

Semi-Rigid Commercial Boards



PRODUCT DESCRIPTION

Basic Use: Semi-rigid commercial boards are suitable for wall panels, roof cavities of pre-engineered metal buildings and other types of commercial building applications such as between steel studs, sandwich walls and roof panels.

Benefits: Semi-rigid commercial boards provide high sound absorption and excellent thermal performance. This product contains a minimum of 60% recycled content. The product can be easily cut, handled, fabricated and installed.

Composition and Materials: The product is composed of tan, uniformly textured, inorganic fibrous glass and formed with a formaldehyde-free binding agent.

Limitations: Insulation should be kept clean and dry at all times.



DIMENSIONS

CB 110, 150 and 180 insulation boards are available in standard 24" x 48" (610mm x 1219mm) and 32" x 48" (813mm x 1219mm) sizes. CB 110 and CB 150 thicknesses vary from 1.5" (38mm) to 6" (152mm) in ½" (13mm) increments. CB 180 thickness varies from 1.5" (38mm) x 4" (102mm) increments. CB 110 insulation rolls are also available in standard 48" (1219mm) and 72" (1829mm) widths. Thickness varies from 1.5" (38mm) to 4" (127mm) in ½" (13mm) increments. Please contact us for non-standard sizes and to assure information is current.

Facings not available on Semi-Rigid Boards.

NOMINAL DENSITY (ASTM C 303)

CB 110 17.57 Kg/m³ (1.1 lb /ft³)
CB 150 25 Kg/m³ (1.5 lb /ft³)
CB 180 28 Kg/m³ (1.8 lb /ft³)

THERMAL RESISTANCE

@ 75°F (24°C) mean temperature

CB 110 R = 4.0 /in RSI = .70/25.4 mm
CB 150 R = 4.0 /in RSI = .70/25.4 mm
CB 180 R = 4.2 /in RSI = .74/25.4 mm

THERMAL CONDUCTIVITY (ASTM C 177 AND C 518)

CB 110 k = .25 k (SI) = .036
CB 150 k = .25 k (SI) = .036
CB 180 k = .24 k (SI) = .035

| | |
|---------------------|--|
| Product Name | Semi-Rigid Commercial Boards |
| Manufacturer | CertainTeed Corporation |
| Address | P.O. Box 860 Valley Forge, PA 19482-0105 |
| Phone | 610-341-7000 • 800-233-8990 |
| Fax | 610-341-7571 |
| Website | www.certainteed.com/insulation |

TECHNICAL DATA

Applicable Standards

- Model Building Codes:
 - ICC
 - New York City MEA 35-79-M
 - California Quality Standards Reg. No. CA-T024 (PA)
 - City of Los Angeles, RR 8148
- Material Standards:
 - CAN/ULC S-702, Type I
 - ASTM C553, Type I, II & III
 - ASTM C612, Type IA
 - CAN/CGSB-51.10-92, Type II, Class II

Fire Resistance

- Fire Hazard Classification:
 - ASTM E84, UL 723
 - CAN/ULC-S102
 - Max. Flame Spread Index: 25
 - Max. Smoke Developed Index: 50
- Noncombustible:
 - ASTM E-136
 - CAN/ULC S114

Physical/Chemical Properties

- Thermal Performance:
 - ASTM C177 or ASTM C518 / See table on other side
- Acoustical Performance:
 - ASTM C423 / See table on other side
- Operating Limits (Temperature):
 - ASTM C411 / Max. 450°F (232°C)
- Water Vapor Sorption:
 - ASTM C1104 / ≤ 5% by weight
- Corrosiveness:
 - ASTM C665 / Pass
- Fungi Resistance:
 - ASTM C1338 / Pass
- Odor Emission:
 - ASTM C1304 / Pass

Quality Assurance

CertainTeed's commitment to quality and environmental management has ensured the registration of the Athens, Chowchilla and Kansas City plants to ISO 9001:2000 and ISO 14001: 004 standards.

