# AL-JAZIERAH CLASSIC

المنتج مقاوم للحريق ومطابق للمواصفات السعودية والأمريكية ASTM C578

| Clarification | Test Method | Unit | Classification |
|---|---|---|---|
| | | | TYPE VII |
| Density | ASTM D 1622 | $Kg/m^3$ | 32-35 |
| Thermal Conductivity At 24° Mean Temp (K-value) | ASTM C-177 | W/m.k | 0.027 |
| | ASTM C-518 | Btu in/ft² hr°F | 0.187 |
| Water Absorption | ASTM D2842 | % by vol. | 0.2 |
| Water vapor permeance of 1.00-in. (25.4-mm) thickness max, perm | ASTM E96 | Perm – inch | 1.1 |
| | | $Ng/Pa.s.m^2$ | 63 |
| Flame Spread | ASTM E84 | Rating. | <= 25 |
| Flammability Class | DIN 4102 | Building material class | B1/B2 |
| Compressive Strength at 10% deflection | ASTM D1621 | kPA | 414 |
| Flexural Strength, min | ASTM C203 | kPA | 517 |
| Dimension Stability (change in dimension, Max) | ASTM D 2126 | % | 2.0 |

**U-Value Calculations** of XPS Type VII Complying with ASTM C578:-

Thickness: 50 mm  R-value = 1.85 $k.m^2/w$  U-value = 0.54 $w/m^2k$