

TECHNICAL SPECIFICATION IP65/EMI-EMC Gaskets

Description

Market requirements permit us to offer different gaskets that cover the double function of watertight seals and electromagnetic interference shielding. An initial demand was for a gasket that was of a self-blocking type to be installed directly on plate moulding. Gaskets with codes 30.0019-00, 30.10161-00, 30.0058-00 and 30.0061-00, are those we offer for this type of application.

Applications

Utilized for electric and telecommunications, etc. locker shielding, where there is a watertight seal required as well.

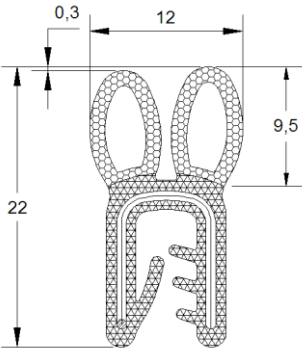
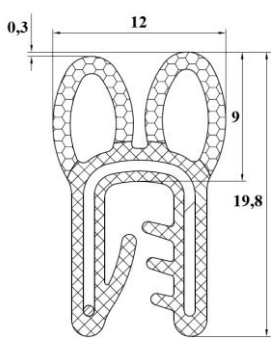
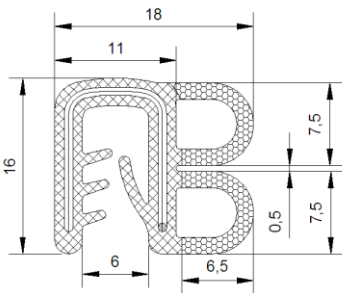
Provision

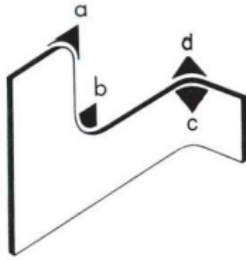
In spools, in pieces cut to size or in thermally welded frames as per client plans, ready for installation.

Properties

- **Periodicity of change:** it cannot be definitively defined; it depends on the environmental influences like heat, coldness, UV radiation and so on. It depends also on their intensity and frequency. It has to be replaced if the properties can no longer be warranted.
- **Storage duration:** The guidance for storage, maintenance and cleaning is defined in DIN 7716 ISO 5285. The properties and the stability of the properties depend also on the environmental influences.
- **Recommended compression:** The compression of sealing edge protection profile should have a maximum of 50% as otherwise the compactness, and the restoring force are affected. In practice, the profile should be compressed 30-40%.

Section Type

D.SO.22.11,2	D.SO.19,8,9	L.SO.16.12,5
		

Minimum Bending Radius			
D.SO.22.11,2	D.SO.19,8,9	L.SO.16.12,5	
a=60	a=60	a=60	
b=150	b=150	b=60	
c=60	c=60	c=100	
d=60	d=60	d=60	

Take note that the **minimum bending radii** given may be used only as guide lines since, depending on the material, at full or limited utilization of the clamping area indicated. Deviations may be experienced.

Tolerances of the product are defined according to "IO.85.1 Rev.0 - Documento Tecnico di Transcodifica".

Type of gasket selection

Profile D.SO.22.11,2		
IP65 sealing  40.0731: Article code for continuous profile	IP65 sealing + EMI shielding  30.0019: Article code for continuous profile	
Profile D.SO.19,8,9		
IP65 sealing  40.10191: Article code for continuous profile	IP65 sealing + EMI shielding  30.10162: Article code for continuous profile	
Profile L.SO.16.12,5		
IP65 sealing  40.0732: Article cod for continuous profile	IP65 sealing + EMI shielding  30.0058: Article cod for continuous profile	IP65 sealing + EMI shielding  30.0061: Article cod for continuous profile

Materials

Material	Support: soft EPDM Gasket: soft EPDM sponge rubber
Hardness	Support: 60 +/-5 SHORE A Gasket: density: 0.55 +/- 0.05 g/cm3
Colour	Black
Clamping range	1.0 – 3.0 mm
Metal carrier	wire carrier 32 x 0.76 mm
Operation temperature	to - 40 °C from + 100 °C
UV- stability:	Good
Resistance against:	Alcohols, ozone, weathering, lyes and low acids.
Non-resistant against	carbon hydrochlorides, concentrated acids, aromatics carbons, oil and fuels.
Factory tolerance	Support: DIN-ISO 3302-1 E3 Gasket: DIN-ISO 3302-1 E3 Length: DIN-ISO 3302-1 L3
Flammability Rating	Not applicable. Special request the rubber part can be supplied in according to UL94 HB or EN45545-2 standards.

1. Fabric Type

Fabric type	STATIC CLEAN
Code	SC
Base material	Polyester fabric
Test Report	RP6900
Coating	Nickel

	Magnetic field (dB)				Electric field (dB)			
Frequency (MHz)	3	10	20	30	2	10	20	30
1 layer	15	20	30	40	105	65	62	65

	Electric field and plane wave (dB)							Plane Wave (dB)					
Frequency (MHz)	200	400	500	600	700	800	900	1000	3000	5000	10000	15000	18000
1 layer	55	65	60	62	60	70	60	60	62	63	53	53	55

 Protezioni Interferenze Elettromagnetiche EMI - RFI - ESD - TEMPEST		COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = AS/EN/JISQ 9100 =	COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001 =	Specifica: SOL-03 Rev. 6 23/04/2025 Pag. 5/5
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Type of supply

If the length is indicated it means that the gasket is supplied in pieces, if the length is not present it means that the gasket is supplied in linear meters.

Particular supply can also be requested: thermally welded frames, ready for installation (minimum development for o-rings gaskets 700-800 mm, minimum size for frame gasket 170 mm)