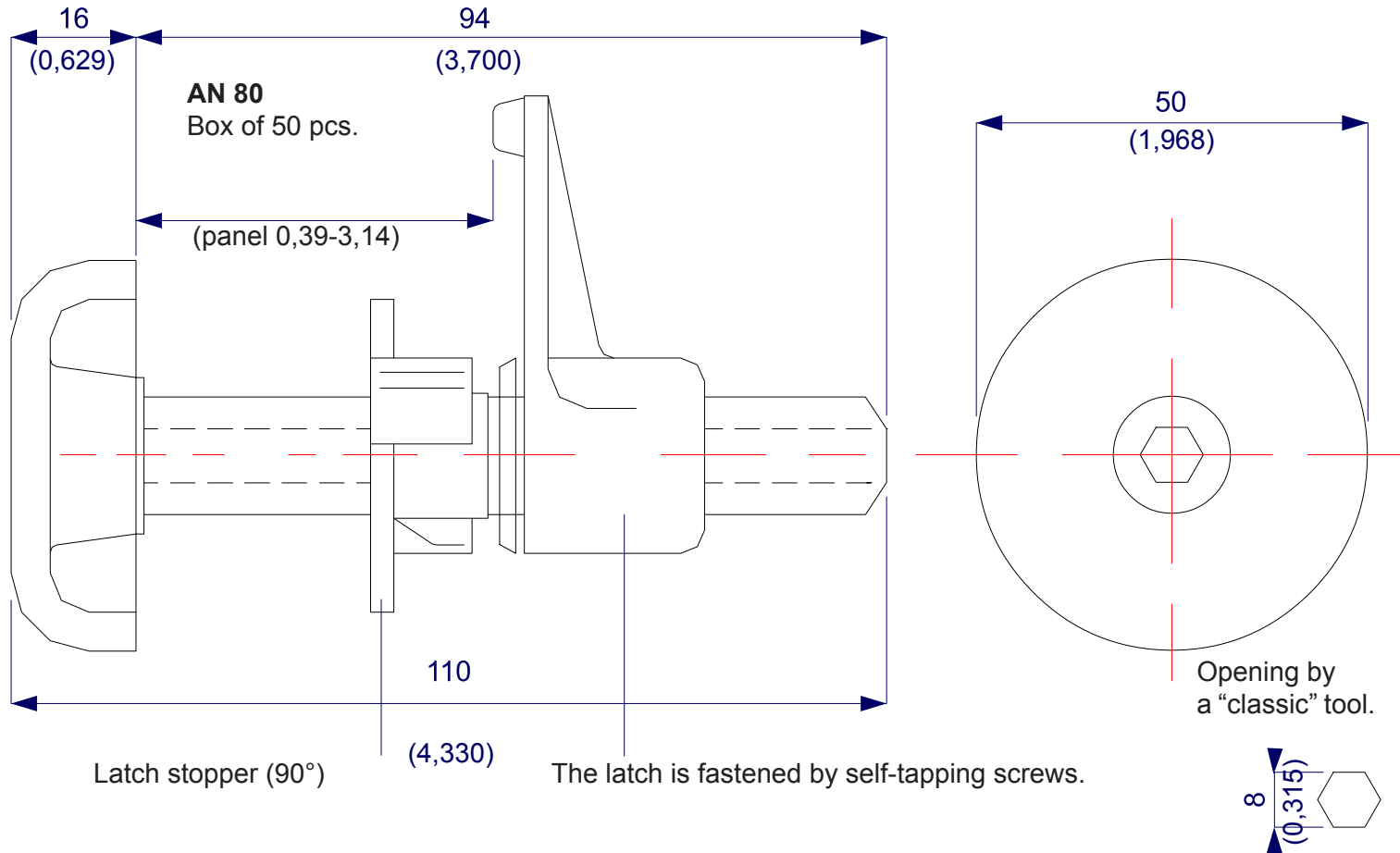
**DN ISO - O**Double panel,
Double wall profile**DN ISO - O**Single panel,
Thermal break profile**DN ISO - O**Double panel,
Thermal break profile



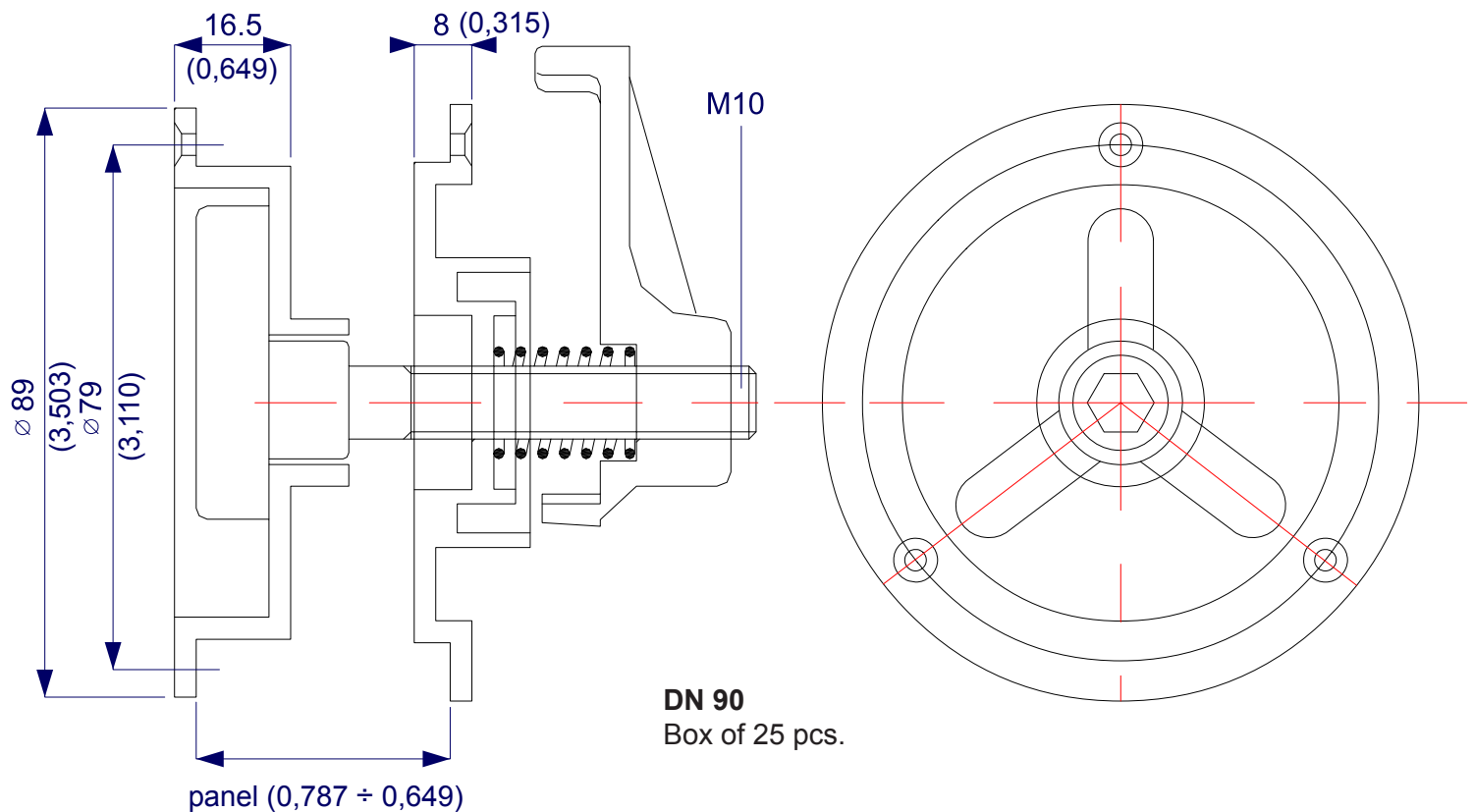
DN ISO-0 P



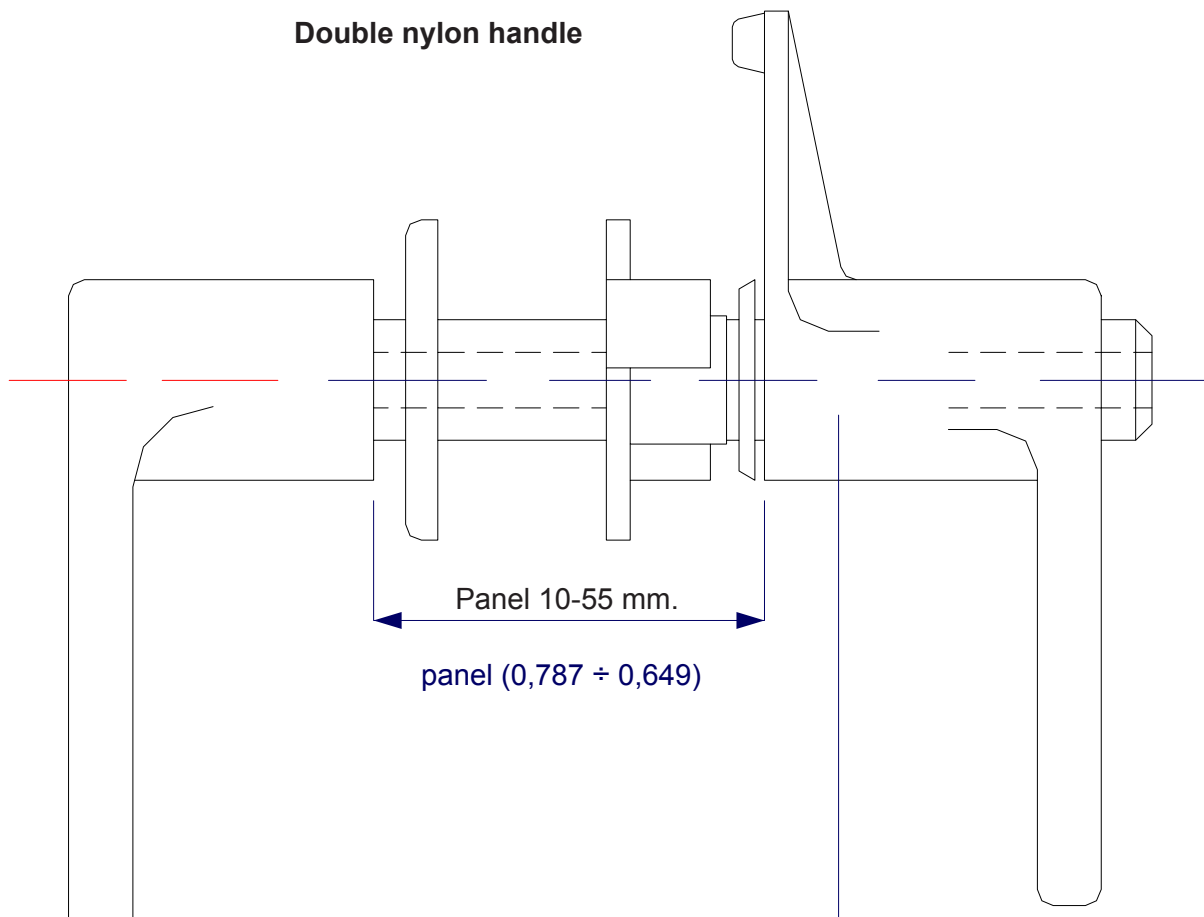
Nylon lock with aluminium pin



Flat lock (plain handle with the panel)



Double nylon handle

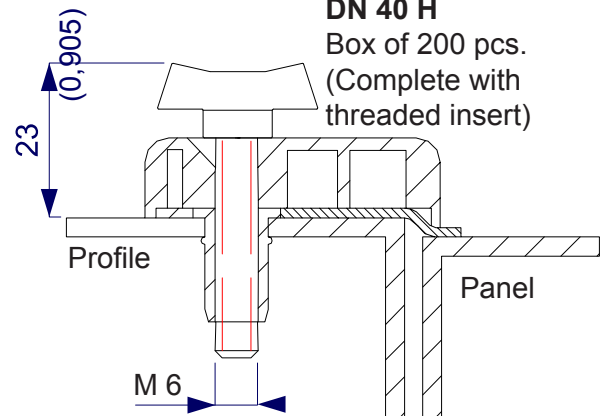


The latch is fastened by self-tapping screws and can be used as a handle (internal).

AN 70
Box of 50 pcs.

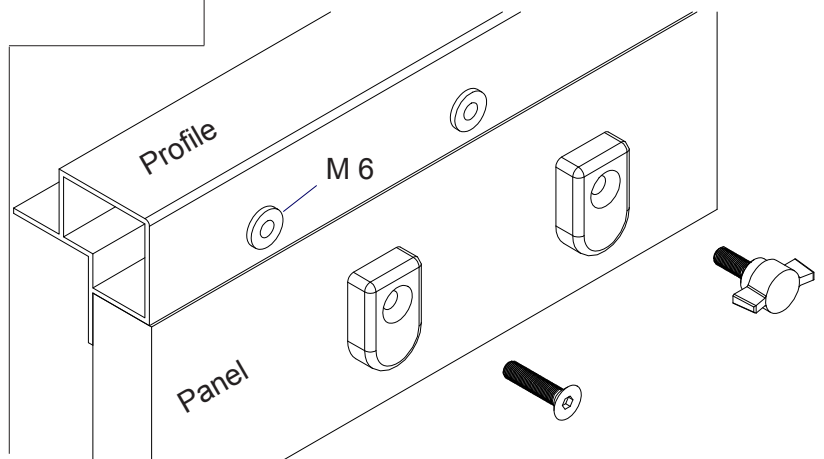
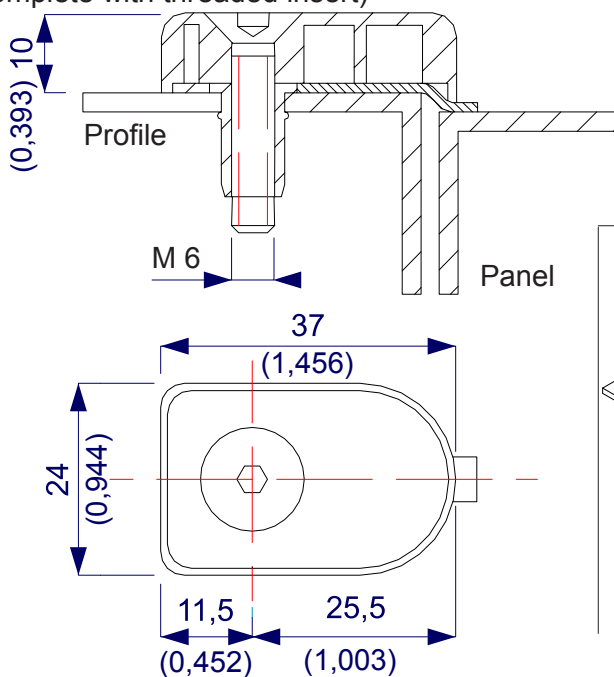
Nylon panel stop with knob

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

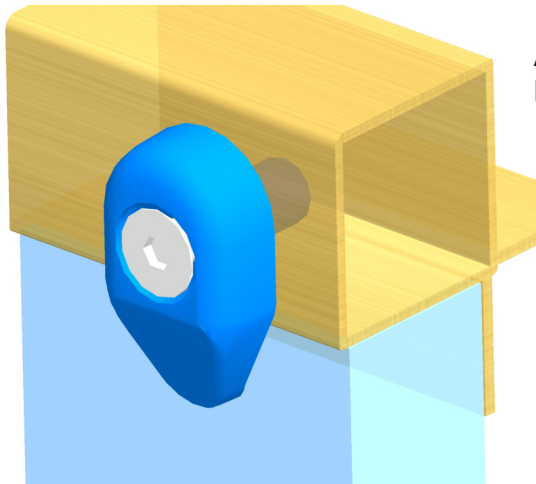


DN 40
Box of 200 pcs.
(Complete with threaded insert)

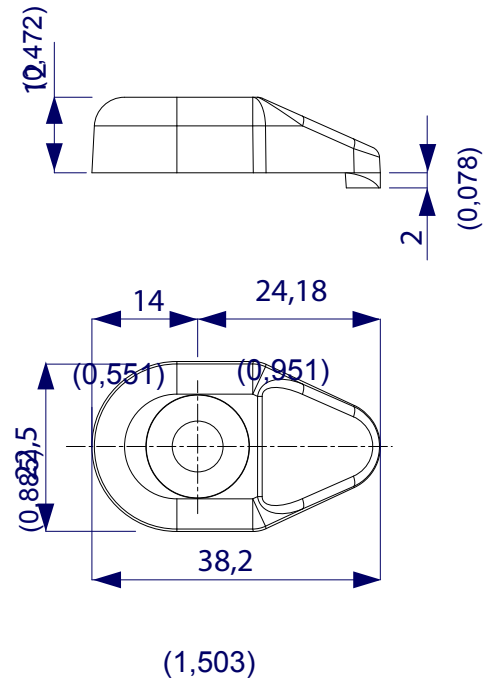
Nylon panel stop



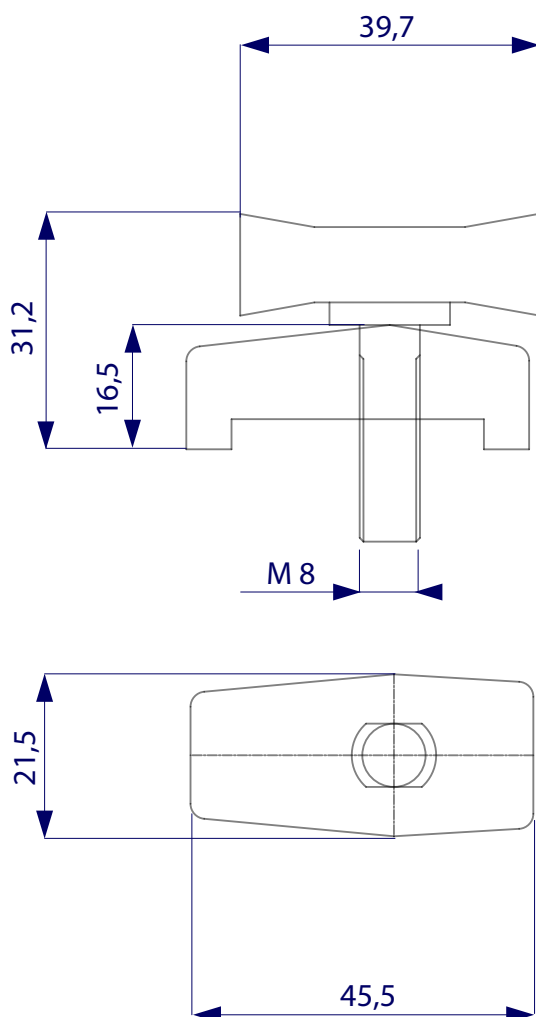
Aluminium panel stop



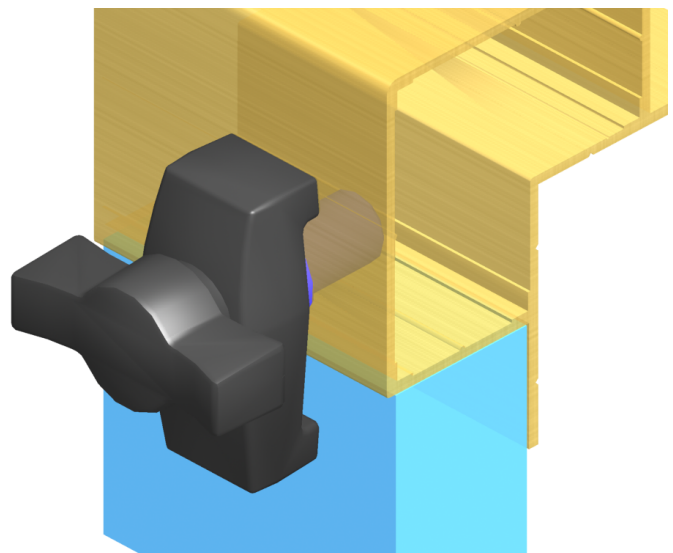
A 40
Box of 400 pcs.



Double nylon panel stop with knob



DN 42
Box of 200 pcs.
(Complete with threaded insert)



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

Keep a gap of 2 mm. (0,078 in) between panel and profile

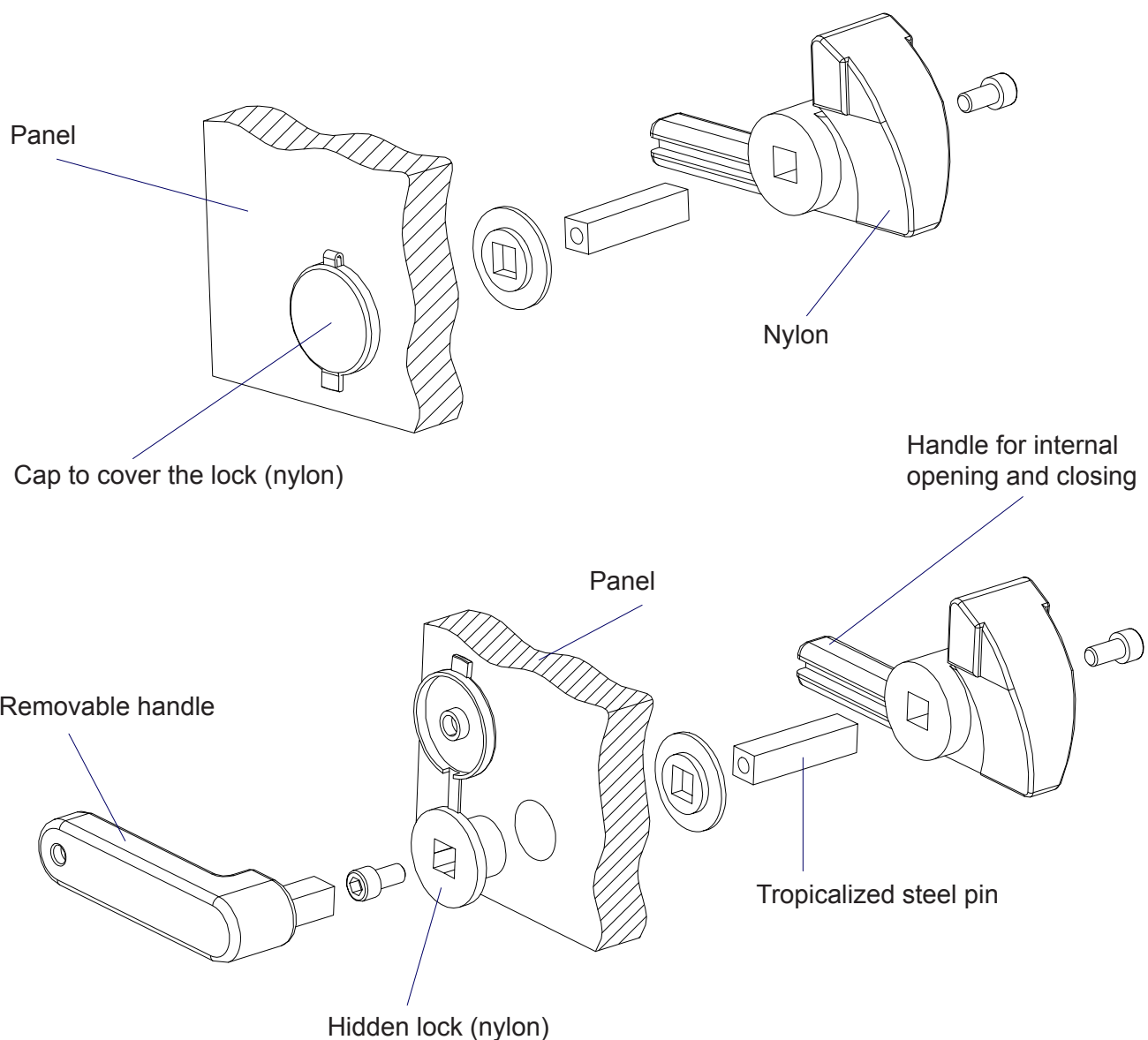
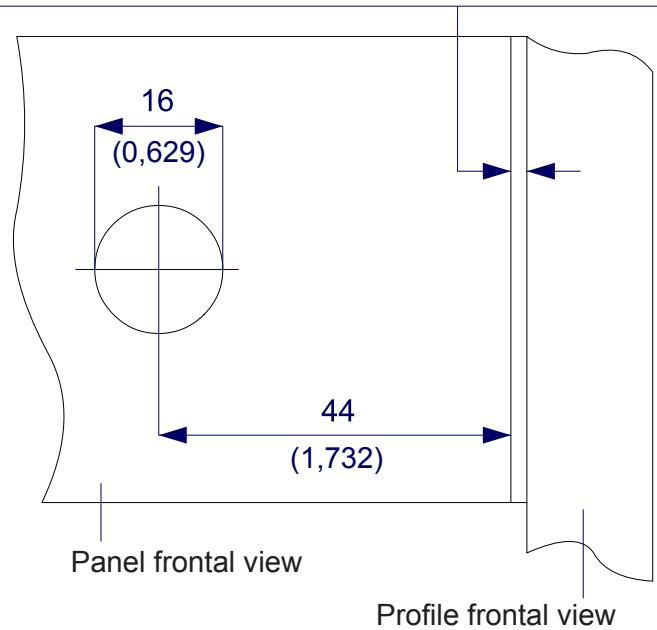
DN SF 14-17 Lock Box of 50 pcs.

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.

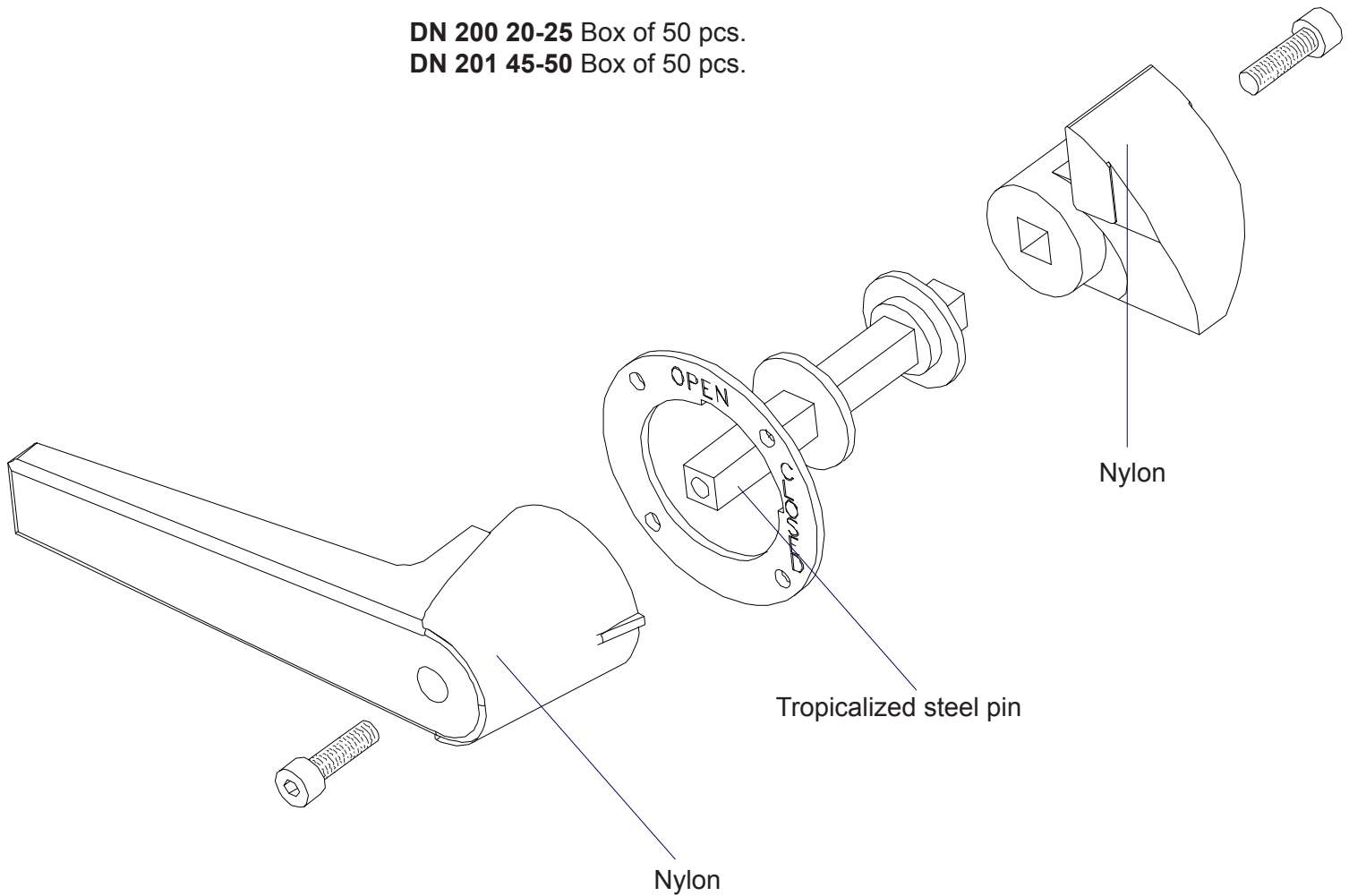
DN SF 49-54 Lock Box of 50 pcs.



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

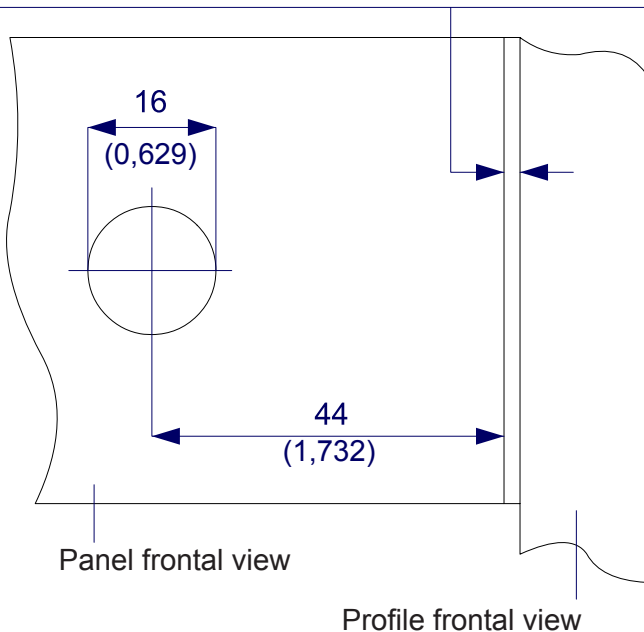
DN 200 20-25 Box of 50 pcs.

DN 201 45-50 Box of 50 pcs.



Hole distance for handle

Keep a gap of 2 mm. (0,787 in) between panel and profile



Available pins

DS 31 square pin 8 for DN 850 / 20-25
L = 31 mm. (1,220)

DS 56 square pin 8 for DN 860 / 45-50
L = 56 mm. (2,204) DN 200 / 20-25

DS 76 square pin 8 for handles mm. 76
L = 76 mm. (2,992)

DS 81 square pin 8 for DN 201 / 45-50
L = 81 mm. (3,189)

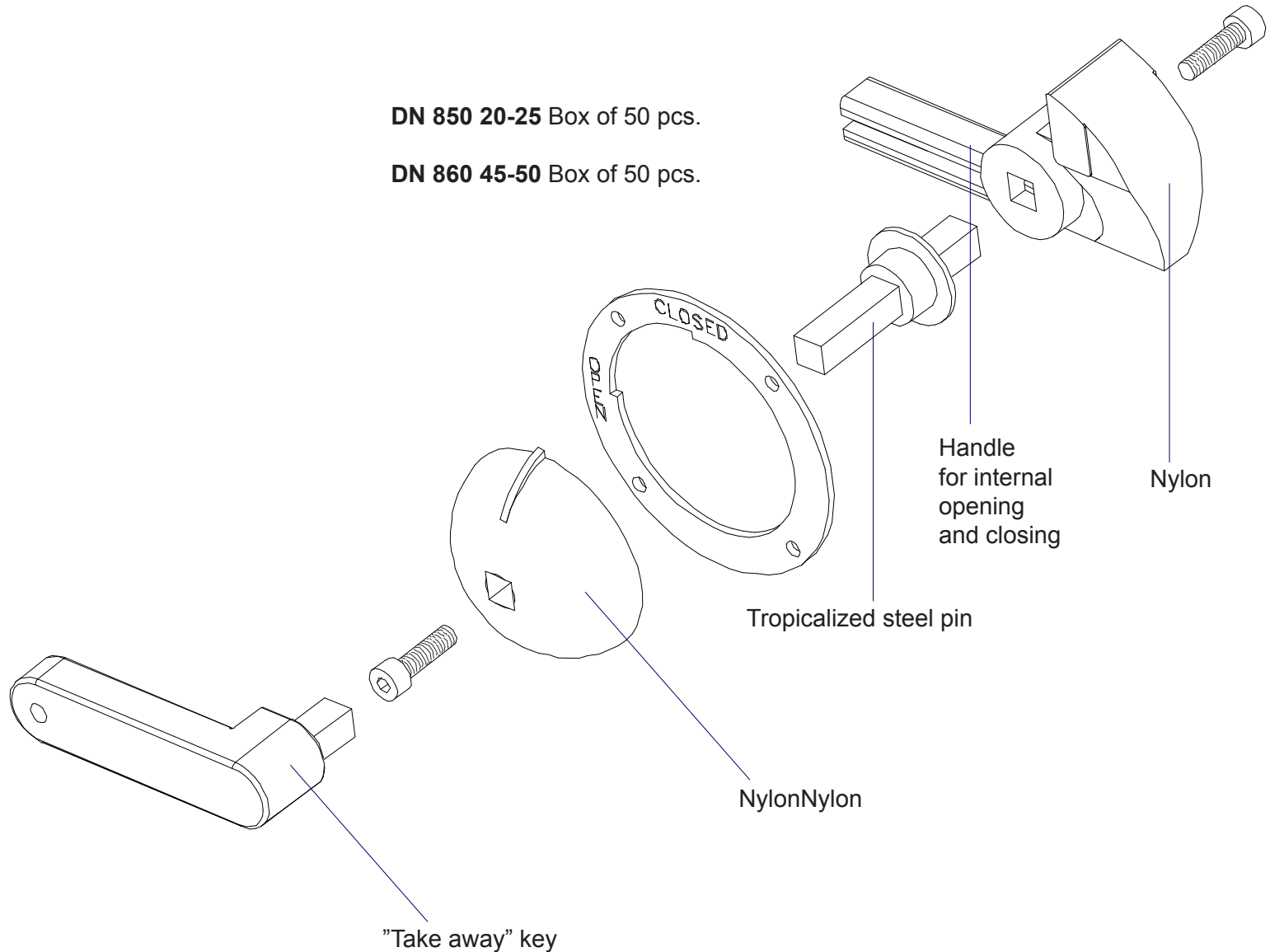
DS 96 square pin 8 for handles mm. 96
L = 96 mm. (3,779)

DS 106 square pin 8 for handles mm. 106
L = 106 mm. (4,173)

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

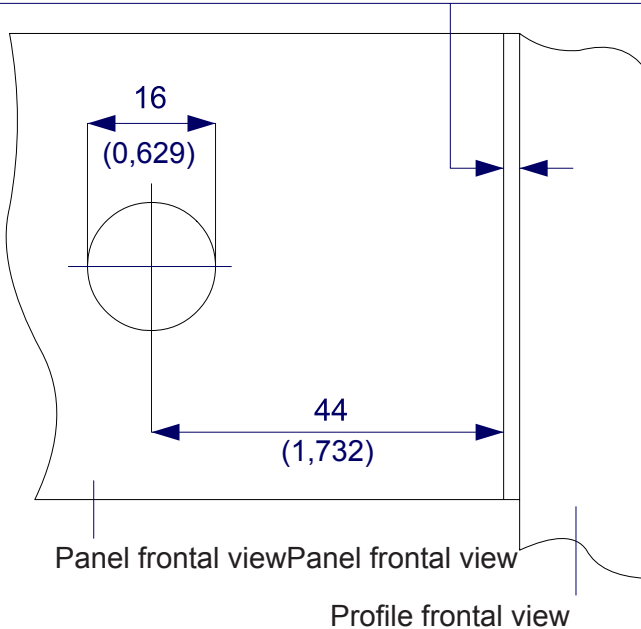
DN 850 20-25 Box of 50 pcs.

DN 860 45-50 Box of 50 pcs.



