

CertaPro™ Commercial Board

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 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.



Benefits: CertaPro Commercial 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 and all can be easily cut, handled, fabricated and installed.

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: See table on other side. 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 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 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 or 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.

Product Name	CertaPro™ Commercial Board
Manufacturer	CertainTeed Corporation
Address	P.O. Box 860 Valley Forge, PA 19482-0105
Phone	610-341-7000 • 800-233-8990
Fax	610-341-7571
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 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 on other side
- Acoustical Performance:
 - ASTM C423 / See table on other side
- 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 10⁻⁹ 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

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.

Type	AVAILABLE SIZES				THERMAL PERFORMANCE				ACOUSTICAL PERFORMANCE						NRC
	Thickness		Density		Thermal Resistance		Thermal Conductivity		Absorption Coefficients @ Octave Band Frequency (Hz)						
	in.	mm	Lb/ft ³	Kg/m ³	R	RSI	Btu•in (h•ft ² •°F)	W (m•°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
	4	102	1.50	24	16.0	2.82	0.25	0.036	0.64	1.05	1.07	0.97	0.96	1.01	1.00
CB 180	1½	38	1.50	24	6.0	1.06	0.24	0.035	–	–	–	–	–	–	–
	2	51	1.50	24	8.0	1.41	0.24	0.035	–	–	–	–	–	–	–
	2½	64	1.50	24	10.0	1.76	0.24	0.035	0.41	.89	1.22	1.24	1.16	1.18	1.15
	3	76	1.50	24	12.0	2.11	0.24	0.035	–	–	–	–	–	–	–
	3½	89	1.50	24	14.0	2.47	0.24	0.035	–	–	–	–	–	–	–
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
	4	102	2.25	36	16.6	2.91	0.24	0.035	0.70	1.15	1.12	0.99	1.01	1.08	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
	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 C423 using Type A mounting per ASTM E795.



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CertainTeed Corporation
 P.O. Box 860
 Valley Forge, PA 19482

Professional: 800-233-8990
 Consumer: 800-782-8777
www.certainteed.com/insulation

