

CertainTeed

Specification Sheet

CERTAPRO™ Commercial Board

1. PRODUCT NAME

CERTAPro™ Commercial Board

2. MANUFACTURER

CertainTeed Corporation

P.O. Box 860

Valley Forge, PA 19482-0105

Phone: (610) 341-7000

(800) 233-8990

Fax: (610) 341-7571

Fax-On-Demand: (800) 947-0057

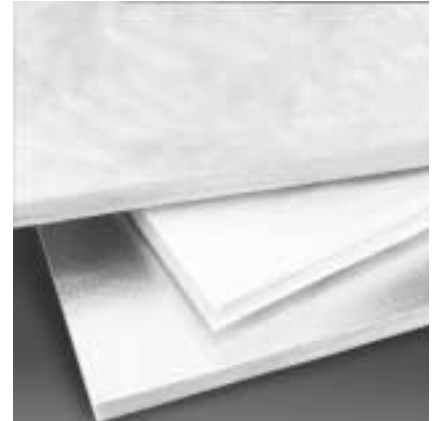
Website: www.certainteed.com

3. PRODUCT DESCRIPTION

Basic Use: CertaPro Commercial Board is used where board stiffness

properties are required and also functions as an exterior insulation when covered with a weather barrier. Commercial Board is used in exterior curtain walls, interior walls, 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.

Benefits: CertaPro Commercial Board provides high sound absorption and excellent thermal performance. The product is offered in a variety of stiffness properties from flexible to rigid and all can be easily cut, handled, fab-



ricated and installed. The vapor retarder facing provides abuse resistance. All commercial boards are UL listed. The UL listed ASJ and FSK facings for surface burning characteristics provide vapor retarder performance and a Class A surface which 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 to the left. Contact CertainTeed for other sizes and minimum order quantities.

4. TECHNICAL DATA

Applicable Standards

- Model Building Codes:
 - (BOCA, ICBO, SBCCI, CABO, ICC)
 - New York City MEA 35-79-M
 - California Quality Standards. Reg. No. CA-T024 (PA)
 - City of Los Angeles, RR 8148
- Material Standards:
 - (ASTM C 553) CB 150, Type I, II & III
 - (ASTM C 612) 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, Types I, Class II

AVAILABLE SIZES								
Product Type	Thickness		Density		Thermal Resistance		Thermal Conductivity	
	in.	mm	Lb/ft ³	Kg/m ³	R	RSI	Btu*in	W
							(h*in. ² *°F)	(m ² *C)
CB 150	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
CB 225	1	25	2.25	36	4.3	0.77	0.23	0.033
	1½	38	2.25	36	6.5	1.15	0.23	0.033
	2	51	2.25	36	8.7	1.53	0.23	0.033
	2½	64	2.25	36	10.9	1.91	0.23	0.033
	3	76	2.25	36	13.0	2.30	0.23	0.033
	3½	89	2.25	36	15.2	2.68	0.23	0.033
CB 300	1	25	3.00	48	4.3	0.77	0.23	0.033
	1½	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
	2½	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
	3½	89	3.00	48	15.2	2.68	0.23	0.033
CB 600	1	25	6.00	96	4.5	0.80	0.22	0.032
	1½	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
	2½	64	6.00	96	11.4	2.00	0.22	0.032
	3	76	6.00	96	13.7	2.40	0.22	0.032
	3½	89	6.00	96	16.0	2.80	0.22	0.032

All/Service/Jacket (ASJ facing) is not available in Type CB 150.

Fire Resistance:

- Fire Hazard Classification:
 - (ASTM E 84, UL 723, NFPA 255)
 - (CAN/ULC-S102-M88)
 - Max. Flame Spread Index; 25
 - Max Smoke Developed Index; 50
- Limited Combustible:
 - (NFPA 259)
 - ≤ 3,500 Btu/lb

Physical/Chemical Properties:

- Thermal Performance:
 - (ASTM C 177 or ASTM C 518)
 - See available size table.
- Acoustical Performance:
 - (ASTM C 423)
 - See table below.
- Operating Limits:
 - Temperature: (ASTM C 411)
 - Max. 250°F (121°C) (Faced)
 - Max. 450°F (232°C) (Unfaced)
- Water Vapor Permeance:
 - (ASTM E 96, Dessicant Method)
 - Max. 0.02 perms
 - (1.15 x 10⁻⁹ g/Pa-s-m²)
 - (ASJ & FSK Facing)

- Water Vapor Sorption:
 - (ASTM C 1104)
 - ≤ 3% by weight
- Corrosiveness: (ASTM C 665)
 - Pass
- Fungi Resistance: (ASTM C 1338)
 - Pass
- Odor Emission: (ASTM C 1304)
 - 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 9000 standards.

5. INSTALLATION

Exterior Walls – the faced side of the board should be installed towards 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 Commercial 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 shall 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 applications.

6. AVAILABILITY AND COST

Manufactured and sold throughout the United States. 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, (800) 233-8990.

10. FILING SYSTEMS

- CertainTeed Pub. No. 30-25-031
- 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 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 225	1	25	0.06	0.30	0.68	0.85	0.91	0.94	0.70
	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
	4	102	0.70	1.15	1.12	0.99	1.01	1.08	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
	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
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 C 423 using Type A mounting per ASTM E 795.

