



Vermiculite Replacement Panels

Thermax SF-750



| | | | |
|---|-------------------|----------------------------------|-----|
| Maximum Service Temperature | °C | 1100 | |
| | °F | 2012 | |
| Bulk density, dry | kg/m ³ | 750 | |
| | PCF | 45 | |
| Compressive Strength (EN 1094-5:1995) | MPa | 6 | |
| @ room temperature | lbs/sq.in. | 870 | |
| Modulus of rupture (EN 993-6: 1995) | MPa | 4.5 | |
| | lbs/sq.in. | 131 | |
| Total porosity | % | 81 | |
| R-Value (per inch of thickness) | | 0.81 | |
| Specific heat | kJ/(kgxK) | 1.15 | |
| | BTU/(lbx°F) | 0.274 | |
| Coefficient of reversible thermal expansion (BS 1902: section 5.3: 1990) | | 11.9 x 10 ⁻⁶ | |
| @20°C-750°C (68°F-1382°F) | | 6.61 x 10 ⁻⁶ | |
| Resistance to thermal shock (EN 993-11: 1998) | | Not tested | |
| heating to 950°C (1742°F) | | | |
| Linear heat shrinkage (EN 1094-6: 1999) | | <2 | |
| 12 h at 1000°C (1832°F) | | | |
| 12 h at 1100°C (2012°F) | | | |
| Pyrometric cone equivalent (ASTM C24-89 ORTON cones) | | 1300 | |
| | | 2372 | |
| Thermal conductivity (ASTM C-182) | | | |
| mean temperature @200°C | | 0.18 | |
| @400°C | | 0.20 | |
| @600°C | | 0.22 | |
| @392°F | | 1.24 | |
| @752°F | | 1.39 | |
| @1112°F | | 1.53 | |
| Chemical analysis, typical | | | |
| Silica | 44 | Calcium oxide | 0 |
| Titanium dioxide | 0.7 | Sodium oxide | 0.2 |
| Ferric oxide | 6 | Potassium oxide | 12 |
| Alumina | 10 | Phosphoric acid | 3 |
| Magnesium Oxide | 24 | Loss on ignition 1025°C (1877°F) | 1 |
| Color | | Beige | |