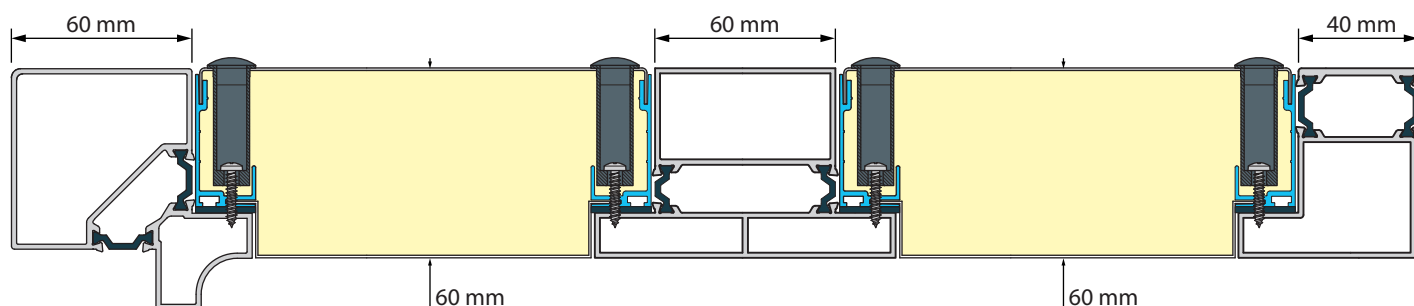
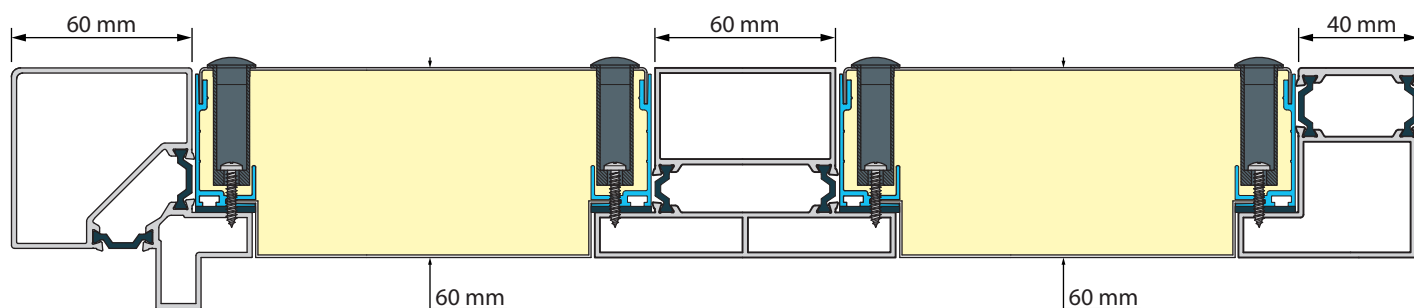
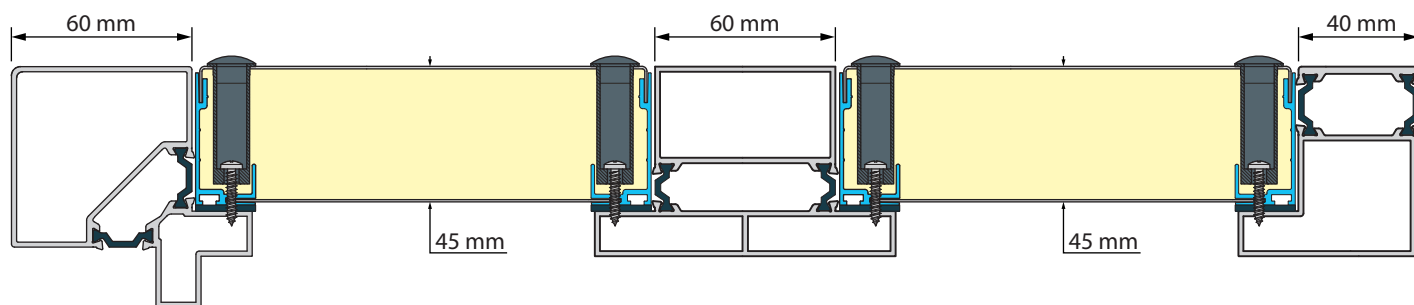


New TT60 / TTA60 T2/TB2 thermal break system

Panel thickness 45-60 mm
External dimension 60 mm



TESTED!