Hole distance for handle

Keep a gap of 2 mm. (0,787 in.) between panel and profile



Available pins

DS 31 square pin 8 for DN 850 / 20-25
L = 31mm. (1,220)

DS 56 square pin 8 for DN 860 / 45-50
L = 56 mm. (2,204) DN 200 / 20-25

DS 76 square pin 8 for handles mm. 76
L = 76 mm. (2,992)

DS 81 square pin 8 for DN 201 / 45-50
L = 81mm. (3,189)

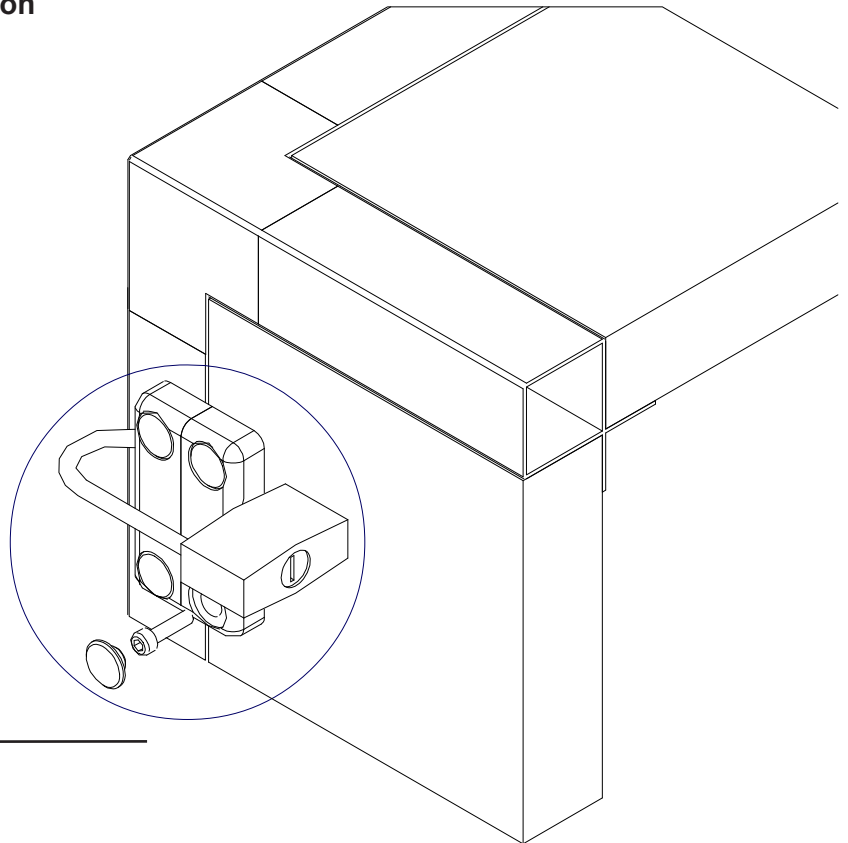
DS 96 square pin 8 for handles mm. 96
L = 96 mm. (3,779)

DS 106 square pin 8 for handles mm. 106
L = 106 mm. (4,173)

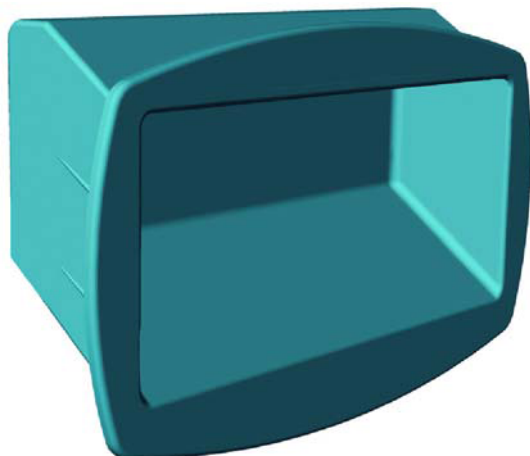
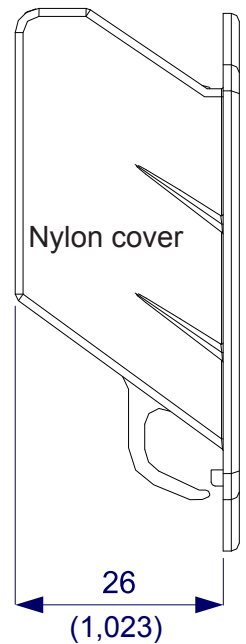
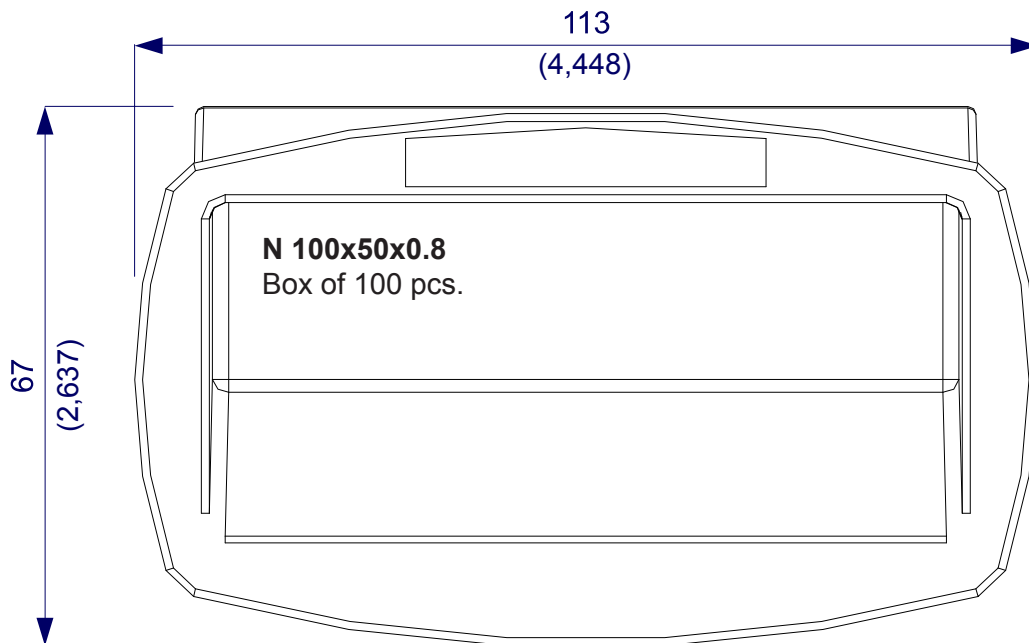
3D representation

ACB 80x50 P

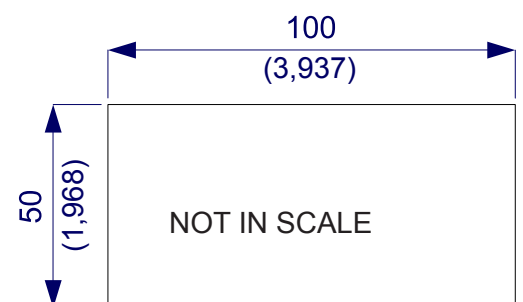
Padlockable aluminium lock for door
(padlock not included)
Box of 50 pcs.

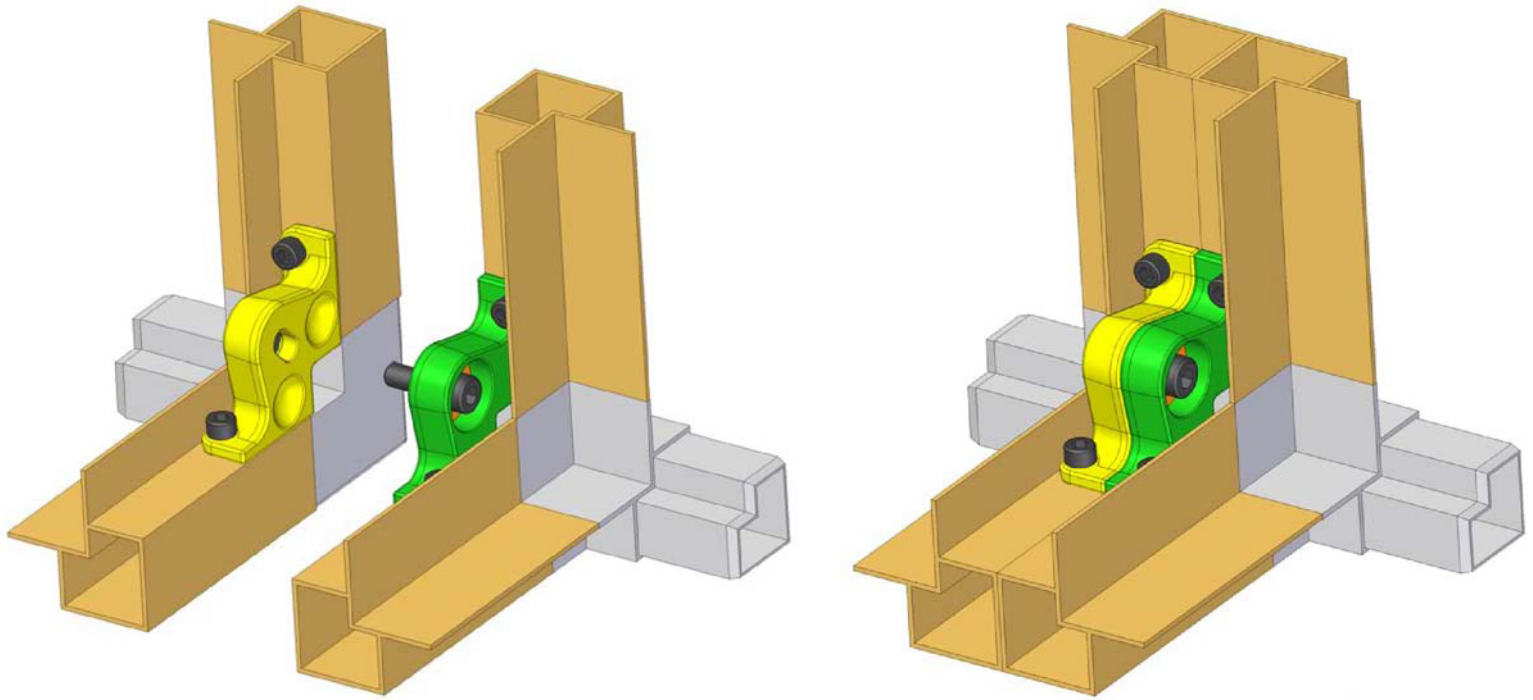


HANDLE IN LINE WITH THE PANEL



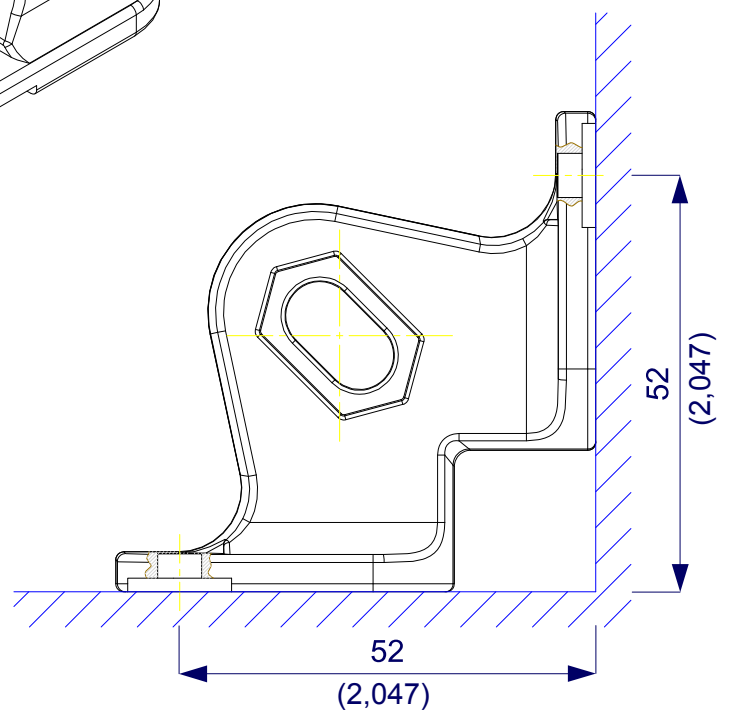
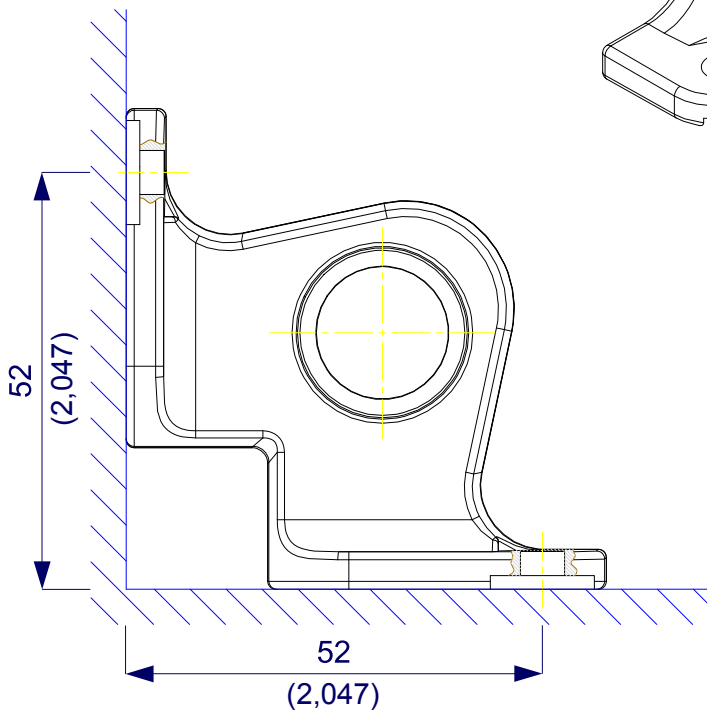
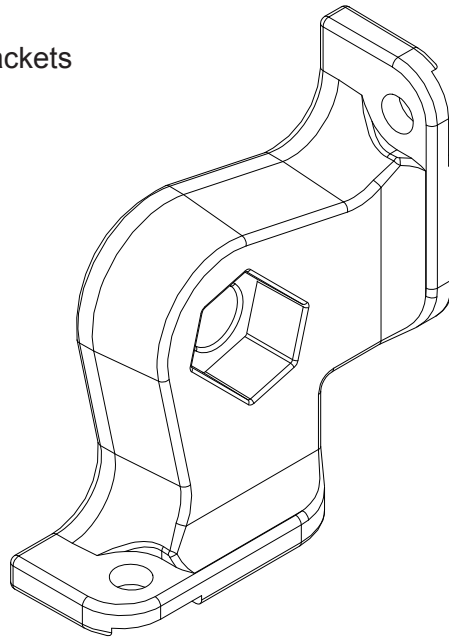
Sheet metal working

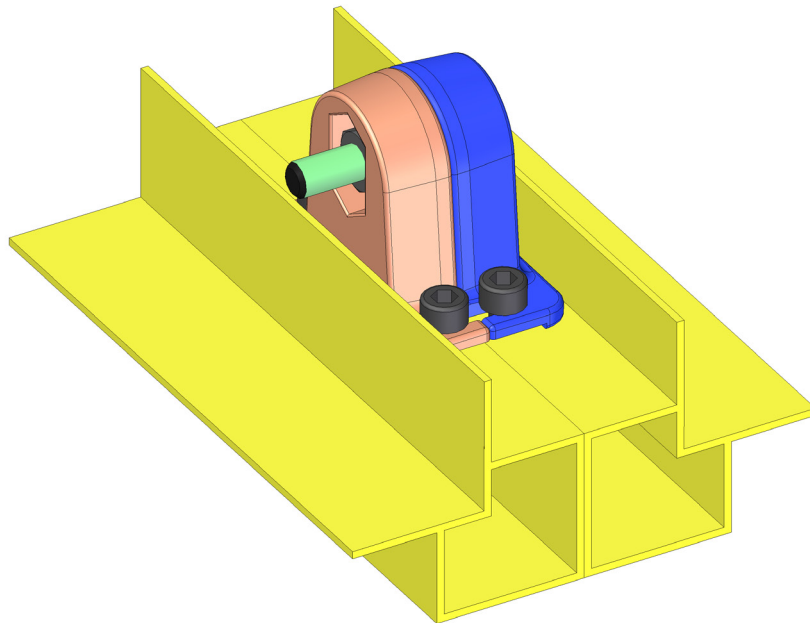




ACB-C1

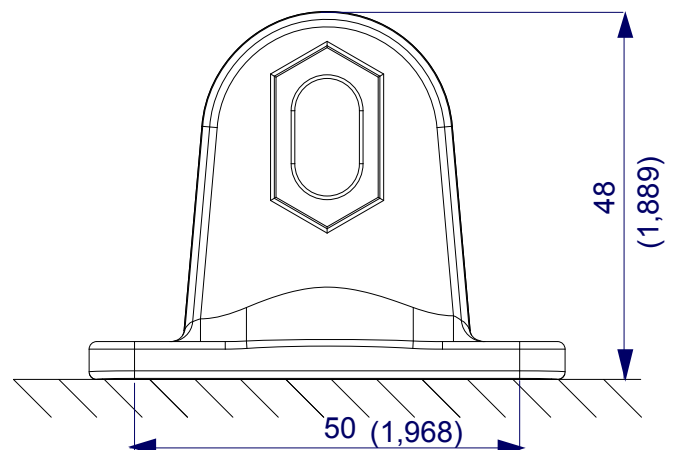
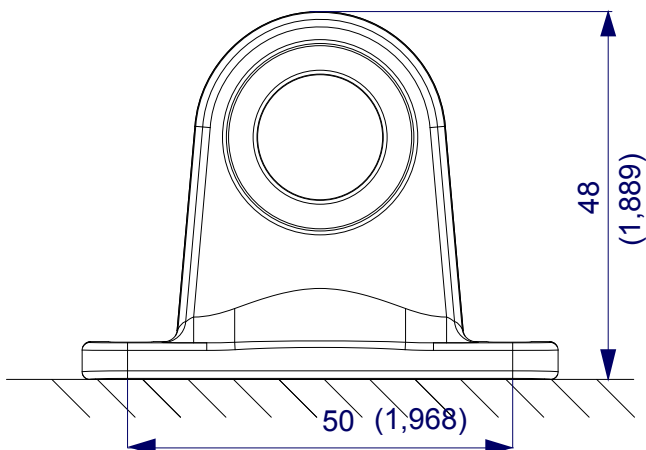
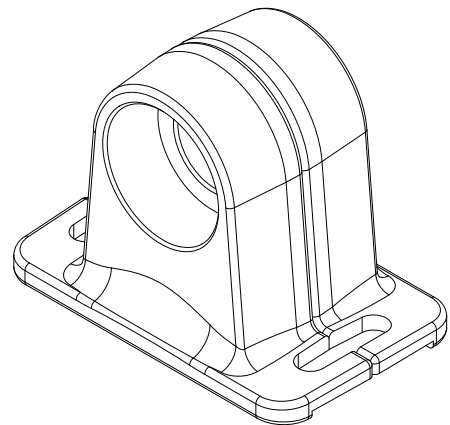
Aluminium connecting and centering brackets
Box of 50 pcs.

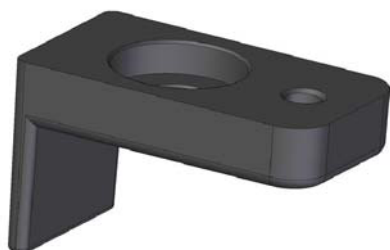




ACB-M1

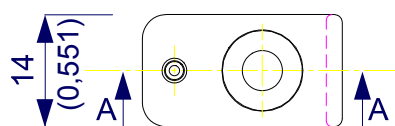
Aluminium clamps for connecting and centering clamps
Box of 50 pcs.



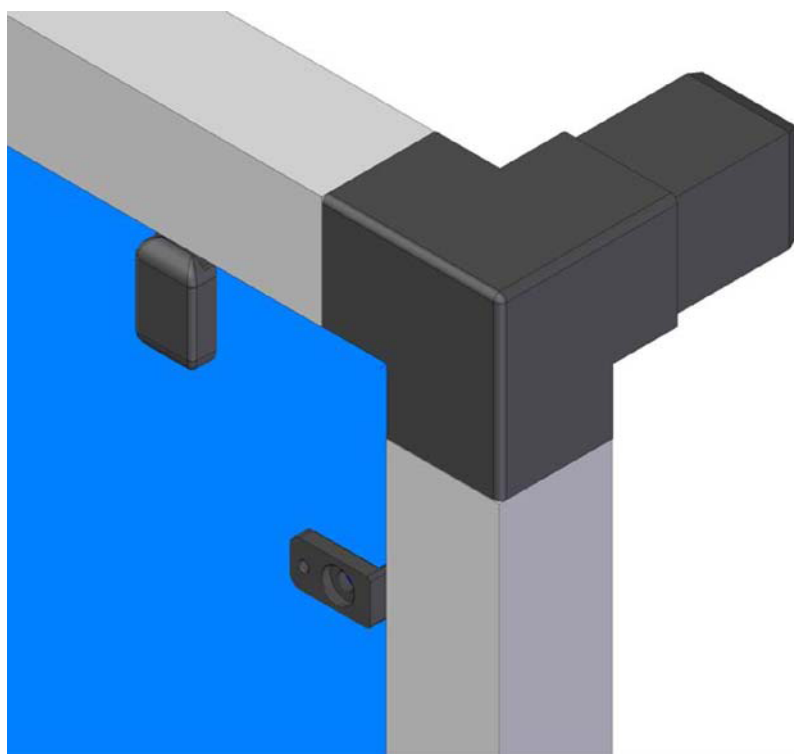
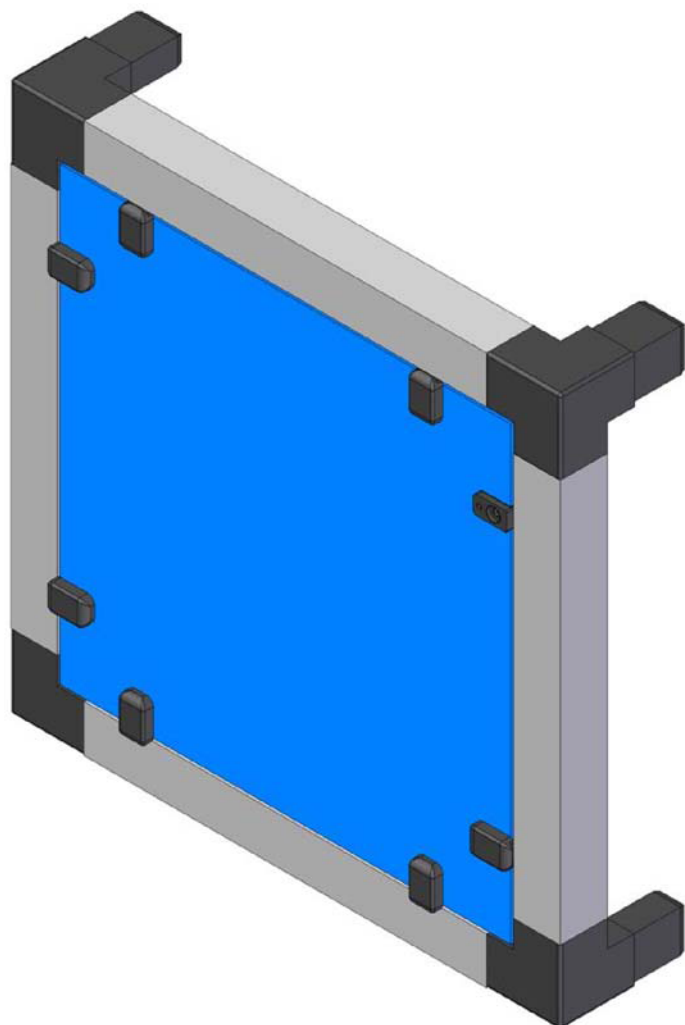
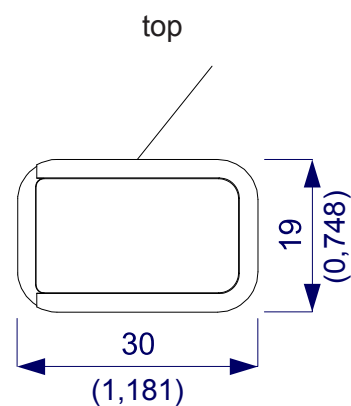
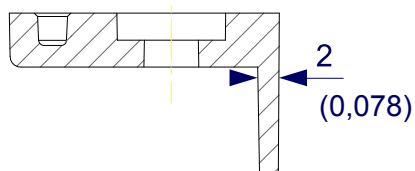


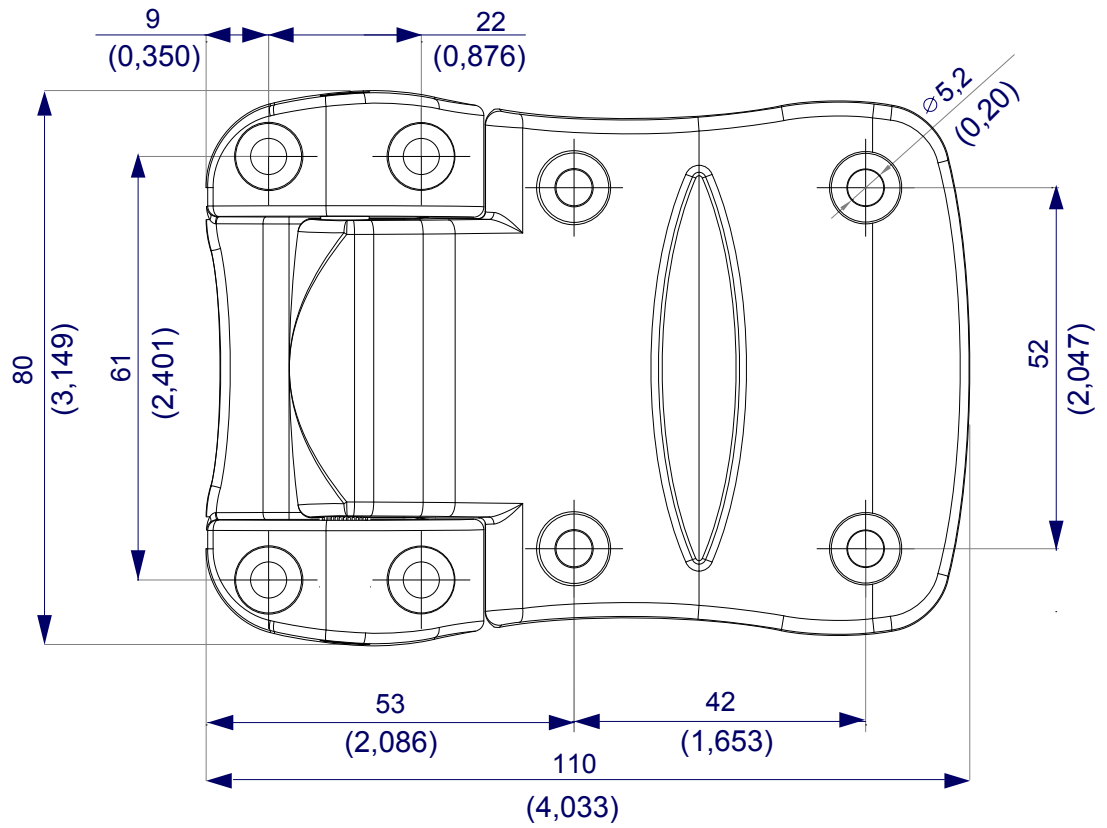
DN 41

Box of 200 pcs.

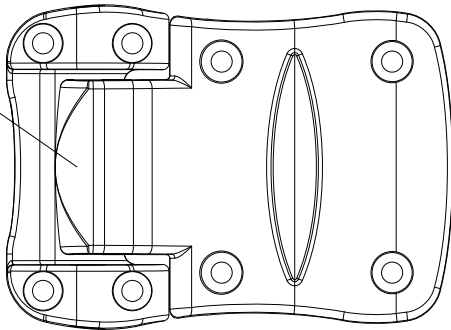


SEZ. A - A



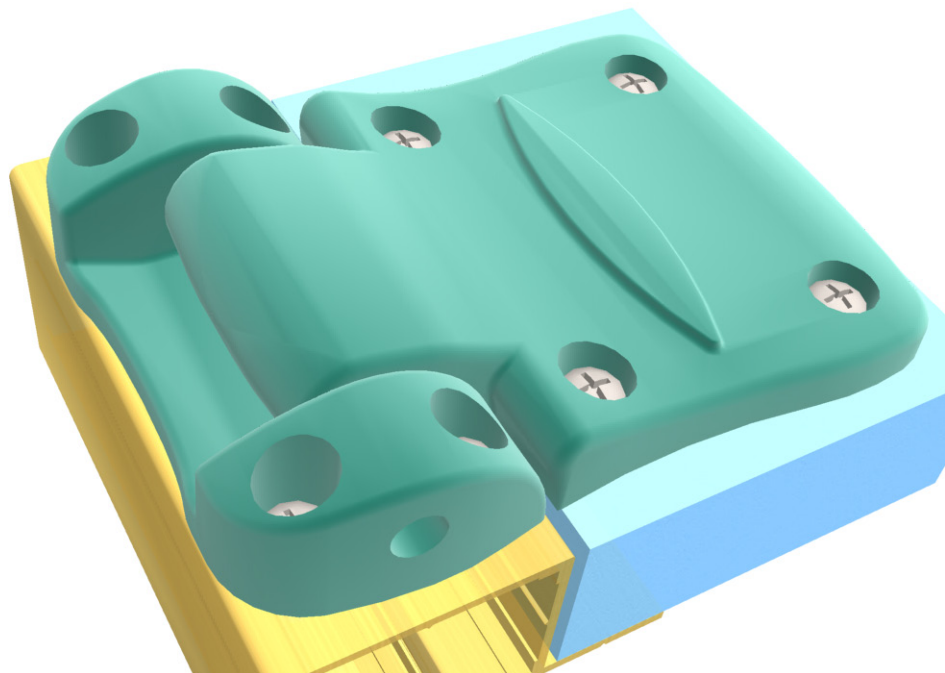


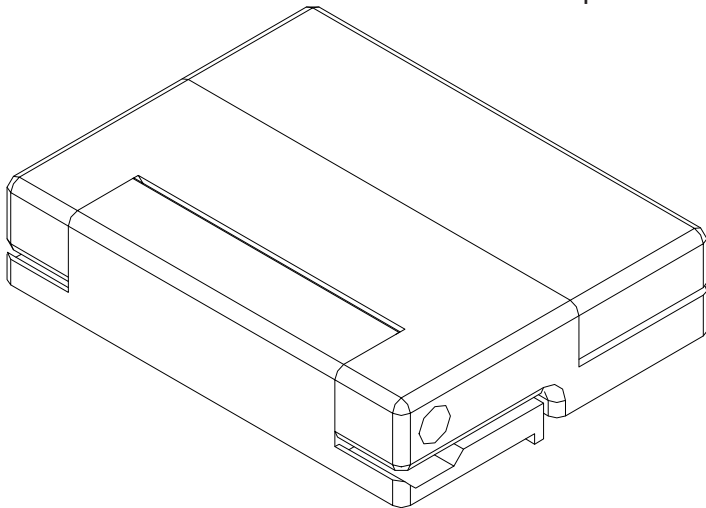
Adjustable part
(up and down)



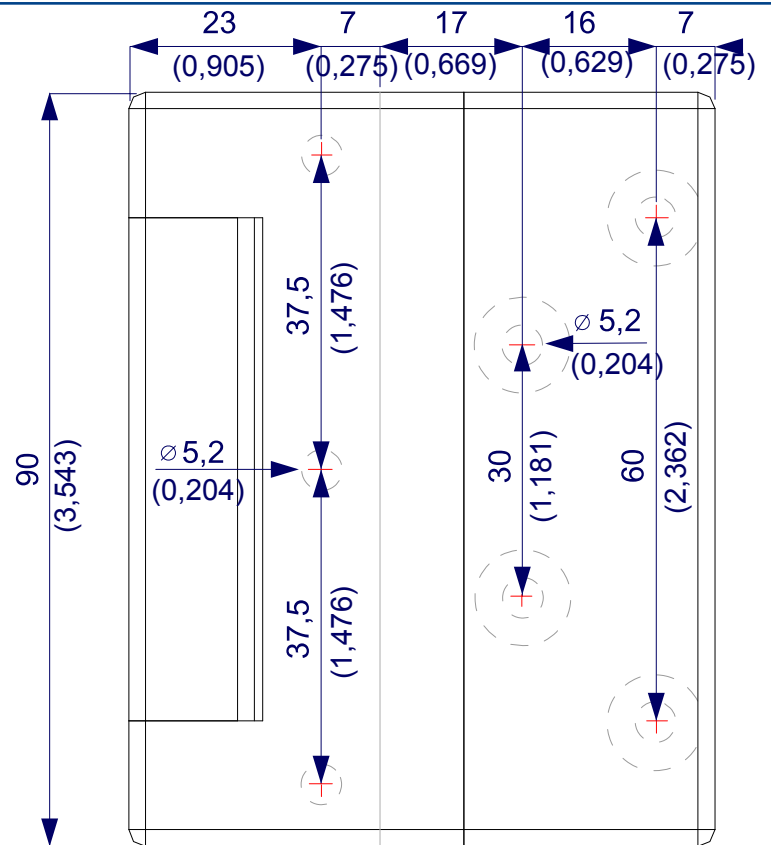
A 80x110
A 80x110-O (oval hole)
A 80x110 ADJ (adjustable)

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



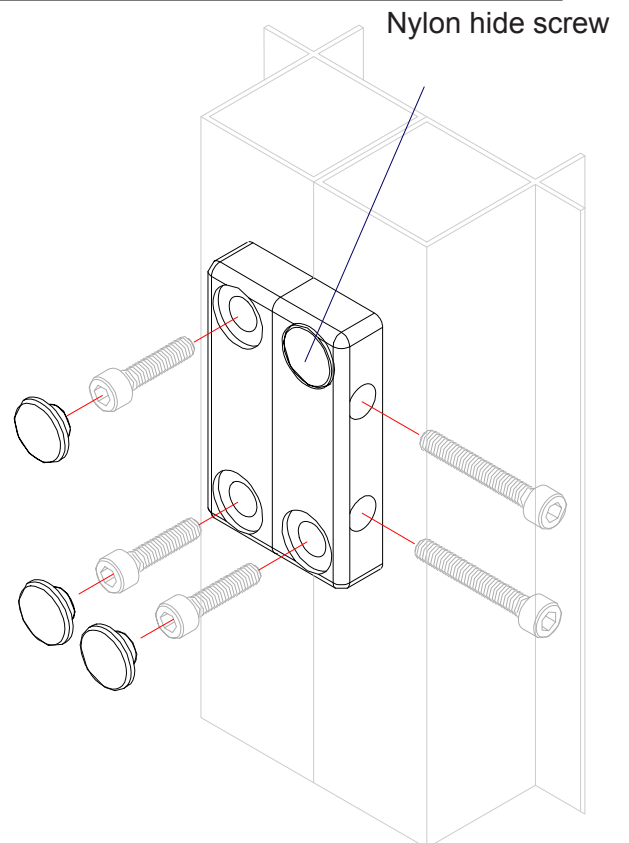
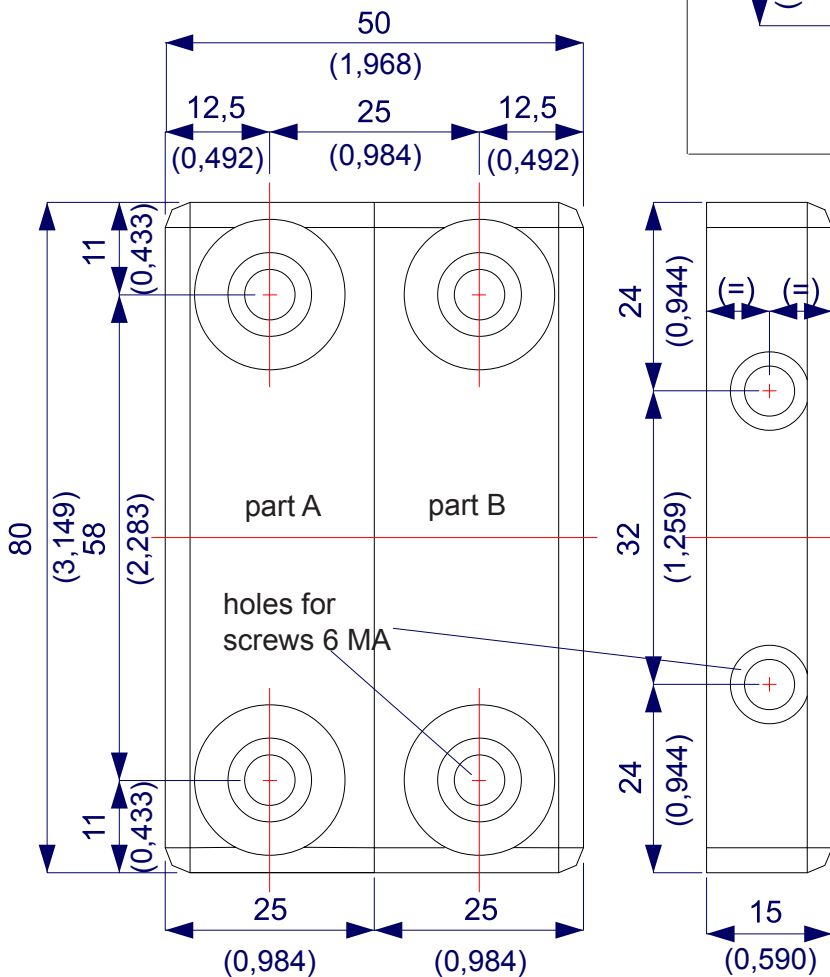
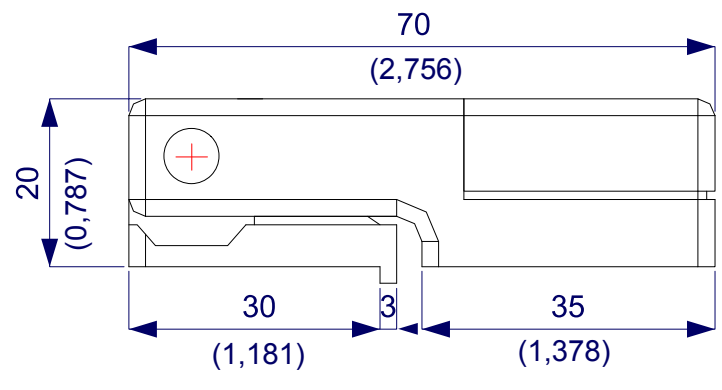


N 90x70
Nylon hinge
Box of 75 pcs.

