

PRODUCT DESCRIPTION

PlantPanel X is a rigid continuous insulation material used in exterior above-ground applications. With an R Value of R3.25 per inch, PlantPanel adds to thermal and acoustic comfort and performance.

**CHARACTERISTICS**

PlantPanel is an ideal material for exterior rigid insulation due to its ease of installation, dimensional stability, fire resistance, sustained R-value across diverse temperatures, and exceptional vapor permeability.

PRIMARY USE

Engineered with a density to resist compression and deflection, PlantPanel is used in split-insulation wall and roof assemblies with either a rain screen cladding or roofing material, depending on the application. With 100% biobased and recycled content, PlantPanel is a sustainable, low carbon continuous insulation solution that's easy to install and safe to handle.

TECHNICAL DATA**ASTM C518**

Thermal Resistance @ 75 F - R3.25

Apparent Thermal Conductivity (Btu·in/ft²·h·°F) = .3154

Thermal Resistivity Per Inch (ft²·h·°F/Btu·in) = 3.17

ASTM E84

Flame Spread and Smoke Developed - Class B

(Class A rating coming in 2025)

Flame Spread Index = 40

Smoke Developed Index = 250

ASTM C165

Stress at 10% Displacement - 5.64 lb/in²

ASTM C303

Specimen Mass (lb) = 1.2

Average Thickness (in) = 2.06

Specimen Density (lb/ft³) = 7.02

ASTM C1338

Fungi Resistance - Pass

ASTM C1617

Corrosion Mass Loss - Pass

ASTM D2126

Thermal and Humid Aging - Pass

After 168 hours of exposure to 158 F / 97% RH - 24%

Deviation

ASTM E96

Water Vapor Transmission - 26 Perms / Pass

**ENVIRONMENTAL**

- Red List ingredient free
- Low embodied energy due to rapidly renewable plant-based feedstock
- Reduction of greenhouse gases (GHGs); Currently being analyzed for an Environmental Product Declaration.
- VOC Free
- Recoverable, recyclable, compostable biobased material