



Johns Manville offers one of the industry's broadest ranges of insulation solutions including fibreglass, mineral wool, blowing wool, polyiso and spray foam.

Submitted To: \_\_\_\_\_

Submitted By: \_\_\_\_\_ Date: \_\_\_\_\_

Job Reference: \_\_\_\_\_

Job Name: \_\_\_\_\_

Address: \_\_\_\_\_

Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

## FIBREGLASS INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	RSI-VALUE/SIZE (thickness, nominal)	R-VALUE/SIZE (thickness, nominal)	INSTALLATION LOCATION	SPECIFICATION COMPLIANCE	
<input type="checkbox"/> UNFACED BATTS	Fibreglass insulation for thermal and acoustical applications with no facing.	<b>FOR METAL FRAMING</b>			CAN/ULC S702-09 CAN/ULC S102 CAN/ULC S129 ASTM C665, Type I ASTM E136 ASTM E84, Class A	
		<input type="checkbox"/> RSI-1.4 / 64 mm	R-8 / 2.5"			
		<input type="checkbox"/> RSI-2.1 / 89 mm	R-12 / 3.5"			
		<input type="checkbox"/> RSI-3.5 / 152 mm	R-20 / 6.00"			
		<input type="checkbox"/> RSI-4.9 / 216 mm	R-28 / 8.50"			
		<input type="checkbox"/> RSI-5.5 / 241 mm	R-31 / 9.50"			
		<input type="checkbox"/> RSI-6.2 / 267 mm	R-35 / 10.5"			
		<input type="checkbox"/> RSI-7.0 / 287 mm	R-40 / 11.30"			
		<input type="checkbox"/> RSI-8.8 / 337 mm	R-50 / 13.25"			
		<b>FOR WOOD FRAMING</b>				
		<input type="checkbox"/> RSI-1.4 / 64 mm	R-8 / 2.5"			
		<input type="checkbox"/> RSI-2.1 / 89 mm	R-12 / 3.5"			
		<input type="checkbox"/> RSI-2.5 / 89 mm	R-14 / 3.5"			
		<input type="checkbox"/> RSI-3.5 / 152 mm	R-20 / 6.0"			
		<input type="checkbox"/> RSI-3.9 / 140 mm	R-22 / 5.5"			
		<input type="checkbox"/> RSI-4.2 / 140 mm	R-24 / 5.5"			
		<input type="checkbox"/> RSI-4.9 / 216 mm	R-28 / 8.5"			
		<input type="checkbox"/> RSI-4.9 / 178 mm	R-28C / 7.0"			

MATERIALS PROVIDED	PRODUCT DESCRIPTION	THICKNESS	WIDTH x LENGTH	INSTALLATION LOCATION	SPECIFICATION COMPLIANCE
<input type="checkbox"/> SOUND-SHIELD®	JM Sound-SHIELD batts are lightweight, sound-absorbent insulation made of long, resilient glass fibres bonded with a thermosetting resin.	<input type="checkbox"/> 38 mm (1.5")	381 mm x 1194 mm (15" x 47")		CAN/ULC S102 CAN/ULC S129 CAN/ULC S114-M80
		<input type="checkbox"/> 70 mm (2.75")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 102 mm (4")	381 mm x 1194 mm (15" x 47")		
		<input type="checkbox"/> 102 mm (4")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 152 mm (6")	406 mm x 1219 mm (16" x 48")		

MATERIALS PROVIDED	PRODUCT DESCRIPTION	RSI-VALUE/SIZE (thickness, nominal)	R-VALUE/SIZE (thickness, nominal)	WIDTH X LENGTH	INSTALLATION LOCATION	SPECIFICATION COMPLIANCE
<input type="checkbox"/> MICRO-PAK	Ideal for applications that require a minimal amount of insulation, like wrapping small pipes, and packing and caulking small gaps or cracks around windows, doors and electrical outlet boxes.	<input type="checkbox"/> RSI-1.4 / 64 mm	<input type="checkbox"/> R-8/2.5"	381 mm x 1219 mm (15" x 48")		CAN/ULC S102 CAN/ULC S129 CAN/ULC S114-M80