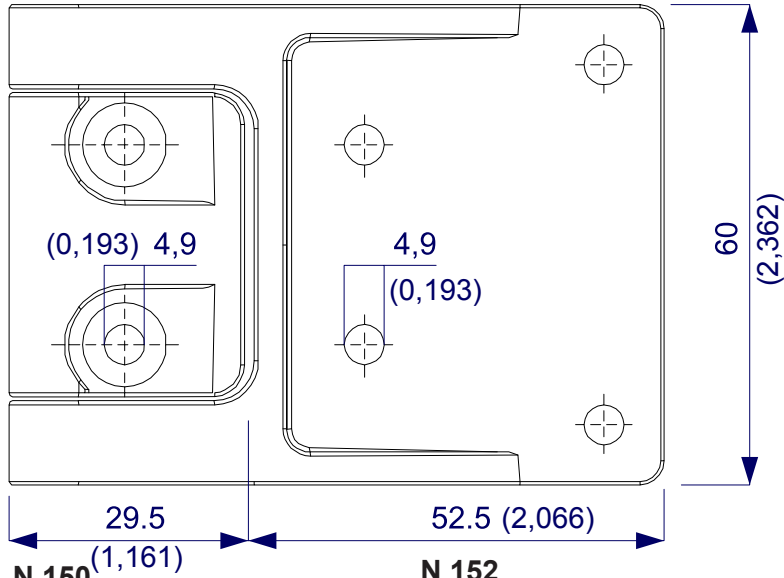


ACB 80x50

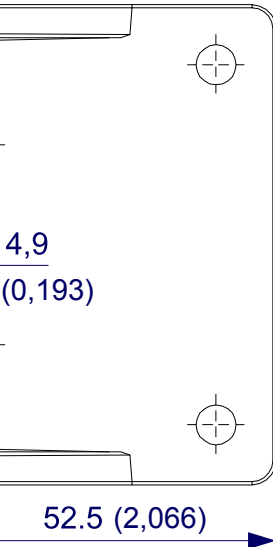
Aluminium connecting bracket
for unit section complete
with all screws
Box of 50 pcs.



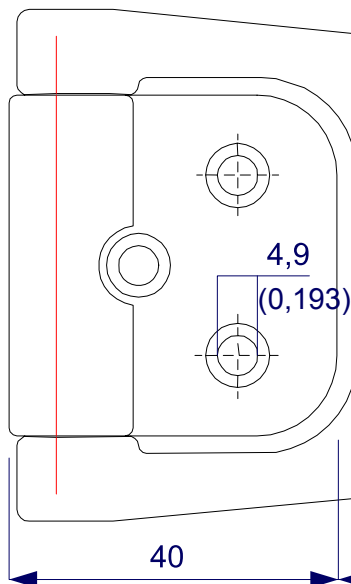
A 151 Aluminium hinge
Box of 100 pcs.



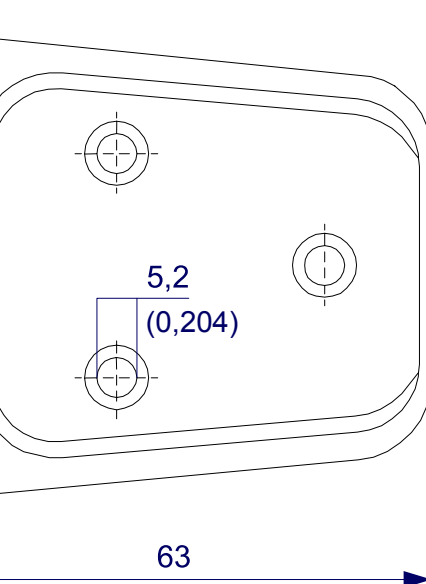
N 153 Nylon hinge
Box of 100 pcs.



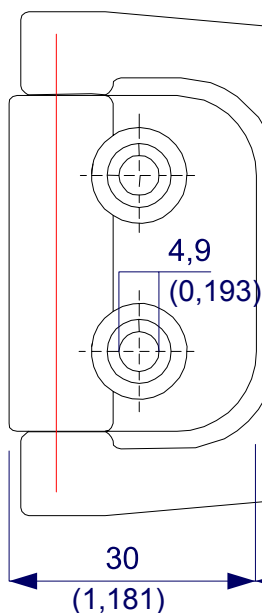
N 150
Nylon hinge with
oval hole; box of 50 pcs.



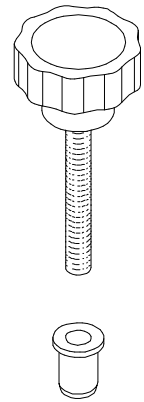
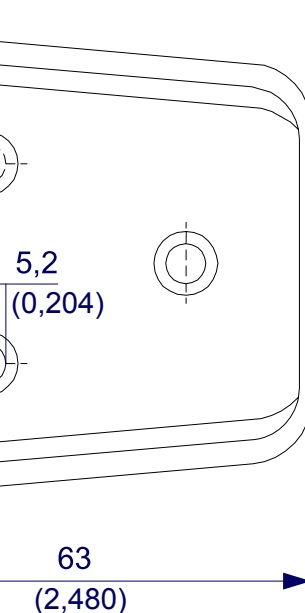
N 152
Nylon hinge with
normal hole; box of 50 pcs.



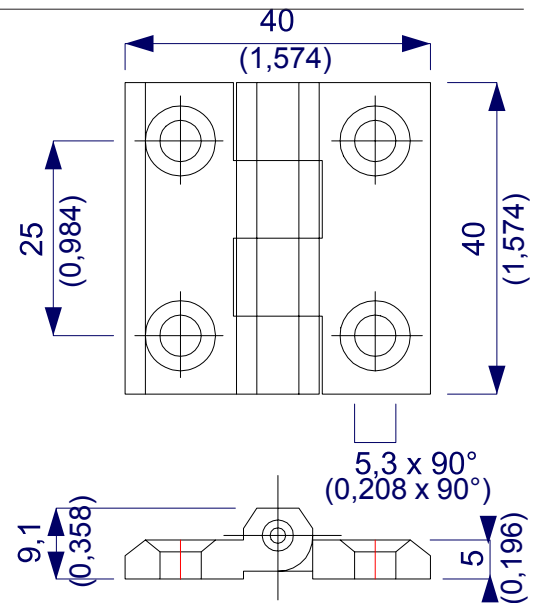
N 149 (1,574)
Nylon hinge with
oval hole; box of 50 pcs.



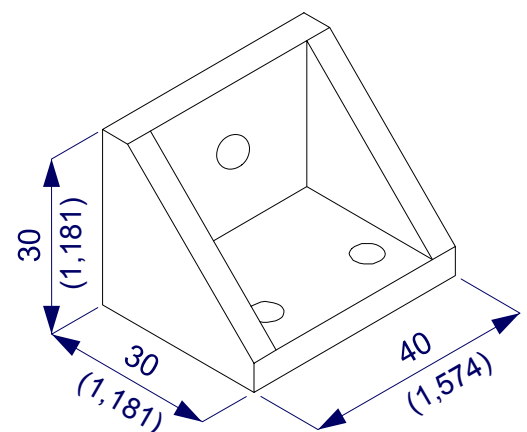
N 148 (2,480)
Nylon hinge with
round hole; box of 50 pcs.



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

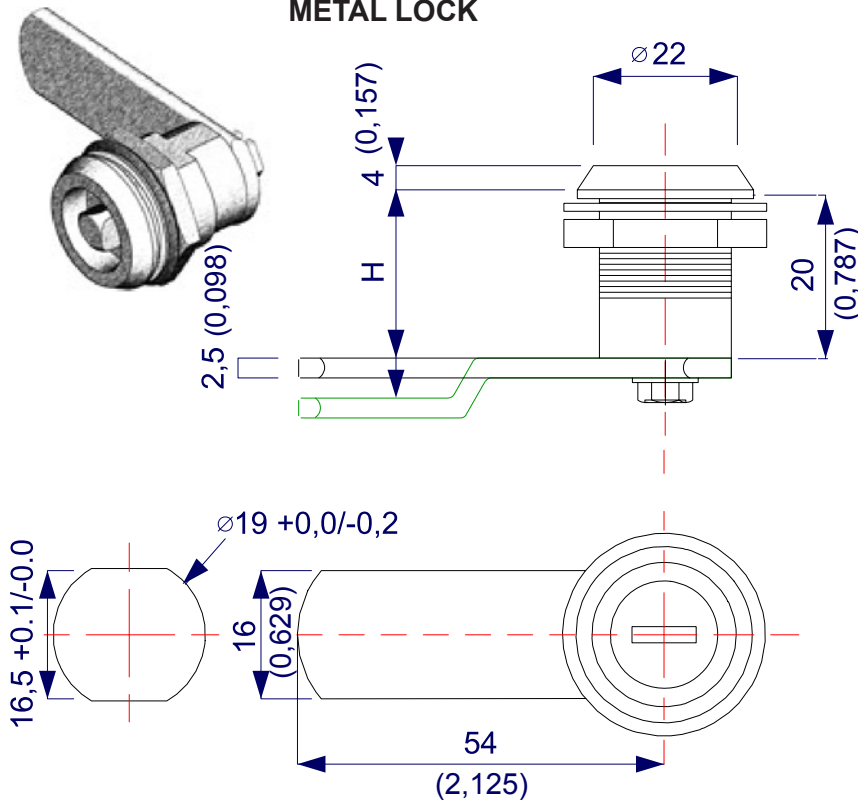


N 40 x 40
Nylon hinge
Box of 100 pcs.



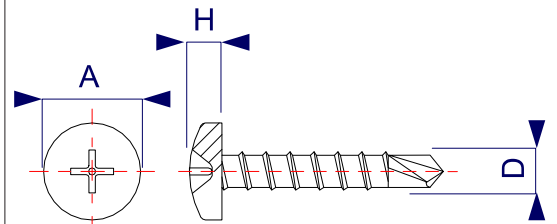
N 860
Connecting bracket
for machine section.
Box of 100 pcs.

METAL LOCK

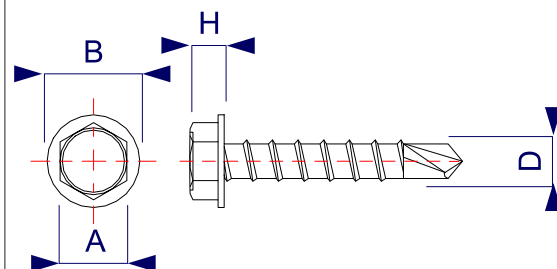


SZ 60/18-20
SZ 60/25
Box of 200 pcs.

SELF-DRILLING SCREWS

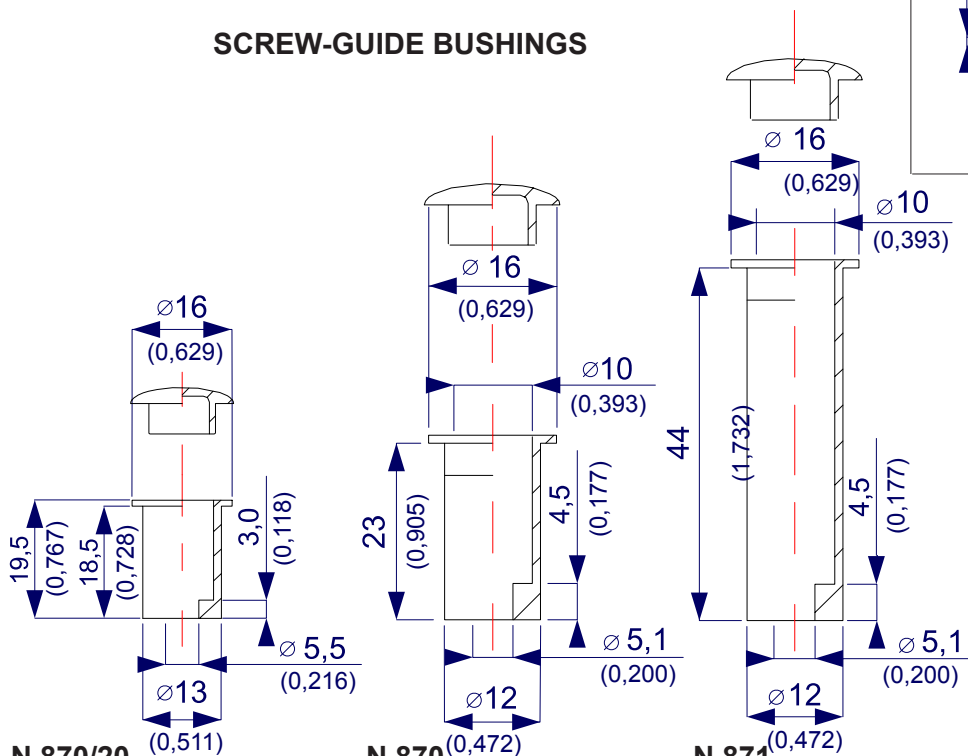


TC PH
Self-drilling screws
(different dimensions available)
Cross head (DIN 7504-M)
Box of 1000 pcs.



TE FR
Self-drilling screws
(different dimensions available)
Hexagonal head (DIN 7504-K)
Box of 1000 pcs.

SCREW-GUIDE BUSHINGS

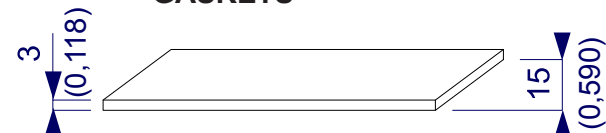


N 870/20
For panel
thickness 20 mm
Box of 2000 pcs.

N 870
For panel
thickness 25 mm
Box of 2000 pcs.

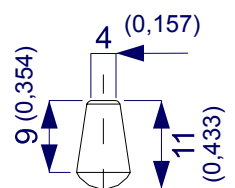
N 871
For panel thickness
45 and 50 mm
Box of 1000 pcs.

GASKETS

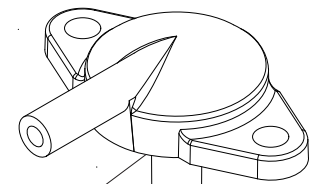


GPL 15x3
(different dimension are
available on request)
Polyethylene gasket
adesive in one side
Box of 600 mt

CAP SCREW COVER

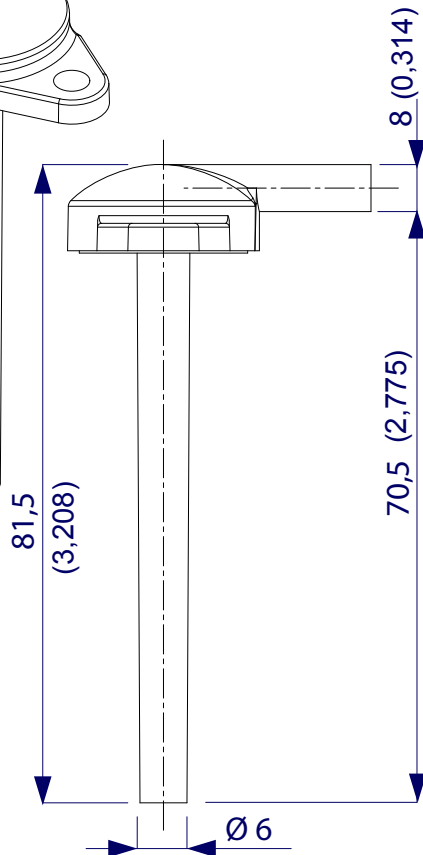


N 880
(different dimension are
available on request)
Plastic safety screw cover.
Bag of 1000 pcs.

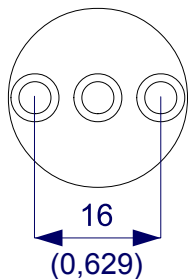
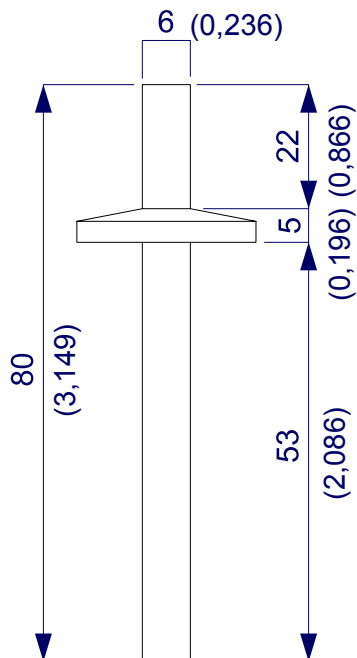
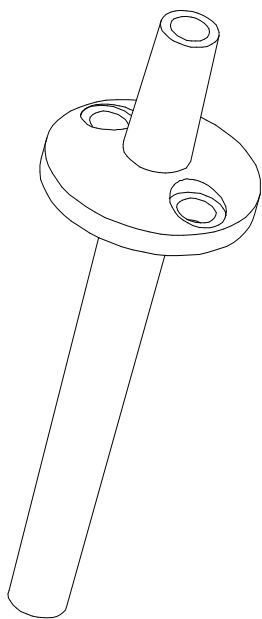


GASKET

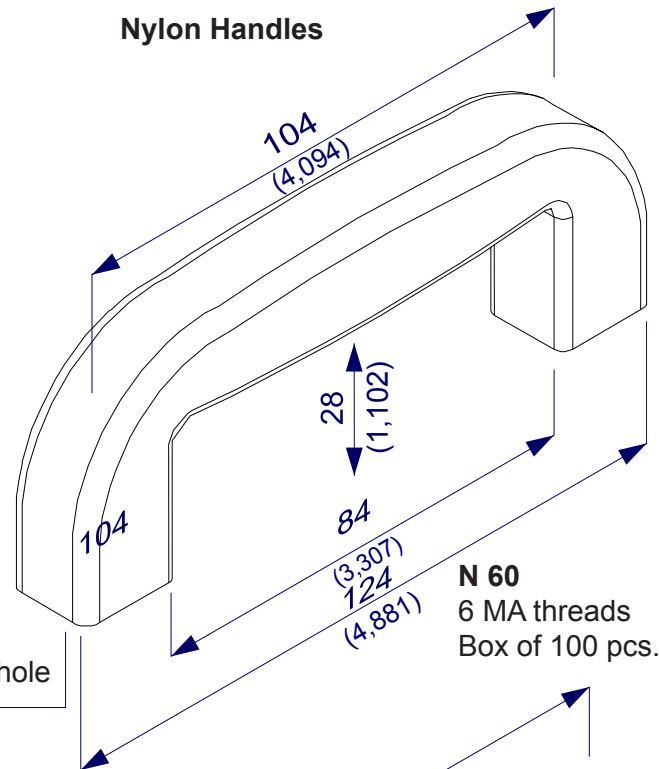
N 910/90
Connection plug
to the pressure
switch
Box of 200 pcs.



N 910
Connection plug
to the pressure switch
Box of 300 pcs..

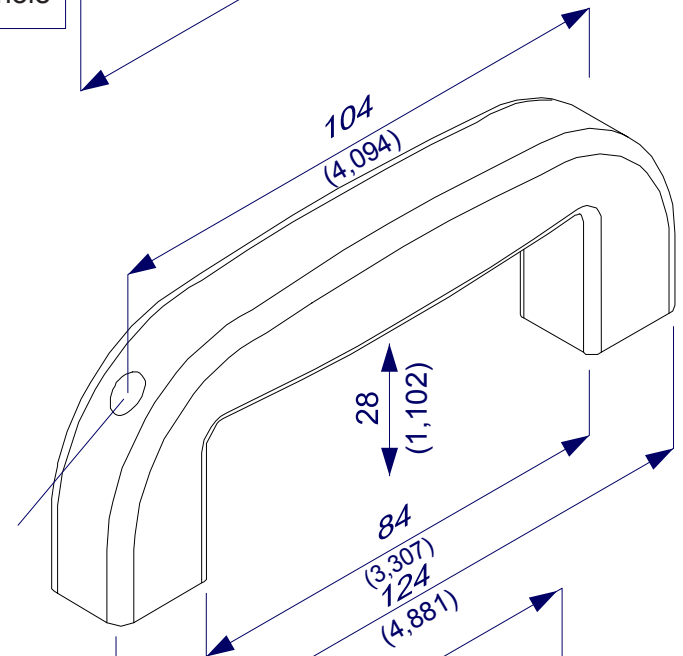


Nylon Handles



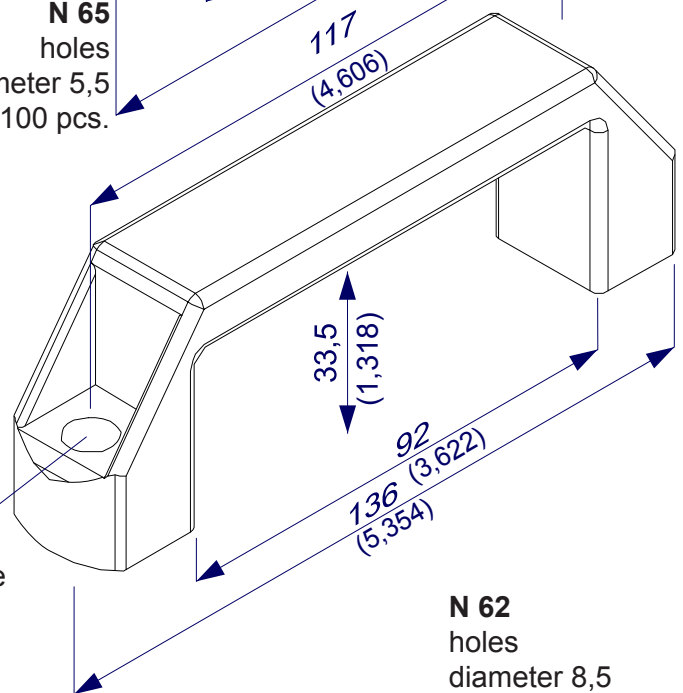
N 60
6 MA threads
Box of 100 pcs.

Thread hole
6 MA



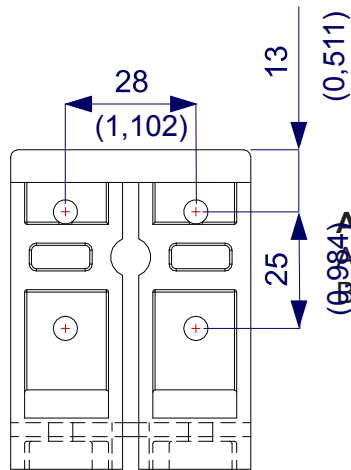
Hole

N 65
holes
diameter 5,5
Box of 100 pcs.

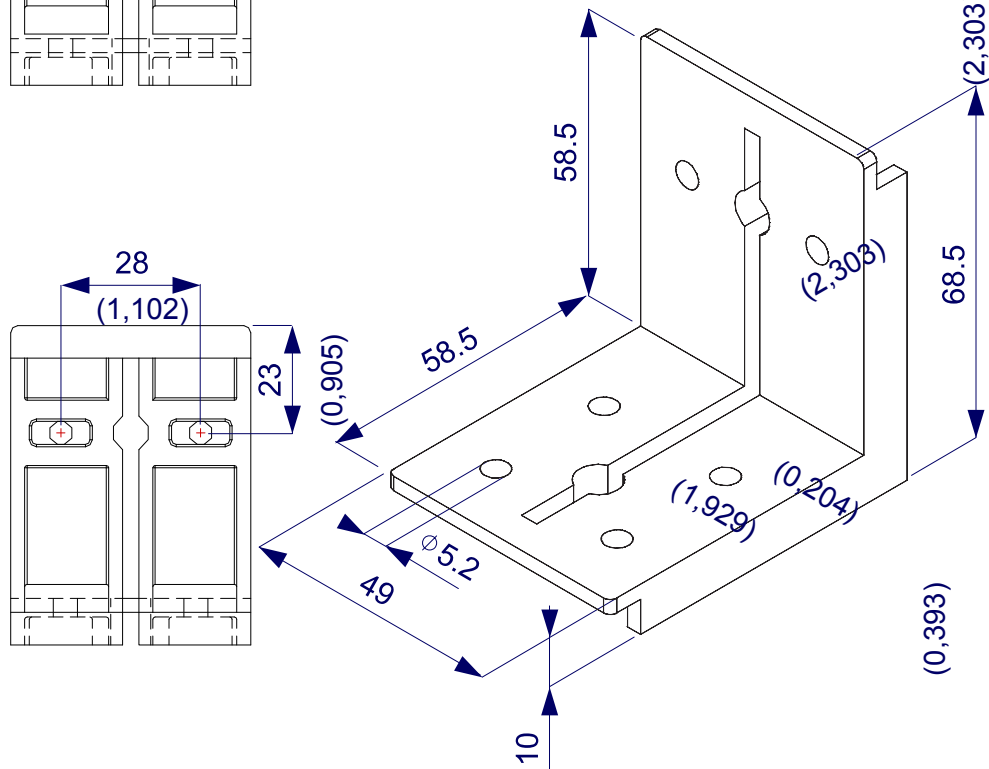


HoleHole

N 62
holes
diameter 8,5
Box of 100 pcs.

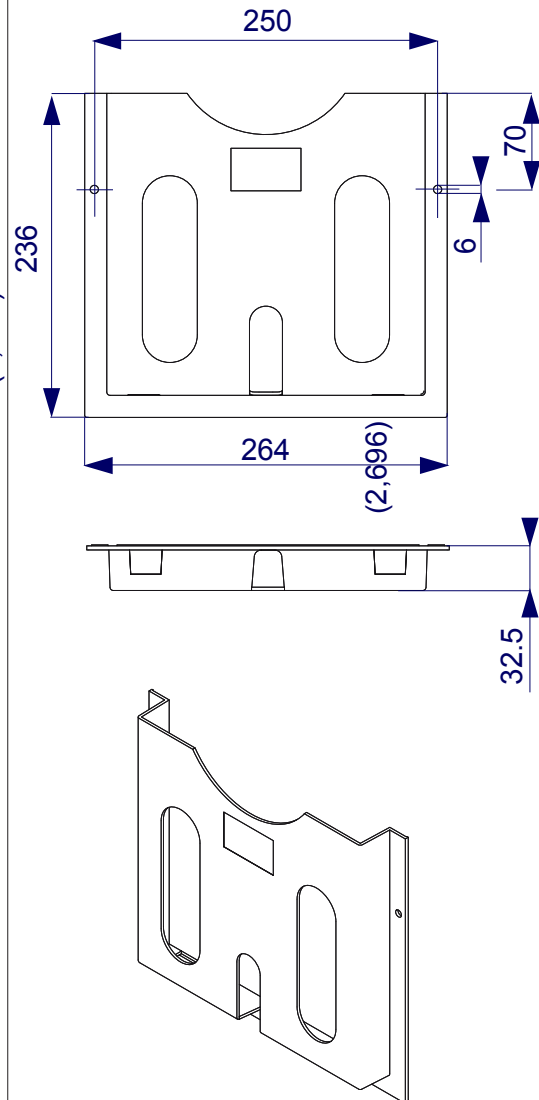


A 860
aluminium connecting bracket
Box of 60 pcs.



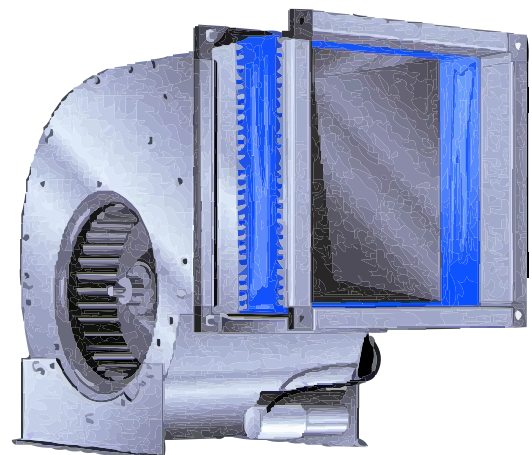
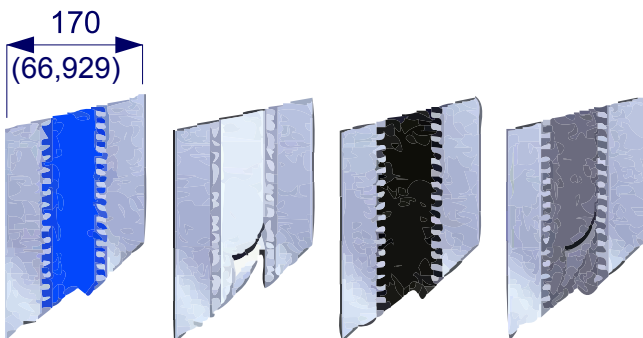
NP001

Plastic pocket for documents
Box of 25 pcs.



VB 170-0.50

Vibration-damping
Box of 25 mt.



Flat and adjustable porthole, nylon and plexiglass**W 19-35**

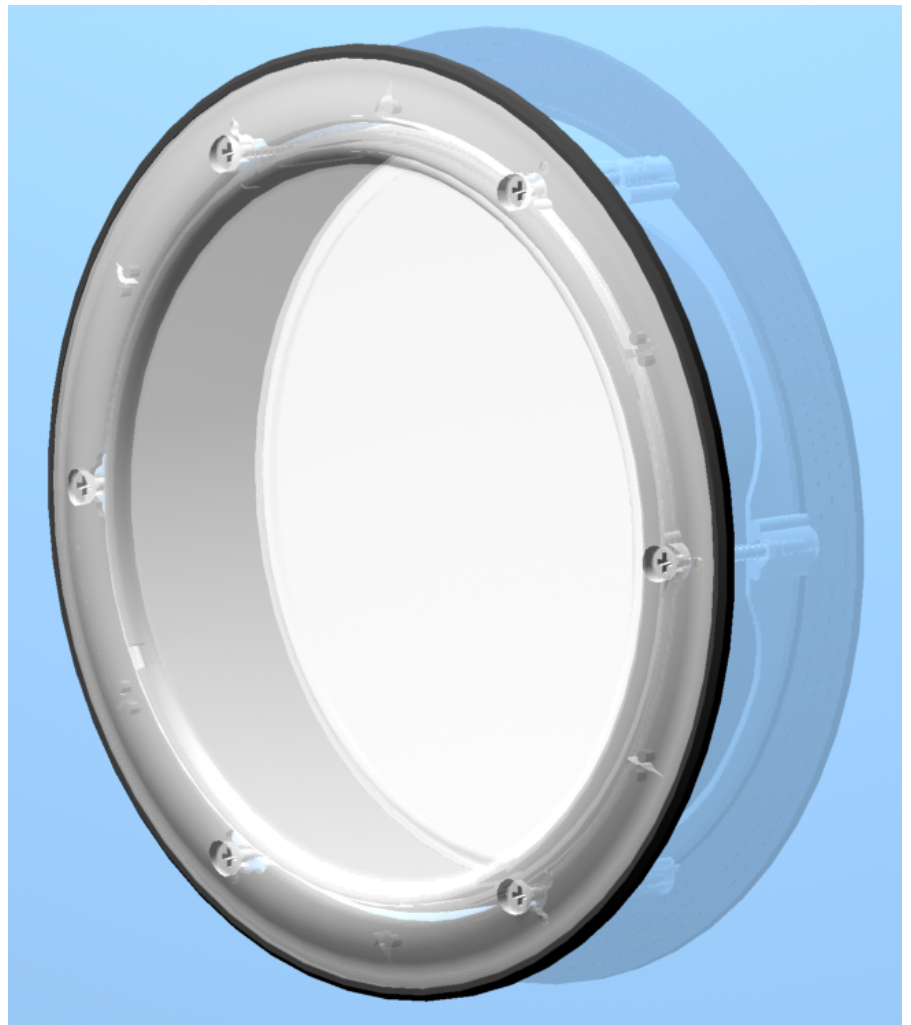
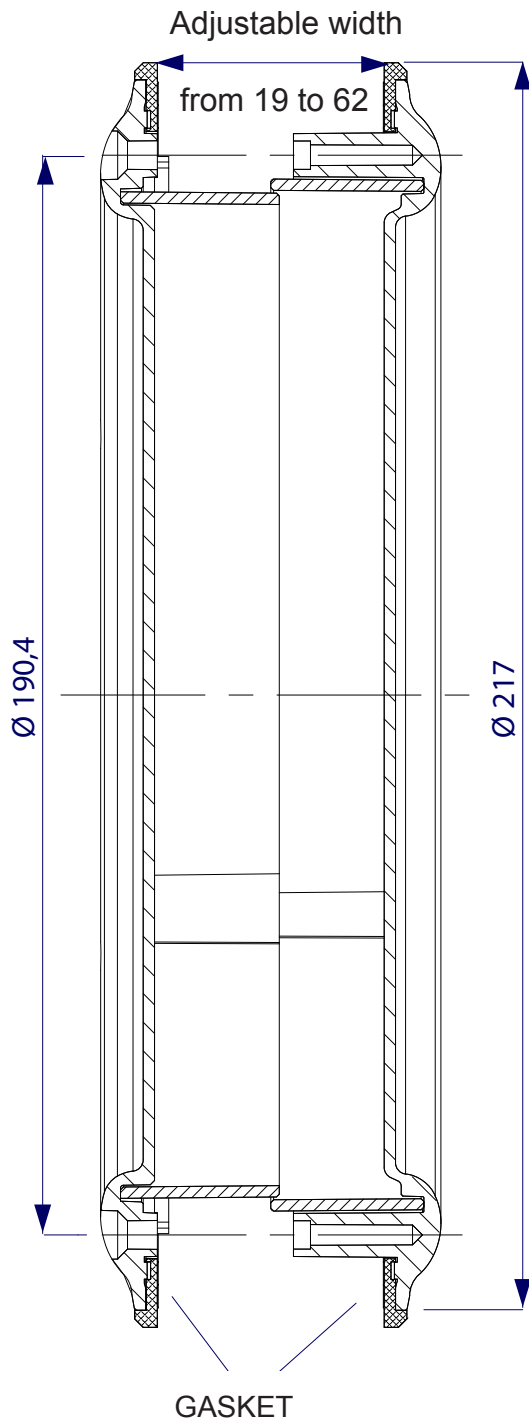
Box of 10 pcs.

