

THE HEMP BLOCK

12 Block – Thickness 12 cm

PAL12

The 12 cm block fulfils all interior insulation needs for renovations of old buildings. It regulates humidity naturally, which allows it to be used to insulate interior and exterior walls that are more humid. This block offers good thermal phase shift, regulates heat and improves living comfort significantly. Its thickness also allows it to be used in interior masonry, for thin partitions which can already support heavy loads. This block also offers very good sound insulation. From this thickness, hemp blocks are an efficient solution for exterior insulation of buildings.



› ADVANTAGES

- ✓ Natural humidity control
- ✓ Thermal inertia input
- ✓ Quick and easy implementation
- ✓ Significant thermal phase-shift

› APPLICATIONS



Interior insulation



External insulation



Interior masonry

› TECHNICAL CHARACTERISTICS

| | Value | Unit | Standard |
|--|----------------|-----------------------|-------------------|
| Thickness | 12 | cm | |
| Modular dimensions | 60 x 30 | cm | |
| Number of blocks per m ² | 5,5 | blocks/m ² | |
| Maximum block weight | 9,2 | kg | |
| Bulk density when dry | 340 | kg/m ³ | EN 772-13 |
| Adhesive consumption | 4,7 | kg/m ² | |
| Dry thermal resistance | 1,79 | m ² K/W | EN 12667 |
| Thermal resistance at 50% RH | 1,69 | m ² K/W | EN 12667 |
| Thermal conductivity λ | 0,071 | W/mK | EN 12667 |
| Phase shift | 7,9 | h | ISO 13786 |
| Sound reduction index* Rw | 38 (-1 ; -3) | dB | ISO 10140-2 |
| Acoustic absorption coefficient α | 0,85 | | EN ISO 354 : 2003 |
| Equivalent air layer thickness Sd | 0,34 | m | EN ISO 12572 |
| Water vapour resistance factor μ | 2,8 | | EN ISO 12572 |
| Compressive strength | 300 | kPa | EN 772-1 |
| Dimensional tolerance | +4 ; -2 | mm | EN 772-16 |
| Reaction to fire | Without render | B, s1, d0 | NF EN 13501-1 |
| | With render | A2 | NF EN 13501-1 |
| Resistance to fire with render | EI 45 | min | EN 1364-1 |

* Coated hempblok 15mm on one side – Simulated value

› PACKAGING

| | Value | Unit |
|-------------------------------------|-----------------|------------------------|
| Dimensions of a pallet | 120 x 100 x 140 | cm |
| Maximum weight of a pallet | 600 | kg |
| Number of blocks per pallet | 60 | blocks/pallet |
| Number of m ² per pallet | 10,80 | m ² /pallet |
| Number of blocks per m ² | 5,5 | blocks/m ² |
| Storage | 3 | months/exterior |
| Storage life | 2 | years if covered |