



UNITECH

Isam Kabbani Group of Companies
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INSULATION AND PROTECTION SOLUTIONS

CORK SHEETS

PRODUCT DESCRIPTION

Semi rigid expanded insulation cork boards are naturally dark in color and although designed for insulation purposes they do have multifunctional uses. The cork's low thermal conductivity offers a high energy efficiency, thus contributing for an environmental and economic saving.



PRODUCTION

Semi rigid expanded insulation cork boards are produced from natural cork granules. These cork granules are steam-heated causing the cork to expand activating suberin, a natural binder found in the cork itself.

PRODUCT FEATURES

Possessing excellent heat/cold insulation properties they also can simultaneously function as wall/ceiling tiles and tack boards. They are available in several different sizes and thicknesses. Since they are meant primarily for insulation purposes they do initially release a small "burnt cork" smell which will dissipate over time. Semi rigid expanded insulation cork boards are also used to reduce vibration.



TECHNICAL CHARACTERISTICS

Density	100/120kg/m ³
Thermal conductivity	Test result range between 0.036/0.038 W/mk
Value declared for EU label	0.040W/mk
Resistance to compression at 10%	Declared 100 KPa (test result 110/120KPa) - EN 826
Prependicular face resistance	Declared TR50 (test result 60 KPa) - EN 1607
Level of humidity	Maximum 8% - EN 1215
Water absorption	Declared 0.5 Kg/m ² (maximum test result 0.3kg/m ²) - EN 1609
Longitude tolerance	Between +/- 3y 5mm - EN 822
Thickness tolerance	Between +/- y 2mm - EN 823
Fire resistance	Euro class "E" - EN 13501-1
Recyclable	100%
Impact noise	20JBLF - 40dBHF
Air noise	30JBLF - 35dBMF - 34dBHF
50mm Sound absorption	40% at 400Hz/50Hz to 3500%
Sound speed on cork	500m / second
Sound absorption coefficient 500 CPS	0.33/0.345

ADVANTAGES

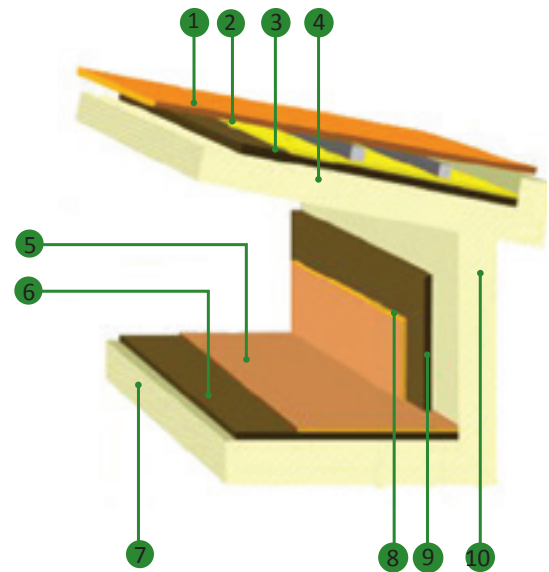
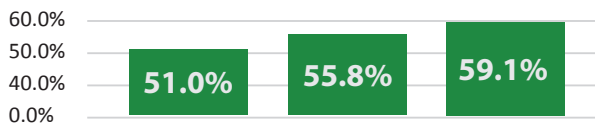
- Excellent thermal protection
- High thermal inertia
- Reduction of energy costs
- Natural industrial process (no additives)
- Superior environmental performance 100% Natural and renewable insulation
- Recyclable system Thermal, acoustic and anti-vibratic insulation material
- Maximum durability with no loss of its characteristics totally recyclable
- Excellent dimensional stability (even when subject to high thermal variation)
- Low energetic consumption (93% of cork, 7% of electricity)
- Excellent fire behavior / does not release toxic gases;Recyclable



MAIN APPLICATIONS

Exterior walls; double walls; flat and sloping coverings; floating paving slab (impact noise); partitions; door insulation; prefabricated wooden houses; thermal and acoustic wooden panels; expansion/dilatation joints (adequate density); external frontages on view.

1. Final Covering
2. Waterproofing
3. Expanded Insulation Cork Board
4. Slab
5. Floor Covering
6. Expanded Insulation Cork Board
7. Slab
8. Wall Covering
9. Expanded Insulation Cork Board
10. Existing Wall



APPLICABLE STANDARDS

- Conforms to EN 13170 + EN 13172
- Thermal conductivity tested by the independent laboratories: CSTB (France) and LNEC (Portugal)
- Industrial quality / Quality control by CSTB (twice annually)
- Other certifications (in addition to EN 13170)
- MPA Stuttgart - Otto-Graf-Institut (quality verification).
- ARGEKDR - Zertifikat no. - R0700144 "R" green 100% vegetal
- ACERMI by CSTB, France (Industrial and quality control).



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