



# Performance Criteria Summary Sheet

	INTERIOR FIRE & SOUND BATT		EXTERIOR THERMAL BATT	MULTIPURPOSE INSULATION BOARDS				
	SAFB™	UltraBatt™	VersaBoard™ 35	VersaBoard™ 40	VersaBoard™ 60	VersaBoard™ 80		
<b>Standard Thicknesses</b>	1" - 7"	2.5", 3.5", 5.5", 5.75", 6", 7.1", 8"	1.5" - 7"	1" - 7"	1" - 7"	1" - 5"		
<b>Standard Widths</b>	15", 16", 23", 24"	15", 16", 23", 24"	24", 36"	24", 36"	24", 36"	24", 36"		
<b>Standard Lengths</b>	47", 48"	47", 48"	48", 60"	48", 60"	48", 60"	48", 60"		
<b>Density kg/m<sup>3</sup> (lb/ft<sup>3</sup>)</b>	40 (2.5) <1.5" = 64 (4.0)*	N/A	56 (3.5)	64 (4.0)	96 (6.0)	128 (8.0)		
<b>RSI/25.4 mm (R-value/inch)</b>	N/A	See Data Sheet	0.71 (4.0)	0.74 (4.2)	0.74 (4.2)	0.72 (4.1)		
<b>Facing Options</b>	Unfaced	Unfaced	Unfaced, Silver Foil Faced, White Foil Faced, ASJ, & Black Mat					
<b>Compliance</b>								
CCMC Listing	No. 14059-L	No. 14059-L	No. 14060-L					
CAN/ULC-S702	Type I	Type I	Type I, Type III (Foil)					
ASTM C612	N/A	N/A	Type IA	Type IA, IB, II, III, IVA				
<b>Physical Properties</b>								
Linear Shrinkage	ASTM C356	N/A	N/A	<2% @ 650°C (1200°F)				
<b>Fire Performance</b>								
Combustibility	CAN/ULC-S114 ASTM E136	Non-combustible	Non-combustible	Non-combustible				
Smoulder Resistance	CAN/ULC-S129	≤ 0.02%	≤ 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=5 FS=0   SD=0	FS=0   SD=5 FS=0   SD=0				
Firestop Systems	CAN/ULC-S115	N/A	N/A	N/A				
Thermal Protection Foam Plastics	CAN/ULC-S124	N/A	≥ 5.5" Class A Barrier	VersaBoard™ 60 ≥ 2" Class B, Barrier, ≥ 3" Class A Barrier				
Perimeter Fire Containment Systems	ASTM E2307	N/A	N/A	N/A				
<b>Moisture Performance</b>								
Moisture Absorption	ASTM C1104	<1% by vol.	<1% by vol.	<1% by vol.				
Water Vapour Permeance ng/Pa·s·m <sup>2</sup> (Perms)	ASTM E96	-	-	Unfaced: 2850 (50) Foil Faced/ASJ: 1 (0.02)				
Fungi Resistance	ASTM C1338	Pass	Pass	Pass				
<b>Corrosion Performance</b>								
Austenitic Steel	ASTM C795	Non-corrosive	Non-corrosive	Non-corrosive				
Steel, Aluminum, Copper	ASTM C665	Non-corrosive	Non-corrosive	Non-corrosive				
<b>Acoustic Performance</b>								
Open Air Absorption (at 2" thickness)	ASTM C423	250 Hz	0.61	N/A	-	0.71	0.79	0.84
		500 Hz	1.07	N/A	-	1.13	1.15	1.08
		1000 Hz	1.09	N/A	-	1.15	1.04	1.04
		2000 Hz	1.07	N/A	-	1.08	1.01	0.96
		NRC	0.95	N/A	-	1.00	1.00	1.00
<b>Sustainability &amp; Environmental</b>								
ICC ES Report Min. Recycled Content		70%	70%	70%				
UL Environmental Product Declaration		Available	Available	Available				
Transparency Documentation Available		HPD <sup>†</sup>	HPD <sup>†</sup>	HPD <sup>†</sup>				

**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](http://www.thermafiber.ca/contact) for test results if required.