INSTALLATION

Exterior Walls – In warm and humid areas local code regulations may require a vapor retarder to face toward the exterior.

Curtain Walls – Semi-rigid commercial boards are applied to spandrel and pre-cast concrete panels with approved adhesives or mechanical fasteners. Boards may also be installed using hat channels or Z studs. Where a vapor retarder is required, all joints, seams and penetrations must be sealed. Exterior applications require the insulation to be covered with appropriate weather barrier finish. Choice of finish depends on mechanical abuse, weather exposure and appearance requirements.

HVAC/Mechanical – All fabrication, application and installation steps should be in accordance with the requirements of the National Commercial and Industrial Installation Standards (current edition) published by the Midwest Insulation Contractors Association (MICA).

These installation recommendations are general in nature. Other methods are acceptable. Please consult your contractor for recommendations best suited to the application.

AVAILABILITY AND COST

Manufactured and sold throughout the United States and Canada. For availability and cost, contact your local contractor, distributor or call CertainTeed at 800-233-8990.

WARRANTY

Refer to CertainTeed Limited Warranty for Commercial Insulation (30-25-034). Inasmuch as CertainTeed has no control over the installation design, installation workmanship, accessory materials or conditions of application, CertainTeed does not warrant the performance or results of any installation containing its products.

MAINTENANCE

An inspection and preventative maintenance program for the insulation and vapor retarder system is recommended to ensure optimum performance.

TECHNICAL SERVICES

Technical assistance can be obtained either from the local CertainTeed sales representative, or by calling Sales Support Group at 800-233-8990.

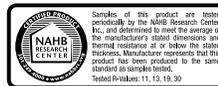
FILING SYSTEMS

- CertainTeed Pub. No. 30-25-056
- Additional product information available upon request.

ACOUSTICAL PERFORMANCE

| Type | Thickness | | Absorption Coefficients @ Octave Band Frequency (Hz) | | | | | | NRC |
|--------|-----------|-----|--|------|------|------|------|------|------|
| | in. | mm | 125 | 250 | 500 | 1000 | 2000 | 4000 | |
| CB 110 | 1½ | 38 | 0.25 | 0.51 | 0.85 | 0.97 | 1.00 | 1.03 | 0.85 |
| | 3½ | 89 | 0.55 | 1.15 | 1.29 | 1.18 | 1.14 | 1.18 | 1.20 |
| | 6 | 153 | 1.09 | 1.45 | 1.26 | 1.13 | 1.11 | 1.10 | 1.25 |
| CB 150 | 1½ | 38 | 0.19 | 0.51 | 0.82 | 0.86 | 0.95 | 0.97 | 0.80 |
| | 2 | 51 | 0.23 | 0.61 | 0.94 | 0.97 | 0.98 | 0.96 | 0.90 |
| | 2½ | 64 | 0.41 | 0.78 | 0.96 | 0.94 | 0.93 | 0.97 | 0.90 |
| | 3 | 76 | 0.41 | 0.94 | 1.07 | 1.01 | 1.00 | 0.97 | 1.00 |
| | 3½ | 89 | 0.60 | 1.08 | 1.09 | 1.02 | 1.04 | 1.06 | 1.05 |
| CB 180 | 4 | 102 | 0.64 | 1.05 | 1.07 | 0.97 | 0.96 | 1.01 | 1.00 |
| | 2 | 51 | 0.31 | 0.92 | 1.18 | 1.15 | .93 | .93 | 1.05 |
| | 2½ | 64 | 0.41 | .89 | 1.22 | 1.24 | 1.16 | 1.18 | 1.15 |
| | 3 | 76 | 0.57 | 1.32 | 1.16 | 1.09 | .95 | 1.01 | 1.15 |

* Estimated sound absorption coefficients and NRC. Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795.



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www.certainteed.com/insulation

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