



ECO-FRIENDLY PLASTIC PRODUCTS

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CLADDING U-VALUES

The Thermal Conductivity measurement was carried out in accordance with BS EN 12667: 2001 (Thermal Performance of Building Materials and Products - Determination of Thermal Resistance) by means of the Guarded Hot Plate Method using a double side horizontal apparatus, equipment No. 3. A steel box surrounded the equipment, filled with cork insulation to reduce edge losses,

The two test specimens were prepared to the testable dimensions of the B.I.T.S. test rig. They were produced by gluing two pieces of the boards (per specimen) approximately 150mm wide together, to produce two specimens approximately 300mm square. The major faces of the specimens were machined flat to approximately 27mm thick from the material supplied. The specimens were conditioned to constant weight in a controlled laboratory prior to testing.

RESULTS

Measured Test Thickness m	Test Density kg/m ³	Mean Temperature °C	Measured Thermal Conductivity Value, W/(m.K)
0.0275	700.9	9.6	0.0910 ± 8 %