 **01 33 16 TECHNICAL DATA SHEET**

**CSI Classifications**: 07 21 14 Siding Insulation

07 46 24 Insulated Vinyl Siding

**Description:** Expanded polystyrene (EPS) foam insulation, fire-retardant, termiticide-treated, contoured to fit approved siding. Contains no CFCs, HCFCs or formaldehyde.

**Intended Use:** To improve structural and thermal performance of buildings.

**Physical Properties:**

**Length**: 4 ft (1200mm) long.

**Width:**  27 to 32 inches (675 to 800mm) depending on profile.

**Density (ASTM C 303)**: 1.0 lb/cu ft (16 kg/cu m).

**Flame spread /**

**smoke developed**

**(ASTM E 84)**: 0 / 175.

**Water Absorption**

**(ASTM C272)**: Less than 4% by volume.

**Thermal Expansion**: 0.000035 inch/inch/deg F (.000063 mm/mm/deg C).

**Insulating Values (ASTM 1363)**:

Siding Profile "R"-value

D-4" 3.3

D-4.5" 3.7

D-5" 3.4

D-4" Dutch Lap 3.6

D-4.5" Dutch Lap 4.0

D-5" Dutch Lap 4.0

Triple 3" 3.7

8" Horizontal 3.0

## Sound Transmission

## Classification (ASTM E413)

**Manufacturing Tolerances**:

Thickness: +/- 1/32 inch (0.8mm).

Width: +/- 1/16 inch (1.6mm).

Length: +/- 3/16 inch (4.8mm).

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**Accessories**:

Starter Strip: EasyStart® 12 ft 6 in (3.8m) long strip ensures sufficient space between the siding panel and the wall substrate to accommodate ThermoWall panels.

Corner Posts: EasyPost® inserts 48 inch (1200mm) long fit behind siding corner posts.

**Termiticide:** Preventol™ Insecticide/Termiticide

**Approved siding manufacturers**:

ABTCO

Alside

Certainteed

Crane Performance Siding

Gentek

Heartland

Kaycan

KP Building Products

Mastic

Mitten

Napco

Norandex Inc.

Revere

Variform, Inc.

Vytec

**Applicable standards, related references**

ASTM C272 – Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Construction

ASTM C303 – Standard Test Method for Dimensions and Density of Preformed Block-Type Thermal Insulation

ASTM C578 – Standard Specifications for Rigid, Cellular Polystyrene Thermal Insulation

ASTM C1363 – Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus

ASTM E84 – Standard Test Method for Surface-Burning Characteristics of Building Materials

ASTM E96 – Standard Test Method for Water Vapor Transmission of Materials

## ASTM E413 – 10) Classification for Rating Sound Insulation

UL 723 – Tests for Surface Burning Characteristics of Building Materials



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