Insulation Systems Submittal Form

JOHNS MANVILLE: A HISTORY OF INNOVATION

Johns Manville is the only manufacturer of fiber glass, polyurethane spray foam and polyisocyanurate insulation. This allows Johns Manville to offer a complete range of solutions that includes foam and fiber glass products, so you can be certain that our team of experts will direct you to the best insulation option to suit your particular requirements.

In our 150-year history at the forefront of insulation production, we are not just the only manufacturer with a wide range of insulation solutions, but we also led the way as the first to offer a full line of certified Formaldehyde-free™ fiber glass building insulation.

Contact your local Johns Manville representative today and find the easiest way to achieve energy efficiency in your builds through our foam and fiber glass insulation solutions. Visit www.JM.com for more information and current product availability information. Reference product data sheets for additional information.

Submitted To: _____

Submitted By: _____ Date: _____

Johns Manville Preferred Partners Level: _____

Job Reference: _____

Job Name: _____

Address: _____

State: _____ Zip: _____

Email Address: _____

Phone: _____ Fax: _____

Insulation Systems Submittal Form

FIBER GLASS INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	R-VALUE/SIZE (thickness, nominal)	RSI-VALUE/SIZE (thickness, nominal)	LOCATION	SPECIFICATION COMPLIANCE
☐ **UNFACED BATTS** ***JM FORMALDEHYDE-FREE™ INSULATION***	Fiber glass insulation for thermal and acoustical applications with no facing.	**FOR METAL FRAMING**			ASTM Standard C665 Type I Class A (meets a 25 or less flame spread) Category II
		☐ R-25/8¼"	☐ RSI-4.4/210 mm		
		☐ R-21/5½"	☐ RSI-3.7/140 mm		
		☐ R-19/6½"	☐ RSI-3.3/165 mm		
		☐ R-13/3½"	☐ RSI-2.3/89 mm		
		☐ R-11/3⅝"	☐ RSI-1.9/92 mm		
		☐ N/A/2¾"	☐ N/A/70 mm		
		FOR WOOD FRAMING			
		☐ R-49/13½"			
		☐ R-38/13"	☐ RSI-6.7/305 mm		
		☐ R-38/12"	☐ RSI-6.7/330 mm		
		☐ R-38c/10¼"	☐ RSI-6.7/260 mm		
		☐ R-30/10¼"	☐ RSI-5.3/260 mm		
		☐ R-30c/8¼"	☐ RSI-5.3/210 mm		
		☐ R-22/7½"	☐ RSI-3.9/190 mm		
		☐ R-21/5½"	☐ RSI-3.7/140 mm		
		☐ R-20/5.2"	☐ RSI-3.5/89 mm		
		☐ R-19/6½"	☐ RSI-3.3/165 mm		
		☐ R-15/3½"	☐ RSI-2.6/89 mm		
		☐ R-13/3½"	☐ RSI-2.3/89 mm		
		☐ R-11/3½"	☐ RSI-1.9/ 89 mm		
☐ **FOIL-FACED BATTS** ***JM FORMALDEHYDE-FREE™ INSULATION***	Fiber glass batts for thermal and acoustical applications with a foil/kraft laminate facing.	**FOR METAL FRAMING**			ASTM Standard C665 Type III Class B Category 1
		☐ R-30/10¼"	☐ RSI-5.3/260 mm		
		☐ R-19/6½"	☐ RSI-3.3/165 mm		
		☐ R-11/3⅝"	☐ RSI-1.9/ 92 mm		
☐ **KRAFT-FACED BATTS** ***JM FORMALDEHYDE-FREE™ INSULATION***	Fiber glass batts for thermal and acoustical applications faced with a flanged, kraft paper vapor retarder.	**FOR METAL FRAMING**			ASTM Standard C665 Type II Class C Category 1
		☐ R-19/6½"	☐ RSI-3.3/165 mm		
		☐ R-13/3½"	☐ RSI-2.3/89 mm		
		☐ R-11/3⅝"	☐ RSI-1.9/92 mm		
		FOR WOOD FRAMING			
		☐ R-49/13½"	☐ RSI-8.6/343 mm		
		☐ R-38/13"	☐ RSI-6.7/305 mm		
		☐ R-38/12"	☐ RSI-6.7/330 mm		
		☐ R-38c/10¼"	☐ RSI-6.7/260 mm		
		☐ R-30/10¼"	☐ RSI-5.3/260 mm		
		☐ R-30c/8¼"	☐ RSI-5.3/210 mm		
		☐ R-21/5½"	☐ RSI-3.7/140 mm		
		☐ R-20/5.2"	☐ RSI-3.5/89 mm		
		☐ R-19/6½"	☐ RSI-3.3/165 mm		
		☐ R-15/3½"	☐ RSI-2.6/89 mm		
		☐ R-13/3½"	☐ RSI-2.3/89 mm		
		☐ R-11/3½"	☐ RSI-1.9/ 89 mm		
☐ **FSK-25 FACED BATTS** ***JM FORMALDEHYDE-FREE™ INSULATION***	Fiber glass batts for thermal and acoustical applications faced with a flame-resistant, foil-scrim-kraft laminate. *Extended tab	**FOR METAL FRAMING**			ASTM Standard C665 Type III Class A Category 1
		☐ *R-38/13"	☐ RSI-6.7/330 mm		
		☐ R-30/10¼"	☐ RSI-5.3/260 mm		
		☐ R-19/6½"	☐ RSI-3.3/165 mm		
		☐ R-13/3½"	☐ RSI-2.3/89 mm		
		☐ R-11/3⅝"	☐ RSI-1.9/92 mm		
		FOR WOOD FRAMING			
		☐ R-19/6½"	☐ RSI-3.3/165 mm		
		☐ R-13/3½"	☐ RSI-2.3/89 mm		

