certainteed
SAINT-GOBAIN

Technical Insulation

Product Selection Guide

SAINT-GOBAIN

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Solutions for Your Every Challenge

Inside this catalog you'll discover how CertainTeed's comprehensive line of Technical Insulation can help you to meet the challenges of today's market.

With customer service that's second to none, we're focused on building your business success by delivering the right products on time, every time. Through our global team of researchers and building scientists, we offer the technical support and one-on-one assistance that enables you to find the right insulation solution for every project.

To learn more about the many services we provide to our partners, talk to your CertainTeed representative or give us a call. We're always happy to hear from you.

Condensation Control

In the cooling months, duct systems that are run through ceilings or walls typically carry air that is much colder than the surrounding air; if the space humidity is high enough, the duct surface may reach dewpoint and "sweat."

If the ducts sweat enough the result can be corrosion, damaged ceilings and potential for microbial growth on the wet surfaces. In the case of duct wrap, proper sealing of the exterior vapor retarder jacket with tapes or sealant systems is essential.

Our Commitment To Sustainability

CertainTeed takes pride in providing the best solutions to make the spaces where we work, live, and play healthier, safer, and more comfortable.

Since early last century, our ongoing mission is to create innovative solutions that improve energy efficiency and comfort—always in the context of responsible environmental stewardship.

Preservation of resources through industrial ecology—environmentally sound manufacturing processes, energy and water management, waste reduction—is paramount.

Our pledge to product stewardship means our design teams use lifecycle thinking to improve the sustainability of a product. Many of CertainTeed's insulation products can help building professionals qualify toward credits for LEED® through the U.S. Green Building Council (USGBC) and the National Association of Home Builders' Green Building (NAHB) Program. They also contribute to the Living Building Challenge, WELL, and regional sustainability programs.

See how we fare by visiting
https://saintgobain.ecomedes.com

CertainTeed Words Into Action

- Our L'Anse, Michigan ceilings plant obtains its electricity from a nearby biomass-fueled power plant. Waste heat from the biomass plant is utilized in the manufacturing process.
- Our vinyl fence, decking, and railing products are manufactured using 100% hyrdropower.
- Our take-back program for end-of-life and job-site scrap vinyl siding helps eliminate landfill waste. Some of the material is recycled into our siding products.
- CertainTeed insulation products use a high amount of both pre- and post-consumer recycled content.
- Many CertainTeed interior products, such as insulation, gypsum, and ceilings, have third-party verified Environmental Product Declarations.

Insulation Benefits

Thermal Performance

High efficiency fiberglass insulation enables you to significantly improve the thermal performance of your buildings.

Acoustic Performance

Adding insulation helps prevent unwanted outside noise from penetrating interior spaces, and — when added to interior walls — limits transmission of noise from room to room.

Superior Moisture Protection

Beyond traditional facings, vapor retarders can help reduce the risk of mold and mildew, improving indoor air quality and providing a healthier environment for occupants. There's also less chance you'll be called back to deal with moisture problems.

Sustainable Insulation Soft Touch™ Duct Wrap

SoftTouch™ Duct Wrap provide thermal efficiency that reduces unwanted heat loss or gain from equipment and ductwork. When properly installed in the correct thickness, this product virtually eliminates condensation problems on cold duct surfaces.

Installation Stretch-Out Dimensions

PRODUCT LABEL THICKNESS		AVERAGE INSTALLED THICKNESS			STRETCH-OUT DIMENSIONS[1]					
					ROUND DUCT		SQUARE DUCT		RECTANGULAR DUCT	
IN	MM	IN	MM		IN	MM	IN	MM	IN	MM
1	25	0.75	19	P+	7	178	6	152	5	127
1-1/2	38	1.13	29	P+	9.5	241	8	203	7	178
2	51	1.50	38	P+	12	305	10	254	8	203
2-1/8	54	1.59	40	P+	12.6	321	10.4	270	8.4	213
3	76	2.25	57	P+	17	432	14.5	368	11.5	292
4	102	3.00	76	P+	22	559	18.5	470	14.5	368
4-1/2	114	3.375	86	P+	24.5	622	20.7	526	16.1	408

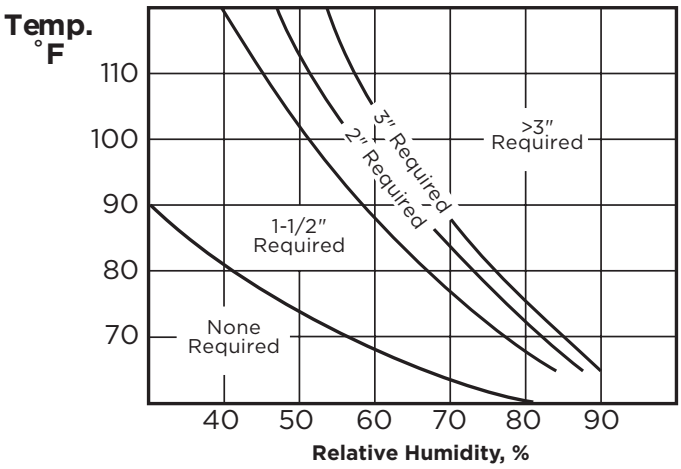
[1]The stretch-out dimension is equal to the duct perimeter (P) plus the add-on factor for the type of duct being installed.

Thermal Performance

	PRODUCT		UNCOMPRESSED R-VALUE		INSTALLED DUCT R-VALUE		UNCOMPRESSED K-VALUE		INSTALLED DUCT K-VALUE	
TYPE	THICKNESS		$H•FT^2•°F$ BTU	$M^2•°C$ W	$H•FT^2•°F$ BTU	$M^2•°C$ W	BTU•IN $H•FT^2•°F$	W M•°C	BTU•IN $H•FT^2•°F$	W M•°C
	IN	MM								
75	1	25	3.4	0.61	2.8	0.49	0.29	0.042	0.27	0.039
	1-1/2	38	5.2	0.91	4.2	0.74	0.29	0.042	0.27	0.039
	2	51	6.9	1.21	5.6	1.00	0.29	0.042	0.27	0.039
	2-1/8	54	7.3	1.29	6.0	1.06	0.29	0.042	0.27	0.039
	3	76	10.3	1.82	8.3	1.46	0.29	0.042	0.27	0.039
	4	102	13.8	2.43	11.0	1.94	0.29	0.042	0.27	0.039
	4-1/2	114	15.2	2.68	12	2.11	0.30	0.043	0.28	0.041
100	1	25	3.8	0.68	3.0	0.53	0.26	0.038	0.25	0.036
	1-1/2	38	5.8	1.02	4.5	0.79	0.26	0.038	0.25	0.036
	2	51	7.7	1.35	6.0	1.06	0.26	0.038	0.25	0.036
150	1	25	4.2	0.73	3.2	0.56	0.24	0.035	0.23	0.033
	1-1/2	38	6.3	1.10	4.8	0.85	0.24	0.035	0.23	0.033
	2	51	8.3	1.47	6.4	1.13	0.24	0.035	0.23	0.033

Tested in accordance with ASTM C518 and/or ASTM C177 at 75°F (24°C) mean temperature. R means resistance to heat flow. The higher the R-value, the greater the insulating power. The installed R-value and K-value are based upon 25% compression of the product thickness during installation. To get the installed R-value, it is essential that this insulation be installed properly. If you do it yourself, follow the installation instructions carefully.

Condensation Control



This chart is based on indoor conditions so far as wind and other factors are concerned.

To determine thickness to prevent condensation, based on installed thickness at 75% of nominal (outof- package) thickness and a duct internal air temperature of 55˚F, refer to the condensation control chart.

To use:
1) Select maximum relative humidity (%) on lower axis;
2) Read up vertically until that line intersects the maximum ambient air temperature;
3) Select the thickness indicated at the point of intersection.

Available Sizes

Available standard sizes are listed in the table. Contact CertainTeed for non-standard sizes.

TYPE	THICKNESS		LENGTH		WIDTH	
	IN	MM	FT	M	IN	MM
75	1	25	100	30.5	48	1219
	1-1/2	38	100	30.5		
	2	51	75	22.9		
	2-1/8	54	75	22.9		
	3	76	50	15.2		
	4	102	50	15.2		
100	4-1/2	114	40	12.2		
	1	25	100	30.5		
	1-1/2	38	100	30.5		
	2	51	75	22.9		
150	1	25	100	30.5		
	1 1/2	38	75	22.9		
	2	51	50	15.2		

Opting for CertainTeed SoftTouch™ Duct Wrap brings several compelling benefits. It is crafted using top-quality materials and construction techniques, ensuring durability and effectiveness. A robust warranty provides peace of mind, and it is backed by the reputation of CertainTeed, a trusted leader in building materials.

If you're seeking a high-performance insulation and protection solution for HVAC ductwork, CertainTeed SoftTouch™ Duct Wrap is the ideal choice. With its superior thermal insulation, noise reduction, resistance to corrosion and mold, and straightforward installation, it not only saves on energy bills but also elevates comfort and shields your HVAC system from potential damage.