## FIBREGLASS INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	THERMAL RESISTANCE		BAGS PER		MINIMUM THICKNESS		MAXIMUM NET COVERAGE		MINIMUM WEIGHT PER UNIT AREA	
		RSI-Value	R-Value	100 m <sup>2</sup>	1,000 ft <sup>2</sup>	mm	in	m <sup>2</sup>	ft <sup>2</sup>	kg/m <sup>2</sup>	lb/ft <sup>2</sup>
<input type="checkbox"/> <b>CLIMATE PRO®B7010 BLOW-IN INSULATION</b>	Premium unbonded fibreglass blowing wool for pneumatic blowing machine installation in attics.  <b>Specification Compliance</b> CAN/ULC S702-97, Type 5 CAN/ULC S102.2 CAN/ULC S114-M80 CAN/ULC S129-95 ASTM C794, Type I ASTM E84, Class A ASTM E136	2.1	12	6.3	5.9	109	4.3	15.8	170.1	0.90	0.19
		2.8	16	8.4	7.8	145	5.7	11.9	127.6	1.21	0.25
		3.5	20	10.5	9.8	181	7.1	9.5	102.1	1.51	0.31
		4.2	24	12.7	11.8	217	8.5	7.9	85.1	1.81	0.37
		4.9	28	14.8	13.7	253	10.0	6.8	72.9	2.11	0.43
		5.6	32	16.9	15.7	289	11.4	5.9	63.8	2.41	0.49
		6.3	36	19.0	17.6	326	12.8	5.3	56.7	2.71	0.56
		7.0	40	21.1	19.6	362	14.2	4.7	51.0	3.01	0.62
		7.7	44	23.2	21.6	398	15.7	4.3	46.4	3.31	0.68
		8.4	48	25.3	23.5	434	17.1	4.0	42.5	3.62	0.74
		8.8	50	26.4	24.5	452	17.8	3.8	40.8	3.77	0.77
		9.1	52	27.4	25.5	470	18.5	3.6	39.3	3.92	0.80
9.8	56	29.5	27.4	506	19.9	3.4	36.5	4.22	0.86		
10.5	60	31.6	29.4	543	21.4	3.2	34.0	4.52	0.93		

MATERIALS PROVIDED	PRODUCT DESCRIPTION	THERMAL RESISTANCE		CAVITY DEPTH		MINIMUM INSTALLED DENSITY		MINIMUM MASS PER UNIT AREA		MAXIMUM NET COVERAGE		BAGS PER	
		RSI-Value	R-Value	mm	in	kg/m <sup>3</sup>	lbs/ft <sup>3</sup>	kg/m <sup>2</sup>	lbs/ft <sup>2</sup>	m <sup>2</sup> /bag	ft <sup>2</sup> /bag	100 m <sup>2</sup>	1,000 ft <sup>2</sup>
<input type="checkbox"/> <b>JM SPIDER® PLUS SPRAY-IN CUSTOM FIBREGLASS INSULATION</b>	Johns Manville Spider® Plus fibreglass blow-in insulation, now featuring interlocking fibre technology, is the next evolution of the JM Formaldehyde-free™ insulation family. Interlocking fibre technology allows the fibres to spring and lock into cavities with no adhesive or netting.  <b>Specification Compliance</b> CAN/ULC S102.2 CAN/ULC S702 ASTM Standard C1014 ASTM Standard C764 ASTM C794, Type I ASTM E84, Class A ASTM E136	<b>FOR WOOD FRAMING</b>											
		2.5	14			24.0	1.5	2.14	0.44	6.4	68.6	15.7	14.6
		2.6	15	89	3.5	28.8	1.8	2.56	0.53	5.3	57.1	18.8	17.5
		4.1	23			24.0	1.5	3.36	0.69	4.1	43.6	24.7	22.9
		4.2	24	140	5.5	28.8	1.8	4.03	0.83	3.4	36.4	29.6	27.5
		5.5	31			24.0	1.5	4.42	0.91	3.1	33.1	32.5	30.2
		5.6	32	184	7.25	28.8	1.8	5.31	1.09	2.6	27.6	39.0	36.3
		6.9	39			24.0	1.5	5.64	1.16	2.4	25.9	41.5	38.5
		7.0	40	235	9.25	28.8	1.8	6.77	1.39	2.0	21.6	49.8	46.3
		8.3	47			24.0	1.5	6.86	1.41	2.0	21.3	50.5	46.9
		8.6	49	286	11.25	28.8	1.8	8.24	1.69	1.7	17.8	60.5	56.3
		<b>STEEL STUDS, PURLINS, ENGINEERED LUMBER, ETC.</b>											
		2.8	16			24.0	1.5	2.44	0.50	5.6	60.0	17.9	16.7
		3.0	17	102	4.0	28.8	1.8	2.93	0.60	4.6	50.0	21.5	20.0
		4.4	25			24.0	1.5	3.66	0.75	3.7	40.0	26.9	25.0
		4.6	26	152	6.0	28.8	1.8	4.39	0.90	3.1	33.3	32.3	30.0
		6.0	34			24.0	1.5	4.88	1.00	2.8	30.0	35.9	33.3
		6.2	35	203	8.0	28.8	1.8	5.86	1.20	2.3	25.0	43.1	40.0
		7.4	42			24.0	1.5	6.10	1.25	2.2	24.0	44.9	41.7
		7.8	44	254	10.0	28.8	1.8	7.32	1.50	1.9	20.0	53.8	50.0
8.8	50			24.0	1.5	7.32	1.50	1.9	20.0	53.8	50.0		
9.2	52	305	12.0	28.8	1.8	8.79	1.80	1.5	16.7	64.6	60.0		