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FIBER GLASS INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	R-VALUE/SIZE (thickness, nominal)	RSI-VALUE/SIZE (thickness, nominal)	LOCATION	SPECIFICATION COMPLIANCE
☐ **COMFORTTHERM® POLY-ENCAPSULATED BATTS** ☐ **WITHOUT VAPOR-RETARDER FACING** ☐ **WITH VAPOR-RETARDER FACING** ***JM FORMALDEHYDE-FREE™ INSULATION***	Poly-encapsulated batts for thermal and acoustical applications are designed for concealed metal and wood-framed wall and ceiling applications, directly above suspended ceiling systems and under floors. Poly-encapsulation makes installation cleaner and acts as a vapor retarder. ComfortTherm Poly-encapsulated Batts are also available with a vapor-retarder facing, recommended for hot, humid climates and over existing attic insulation.	**FOR METAL FRAMING** ☐ R-19/6½" ☐ R-13/3½" ☐ R-11/3⅝" **FOR WOOD FRAMING** ☐ R-30/10¼" ☐ R-21/5½" ☐ R-19/6½" ☐ R-13/3½" ☐ R-11/3½" **FOR WOOD FRAMING UNDER FLOORS (REVERSE FLANGE)** ☐ R-19/6½"	☐ RSI-3.3/165 mm ☐ RSI-2.3/89 mm ☐ RSI-1.9/92 mm ☐ RSI-5.3/260 mm ☐ RSI-3.7/140 mm ☐ RSI-3.3/165 mm ☐ RSI-2.3/89 mm ☐ RSI-1.9/89 mm ☐ RSI-3.3/165 mm		ASTM Standard C665 Type II Class A Category 1 (non-perforated surface) UL File R3711 ASTM E84 Flame Spread 25 or less Smoke Developed 50 or less
☐ **OTHER**					
☐ **PANEL DECK FSK-25 FACED BATTS** ***JM FORMALDEHYDE-FREE™ INSULATION***	Fiber glass batts for thermal and acoustical applications faced with an extended tab, flame-resistant, foil-scrim-kraft laminate facing.	☐ R-30/10¼" ☐ R-19/6½"	☐ RSI-5.3/260 mm ☐ RSI-3.3/165 mm		ASTM Standard C665 Type III Class A Category 1
☐ **PANEL DECK PSK-FACED BATTS** ***JM FORMALDEHYDE-FREE™ INSULATION***	Fiber glass batts for thermal and acoustical applications faced with extended tab, flame-resistant, white, polypropylenescrim-kraft laminate facing.	☐ R-19/6¼"	☐ RSI-3.3/159 mm		ASTM Standard C665 Type II Class A Category 1
☐ **BASEMENT WALL INSULATION** ***JM FORMALDEHYDE-FREE™ INSULATION***	Fiber glass blanket, either unfaced or white polypropylene faced, designed to insulate basement or crawl space walls without framing. The faced product with seams taped provides a finished wall surface.	**FOR WOOD FRAMING** ☐ R-11/3½"	☐ RSI-1.9/ 89 mm		ASTM Standard C665 Type I Unfaced Category 2 (perforated facing) ASTM Standard C665 Type II, Class A Category 1 (faced) Category 2 (perforated facing)
☐ **POST-FRAME FACED INSULATION** ***JM FORMALDEHYDE-FREE™ INSULATION***		**FOR WOOD FRAMING** ☐ R-19/6½"	☐ RSI-3.3/165 mm		ASTM Standard C665 Type I Unfaced Category 2 (perforated facing) ASTM Standard C665 Type II, Class A Category 1 (faced) Category 2 (perforated facing)