D1

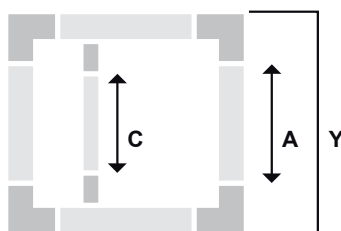
L1

T2

TB2

DIN EN 1886

Cutting conditions of the profiles



$$A = Y - 160 \text{ mm} / 6.24''$$

$$C = Y - 160 \text{ mm} / 6.24''$$

The formulas are valid for
all sides of the module
Y = external dimension



Industrie Service

Summary Zusammenfassung

The tests of the mechanical performance of the model box
model: APSTT 60-45
manufacturer/supplier: APS Arosio SPA
according to DIN EN 1886 (07/2009) were closed with the following results:

Die Prüfungen der mechanischen Eigenschaften der Musterbox
Typ: APSTT 60-45
Hersteller/Lieferer: APS Arosio SPA
nach DIN EN 1886 (07/2009) wurden mit folgendem Ergebnis abgeschlossen:

1. Thermal transmittance Wärmeverluste über Gehäusewände

	Data of the manufacturer Herstellerangaben	Test results Messwerte
Thermal transmittance U Wärmedurchgangskoeffizient U	- W/m ² K	0.6 W/m ² K
Classification of the casing Gehäuseklasse	-	T2

2. Thermal bridging of the casing Wärmebrücken des Gehäuses

	Data of the manufacturer Herstellerangaben	Test results Messwerte
Thermal bridging factor k _b Wärmebrückenfaktor k _b	-	0.60
Classification of the casing Gehäuseklasse	-	TB2

3. Acoustic insulation of the casing Einfügungsdämmmaß des Gehäuses

Octave bands Frequenzband	Data of the manufacturer Herstellerangaben	Test results Messwerte
125 Hz	- dB	15.5 dB
250 Hz	- dB	16.2 dB
500 Hz	- dB	18.3 dB
1000 Hz	- dB	15.7 dB
2000 Hz	- dB	19.8 dB
4000 Hz	- dB	34.3 dB
8000 Hz	- dB	42.7 dB



Industrie Service

Summary Zusammenfassung

4. Mechanical strength of casing Durchbiegung des Gehäuses

	Data of the manufacturer Herstellerangaben	Test results Messwerte
Deflection of the casing per meter at -1000 Pa Durchbiegung des Gehäuses pro Meter bei -1000 Pa	- mm/m	1.2 mm/m
Deflection of the casing per meter at +1000 Pa Durchbiegung des Gehäuses pro Meter bei +1000 Pa	- mm/m	1.1 mm/m
Permanent deflection of the casing at ±2500 Pa Bleibende Verformung des Gehäuses bei ±2500 Pa	-	none keine
Classification of the casing Gehäuseklasse	-	D1 (M)

5. Casing air leakage (after determination of the strength of the casing) Luftdichtheit des Gehäuses (nach der Bestimmung der Durchbiegung des Gehäuses)

	Data of the manufacturer Herstellerangaben	Test results Messwerte
Air leakage rate at -400 Pa Leckflußrate bei -400 Pa	- l/(sm ²)	0.04 l/(sm ²)
Classification of the leakage Dichtheitsklasse	-	L1 (M)
Air leakage rate at +700 Pa Leckflußrate bei +700 Pa	- l/(sm ²)	0.10 l/(sm ²)
Classification of the leakage Dichtheitsklasse	-	L1 (M)



Industrie Service

Summary Zusammenfassung

6. Filter bypass leakage Filter-Bypass-Leckage

	Data of the manufacturer Herstellerangaben	Test results Messwerte
		-400 Pa +400 Pa
Filter bypass leakage Filter-Bypass-Leckage	-	*1 m ³ /h *1 m ³ /h
Percent leakage Prozentuale Leckage	-	*1 % *1 %
Usable filter class Verwendbare Filterklasse	-	*1 *1

Center of Competence for Refrigeration and Air-Conditioning

Chief test officer
Center of Competence
für Kälte und Klimatechnik

Leiter Prüfbereich

signed / gezeichnet
i.A. Thomas Bichler

Expert

Der Sachverständige

signed / gezeichnet
Igor Gagula

This test report was drawn up automatically and transferred electronically.
Dieser Prüfbericht wurde maschinell erstellt und elektronisch übermittelt.

The list of the used measuring instruments is deposited at the laboratory.
Die Auflistung der verwendeten Messmittel ist bei der Prüfstelle hinterlegt.