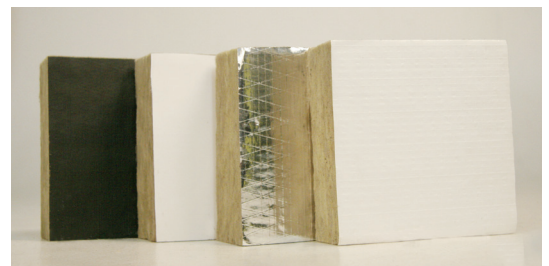
\*Nominal density listed.  
<sup>†</sup>Health Product Declaration



**Thermafiber® SAFB™** (Sound Attenuation Fire Blankets) are sound absorptive mineral wool batts designed to provide acoustic and fire protection in various wood and steel framed load bearing and non-load bearing sound and fire rated interior construction assemblies. SAFB™ batts are non-combustible, non-corrosive, moisture-resistant, non-deteriorating, and mold resistant.



**Thermafiber® UltraBatt™** mineral wool thermal batt insulation is designed for use within wood and steel framed exterior wall, ceiling and floor construction assemblies. The semi-rigid batts are non-combustible, non-corrosive, moisture-resistant, non-deteriorating, and mold resistant. UltraBatt™ product greater than 5 1/2" thick can be used as thermal barrier for foamed plastics certified to CAN/ULC-S124. See QAI Listing No. B1079 for details.



**Thermafiber® VersaBoard™** multi-purpose insulation provides an outstanding combination of fire containment, enhanced acoustical performance, thermal insulation, and energy conservation for various commercial construction applications. Available with various facing options, VersaBoard™ insulation is perfectly suitable for parking garages, under decking, mechanical rooms and other areas where insulation is required. VersaBoard™ 60 at 2" thick or greater can be used as a thermal barrier for foamed plastics certified to CAN/ULC-S124. See QAI Listing No. B1079 for details. Otherwise VersaBoard™ insulation is not listed by ULC, UL or Intertek for use in fire rated systems.

## Disclaimer of Liability

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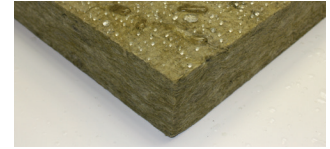
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# Performance Criteria Summary Sheet

