



AMORIM

AMORIM ISOLAMENTOS, S.A.



WHY SHOULD WE USE CORK IN CONSTRUCTION?

1) Favourable impact on cork forests:

► Total area (Portugal) 735,000 hectares. ► The cork tree produce cork every nine years (a renewable raw material). ► Avoids soil desertification. ► Provides local employment in the forestry sector hence prevent population desertification. ► Important in maintaining biodiversity (unique in Europe). ► Portuguese forests (cork oaks) trap 5 million tons of CO₂ every year.

2) 100% natural industrial process:

► Only uses cork as a raw material. ► Without additives... agglomerate of its own resins (suberin). ► 90% of the energy consumed is biomass (a by-product of its own industrial processing). ► Any wastage from the industrial process is 100% reusable (cork and dust granules).

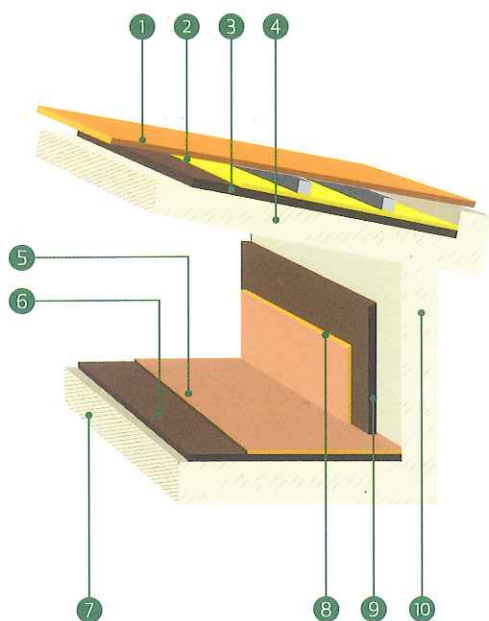
3) Technical characteristics:

► **Density:** 100/120Kg/m³. ► **Thermal conductivity:** test results 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 results 110/120 Kpa) – EN 826. ► **Perpendicular face resistance:** declared TR50 (test results 60 Kpa) – EN 1607. ► **Level of humidity:** maximum 8% - EN 1215. ► **Water absorption:** declared 0.5 Kg/m² (maximum test result 0.3 kg /m²) – EN 1609. ► **Longitude tolerance:** between +/- 3 y 5mm – EN 822. ► **Thickness tolerance:** between +/- 1 y 2 mm – EN 823. ► **Fire resistance:** Euro clase "E" – EN 13501 – 1. ► **Durability:** practically unlimited. ► **Recyclable:** 100%.

**100%
NATURAL
CHOICE**

EXPANDED
INSULATION
CORKBOARD IS
A SUSTAINABLE
MATERIAL FOR
SUSTAINABLE
INSULATION

VISIT THE NEW SITE
FOR CONSTRUCTION
SOLUTIONS:
[HTTP://WWW.
BCORK.AMORIM.COM](http://www.bcork.amorim.com)



51%
**REDUCTION IN
ENERGY CONSUMPTION**
BY 60MM THICK EXPANDED
INSULATION CORKBOARD
(SUPERIOR THICKNESS • BETTER INSULATION)

1. Final Covering. | 2. Waterproofed.
3. Insulation with standard layer. | 4. Covering layer.
5. Final finishing. | 6. Agglomerate of expanded cork.
7. Existing pavement. | 8. Finished interior.
9. Expanded insulation corkboard. | 10. Existing stonework.

5) Quality control:

► 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). ► ARGE KDR – Zertifikat no. - R0700144 "R" green 100% vegetal. ► ACERMI by CSTB, France (Industrial and quality control).

6) In general:

► High level of stability... coping with major thermal variations. ► Deals with temperatures of between: (-) 180°C and (+) 120°C. ► In case of fire, cork does not release toxic gases. ► Unlimited durability, maintaining its technical characteristics (official tests demonstrate between 45 and 50 years). ► Totally recyclable after utilisation... It may again be reused in construction applications.



Rua da Corticeira, nº66
4535-173 Mozelos VRF
Portugal

TEL: +351 227 419 100
FAX: +351 227 419 101
E: geral.aisol@amorim.com