Annex:
Anlagen:

- Annex A1 - A2 Temperatures on the surface of the model box
Anlage A1 - A2 Oberflächentemperaturen an der Musterbox
- Annex B Sketch of the measuring points of the acoustical insulation measurement
Anlage B Skizze der Messpunkte der Messung des Einfügungsdämpfungsmaßes
- Annex C1 - C10 Details of the construction of the unit (pictures)
Anlage C1 - C10 Details des Gehäuseaufbaus (Bilder)
- Annex D Details of the construction of the unit (sketch)
Anlage D Details des Gehäuseaufbaus (Zeichnung)

Nylon accessories

TECHNICAL DATA

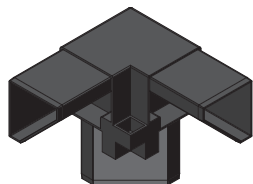
Panel thickness: **45-60 mm / 1.76-2.34"**

Material: **PA6 + GF 20%**

Color: **Black**

APSAFG6045

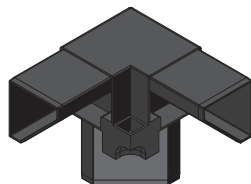
Main corner



Weight: **200 g**

APSAFGA6045

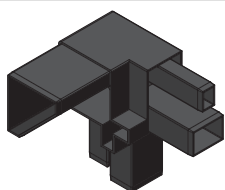
Main rounded corner



Weight: **205 g**

APSAG60-45

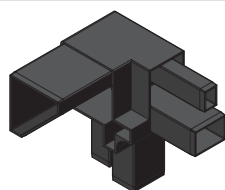
Joining corner



Weight: **160 g**

APSAGA6045

Joining rounded corner



Weight: **162 g**

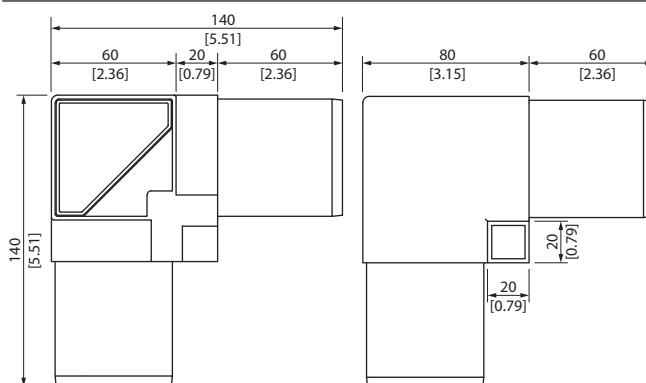
GFGTT60-45

Omega joint

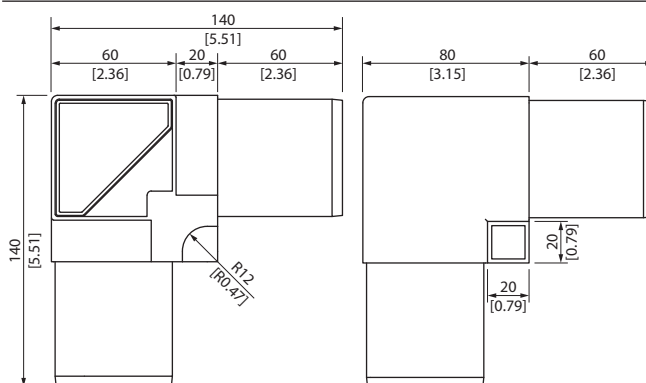


Weight: **38 g**

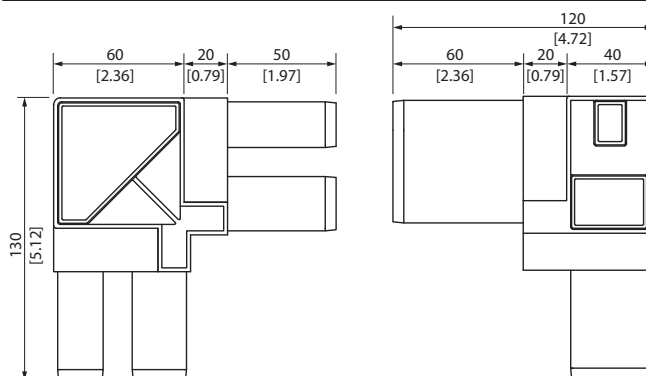
APSAFG6045 Main corner



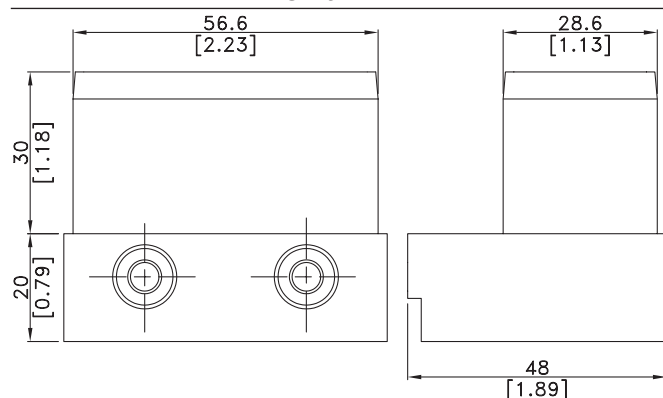
APSAFGA6045 Main rounded corner



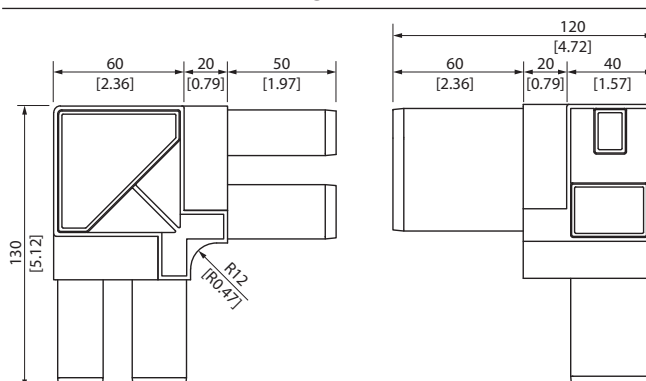
APSAG60-45 Joining corner



GFGTT60-45 Omega joint



APSAGA6045 Joining rounded corner



Thermal break aluminium profiles

