

## Semi-Rigid Commercial Boards

### 1. PRODUCT NAME

Semi-Rigid Commercial Boards

### 2. MANUFACTURER

CertainTeed Corporation

P.O. Box 860

Valley Forge, PA 19482-0105

Phone: 610-341-7000

800-233-8990

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Website:

www.certainteed.com/insulation

### 3. 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 glass fibers bonded together with a thermoset binder. It is available unfaced.

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

**Sizes:** See table below. Contact CertainTeed for other sizes and minimum order quantities.

### 4. 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
- Limited Combustible:
  - NFPA 259
  - ≤ 3,500 Btu/lb

#### Physical/Chemical Properties:

- Thermal Performance:
  - ASTM C177 or ASTM C518
  - See table at left
- Acoustical Performance:
  - ASTM C423
  - See table on other side
- Operating Limits:
  - Temperature; ASTM C411:
  - Max. 450°F (232°C)

AVAILABLE SIZES/THERMAL PERFORMANCE								
Product Type	Thickness		Density		Thermal Resistance		Thermal Conductivity	
	in.	mm	lb/ft <sup>3</sup>	kg/m <sup>3</sup>	R	RSI	$\frac{\text{Btu} \cdot \text{in}}{\text{h} \cdot \text{ft}^2 \cdot ^\circ\text{F}}$	$\frac{\text{W}}{\text{m} \cdot ^\circ\text{C}}$
CB 110	1½	38	1.1	17.57	6.0	1.06	0.25	0.036
	3½	89	1.1	17.57	14.0	2.47	0.25	0.036
	6	153	1.1	17.57	25.0	4.20	0.25	0.036
CB150	1½	38	1.50	24	6.0	1.06	0.25	0.036
	2	51	1.50	24	8.0	1.41	0.25	0.036
	2½	64	1.50	24	10.0	1.76	0.25	0.036
	3	76	1.50	24	12.0	2.11	0.25	0.036
	3½	89	1.50	24	14.0	2.47	0.25	0.036
	4	102	1.50	24	16.0	2.82	0.25	0.036
CB180	1½	38	1.80	28.8	6.0	1.06	0.24	0.035
	2	51	1.80	28.8	8.0	1.41	0.24	0.035
	2½	64	1.80	28.8	10.0	1.76	0.24	0.035
	3	76	1.80	28.8	12.0	2.11	0.24	0.035
	3½	89	1.80	28.8	14.0	2.47	0.24	0.035
	4	102	1.80	28.8	16.0	2.82	0.24	0.035

- 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 14001:2004 standards.

## 5. 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.

## 6. 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.

## 7. 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.

## 8. MAINTENANCE

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

## 9. TECHNICAL SERVICES

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

## 10. 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
	4	102	0.64	1.05	1.07	0.97	0.96	1.01	1.00
CB 180	2½	64	0.41	0.89	1.22	1.24	1.16	1.18	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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