W 39-53

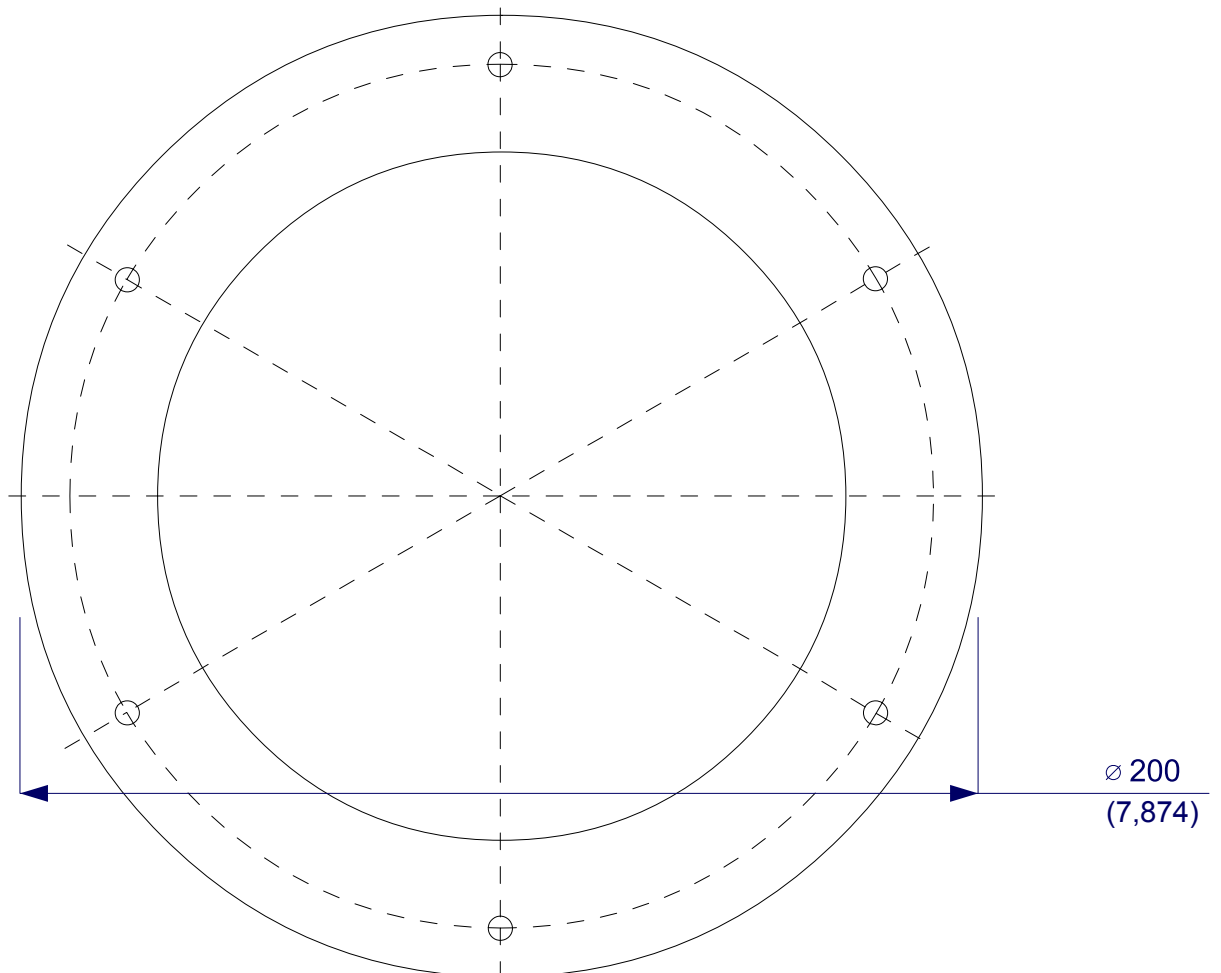
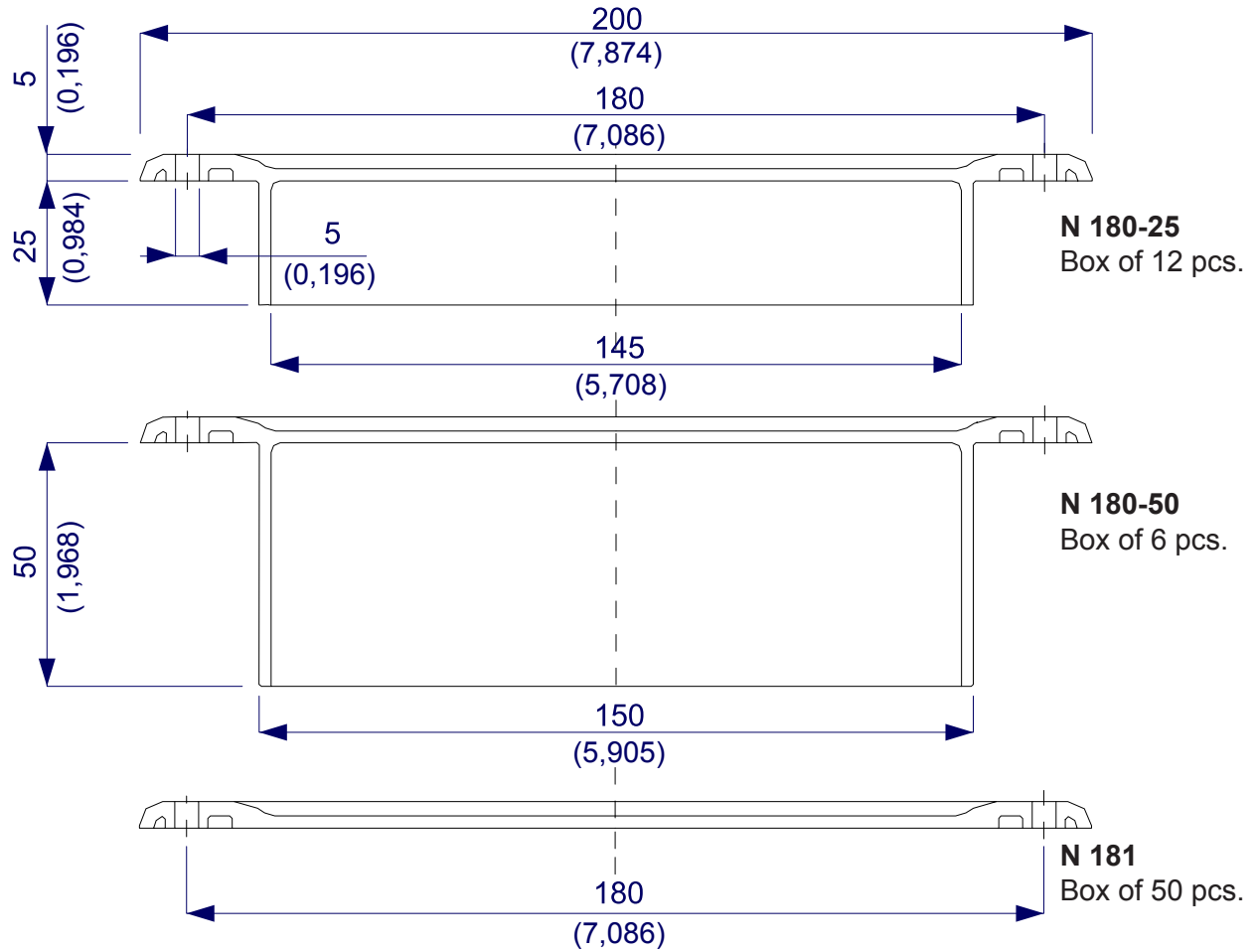
Box of 6 pcs.

W 54-65

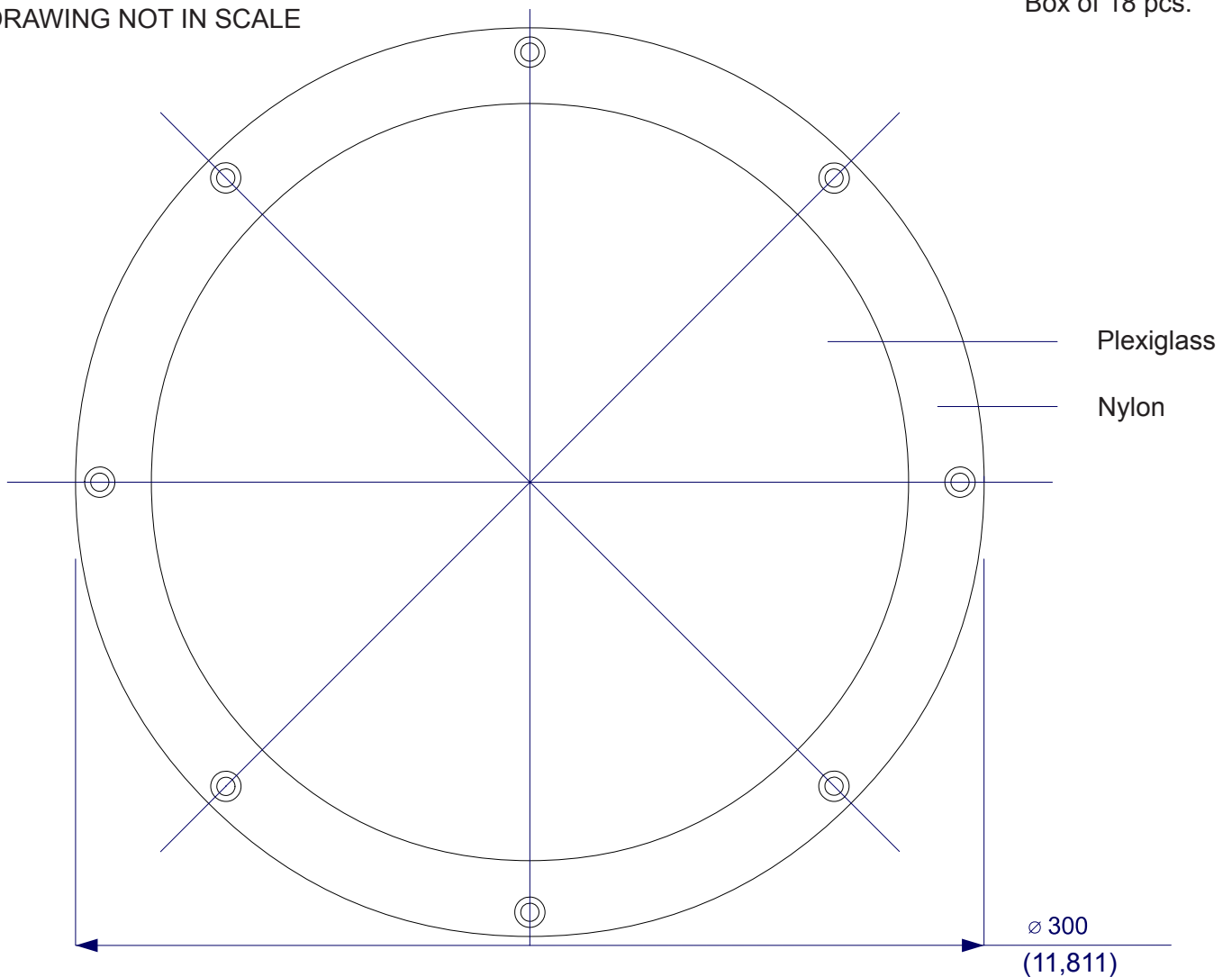
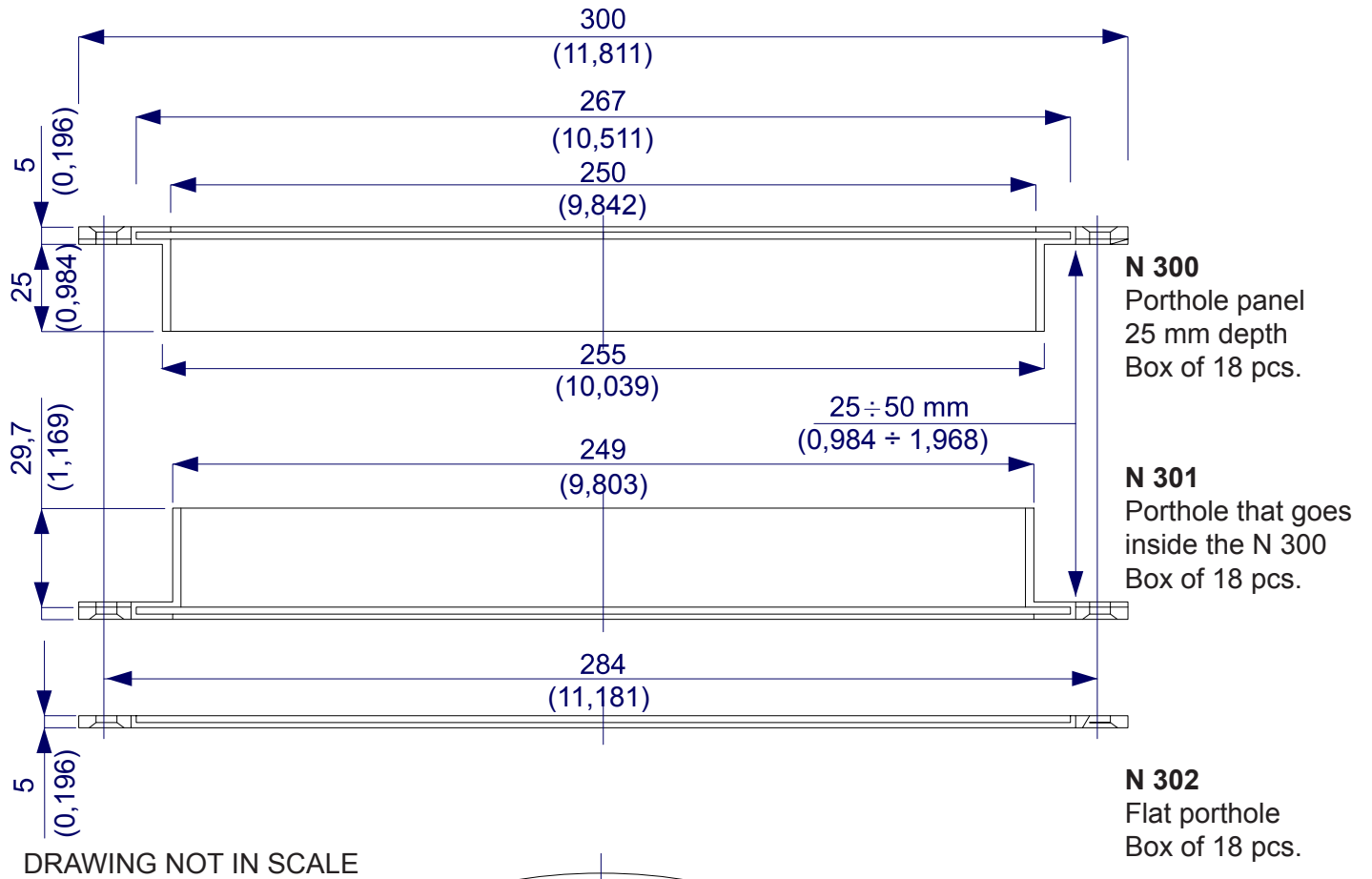
Box of 6 pcs.



Plexiglass porthole with gasket



Flat and adjustable porthole, nylon and plexiglass



This section deals with single and double dampers.

The 100 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 (P 126) are controlled by nylon gears that are spaced out by a nylon spacer (N 830).

This means that the damper's frame (P 125, P128) 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. The profile P 128 is used to assemble double dampers requiring two different airflows.

The dampers can also be assembled with a closed side and an open side.

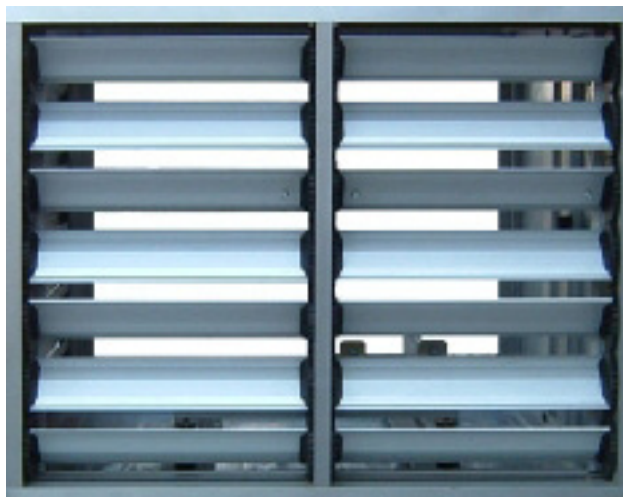
The blades can be controlled by the same pin or two independent pins (P 12 or N 840).

The profile P 128 is also used to give greater rigidity to structures of larger dimensions.

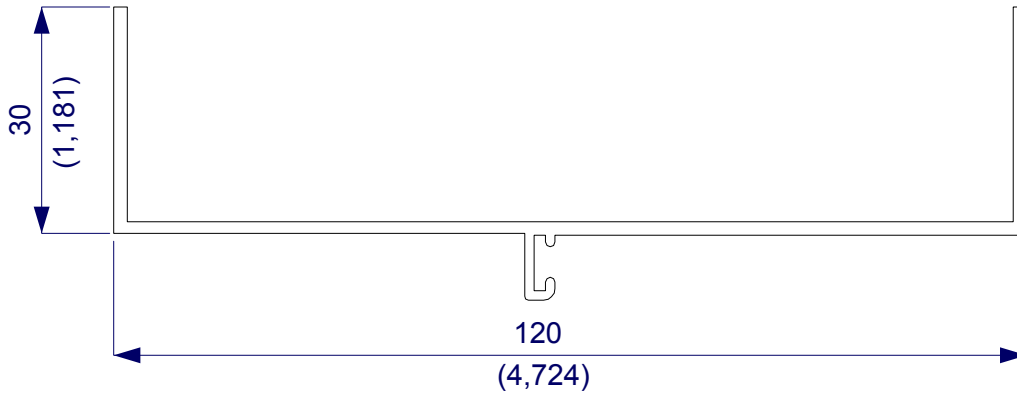
These dampers can be controlled by hand (with handle N 840) or by electrical motor with aluminium pin (P 12).

The damper's tightness is enhanced by gaskets (G 63) inserted in the blades and gaskets (G 63 and/or G 65) inserted in the frame.

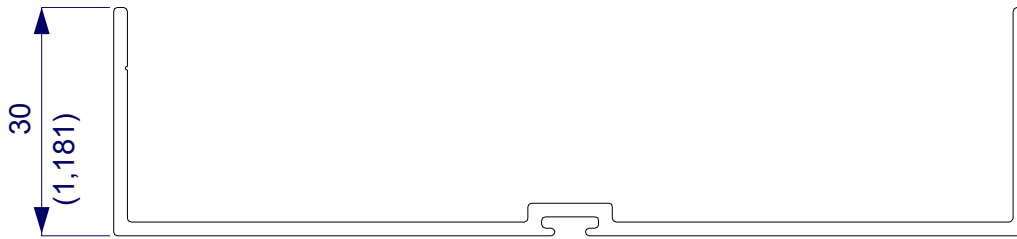
This section contains assembly instruction for the damper together with a table for calculating optimum weight to size ratio for dampers of standard dimensions.



Aluminium profiles for single and double damper



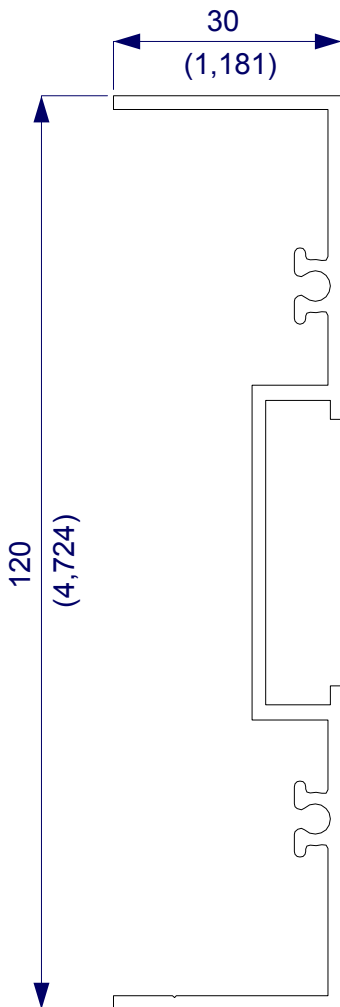
P 127
Weight kg/m 0,861
(lb/ft 0,578)
Bundle of 6 bars



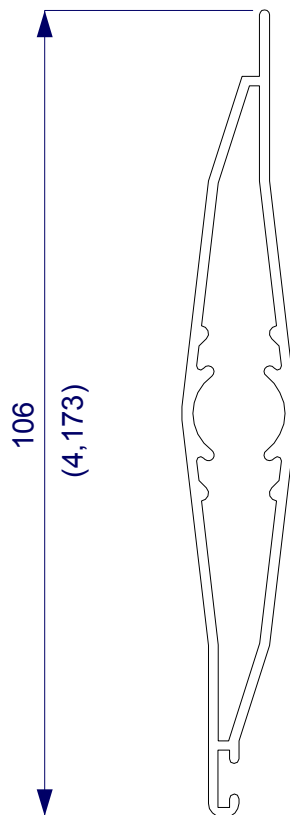
P 12
Weight kg/m 0,309
(lb/ft 0,173)
Bundle of 10 bars



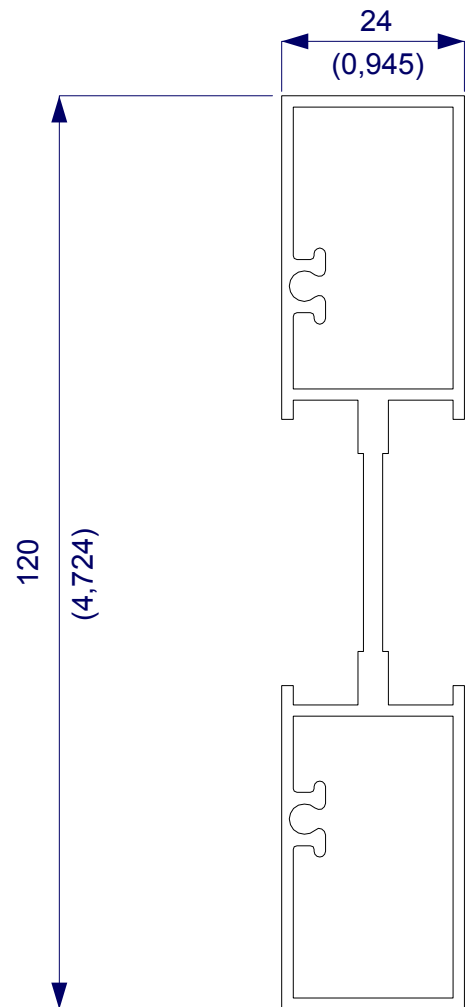
P 118
Weight kg/m 0,847
(lb/ft 0,569)
Bundle of 6 bars



P 125
Weight kg/m 1,041
(lb/ft 0,699)
Bundle of 6 bars

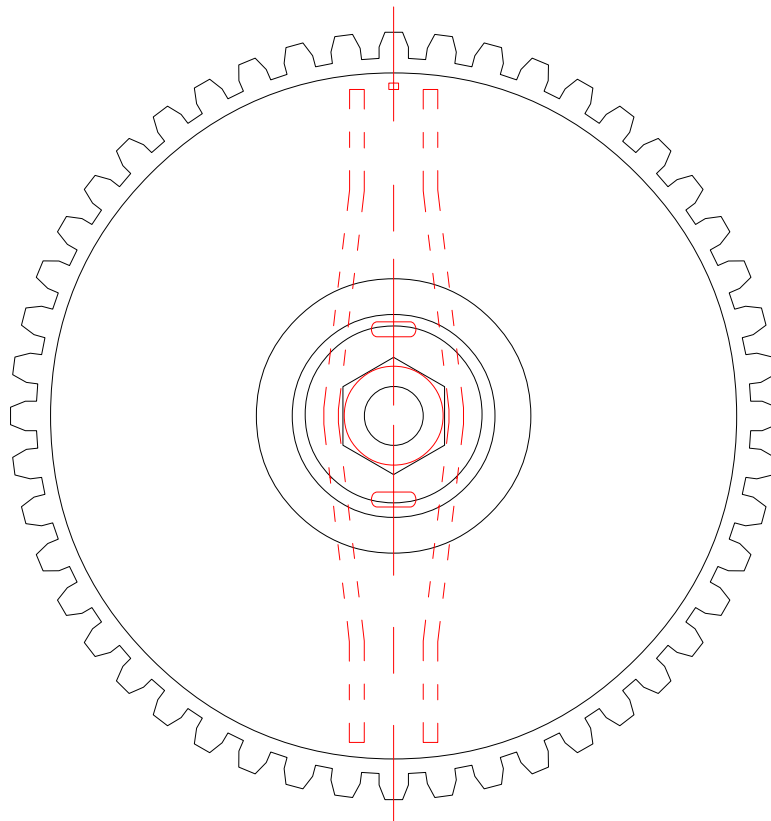
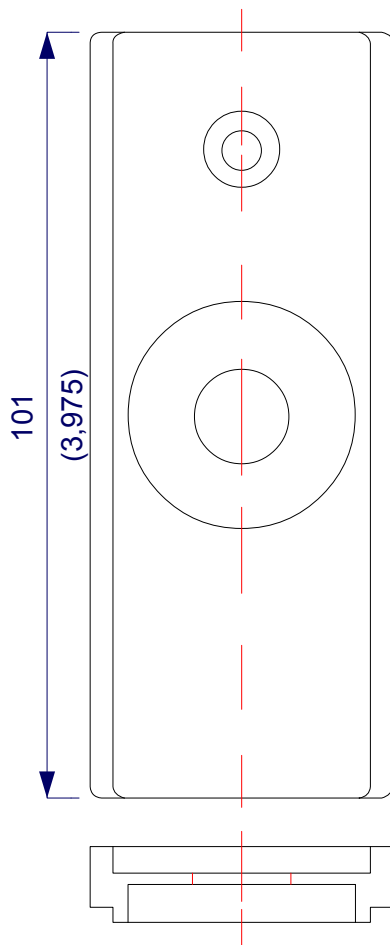


P 126
Weight kg/m 0,842
(lb/ft 0,565)
Bundle of 4 bars

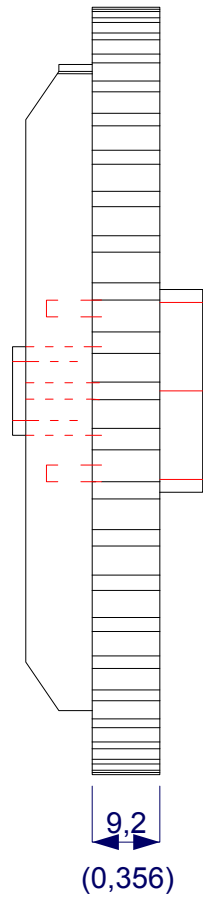


P 128
Weight kg/m 1,539
(lb/ft 1,032)
Bundle of 2 bars

Accessories for single and double damper



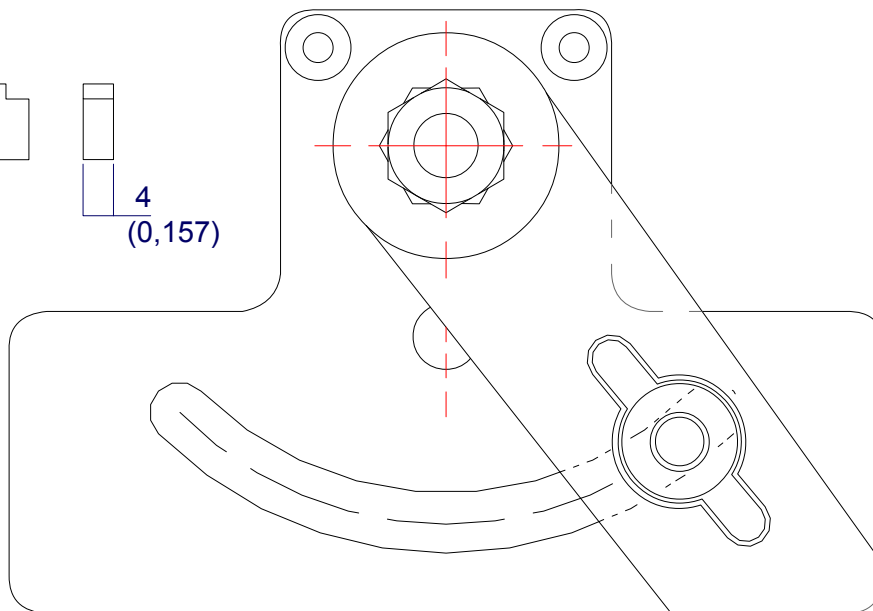
N 830
Box of 240 pcs.



N 850
Box of 1500 pcs.



4
(0,157)



N 840
Box of 50 pcs.

GASKETS:

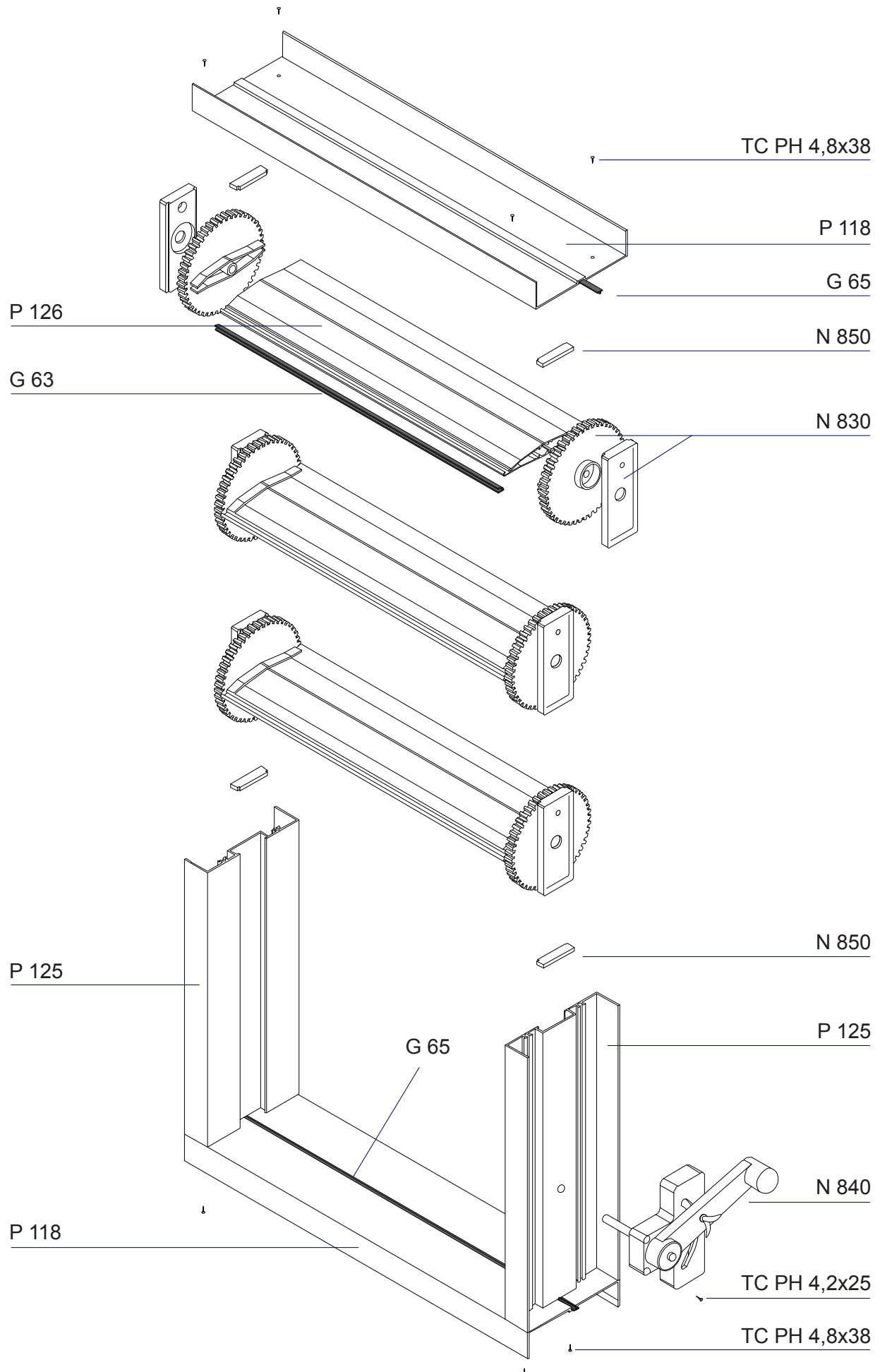
G 63
Box of 400 mt.



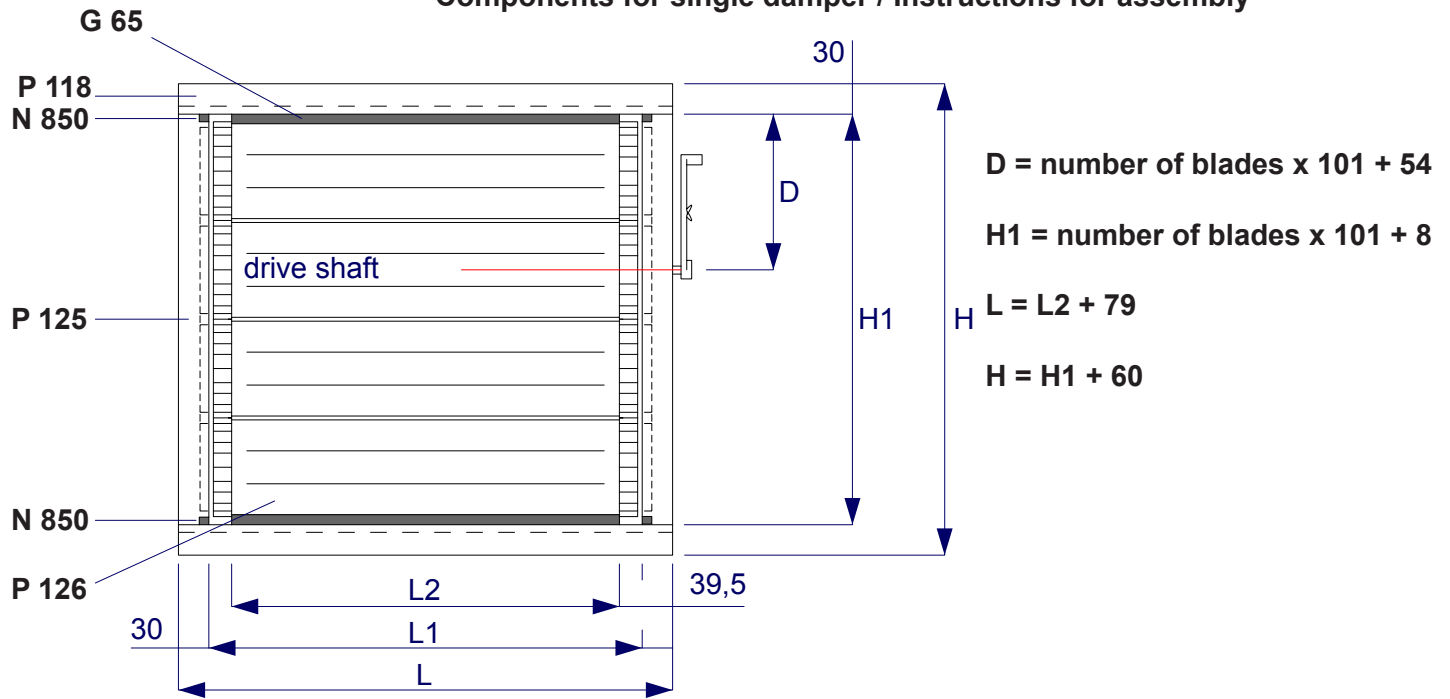
G 65
Box of 400 mt.



