

## FLAMRO KSL Combi Seal

EI 90 / 120

ETA-16/0320

### Special Benefits

- Suitable for use in wet or dry areas
- Easy installation and retrofitting
- High flexibility

### Permitted Configuration

- Electric cables max. Ø 80 mm
- Electric installation pipes max. Ø 63 mm individual diameter
- Bundles of electric installation pipes max. Ø 125 mm
- Synthetic rubber insulated copper pipes max. Ø 88.9 mm
- Combustible wastewater pipes (PE, PP, PVC) max. Ø ≤ 160 mm
- Copper pipes max. Ø 89 mm
- Steel pipes max. Ø 160 mm
- Multilayer composite pipes Geberit Mepla max. Ø 75 mm

### Form of Delivery

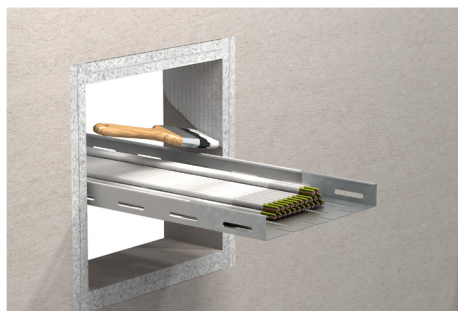
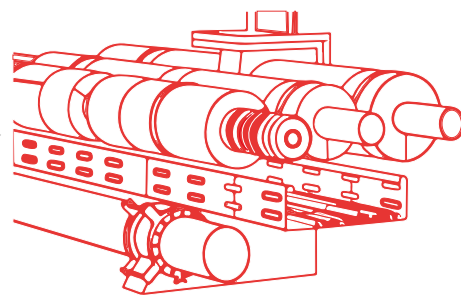
| Article Description                                      | Contents / Dimensions            | Art. No.                         |
|--|----------------------------------|----------------------------------|
| FLAMRO Variant N II A Fire Protection Collar             | see page 54                      | Dependent on pipe diameter       |
| FLAMRO BMS Putty   | 1 kg<br>5 kg<br>12.5 kg<br>25 kg | 10010<br>10500<br>10125<br>10250 |
| FLAMRO BML   | 12.5 kg<br>25 kg                 | 40125<br>40250                   |
| FLAMRO BSL Fire Protection Plate,<br>single-side coating | D = 50 mm, 0.625 m <sup>2</sup>  | 50050                            |
| FLAMRO Variant N-RM<br>self-adhesive wrap                | 10000 x 100 x 1,5 mm             | 15015                            |



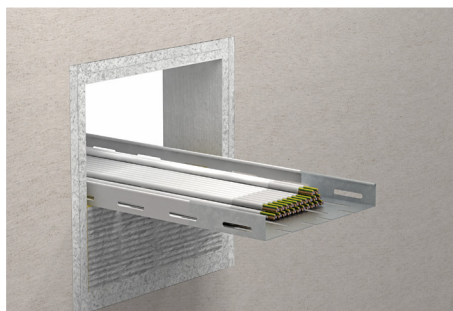
How much material is required?

## Description

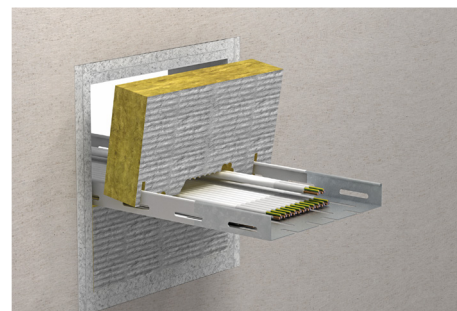
Double-panel seal (soft seal) for sealing individual or bundled electric lines and cables and electrical installation pipes.



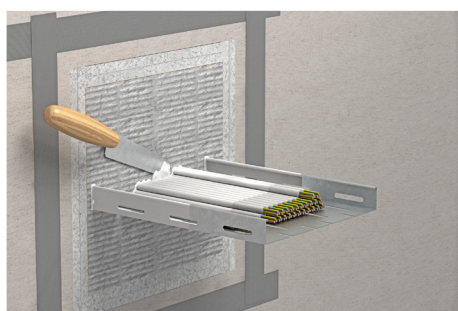
The component opening soffits must first be cleaned. The soffit must be coated with FLAMRO BML Ablation Coating. The dry layer thickness must be at least 2 mm.



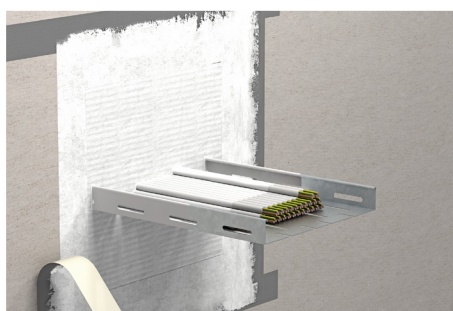
The inserted cables and the cable tray must be coated on both sides with FLAMRO BMA Ablation Coating.



The openings must be sealed using fire protection plates cut to size and placed in two layers. Before the plates are fitted into the opening, the surrounding outer edges of the plates must be coated for bonding using FLAMRO BML Ablation Coating. The coating thickness must be at least 1 mm.



Once the component opening has been sealed, all interstices and joints must be filled on the outer side using FLAMRO BMS Ablation Coating, ensuring that the surface is even.



A strip of approx. 20 mm width of ablation coating must then be coated on the outside around the inserted installations so that the dry layer thickness is at least 1 mm.



The seal must then be permanently labelled with a sign. The identification plate must be attached to the component next to the seal and may be obtained from FLAMRO.

## Installation Data

|                                | Rigid wall     | Solid floors   | Lightweight partition walls |
|--------------------------------|----------------|----------------|-----------------------------|
| Wall/Floor thickness           | min. 100 mm    | min. 150 mm    | min. 94 mm                  |
| Max. seal dimensions (W x H/L) | 1100 x 2200 mm | 1000 x 2600 mm | 1100 x 2200 mm              |
| Min. Seal thickness            | 100 mm         | 150 mm         | 100 mm                      |
| Coating length cable           | 150 mm         | 150 mm         | 150 mm                      |