## MINERAL WOOL INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	THICKNESS	WIDTH x LENGTH	INSTALLATION LOCATION	SPECIFICATION COMPLIANCE
<input type="checkbox"/> <b>TEMPCONTROL®</b>	Mineral Wool batts designed to deliver thermal control in wood-stud cavities of exterior walls, basements, and heated crawl spaces.	<input type="checkbox"/> RSI-2.5 (R-14) / 89 mm ( 3.5")	387 mm x 1194 mm (15.25" x 47")		ASTM C665 Type 1 ASTM E136 ASTM E84, Class A ASTM C518 ASTM E970 ASTM C1104 ASTM C1304 ASTM C665 ASTM C1338
		<input type="checkbox"/> RSI-2.5 (R-14) / 89 mm ( 3.5")	584 mm x 1194 mm (23" x 47")		
		<input type="checkbox"/> RSI-3.9 (R-22) / 140 mm (5.5")	387 mm x 1194 mm (15.25" x 47")		
		<input type="checkbox"/> RSI-3.9 (R-22) / 140 mm (5.5")	584 mm x 1194 mm (23" x 47")		
		<input type="checkbox"/> RSI-4.9 (R-28) / 184 mm (7.25")	387 mm x 1194 mm (15.25" x 47")		
		<input type="checkbox"/> RSI-4.9 (R-28) / 184 mm (7.25")	584 mm x 1194 mm (23" x 47")		
<input type="checkbox"/> <b>SOUND &amp; FIRE BLOCK®</b>	Mineral Wool batts designed to deliver noise control in wood stud cavities of interior walls and ceilings between floors.	<input type="checkbox"/> 76 mm (3")	387 mm x 1194 mm (15.25" x 47")		ASTM E90 ASTM E84 Class A ASTM E970 ASTM E136 ASTM C1104 ASTM C1304 ASTM C665 ASTM C1338
		<input type="checkbox"/> 76 mm (3")	610 mm x 1219 mm (24" x 48")		
<input type="checkbox"/> <b>SOUND ATTENUATION FIRE BATTS (SAFB)</b>	An unfaced batt designed to deliver noise control in metal stud wall cavities of interior or exterior walls, or above suspended ceilings.	<input type="checkbox"/> 38 mm (1.5")	406 mm x 1219 mm (16" x 48")		CAN/ULC S102 CAN/ULC S114 CAN/ULC S702-09 ASTM C665 Type 1 ASTM C1104 ASTM C1338 ASTM E84, Class A ASTM E136
		<input type="checkbox"/> 38 mm (1.5")	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 51 mm (2")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 51 mm (2")	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 64 mm (2.5")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 64 mm (2.5")	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 76 mm (3")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 76 mm (3")	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 89 mm (3.5")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 89 mm (3.5")	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 102 mm (4")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 102 mm (4")	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 114 mm (4.5")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 114 mm (4.5")	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 127 mm (5")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 127 mm (5")	610 mm x 1219 mm (24" x 48")		
<input type="checkbox"/> <b>SAFING</b>	Safing is designed to prevent the passage of smoke and flame in fire rated systems in ducts, joints, penetrations and between the spandrel panel and floor slabs in curtainwall systems.	<input type="checkbox"/> 100 mm (4")	610 mm x 1219 mm (24" x 48")		CAN/ULC S129 CAN/ULC S102-M CAN/ULC S114-M ASTM C423 ASTM C612 ASTM C665 ASTM C1104 ASTM E814 ASTM E84, Class A ASTM E96 ASTM E136
		<input type="checkbox"/> 140 mm (5.5")	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 140 mm (5.5")	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 152 mm (6")	406 mm x 1219 mm (16" x 48")		
<input type="checkbox"/> 152 mm (6")	610 mm x 1219 mm (24" x 48")				