TECHNICAL DATA

Material Extruded aluminium EN AW 6060

APSTT16045 Main profile

External dimension: 60 mm	
Panel thickness: 45-60 mm	
Weight: 1.870 kg/m	

APSTT26045 Omega profile

External dimension: 60 mm	
Panel thickness: 45-60 mm	
Weight: 2.145 kg/m	

Unit connections

TH5009-000 Unit connection with screws

External dimension: 40 mm	
Material: EN AB 46100	
Weight: 44 g	

Panel blocking

B50FGC0000 Panel blocking

Material: PA6 + GF 20%	
Weight: 20 g	
Color: Black	

Bushes

BFG.40.000 Nylon bush with plug

Panel thickness: 40 mm	
Material: PA6 + GF 20%	
Weight: -	

Treatment

T6

Color

RAL

APSTTA6045 Main profile internally rounded

External dimension: 60 mm	
Panel thickness: 45-60 mm	
Weight: 1.844 kg/m	

APSTT36045 Joining profile

External dimension: 60 mm	
Panel thickness: 45-60 mm	
Weight: 1.415 kg/m	

Nylon handles

MFG140-034 Nylon handle with external lock

Material: PA6 20% GF	
Finish: Natural	
Color: RAL	

MFG140-035 Nylon handle with external lock with key

Material: PA6 20% GF	
Finish: Natural	
Color: RAL	

Gasket

GUAR.020X4 Joining self-sticking gasket

Dimension: 20x4 mm	
Material: Foamed PVC	

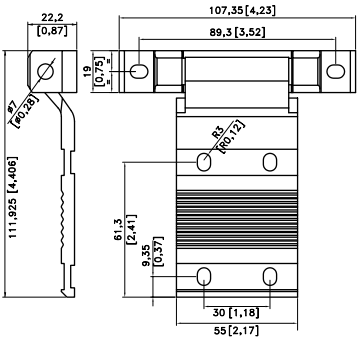
Extruded aluminium hinges model 110

TECHNICAL DATA

Material	EN AW 6060
Finish	Painted / Anodized
Color	Black

CE110-0300 Aluminium hinge

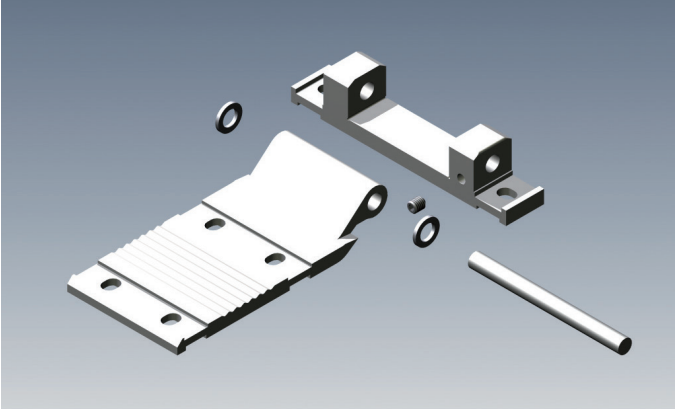




Technical drawing of the CE110-0300 aluminium hinge showing dimensions in mm:

