



# DELTA®- CW4A

## CURTAIN WALL INSULATION BOARD



### Efficient – Confines Fire – Life Safety

**DELTA®-CW4A Board** is manufactured from felted mineral wool bonded together with a high temperature binder. It is thermally efficient, high melt point (over 2000oF.), semi-rigid commercial insulation recommended for fire containment curtain wall systems. DELTA®-CW4A Curtain Wall mineral wool Board installed as part of spandrel wall fire-rated assembly prevents fire from breaking through exterior curtain walls for hours. DELTA®-CW4A is available with or without a strong foil-reinforced vapor retarder. Maximum life safety protection against the spread of fire where the floor slab edge meets the curtain wall requires the mechanical installation\* of both DELTA®-CW4A and DELTA®-SAFING mineral wool insulations.

### Physical Properties

All values in ( ) are metric conversions.

Density: Nominal 4 lb./ft<sup>3</sup> (64 kg./m<sup>3</sup>)  
Delivered Actual density / max. tolerance, package weights @ minus 10%

Thermal Conductivity:  
75° F. (24° C) mean temp. = 0.24 Btu in./h ft<sup>2</sup> °F (0.035 W/m K)  
75° F. (24° C) mean temp. R value = 4.17 per inch

Maximum Continuous Service Temperature: (for non fire applications)  
[ASTM C 411 test method]..... up to 1200° F (649° C)  
Melting Temperature: greater than 2000° F(1093° C)

Typical Fire Endurance Tested Time-Temperatures:  
ASTM E 119 tested assemblies for One Hour at 1700° F (927° C)  
ASTM E 119 tested assemblies for Two Hours at 1850° F (1010° C)

Corrosion: [Steel, Aluminum, Copper, ASTM C 665] .....  
None  
Moisture Sorption: [Vapor, ASTM C 1104]Less than 1%  
Water wicking resistant and Non-hygroscopic.  
Does not promote growth of fungi or bacteria.

### Physical Properties: Factory Applied Vapor Retarder Facing

Description:.(FSP) "Foil-Scrim-Poly" otherwise called "Reinforced Foil "

FSP Construction: 0.0003" Aluminum Foil/2x2 Scrim/.0015" Polyethylene

Permeance Rating, max. Perms 0.02

Surface Burning Characteristics: composite with FSP Vapor Retarder  
ASTM E 84 & Underwriters Laboratories UL® 723 Test Methods  
Flame Spread Index = 0  
Smoke Developed Index = 0

Properly installed protective vapor retarders must be used for below ambient applications to prevent movement of water vapor through or around the insulation towards the colder surface.

\*When installed in accordance with manufacturer's recommendations.

Forms Available  
Standard Thickness: 2 in.(50mm) through 4 in.(100mm) in ½ in. (12.7mm) increments.

Standard Width: 24 in. (61cm),  
Standard Length: 48 in. (122cm)  
Packaged: Shrink-pack polyethylene: approx. 96 board feet/pkg. Custom dimensions available.

### Specifications:

ASTM C 612-00, Type IA, IB, II, III, and IVA  
U.S. Federal Specification HH-I-521F  
U.S. Federal Specification HH-I-558B and C  
Omega Point Laboratories, Inc. Tested....  
See Directory of Listed Building Products, Materials, and Assemblies  
Underwriters Laboratories, Inc.® Tested....  
See UL® Fire Resistance Directory for Classifications