## MINERAL WOOL INSULATION PRODUCTS

MATERIAL PROVIDED	PRODUCT DESCRIPTION	THICKNESS	NOMINAL DENSITY	WIDTH x LENGTH	INSTALLATION LOCATION	SPECIFICATION COMPLIANCE
<input type="checkbox"/> <b>CURTAINWALL</b>	A mineral wool board designed to provide superior fire resistance and thermal properties in glass, metal, and masonry curtainwall spandrel systems.	<input type="checkbox"/> 38 mm (1.5")	<input type="checkbox"/> (64 kg/m <sup>3</sup> ) 4.0 pcf	610 mm x 1219 mm (24" x 48")		ASTM C423 ASTM C612 ASTM C665 ASTM C1104 ASTM C1338 ASTM E84, Class A ASTM E96 ASTM E136
		<input type="checkbox"/> 51 mm (2")*	<input type="checkbox"/> (128 kg/m <sup>3</sup> ) 8.0 pcf	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 64 mm (2.5")				
		<input type="checkbox"/> 76 mm (3")				
		<input type="checkbox"/> 102 mm (4")				
		*Available in 8# FSP				
<input type="checkbox"/> <b>CLADSTONE™ WATER &amp; FIRE BLOCK</b>	Mineral wool rigid board designed for thermal and moisture control outside of the building envelope.	<input type="checkbox"/> 51 mm (2")	72 kg/m <sup>3</sup> (4.5 pcf)	406 mm x 1219 mm (16" x 48")		CAN/ULC S703-09 CAN/ULC S 129 CAN/ ULC S114 CAN/ULC S102 ASTM C665 ASTM C612 ASTM E136 ASTM E96 ASTM E84, Class A ASTM C1104 ASTM C356 ASTM C1335
		<input type="checkbox"/> 51 mm (2")	72 kg/m <sup>3</sup> (4.5 pcf)	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 51 mm (2")	96 kg/m <sup>3</sup> (6.0 pcf)	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 51 mm (2")	96 kg/m <sup>3</sup> (6.0 pcf)	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 76 mm (3")	72 kg/m <sup>3</sup> (4.5 pcf)	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 76 mm (3")	72 kg/m <sup>3</sup> (4.5 pcf)	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 76 mm (3")	96 kg/m <sup>3</sup> (6.0 pcf)	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 76 mm (3")	96 kg/m <sup>3</sup> (6.0 pcf)	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 102 mm (4")	72 kg/m <sup>3</sup> (4.5 pcf)	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 102 mm (4")	72 kg/m <sup>3</sup> (4.5 pcf)	610 mm x 1219 mm (24" x 48")		
		<input type="checkbox"/> 102 mm (4")	96 kg/m <sup>3</sup> (6.0 pcf)	406 mm x 1219 mm (16" x 48")		
		<input type="checkbox"/> 102 mm (4")	96 kg/m <sup>3</sup> (6.0 pcf)	610 mm x 1219 mm (24" x 48")		

