

PERFORMANCE CRITERIA SUMMARY SHEET



BENEFITS OF THERMAFIBER® MINERAL WOOL



Non-Combustible

Mineral wool is non-combustible as tested to CAN/ULC-S114 and ASTM E136.



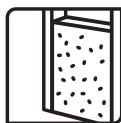
Mold-Resistant

Resists mold and fungi due to its being an inorganic material.²



Sustainability

Produced with a minimum 70% recycled content and contributes to credits in several green building programs such as LEED® and Green Globes®.¹



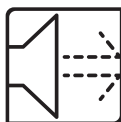
Ease of Installation

As a semi-rigid product that is easy to cut and install, its flexibility allows it to conform and friction-fit.



Water-Resistance

Allows the vapour barrier to perform without creating additional traps for moisture in the wall cavity.



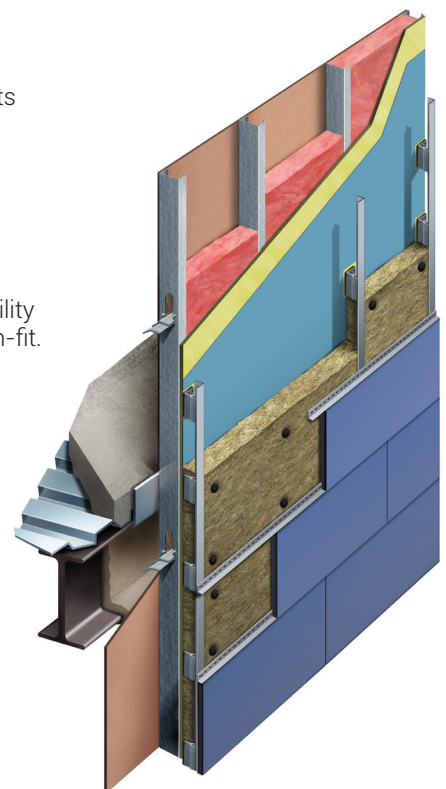
Sound Control

Helps control noise between floors, through walls, and from outdoors.



Thermal Comfort

R-4.2 per inch of thickness contributes to energy efficiency and will not decrease as the insulation ages.



