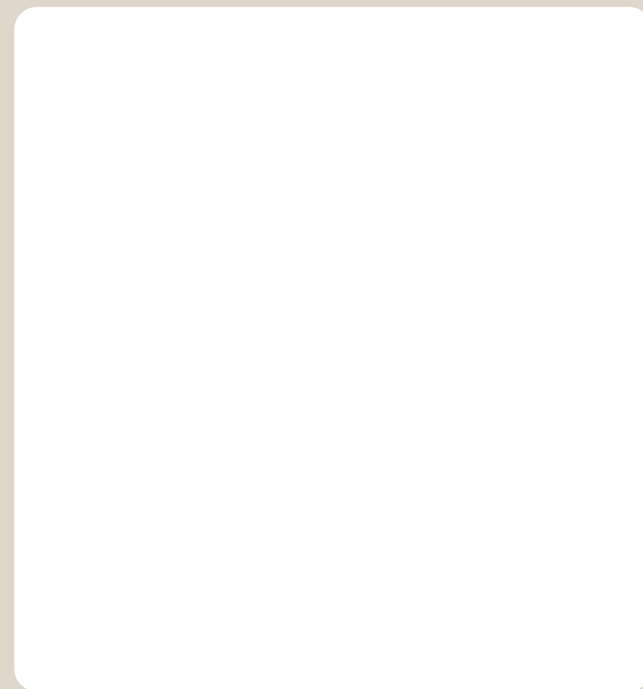




DISTRIBUTOR



EXPERT HYDRO EPS 100 λ 31 GRAFIT
EXPERT HYDRO EPS 100 λ 36

Thermal insulation of foundation



kNAUF INDUSTRIES
Polystyrene
Polypropylene
100%
RECYCLABLE
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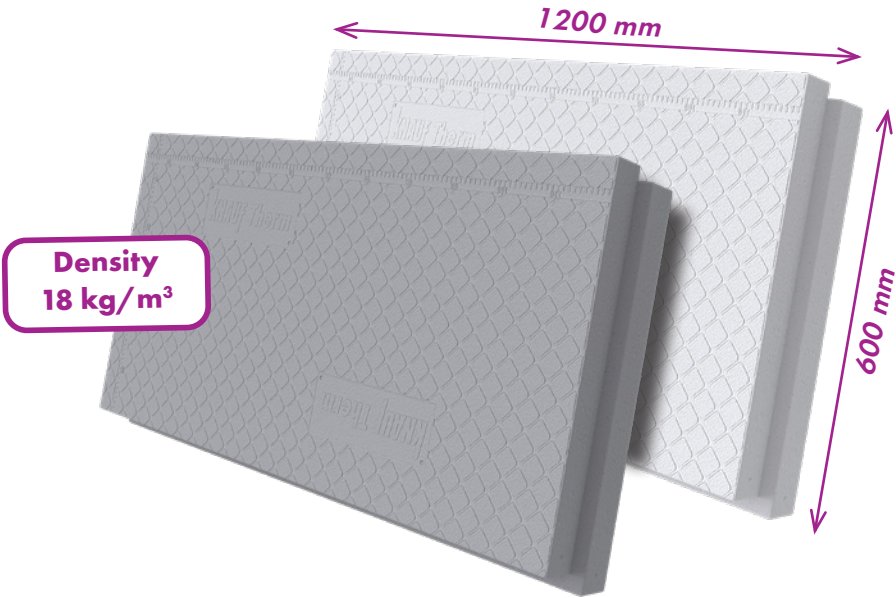
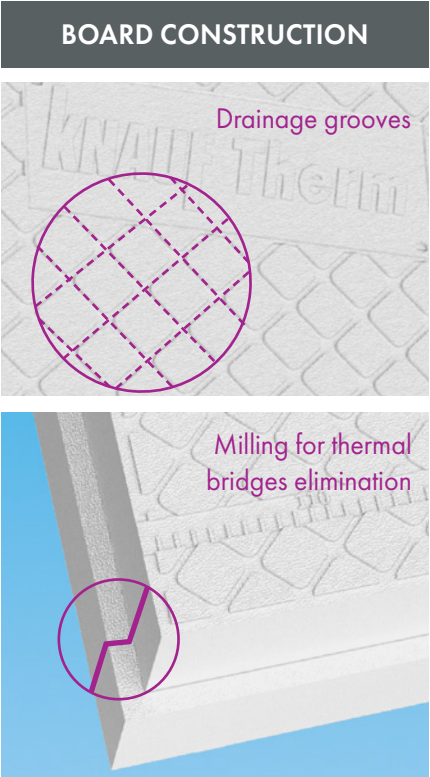
EXPERT HYDRO EPS 100 λ 31 GRAFIT