## FOAM SHEATHING INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	RSI-VALUE/SIZE (thickness, nominal) CANADIAN FORMULA	R-VALUE/SIZE (thickness, nominal) US FORMULA	INSTALLATION LOCATION	SPECIFICATION COMPLIANCE
<input type="checkbox"/> <b>AP™ FOIL-FACED POLYISOCYANURATE FOAM SHEATHING</b>	Rigid foam sheathing insulation for non-exposed uses in commercial and residential construction. Composed of a polyisocyanurate foam core bonded on each side to foil laminate facers.	<input type="checkbox"/> RSI-0.5 / 13 mm	R-2.7 / 0.50"		ASTM C1289 Type 1 Class 1,2 CAN/ULC S704, Type 1, Class 1 CCMC 13104-L
		<input type="checkbox"/> RSI-0.9 / 19 mm	R-5 / 0.75"		
		<input type="checkbox"/> RSI-1.0 / 25 mm	R-6 / 1.00"		
		<input type="checkbox"/> RSI-1.3 / 31 mm	R-7.5 / 1.20'		
		<input type="checkbox"/> RSI-1.6 / 38 mm	R-9.3 / 1.50"		
		<input type="checkbox"/> RSI-2.2 / 51 mm	R-13.0 / 2.00"		
		<input type="checkbox"/> RSI-2.8 / 64 mm	R-16 / 2.50"		
		<input type="checkbox"/> RSI-3.4 / 76 mm	R-19 / 3.00"		
		<input type="checkbox"/> RSI-3.7 / 83 mm	R-21 / 3.25"		
		<input type="checkbox"/> RSI-4.0 / 89 mm	R-22 / 3.50"		
<input type="checkbox"/> RSI-4.5 / 102 mm	R-26 / 4.00"				
<input type="checkbox"/> <b>R-PANEL™</b>	Rigid roof insulation board composed of a closed-cell polyisocyanurate foam core bonded in the foaming process to universal fibre glass reinforced facers used above the roof deck to provide high thermal efficiency.	<input type="checkbox"/> RSI-1.0 / 25 mm	R-5.7 / 1"		ASTM C1289, Type II, Class 1, Grade 2 CAN/ULC S704, Type II, Class 3
		<input type="checkbox"/> RSI-1.5 / 38 mm	R-8.6 / 1.5"		
		<input type="checkbox"/> RSI-2.0 / 51 mm	R-11.4 / 2"		
		<input type="checkbox"/> RSI-2.5 / 64 mm	R-14.4 / 2.5"		
		<input type="checkbox"/> RSI-3.1 / 76 mm	R-17.4 / 3"		
		<input type="checkbox"/> RSI-3.6 / 89 mm	R-20.5 / 3.5"		
		<input type="checkbox"/> RSI-4.2 / 102 mm	R-23.6 / 4"		

## SPRAY POLYURETHANE FOAM INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	RSI-VALUE/SIZE (thickness, nominal) CANADIAN FORMULA	R-VALUE/SIZE (thickness, nominal) US FORMULA	INSTALLATION LOCATION	SPECIFICATION COMPLIANCE
<input type="checkbox"/> <b>JM CORBOND III® SPF</b>	Closed-cell spray polyurethane foam (SPF) is a medium density, durable insulation that provides superior thermal, moisture and air barrier performance, while strengthening the structure of buildings.	<input type="checkbox"/> RSI-1.0 / 25 mm	<input type="checkbox"/> R-5.7 / 1"  2.40 m <sup>2</sup> k/w at 50 mm (Initial - ASTM C518); 2.31 m <sup>2</sup> k/w at 50 mm (Conditioned 90 days at 60°C - ASTM C518); 2.03 m <sup>2</sup> k/w at 50 mm (Long Term - CAN/ULC S770 LTTR)		CAN/ULC S102 CAN/ULC S127 CAN/ULC S770 LTTR CAN/ULC S774 ASTM E2357 ABAA (evaluated and listed material and assembly) GREENGUARD Gold GREENGUARD

