



AMORIM

Amorim Isolamentos, S.A.

CORKTHERM 040 – NATURAL CHOICE

(Manufactured by Amorim Isolamentos, SA)

Favorable impact of cork forest:

- Total area (Portugal) 735.000 hectares
- Cork trees given cork every 9 years (renewable raw material)
- Avoid soil desertification
- Keep population working thereavoid human desertification
- Important the keep biodiversity (unique in Europe)

Industrial process:

- Only cork as raw material
- No additives....agglomeration with own resin (suberin)
- 90% of energy consumption for production is biomass (waste of own industrial process)
- Waste of industrial process is 100% reused (cork granules + dust)

Corktherm 040: technical characteristics:

- Density: 100/120 kgs / m³
- Thermal conductivity:
 - Test result between 0,036 / 0,038 W/mk
 - Declared value for CE mark: 0,040 (now) 0,039 W/mk within few months)
- Resistance at 10% compression: declared 100 Kpa (test result 110/120 Kpa) – EN 826
- Resistance perpendicular to the faces: declared TR 50 (test result 60 Kpa)- EN 1607
- Moisture contents: 8% maximum – EN 12105
- Water absorption: declared 0,kgs/m² (test result maximum 0,3 kgs/m²) – EN 1609
- Length tolerances: between +/- 3 and 5 mm – EN 822
- Width tolerances: between +/- 2 and 3 mm – EN 822
- Thickness tolerances: between +/- 1 and 2 mm – EN 823
- Fire resistance: Euro class “E” – EN 13501-1



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Quality verification:

- a) As per EN 13170 + EN 13172
- b) Thermal conductivity made by Independent laboratories: CSTB (France) and LNEC (Portugal)
- c) Independent industrial / quality verification by CSTB (twice a year)
- d) Other certifications (besides EN 13170):
 - MPA Stuttgart – Otto-Graf-Institut (quality verification)
 - ARGE KDR – Zertifikat nr. R0700144 “R” green....100% vegetal
 - ACERMI from CSTB of France (industrial and quality verification)

Generality about Corktherm 040:

- Very good material in terms of dimensional stability ...even with strong temperatures variation
- Working temperature: (-) 180°C and (+) 120°C
- In case o building fire no toxic gas emissions from cork
- Very long life keeping their technical characteristics (official tests showing 45 and 50 years)
- After use is totally recycledand used again for building applications

**CORKTHERM 040 (expanded insulation cork)
is the natural choice:**

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**SUSTAINABLE MATERIAL FOR SUSTAINABLE
BUILDING**
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