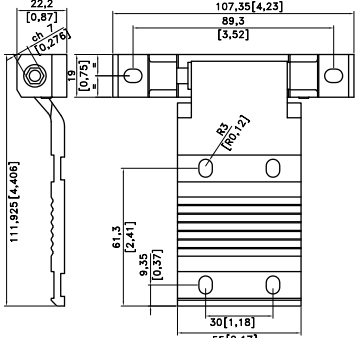
- 22,2 [0,87]
- 107,35 [4,23]
- 89,3 [3,52]
- 19 [0,75]
- 111,925 [4,406]
- 61,3 [2,41]
- 9,35 [0,37]
- 30 [1,18]
- 55 [2,17]
- 85 [3,35]
- 100 [3,94]

Weight: **151 g**



CE110R-D03 Adjustable aluminium hinge right assembling

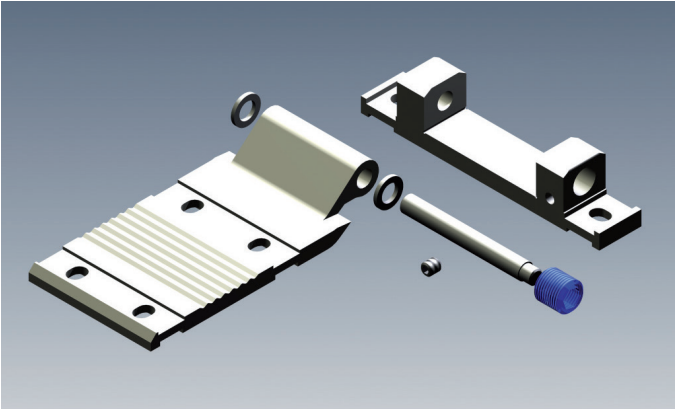




Technical drawing of the CE110R-D03 adjustable aluminium hinge right assembling showing dimensions in mm:

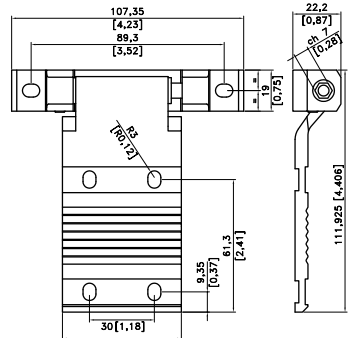
- 22,2 [0,87]
- 107,35 [4,23]
- 89,3 [3,52]
- 19 [0,75]
- 111,925 [4,406]
- 61,3 [2,41]
- 9,35 [0,37]
- 30 [1,18]
- 55 [2,17]
- 85 [3,35]
- 100 [3,94]

Weight: **155 g**



CE110R-S03 Adjustable aluminium hinge left assembling

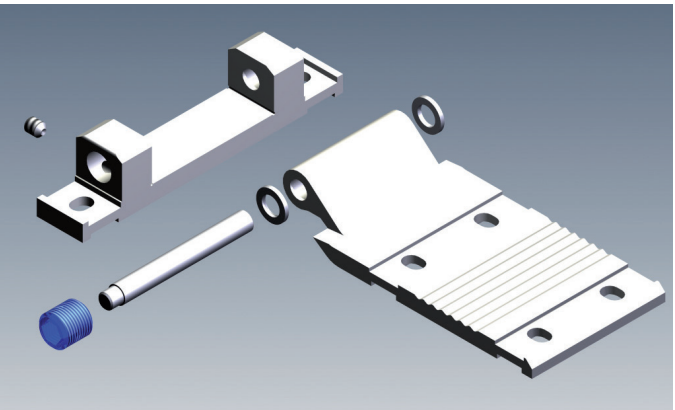




Technical drawing of the CE110R-S03 adjustable aluminium hinge left assembling showing dimensions in mm:

- 107,35 [4,23]
- 89,3 [3,52]
- 22,2 [0,87]
- 19 [0,75]
- 111,925 [4,406]
- 61,3 [2,41]
- 9,35 [0,37]
- 30 [1,18]
- 55 [2,17]
- 85 [3,35]
- 100 [3,94]