CertaPro® Duct Wrap

CertaPro® Duct Wrap is used to insulate rectangular and round heating, ventilating and air-conditioning ductwork.

CertaPro Duct Wrap provides thermal efficiency that reduces unwanted heat loss or gain from equipment and ductwork. When properly installed in the correct thickness, this product virtually eliminates condensation problems on cold duct surfaces. The 4' width accommodates larger ducts and means less labor, less wasted material and a cleaner installed appearance.

Installation Stretch-Out Dimensions

PRODUCT LABEL THICKNESS		AVERAGE INSTALLED THICKNESS			STRETCH-OUT DIMENSIONS[1]					
					ROUND DUCT		SQUARE DUCT		RECTANGULAR DUCT	
IN	MM	IN	MM		IN	MM	IN	MM	IN	MM
1	25	0.75	19	P+	7	178	6	152	5	127
1-1/2	38	1.13	29	P+	9.5	241	8	203	7	178
2	51	1.50	38	P+	12	305	10	254	8	203
2-1/8	54	1.59	40	P+	12.6	321	10.4	270	8.4	213
3	76	2.25	57	P+	17	432	14.5	368	11.5	292
4	102	3.00	76	P+	22	559	18.5	470	14.5	368
4-1/2	114	3.375	86	P+	24.5	622	20.7	526	16.1	408

[1]The stretch-out dimension is equal to the duct perimeter (P) plus the add-on factor for the type of duct being installed.

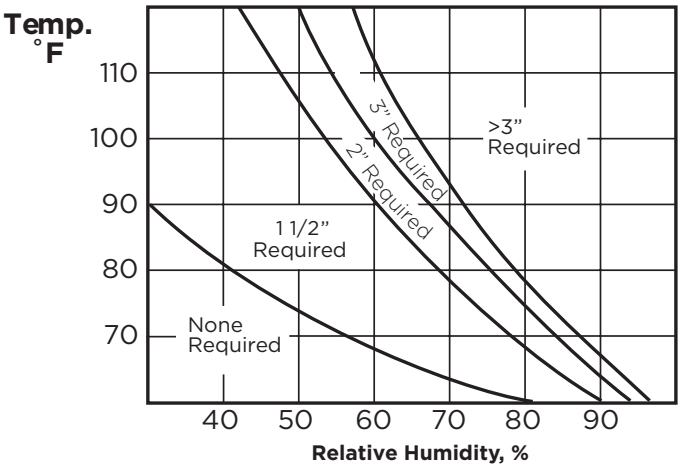
Check with your local distributor for CertaPro Duct Wrap availability.

CertaPro Duct Wrap Thermal Performance

THERMAL PERFORMANCE										
PRODUCT			UNCOMPRESSED R-VALUE		INSTALLED DUCT R-VALUE		UNCOMPRESSED K-VALUE		INSTALLED DUCT K-VALUE	
TYPE	THICKNESS		$H•FT^2•°F$ BTU	$M^2•°C$ W	$H•FT^2•°F$ BTU	$M^2•°C$ W	BTU•IN $H•FT^2•°F$	W M•°C	BTU•IN $H•FT^2•°F$	W M•°C
	IN	MM								
75	1	25	3.4	0.61	2.8	0.49	0.29	0.042	0.27	0.039
	1-1/2	38	5.2	0.91	4.2	0.74	0.29	0.042	0.27	0.039
	2	51	6.9	1.21	5.6	1.00	0.29	0.042	0.27	0.039
	2-1/8	54	7.3	1.29	6.0	1.06	0.29	0.042	0.27	0.039
	3	76	10.3	1.82	8.3	1.46	0.29	0.042	0.27	0.039
	4	102	13.8	2.43	11.0	1.94	0.29	0.042	0.27	0.039
	4-1/2	114	15.2	2.68	12	2.11	0.30	0.043	0.28	0.041
100	1	25	3.8	0.68	3.0	0.53	0.26	0.038	0.25	0.036
	1-1/2	38	5.8	1.02	4.5	0.79	0.26	0.038	0.25	0.036
	2	51	7.7	1.35	6.0	1.06	0.26	0.038	0.25	0.036
150	1	25	4.2	0.73	3.2	0.56	0.24	0.035	0.23	0.033
	1-1/2	38	6.3	1.10	4.8	0.85	0.24	0.035	0.23	0.033
	2	51	8.3	1.47	6.4	1.13	0.24	0.035	0.23	0.033

Tested in accordance with ASTM C518 and/or ASTM C177 at 75°F (24°C) mean temperature. R means resistance to heat flow. The higher the R-value, the greater the insulating power. The installed R-value and K-value are based upon 25% compression of the product thickness during installation. To get the installed R-value, it is essential that this insulation be installed properly. If you do it yourself, follow the installation instructions carefully.

Condensation Control



This chart is based on indoor conditions so far as wind and other factors are concerned.

To determine thickness to prevent condensation, based on installed thickness at 75% of nominal (out of- package) thickness and a duct internal air temperature of 55˚F, refer to the condensation control chart.

To use:
1) Select maximum relative humidity (%) on lower axis;
2) Read up vertically until that line intersects the maximum ambient air temperature;
3) Select the thickness indicated at the point of intersection.

CertaPro Duct Wrap Available Sizes

Available standard sizes are listed in the table. Contact CertainTeed for non-standard sizes.

TYPE	THICKNESS		LENGTH		WIDTH	
	IN	MM	FT	M	IN	MM
75	1	25	100	30.5	48 (Duct Wrap)	1219 (Duct Wrap)
	1-1/2	38	100	30.5		
	2	51	75	22.9		
	2-1/8	54	75	22.9		
	3	76	50	15.2		
	4	102	50	15.2		
	4-1/2	114	40	12.2		
100	1	25	100	30.5		
	1-1/2	38	100	30.5		
	2	51	75	22.9		
150	1	25	100	30.5		
	1-1/2	38	75	22.9		
	2	51	50	15.2		

ToughGard® R Duct Liner and Board

ToughGard® Duct Liner and Ultra Duct Black Duct Board feature CertainTeed's exclusive ToughGard facing. Designed for exceptional thermal and acoustical performance, ToughGard is a tough, durable airstream surface containing an EPA-registered antimicrobial agent to help reduce the potential of microbial growth. ToughGard's low air-friction loss and excellent thermal and acoustical insulating properties provide quiet and efficient HVAC system operation.

ToughGard® R Duct Liner

ToughGard® R rotary duct liner offers outstanding thermal and acoustical performance in duct liner applications. Composed of rotary-type glass fibers, it features a durable, moisture-resistant air stream surface with an antimicrobial agent and a sustainable base mat. Note: The antimicrobial properties are intended to only protect this product. ToughGard® R absorbs unwanted crosstalk and equipment noises while helping to lower HVAC operating costs by reducing heat gain and heat loss in duct systems.

ToughGard® R Duct Liner Thermal Performance

PRODUCT	THICKNESS		K-VALUE		C-VALUE		R-VALUE	
Type	in.	mm.	Btu•in/h•ft²•°F	W/m•°C	Btu•in/h•ft²•°F	W/m•°C	h•ft²•°F/Btu	m²•°C/W
150	1	25	0.24	0.035	0.24	1.36	4.2	0.73
	1-1/2	38	0.24	0.035	0.16	0.91	6.3	1.10
	2	51	0.24	0.035	0.12	0.68	8.3	1.47
200	1/2	13	0.24	0.035	0.48	2.73	2.1	0.37

Thermal conductance (C) and resistance (R) values are derived from the material thermal conductivity (k) value.
Tested in accordance with ASTM C518 and/or ASTM C177 at 75° F (24° C) mean temperature.

ToughGard® R Duct Liner Acoustical Performance

PRODUCT	THICKNESS		ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (HZ)						
Type	in.	mm.	125	250	500	1000	2000	4000	NRC
150	1	25	0.18	0.36	0.59	0.86	0.95	0.90	0.70
	1-1/2	38	0.35	0.51	0.83	0.93	0.97	0.96	0.80
	2	51	0.34	0.64	0.96	1.03	1.00	1.03	0.90
200	1/2	13	0.09	0.14	0.40	0.60	0.73	0.84	0.45

Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795.

