Thermal Insulation Material:

1. Fiberglass-Reinforced Laminate Composite, Fabreeka-TIM® , as manufactured by Fabreeka International, Inc.

2. Material shall maintain structural integrity of connections. Refer to Structural Drawings for specific Load requirements.

3. Ultimate Material Properties:

 a. Tensile Strength ASTM D638 11,000 psi (75.8 MPa)

 b. Flexural Strength ASTM D790 25,000 psi (172.4 MPa)

 c. Compressive Strength ASTM D695 38,900 psi (268.2 MPa)

 d. Compressive Modulus ASTM D695

 i. 1/2” thk (12.7mm) 291,194 psi (2,007.7 MPa)

 ii. 1” thk (25.4mm) 519,531 psi (3,582.0 MPa)

 e. Shear Strength ASTM D732 15,000 psi (103.4 MPa)

 f. Thickness 1” (25.4mm) or as indicated

 g. Oxygen Index ASTM D2863 21.8%

 h. Coefficient of Thermal Expansion ASTM D696 2.2

 i. Thermal Conductivity ASTM C177 1.8 BTU/Hr/ft2/in/°F (0.259 W/m\*°K)

 j. Density 107.83 lb/ft3 (1727 Kg/M3)