

CertaPro® Commercial Board

PRODUCT DESCRIPTION

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



Product Name	CertaPro® Commercial Board
Manufacturer	CertainTeed Corporation
Address	20 Moores Road Malvern, PA 19355
Phone	610-893-6000 • 800-233-8990
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
CB 150, Type I, II & III
 - ASTM C612
CB 150 & CB 225, 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 600, Type I, Class I

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 C117 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 Permeance:
 - ASTM E96, Dessicant Method
Max. 0.02 perms (1.15 x 10⁻² g/Pa•s•m²)
(ASJ and FSK Facing)
- 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 was the first fiber glass insulation manufacturer to have its manufacturing plants, R&D center and corporate headquarters registered to ISO 9001-2000 standards.

AVAILABLE SIZES/THERMAL PERFORMANCE

TYPE	THICKNESS		DENSITY		THERMAL RESISTANCE		THERMAL CONDUCTIVITY	
	in.	mm	lb./ft ³	kg/m ³	R	RSI	$\frac{\text{Btu}\cdot\text{in}}{\text{h}\cdot\text{ft}^2\cdot\text{F}}$	$\frac{\text{W}}{\text{m}\cdot\text{C}}$
CB 110	1-1/2	38	1.1	17.57	6.0	1.06	0.25	0.036
	3-1/2	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
CB 150	1-1/2	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
	2-1/2	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
	3-1/2	89	1.50	24	14.0	2.47	0.25	0.036
CB 180	1-1/2	38	1.80	24	6.0	1.06	0.24	0.035
	2	51	1.80	24	8.0	1.41	0.24	0.035
	2-1/2	64	1.80	24	10.0	1.76	0.24	0.035
	3	76	1.80	24	12.0	2.11	0.24	0.035
	3-1/2	89	1.80	24	14.0	2.47	0.24	0.035
CB 225	1	25	2.25	36	4.2	0.73	0.24	0.035
	1-1/2	38	2.25	36	6.3	1.10	0.24	0.035
	2	51	2.25	36	8.3	1.47	0.24	0.035
	2-1/2	64	2.25	36	10.4	1.83	0.24	0.035
	3	76	2.25	36	12.5	2.19	0.24	0.035
CB 250	1	25	2.50	40	4.2	0.73	0.24	0.035
	2	51	2.50	40	8.3	1.47	0.24	0.035
	1	25	3.00	48	4.3	0.77	0.23	0.033
	1-1/2	38	3.00	48	6.5	1.15	0.23	0.033
	2	51	3.00	48	8.7	1.53	0.23	0.033
CB 300	2-1/2	64	3.00	48	10.9	1.92	0.23	0.033
	3	76	3.00	48	13.0	2.30	0.23	0.033
	3-1/2	89	3.00	48	15.2	2.68	0.23	0.033
	4	102	3.00	48	17.4	3.06	0.23	0.033
CB 450	1	25	4.50	72	4.5	0.80	0.22	0.032
	2	51	4.50	72	9.1	1.60	0.22	0.032
CB 600	1	25	6.00	96	4.5	0.80	0.22	0.032
	1-1/2	38	6.00	96	6.8	1.20	0.22	0.032
	2	51	6.00	96	9.1	1.60	0.22	0.032

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.

ACOUSTICAL PERFORMANCE

TYPE	THICKNESS		ABSORPTION COEFFICIENTS @ OCTAVE BAND FREQUENCY (Hz)						NRC
	in.	mm	125	250	500	1000	2000	4000	
CB 110	1-1/2	38	0.25	0.51	0.85	0.97	1.00	1.03	0.85
	3-1/2	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	1-1/2	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
	2-1/2	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
	3-1/2	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
	2½	64	0.41	0.89	1.22	1.24	1.16	1.18	1.15
	1	25	0.06	0.30	0.68	0.85	0.91	0.94	0.70
CB 225	1½	38	0.12	0.48	0.83	0.90	0.90	0.89	0.80
	2	51	0.22	0.63	1.04	1.00	1.00	0.97	0.90
	2½	64	0.31*	0.81*	1.08*	1.02*	1.04*	1.03*	1.00*
	3	76	0.34	0.95	1.08	0.99	0.98	0.99	1.00
	3½	89	0.54	1.11	1.12	1.01	1.02	1.00	1.05
CB 250	4	102	0.70	1.15	1.12	0.99	1.01	1.08	1.05
	1	25	0.05	0.25	0.66	0.98	1.04	1.07	0.75
	2	51	0.21	0.79	1.21	1.14	1.09	1.07	1.05
CB 300	1	25	0.08	0.25	0.72	0.88	0.93	0.94	0.70
	1½	38	0.10	0.51	0.89	0.95	0.92	0.93	0.80
	2	51	0.21	0.73	1.08	1.04	1.04	0.96	0.95
	2½	64	0.31	0.81	1.08	1.02	1.04	1.03	1.00
	3	76	0.41	0.96	1.13	1.03	1.03	1.02	1.05
CB 450	3½	89	0.72	1.14	1.11	1.00	1.02	1.00	1.05
	4	102	0.75	1.18	1.09	1.00	1.00	1.02	1.05
	1	25	0.09	0.33	0.79	1.06	1.07	1.06	0.80
	2	51	0.32	0.95	1.19	1.11	1.04	1.02	1.05
CB 600	1	25	0.05	0.27	0.78	0.97	0.97	0.91	0.75
	1½	38	0.17	0.50	0.98	1.03	0.99	0.98	0.90
	2	51	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.

Benefits: CertaPro Board provides high sound absorption and excellent thermal performance. This product contains a minimum of 60% 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 a 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 at left. 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.

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.



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