ToughGard® R Duct Liner Physical Properties

PROPERTIES	PERFORMANCE	TEST METHOD
Operating Limits: Temperature Air Velocity	Maximum: 250°F (121°C) 6000 fpm (30.5 m/s)	ASTM C411, ASTM C1071, UL 181
Surface Burning Characteristics (Fire Hazard Classification)	Maximum: Flame Spread Index: 25 Smoke Developed Index: 50	ASTM E84, UL 723, CAN/ULC-S102
Water Vapor Sorption	< 5% by Weight	ASTM C1104
Corrosion Resistance	Pass	ASTM C665
Fungi Resistance	Pass; No growth	ASTM C1338, ASTM G21
Limited Combustible	< 3500 Btu/lb)	NFPA 259

ToughGard® R Duct Liner Typical Sizes

PRODUCT	DENSITY	NOMINAL THICKNESS		LENGTH		WIDTH*	
Type	pcf	in.	mm	ft.	m	in.	mm
150	1.5 (24 kg/m3)	1	25	50–100	15.2–30.5	34–72	864–1829
		1-1/2	38	50–100	15.2–30.5	34–72	864–1829
		2	51	50–75	15.2–22.9	34–72	864–1829
200	2.0 (32 kg/m3)	1/2	13	50–100	15.2–30.5	34–72	864–1829

*In 1/4" (6mm) increments. Not all widths between 34" (864 mm) and 72" (1829 mm) are standard; please contact CertainTeed for standard sizes.

Sizes listed above are Standard Stock. Additional sizes may be available. Check with Territory Manager for Made to Order products and quantities.

ToughGard® Rigid Liner Board

Developed to line large sheet metal ducts and plenums, this rigid, fiberglass board consists of black resin-bonded glass fibers with a smooth, durable black mat facing applied to the air stream surface.


ToughGard® Rigid Liner Board

Rigid Liner Board Physical Properties

PROPERTIES	PERFORMANCE	TEST METHOD
Operating Limits: Temperature Air Velocity	Maximum: 250°F (121°C) 6000 fpm (30.5 m/s)	ASTM C411, ASTM C1071, UL 181
Surface Burning Characteristics (Fire Hazard Classification)	Maximum: Flame Spread Index: 25 Smoke Developed Index: 50	ASTM E84, UL 723
Water Vapor Sorption	<3% by Weight	ASTM C1104
Corrosion Resistance	Pass	ASTM C665
Fungi Resistance	Pass; No growth	ASTM C1338, ASTM G21
Limited Combustible	< 3500 Btu/lb	NFPA 259

Rigid Liner Board Thermal Performance

THICKNESS		K-VALUE		C-VALUE		R-VALUE	
in.	mm.	Btu•in/h•ft²•°F	W/m•°C	Btu•in/h•ft²•°F	W/m•°C	h•ft²•°F/Btu	m²•°C/W
1	25	0.23	0.033	0.23	1.31	4.3	0.77
1-1/2	38	0.23	0.033	0.15	0.87	6.5	1.15
2	51	0.23	0.033	0.12	0.65	8.7	1.53

Thermal conductance (C) and resistance (R) values are derived from the material thermal conductivity (k) value.
Tested in accordance with ASTM C518 and/or ASTM C177 at 75° F (24° C) mean temperature.

Rigid Liner Board Acoustical Performance

THICKNESS		ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (HZ)						
in.	mm.	125	250	500	1000	2000	4000	NRC
1	25	0.07	0.28	0.71	0.90	0.93	0.93	0.70
1-1/2	38	0.10	0.51	0.89	0.95	0.92	0.93	0.80
2	51	0.17	0.76	1.05	1.02	0.95	0.96	0.95

Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795.

Rigid Liner Board Typical Sizes

THICKNESS		WIDTH		LENGTH		DENSITY	
in.	mm	in.	mm	in.	m	lb/ft³	kg/m³
1	25	24–48	610–1219	48–120	1219–3048	3.00	48
1-1/2	38	24–48	610–1219	48–120	1219–3048	3.00	48
2	51	24–48	610–1219	48–120	1219–3048	3.00	48

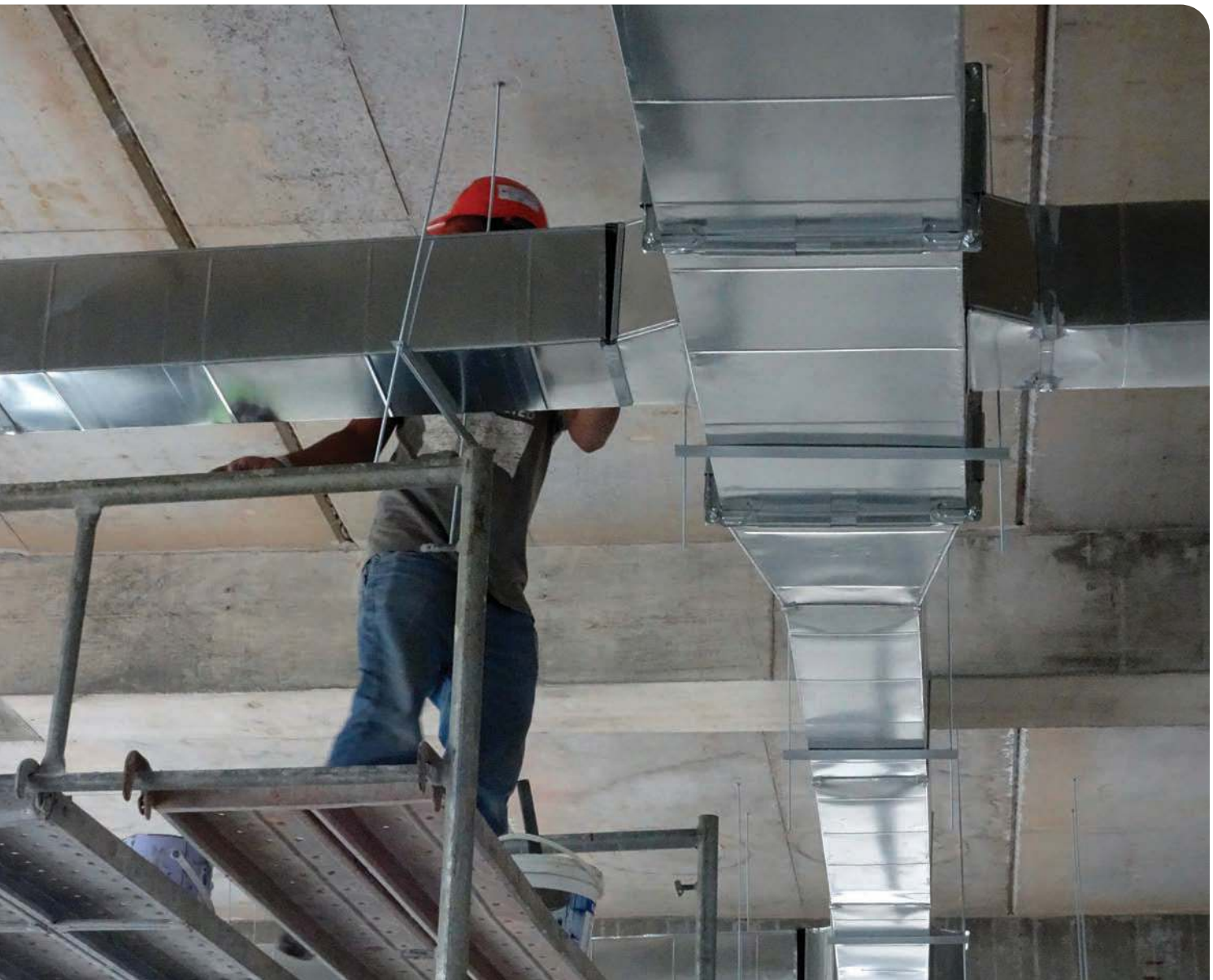
NOTE: Contact CertainTeed for minimum order quantities and availability.
Sizes listed above are Standard Stock. Additional sizes may be available. Check with Territory Manager for Made to Order products and quantities.

Indoor Air Quality (IAQ) and Duct Liners

Duct liners provide the dual benefit of thermal as well as acoustic performance in a single cost-effective product. Liners have become more attractive or beneficial over the years as automated coil lines install liners in a more cost-effective manner.

Liners have evolved over the years as well, reducing the potential for erosion of the fiberglass liner at the surface from the air velocity and turbulence present inside a duct system.

Providing high quality liners is only part of good system design. Proper system design is essential in any duct system. Improper filtration and condensation control can create IAQ problems even with lined or unlined ductwork.



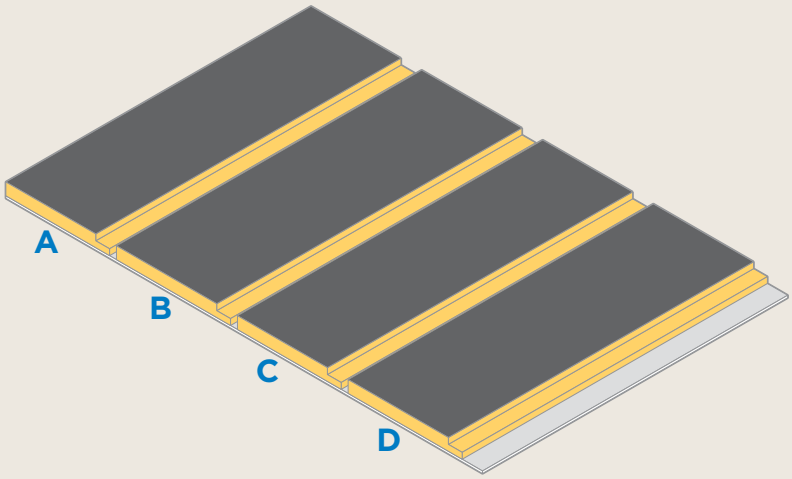
Ultra*Duct™ Black Duct Board

Easy to fabricate and install, this durable, lightweight duct board is made from resin-bonded glass fibers. Duct board decreases the chance of condensation with an exterior reinforced foil laminate air barrier/vapor retarder facing and non-woven glass mat bonding to the air stream surface. Exceptional thermal efficiency and low leakage rate improve the overall quality of the indoor environment while lowering operating costs. High-performance properties of duct board make it a perfect for both residential and commercial heating, ventilating and air-conditioning systems.