			BATT INSULATION		EXTERIOR WALL CONTINUOUS INSULATION						CURTAIN WALL PERIMETER FIRE CONTAINMENT & FIRESTOPPING INSULATION			MULTIPURPOSE INSULATION			
			Fire & Sound Guard® Plus	SAFB™	RainBarrier® ^A	RainBarrier® Dark™ ^A	RainBarrier® ci HC (80)	RainBarrier® ci HC Plus (110)	RainBarrier® ci HC Max (140)	FireSpan® 40	FireSpan® 90	Safing	VersaBoard® 35	VersaBoard® 40	VersaBoard® 60	VersaBoard® 80	
Standard Thicknesses <small>(available in 13 mm (1/2") increments)</small>			89 mm - 203 mm (3.5" - 8")	25 mm - 203 mm (1" - 8")	25 mm - 203 mm (1" - 8")	51 mm - 203 mm (2" - 8")	38 mm - 152 mm (1.5" - 6")	32 mm, 38 mm - 102 mm (1.25", 1.5" - 4")	25 mm - 102 mm (1" - 4")	51 mm - 178 mm (2" - 7")	25 mm - 178 mm (1" - 7")	25 mm - 178 mm (1" - 7")	38 mm - 178 mm (1.5" - 7")	25 mm - 203 mm (1" - 8")	25 mm - 203 mm (1" - 8")	38 mm - 127 mm (1.5" - 5")	
Standard Dimensions			381 mm x 1194 mm (15" x 47"), 584 mm x 1194 mm (23" x 47"), 406 mm x 1219 mm (16" x 48"), 610 mm x 1291 mm (24" x 48")	406 mm x 1219 mm (16" x 48"), 610 mm x 1219 mm (24" x 48")	406 mm x 1219 mm (16" x 48"), 610 mm x 1219 mm (24" x 48")		610 mm x 1219 mm (24" x 48"), 1219 mm x 1829 mm (48" x 72")			610 mm x 1219 mm (24" x 48"), 610 mm x 1524 mm (24" x 60"), 914 mm x 1524 mm (36" x 60"), 1219 mm x 1829 mm (48" x 72")		610mmx1219mm (24" x 48")	610 mm x 1219 mm (24" x 48")				
Density kg/m³ (lb/ft³)			N/A	40 (2.5) for 38 mm (1.5") and above, 64 (4.0) for 25 mm (1"); Nominal	96 (6.0) Nominal		128 (8.0) Nominal	176 (11.0) Nominal	224 (14.0) Nominal	64 (4.0) Nominal	128 (8.0) Nominal	64 (4.0), 96 (6.0)	56 (3.5)	64 (4.0)	96 (6.0)	128 (8.0)	
Compressive Strength kPa (lbs/ft²)			N/A	N/A	N/A		22.7 (475)	34.5 (720)	62.1 (1296)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
RSI/25.4 mm (R-value/inch)			See data sheet	N/A	0.74 (4.2)		0.74 (4.2)	0.73 (4.1)	0.71 (4.0)	0.74 (4.2)		0.74 (4.2)	0.71 (4.0)	0.74 (4.2)	0.74 (4.2)	0.72 (4.1)	
Facing Options			Unfaced	Unfaced	Unfaced	Black Veil	Unfaced			Unfaced, Silver Foil Faced		Unfaced	Unfaced, aluminum FSP, white aluminum FSP, black mat				
Compliance																	
CCMC Listing			N/A	No. 14059-L	No. 14060-L						No. 14060-L			No. 14060-L			
CAN/ULC-S702.1			Type 1	Type 1	Type 1	Type 2	Type 1			Type 1, Type 3 (Foil)		Type 1	Type 1, Type 3 (Foil)				
ASTM C612			N/A	N/A	Type IA, IB, II, III, IVA, IVB		Type IA, IB, II, III, IVA, IVB			Type IA, IB, II, III, IVA	Type IA, IB, II, III, IVA, IVB	Type IA, IB, II, III, IVA	Type I, II, III, IVA		Type I, II, III, IVA, IVB		
Physical Properties																	
Linear Shrinkage	ASTM C356	N/A	N/A	<2% @ 650°C (1,200°F)						<2% @ 650°C (1,200°F)		N/A	<2% @ 650°C (1,200°F)				
Fire Performance																	
Combustibility	CAN/ULC-S114 ASTM E136	Non-combustible	Non-combustible	Non-combustible						Non-combustible			Non-combustible				
Smoulder Resistance	CAN/ULC-S129	≤ 0.2%	≤ 0.02%	Pass (≤ 2%)						≤ 0.02%			≤ 0.02%				
Flame Spread/Smoke Developed (unfaced)	CAN/ULC-S102 (ASTM E84)	FS=0 SD=0 (FS=0 SD=0)	FS=0 SD=0 (FS=0 SD=0)	FS=0 SD=5 (FS=0 SD=0)	FS=20 SD=5 (FS=20 SD=15)	FS=0 SD=5 (FS=0 SD=0)			FS=0 SD=0 (FS=0 SD=0)			FS=0 SD=5 (FS=0 SD=5)					
Firestop Systems	CAN/ULC-S115	N/A	N/A	N/A						Complies		Complies	N/A				
Thermal Protection Foam Plastics	CAN/ULC-S124	N/A	N/A	N/A		≥ 2" Class B, Barrier, ≥ 3" Class A Barrier	N/A			N/A			N/A		≥ 2" Class B, Barrier, ≥ 3" Class A Barrier	N/A	
Perimeter Fire Containment Systems	ASTM E2307	N/A	N/A	N/A						Complies See UL® & Intertek® Listings			N/A				
Moisture Performance																	
Water Vapour Sorption	ASTM C1104	<1% by vol.	<1% by vol.	0.03% by vol.	0.06% by vol.	<0.5% by vol.			<1% by vol.			<1% by vol.					
Water Vapour Permeance ng/Pa·s·m² (Perm)	ASTM E96	-	-	1,432 - 2,850 (25 - 50)		1,373 (24)	2,631 (46)	3,261 (57)	Unfaced: 2,850 (50) Foil Faced: 1 (0.02)		Unfaced: 2,850 (50)	0.02 perms as tested for all facings available, excluding black mat					
Fungi Resistance	ASTM C1338	Pass	Pass							Pass			Pass				
Corrosion Performance																	
Austenitic Steel	ASTM C795	N/A	Non-corrosive	Non-corrosive						Non-corrosive			Non-corrosive				
Steel, Aluminum, Copper	ASTM C665	Non-corrosive	Non-corrosive	Non-corrosive						Non-corrosive			Non-corrosive				
Acoustic Performance																	
Open Air Absorption (at 2" thickness)	ASTM C423	NRC	See data sheet	0.95	1.00	1.00	1.00	0.95	0.85	N/A			-	1.00	1.00	1.00	
			Consult the product data sheet for NRC performance at different frequencies														
Sustainability & Environmental																	
ICC ES Report Min. Recycled Content			70%	70%	70%						70%			70%			
UL Environmental Product Declaration			Available	Available	Available						Available			Available			
Transparency Documentation Available			HPD†	HPD†	HPD†, Declare						HPD†			HPD†			

