

## Application

**Flexible walls:** The wall must have a minimum thickness of 100 mm and comprise 50mm steel or timber studs. On both faces, have a minimum of 2 layers of 12.5 mm thick boards.

**Rigid walls:** The wall must have a minimum thickness of 100 mm and comprise concrete, aerated concrete, blockwork or masonry.

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

Maximum seal size of 200 x 200 mm for FS709.  
Maximum seal size of 500mm wide by 100mm high for FS702.  
Minimum annulus for FS702 is 10mm.

The total amount of cross sections of services shall not exceed 60% of the penetration area.

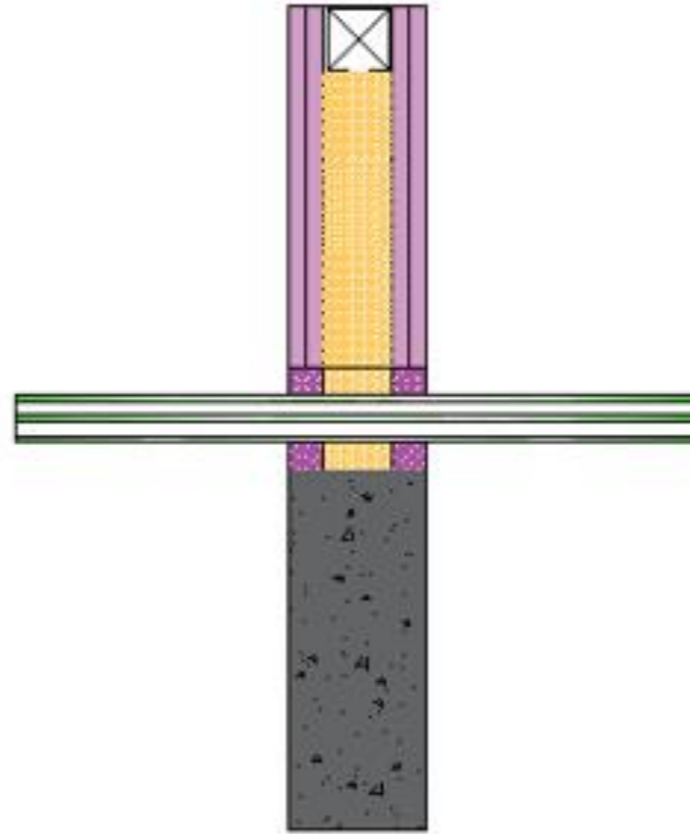
**Nullifire FS709 HP Intumescent Sealant** or **FS702 Intumastic sealant** are applied to seal around the services on both faces at the interface between seal and supporting construction.

- All surfaces must be clean, free from dirt, grease and other contamination.
- Insert required backing material (see table on TDS), oversized to opening to ensure stability, to provide correct depth of seal.
- Using a suitable tool, cut nozzle of cartridge to bead size and angle required.
- Gun sealant into gap to required depth by applying an even pressure to the trigger.
- Work and tool to a smooth finish immediately with a wet profiling tool or spatula.

- Nullifire FI025** Measure around service.
- Unroll product to the measured length plus 50 mm.
- Apply around the services ensuring a tight abutment to the primary seal.
- Locate the overlap to the centre of the upper face.
- Seal 200 mm joint using minimum 30 micron aluminium foil tape.
- Cut 0.9mm gauge lacing wire to the correct circumference plus 100 mm.
- Apply 0.9mm gauge lacing wire around the service to the centre line of FI025 Intuflex (±50 mm). Wrap around and twist the two ends together to the underside of the service, lightly compressing FI025 Intuflex.
- Trim lacing wire ends to ensure no sharp edges are left.
- Any gaps between the primary fire seal and FI025 should be sealed using FS702 Intumastic.
- If zero fibre migration is needed, an FS702 Intumastic seal is required to the primary seal and a fully taped seal using aluminium foil tape will be required to the exposed end.

### Important Information:

- Safety data sheet must be read and understood before use
- FI025 LI = (Local Interrupted)
- We are advised that an open ended 25mm sleeve, extending 200mm from each side of the seal, will not cause the derating of cables. The service company should be informed of the addition to their service thus can consider any potential adverse effects. The Length of the insulation may not be increased above 200mm to each side of the partition (Without consultation) as this is known to cause cable derating.