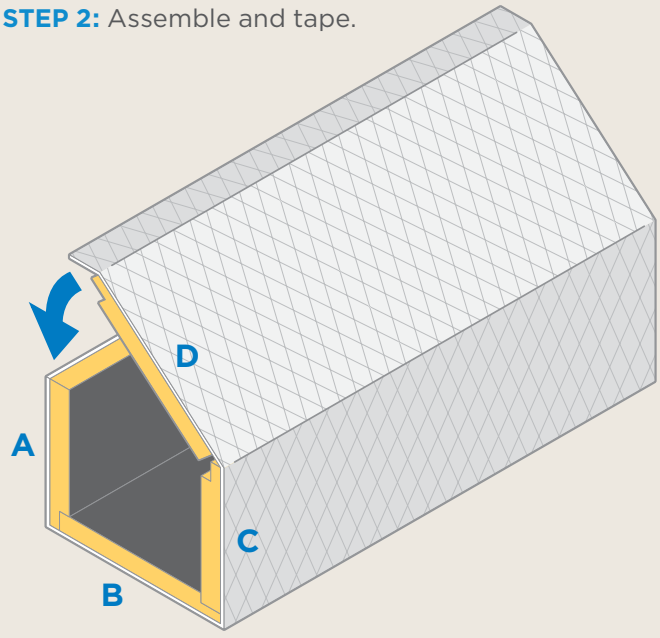
Ultra*Duct™ Black Duct Board Physical Properties

PROPERTIES	PERFORMANCE	TEST METHOD
Air Leakage Class	SMACNA Class 6	SMACNA HVAC Air Duct Leakage Test Manual
Operating Limits: Temperature Pressure Air Velocity	Maximum: 250°F (121°C) ±2" w.g. (51mm) 5000 fpm (25.4 m/s)	ASTM C411, UL 181, UL 181
Surface Burning Characteristics (Fire Hazard Classification)	Maximum: Flame Spread Index: 25 Smoke Developed Index: 50	ASTM E84, UL 723
Water Vapor Sorption	≤2% by Weight	ASTM C1104
Water Vapor Transmission (Facing only)	0.02 perms	ASTM E96, Desiccant Method
Corrosion Resistance	Pass	UL 181, ASTM C665
Fungi Resistance	Pass; No growth	ASTM G21, UL 181, ASTM C1338
Limited Combustible	Pass (< 3500 Btu/lb)	NFPA 259

STEP 1: Cut the board with grooving tools.



STEP 2: Assemble and tape.



Ultra*Duct™ Black Duct Board

Ultra*Duct™ Black Duct Board Thermal Performance

PRODUCT	THICKNESS		K-VALUE		C-VALUE		R-VALUE	
EI	in.	mm.	Btu•in/h•ft²•°F	W/m•°C	Btu•in/h•ft²•°F	W/m•°C	h•ft²•°F/Btu	m²•°C/W
475	1	25	0.23	0.033	0.23	1.31	4.3	0.76
800	1-1/2	38	0.23	0.033	0.15	0.87	6.5	1.15
	2	51	0.23	0.033	0.12	0.65	8.7	1.53

Thermal conductance (C) and resistance (R) values are derived from the material thermal conductivity (k) value.
Tested in accordance with ASTM C518 and/or ASTM C177 at 75°F (24°C) mean temperature.

Ultra*Duct™ Black Duct Board Acoustical Performance

PRODUCT	THICKNESS		ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (HZ)						
EI	in.	mm.	125	250	500	1000	2000	4000	NRC
475	1	25	0.04	0.20	0.70	0.98	1.05	1.01	0.75
800	1	25	0.07	0.22	0.77	1.00	1.03	1.05	0.75
	1-1/2	38	0.14	0.46	1.02	1.10	1.07	1.05	0.90
	2	51	0.17	0.76	1.05	1.02	0.95	0.96	0.95

Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795.

Ultra*Duct™ Black Duct Board Typical Sizes

PRODUCT TYPES		THICKNESS		WIDTH		LENGTH		NO. BOARDS	
EI	Edge	in.	mm	in.	mm	in.	mm	Carton	Pallet
475	Shiplap or Butt Edge	1	25	48	1219	120	3048	6	44
	Shiplap or Butt Edge	1	25	48	1219	96	2438	8	44
800	Shiplap or Butt Edge	1	25	48	1219	120	3048	6	44
	Shiplap or Butt Edge	1-1/2	38	48	1219	120	3048	4	30
	Shiplap or Butt Edge	1-1/2	38	48	1219	96	2438	6	30
	Butt Edge	2	51	48	1219	120	3048	3	22

NOTE: Contact CertainTeed for minimum order quantities and availability.

AcoustaBoard™ Black

AcoustaBoard™ Black is used for applications requiring an exposed black faced sound-absorbing insulation. It has a durable nonwoven facing that is fully bonded to the insulation. It is widely used to improve acoustics in theaters, sound studios and entertainment facilities — controlling reverberation or the echoing sound and unwanted background noise eliminating echoes — and is ideal for interiors that are meant to be dark. It is lightweight, easy to fabricate and install, and carries a Class A/Class I fire hazard classification of ASTM E84 25/50 for exposed applications.

AcoustaBoard™ Black Acoustical Performance

PRODUCT	THICKNESS		ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (HZ)						
Type	in.	mm.	125	250	500	1000	2000	4000	NRC
300	1	25	0.07	0.28	0.71	0.90	0.93	0.93	0.70
	1-1/2	38	0.10	0.51	0.89	0.95	0.92	0.93	0.80
	2	51	0.17	0.76	1.05	1.02	0.95	0.96	0.95

Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795.

AcoustaBoard™ Black Typical Sizes

PRODUCT TYPES	THICKNESS		DIMENSIONS		DENSITIES		R-VALUES	
Type	in.	mm	in.	mm	lb/ft³	kg/m³	R	RSI
300	1	25	48 x 96	1219 X 2438	3.00	48	4.3	0.76
	1-1/2	3851	48 x 96	1219 X 2438	3.00	48	6.5	1.14
	2		48 x 96	1219 X 2438	3.00	48	8.7	1.53

Sizes listed above are Standard Stock. Additional sizes may be available. Check with Territory Manager for Made to Order products and quantities.

AcoustaBoard™ Black

AcoustaBlanket™ Black

AcoustaBlanket™ Black

This fiberglass blanket has a durable surface and is used for applications requiring black sound-absorbing insulation. AcoustaBlanket™ Black is flexible for easy fabrication and installation on irregular surfaces. It improves acoustics in theaters, sound studios and entertainment facilities — and is ideal for interiors that are meant to be dark. AcoustaBlanket Black carries a Class A/Class I fire hazard classification with an ASTM E84 25/50 rating.

AcoustaBlanket™ Black Typical Sizes

PRODUCT TYPES		THICKNESS		WIDTH		LENGTH		R-VALUES	
Type	Density	in.	mm	in.	mm	ft.	m	R	RSI
150	1.5 pcf (24 kg/m³)	1	25	48	1219	100	30.5	4.2	0.74
	1.5 pcf (24 kg/m³)	1-1/2	38	48	1219	50	15.2	6.3	1.11
	1.5 pcf (24 kg/m³)	2	51	48	1219	50	15.2	8.3	1.46

Sizes listed above are Standard Stock. Additional sizes may be available. Check with Territory Manager for Made to Order products and quantities.

Acoustic Applications

Sound quality is as important as thermal comfort in occupied spaces. Creating a quiet environment is an important design feature for both architects and end-users of buildings. AcoustaBlanket Black was designed with theaters and libraries in mind, but schools, offices and retail spaces are also including noise reduction into their project requirements.

Fiberglass blankets and boards provide superior sound-reducing benefits and meets the standards of Class A and ASTM E84 25/50. Installation of acoustic fiberglass mat can be behind a porous surface or directly applied to walls or ceilings. Available with a black mat surface, these products are unobtrusive treatments for controlling and attenuating sound.

Acoustic Solutions

Fiberglass acoustic insulation is specifically designed for theaters, sound studios and other interior spaces where sound quality is of paramount importance.


