

Product Data Sheet

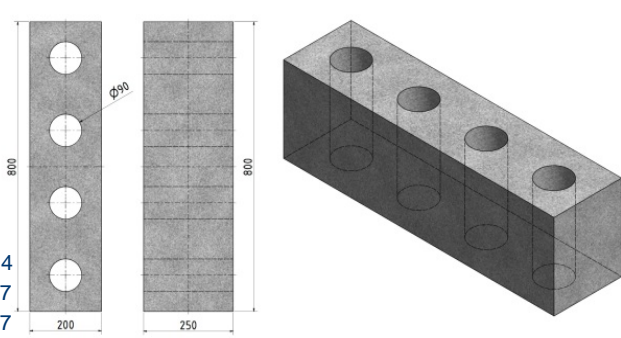
Smartbloc System II

N-BLOC 2 Product description

Cementitious building block with EPS insulation. Smartbloc is designed for supporting insulated wall structures. Blocks are stacked without the use of mortar. EPS Ø9cm locking pins to adjust the blocks into correct position. Steel rebar's are placed and concrete is poured into the remaining pillars. Stated thermal conductivity, U-value presupposes that blocks assembled by the manufacturer's instructions. Concrete per m² wall is approx. 19L.

Fire resistance is REI60/R120. Wall contribution to fire is equivalent to Euroclass A1 with Smartbloc plaster and A2 without plaster. Bloc is Euroclass B.

Insulated building block

Properties	Values	Reference	
Length	800 mm ±1mm		
Width	200 mm ±1mm		
Height	250 mm ±1mm		
Number of blocks per. m ²	5		
Pillar size	90 mm		
Density dry	315 kg/m ³		
Sound insulation	39,0 dB		
Sound insulation*	53,5 dB		
Sound insulation**	66,0 dB		
Compressive Strength	1215 kN/m ²		
Thermal conductivity	0,07 W/mk <		CSN EN 12664
U-value	0,34 W/m ² k		ISO 6946:2007
U-value*	0,22 W/m ² k		ISO 6946:2007
U-value**	0,17 W/m ² k		ISO 6946:2007
Fire Resistance	REI 60		CSN EN 1365-1
Load Bearing	R120		CSN EN 1365-1
Contribution to Fire			
Built wall with plaster	A1		ISO 1182/ISO 1716
Built wall without plaster	A2		ISO 1716/ISO 13823
Bloc	B	EN 13823/ISO 11925-2	

*With 50 mm Rockwool X33 and 13mm plaster board

**With 100 mm Rockwool X33 and 13mm plaster board

13mm plaster board: 0,2100 Lambda [W/mKm²]

Rockwool X33: 0,0330 Lambda [W/mKm²]



SMARTBLOC®

Build smarter.

www.smartbloc.no

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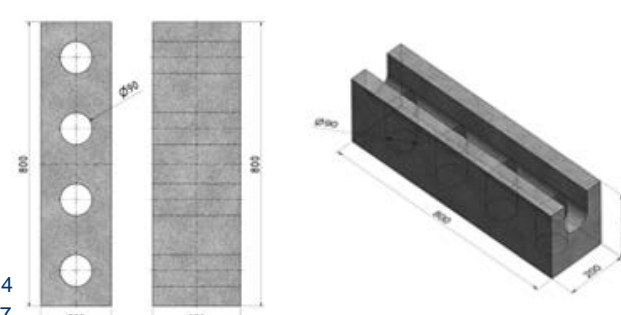
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Compressive Strength	1215 kN/m ²		
Thermal conductivity	0,07 W/mk <		CSN EN 12664
U-value	0,45 W/m ² k		ISO 6946:2007
U-value*	0,27 W/m ² k		ISO 6946:2007
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