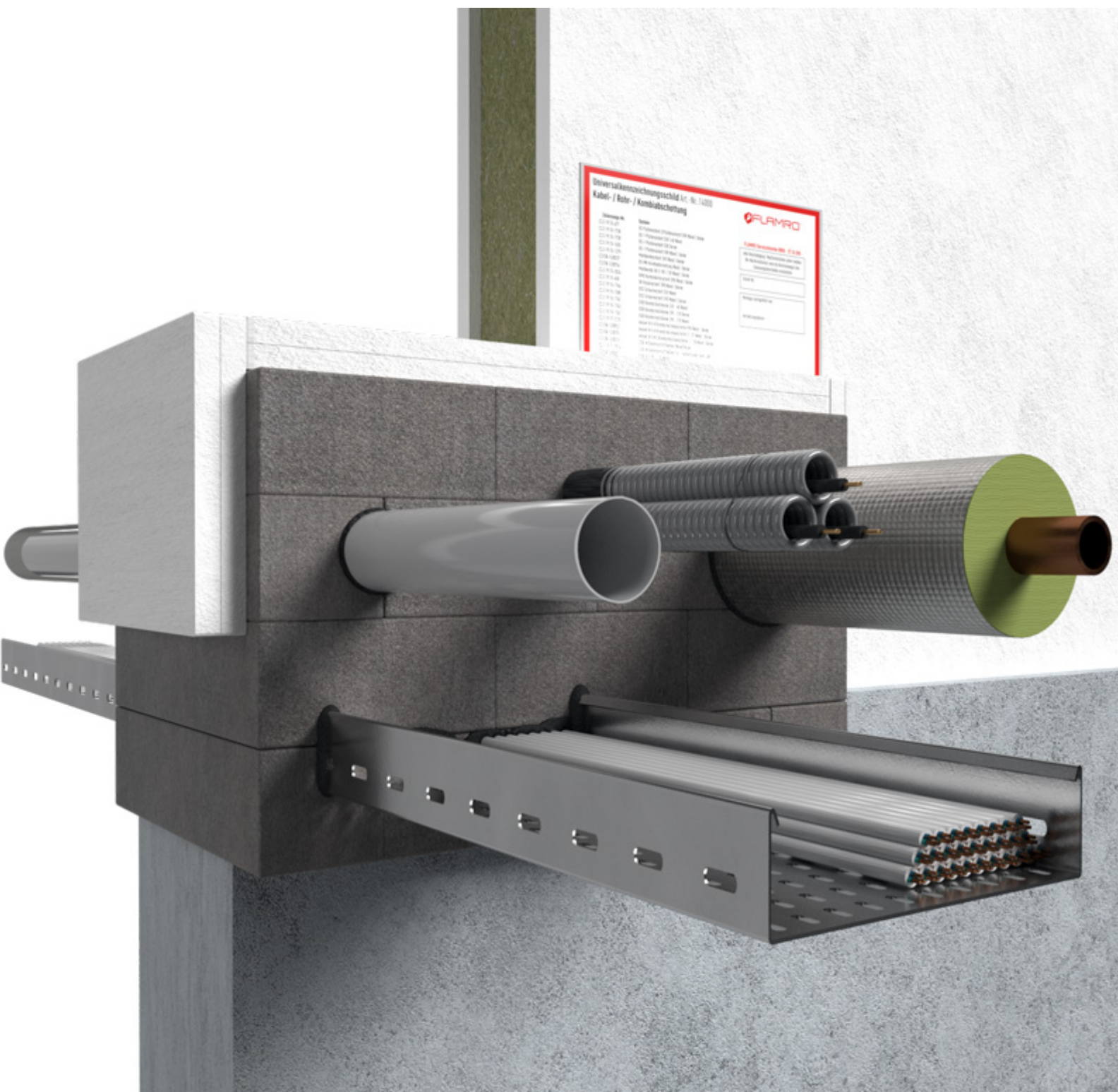


Mixed Penetration Sealing System BSB Fire protection bricks

Penetration sealing system made of flexible fire protection bricks



BSB Fire protection bricks allowed services

| Service | Dimensions | Protective measure | | Fire resistance class |
|---|---|--|-------|-----------------------|
| | | Wall | Floor | |
| Cables | | | | |
| Cables | $\varnothing \leq 80$ mm | Annular gap with DG-SC graphite filler 20 mm | | EI = 90 |
| Cable bundles | $\varnothing \leq 100/21$ mm | | | EI = 90 |
| Cable tray | No limit | | | EI = 90 |
| Coaxial cable | | | | |
| HELIAX CommScope | $\varnothing \leq 51.1$ mm | Annular gap with DG-SC graphite filler 20 mm | | EI = 90 |
| Electrical Installation conduits (EIC's) | | | | |
| Plastic EICs (Single) | $\varnothing \leq 40$ mm with/without cables $\varnothing \leq 19$ mm | Annular gap with DG-SC graphite filler 20 mm | | EI = 90 |
| Plastic EICs (Bundle) | $\varnothing \leq 100$ mm, consisting of individual EICs | Annular gap with DG-SC graphite filler 20 mm | | EI = 90 |
| Speedpipes | | | | |
| Speedpipes | $4 \times \leq 14,0$ mm | Annular gap with DG-SC graphite filler 20 mm | | EI = 90 |

| Service | Dimensions | Pipe thickness | Protective measure | | Fire resistance class |
|--|-----------------------------|----------------|---|---|-----------------------|
| | | | Wall | Floor | |
| Non-combustable pipes with Mineral Wool insulation (with coating) | | | | | |
| Copper, steel, stainless steel, cast iron | $\varnothing \leq 168.3$ mm | 3.6-14.2 mm | DG-SC Graphite filler 25-50 x 25 mm, stonewool backing on both sides | | EI = 90 |
| Non-combustable pipes with Flexible Elastomeric Foam (FEF) insulation | | | | | |
| Copper, steel, stainless steel, cast iron | $\varnothing \leq 88.9$ mm | 1.0-14.2 mm | NBR-plus fire protection wrap 125 mm 2 x 2 layers on both sides | NBR-plus fire protection wrap 125 mm 1 x 2 layers on lower side | EI = 90 |
| HVAC Split Lines | | | | | |
| Double copper pipe ($\varnothing 18/18$ mm) pre-insulated with PEF (9 mm) + PVC pipe ($\varnothing 25$ mm) + max. 3 accompanying cables ($\varnothing 14$ mm) | | | Annular gap with DG-SC graphite filler 20 mm | | EI = 90 |

| Service | Dimensions | Pipe thickness | Protective measure | | Fire resistance class |
|--|---------------------------|----------------|---|---|-----------------------|
| | | | Wall | Floor | |
| Combustable pipes with/without PE acoustic insulation tube | | | | | |
| Standard pipes, special pipes | $\varnothing \leq 110$ mm | 1.8-10 mm | IWM III fire protection wrap 50 mm 2 x 2 layers, on both sides | IWM III fire protection wrap 50 mm 1 x 2 layers, on lower side | EI = 90 U/U |
| Multilayer pipes with Flexible Elastomeric Foam (FEF) insulation (B-s3, d0) | | | | | |
| Multilayer Pipes | $\varnothing \leq 32$ mm | 2.25-6 mm | Annular gap with DG-SC graphite filler 20 mm | | EI = 90 U/C |