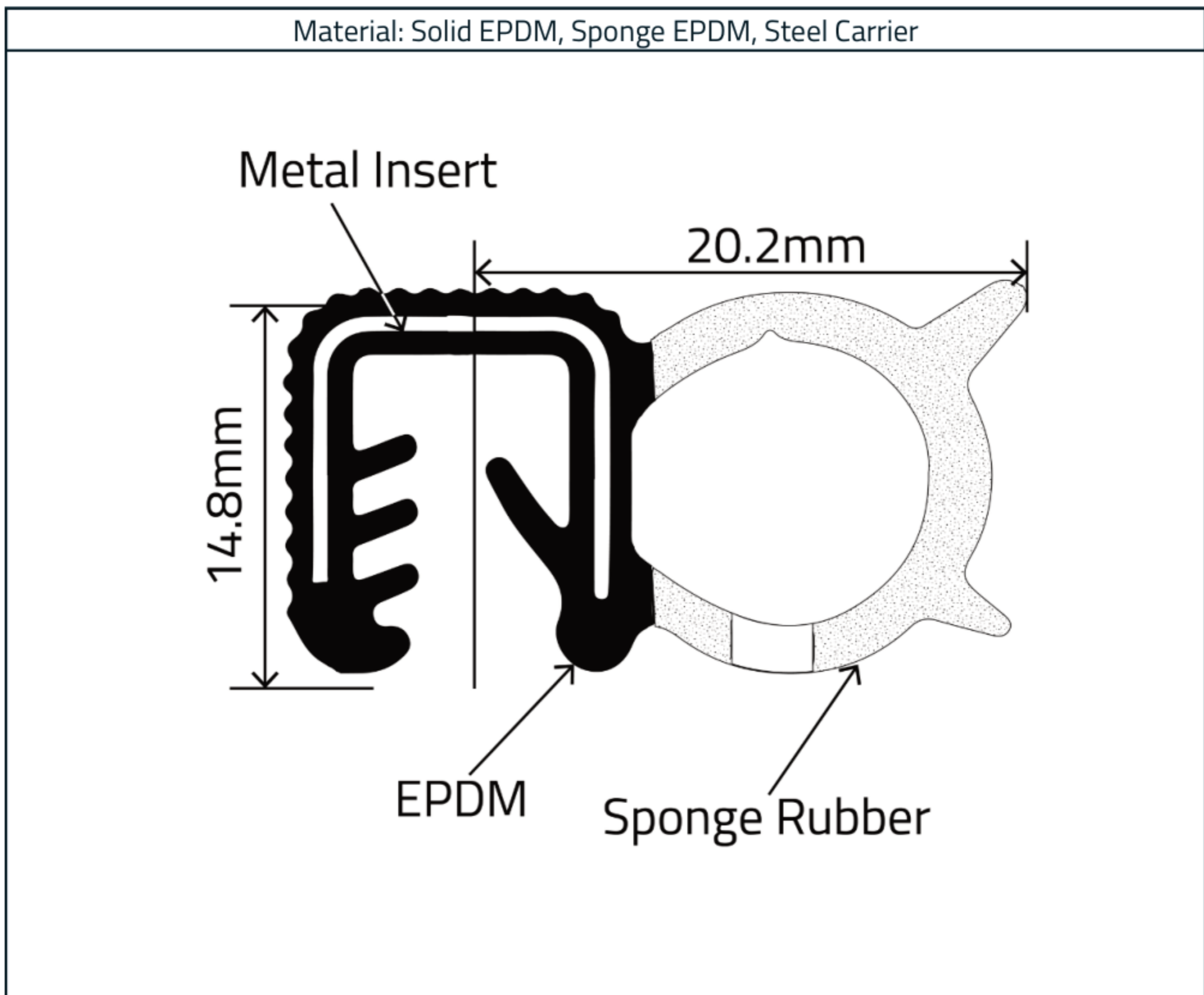


## Self Grip Door Seal 20.2mm x 14.8mm

Product Code: RCDS20.2X14.8K



### Measurements:

Height	Width	To Fit Panel
14.8mm	20.2mm	4mm - 6mm

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### Material Specification - Solid Rubber Body

Our self grip door seal profiles are manufactured using a combination of solid rubber and sponge rubber with a metal carrier. These profiles provide dual functionality; they provide a sealing function while also covering sharp or unfinished edges. The hollow sponge rubber sections are extremely flexible and are suitable for sealing doors, hatches and numerous other applications.

