



isocor

Aglomerados de Cortiça A.C.E.
AGLOMERADO PURO DE CORTIÇA EXPANDIDA
PURE STEAMBAKED INSULATION CORKBOARD

PURE STEAMBAKED INSULATION CORBOARD

Technical data

DESCRIPTION:

The PURE STEAMBAKED INSULATION CORBOARD is a natural product, which is produced from the expansion of the cork granules, with steam water, and in which production there are no synthetic agents involved.

During its usage period, this product, does not suffers any change in its properties, either mechanical or physical, and it is dimensional stable.

The production from a renewable raw material, non use of synthetic agents, as well as the ability to be recycled for other purposes, makes this product into an environmental friendly and ecologic product.

APLICATIONS:

Due to its remarkable properties, this product presents it self as an excellent thermal, acoustic and vibratic insulator, and it is ideal for the following applications:

- Acoustical insulation
- Thermal and acoustical insulation of walls
- Thermal and acoustical insulation of facades
- Thermal and acoustical insulation of roofs (flat or pitched)
- Thermal insulation of refrigerator chambers
- Vibratic insulation

FEATURES:

Density: from 105 to 130 Kgs/m³
Thermal conductivity coefficient: from 0,036 to 0,040 W/mk
Acoustical absorption coefficient (for 500Hz): 0,33
Tension to stress: from 1,4 to 2,0 Kgs/m²
Thermal diffusion: $1,4 \times 10^{-7}$ / $1,9 \times 10^{-7}$ m²/s
Temperatures of usage: from -180° C to +140° C
Fire class: E
Dimensions: 1000X500 mm
Thicknesses: from 10 to 300 mm
High elasticity
Dimensionally stable
Long durability

VALUES OF THERMAL INSULATION:

<u>Thickness</u>	<u>R</u> <u>(in m² k/W)</u>	<u>K</u> <u>(in W/m²K)</u>
10 mm	0,250	4,000
20 mm	0,500	2,000
25 mm	0,650	1,600
30 mm	0,750	1,333
40 mm	1,000	1,000
50 mm	1,250	0,800
60 mm	1,500	0,667
70 mm	1,750	0,571
80 mm	2,000	0,500
90 mm	2,250	0,444
100 mm	2,500	0,400

PACKING (1000 x 500 mm):

<u>Thickness</u>	<u>Boards</u> <u>p/pack</u>	<u>M2</u> <u>p/Pack</u>	<u>M3</u> <u>p/Pack</u>
10 mm	30	15	0,150
20 mm	15	7,5	0,150
25 mm	12	6	0,150
30 mm	10	5	0,150
40 mm	8	4	0,160
50 mm	6	3	0,150
60 mm	5	2,5	0,150
70 mm	4	2	0,140
80 mm	4	2	0,160
90 mm	3	1,5	0,135
100 mm	3	1,5	0,150