3D representation of single damper

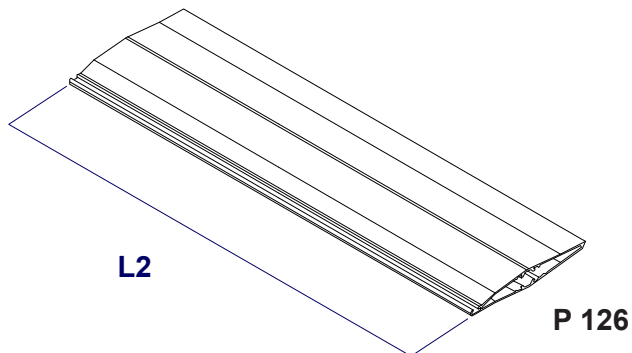


Components for single damper / Instructions for assembly



1

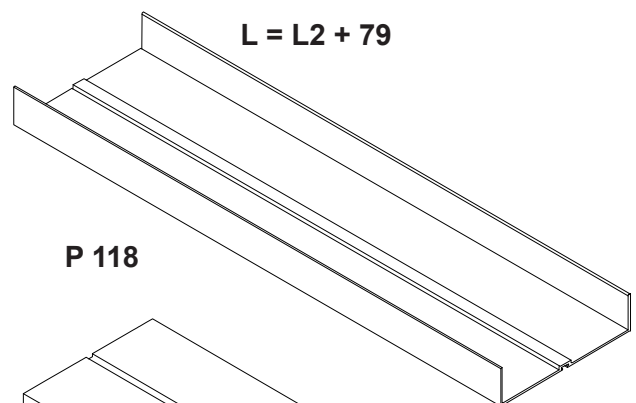
Depending on the size of the ventilation opening,
determine the width **L2** and the number of blades **P 126**



3

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

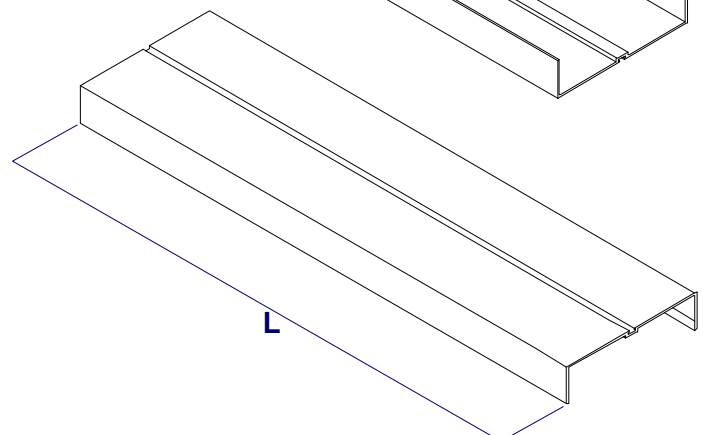
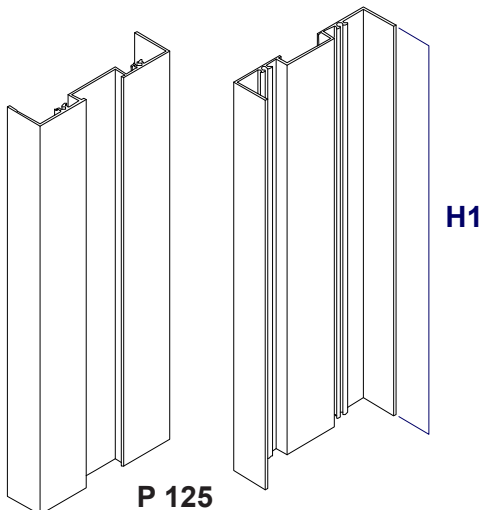
$$L = L2 + 79$$



2

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

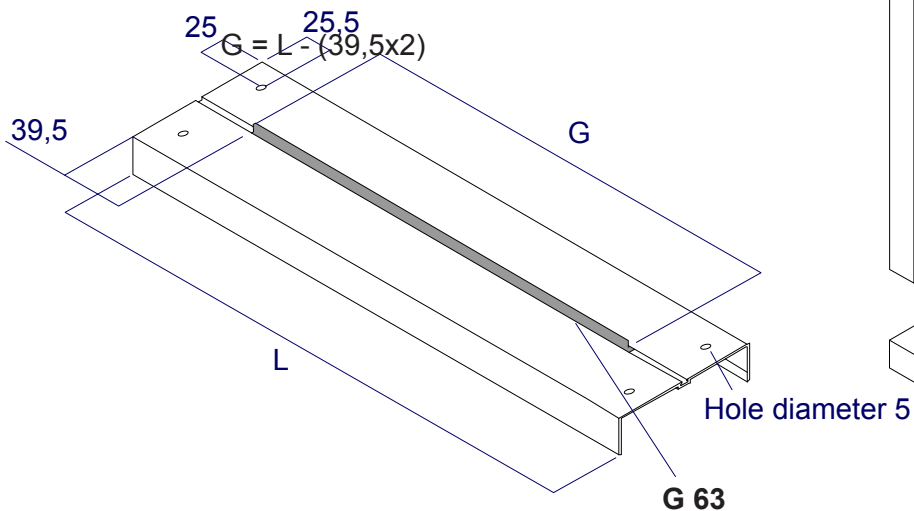
$$H1 = \text{number of slats} \times 101 + 8$$



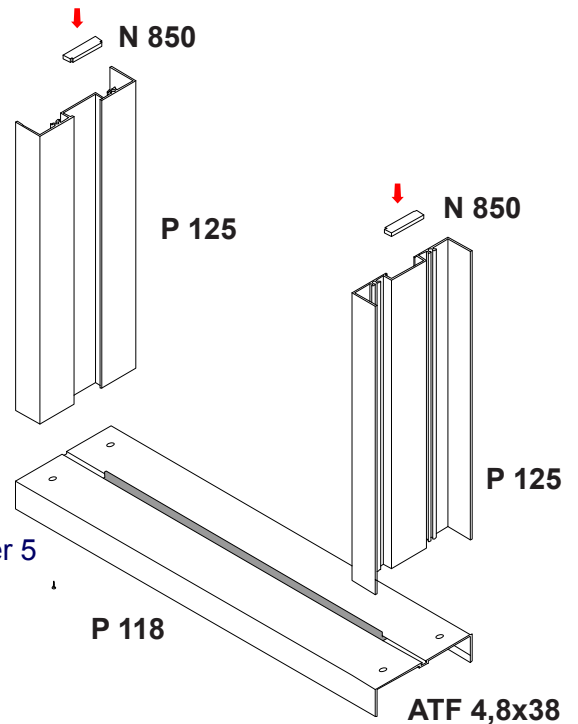
Components for single damper / Instructions for assembly

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

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

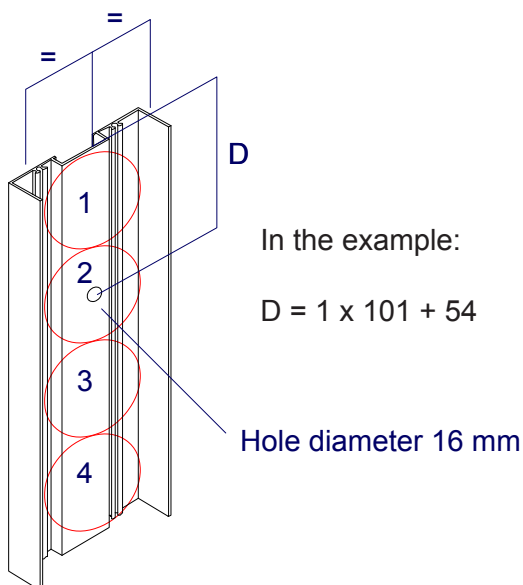


- 6** Using 4 self-tapping screws ATF 4,8x38 fit bottom bar P118 to the 2 uprights P125. Remember to insert shoes N850 4 mm thick.



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

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

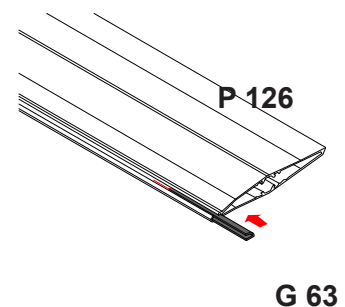


In the example:

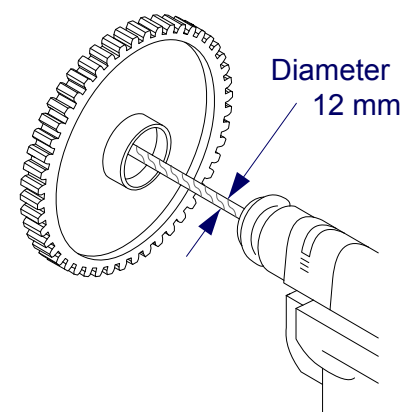
$$D = 1 \times 101 + 54$$

Hole diameter 16 mm

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



- 8** Drill 1 hole diameter 12 mm in one of the gears. N.B.: During assembly, position the gear so that the hole diameter 12 coincides with the hole diameter 16 on upright P125

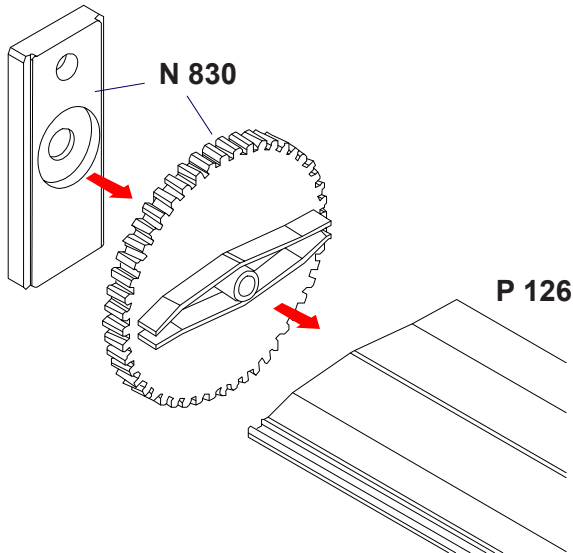


N.B.: It is advisable to keep the control mechanism as central as possible

Components for single damper / Instructions for assembly

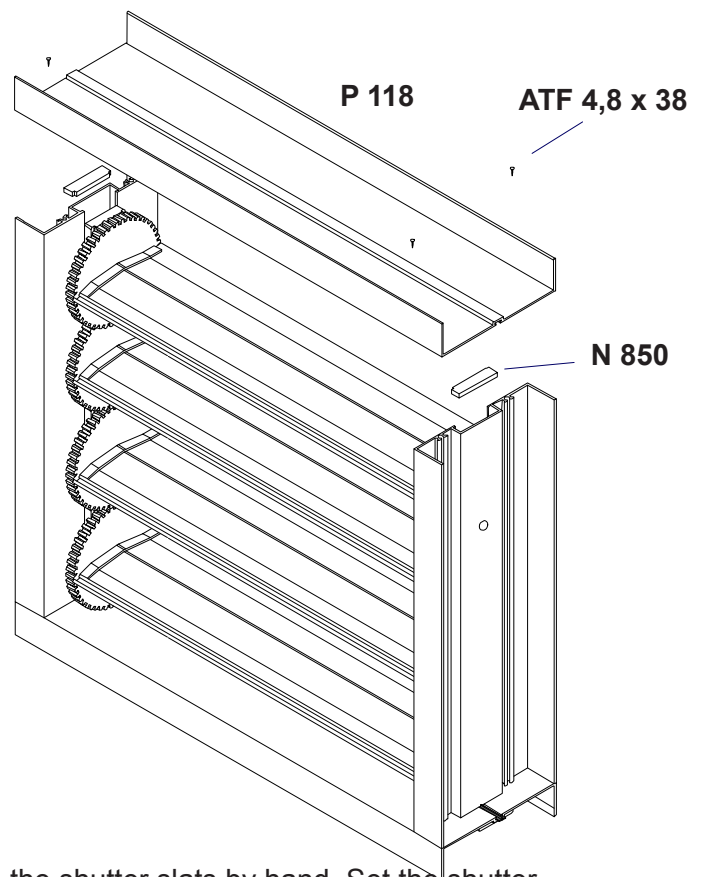
9

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



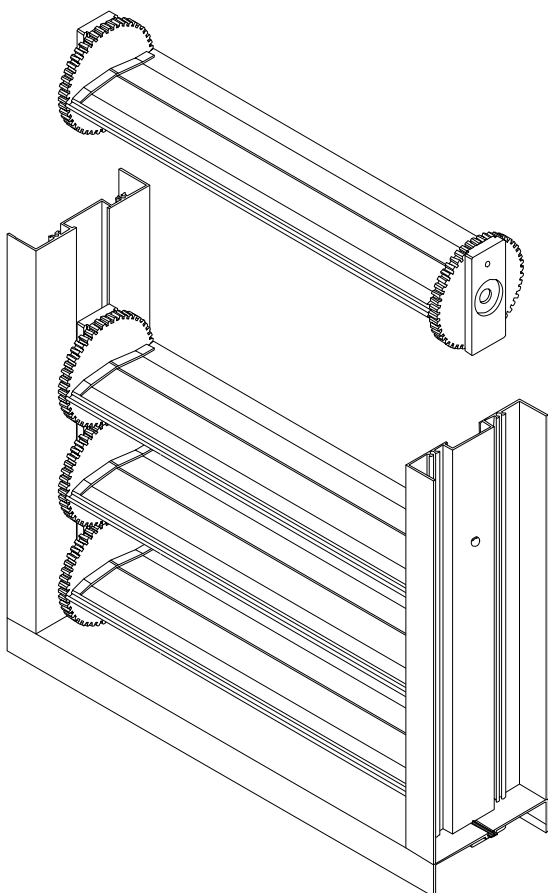
11

Insert shoes **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**.



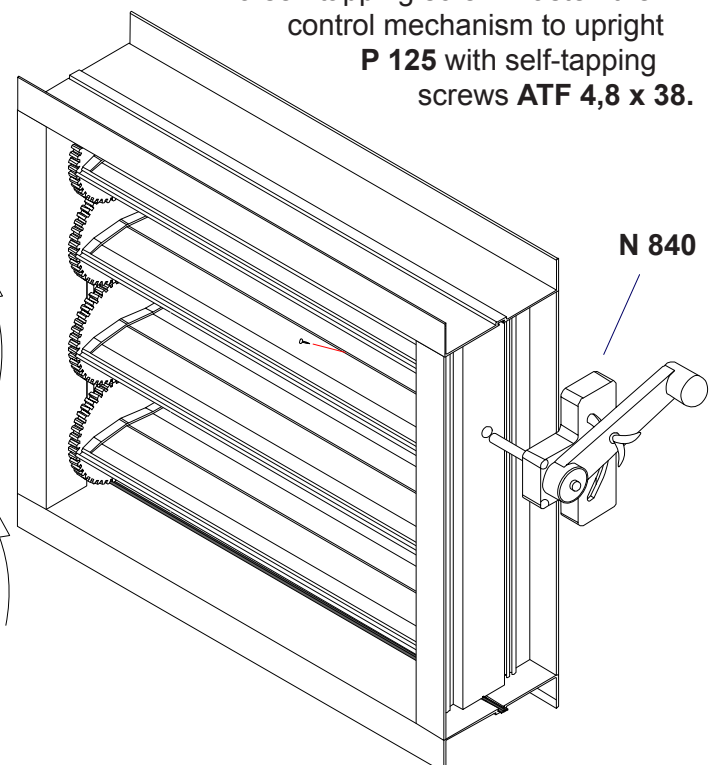
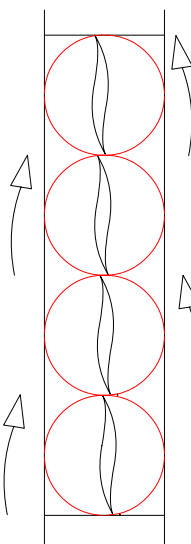
10

Insert the blade-shoe-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.

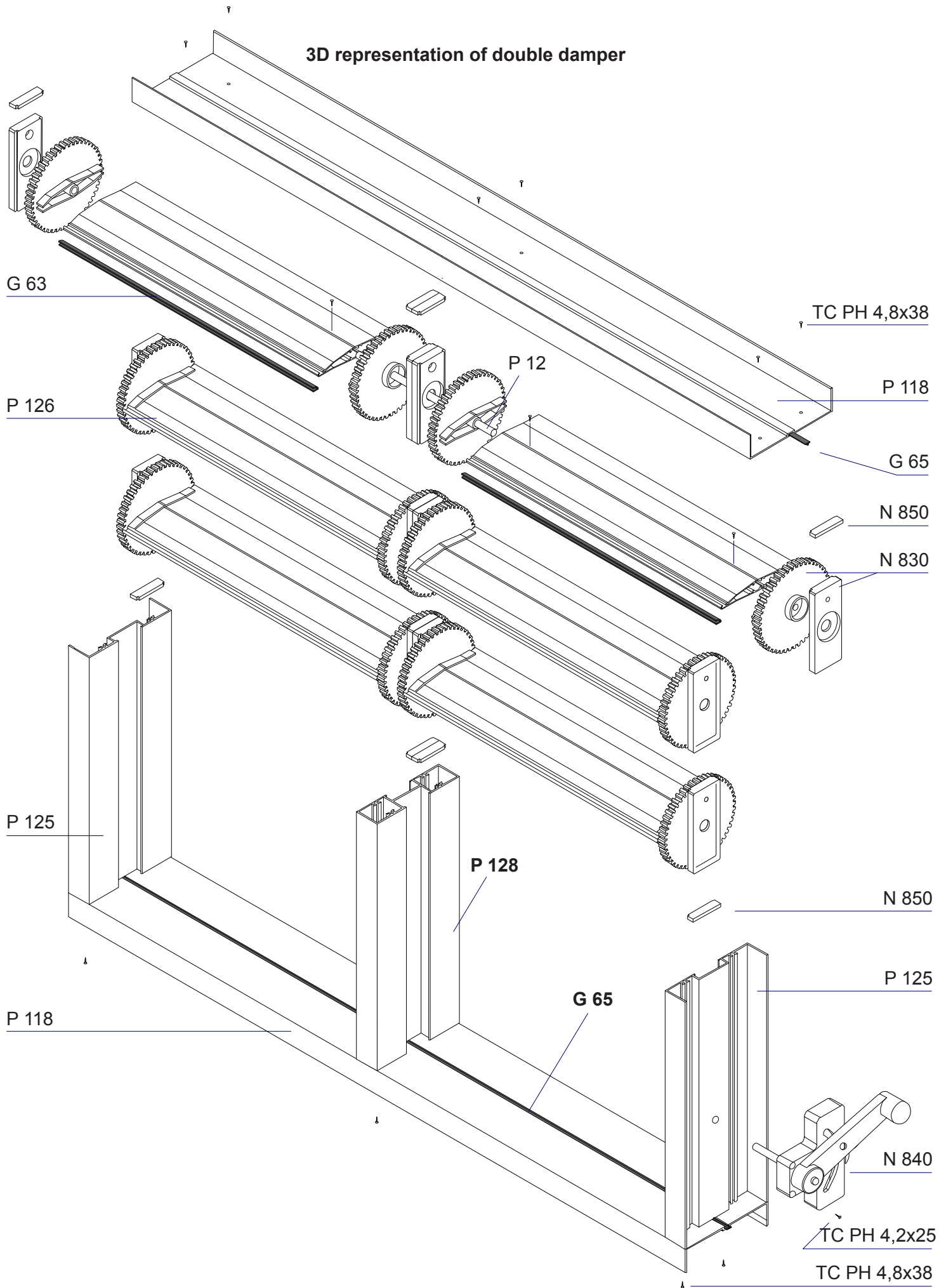


12

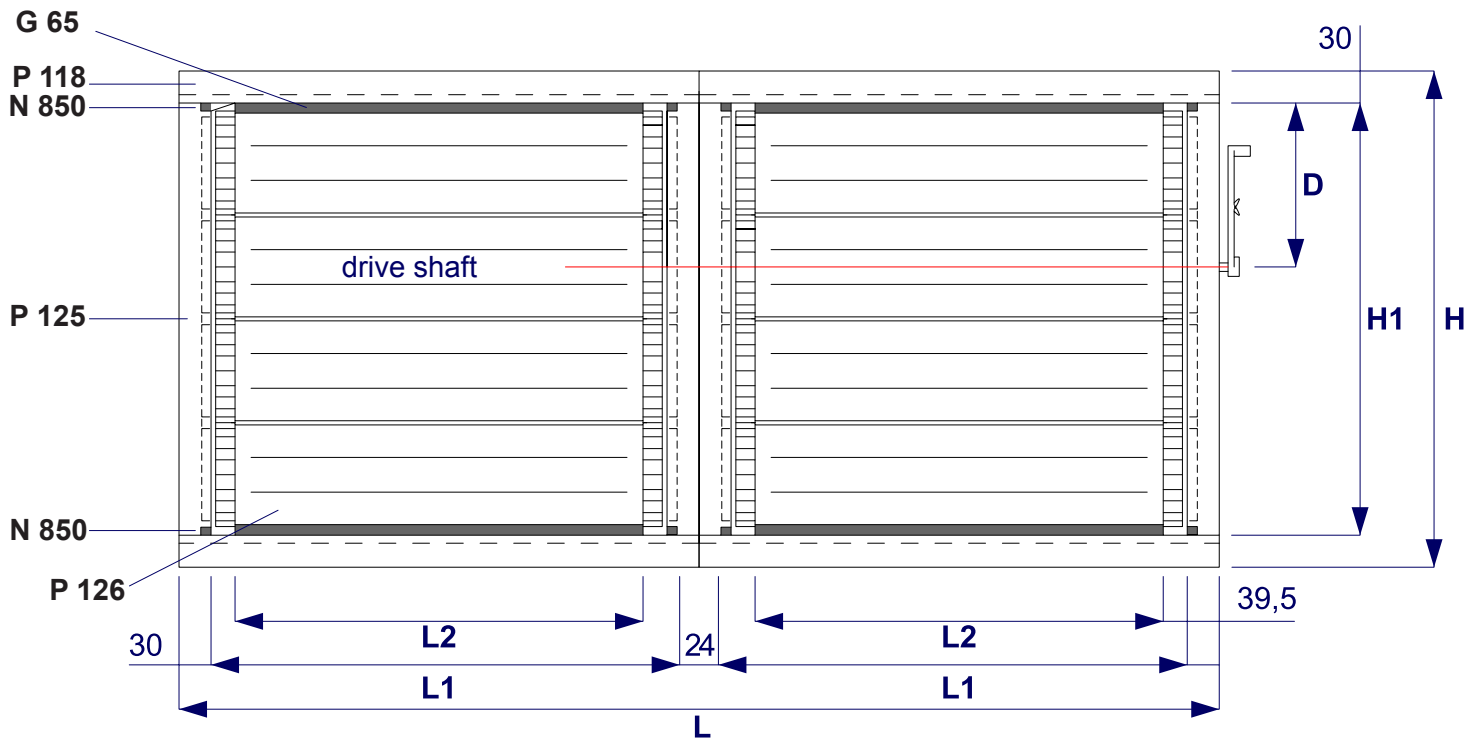
Close the shutter slats by hand. Set the shutter control mechanism **N 840** in the closed position and introduce the pin into blades **P 126**. Drill 1 hole in slat **P 126** and fasten the pin with a self-tapping screw. Fasten the control mechanism to upright **P 125** with self-tapping screws **ATF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



3D representation of double damper



Components for double damper / Instructions for assembly



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

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

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

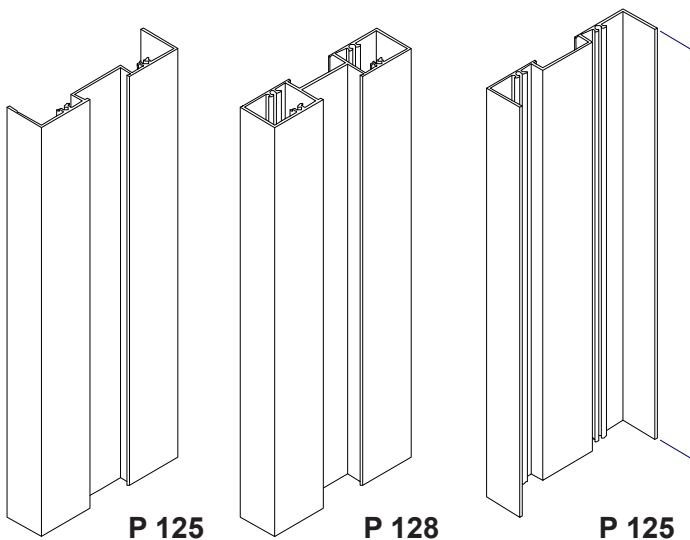
$$H = H1 + 60$$

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

1

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

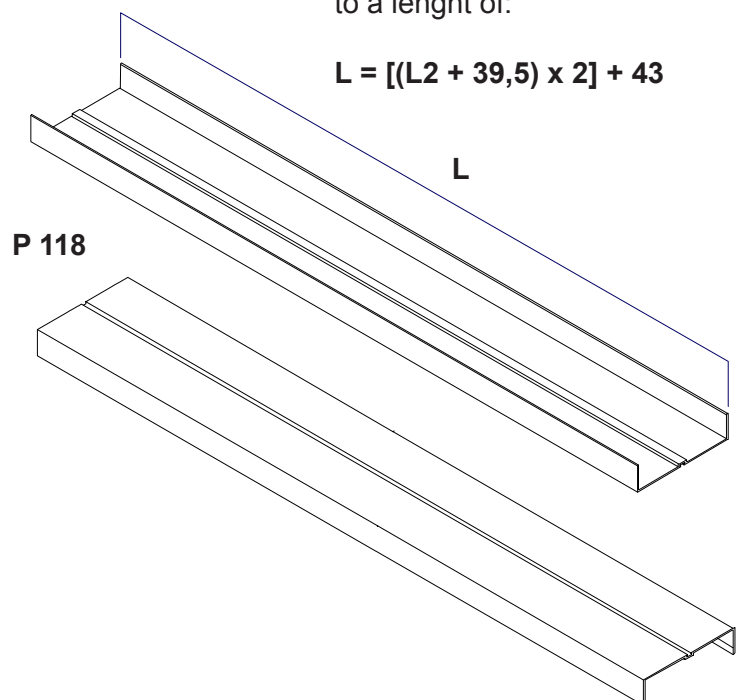
$$H1 = \text{number of slats} \times 101 + 8$$



2

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

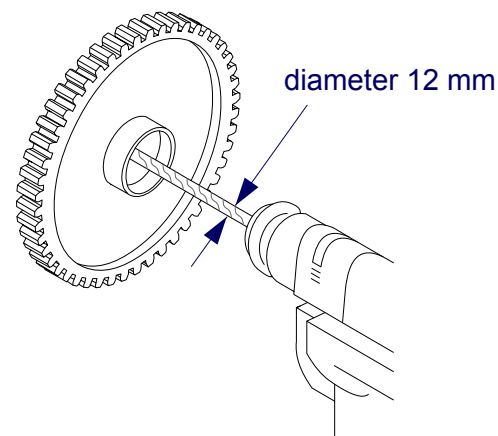
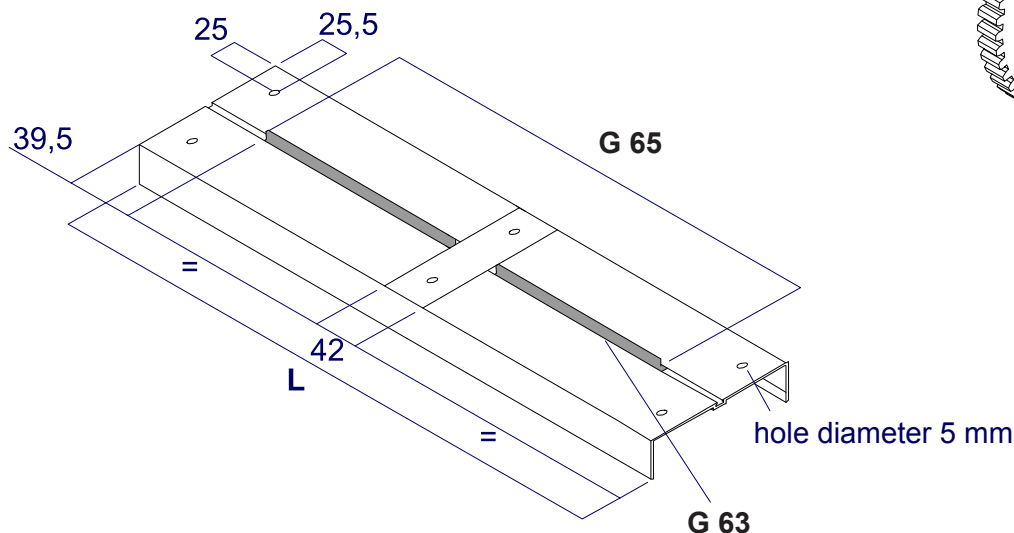
$$L = [(L2 + 39,5) \times 2] + 43$$



Components for double damper / Instructions for assembly

- 3** Drill 6 holes diameter 5 mm. on both ends of **P118** and insert gasket **G65** as shown in the picture.

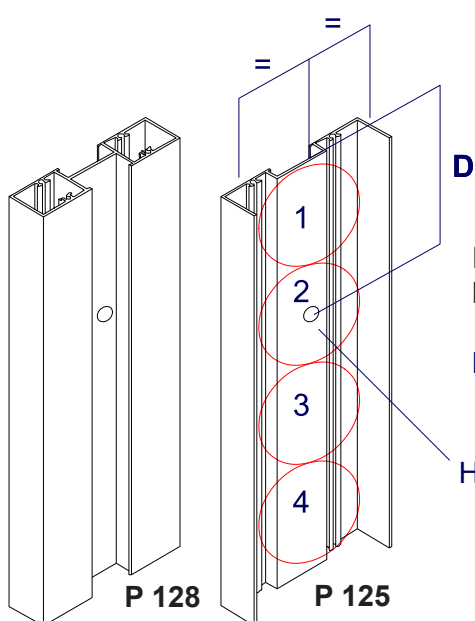
- 5** Drill 1 hole diameter 12 mm. in the 3 gears.



- 4** Drill 1 hole diameter 16 mm. on **P125** and **P128** uprights at a distance of:

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

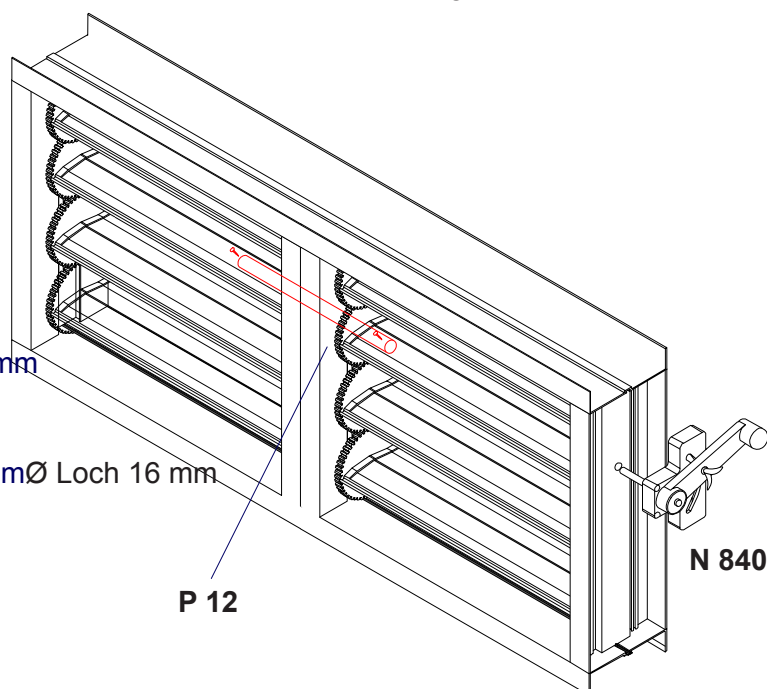
- 6** Mount shutter opening-closing control **N 840** and connect the two sets of slats together with pin **P 12** and fasten it with two self-tapping screws.



In the example:
 $D = 1 \times 101 + 54$

Hole diameter 16 mm

Hole diameter 16 mm Ø Loch 16 mm



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

Weight table

H1	/P125	Single damper																Double damper																N830	N830	L1
		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	4	5,64	5,92	6,62	6,98	7,34	7,68	8,04	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	4	5,64	5,92	6,62	6,98	7,34	7,68	8,04	8,40	8				
311	1,66	1,90	2,14	2,37	2,61	2,75	3,08	3,32	3,56	3,79	4,05	4,27	4,50	4,74	4,98	5,22	5,45	5,69	5,93	6,16	6,40	6,64	6	7,34	7,82	8,30	8,76	9,24	9,72	10,20	10,66	12				
412	2,05	2,35	2,65	2,95	3,24	3,54	3,84	4,14	4,43	4,73	5,03	5,32	5,62	5,92	6,21	6,51	6,81	7,10	7,40	7,70	8,00	8,29	8	9,14	9,82	10,40	11,00	11,60	12,18	12,78	13,38	16				
513	2,45	2,80	3,17	3,52	3,89	4,24	4,59	4,95	5,31	5,66	6,02	6,38	6,74	7,07	7,45	7,81	8,16	8,52	8,88	9,23	9,59	9,95	10	11,00	11,65	12,37	13,09	13,75	14,51	15,23	15,93	20				
614	2,85	3,26	3,69	4,10	4,51	4,93	5,35	5,76	6,18	6,60	7,01	7,43	7,85	8,27	8,68	9,01	9,51	9,93	10,35	10,77	11,19	11,65	12	12,81	13,55	14,39	15,23	16,07	16,83	17,55	18,55	24				
715	3,24	3,72	4,21	4,67	5,15	5,63	6,10	6,58	7,06	7,53	8,01	8,49	8,96	9,44	9,91	10,40	10,87	11,35	11,83	12,30	12,78	13,25	14	14,59	15,47	16,43	17,37	18,33	19,27	20,25	21,19	28				
816	3,64	4,17	4,73	5,25	5,79	6,32	6,86	7,39	7,93	8,47	9,00	9,54	10,08	10,61	11,15	11,69	12,23	12,76	13,30	13,84	14,38	14,91	16	16,31	17,37	18,45	19,53	20,59	21,67	22,75	23,83	32				
917	4,03	4,62	5,25	5,82	6,42	7,02	7,61	8,21	8,81	9,40	10,00	10,60	11,20	11,79	12,39	12,99	13,59	14,18	14,78	15,37	15,97	16,57	18	18,09	19,29	20,49	21,69	22,89	24,00	25,30	26,47	36				
1018	4,43	5,08	5,76	6,40	7,05	7,71	8,37	9,02	9,68	10,34	11,00	11,65	12,31	12,97	13,62	14,28	14,93	15,60	16,25	16,90	17,57	18,22	20	19,90	21,22	22,52	23,82	25,14	26,42	27,75	29,00	40				
1119	4,82	5,54	6,28	6,97	7,69	8,41	9,12	9,84	10,56	11,27	11,99	12,71	13,42	14,14	14,86	15,58	16,30	17,01	17,73	18,44	19,16	19,88	22	21,75	23,19	24,63	26,07	27,51	28,95	30,39	31,84	44				
1220	5,22	5,99	6,80	7,55	8,32	9,10	9,88	10,65	11,43	12,21	12,99	13,76	14,54	15,32	16,09	16,87	17,65	18,42	19,20	19,98	20,76	21,53	24	23,55	25,11	26,65	27,19	28,73	30,27	31,81	33,35	48				
1321	5,61	6,45	7,32	8,22	8,96	9,86	10,63	11,47	12,31	13,14	13,98	14,82	15,65	16,49	17,33	18,17	19,00	19,84	20,68	21,51	22,37	23,19	26	25,33	27,01	28,69	30,37	32,05	33,73	35,41	37,09	52				
1422	6,00	6,90	7,84	8,70	9,59	10,49	11,39	12,28	13,18	14,08	14,98	15,87	16,77	17,67	18,56	19,46	20,36	21,25	22,15	23,05	23,95	24,84	28	27,13	28,93	30,73	32,54	34,35	36,16	37,97	39,78	56				
1523	6,40	7,36	8,35	9,27	10,83	11,19	12,14	13,10	14,06	15,01	15,97	16,93	17,88	18,84	19,80	20,76	21,71	22,67	23,63	24,58	25,54	26,50	30	28,92	30,84	32,76	34,68	36,60	38,52	40,44	42,36	60				
1624	6,80	7,81	8,87	9,84	10,86	11,88	12,90	13,92	14,93	15,95	16,97	17,99	19,00	20,01	21,03	22,05	23,07	24,08	25,10	26,12	27,14	28,15	32	30,72	32,76	34,80	36,84	38,88	40,93	42,96	45,00	64				
1725	7,89	8,27	9,39	10,42	11,50	12,58	13,65	14,73	15,81	16,88	17,96	19,04	20,11	21,19	22,27	23,35	24,42	25,50	26,58	27,65	28,73	29,89	34	35,52	36,66	36,80	38,95	41,09	43,24	45,38	47,53	68				
1826	7,59	8,72	9,91	10,10	12,13	13,27	14,40	15,54	16,68	17,82	18,96	20,09	21,23	22,37	23,50	24,64	25,78	26,92	28,05	29,18	30,33	31,46	36	34,30	36,58	38,85	41,15	43,44	45,72	48,00	50,30	72				
1927	7,98	9,18	10,43	11,57	12,77	13,97	15,16	16,36	17,56	18,75	19,93	21,14	22,34	23,54	24,74	25,93	27,15	28,33	29,52	30,72	31,92	33,12	38	36,08	38,84	40,88	43,29	45,70	48,11	50,52	52,93	76				
2028	8,38	9,63	10,94	12,15	13,40	14,66	15,92	17,17	18,43	19,68	20,95	22,20	23,46	24,72	25,97	27,23	28,49	29,74	31,00	32,26	33,52	34,77	40	37,87	40,43	43,00	45,55	48,11	50,67	53,23	55,79	80				
	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250	1300	1400	1500	1600	1700	1800	1900	2000	L1					
P118	260	310	360	410	460	510	560	610	660	710	760	810	860	910	960	1010	1060	1110	1160	1210	1260	1310	1360	1460	1560	1660	1760	1860	1960	2060	Lmm.					
P126	181	231	281	331	381	431	481	531	581	631	681	731	781	831	881	931	981	1031	1081	1131	1181	1231	619	669	719	759	819	869	919	969	Lmm.					