## OTHER BUILDING PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	SIZE	INSTALLATION LOCATION
<input type="checkbox"/> VENT CHUTE	Rigid foam channel that creates a ventilation space between the roof deck and insulation to relieve heat and moisture buildup in the attic.	<input type="checkbox"/> Perforated for 609 mm (24") o.c. joists (1219 mm x 559 mm channel) (48" x 22" channel)	

MATERIALS PROVIDED	PRODUCT DESCRIPTION	RSI-VALUE/SIZE (thickness, nominal)	WIDTH x LENGTH	INSTALLATION LOCATION	SPECIFICATION COMPLIANCE
<input type="checkbox"/> MICROLITE XG	General purpose Formaldehyde-free™ fibreglass insulation for use in both roofs and walls of pre-engineered metal buildings.	<input type="checkbox"/> 25 mm (1")	1219 mm x 2540 mm (48" x 100')		
<input type="checkbox"/> UMBI	Formaldehyde-free™ fibreglass blanket insulation designed for lamination to a wide choice of custom vapour-retarding facings.	<input type="checkbox"/> RSI-1.2 (R-7) / 48 mm (1.9")	1219 mm x 2794 mm (48" x 110')		CAN/ULC-S702-09 CAN/ULC-S102 ULC-S129 CAN4-S114-M80
		<input type="checkbox"/> RSI-1.8 (R-10) / 70 mm (2.75")	1219 mm x 2032 mm (48" x 80')		
		<input type="checkbox"/> RSI-2.5 (R-14) / 99 mm (3.9")	1219 mm x 1422 mm (48" x 56')		
<input type="checkbox"/> PEBS BLANKET™	General purpose Formaldehyde-free™ fibreglass insulation for use in both roofs and walls of pre-engineered metal buildings.	<input type="checkbox"/> RSI-1.8 (R-10) / 76 mm (3")	1219 mm x 2286 mm (48" x 90')		CAN/ULC-S702, Type 1 CAN/ULC-S102 ULC-S129 CAN4-S114-M80
		<input type="checkbox"/> RSI-2.1 (R-12) / 89 mm (3.5")	1219 mm x 2032 mm (48" x 80')		
		<input type="checkbox"/> RSI-2.3 (R-13) / 102 mm (4")	1219 mm x 1727 mm (48" x 68')		
		<input type="checkbox"/> RSI-3.0 (R-17) / 127 mm (5")	1219 mm x 1397 mm (48" x 55')		
		<input type="checkbox"/> RSI-3.4 (R-19) / 152 mm (6")	1219 mm x 1473 mm (48" x 58')		
		<input type="checkbox"/> RSI-4.4 (R-25) / 203 mm (8")	1219 mm x 864 mm (48" x 34')		
<input type="checkbox"/> PAN-INSUL®	Unfaced fibreglass available in widths and thicknesses to fill the wall panel or roof cavity in pre-engineered metal buildings.	<input type="checkbox"/> RSI-5.3 (R-30) / 229 mm (9")	1219 mm x 762 mm (48" x 30')		CAN/ULC-S702-09 CAN/ULC-S102 ULC-S129 CAN4-S114-M80
		<input type="checkbox"/> 38 mm (1.5")	1219 mm x 1524 mm (48" x 60')		
<input type="checkbox"/> GOBOARD® LT	Durable, ultra-lightweight waterproof tile backer board.	<input type="checkbox"/> RSI-0.21 (R-1.2) / 6.35 mm (0.25")	914 mm x 1524 mm (3' x 5')		ASTM C473 ASTM C518 ASTM D2394 ASTM D1037 ASTM E84 ASTM D4068 ASTM E96 ASTM G21/G22 ASTM C666 ASTM C627
		<input type="checkbox"/> RSI-0.21 (R-1.2) / 6.35 mm (0.25")	1219 mm x 2438 mm (4' x 8')		
		<input type="checkbox"/> RSI-0.41 (R-2.3) / 12.7 mm (0.5")	914 mm x 1524 mm (3' x 5')		
		<input type="checkbox"/> RSI-0.41 (R-2.3) / 12.7 mm (0.5")	1219 mm x 2438 mm (4' x 8')		