CertainTeed Commercial Board

Commercial Board

Composed of resin-bonded glass fibers in a range of densities, Commercial Board can be used to add both thermal insulation and sound absorption to interior spaces. Commercial Board stiffness ranges from rigid to more flexible for curved and/or sharp-edged applications. It is available unfaced, for use where an exterior finish will be applied, or faced with a vapor retardant finish in either a clean metallic (FSK) or attractive white (ASJ) surface. Commercial Board is easy to cut to size and shape and to install. Additionally, unfaced and FSK faced Commercial Board are compliant where a fire hazard classification of ASTM E84 25/50 is required..

Commercial Board Available Sizes and Thermal Performance

PRODUCT TYPES	THICKNESS		DENSITY		THERMAL RESISTANCE		THERMAL CONDUCTIVITY	
Type	in.	mm	lb/ft³	Kg/m³	°F•ft²•h/Btu	m²•°C/W	Btu/h•ft²•°F	W/m²•°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
	4	102	1.50	24	16.0	2.82	0.25	0.036
CB 180	2	51	1.80	24	8.0	1.41	0.24	0.035
	3	76	1.80	24	12.0	2.11	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
	3-1/2	89	2.25	36	14.6	2.56	0.24	0.035
	4	102	2.25	36	16.6	2.91	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
CB 300	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
	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) is not available in Type CB 150. CB 110, 150 and 600 are not available in FSK, WMP or ASJ facings.

Commercial Board Acoustical Performance

PRODUCT	THICKNESS		ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (HZ)						
Type	in.	mm	125	250	500	1000	2000	4000	NRC
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	0.89	0.92	0.96	0.70
	2	51	0.23	0.61	0.94	0.95	0.92	0.93	0.80
	2-1/2	64	0.41	0.78	0.96	1.02	0.95	0.96	0.95
	3	76	0.41	0.51	0.89	0.95	0.92	0.93	0.80
	3-1/2	89	0.60	0.94	1.07	1.02	0.95	0.96	0.95
	4	102	0.64	1.08	1.09	1.13	1.11	1.10	1.25
CB 180	2	51	0.31	0.92	1.18	1.15	0.93	0.93	1.05
	3	76	0.57	1.32	1.16	1.09	0.95	1.01	1.15
CB 225	1	25	0.06	0.30	0.68	0.85	0.91	0.94	0.70
	1-1/2	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
	2-1/2	64	0.31*	0.81*	1.08*	1.02*	1.04*	1.03*	1.00*
	3	76	0.34	0.95	1.08	1.99	0.98	0.99	1.00
	3-1/2	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 250	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
	1-1/2	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
	2-1/2	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
	3-1/2	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 450	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
	1-1/2	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.
Sizes listed above are Standard Stock. Check with Territory Manager for Made to Order products and quantities.
Additional sizes may be available.

Commercial Board Physical Properties

PROPERTIES	PERFORMANCE	TEST METHOD
Operating Limits	Up to 250°F (faced) or 450°F (unfaced)	ASTM C411
Surface Burning Characteristics	Maximum: Flame Spread Index: 25 Smoke Developed Index: 50	ASTM E84, UL 723, NFPA 255
Vibration Resistance	Will not crack, split, shrink, or crumble	ASTM C1139
Moisture Absorption	< 5% by Weight	ASTM C1104
Fungi Resistance	Pass	ASTM C1338
Odor Emissions	Pass	ASTM C1304
Water Transmission (Facing Only)	.02 Perms	ASTM E96, Desiccant Method
Limited Combustible	Pass (< 3500 Btu/lb)	NFPA 259

OEM Acoustical Board Insulation

OEM Acoustical Board Insulation is used by fabricators who process it into finished acoustical insulation products. OEM Acoustical Board is typically used for office furniture, acoustical panels, baffles, architectural panels, and ceiling panels.

OEM Acoustical Board Available Sizes

Available standard sizes are listed in the table. Contact CertainTeed for availability and minimum order quantities.

TYPE	DENSITY (LBS./CU.FT.)	THICKNESS		WIDTH		LENGTH	
		IN	MM	IN.	MM	IN	MM
OEM 300	3.0	3/4 – 4	15.9 – 101.6	12 – 49	304.8 - 1244.6	24 – 122	609.6 – 3098.8
OEM 600	6.0	3/4 – 2	19.5– 304.8	12 – 49	304.8 - 1244.6	24 – 122	609.6 – 3098.8

OEM Acoustical Board Thermal Performance And Tolerances

THERMAL PERFORMANCE						TOLERANCES			
BOARD TYPE	DENSITY	K- VALUE			BTU• IN / H• FT.2• °F	DENSITY	THICKNESS	WIDTH	LENGTH
		75	100	200	300				
OEM 300	3.0	.23	.23	.28	.36	3 to 6	± 116	± 18	± 38
OEM 600	6.0	.23	.23	.27	.33				

OEM Acoustical Board Acoustical Performance

TYPE	THICKNESS*		ABSORPTION COEFFICIENTS @ OCTAVE BAND CENTER FREQUENCIES (HZ)						NRC**
	IN	MM	125	250	500	1000	2000	4000	
OEM 300	1	25.4	0.07	0.28	0.71	0.90	0.93	0.93	0.70
	1-1/2	38.1	0.11	0.42	0.93	0.98	0.96	0.97	0.80
	2	50.8	0.17	0.76	1.05	1.02	0.95	0.96	0.95
	3	76.2	0.41	0.96	1.13	1.03	1.03	1.02	1.05
	4	101.2	0.75	1.18	1.09	1.00	1.00	1.02	1.05
OEM 600	1	25.4	0.12	0.52	0.68	0.87	0.93	0.99	0.75
	1-1/2	38.1	0.17	0.50	0.98	1.03	0.96	0.97	0.90
	2	50	0.24	0.72	1.08	1.03	0.96	0.97	1.00

Metal Building Insulation

CertainTeed Metal Building Insulation meets NAIMA 202 and can provide thermal and acoustical insulation for the roofs and sidewalls of pre-engineered metal buildings and post frame construction. CertainTeed's Metal Building Insulation is composed of inorganic glass fibers bonded with a thermosetting resin, formed as a uniformly textured blanket insulation and furnished in rolls. Once laminated with a suitable vapor retarder, Metal Building Insulation reduces moisture flow and sound transmission.

Metal Building Insulation Thermal Performance

NOMINAL THICKNESS PRIOR TO LAMINATING		R-VALUES	
in.	mm	R	RSI
3.375	86	10	1.76
3.75	95	11	1.94
4.375	111	13	2.29
5.25	133	16	2.82
6.375	162	19	3.35
6.75	171	21	3.70
8	203	25	4.40
9.25	235	30	5.30

Metal Building Insulation Sound Absorption - Unfaced

R-VALUE	NOMINAL THICKNESS		ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (HZ)						
R	in.	mm	125	250	500	1000	2000	4000	NCR
10	3.375	86	0.29	0.82	1.02	0.94	0.95	0.98	0.95
11	3.75	95	0.39	0.91	1.01	0.92	0.93	0.98	0.95
13	4.375	111	0.53	0.97	1.04	0.90	0.95	0.98	0.95
16	5.25	133	0.67	1.05	1.02	0.92	0.98	0.99	1.00
19	6.375	162	0.89	1.22	1.02	0.98	1.01	1.00	1.05

Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795.

Metal Building Insulation Available Sizes*

R-VALUE	NOMINAL THICKNESS		WIDTH		LENGTH	
	in.	mm	in.	mm	ft.	m
10	3.375	86	36, 48, 60, 72	914, 1219, 1524, 1829	100	30.5
11	3.75	95	36, 48, 60, 72	914, 1219, 1524, 1829	100	30.5
13	4.375	111	36, 48, 60, 72	914, 1219, 1524, 1829	75	22.9
16	5.25	133	36, 48, 60, 72	914, 1219, 1524, 1829	50	15.2
19	6.375	162	36, 48, 60, 72	914, 1219, 1524, 1829	50	15.2
21**	6.75	171	36, 48, 60, 72	914, 1219, 1524, 1829	45	13.7
25**	8	203	36, 48, 60, 72	914, 1219, 1524, 1829	30	9.1
30**	9.25	235	36, 48, 60, 72	914, 1219, 1524, 1829	25	7.6

*Non-standard widths are available and subject to an upcharge on an individual basis determined by manufacturer's capability, quantity, lead timesand packaging availability.
**R-21, R-25 and R-30 are made to order.

Metal Building Insulation

Metal Building Insulation is used as a thermal and acoustical insulation in the roofs and sidewalls of pre-engineered metal buildings and post frame construction.

Note: MBI Filler Blanket is not intended to be laminated.

