

## CertaPRO® Commercial Board

### PRODUCT DESCRIPTION

**Basic Use:** CertaPro Commercial Board is used 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 also functions 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; all can be easily cut, handled, fabricated and installed. The vapor retarder facing provides abuse resistance. The ASJ and FSK facings provide vapor retarder performance and an E-84 Class A surface that may be left exposed.

**Composition and Materials:** The product is composed of glass fibers bonded together with a thermoset binder. It is available unfaced or with a foil-scrim-kraft (FSK) or white kraft-scrim-foil (ASJ) facing adhered to the fiber glass board.

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

**Sizes:** See table on next page. Contact CertainTeed for other sizes and minimum order quantities.

### INSTALLATION

**Exterior Walls:** The faced side of the board should be installed toward the interior side of the structure, except in warm and humid areas where local code regulations may require a vapor retarder to face toward the exterior.

**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. 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 in addition to the factory-applied vapor retarder facing. Choice of finish depends on mechanical abuse, weather exposure and appearance requirements.

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:
  - CAN/ULC S-702, Type I
  - ASTM C553  
CB 150, Type I, II & III
  - ASTM C612  
CB 110, CB 150, CB 180, CB 225 & CB 250, Type IA  
CB 300 & CB 600, Types IA & IB
  - CAN/CGSB-51.10-92  
CB 150 & CB 225, Type II, Class II  
CB 300, CB 450 & CB 600, Type I, Class I

#### Fire Resistance

- Fire Hazard Classification:
  - UL 723 unfaced
  - CAN/ULC-S102 unfaced
  - E-84 FSK faced
- 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 177 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)
- Permeance:
  - Water Vapor:
    - ASTM E96, Dessicant Method  
Max. 0.02 perms (1.15 x 10<sup>-9</sup> g/Pa•s•m<sup>2</sup>)  
(ASJ and FSK Facing)
- Vapor Retarder Permeance:
  - ASTM C1136  
ASJ Type I  
FSK & WMP 10, Type II
- Water Vapor Sorption:
  - ASTM C1104 ≤ 5% by weight
- Corrosiveness:
  - ASTM C665: Pass (steel, aluminum or copper)
- Fungi Resistance:
  - ASTM C1338: Pass
- Odor Emission:
  - ASTM C1304: Pass
- Flexible Rigidity:
  - ASTM C1101:  
Type 150, flexible  
Type 225, 300 semi-rigid  
Type 600, rigid

**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.

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	1.1	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	1.1	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	1.1	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	1.60	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

All/Service/Jacket (ASJ facing) is not available in Type CB 150.  
 CB 110, 150 and 600 are not available in FSK, WMP or ASJ facings.

\* Estimated sound absorption coefficients and NRC. Sound absorption tested in accordance with ASTM C425 using Type A mounting per ASTM E795.



**CertainTeed Corporation**

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