EXPERT HYDRO EPS 100 λ 36

Formed thermal insulation of foundation

Perimetric Styrofoam Boards Knauf Therm Expert HYDRO EPS 100 λ 36 a thermal insulation material obtained as a result of the process of forming the board shape by injecting it into the mould. This guarantees the repeatability of the boards, their dimensional stability and increased water repellency. Thanks to this technology, the structure of the foamed granules is not affected, which consequently reduces water absorption. On the surface of the boards there are specially shaped drainage grooves for draining water in the vertical thermal insulation system.

The shaping of the Knauf Therm Expert HYDRO EPS 100 λ 36 surface in a form of a small-size grid makes it easy to cut and fix as well as facilitates the flow of water, what additionally improves thermal properties of the insulation. Knauf Therm Expert HYDRO EPS 100 λ 36 Styrofoam Board is a comprehensive insulation material.



INTENDED USE

- Thermal insulation of underground structural elements – up to 3 m deep
- Thermal insulation of plinths and basement walls
- Protection thermal insulation against mechanical damage
- Drainage with the use of: non-woven fabric or polyethylene damp-proof course; it is also possible to use the board directly to the ground
- Elimination of thermal bridges with milling
- Permissible operational load: 3000 kg/m² (CS(10) ≥ 100 [kPa])

- For proper thermal insulation of foundations, waterproofing damp insulation must be provided.
- Styrofoam boards must not be exposed to substances with a destructive effect on polystyrene, e.g. organic solvents such as acetone, turpentine, petrol.
- Boards used below ground level should not be mechanically fixed as this may damage the waterproofing insulation.

Produced according to the European standard: EN 13162:2012+A1:2015

Products marked in accordance with the technical specifications for this product:
EPS 36 - EN 13163-T(2)-L(3)-W(3)-S(5)-P(5)-BS150-CS(10)100-DS(N)5-DS(70,-)1
EPS 31 - EN 13163-T(2)-L(3)-W(3)-S(5)-P(5)-BS150-CS(10)100-DS(N)5-DS(70,-)2

TECHNICAL PARAMETERS

$\lambda_{\text{d}} = \lambda_{\text{decl.}}$ – declared = heat conductivity coefficient [W/(mK)]	EPS 100 λ 31 GRAFIT ≤ 0,031 EPS 100 λ 36 ≤ 0,036
Depth of use [m]	do 3
Edges shape	Prostokątny – zakładka (frez)
Dimensions [mm]	1200 x 600
Thickness EPS 100 λ 36 [mm]	50, 80, 100, 120, 150
Thickness EPS 100 λ 31 GRAFIT [mm]	100, 120, 150
Reaction to fire class	E (samogasnący)
Bending resistance [kPa]	BS 150 (≥150)
Compressive stress level at 10% relative deformation [kPa]	CS(10) 100 (≥100)

THERMAL CONDUCTIVITY

Thickness [mm]		50	80	100	120	150
Thermal conductivity R_{d} [m²K/W]	EPS 100 λ 36	1,4	2,15	2,65	3,20	4,00
	EPS 100 λ 31 GRAFIT	-	-	3,20	3,85	4,80

PACKAGING

Thickness [mm]	50	80	100	120	150
Number of boards in a package [pcs.]	12	7	6	5	4
Volume of a package [m³]	0,432	0,406	0,432	0,432	0,432
Covering surface of a package [m²]	8,64	5,04	4,32	3,6	2,88