Metal Building Insulation Sound Transmission

CONSTRUCTION TYPE	TRANSMISSION LOSS IN DB AT THE OCTAVE FREQUENCIES						STC
Roofs	**125**	**250**	**500**	**1000**	**2000**	**4000**	**Rating**
No Insulation	12	13	19	24	30	32	24
R-10 Faced 202-96 Insulation Over the Purlins	12	16	26	37	45	49	29
R-19 Faced 202-96 Insulation Over the Purlins	13	20	30	41	49	51	32
202-96 Insulation Over & Between the Purlins to Fill the Cavity (R-25 Combined)	14	24	34	44	53	56	36
Walls	**125**	**250**	**500**	**1000**	**2000**	**4000**	**Rating**
No Insulation	12	14	19	19	20	27	21
R-10 Faced 202-96 Insulation Over the Girts	13	16	25	32	37	46	28
R-13 Faced 202-96 Insulation Over the Girts	13	17	26	33	38	47	29
R-13 Faced 202-96 Insulation Over the Girts 3-5/8" Steel Studs on 24" Centers with 1/2" Gypsum Board on Interior.	26	40	51	60	64	65	50
R-13 Faced 202-96 Insulation Over the Girts 3-5/8" Steel Studs on 24" Centers with R-11 Batts & 1/2" Gypsum Board on Interior.	31	43	55	68	73	75	50

Sound Transmission Class (STC) in accordance with ASTM E90.

- Roof construction is 24ga. standing seam roof with 8" Z purlins on 5' centers.
- Wall construction is 26ga. wall panels screwed to 8" Z girts placed on 7' centers.
- Interior metal furring wall studs were 358" by 25ga. on 24' centers.

Metal Building Insulation Filler Blanket

The best choice where wide rolls of unfaced insulation are required, such as retrofitting a warehouse, the uniformly textured blanket is made from inorganic glass fibers. A range of R-values are available to meet energy code requirements.

Metal Building Insulation Filler Blanket Insulation can be used in roofs and sidewalls as a sound layer over the unfaced side of Metal Building Insulation. Available up to 10" thick, and bonded with a thermostatting resin, Filler Blanket is also used in post frame construction and may be installed over old roof decks (BUR and metal) prior to application of a new standing seam roof.

MBI Filler Blanket Insulation Available Sizes

THICKNESS		WIDTH		LENGTH		R-VALUES	
in.	**mm**	**in.**	**mm**	**ft.**	**m**	**R**	**RSI**
3-1/2	89	48, 60, 72	1219, 1524, 1829	100	30.5	11	1.9
6-1/4	159	48, 60, 72	1219, 1524, 1829	50	15.2	19	3.3
6-1/2	165	48, 60, 72	1219, 1524, 1829	45	13.7	21	3.6
8	203	48, 60, 72	1219, 1524, 1829	40	12.2	25	4.4
10	254	48, 60, 72	1219, 1524, 1829	25	7.6	30	5.3

Metal Building Filler Blanket is not intended for lamination and does not meet NIAMA 202-96.

Metal Building Insulation Filler Blanket

Used as a thermal or acoustical insulation in commercial buildings, Filler Blanket offers increased comfort, lower energy use and noise control.

Universal Blanket Insulation

Universal Blanket is utilized in general purpose applications where a flexible thermal acoustical insulation is required. Available in several different densities and able to withstand temperatures up to 450°F (232°C). It will help lower energy consumption by reducing heat transfer through equipment walls. Universal Blanket can be fabricated into a variety of shapes and sizes to fit almost any application. When properly installed, it will maintain thermal and acoustical efficiency under normal conditions, won't be affected by aging and temperature changes, and if installed with a suitable vapor retarder, will help to prevent condensation from forming on the equipment.

Universal Blanket Insulation Acoustical Performance

PRODUCT	THICKNESS		ABSORPTION COEFFICIENTS AT OCTAVE BAND CENTER FREQUENCIES (HZ)						
Type	in.	mm.	125	250	500	1000	2000	4000	NRC
501	1-1/2	38	0.21	0.49	0.71	0.79	0.80	0.80	0.70
	2	51	0.23	0.62	0.87	0.87	0.85	0.87	0.80
	4	102	0.51	0.92	1.01	1.93	0.95	1.06	0.95
751	1	25	0.14	0.33	0.64	0.77	0.83	0.86	0.65
	1-1/2	38	0.17	0.45	0.78	0.84	0.92	0.93	0.75
	3	76	0.36	0.82	1.02	1.00	0.96	1.01	0.95
1001	1-1/2	38	0.21	0.53	0.79	0.85	0.85	0.87	0.75
	2	51	0.28	0.69	0.94	0.91	0.90	0.93	0.85

Sound absorption tested in accordance with ASTM C423 using Type A mounting per ASTM E795.

HT (High Temperature) Blanket Insulation

Our High Temperature Blanket is composed of rotary glass fibers bonded with a thermosetting resin and formed into plain, flexible and resilient thermal insulation. HT blankets contain recycled glass and are designed for use on industrial equipment, panel systems, pipe fittings and tanks operating at temperatures up to 1000°F (538°C). HT Blanket Type 1 rolls and batts — used on panel systems, as a flexible wrap or on industrial ovens — and Type 2 batts — meant for metal mesh blankets, on boilers, vessels and other industrial equipment — are easy to handle, cut with a knife and install.


HT Blanket Insulation

K FACTOR AT °F AT MEAN TEMPERATURES							
TYPE	75	100	200	300	400	500	600
1	.025	0.27	0.34	0.43	0.56	TBD	TBD
2	0.23	0.24	0.30	0.36	0.46	0.52	0.64

HT Blanket Typical Sizes

PRODUCT	THICKNESS		LENGTH		WIDTH	
TYPE 1	in.	mm	ft.	m	ft.	mm
Rolls	1	25	100	30.5	24	610
	2	51	70	21.3		
	2-1/2	64	55	16.8		
	3	76	40	12.2		
	3-1/2	89	35	10.7		
	4	102	30	9.1		
	1	25	100	30.5	36	914
	2	51	70	21.3		
	2-1/2	64	55	16.8		
	3	76	40	12.2		
	3-1/2	89	35	10.7		
	4	102	30	9.1		
	1	25	100	30.5	72	1829
	2	51	70	21.3		
	2-1/2	64	55	16.8		
	3	76	40	12.2		
	3-1/2	89	35	10.7		
	4	102	30	9.1		
Batts	1	25	48 96	1.219 2.438	24	610
	2	51	48 96	1.219 2.438		
	2-1/2	64	48 96	1.219 2.438		
	3	76	48 96	1.219 2.438		
	3-1/2	89	48 96	1.219 2.438		
	4	102	48 96	1.219 2.438		
TYPE 2	in.	mm	ft.	m	ft.	mm
Batts	1	25	48 96	1.219 2.438	24	610
	1-1/2	25	48 96	1.219 2.438		
	2	1	48 96	1.219 2.438		
	2-1/2	1	48 96	1.219 2.438		
	3	1	48 96	1.219 2.438		
	3-1/2	1	48 96	1.219 2.438		
	4	1	48 96	1.219 2.438		

CrimpWrap® Pipe and Tank Wrap

CrimpWrap® provides the thermal and compressive strength of rigid insulation board in a unique flexible blanket of variably oriented glass fibers firmly bonded together with a thermosetting resin. Available with either Foil Scrim Kraft (FSK) or white ASJ vapor retarder facings, CrimpWrap can control heat loss or gain on large diameter piping and equipment. Insulating tanks and pipes with service temperatures from 35°F to 850°F (2°C to 454°C), CrimpWrap also provides hot surface protection for the installer during system operation.

Crimpwrap® Thermal Performance

AVAILABLE SIZES						THERMAL PERFORMANCE				THICKNESS		MINIMUM NOMINAL PIPE DIAMETER (BLACK IRON PIPE)	
THICKNESS		WIDTH		LENGTH		MEAN TEMPERATURE		APPARENT THERMAL CONDUCTIVITY BTU IN./HR. FT² °F (W/M °K)					
IN.	MM	IN.	MM	FT.	M	°F	°C	°F	°C	IN.	MM	IN.	MM
1	25	48	1219	39-4″ to 52	12 to 15.85	75	24	0.24	0.034	1	25	6	152
1-1/2	38	48	1219	25-9″ to 30	7.85 to 9.14	150	66	0.27	0.038	1-1/2	38	8	203
2	51	48	1219	19-2″ to 26	5.84 to 7.92	200	93	0.31	0.045	2	51	10	254
2-1/2	64	48	1219	15-2″ to 20	4.62 to 6.10	300	149	0.39	0.056	2-1/2	64	12	305
3	76	48	1219	13-2″ to 20	4 to 6.10	400	204	0.49	0.071	3	76	16	406
3-1/2	89	48	1219	13-2″ to 15	4 to 4.57	500	260	0.62	0.089	3-1/2	89	18	457
4	102	48	1219	13″ to 14	3.96 to 4.27					4	102	20	508

Sizes: Available sizes as shown in table above. Contact CertainTeed for other sizes and minimum order quantities.

