

## CertaPro® Commercial Board

### PRODUCT DESCRIPTION

**Basic Use:** CertaPro Commercial Board is used to enhance thermal and acoustical performance where board stiffness properties are required. CertaPro Board is used in exterior curtain walls, interior walls and floor/ceiling assemblies, as an exterior insulation on HVAC ducts and plenums or in constructions where framing is not present, and as an exterior insulation when covered with a weather barrier. It is also used as thermal insulation on tanks and vessels.



**Benefits:** CertaPro Board provides high sound absorption and excellent thermal performance. This product contains a minimum of 50% recycled content. The product is offered in a variety of stiffness properties from flexible to rigid and all can be easily cut, handled, fabricated and installed. The product resists mold and mildew and will not rot or deteriorate.

**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.

**Sizes:** Contact CertainTeed for sizes and minimum order quantities.

### INSTALLATION

**Curtain Walls:** CertaPro Board is 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.

**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.

Product Name	CertaPro® Commercial Board
Manufacturer	CertainTeed Corporation
Address	20 Moores Road Malvern, PA 19355
Phone	800-233-8990
Website	<a href="http://www.certainteed.com/technicalinsulation">www.certainteed.com/technicalinsulation</a>

### TECHNICAL DATA

#### Applicable Standards

- Model Building Codes:
  - ICC
  - California Quality Standards
- Material Standards:
  - ASTM C553, CB 150, Type I, II & III
  - ASTM C612, CB110, CB 150, CB 180, CB 225 & CB 250 Type IA; CB 300, CB 450 & CB 600, Type IB
  - CAN/CGSB-51.10-92, CB 150 & CB 225, Type II, Class II; CB 300 & CB 600, Type I, Class II
- GREENGUARD Gold

#### Fire Resistance

- Fire Hazard Classification:
  - ASTM E84, UL 723
  - CAN/ULC-S102-09  
Max. Flame Spread Index: 25  
Max. Smoke Developed Index: 50
- Limited Combustible:
  - NFPA 259 / ≤ 3,500 Btu/lb
  - NFPA 90A & 90B

#### Physical/Chemical Properties

- Thermal Performance:
  - ASTM C177 or ASTM C518 / See table
- Acoustical Performance:
  - ASTM C423 / See table
- Operating Limits (Temperature):
  - ASTM C411 / Max. 250°F (121°C) (Faced);  
Max. 450°F (232°C) (Unfaced)
- Water Vapor Sorption:
  - ASTM C1104 / ≤ 5% by weight
- Corrosiveness:
  - ASTM C665 / Pass
- Fungi Resistance:
  - ASTM C1338 / Pass, No growth
- Odor Emission:
  - ASTM C1304 / Pass
- Flexible Rigidity:
  - ASTM C1101
  - Types 150, 175, 200, 225, semi-rigid
  - Types 300, 400, 450, 600, rigid

## **AVAILABILITY AND COST**

For availability and cost, contact your local contractor or distributor, or call CertainTeed Sales Support Group 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.