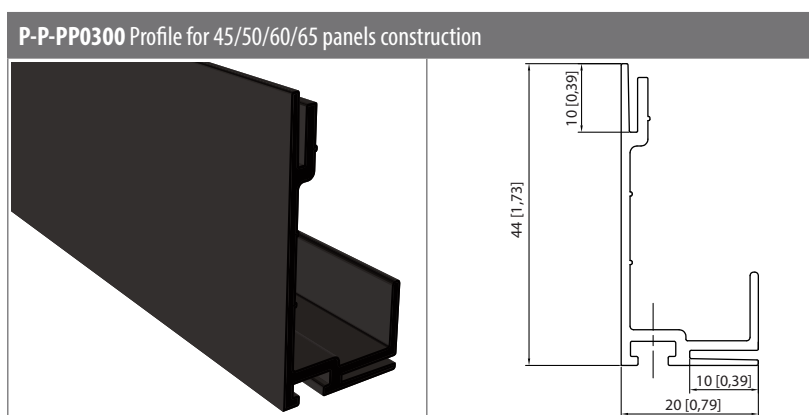
Weight: **155 g**



New system for the construction of panels - "L" version

Nuovo sistema per la costruzione di pannelli - versione a "L"

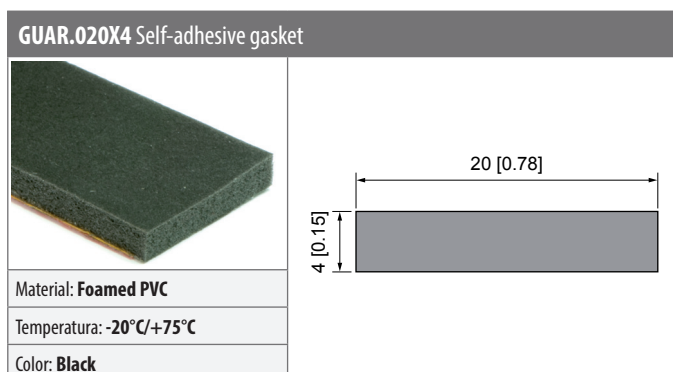
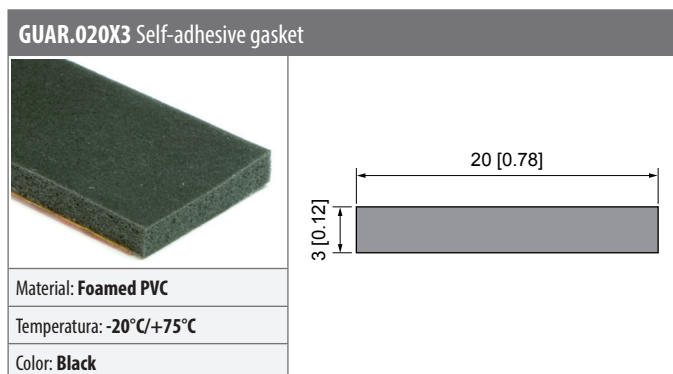
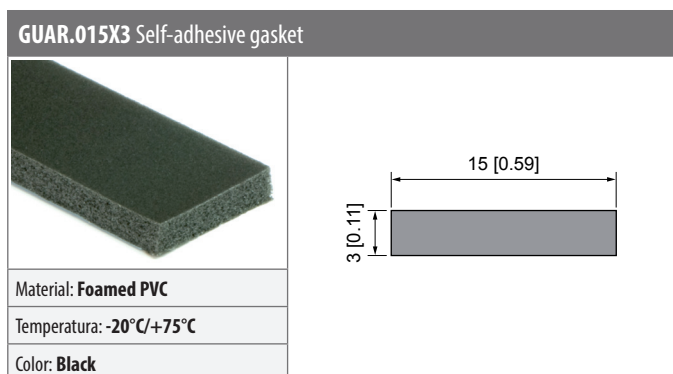
1 Start with the basic element - Parti dall'elemento base



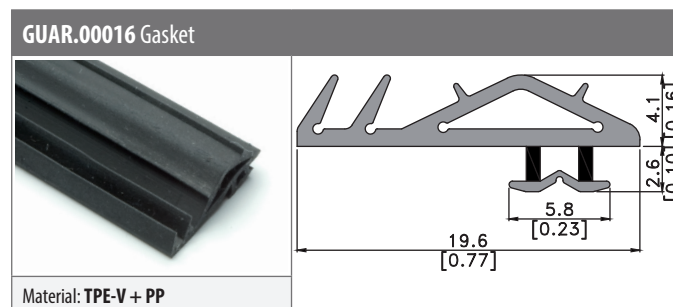
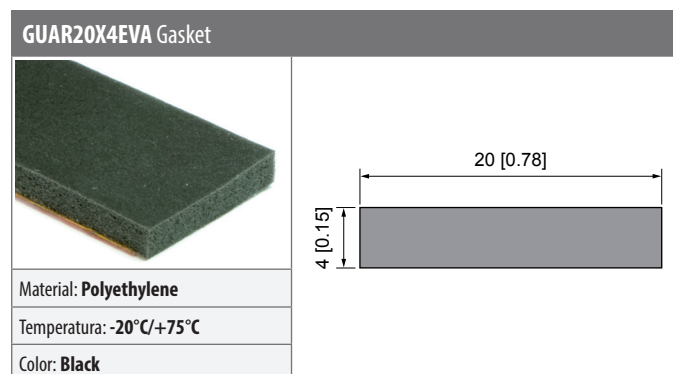
Material Materiale	PP TV20
Certification Certificazione	VDI 6022 - ISO 846
Maximum temperature Temperatura massima	100°C
Color Colore	Black / Nero