CrimpWrap® Physical Properties

PROPERTIES	PERFORMANCE	TEST METHOD
Maximum Use Temperature (See Limitations)	850°F (454°C)	ASTM C411
Water Vapor Sorption Maximum % by Weight	< 5%	ASTM C1104
Density	2.5 lb/ft³ (40 kg/m³)	ASTM C167
Surface Burning Characteristics (Fire Hazard Classification)	Maximum: Flame Spread Index: 25 Smoke Developed Index: 50	ASTM E84
Corrosiveness	Pass	ASTM C665
Fungi Resistance	Pass	ASTM C1338
Odor Emissions	Pass	ASTM C1304
Water Vapor Transmission (Facing Only)	.02 Perms	ASTM E96, Desiccant Method
Compressive Resistance, Minimum Load Required to Produce a 10% Reduction in Thickness	25 lb/ft² (1.2 kPA)	ASTM C165

CrimpWrap® Products

CrimpWrap® is specifically designed for insulating tanks and large diameter pipes in commercial and industrial construction projects.

CrimpWrap® Available Sizes

THICKNESS		WIDTH		LENGTH	
in.	mm	in.	mm	ft.	m
1-1/2	38	48	1219	25–9" to 30	7.85 to 9.14
2	51	48	1219	19–2" to 25	5.84 to 7.92
2-1/2	64	48	1219	15–2" to 20	4.62 to 6.10
3	76	48	1219	13–2" to 20	4 to 6.10
3-1/2	89	48	1219	13–2" to 15	4 to 4.57
4	102	48	1219	13" to 14	3.96 to 4.27

NOTE: Contact CertainTeed for minimum order quantities.

Sizes listed above are Standard Stock. Additional sizes may be available. Check with Territory Manager for Made to Order products and quantities.

CrimpWrap® Stretch-Out Lengths

NOMINAL PIPE SIZ	PIPE OUTSIDE DIAMETER		CRIMPWRAP THICKNESS													
in.	in.	mm	in.	mm	in.	mm	in.	mm	in	mm	in.	mm	in.	mm	in.	mm
			1	25	1.5	38	2	51	2.5	64	3.0	76	3.5	89	4	102
6	6.63	168	27.13	689	—	—	—	—	—	—	—	—	—	—	—	—
8	8.63	219	33.38	848	36.5	928	—	—	—	—	—	—	—	—	—	—
10	10.75	273	40	1017	43.25	1097	46.38	1177	—	—	—	—	—	—	—	—
12	12.75	324	46.13	1177	49.5	1257	52.63	1337	55.75	1416	—	—	—	—	—	—
14	14	356	50.25	1277	53.38	1357	56.5	1436	59.75	1516	—	—	—	—	—	—
16	16	406	56.5	1436	59.75	1516	62.88	1596	66	1676	69.13	1756	—	—	—	—
18	18	457	62.88	1596	66	1676	69.13	1756	72.25	1835	75.38	1915	78.5	1995	—	—
20	20	508	69.13	1756	72.25	1835	75.38	1915	78.5	1995	81.63	2075	84.88	2155	88	2234
22	22	559	75.38	1915	78.5	1995	81.63	2075	84.88	2155	88	2234	91.13	2314	94.25	2394
24	24	610	81.63	2075	84.88	2155	88	2234	91.13	2314	94.25	2394	97.38	2474	100.5	2553
26	26	660	88	2234	91.13	2314	94.25	2394	97.38	2474	100.5	2553	103.63	2633	106.88	2713
28	28	711	94.25	2394	97.38	2474	100.5	2553	103.63	2633	106.88	2713	110	2793	113.13	2873
30	30	762	100.5	2553	103.63	2633	106.88	2713	110	2973	113.13	2873	116.25	2952	119.38	3032
32	32	813	106.88	2713	110	2793	113.13	2873	116.25	2952	119.38	3032	122.5	3112	125.63	3192
34	34	864	113.13	2873	116.25	2952	119.38	3032	122.5	3112	125.63	3192	128.75	3272	132	3351
36	36	914	119.38	3032	122.5	3112	125.63	3192	128.88	3272	132	3351	135.13	3431	138.25	3511

The lengths shown in this table do not have a 3" staple flap incorporated into the calculated dimensions. If a staple flap is desired, add 3" to the number shown.

ULTIMATE U SeaProtect

When you need a product that can withstand temperatures as high as 1200°F (650°C), and save weight, look to ULTIMATE. Used in marine applications, ULTIMATE U SeaProtect is up to 45% lighter than stone wool and provides excellent fire protection in addition to thermal and acoustic insulation. Composed of high melting point temperature fibers, non-combustible ULTIMATE U SeaProtect is available unfaced or faced on one side with a fiber scrim reinforced with aluminum, black cloth tissue, glass fiber fabric, or a wire mesh.

Selection Table

Example: U SeaProtect Roll 24 20 mm

ULTIMATE	PRODUCT RANGE	PRODUCT FORM	DENSITY (KG/M³)	FACING		THICKNESS (MM)
U	SeaProtect	Roll	24		▸ Unfaced	20 mm
			36	Alu1	▸ Aluminum	25 mm
		Slab	56	G120	▸ Glass cloth (black)	30mm
			76	G220	▸ Glass cloth (white)	40 mm
		Wired Mat	86	G420	▸ Glass cloth (white)	50 mm
			90	B-Al	▸ B Facing* (Alu outside)	70 mm
			—	B-Gl	▸ B Facing* (Glass cloth outside)	100 mm

* B facing is a laminated composite facing combining glass cloth and aluminum foil.

Bending Around the Stiffeners — Fast, Easy and Efficient

Example shown with ULTIMATE U MPN 66.

Standard Design

Lightweight and easy logistics • 4 products to cover all Steel A-Fire Classifications

STEEL	PLATE		STIFFENER		COMPLETE SOLUTION
	PRODUCTS*	WEIGHT (kg/m²)	PRODUCTS*	WEIGHT (kg/m²)	WEIGHT (kg/m²)
A-15 Bulkhead	U SeaProtect Slab 24 50mm U SeaProtect Roll 24 50mm	1.20	U SeaProtect Slab 76 25mm U SeaProtect Slab 24 50mm U SeaProtect Roll 24 50mm	1.90 1.20	2.53 2.04
A-30 Bulkhead A-60 Bulkhead Restricted	U SeaProtect Slab 36 70mm U SeaProtect Roll 36 70mm	2.52	U SeaProtect Slab 36 70mm U SeaProtect Roll 36 70mm	2.52	4.28
			U SeaProtect Slab 76 25mm	1.90	3.85
A-60 Bulkhead	U SeaProtect Slab 56 70mm	3.92	U SeaProtect Slab 76 25mm	1.90	5.25
A-15 Deck A-30 Deck	U SeaProtect Slab 24 50mm U SeaProtect Roll 24 50mm	1.20	U SeaProtect Slab 76 25mm	1.90	2.53
			U SeaProtect Slab 24 50mm U SeaProtect Roll 24 50mm	1.20	2.04
A-60 Deck	U SeaProtect Slab 36 70mm U SeaProtect Roll 36 70mm	2.52	U SeaProtect Slab 36 70mm U SeaProtect Roll 36 70mm	2.52	4.28
			U SeaProtect Slab 76 25mm	1.90	3.85

Thin Design

Thin Solutions between and around the stiffeners

STEEL	PLATE		STIFFENER		COMPLETE SOLUTION
	PRODUCTS*	WEIGHT (kg/m²)	PRODUCTS*	WEIGHT (kg/m²)	WEIGHT (kg/m²)
A-15 Bulkhead	U SeaProtect Slab 66 30mm	1.98	No insulation around stiffeners	—	1.98
A-30 Bulkhead Restricted	U SeaProtect Slab 46 40mm	1.84	U SeaProtect Slab 46 30mm	1.38	2.81
A-30 Bulkhead	U SeaProtect Slab 36 70mm U SeaProtect Roll 36 70mm	2.52	U SeaProtect Slab 76 20mm	1.52	3.58
	U SeaProtect Slab 76 40mm U SeaProtect Slab 76 20mmX2	3.04	U SeaProtect Slab 76 20mm	1.52	4.10
			U SeaProtect Slab 76 25mm	1.90	4.37
A-60 Bulkhead	U SeaProtect Slab 86 50mm	4.30	U SeaProtect Slab 76 25mm	1.90	5.63
A-15 Deck	U SeaProtect Slab 36 70mm U SeaProtect Roll 36 70mm	2.52	No insulation around stiffeners	—	2.52
A-15 Deck A-15 Deck	U SeaProtect Slab 24 50mm U SeaProtect Roll 24 50mm	1.20	U SeaProtect Slab 76 20mm	1.52	2.26
	U SeaProtect Slab 76 25mm	1.90	U SeaProtect Slab 76 20mm	1.52	2.96
			U SeaProtect Slab 76 25mm	1.90	3.23
A-60 Deck	U SeaProtect Slab 66 50mm	3.30	U SeaProtect Slab 76 25mm	1.90	4.63

*All U SeaProtect products are available for each construction with different facings approved by a recognized test laboratory (Alu facing Alu1, glass cloth facings G120, G220 ,G420, B facing, etc.).