### Recommended Compression

The compression of our door seal profiles should not exceed a maximum of 50%, as otherwise the compactness and the restoring force are affected. In practice, the profile should ideally be compressed between 30-40%.

### Material Specification - Solid EPDM

Test Method	Values
Hardness (IRHD) 70±5	69
Tensile Strength (MPa) > 10.5	10.5
Elongation at Break (%) > 200	315
Tear Strength (Kn/M) > 11	12
Air aged 70 hrs/ 100c	
Hardness Change ( IRHD) <10	2
Tensile Change (%) > -15	5
Elongation Change (%) >-40	0
Air aged 10 days/ 70c	
Hardness Change( IRHD) +/-5	2
Tensile Change ( %) > -25	-1
Elongation Change (%) > -25	7
Compression Set 22hrs / 70c ( %) <25	7
Ozone resistance, 20% elongation at 40c, 100pphm/98hrs/ -10c <12	6
Cold bend test at -30c	No Cracks
Migration resistance ( mg) <5	0.02
Staining Resistance	No Stain
UV Stability	No Cracks

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### Material Specification - Sponge EPDM

Test Method	Specification	Typical Value
Density	0.45 / 0.55g/cm <sup>3</sup>	0.5g/cm <sup>3</sup>
B2		
Compression Set 22hrs @ R.T	50% Deflection	
	25% Max	21%
C1		
Weather Resistance	No Cracks	No Cracks
Compression Deflection	25% Deflection	
	7 PSI ± 2	6 PSI
Heat Aging 7 Days @ 70°C		
Deflection Change	± 30%	+15%

### Compression recommended for Self-Gripping sealing edge profiles

The compression of our 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 ideally be compressed between 30-40%.

### Formability of sponge rubber profiles

Essential for the effectiveness of the seal and its integrity is the enduring deformation. The most common characteristic is the Compression Set. The Compression Set of a material is the permanent deformation remaining after removal of a force that was applied to it. To determine this dimension, a cylindrical test body is compressed 25% and then stored for a selected time at a selected temperature. Thirty minutes after release, the height is measured at room temperature again, and from the result, the enduring deformation is identified.

A Compression Set result of 0 means that the test body has reached its original height again (not possible in reality), a Compression Set result of 100% shows that the test body has no reset device; after the test the test body would stay completely deformed. Why is the Compression Set an important parameter? For example; a flange gasket is compressed to a specified thickness and exerts a pressure on the surface of the flange. After a while this pressure reduces because the rubber flexibly deforms. If this flexibility characteristic – the Compression Set – is too high, the press capacity and the sealing effect decrease and the seal will leak.



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## DOOR SEALS – TOP SEALS – SIDE SEALS

### General Manufacturing tolerances

Soft rubber DIN ISO 3302-1 E2 Sponge rubber DIN ISO 3302-1 E3 Soft PVC DIN 16941 3B  
Custom lengths DIN ISO 3302-1 L3 / 16941 4B

Sealing profiles as a combination between PVC edge trim and sponge rubber can have up to two glued joints. Other colours and qualities such as food compatible, flame resistant or selfextinguishing qualities are available upon request, made to special order only.

### Ethylene-Propylene-Diene Monomer (EPDM)

Synthetic Rubber, terpolymers (EPDM polymerized with sulphur). Temperature range: -50 to +120°C dry conditions; with water and steam up to 130°C. Advantages: Excellent weather resistance, as well as to ageing, ozone, chemicals, hot water and steam; good resistance to polar fluids such as acetone, methanol etc., outstanding electrical insulation properties, low steam permeability, good thermal resistance, extremely low brittleness temperature. Disadvantages: Low resistance to aliphatic and aromatic hydrocarbons (mineral oil, petrol, fuels); flammable.