Three aluminium louvers are available in our series.

Common characteristics are the design and the assembly method where the blades are automatically fixed and spaced out on the frame by the use of nylon spacers.

These spacers, positioned on both sides of the frame profile, hold the blades together and also enclose the frame keeping out water and dirt.

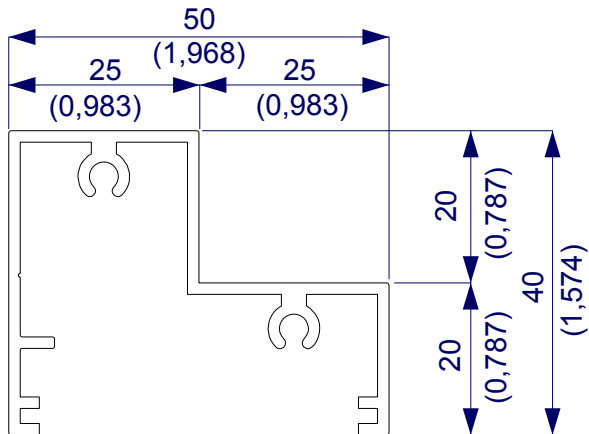
This system avoids the need for screws, rivets or expensive tool to fix the blades.

List of components for each louver:

- (P 129, P 121, N 825)
- (P 101, P 121, N 827)
- (P 124, P 123, N 820)



Profiles and accessories

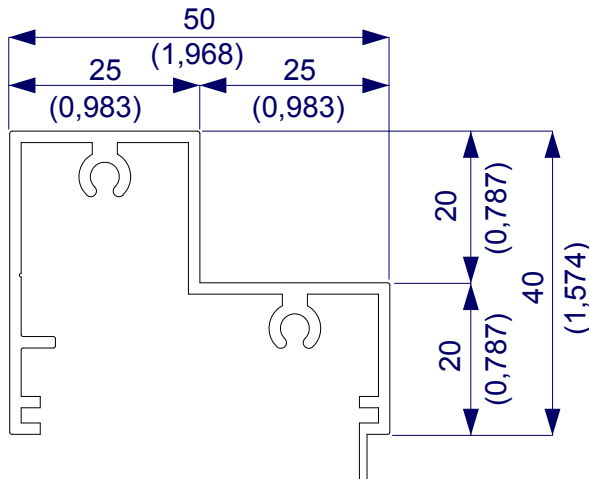


P 121

Weight kg/m 0,690

(lb/ft 0,463)

Bundle of 4 bars

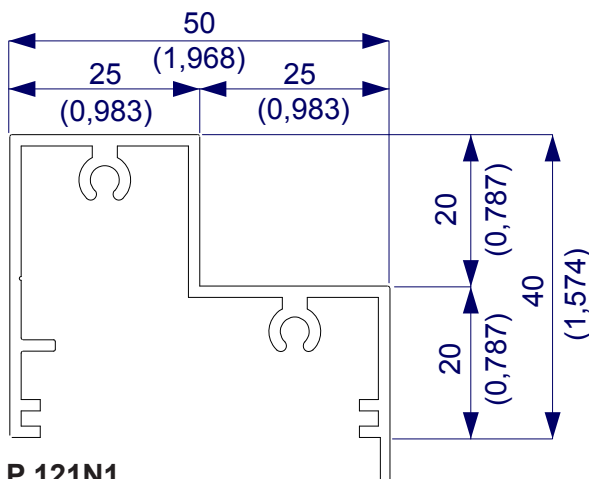


P 121N

Weight kg/m 0,695

(lb/ft 0,467)

Bundle of 4 bars

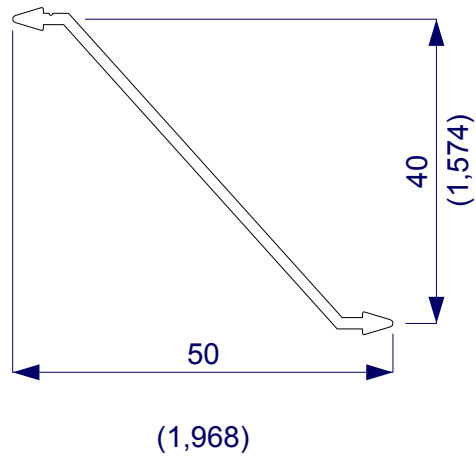
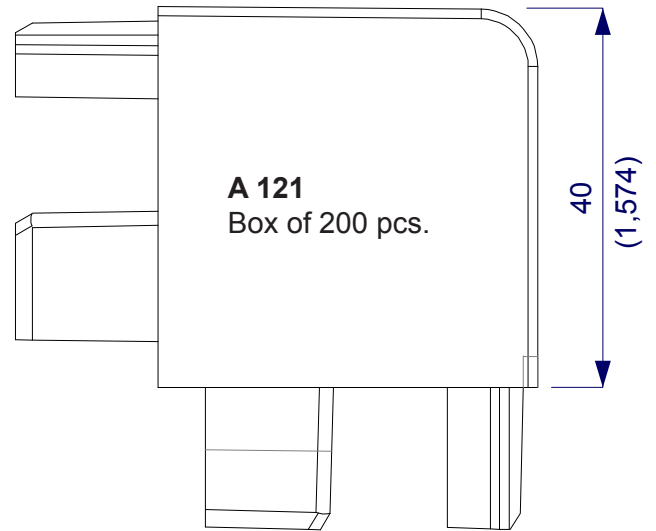


P 121N1

Weight kg/m 0,695

(lb/ft 0,467)

Bundle of 4 bars

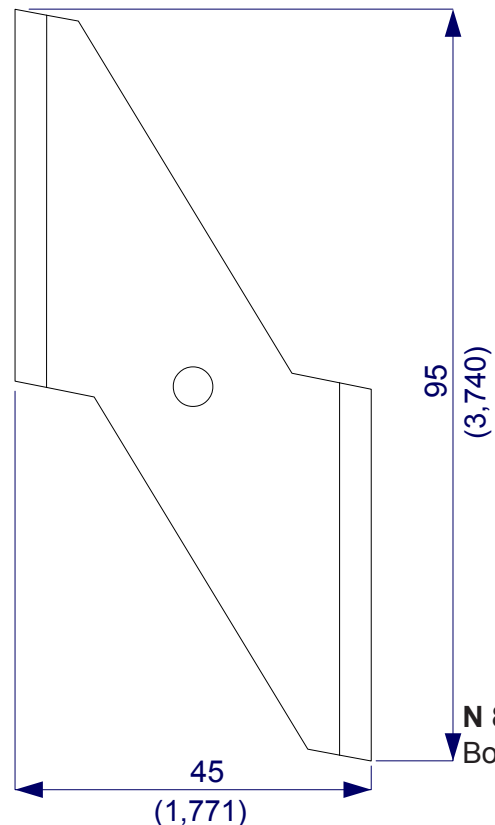


P 129

Weight kg/m 0,280

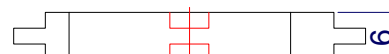
(lb/ft 0,188)

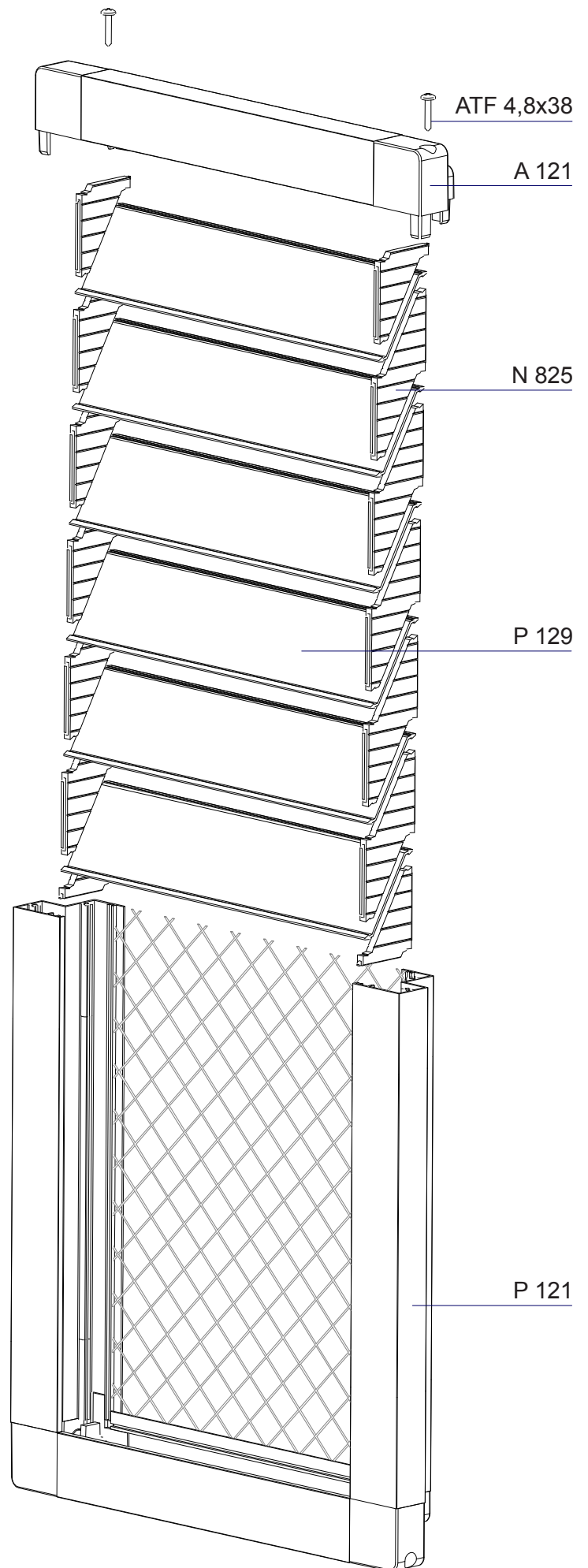
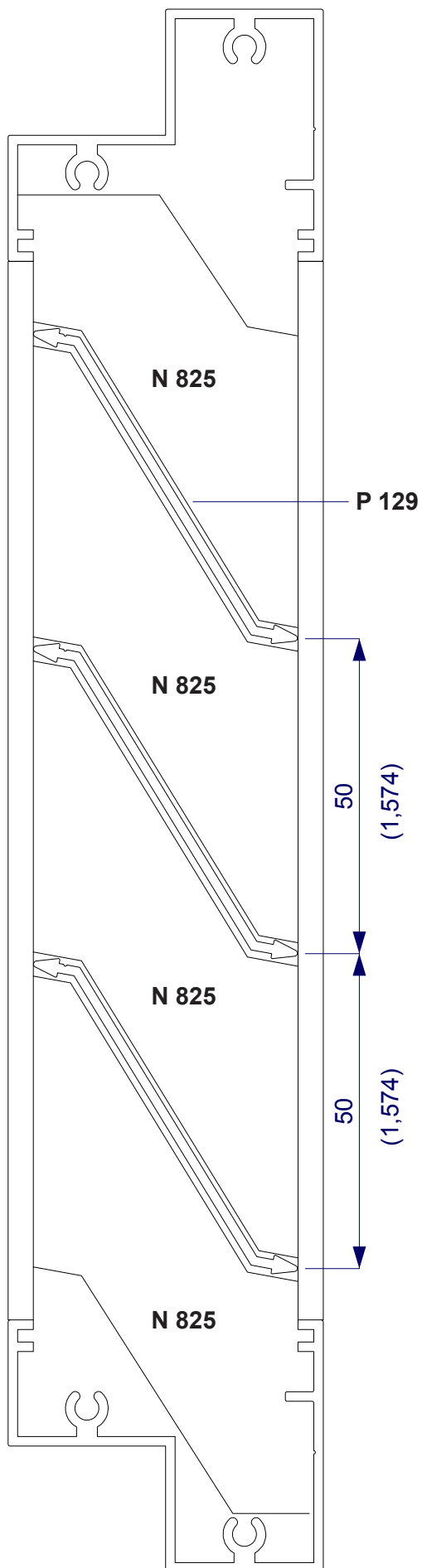
Bundle of 10 bars



N 825

Box of 500 pcs.





P 121 - P 129 - N 825

FORMULA:

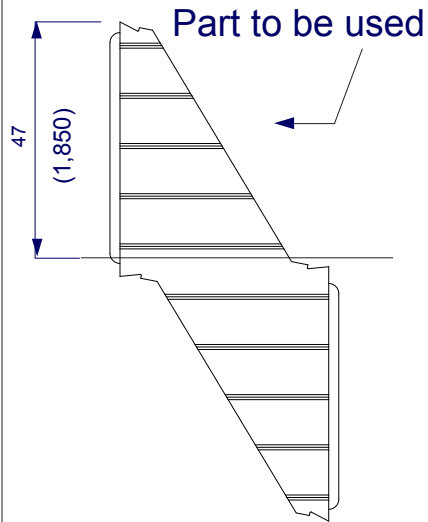
$$B = A - 80 \text{ mm}$$

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

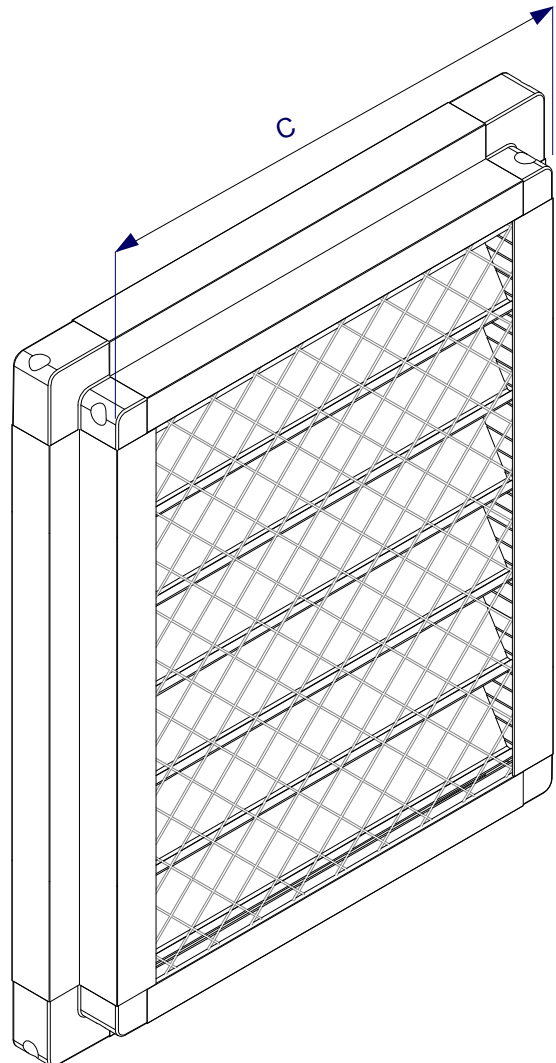
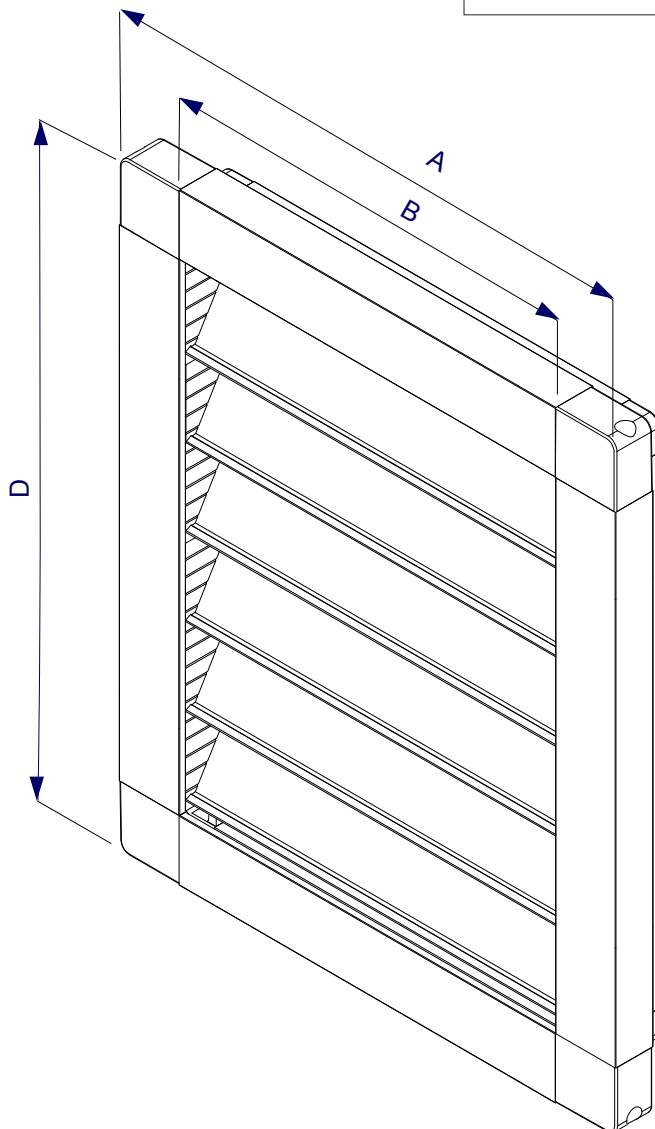
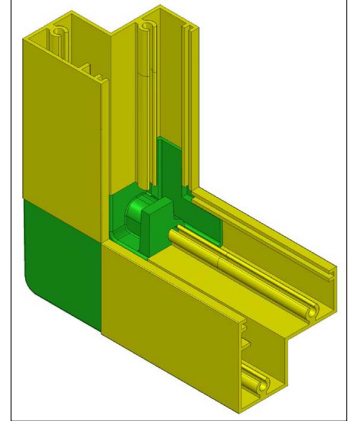
$$L \text{ blade} = A - 58 \text{ mm}$$

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

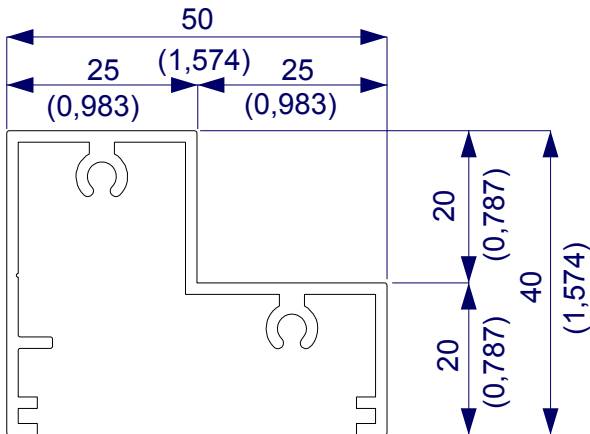
Cut of the spacer N 825 for placing the first blade



Cut at 47 mm from the top



Profiles and accessories

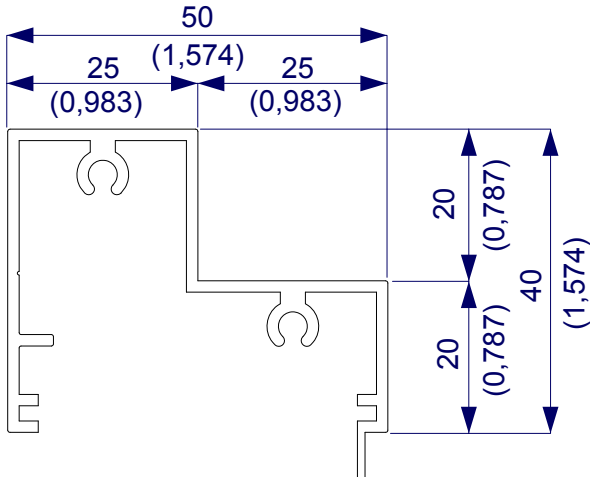


P 121

Weight kg/m 0,690

(lb/ft 0,463)

Bundle of 4 bars

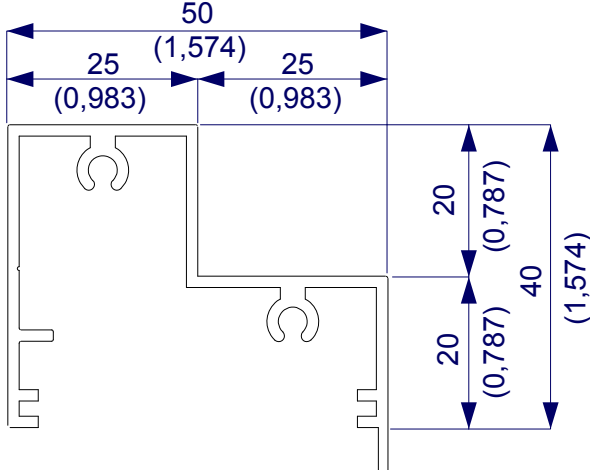


P 121N

Weight kg/m 0,695

(lb/ft 0,467)

Bundle of 4 bars

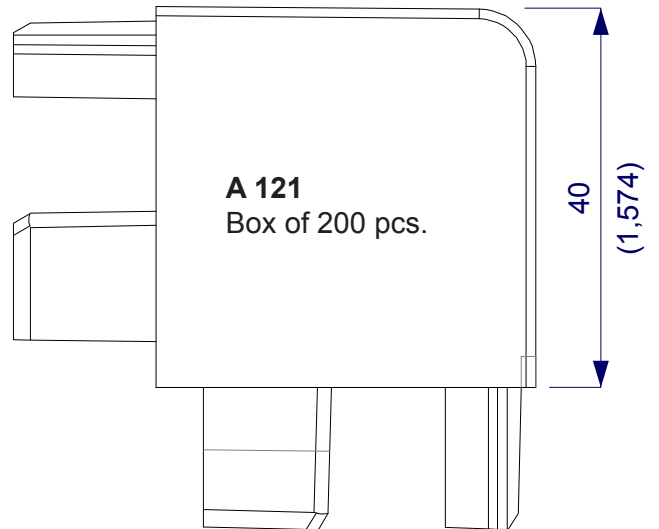


P 121N1

Weight kg/m 0,695

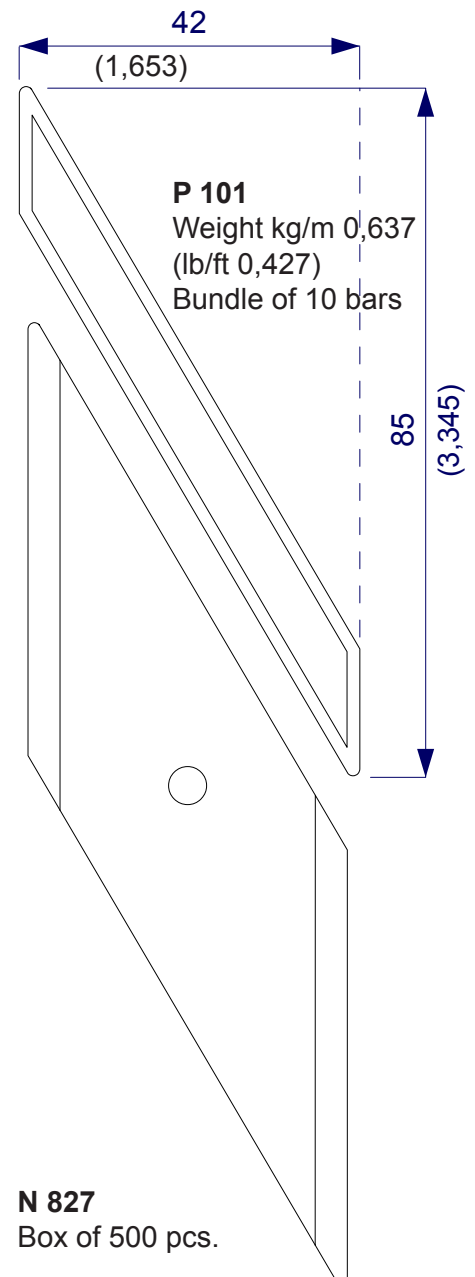
(lb/ft 0,467)

Bundle of 4 bars



A 121

Box of 200 pcs.



P 101

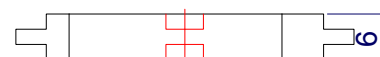
Weight kg/m 0,637

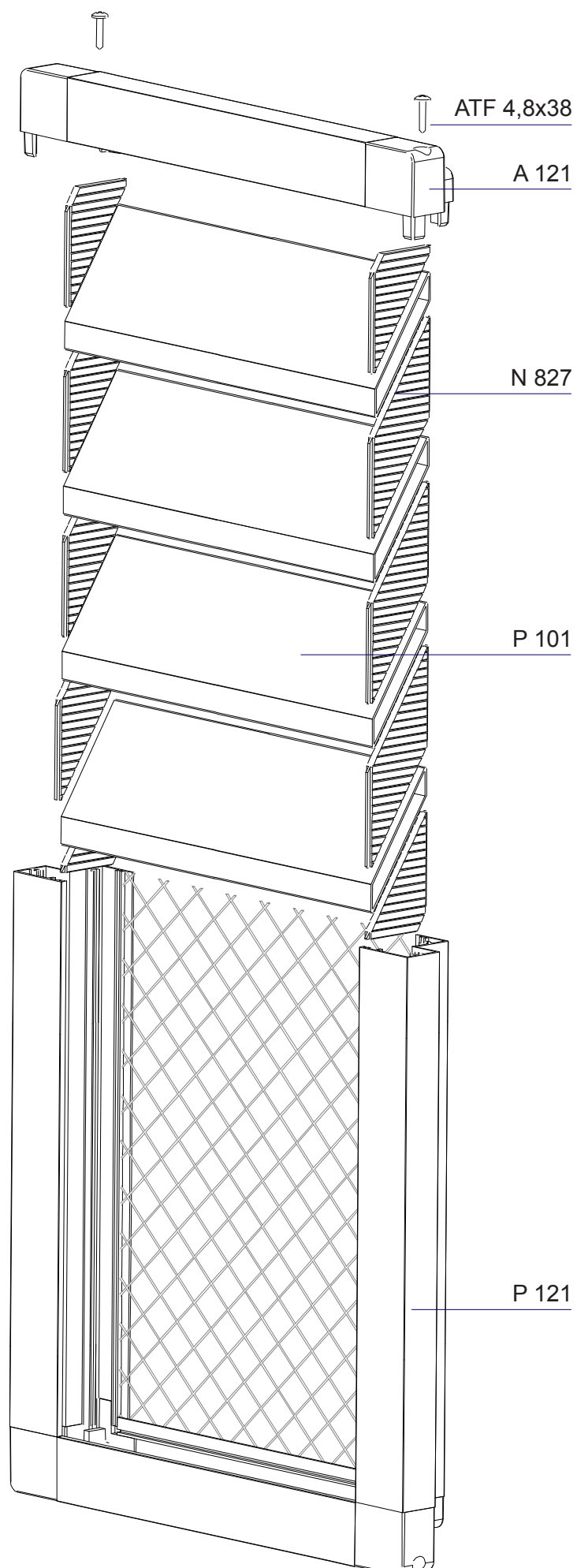
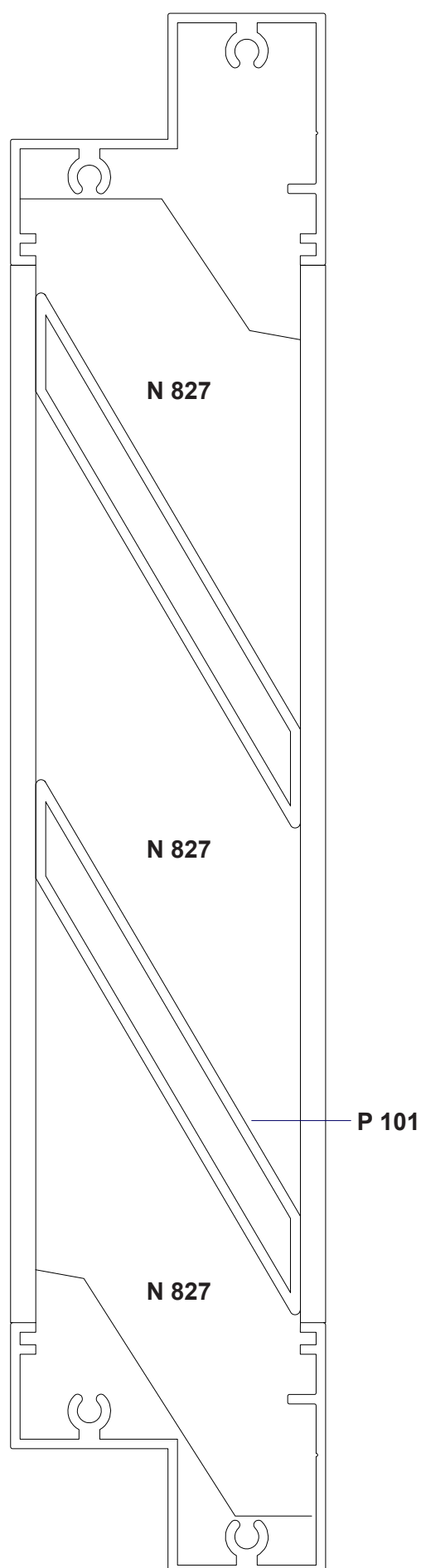
(lb/ft 0,427)

Bundle of 10 bars

N 827

Box of 500 pcs.





P 121 - P 101 - N 827

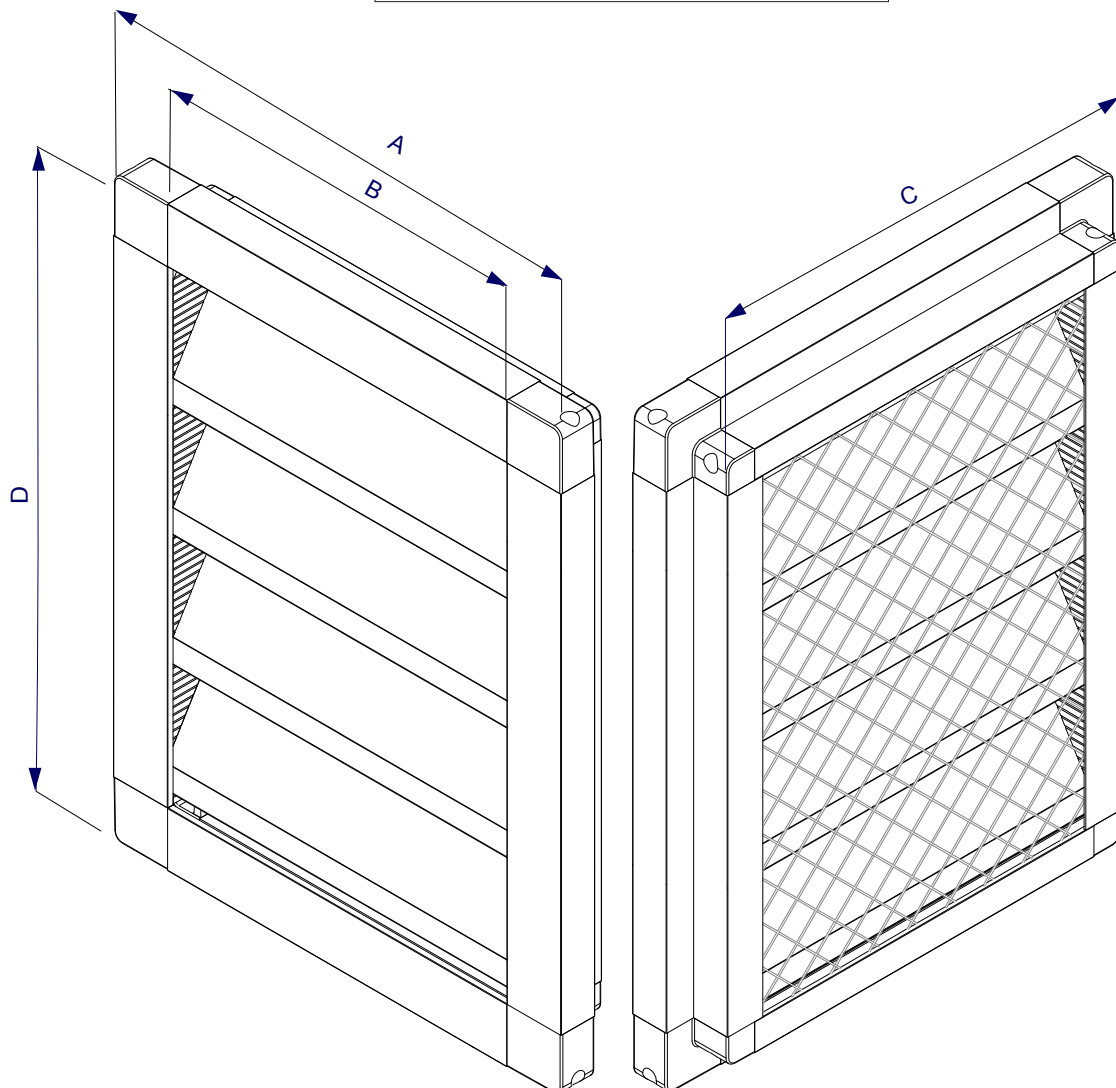
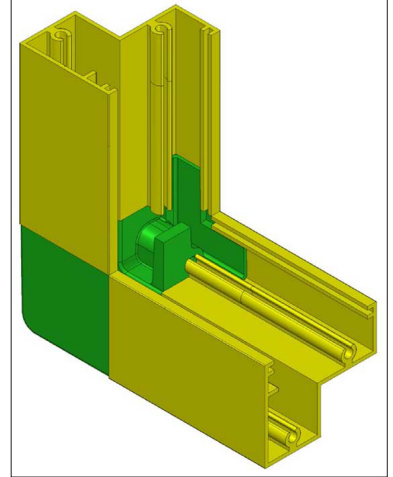
FORMULA:

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

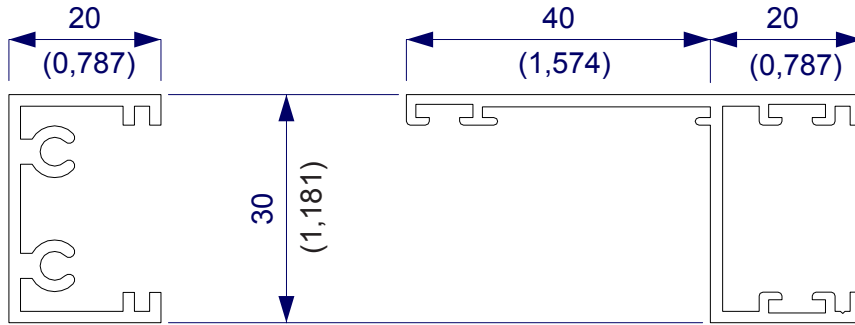
$$C = A - 40 \text{ mm}$$

$$L \text{ blade} = A - 58 \text{ mm}$$

$$N^{\circ} \text{blade} = (D - 60) : 82,5 \text{ mm}$$

Cut of the spacer N 827
for placing the first bladeCut at 11th
line from
the topPart to
be used

Profiles and accessories



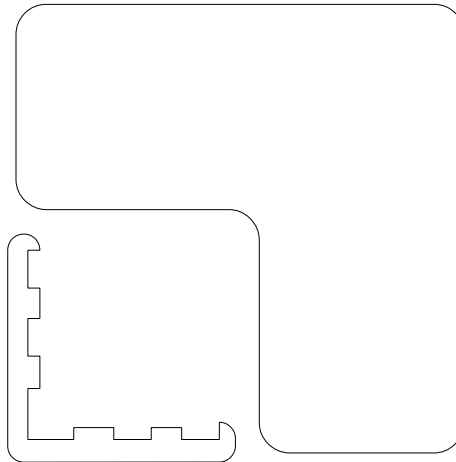
P 123

Weight kg/m 0,444
(lb/ft 3,208)
Bundle of 6 bars

P 122

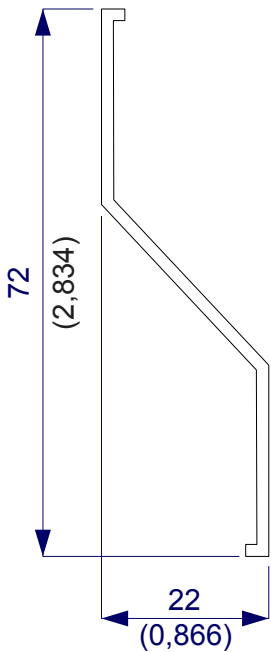
Weight kg/m 0,519
(lb/ft 0,348)
Bundle of 6 bars

Nylon corners to reinforce
the **P122** frame



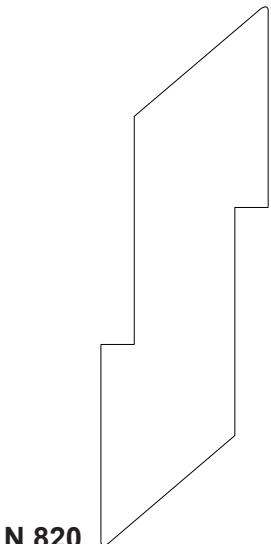
N 810

Box of 500 pcs.