2 Select the gasket - Seleziona la guarnizione

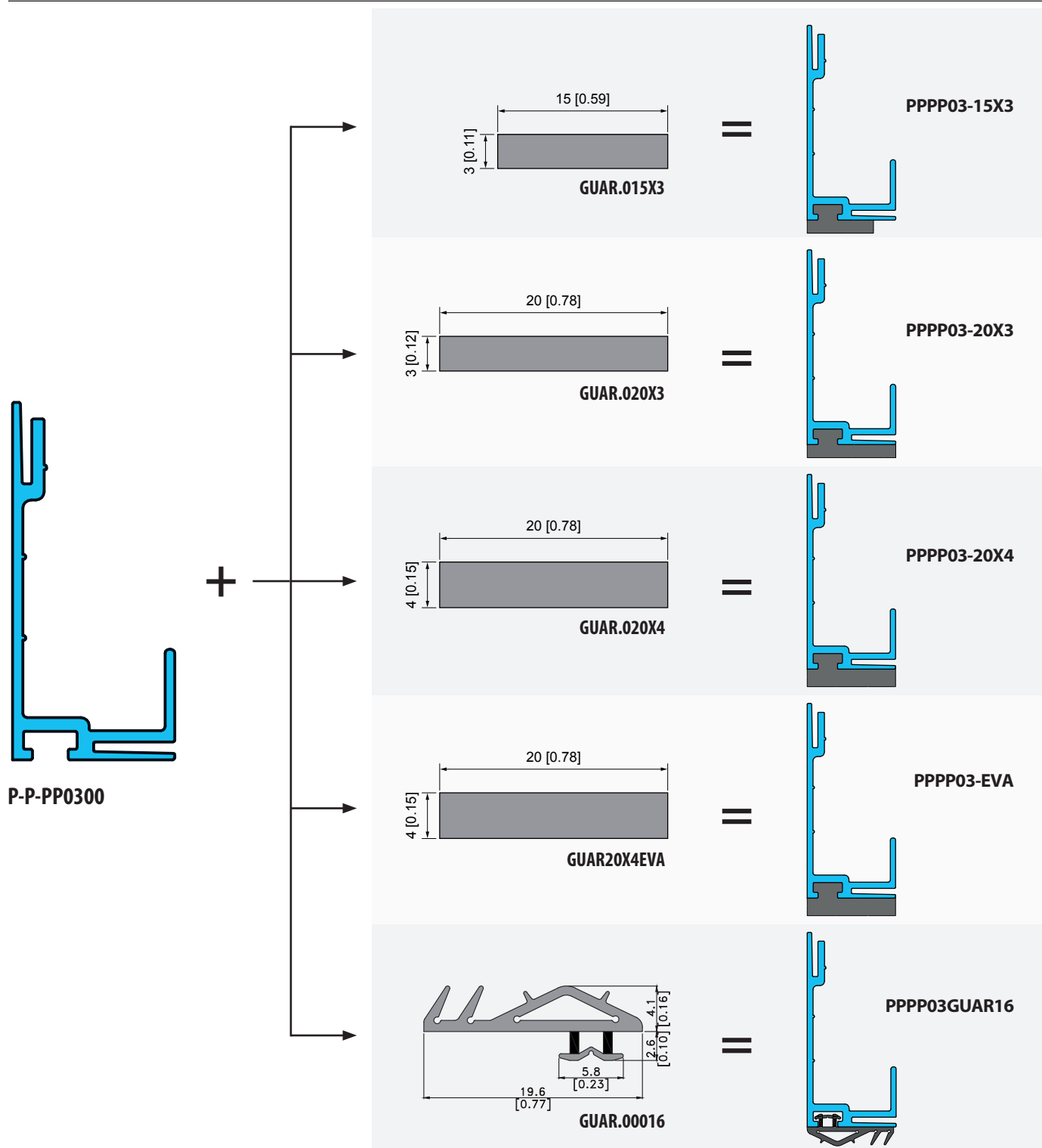
Fixed panels - Pannelli fissi



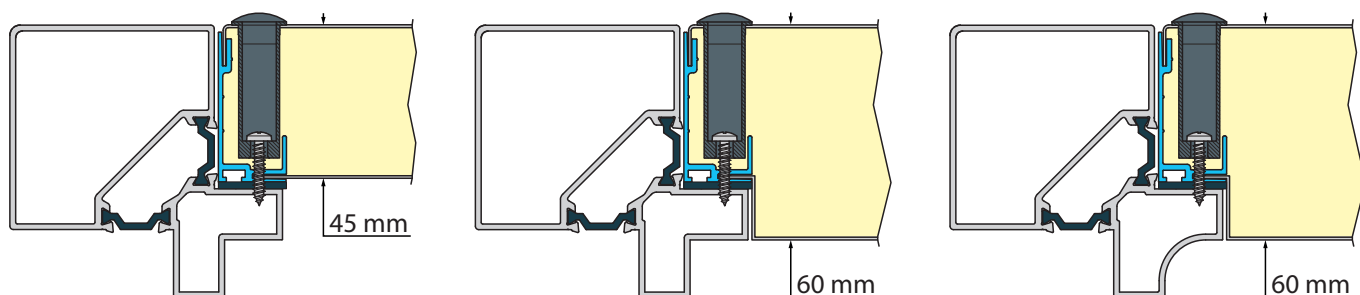
Doors / Removable panels - Porte / Pannelli removibili



3 Create the combination you desire - Crea la combinazione desiderata



4 Make STD / TT simple and double wall panels (by removing a fold) Realizza pannelli STD/TT semplici e a doppia parete (eliminando una piega)



Supply options - Opzioni di fornitura

1. Bars in standard lenght - Barre a lunghezza standard

6 m lenght - Lunghezza 6m

6 m lenght + assembled gasket - Lunghezza 6m + guarnizione assemblata

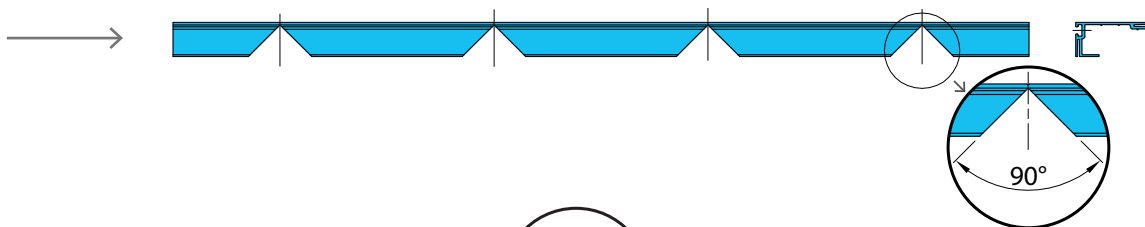
Codes - Codici

Profile / Profilo	Gasket / Guarnizione	To order / Per ordinare
P-P-PP0300	GUAR.015X3	PPPP03-15X3
P-P-PP0300	GUAR.020X3	PPPP03-20X3
P-P-PP0300	GUAR.020X4	PPPP03-20X4