Products highlighted in colors are part of the U SeaProtect Easy Logisitcs Portfolio. These products are available with a low Minimum Order Quantity (equivalent to 1 pallet) for various facings. For more information, please contact your local CertainTeed representative.

Glass Master™ Grooving Machines

Fabricate fiberglass duct systems more expediently, more economically, and, most importantly, in a safer way. That's what you accomplish with Glass Master duct board grooving machines, hand tools, and accessories.

The precision, speed, and accuracy of the SG-220 Grooving Machine helps you work 15 to 20 times faster than standard hand grooving. For high quality fiberglass spiral duct liner, the SG-420 Grooving Machine works 40 to 50 times faster than standard hand grooving techniques.

Standard features on both machines:

- Rugged structural steel construction
- Durable powder coat finish
- Foot-actuated switch for safe, dependable operation
- Easy access to all working parts
- Swivel casters, two with brakes

Fab-Master Tools & Accessories

Useful hand fabrication tools, replacement blades, and accessories help make your shop or field work easier and more efficient.

- Round Hole Cutter
- Cuts-All Tool
- Peeler Knife
- Caster Set
- Toggle Clamp Spindles
- Fab Knife

Fab-Master Hand Tools

We also put our engineering know-how to work developing a quick, easy fabrication system for hand-grooved boards.

Incorporating many of the same design features perfected for our high-volume grooving machines, the Fab-Master dramatically reduces time spent measuring and determining where to cut. Easy-to-read, pre-numbered tools substantially narrow the margin for error in fiberglass duct fabrication.

- Lightweight, ergonomic anodized aluminum tools
- Large tool sledding areas facilitate smooth, precision cuts and minimize operator fatigue
- High quality spring steel cutting blades sharpened, heat treated, and coated or an incredibly long life

Sustainability, Clarified.

Every CertainTeed product undergoes rigorous quality assurance assessments by our in-house engineering and installation experts. But that's merely the beginning. Products are then subjected to the stringent criteria of EPD and HPD certification to assure you that long-term impact is not detrimental.

"Green construction is here to stay, and we're one of the leading manufacturers in ensuring building products meet high environmental and safety standards. Third-party verification is a significant step toward achieving a more sustainable, healthier world."

Bryon Magill, Sr Dir, Bus. Development - IPG

What's an EPD?

An Environmental Product Declaration, or EPD, is a rigorous third-party examination of a product or product family's environmental impact.

EPDs are certified by ULE and based on a Life Cycle Assessment (LCA) that is performed using established Product Category Rules (PCRs). According to UL, these include:

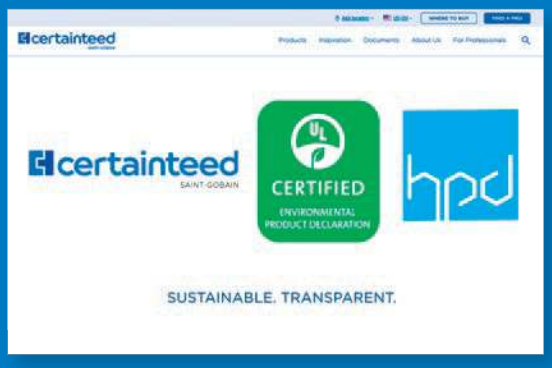
- a detailed breakdown of material content
- production process and life cycle stage diagrams
- health and safety information related to a product's creation and use
- a diagram of relative primary energy usage by life cycle stage

What's an HPD?

In a Health Product Declaration, or HPD, manufacturers report what makes up their products and, if applicable, any potential hazards. The HPD Collaborative is composed of organizations, corporations, and companies intent on minimizing the impact that manufacturing and construction have on our environment and health.

CertainTeed Insulation was first in the industry to provide HPDs to customers, showing consumers our commitment to well-being, and our actions toward improving the environment.

To view the EPD and HPD certifications, please visit:



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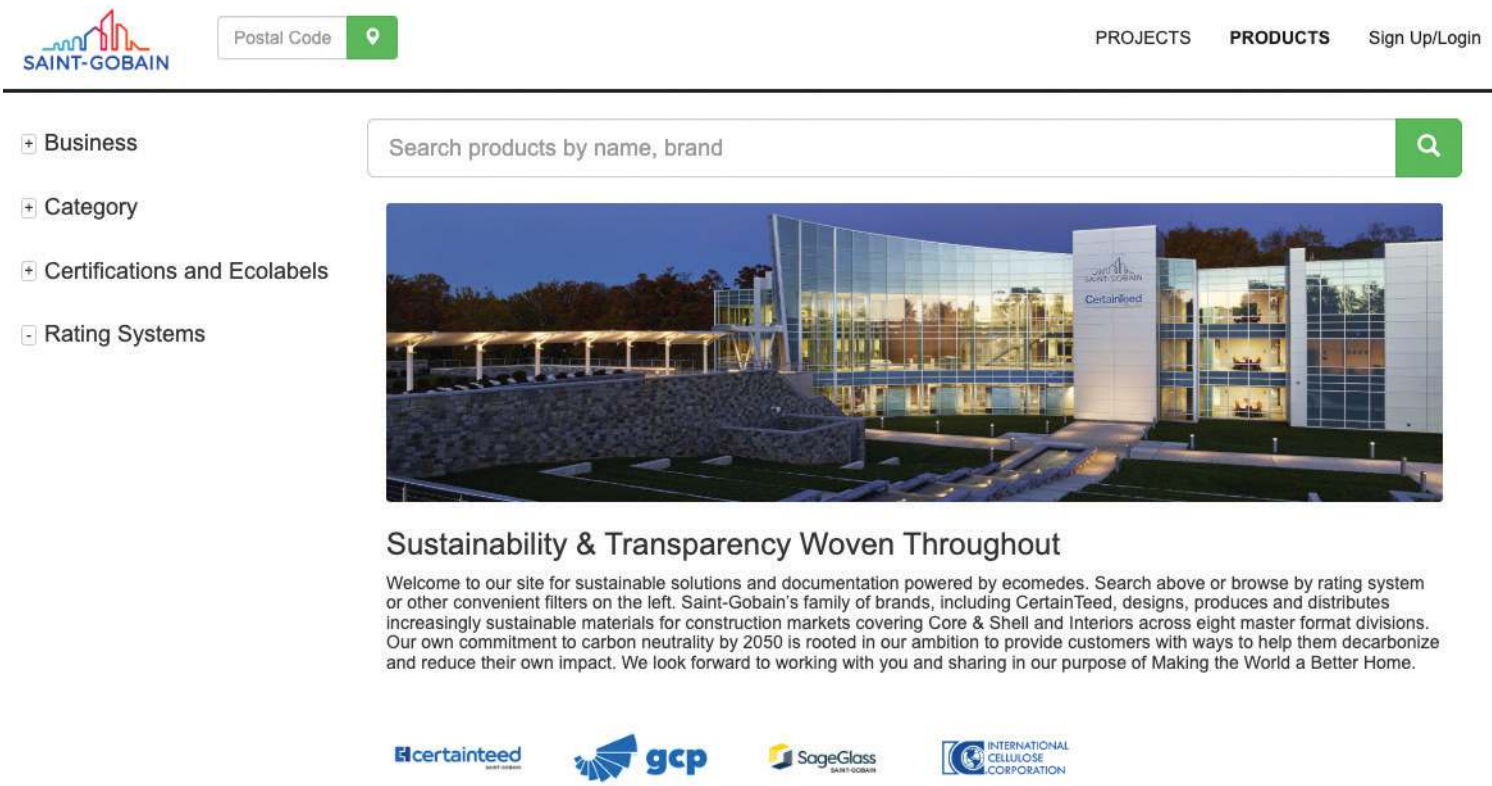

Ecomedes

Our ecomedes Sustainable Product Platform allows you to quickly access the product information and certifications you need, calculate contributions to LEED and other green building rating systems, and create and save a group of products using the project feature.

The information is free to access and always up to date. You can sign up for an account using your name and an email, and start specifying!

Ecomedes allows the AEC Community, Designers, and Owners to find, compare, and optimize the selection of sustainable building products for any project based on environmental characteristics such as certifications, ecolabels, recycled content, and contributions to green building rating systems.

NAIMA

The mission of the North American Insulation Manufacturers Association (NAIMA) is to realize a more comfortable, energy efficient, and sustainable future through insulation. As the recognized voice of the industry, NAIMA leverages the collective expertise of fiberglass and mineral wool insulation product manufacturers to help people make informed insulation choices. Their Insulation Institute™ works with public interest, energy, and environmental groups—as well as homeowners and industry professionals—to be an ongoing source of authoritative knowledge.

Create a more comfortable home.
Visit CertainTeed.com/Insulation or call 800-233-8990.

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SAINT-GOBAIN


Metal Building Insulation


MBI Filler Blanket Insulation


Ultra*Duct Black Duct Board

Glass Master Duct Board Grooving Machine

HVAC/Mechanical


InsulPure Duct Wrap Insulation

learn more at certainteed.com/insulation

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