

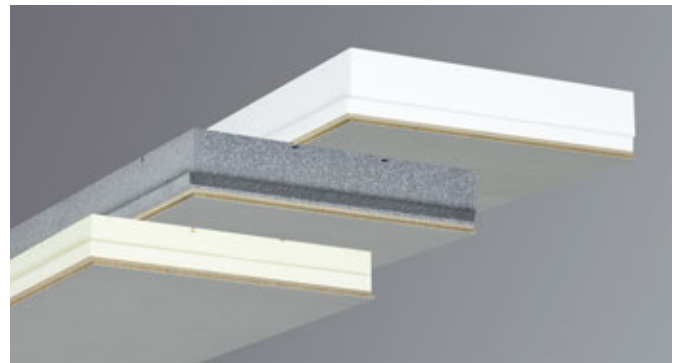
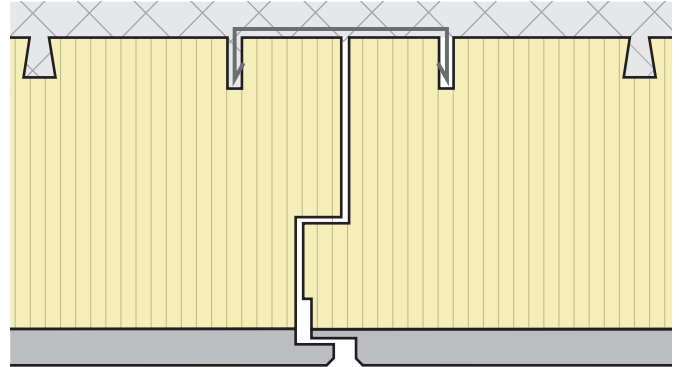
Type DPS, DPL and DPX thermal insulation boards

Application

The Frinorm type DPS, DPL and DPX thermal insulation boards are suited for insertion in ceiling formwork in underground car parks, garages and basements in single and multi-family houses as well as in commercial, industrial, agricultural and public buildings.

Properties

- Outstanding thermal insulation values of up to 0.15 W/m²K
- Three types of thermal insulation boards: with expanded rigid polystyrene foam (EPS), expanded rigid polystyrene foam with graphite additive (EPS lambda) or extruded rigid polystyrene foam (XPS)
- Element thicknesses of up to 200 mm can be produced
- Cement-bonded chipboard as cover panel, water-resistant, impact-resistant and non-combustible
- Rot-resistant, resistant to vermin and mould
- Dimensionally stable and non-warping
- No thermal bridges, perfect board joins
- Washable and can be cleaned with a high-pressure cleaner
- Appealing aesthetic bottom view
- Handy format, lightweight
- Uncomplicated and fast installation



Product description

The Frinorm thermal insulation boards have very good thermal insulation properties. They are available in three different designs: type DPS is made of expanded rigid polystyrene foam (EPS), 15 kg/m³, type DPL of expanded rigid polystyrene foam with graphite additive (EPS lambda), 20 kg/m³, while extruded rigid polystyrene foam (XPS), 33 kg/m³, is used with type DPX. The thermal insulation boards are covered with a 10 mm thick cement-bonded chipboard, which is not only water- and impact-resistant, but also non-combustible. The dovetail grooves in the surface of the thermal insulation ensure that the thermal insulation boards adhere to the concrete so that additional fastening material is not required. The sophisticated groove and tongue joints that prevent the formation of thermal bridges, the additional rabbet in the cement-bonded chipboard and the joint cover rail inset into the thermal insulation reliably prevent cement water penetration. The joint cover rail also prevents the boards from shifting in place. A 3 mm shadow joint and a 1 mm bevelled edge on the cement-bonded chipboard ensure a nice bottom view. The cement grey surface can be left untreated or coated with dispersion paint.

Materials of type DPS

Cover panel: cement-bonded chipboard, untreated, 10 mm

Thermal insulation: expanded rigid polystyrene foam (EPS), 15 kg/m³, 40–190 mm

Bonding: water-resistant D3 (EN 204-D3)

Accessories: plastic U-join cover rail

Materials of type DPL

Cover panel: cement-bonded chipboard, untreated, 10 mm

Thermal insulation: expanded rigid polystyrene foam with graphite additive (EPS lambda), 20 kg/m³, 40–190 mm

Bonding: water-resistant D3 (EN 204-D3)

Accessories: plastic U-join cover rail

Materials of type DPX

Cover panel: cement-bonded chipboard, untreated, 10 mm

Thermal insulation: extruded rigid polystyrene foam (XPS), 33 kg/m³, 40–180 mm

Bonding: water-resistant D3 (EN 204-D3)

Accessories: plastic U-join cover rail

Surface

The cement grey surface can be left untreated or coated with dispersion paint.

The surface is washable and can be cleaned with a high-pressure cleaner.

Edge milling

- Dovetail grooves in the surface of the thermal insulation for anchoring in the concrete
- Circumferential groove and tongue joint in the thermal insulation
- Rabbet in the cement-bonded chipboard
- Shadow joint, 3 mm
- Bevelled edge, 1 mm

Dimensions

Format: 1235 × 585 mm (0.722 m²)

Thicknesses type DPS: 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200 mm

Thicknesses type DPL: 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200 mm

Thicknesses type DPX: 50, 60, 70, 80, 90, 110, 130, 150, 170, 190 mm

Thermal transmittance coefficients of type DPS (U-values)

Element thickness	mm	50	60	70	80	90	100	110	120
U-value	W/m ² K	0.790	0.654	0.558	0.487	0.431	0.387	0.351	0.322
Element thickness	mm	130	140	150	160	170	180	190	200
U-value	W/m ² K	0.297	0.275	0.257	0.240	0.226	0.213	0.202	0.192

Thermal transmittance coefficients of type DPL (U-values)

Element thickness	mm	50	60	70	80	90	100	110	120
U-value	W/m ² K	0.647	0.532	0.452	0.393	0.347	0.311	0.282	0.258
Element thickness	mm	130	140	150	160	170	180	190	200
U-value	W/m ² K	0.237	0.220	0.205	0.192	0.180	0.170	0.161	0.153

Thermal transmittance coefficients of type DPX (U-values)

Element thickness	mm	50	60	70	90	110	130	150	170	190
U-value	W/m ² K	0.702	0.594	0.506	0.411	0.334	0.282	0.257	0.226	0.202

Delivery

Delivery of exact quantity on single-use pallets wrapped with stretch film

Consultation

For more information please refer to the technical data sheets.

Our technical consultants are at your service for all questions.



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