Note: Where N/A has been indicated, the test standard does not represent the performance of the product in the intended use. Please contact Thermafiber Technical Team via www.thermafiber.ca/contact for test results if required.

†Latest RainBarrier® products combine the benefits of RainBarrier® 45 and RainBarrier® HD as of April 2024.



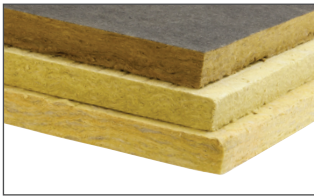
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Thermafiber® Fire & Sound Guard® Plus mineral wool insulation is designed to provide excellent thermal, noise control, and fire resistance in residential and light commercial construction applications. Fire & Sound Guard® Plus can be used in a variety of applications, including interior and exterior walls, ceilings, basement walls, and crawl spaces. These products are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, and mold-resistant².



Thermafiber® SAFB™ (Sound Attenuation Fire Blankets) are mineral wool insulation batts designed to provide acoustical control and fire protection in many UL® fire-rated wall and floor-ceiling assemblies. SAFB™ resists temperatures over 1,093°C (2,000°F) and can add points to STC for walls and floor-ceiling assemblies. SAFB™ can be installed in both steel stud and wood-framed construction.



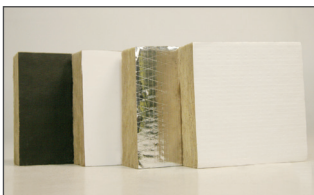
Thermafiber® RainBarrier® Continuous Insulation products are designed for exceptional performance in rainscreen and exterior cavity wall construction applications. With a full portfolio of ci products and a wide range of compressive strengths, Thermafiber® RainBarrier® mineral wool insulation has a solution available for many façade types while being compatible with various mechanical attachment methods and air barrier systems. All RainBarrier® products are non-combustible, fire-resistant, vapour permeable, and are easy to fabricate and install.



Thermafiber® FireSpan® mineral wool insulation products are designed to provide enhanced fire protection in curtain wall and perimeter fire containment systems as well as enhanced performance in thermal and acoustical applications. Thermafiber® FireSpan® is available in a variety of nominal densities for specific application needs. Its natural color provides shadowing in glass spandrels. FireSpan® insulations provide thermal insulation, fire containment, enhanced acoustical performance, and vapor control in many different UL® and Intertek® listed fire containment assemblies of 1-, 2-, and 3-hour ratings³.



Thermafiber® Safing mineral wool insulation products are designed to provide enhanced fire protection in perimeter fire containment systems tested to ASTM E2307, floor and wall penetrations, construction joints, and other firestopping applications. Thermafiber® Safing provides thermal insulation, fire containment, and enhanced acoustical performance in many different UL and Intertek (formerly OPL) listed fire containment assemblies of 1, 2, and 3-hr ratings³.



Thermafiber® VersaBoard® multi-purpose mineral wool board insulation provides an outstanding combination of fire-resistive characteristics, enhanced acoustical performance, thermal performance, moisture resistance, and energy conservation for various commercial construction applications. These products are great for surfaces that require insulation for thermal and acoustical performance, including but not limited to parking garage under decking and mechanical rooms. VersaBoard® insulation is not listed by UL® or Intertek® for use in fire-rated systems.

¹ Verified by ICC-ES to contain a minimum of 70% recycled content. See ICC-ES Evaluation Report VAR-1025 at icc-es.org.

² Tested per ASTM C1338, Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings, ASTM International.

³ See individual listings for hourly F ratings.

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