P-P-PP0300	GUAR20X4EVA	PPPP03-EVA
P-P-PP0300	GUAR.00016	PPPP03GUAR16

2. Customized cut (with or without gasket) - Tagli a misura (con o senza guarnizioni)

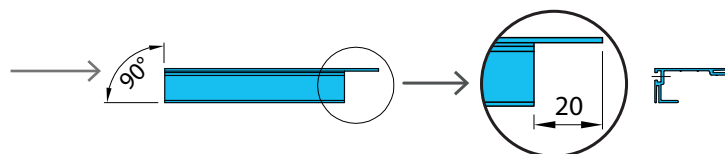
A) Notched profile

Profilo scantonato



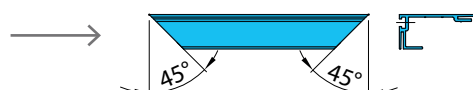
B) 90° cut profile

Profilo tagliato a 90°



C) 45° cut profile

Profilo tagliato a 45°



3. Standard or double wall panel assembled - Pannello standard o doppia parete assemblato

A) P-P-0300 profile + galvanized sheet iron/ prepainted + filling (polyurethane or rockwool)

Profilo P-P-0300 + lamiera zincata/preverniciata + riempitivo (poliuretano o lana di roccia)

B) P-P-0300 profile + assembled gasket + galvanized sheet prepainted + filling (polyurethane or rockwool)

Profilo P-P-0300 + guarnizione assemblata + lamiera zincata/preverniciata + riempitivo (poliuretano o lana di roccia)