## FIRE SAFETY

Johns Manville Fibre Glass Building Insulation, without facing, has been tested in accordance with ASTM E84 and has a flame spread rating of less than 25 and a smoke developed rating of less than 50. UL Label File R-3711 available upon request, documenting a Fire Hazard Classification rating of 25/50 or less. Unfaced fibre glass insulation has passed the ASTM E136 test and is therefore considered noncombustible by the major building codes.

**Note to the specifier:** Delete sections not used; fill in correct selections where indicated; and/or add other information as required.

Specifications apply to wall, ceiling and/or floor insulation, both thermal and acoustical, except where noted.

Insulation Materials meet the CCMC Evaluation Listing: 12276

## I. SCOPE

**A.** The general conditions in Division 1 of this specification form an integral part of the contract for the work specified in this section and all conditions contained therein shall be binding upon the contractor and shall govern the work.

**B.** No substitution will be permitted for materials and methods covered in this section.

## II. WORK INCLUDED

**A.** The work under this section of the specifications shall include furnishing all supervision, labor, materials, tools and equipment, and performing all operations necessary for the complete insulation system as described in the drawings and specifications in a first-class, workman-like manner.

## III. GENERAL REQUIREMENTS

**A.** All materials must be delivered in original unopened packages with manufacturer's name and contents legibly indicated. Store insulation indoors. Keep insulation clean and dry at all times. When transporting, cover completely with a waterproof tarpaulin as necessary.

**B.** All work, by other trades, to be concealed by insulation must be inspected and approved by those having jurisdiction; execution of the insulation installation shall not proceed until so authorized.



## IV. MATERIALS [REPEAT FOR EACH LOCATION] THERMAL-ACOUSTICAL INSULATION

**A.** Insulation for [location: ceilings, walls, floors, etc.] shall be Johns Manville Formaldehyde-free™ fibreglass insulation [Unfaced, Climate Pro®, JM Spider®, in batt, board or loose-fill form, [thickness] thick, RSI/R-value\* [specify]].

\*69.85mm sound-control batts do not carry an R-value.

## V. INSTALLATION

Note: The following apply to both thermal and acoustical applications except for B and C, which apply to thermal applications only.

**A.** Installation of the insulation shall be in accordance with the applicable building code, industry standards and any specific instructions on the product package.

**B.** Insulation shall fit all framing spaces, including areas between joists and outside headers, behind electrical outlets and piping, and other areas, to form a complete insulating blanket around the heated or cooled areas of the structure.

**C.** In colder climate areas, vapour retarders (whether attached to the insulation or applied separately) are often placed toward the heated or conditioned side of the wall. This is done to reduce water vapour penetration into the wall from the building interior. Check your local building codes for vapour retarder requirements.

**D.** Insulation should not be installed over or within 76 mm (3") of fixtures containing lights, fans or other heat-generating electrical devices. Baffles should be used to maintain these clearances. Failure to do so may result in damage to these devices. To determine insulation clearance requirements, local building code requirements must be followed. IC-rated light fixtures may be covered with insulation.

Metal flues from furnaces, hot water tanks, etc., and some types of chimneys require 25 mm (1") or more clearance from combustible materials. Some may require clearance from noncombustible materials (per CAN/ULC- S-114-05. Standard method of test for Determination of Non-Combustibility in Building Materials.) like unfaced fibre glass insulation. Equipment and appliance manufacturers' instructions and local building codes shall be consulted for specific insulation clearance requirements.

<sup>†</sup>Johns Manville Fibre Glass Building Insulations, exclusive of facings, have passed the ASTM E136 test. Products that pass this test are considered noncombustible by the major building codes.