	EXTERIOR WALL CONTINUOUS INSULATION					CURTAIN WALL PERIMETER FIRE CONTAINMENT & FIRESTOPPING INSULATION			
	RainBarrier® 45	RainBarrier® HD	RainBarrier® ci HC (80)	RainBarrier® ci HC Plus (110)	RainBarrier® ci HC Max	FireSpan® 40	FireSpan® 90	Safing	
<b>Standard Thicknesses</b>	1" - 7"	1" - 7"	1.5" - 4"	1.25", 1.5" - 4"	1" - 4"	2" - 7"	1" - 7"	1" - 7"	
<b>Standard Widths</b>	16", 24", 36"	16", 24", 36"	24", 48"	24", 48"	24", 48"	24", 36", 72"	24", 36", 72"	16", 24", 36"	
<b>Standard Lengths</b>	48", 60"	48", 60"	48", 72"	48", 72"	48", 72"	48", 60", 72"	48", 60", 72"	48", 60"	
<b>Density kg/m³ (lb/ft³)</b>	72 (4.5)	96 (6.0)	N/A	N/A	N/A	64 (4.0) Nominal	128 (8.0) Nominal	64 (4.0) 96 (6.0)	
<b>Compressive Strength kPa (lbs/ft²)</b>	N/A	N/A	22.7 (475)	34.5 (720)	62.1 (1296)	N/A	N/A	N/A	
<b>RSI/25.4 mm (R-value/inch)</b>	0.74 (4.2)	0.74 (4.2)	0.74 (4.2)	0.73 (4.1)	0.71 (4.0)	0.74 (4.2)		0.74 (4.2)	
<b>Facing Options</b>	Unfaced					Unfaced, Foil Facing			
<b>Compliance</b>									
CCMC Listing	No. 14060-L					No. 14060-L			
CAN/ULC-S702	Type I					Type I, Type III (Foil)			
ASTM C612	Type IA, IB, IVA	Type IA, IB, II, III, IVA, IVB					Type IA, IB, II, III, IVA		
<b>Physical Properties</b>									
Linear Shrinkage	ASTM C356	N/A	<2% @ 650°C (1200°F)			<2% @ 650°C (1200°F)		N/A	
<b>Fire Performance</b>									
Combustibility	CAN/ULC-S114 ASTM E136	Non-combustible					Non-combustible		
Smoulder Resistance	CAN/ULC-S129	≤ 0.02%					≤ 0.02%		
Flame Spread/Smoke Developed (unfaced)	CAN/ULC-S102 (ASTM E84)	FS=0   SD=5 FS=0   SD=0					FS=0   SD=5 FS=0   SD=0		
Firestop Systems	CAN/ULC-S115	N/A					N/A		Complies
Thermal Protection Foam Plastics	CAN/ULC-S124	N/A					N/A		
Perimeter Fire Containment Systems	ASTM E2307	N/A					Complies   See UL & Intertek Listings		
<b>Moisture Performance</b>									
Moisture Absorption	ASTM C1104	0.03% by vol.	<1% by vol.	<0.5% by vol.		<1% by vol.			
Water Vapour Permeance ng/Pa*s*m² (Perms)	ASTM E96	2850 (50)	1373 (24)	2631 (46)	3261 (57)	Unfaced: 2850 (50) Foil Faced: 1 (0.02)			
Fungi Resistance	ASTM C1338	Pass					Pass		
<b>Corrosion Performance</b>									
Austenitic Steel	ASTM C795	Non-corrosive					Non-corrosive		
Steel, Aluminum, Copper	ASTM C665	Non-corrosive					Non-corrosive		
<b>Acoustic Performance</b>									
Open Air Absorption (at 2" thickness)	ASTM C423	250 Hz	0.69	0.79	0.90	0.89	0.79	N/A	
		500 Hz	1.08	1.15	1.05	0.95	0.77	N/A	
		1000 Hz	1.01	1.04	1.06	1.04	0.93	N/A	
		2000 Hz	1.00	1.01	1.02	1.00	0.93	N/A	
		NRC	0.95	1.00	1.00	0.95	0.85	N/A	
<b>Sustainability &amp; Environmental</b>									
ICC ES Report Min. Recycled Content	70%					70%			
UL Environmental Product Declaration	Available					Available			
Transparency Documentation Available	HPD <sup>1</sup> , Declare					HPD <sup>1</sup>			

<sup>1</sup>HPD = Health Product Declaration



**Thermafiber® RainBarrier®** products are designed for exceptional performance in rainscreen and exterior cavity wall construction applications. With a full portfolio of continuous insulation (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 & install.



**Thermafiber® FireSpan®** products are designed to provide fire protection in curtain wall and perimeter fire containment systems. These products are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, and vermin resistant. FireSpan® 40 & 90 insulations provide thermal insulation, fire containment, enhanced acoustical performance, and vapour control in many different fire containment assemblies of 2 and 3-hr ratings. See UL/Intertek fire resistance directories for details.



**Thermafiber® Safing** is a compression fit mineral wool firestopping insulation product designed to provide fire protection in perimeter fire containment systems, floor/ceiling and wall penetrations, construction joints, through penetrations, and other firestopping applications. These products are non-combustible, moisture-resistant, non-corrosive, non-deteriorating, and vermin resistant. Thermafiber® Safing provides thermal insulation, fire containment, and enhanced acoustical performance in many different listed fire containment assemblies of 1, 2, and 3-hr ratings. See UL/Intertek fire resistance directories for details.



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