AVAILABLE SIZES					THERMAL PERFORMANCE				ACOUSTICAL PERFORMANCE						
Type	Thickness		Density		Thermal Resistance		Thermal Conductivity		Absorption Coefficients @ Octave Band Frequency (Hz)						NRC
	in.	mm	lb/ft <sup>3</sup>	kg/m <sup>3</sup>	R	RSI	$\frac{\text{Btu}\cdot\text{in}}{\text{h}\cdot\text{ft}^2\cdot^{\circ}\text{F}}$	$\frac{\text{W}}{\text{m}^2\cdot^{\circ}\text{C}}$	125	250	500	1000	2000	4000	
CB 110	1½	38	1.10	17.57	6.0	1.06	0.25	0.036	0.25	0.51	0.85	0.97	1.00	1.03	0.85
	3½	89	1.10	17.57	14.0	2.47	0.25	0.036	0.55	1.15	1.29	1.18	1.14	1.18	1.20
	6	153	1.10	17.57	25.0	4.20	0.25	0.036	1.09	1.45	1.26	1.13	1.11	1.10	1.25
CB 150	1½	38	1.50	24	6.0	1.06	0.25	0.036	0.19	0.51	0.82	0.86	0.95	0.97	0.80
	2	51	1.50	24	8.0	1.41	0.25	0.036	0.23	0.61	0.94	0.97	0.98	0.96	0.90
	2½	64	1.50	24	10.0	1.76	0.25	0.036	0.41	0.78	0.96	0.94	0.93	0.97	0.90
	3	76	1.50	24	12.0	2.11	0.25	0.036	0.41	0.94	1.07	1.01	1.00	0.97	1.00
	3½	89	1.50	24	14.0	2.47	0.25	0.036	0.60	1.08	1.09	1.02	1.04	1.06	1.05
CB 180	2	51	1.80	24	8.0	1.41	0.24	0.035	0.31	0.92	1.18	1.15	0.93	0.93	1.05
	3	76	1.80	24	12.0	2.11	0.24	0.035	0.57	1.32	1.16	1.09	0.95	1.01	1.15
CB 225	1	25	2.25	36	4.2	0.73	0.24	0.035	0.06	0.30	0.68	0.85	0.91	0.94	0.70
	1½	38	2.25	36	6.3	1.10	0.24	0.035	0.12	0.48	0.83	0.90	0.90	0.89	0.80
	2	51	2.25	36	8.3	1.47	0.24	0.035	0.22	0.63	1.04	1.00	1.00	0.97	0.90
	2½	64	2.25	36	10.4	1.83	0.24	0.035	0.31*	0.81*	1.08*	1.02*	1.04*	1.03*	1.00*
	3	76	2.25	36	12.5	2.19	0.24	0.035	0.34	0.95	1.08	0.99	0.98	0.99	1.00
	3½	89	2.25	36	14.6	2.56	0.24	0.035	0.54	1.11	1.12	1.01	1.02	1.00	1.05
CB 250	1	25	2.50	40	4.2	0.73	0.24	0.035	0.05	0.25	0.66	0.98	1.04	1.07	0.75
	2	51	2.50	40	8.3	1.47	0.24	0.035	0.21	0.79	1.21	1.14	1.09	1.07	1.05
CB 300	1	25	3.00	48	4.3	0.77	0.23	0.033	0.08	0.25	0.72	0.88	0.93	0.94	0.70
	1½	38	3.00	48	6.5	1.15	0.23	0.033	0.10	0.51	0.89	0.95	0.92	0.93	0.80
	2	51	3.00	48	8.7	1.53	0.23	0.033	0.21	0.73	1.08	1.04	1.04	0.96	0.95
	2½	64	3.00	48	10.9	1.92	0.23	0.033	0.31	0.81	1.08	1.02	1.04	1.03	1.00
	3	76	3.00	48	13.0	2.30	0.23	0.033	0.41	0.96	1.13	1.03	1.03	1.02	1.05
	3½	89	3.00	48	15.2	2.68	0.23	0.033	0.72	1.14	1.11	1.00	1.02	1.00	1.05
CB 450	1	25	4.50	72	4.5	0.80	0.22	0.032	0.09	0.33	0.79	1.06	1.07	1.06	0.80
	2	51	4.50	72	9.1	1.6	0.22	0.032	0.32	0.95	1.19	1.11	1.04	1.02	1.05
CB 600	1	25	6.00	96	4.5	0.80	0.22	0.032	0.05	0.27	0.78	0.97	0.97	0.91	0.75
	1½	38	6.00	96	6.8	1.20	0.22	0.032	0.17	0.50	0.98	1.03	0.99	0.98	0.90
	2	51	6.00	96	9.1	1.60	0.22	0.032	0.31	0.89	1.07	0.99	1.02	0.98	1.00

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

Product availability may vary and is subject to change. Please contact your CertainTeed representative for more information.



**CertainTeed Corporation**

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