

Environmentally-friendly insulation system made from natural wood fibres



Headline



Areas of application

Wood fibre insulation board for use in External Thermal Insulation Composite Systems (ETICS)



The mark of responsible forestry

- Suitable for use with direct render systems
- Ideal for timber frame constructions, solid wood walls and renovation of walls
- Robust and economic on-site handling
- Manufactured in dry process. Lightweight homogenous boards
- Excellent thermal characteristics in summer and winter
- Hydrophobic and water vapour open system for robust constructions

Board specifications STEICO *protect dry*

| Size [mm] | Thickness [mm] | Type | Pcs./pallet | kg/m ² | m ² /pallet | kg/pallet |
|--|----------------|-----------------|-------------|-------------------|------------------------|-------------|
| Tongue and groove profile on all 4 sides¹⁾ | | | | | | |
| 1.325 * 600 | 40 | H | 56 | 7.20 | 44.5 | approx. 360 |
| 1.325 * 600 | 60 | H | 38 | 10.80 | 30.2 | approx. 350 |
| 1.325 * 600 | 60 | M | 38 | 8.40 | 30.2 | approx. 281 |
| 1.325 * 600 | 80 | M | 28 | 11.20 | 22.3 | approx. 270 |
| 1.325 * 600 | 100 | M | 22 | 14.00 | 17.5 | approx. 261 |
| 1.325 * 600 | 120 | M | 18 | 16.80 | 14.3 | approx. 260 |
| 1.325 * 600 | 140 | M | 16 | 19.60 | 12.7 | approx. 269 |
| 1.325 * 600 | 160 | M | 14 | 22.40 | 11.1 | approx. 269 |
| 1.325 * 600 | 180 | M ²⁾ | 12 | 25.20 | 9.54 | approx. 260 |
| 1.325 * 600 | 200 | M ²⁾ | 12 | 28.00 | 9.54 | approx. 278 |

Straight edges^{3) 4) 5)}

| | | | | | | |
|---------------|-------------------|---|----|-------|------|-------------|
| 2.800 * 1.250 | 40 ²⁾ | H | 28 | 7.20 | 98.0 | approx. 568 |
| 2.800 * 1.250 | 60 ²⁾ | H | 19 | 10.80 | 66.5 | approx. 620 |
| 2.800 * 1.250 | 60 ²⁾ | M | 19 | 8.40 | 66.5 | approx. 568 |
| 2.800 * 1.250 | 80 ²⁾ | M | 14 | 11.20 | 49.0 | approx. 593 |
| 2.800 * 1.250 | 100 ²⁾ | M | 11 | 14.00 | 38.5 | approx. 575 |
| 2.800 * 1.250 | 120 ²⁾ | M | 9 | 16.80 | 31.5 | approx. 417 |
| 2.800 * 1.250 | 140 ²⁾ | M | 8 | 19.60 | 28.0 | approx. 430 |
| 2.800 * 1.250 | 160 ²⁾ | M | 7 | 22.40 | 24.5 | approx. 430 |
| 1.200 * 400 | 100 ²⁾ | L | 22 | 11.00 | 10.6 | approx. 127 |
| 1.200 * 400 | 120 ²⁾ | L | 18 | 13.20 | 8.6 | approx. 122 |
| 1.200 * 400 | 140 | L | 16 | 15.40 | 7.7 | approx. 126 |
| 1.200 * 400 | 160 | L | 14 | 17.60 | 6.7 | approx. 124 |
| 1.200 * 400 | 180 | L | 12 | 19.80 | 5.8 | approx. 120 |
| 1.200 * 400 | 200 ²⁾ | L | 12 | 22.00 | 5.8 | approx. 133 |
| 1.200 * 400 | 220 ²⁾ | L | 10 | 24.20 | 4.8 | approx. 121 |
| 1.200 * 400 | 240 ²⁾ | L | 10 | 26.40 | 4.8 | approx. 131 |

Technical values STEICO *protect dry*

| Parameters | Type H | Type M | Type L |
|---|--|--|---|
| Board designation | WF - EN 13171 - T5 - DS(70,90)3 - CS(10\Y)200 - TR30 - WS1,0 - MU3 | WF - EN 13171 - T5 - DS(70,90)3 - CS(10\Y)100 - TR20 - WS1,0 - MU3 | WF - EN 13171 - T5 - DS(70,90)3 - CS(10\Y)50 - TR10 - WS1,0 - MU3 |
| Fire class according to EN 13501-1 | E | | |
| Declared thermal conductivity λ_D [W/(m*K)] | 0.043 | 0.040 | 0.037 |
| Declared thermal resistance R_D [(m ² *K) / W] | 0,93(40) / 1,40 (60) | 1,5(60) / 2(80) / 2,5(100) / 3(120) / 3,5(140) / 4(160) | 2,70(100) / 3,20(120) / 3,75(140) / 4,30(160) / 4,85(180) / 5,40(200) / 5,90(220) / 6,45(240) |
| Board Density [kg/m ³] | approx. 180 | approx. 140 | approx. 110 |
| Water vapour diffusion resistance factor μ | 3 | | |
| Specific heat capacity [J/(kg*K)] | 2.100 | | |
| Compression strength [kPa] | 200 | 100 | 50 |
| Tensile strength perpendicular to face \perp [kPa] | 30 | 20 | 10 |
| Dimensional stability 48 h, 70°C, 90% relative air moisture | Length $\Delta\epsilon_l \leq 3\%$ Width $\Delta\epsilon_b \leq 3\%$ Thickness $\Delta\epsilon_d \leq 3\%$ | | |
| Waste code (EAK) | 030105/170201 | | |

1) Coverage dimensions: 1.300*575 mm; Pallet dimensions: approx. 1.33*1.21*1.30 m.

2) Not in stock - delivery on demand.

3) Pallet dimensions: approx. 2.60/2.80*1.25*1.30 m.

4) Pallet dimensions: approx. 1.20*0.80*1.20 m.

5) Reveal board available as STEICO *protect H* 20x1350x500 mm!

Products

STEICO *protect H dry*

Thickness from 40 to 60 mm. High stability. Boards with a thickness of 40 mm or more are adapted to air injected insulation with STEICO *zell* and STEICO *floc*.

STEICO *protect M dry*

Thickness from 60 to 200 mm. Also available in large size.

STEICO *protect L dry*

Thickness from 100 to 240 mm for the renovation of existing masonry walls.

Notes:

Store STEICO *protect dry* boards lying flat. Store in a dry area. Protect edges against damage. Remove foil packing only when the board is ready to be installed.

For dust extraction please refer to national requirements.

National building regulations have to be observed.

