



EuroBead is a bonded bead Cavity Wall fill insulation used to reduce thermal transmittance of completed, new or existing buildings.



Description

EuroBead Cavity Wall Insulation is an expanded polystyrene material injected in bead form with a binding agent into the cavity wall. It is used to reduce the thermal transmittance of completed, new or existing cavity walls with masonry inner and outer leaves. Filling the cavity with Eurobead will not diminish the original function of the cavity. The cavity will still be able to breath, the bead will not absorb water and will not allow the transfer of water across the cavity to the inner leaf.

EuroBead Advantages

Excellent thermal performance, immediate energy saving results, specialist insulation installers, complete fill every time, concrete construction benefits.

Installation

The bead and bonding agent is injected, through drill holes, into the cavity using a specifically designed equipment. The material packs a uniform density inside the cavity. Once the proper drilling pattern and injection sequence is followed the cavity will be completely filled.

Physical Properties

Properties	Units
EuroBead	
Thermal Conductivity	0.033 W/mK
Density	12kg/m ³
Bead Size	3-8mm
EuroBead Fill Bonding Agent	
Density	1.10
Quality	Free from impurities or lumps. Residue on 177 micron sieve max 20ppm
Form	Liquid Suspension
Colour	White
Odour	Mild Sweet
Viscosity	20-30cP @20°C
Freezing Point	0°C
Boiling Point	100°C
Min Operating Temperature	5°C
pH	8.5-9.5

Thermal Bridging & Air Tightness Solutions



U-Values

The thermal performance of EuroBead is only limited by the width of the cavity, the wider the cavity the greater the U-Value that can be achieved. (Calculation Method I.S. WN ISO 6946.)

Cavity Width EuroBead (mm)	Render 1300 kg/m ³ Block 2000 kg/m ³ Block 2000 kg/m ³ Plaster 1200 kg/m ³	Render 1300 kg/m ³ Block 650 kg/m ³ Block 2000 kg/m ³ Plaster 1200 kg/m ³	Brick 1700 kg/m ³ Block 2000 kg/m ³ Plaster 1200 kg/m ³	Brick 1700 kg/m ³ Block 650 kg/m ³ Plaster 1200 kg/m ³
100	0.29	0.26	0.29	0.26
105	0.28	0.25	0.28	0.25
110	0.27	0.24	0.26	0.24
115	0.26	0.23	0.25	0.23
120	0.25	0.22	0.25	0.23
125	0.24	0.22	0.25	0.22
130	0.23	0.21	0.23	0.21
135	0.22	0.20	0.22	0.20
140	0.22	0.20	0.21	0.20
145	0.21	0.19	0.21	0.19
150	0.20	0.19	0.20	0.19
155	0.20	0.18	0.20	0.18
160	0.19	0.18	0.19	0.18
165	0.19	0.17	0.18	0.17
170	0.18	0.17	0.18	0.17
175	0.18	0.16	0.17	0.16
180	0.17	0.16	0.17	0.16
185	0.17	0.15	0.17	0.16
190	0.16	0.15	0.16	0.15
195	0.16	0.15	0.16	0.15
200	0.15	0.14	0.15	0.15

Note: It is assumed that cavity walls containing full-fill bonded bead will be constructed in accordance with the requirements of the 1997 to 2007 Building Regulations.

Certification

EuroBead successfully received IAB Certification proving compliance with Building Regulations 1997-2007 Cert Number 08/0300