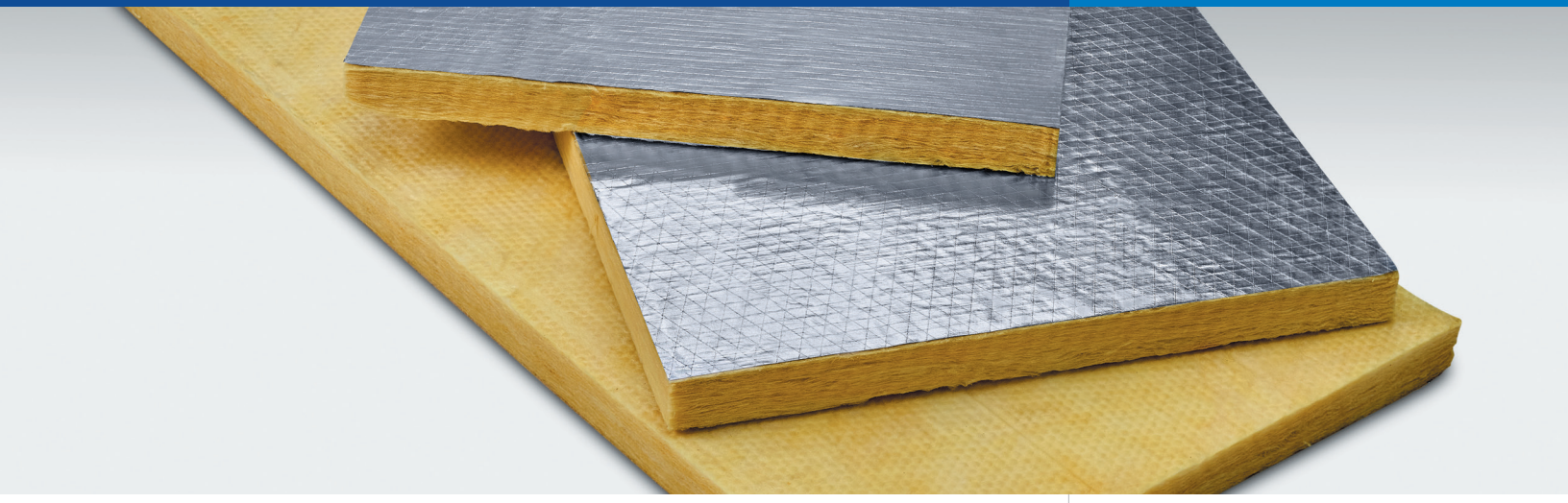
CertaPRO® COMMERCIAL BOARD

BOARD INSULATION



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.

FEATURES & 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.

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

For availability and cost, contact your local contractor or distributor, or call Customer Experience team at 800-233-8990.

APPLICABLE STANDARDS

Model Building Codes:

- ICC
- California Quality Standards

Material Standards:

- CAN/ULC S702, 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

CertainTeed
SAINT-GOBAIN

AVAILABLE SIZES					THERMAL PERFORMANCE				ACOUSTICAL PERFORMANCE						
TYPE	THICKNESS		DENSITY		THERMAL RESISTANCE		THERMAL CONDUCTIVITY		ABSORPTION COEFFICIENTS @ OCTAVE BAND FREQUENCY (HZ)						NRC
	in.	mm	Lb/ft³	Kg/m³	R	RSI	Btu•in / (h•ft²•°F)	W / (m•°C)	125	250	500	1000	2000	4000	
CB 110	1-1/2	38	1.1	17.57	6.0	0.83	0.25	0.036	0.25	0.51	0.85	0.97	1.00	1.03	0.85
	3-1/2	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	1-1/2	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	5.2	0.91	0.25	0.036	0.23	0.61	0.94	0.97	0.98	0.96	0.90
	2-1/2	64	1.50	24	6.9	1.21	0.25	0.036	0.41	0.78	0.96	0.94	0.93	0.97	0.90
	3	76	1.50	24	10.3	1.82	0.25	0.036	0.41	0.94	1.07	1.01	1.00	0.97	1.00
	3-1/2	89	1.50	24	13.8	2.43	0.25	0.036	0.60	1.08	1.09	1.02	1.04	1.06	1.05
	4	102	1.50	24	3.8	0.68	0.25	0.036	0.64	1.05	1.07	0.97	0.96	1.01	1.00
CB 180	2	51	1.80	24	8.0	1.41	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	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
	1-1/2	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
	2-1/2	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
	3-1/2	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
	1-1/2	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
	2-1/2	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
	3-1/2	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
	4	102	3.00	48	17.4	3.06	0.23	0.033	0.75	1.18	1.09	1.00	1.00	1.02	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
	1-1/2	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

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 10-9 g/Pa•s•m2)
(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

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.

WARRANTY

Refer to CertainTeed Limited Warranty for Mechanical and Industrial Products (30-32-113). 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 from your local CertainTeed sales representative and our Customer Experience team, 800-233-8990, or GetHelp@saint-gobain.com.

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