

Penetration Pipe (LVP)

For concrete walls and intermediate floors

For metal and composite pipes



Description

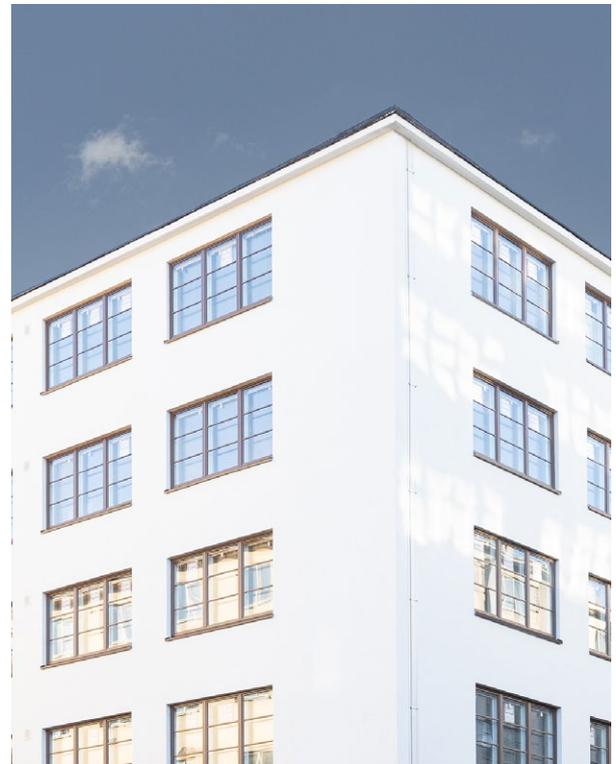
The Sewatek penetration pipe (LVP) is an ETA-assessed and CE-marked fire stop product installed inside a structure. It consists of a technical cellular rubber insulation and its protective plastic pipe. The product can be installed into an opening or cast in place. Fire classification of EI 60 – EI 120 is attained depending on the structure and the HPAC requiring a passthrough.

Purpose of use

The product is used as a fire stop in concrete structures for metal and composite pipes. Typical applications in pipe renovation projects include pipe penetrations in walls between the stairwell and an apartment and in the casting of flue intermediate floors. In new construction, LVP works well with, for example, second-stage concrete. The product is also used as a factory-installed component in several bathroom modules and flues for HPAC & electricity.

Installation

You can install the product together with a pressure pipe into a drilled opening or a larger aperture which is then cast shut. You can also install a split penetration pipe around an existing pressure pipe. Finally, an air-tight seal is created with regular acrylic putty. The product can be cut flush with the structure but it can also remain extended beyond the structure. In a wall installation with a diamond-drilled opening, we recommend cutting the product slightly short to leave space for puttying.



Product properties

Penetration pipes are available in six outer diameter sizes and about 20 different inner diameter sizes. The product can be delivered cut-to-size or cut at the site.

Penetrating HPAC	Cu-, FeZn-, Fe- and composite pipes
Structural strength/product length	92 - 1800 mm, every 1 mm
Product size	Ø 40, 50, 60, 75, 90, 125 mm

The product is also available as a split and halogen-free version.

Dimensions

Pressure pipe	Steel pipes	Penetration pipe (LVP)	Outer diameter
Ø 8-16	DN 8	40/13	Ø 40
Ø 17-22	DN 10-15	40/9	Ø 40
Ø 8-16		50/19	Ø 50
Ø 17-25		50/13	Ø 50
Ø 26-31	DN 20	50/9	Ø 50
Ø 8-16		60/25	Ø 60
Ø 17-27		60/19	Ø 60
Ø 28-32		60/13	Ø 60
Ø 33-40	DN 25	60/9	Ø 60
Ø 32-35	DN 25	75/19	Ø 75
Ø 40-43	DN 32	75/13	Ø 75
Ø 44-54		75/9	Ø 75
Ø 44-53	DN 40	90/19	Ø 90
Ø 54-61	DN 50	90/13	Ø 90
Ø 62-64		90/9	Ø 90
Ø 56-74		125/25	Ø 125
Ø 75-77	DN 65	125/19	Ø 125
Ø 78-90	DN 80	125/13	Ø 125

The penetration pipes can be delivered cut-to-size or cut to installation length at the site. The approximate maximum length is 1,800 mm.

Materials

Shell	PVC plastic
Sealing	Cellular rubber insulation

Additional information

ETA	ETA-12/0045
Fire classification	EI 60 – EI 120
Structure types	Concrete wall, min density 450 kg/m ³ and min thickness 100 mm Concrete intermediate floor, min density 850 kg/m ³ and min thickness 150 mm
Ecolabels	Nordic Swan compatible [the halogen-free model] Byggarubedömning [the halogen-free model] SundaHus [the halogen-free model]
Other technical properties	Use category: Y2, also Z1 and Z2 Impact on airborne sound insulation < 2 dB