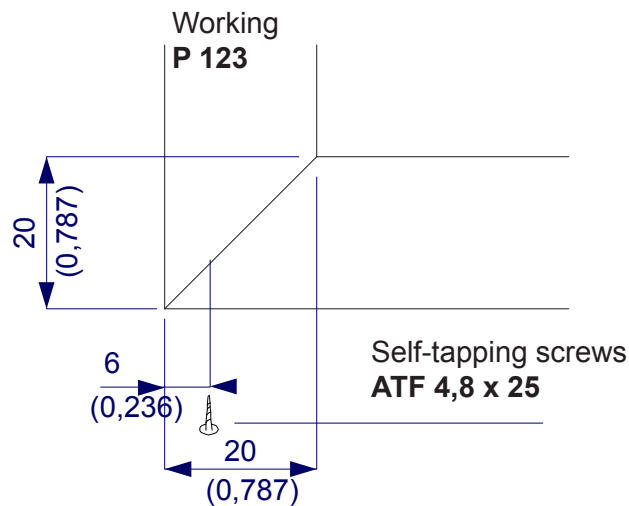
P 124

Weight kg/m 0,343
(lb/ft 0,230)
Bundle of 10 bars



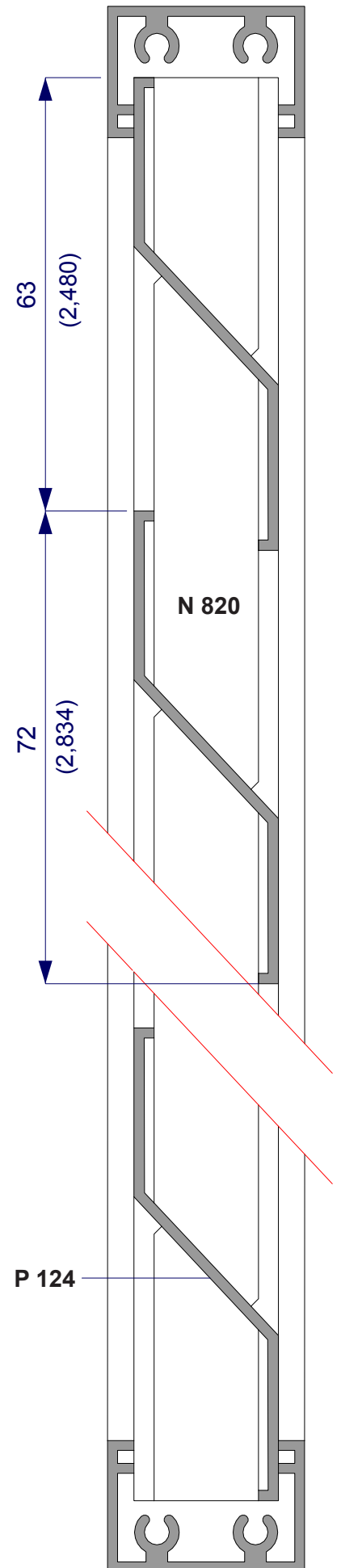
N 820

Box of 450 pcs.

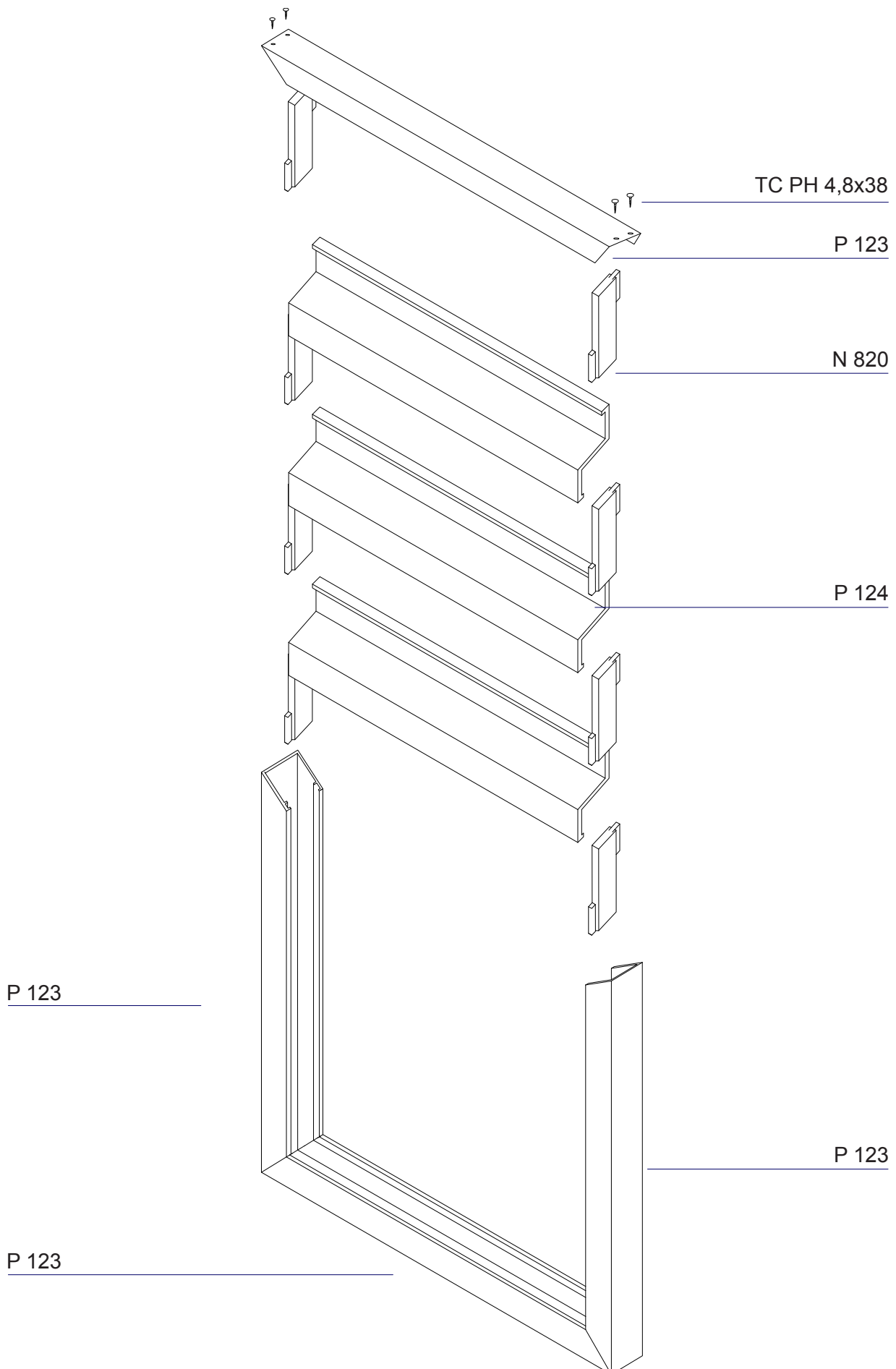


Working
P 123

Self-tapping screws
ATF 4,8 x 25



3D representation



Mist eliminators are available in two different versions: the first has the blades in aluminium which are the profiles P 100 or P 180 and the second one has polyethylene blades with profiles PP 106 or 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 two pitches: 40 mm (N 826) and 25 mm (N 900). The combs 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 for additional support.

The mist eliminators have grooves where gaskets (G 65) are placed as to increase or decrease the surface of exchange and 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 to note is that changes in performance are achieved through the variable “comb’s” pitch of 25 or 40 mm.

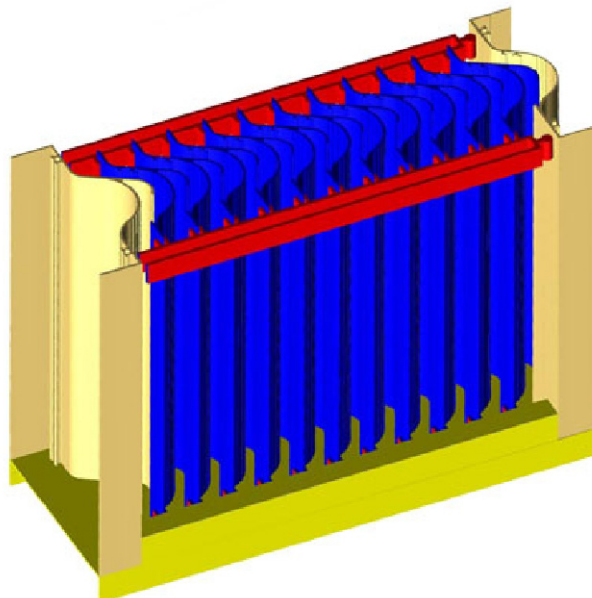
The profiles P 100 and PP 106 can be assembled in their “special” frame by aluminium profiles P 110, P 111, P 112.

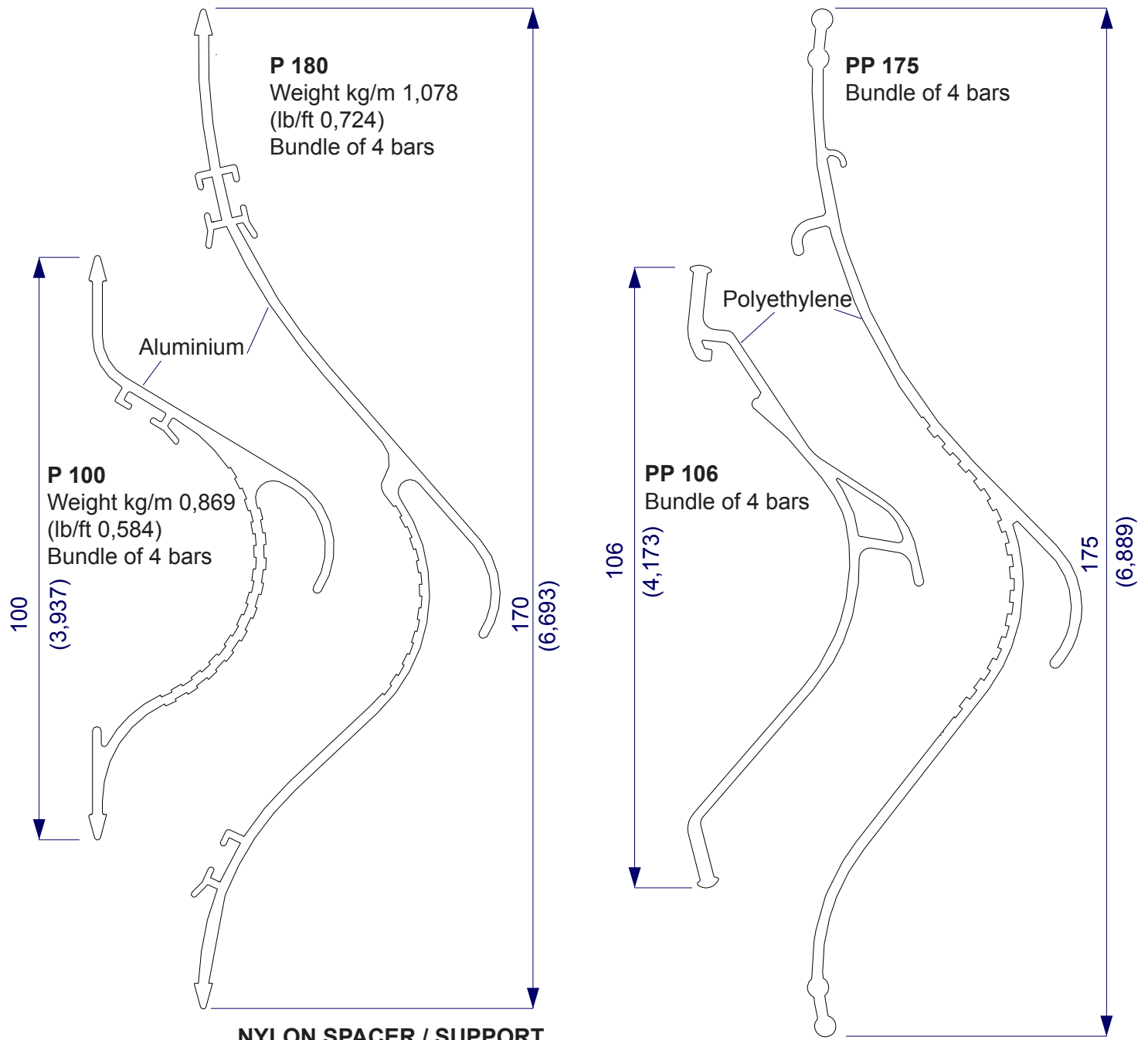
The unique characteristic of this frame is that the two posts profiles have the mist eliminator blade shape. For this characteristic, the mist eliminator has an exclusively special efficiency.

The post profiles have two functions at the same time: they support the frame and work as mist eliminator blade themselves.

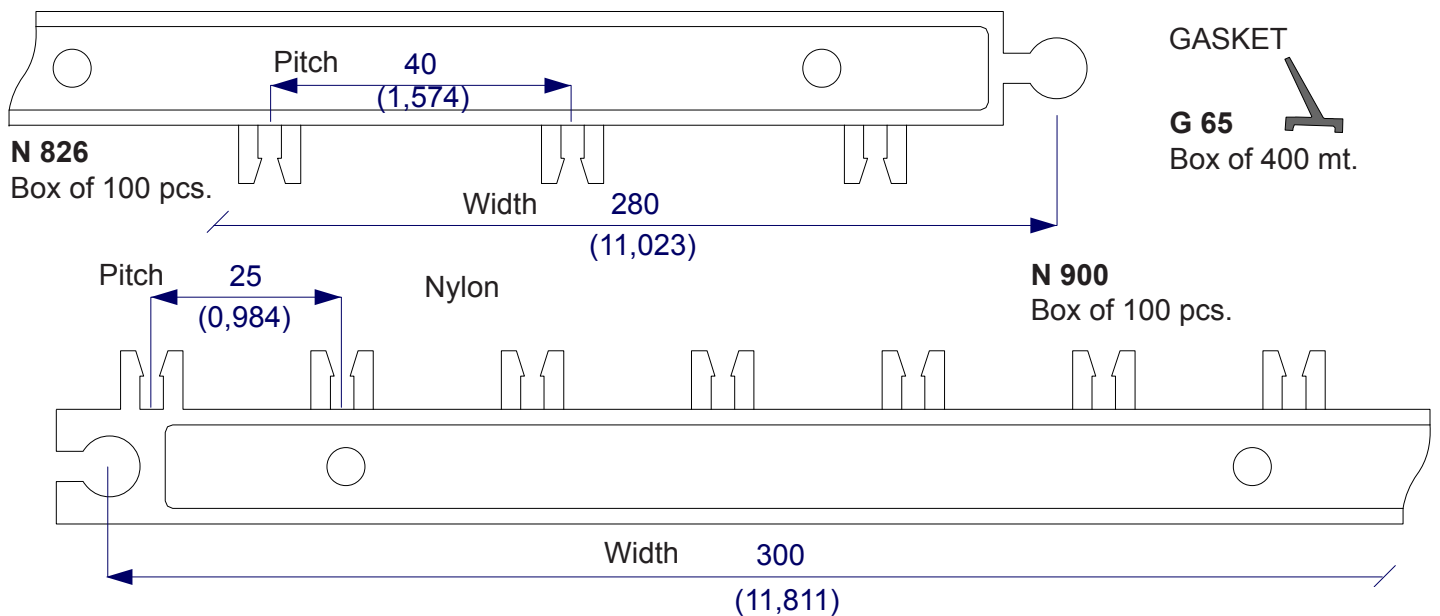
The frame is very easy to assemble and it is solid even though in aluminium.

This section gives 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.

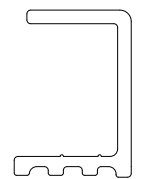
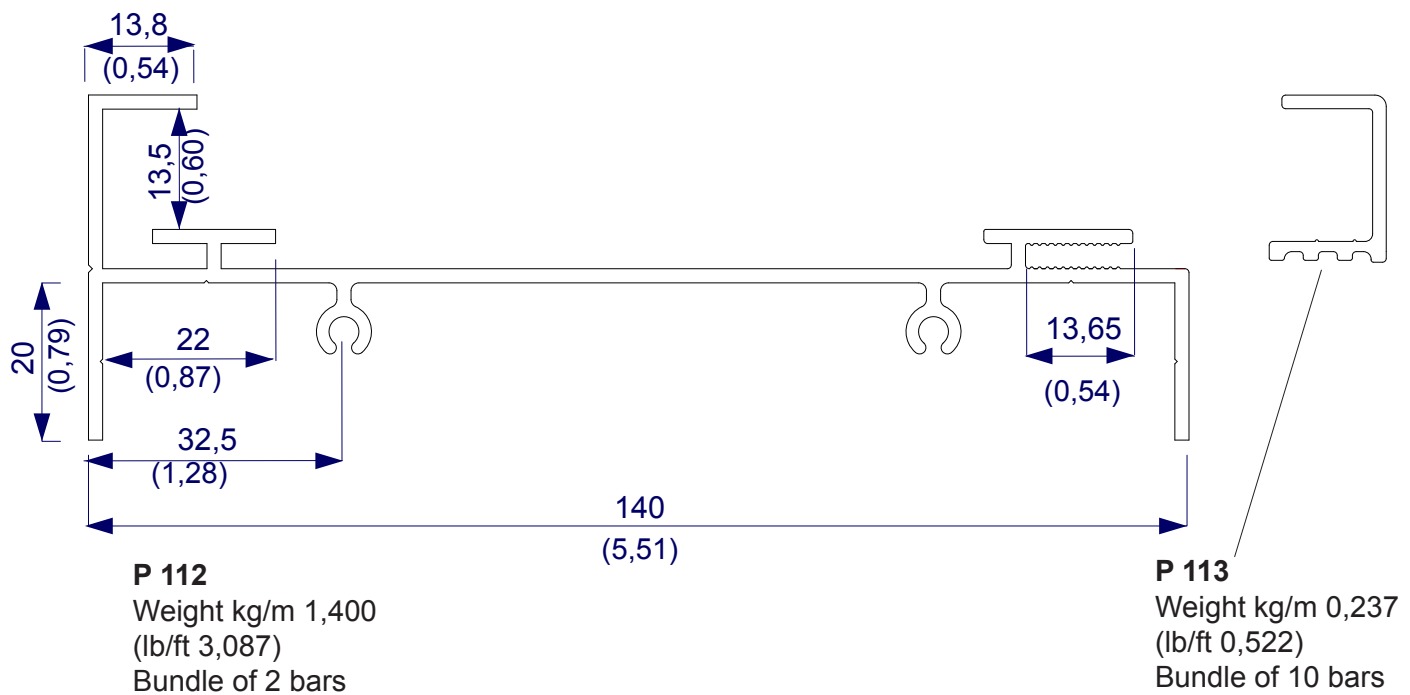
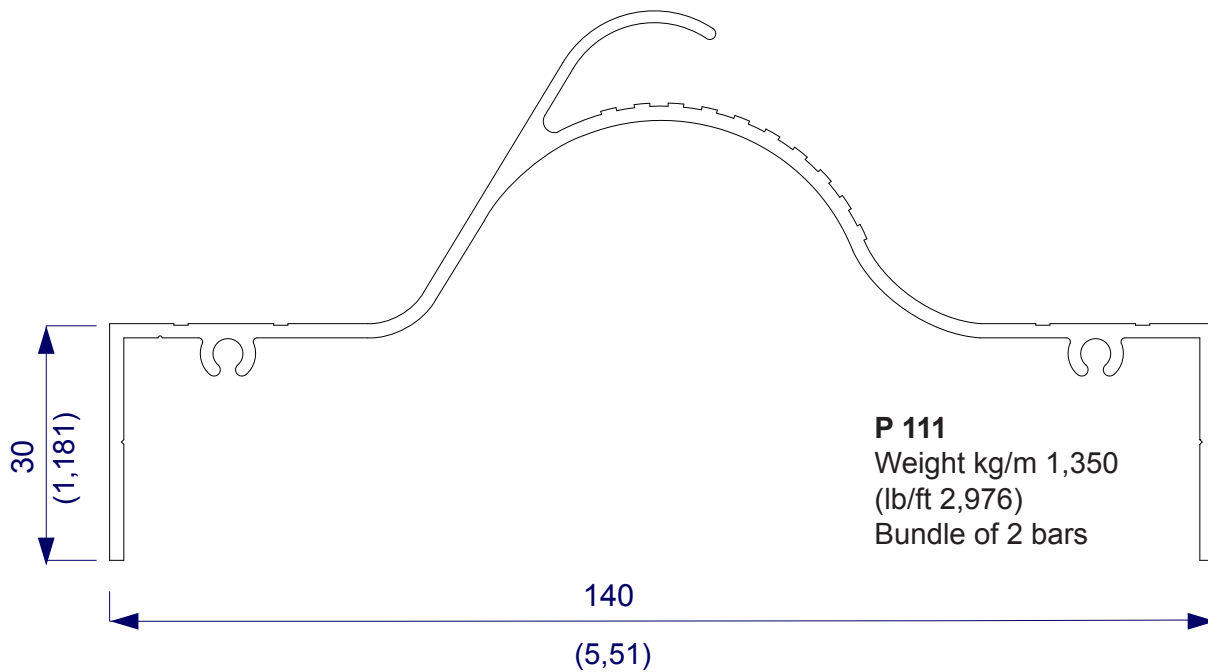
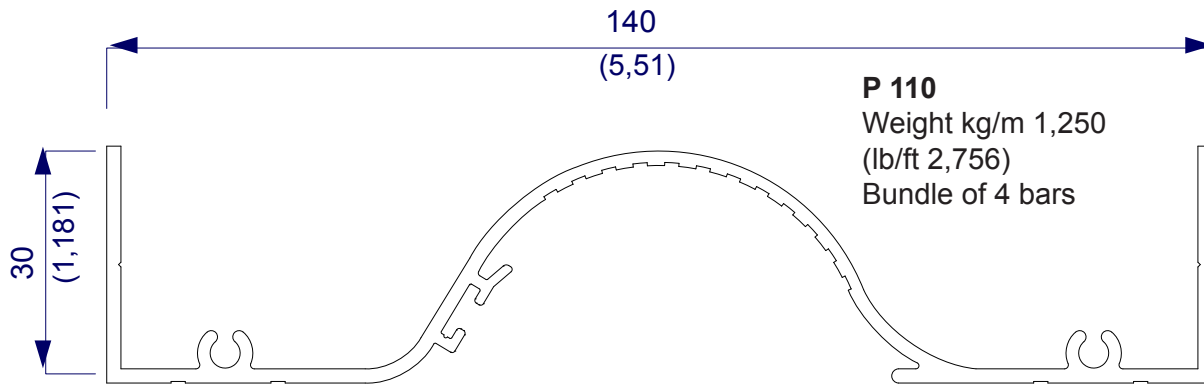




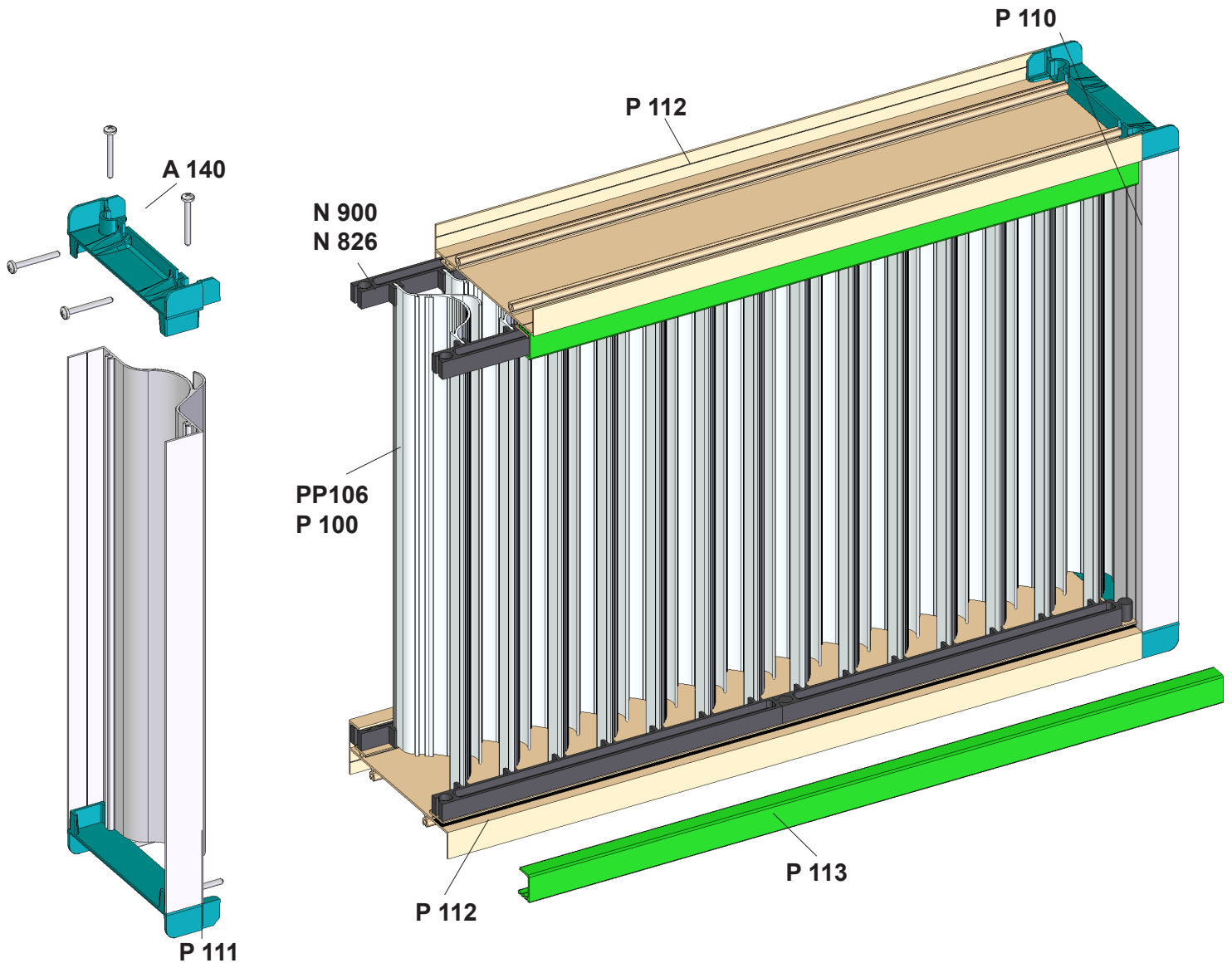
NYLON SPACER / SUPPORT



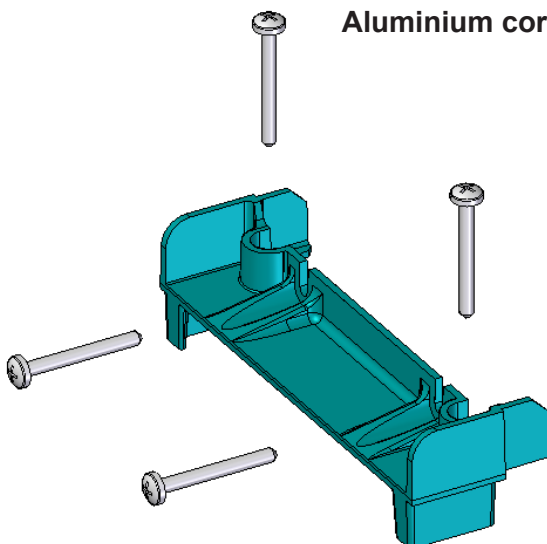
Aluminium profiles to build the frame of mist eliminator blades P 100 and PP106



3D representation of aluminium or polyethylene mist eliminator
assembled with the "special" frame P110, P111, P112. P 113

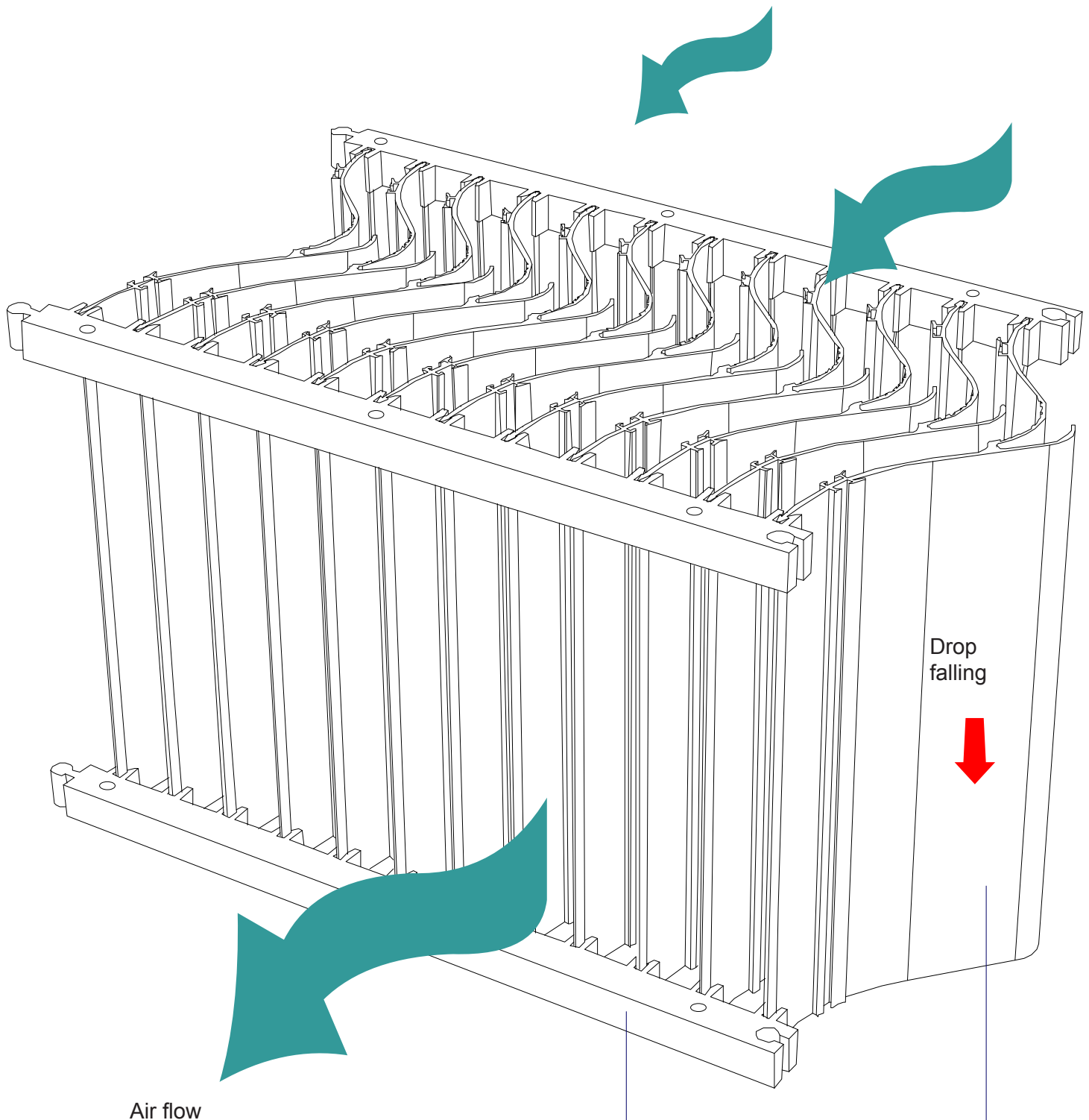


Aluminium corner for mist eliminator frame



A 140
Box of 100 pcs.

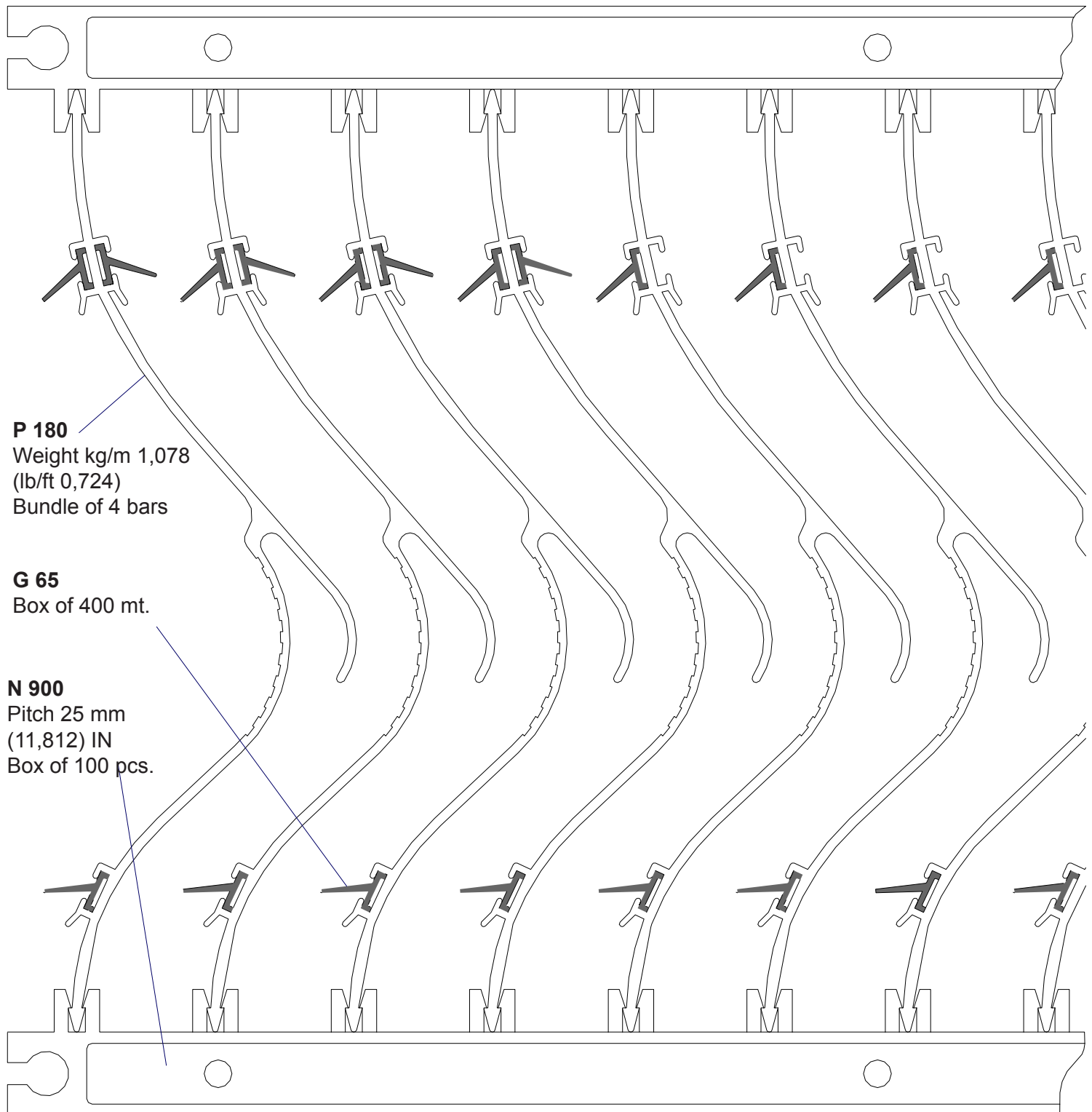
3D representation of mist eliminator H 180 pitch 25 mm.
(without gaskets)



Air flow

N 900
Pitch 25 mm
Box of 100 pcs.

