

# Penetration seals in sandwich panels

Pipe and cable penetration sealing systems



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The modularity of sandwich structures allows for versatile use as well as quick and economically priced construction. As a result, sandwich panels are especially used in the construction of industrial and production halls. In storage facilities, sandwich elements contribute to effective heat insulation, while in cold stores they are crucial for energy efficiency. Sandwich panels have become an integral part of residential construction. Their widespread application makes sandwich elements an indispensable component in the construction industry.



Sandwich elements consist of multilayer panels with an insulation core – usually mineral wool – between steel or aluminium facings.

However, special requirements are placed on the penetration sealing systems used as their reaction to fire differs from plasterboard walls and solid walls. Successfully tested Flamro fire protection systems in sandwich elements fulfil the desire for increased safety in construction projects and provide an ideal solution that offers both flexible installation and fire protection. Many Flamro soft penetration seal systems have been successfully tested for a fire resistance duration of up to 120 minutes for use in sandwich elements.

## System data

System	Building element thickness	Max. sealing size
System Flammotect 1 × 60 mm	≥ 100 mm	1000 × 1000 mm
System Flammotect 2 × 50 mm	≥ 120 mm	1000 × 1000 mm
System Flammotect 2 × 60 mm	≥ 120 mm	1000 × 1000 mm
AWM II	≥ 100 mm	Annular gap 5 – 25 mm

## Highlights

- ✓ Tested fire resistance up to 120 min (EI 120 acc. to EN 13501-2)
- ✓ Economical solutions with one or two layers of boards
- ✓ Opening sizes up to 1000 × 1000 mm
- ✓ Full scope of performance of mixed penetration seals can be used in sandwich panels
- ✓ Single penetration seal for combustible and non-combustible pipes in core drill holes

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## Applications

L-profiles must be attached along the reveal on both sides of the penetration seal. The distance between installed services and the reveal in the building element in sandwich panel walls must always be at least 100 mm.