Product	Service	Max. Opening	Seal structure	Classification
		mm		
FS709	Single electrical and telecoms cables up to 21mm diameter (including bundles up to 40 mm diameter)	600 x 140	Nullifire FS709, 25mm deep on each face, backed with 50 mm thick tightly packed stone wool (33 kg/m3)	E 120, I 90
FS709	Bundles of up to 10 electrical cables, up to 80 mm diameter	600 x 140	Nullifire FS709, 25mm deep on each face, backed with 50 mm thick tightly packed stone wool (33 kg/m3)	EI 120, I 60
FS709	Non-sheathed cables up to 24 mm diameter	600 x 140	Nullifire FS709, 25mm deep on each face, backed with 50 mm thick tightly packed stone wool (33 kg/m3)	E 120, I 45
FS702	Single or bundles ≤ Ø 100mm fitted at any position within the aperture, bundle consisting of max. 2 no. C2 + 2 no. B cable	10x 25	Nullifire FS702, 25mm deep on each face, , backed with 50 mm thick tightly packed stone wool (33 kg/m3)	E 60, I 60
FS702	Single or bundles ≤ Ø 100mm fitted at any position within the aperture, bundle consisting of max. 2 no. D1 + 2 no. B cable	10x 25	Nullifire FS702, 25mm deep on each face, , backed with 50 mm thick tightly packed stone wool (33 kg/m3). Also 25mm thick x 200mm long FI025 Intuflex - LI	EI 120
FS702	Single or bundles ≤ Ø 100mm fitted at any position within the aperture, bundle consisting of max. 10 no. B with or without a cable tray or ladder up to 450mm wide + 2 no. B cable	10x 25	Nullifire FS702, 25mm deep on each face, , backed with 50 mm thick tightly packed stone wool (33 kg/m3)	E 120, I45
FS702	Single or bundles ≤ Ø 100mm fitted at any position within the aperture, bundle consisting of max. 10 no. B with or without a cable tray or ladder up to 450mm wide + 2 no. B cable	10x 25	Nullifire FS702, 25mm deep on each face, , backed with 50 mm thick tightly packed stone wool (33 kg/m3). Also 25mm thick x 200mm long FI025 Intuflex - LI	E 120, I60
FS702	Single or bundles ≤ Ø 100mm fitted at any position within the aperture, bundle consisting of max. 28 no. F telecommunication cables	10x 25	Nullifire FS702, 25mm deep on each face, , backed with 50 mm thick tightly packed stone wool (33 kg/m3). Also 25mm thick x 200mm long FI025 Intuflex - LI	EI 120

\* Consult the ETA for detailed information

## Cables

flexible or rigid wall (≥ 100 mm)

**FS709-DW100-SI-04-FS702-00003**

Tested according to EN 1366-3, classified to EN 13501-2

ETA 20/1314

Date of issue: 01/01/2021

ETA 20/0010

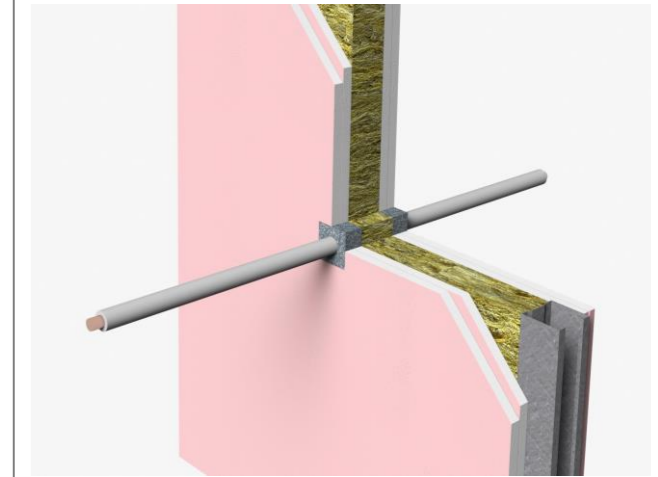
Date of issue: 01/01/2021

Suitable for flexible and rigid walls, the performance of the fire stopping will always be limited to the performance of the surrounding substrates.



### Minimum Distances

Minimum distance to seal 0mm.  
Minimum distance cable to cable (up to 80mm diameter) is 0mm.  
Minimum distance between cable bundles up to 100mm in diameter is 100mm.



*The published fire ratings stated in this document have been achieved by strictly following the instructions set out in the ETA. The use of alternative components or any deviation from these instructions will invalidate the solutions provided in this document. CPG UK Ltd accept no responsibility for the use of Nullifire products or other CPG products in any applications or purposes not authorised or recommended by CPG. Further expert advice should always be sought where such applications are to be considered. This information is provided in good faith and is believed to be correct as of the date of publication based upon tested and certified solutions. The reader must always ensure that they are following the latest published versions of any drawings and instructions. CPG UK Ltd. assumes no liability, expressed or implied, as to the design, architecture, engineering, or workmanship of any project.*

V1 10.08.2023