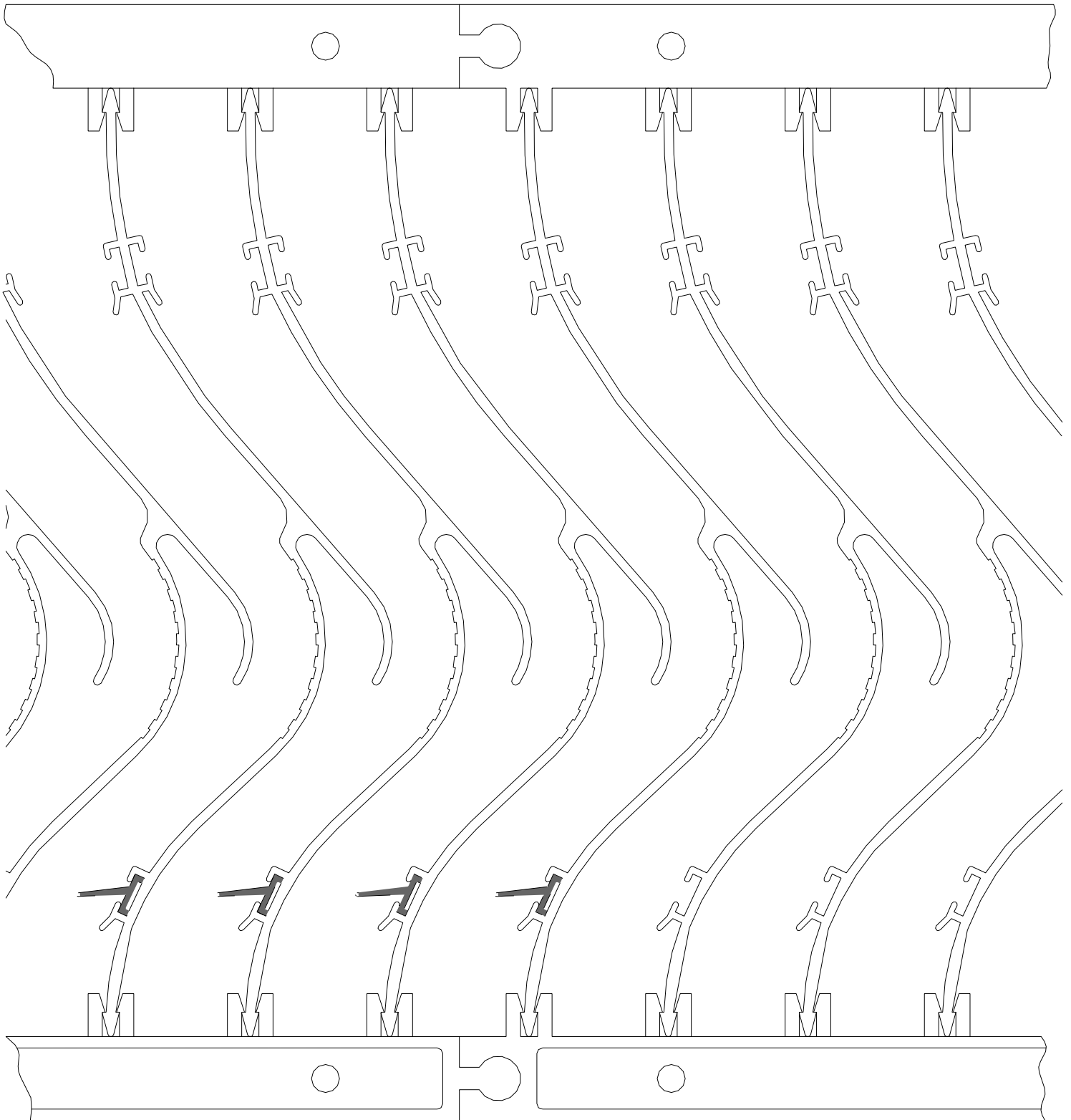
P 180
Weight kg/m 1,078
(lb/ft 0,724)
Bundle of 4 bars

Aluminium mist eliminator**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.

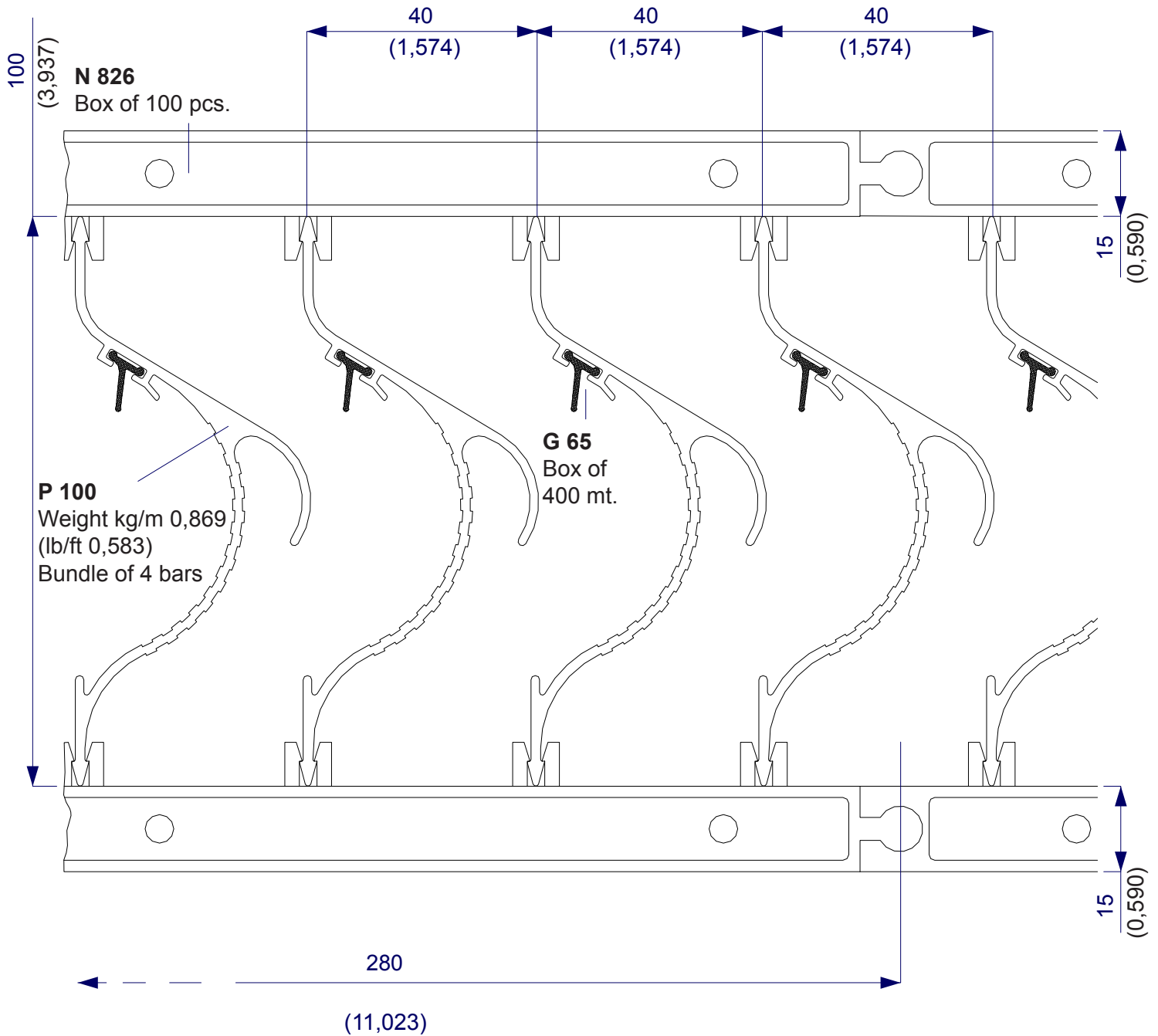
Aluminium mist eliminator**Way C**

- 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.

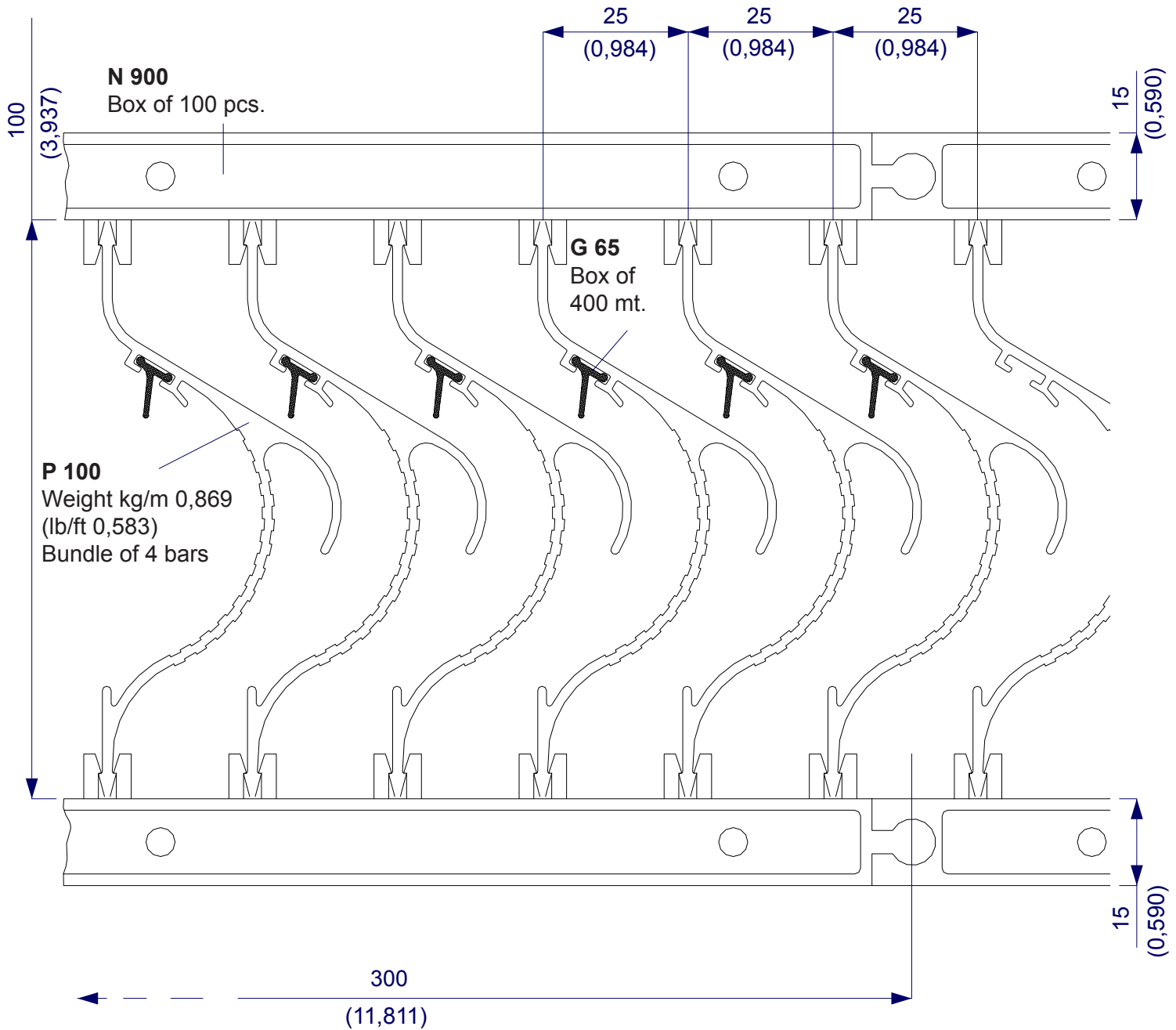
Way D

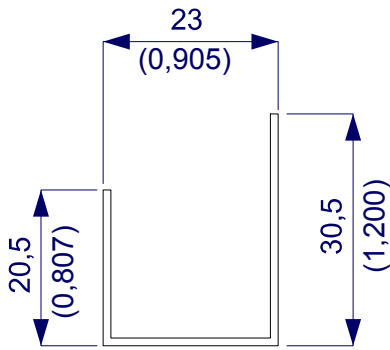
- Profile P 180.
- Range of application: Face velocity 5-6 m/sec.
- Air cooler.
- Its main purpose is to remove the droplets entrained by the film of liquid formed on the cooling fins.

2D representation of mist eliminator H 100 pitch 40 mm



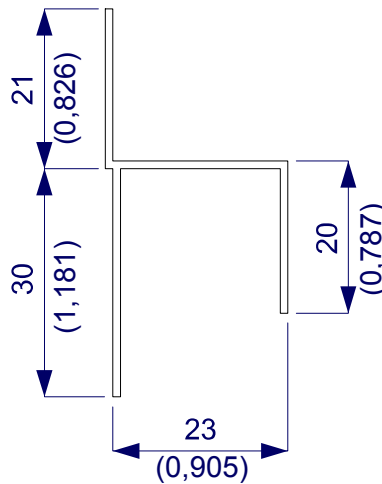
2D representation of mist eliminator H 100 pitch 25 mm





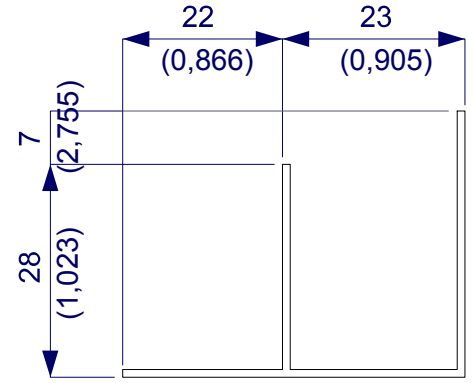
P 152

Weight kg/m 0,262
(lb/ft 0,176)
Bundle of 10 bars



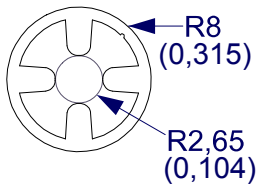
P 153

Weight kg/m 0,338
(lb/ft 0,227)
Bundle of 10 bars



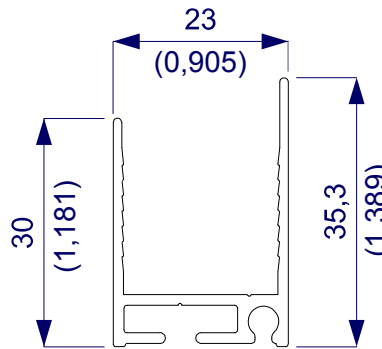
P 154

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



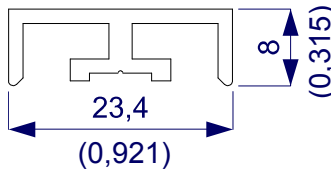
P 162

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



P 161

Weight kg/m 0,380
(lb/ft 0,255)
Bundle of 10 bars



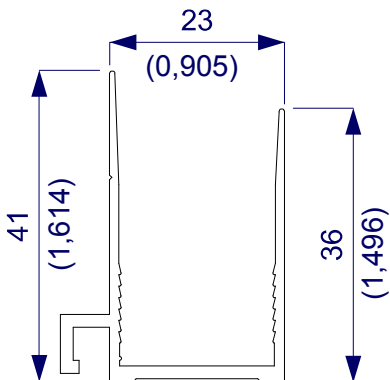
P 156

Weight kg/m 0,227
(lb/ft 0,152)
Bundle of 12 bars



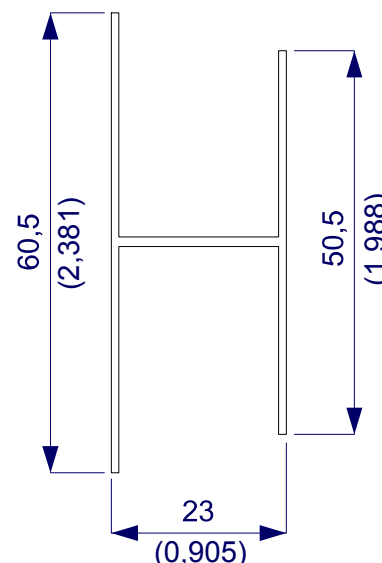
PVC 161

Bundle of 10 bars



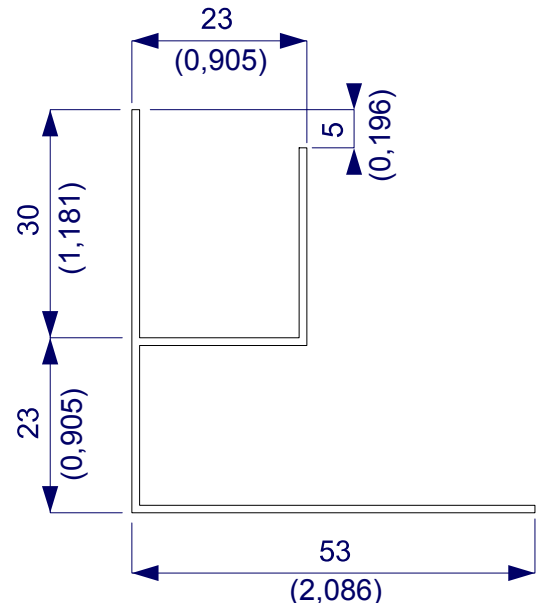
P 155

Weight kg/m 0,416
(lb/ft 0,279)
Bundle of 10 bars



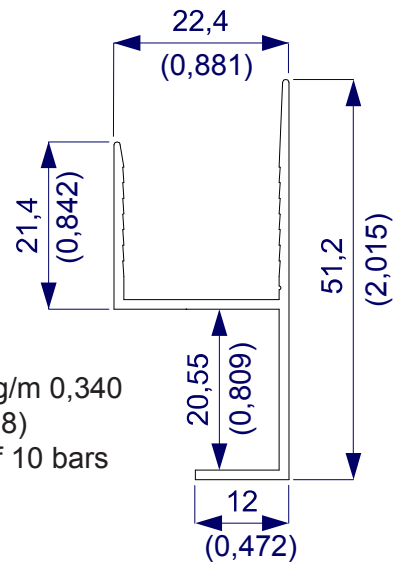
P 159

Weight kg/m 0,419
(lb/ft 0,281)
Bundle of 10 bars



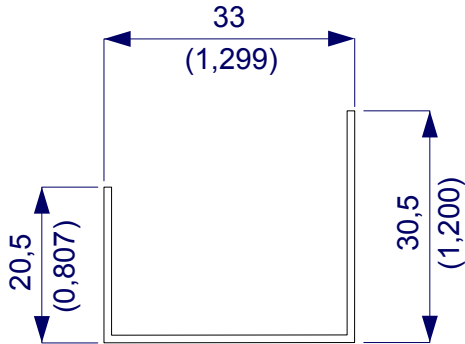
P 160

Weight kg/m 0,484
(lb/ft 0,152)
Bundle of 12 bars



P 158

Weight kg/m 0,340
(lb/ft 0,228)
Bundle of 10 bars

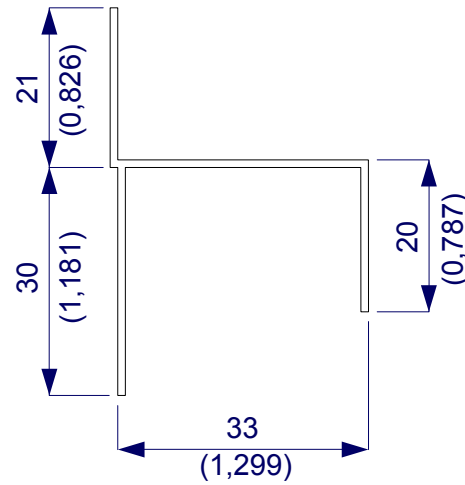


P 152/30

Weight kg/m 0,275

(lb/ft 0,176)

Bundle of 10 bars

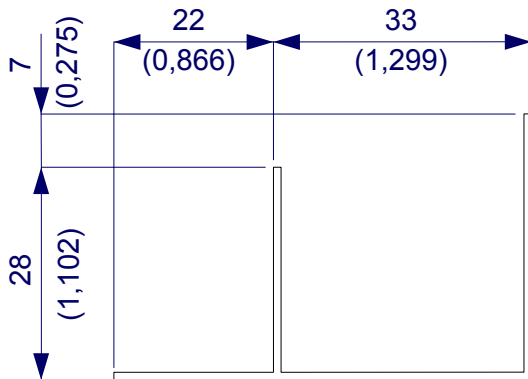


P 153/30

Weight kg/m 0,341

(lb/ft 0,227)

Bundle of 10 bars

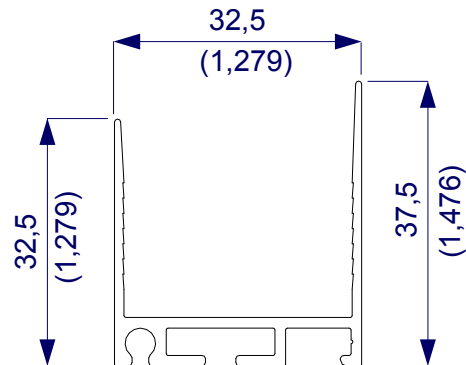


P 154/30

Weight kg/m 0,387

(lb/ft 0,260)

Bundle of 10 bars



P 161/30

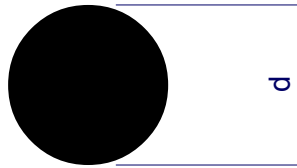
Weight kg/m 0,43

(lb/ft 0,289)

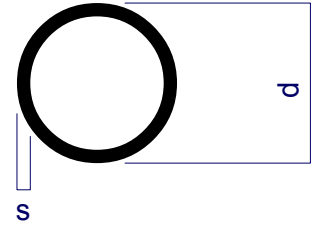
Bundle of 10 bars

PRO-LAM produces profiles according to your drawing specifications
(Available presses: 1600/2000 TON)

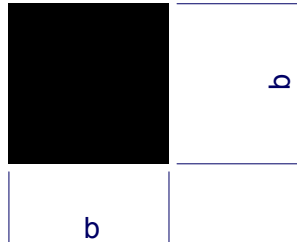
Round bars



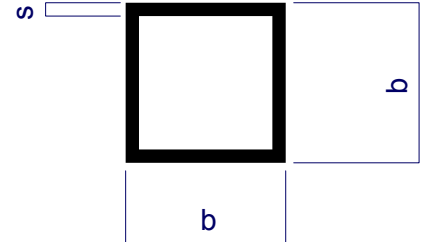
Round tubes



Square bars



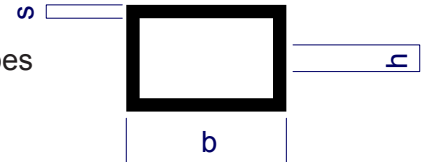
Square tubes



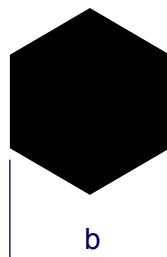
Flat bars



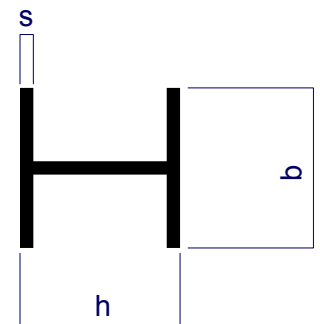
Rectangular tubes



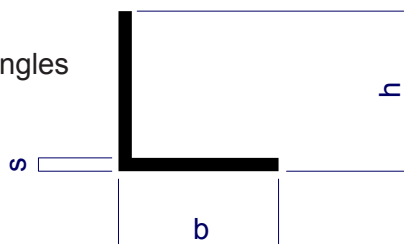
Hexagonal bars



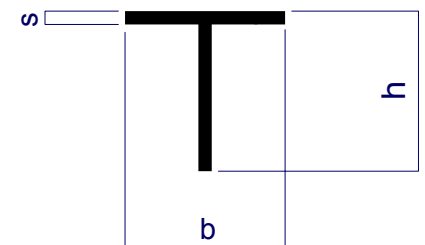
H bars



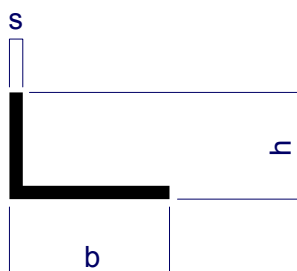
Symmetrical angles



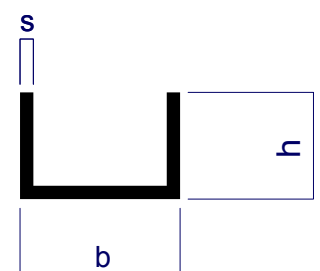
Symmetrical T



Asymmetrical angles



Channels

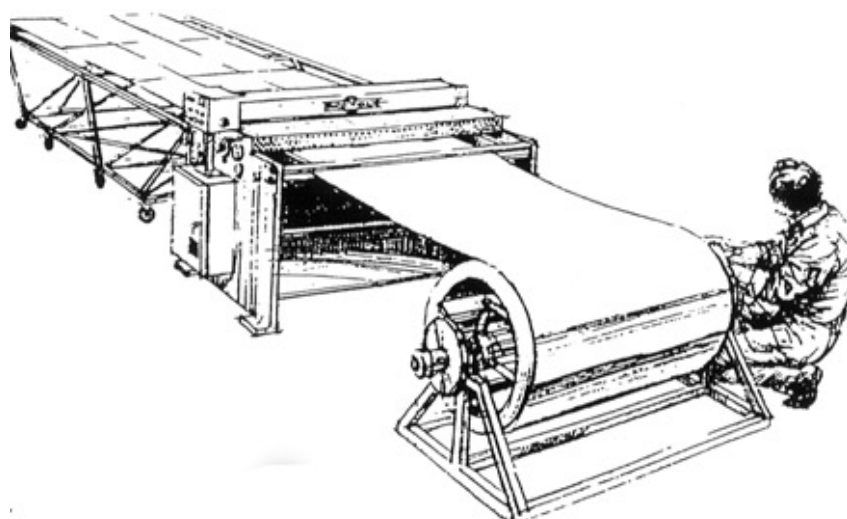


Peralluman (raw) aluminium sheet cut to length		
Thickness	Weight	Cover
0.8	1000,1250,1500	Pvc
1	1000,1250,1500	Pvc
1.2	1000,1250,1500	Pvc
1.5	1000,1250,1500	Pvc
2	1000,1250,1500	Pvc
3	1000 x 2000 (standard format)	Pvc
4	1000 x 2000 (standard format)	Pvc
5	1000 x 2000 (standard format)	Pvc

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

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

Pre-painted aluminium sheet cut to length			
Colour	Thickness	Width	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
Many other RAL colours are available in standard format			



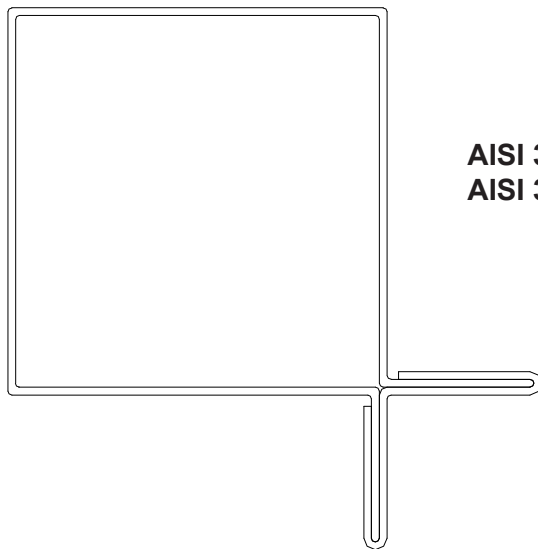
Stainless steel profiles

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

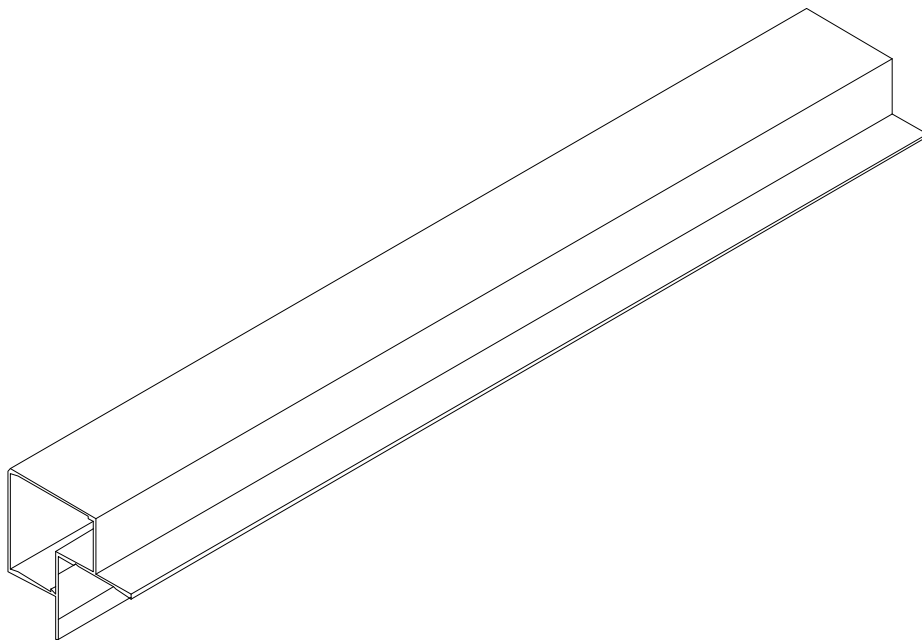
These profiles have been introduced to meet the needs of AHU builders who require a frame which is particularly corrosion resistant against atmospheric and chemical agents.

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

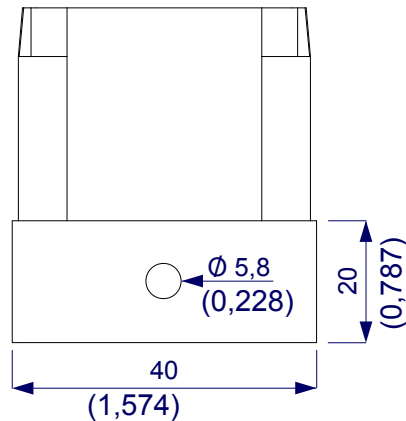
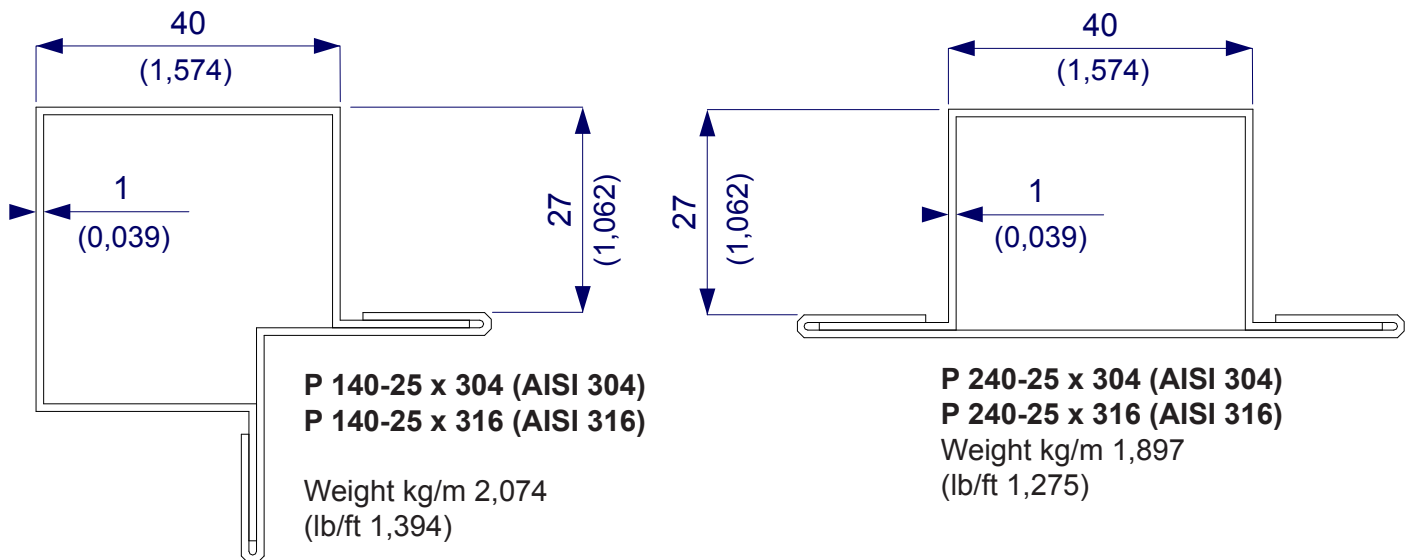
The major fields of demand of our stainless steel profiles are chemic, oil-bearing, naval, industrial, food and other specific applications.



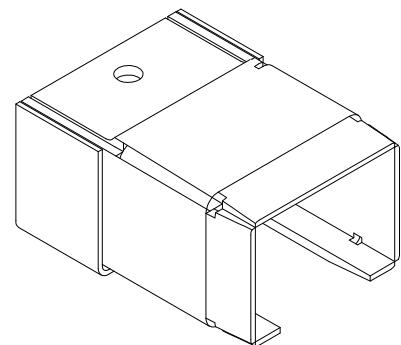
AISI 304
AISI 316



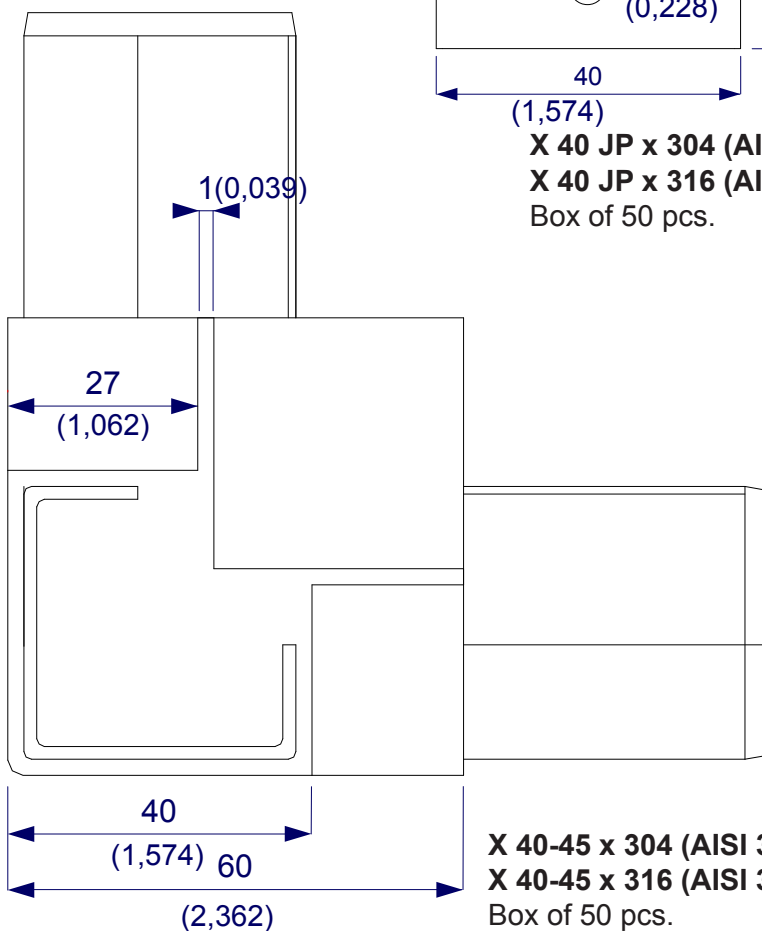
1° Square profile (section **40** panel **25** mm)



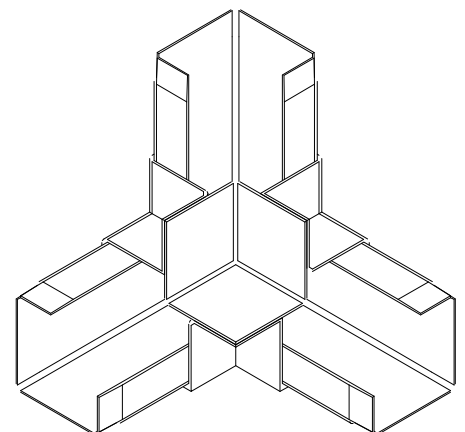
X 40 JP x 304 (AISI 304)
X 40 JP x 316 (AISI 316)
Box of 50 pcs.



(NOT IN SCALE)



X 40-45 x 304 (AISI 304)
X 40-45 x 316 (AISI 316)
Box of 50 pcs.



(NOT IN SCALE)

2° Square profile (section **50** panel **45** mm)

