



September 2014

EcoStud

For solid walls

Description

EcoStud (patent pending) is a thermally engineered composite of high performance extruded polystyrene bonded to Oriented Strand Board 3 (OSB 3). The OSB 3 component is sourced from FSC certified forests.

Application

EcoStuds are part of our ThermoShell Internal Wall Insulation System and are installed in conjunction with Earthwool EcoBatt. They are available in 2 sizes.

Standards

The extruded polystyrene component of EcoStud is manufactured in accordance with BS EN 13164, EN 16001 Energy Management Systems, OHSAS 18001 Occupational Health and Safety Management Systems, ISO 14001 Environmental Management Systems, and ISO 9001 Quality Management Systems, as certified by Bureau Veritas. The OSB component of EcoStud is manufactured to the specification detailed in BS EN 300.

Durability

The continuous service temperature limit of the extruded polystyrene content of EcoStud is up to +70° C.

Performance

Thermal

The extruded polystyrene content of EcoStud has a thermal conductivity of 0.033W/mK, the Oriented Strand Board has a thermal conductivity of 0.130W/mK.

Benefits

- Excellent thermal performance
- High compressive strength
- Highly resistant to water absorption
- Structurally stable in the long term



Move Forward with Confidence



EcoStud

Environmental

The extruded polystyrene component of EcoStud has a Global Warming Potential (GWP) of less than five, zero Ozone Depletion Potential (ODP), and represents no known threat to the environment and is recyclable.

Vapour resistance - resistivity

The extruded polystyrene component of EcoStud has a water vapour resistivity of 625MNs/gm. The OSB component of EcoStud has a water vapour resistivity of 250MNs/gm.

Moisture resistance

The extruded polystyrene component of EcoStud is unaffected by moisture. Before installation EcoStud should be conditioned as close as is practicable to the environmental conditions likely to occur in service. The moisture content of the OSB component should under no circumstances exceed 15%.

Handling and storage

EcoStuds are easy to handle and install, being lightweight and easily cut to size, where necessary. They are supplied in polythene packs which are designed for short term protection only. For longer term protection on site, the product should either be stored indoors, or under cover and off the ground. EcoStuds should not be left permanently exposed to the elements.

Thickness (mm)	Width (mm)	Length (mm)	Thermal resistance (m ² K/W)
EcoStud			
65	50	2400	1.63
95	50	2400	2.54

All dimensions are nominal

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