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FIBER GLASS INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	LOCATION
☐ **INSUL-SHIELD®**	A series of flexible, semi-rigid or rigid fiber glass boards available unfaced or with FSK (foil-scrim-kraft facings), white PSK (polypropylene-scrim-kraft facings) or black mat facings in the density/thermal ranges listed below. Coated black Insul-SHIELD is available in roll form. Because of its rigidity, the insulation can often be used where framing is not present.	
☐ **INSUL-SHIELD® FSK**		
☐ **INSUL-SHIELD® PSK**		
☐ **INSUL-SHIELD® BLACK-FACED ROLLS**		

Physical Properties

Product Name	Density		"k" values*		Thickness		R-value*	RSI*	
	lb/ft³	kg/m³	Btu•in / (hr•ft²°F)	W / m•K	inches	mm	(hr•ft²•°F) / Btu	m²•K/W	
I/S 150	1.5	24.0	0.24	0.035	1	25	4.2	0.74	
					1½	38	6.3	1.11	
					2	51	8.3	1.46	
					2½	64	10.4	1.83	
					3	76	12.5	2.20	
					3½	89	14.6	2.57	
					4	102	16.7	2.94	
I/S 225	2.25	36.1	0.23	0.033	1	25	4.3	0.76	
					1½	38	6.5	1.14	
					2	51	8.7	1.53	
					2½	64	10.9	1.92	
					3	76	13.0	2.29	
					3½	89	15.2	2.68	
					4	102	17.4	3.06	
I/S 300	3.0	48.1	0.23	0.033	1	25	4.3	0.76	
					1½	38	6.5	1.14	
					2	51	8.7	1.53	
					2½	64	10.9	1.92	
					3	76	13.0	2.29	
					3½	89	15.2	2.68	
					4	102	17.4	3.06	
I/S 600	6.0	96.1	0.22	0.032	1	25	4.5	0.79	
					1½	38	6.8	1.20	
					2	51	9.1	1.60	
I/S Black-Faced Rolls	1.5	24.0	0.25	0.036	1	25	4.2	0.74	
					2	51	8.3	1.46	

*Thermal properties per ASTM C518.
**Black Mat Insul-SHIELD available for these thicknesses only. Other thicknesses available by special order and subject to minimums.

Specification Compliance†

Type	I/S 100	I/S 150	I/S 225	I/S 300	I/S 600	I/S Coated Black
ASTM C612, Type IA, Category 1††	X	X	X	X	X	X
ASTM C612, Type IB, Category 1††		X	X	X	X	
ASTM C612, Type IB, Category 2††				X	X	
ASTM C553, Type I and II††	X	X				
ASTM C665, Type I††	X	X				
ASTM C665, Type III, Class A, Category 1††	X					
ASTM E136 (Noncombustible)	X	X	X	X		
ASTM E84 (Flame/Smoke 25/50 or less)	X	X	X	X	X	X

†When ordering material under a government specification that requires specific lot testing and certification of compliance prior to shipment, this must be requested on the purchase order. There may be additional charges for specification compliance testing.
††Not tested for use at elevated temperatures.

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FIBER GLASS INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	R-VALUE	INSTALLED THICKNESS	SETTLED THICKNESS	BAGS PER 1,000 FT²	MAXIMUM NET COVERAGE	MINIMUM WEIGHT PER SQUARE FOOT
☐ **CLIMATE PRO® BLOW-IN INSULATION** ***JM FORMALDEHYDE-FREE™ INSULATION***	Premium unbonded fiber glass blowing wool for pneumatic blowing machine installation in attics.	60	20.7	20.7	29.5	34	0.928
		49	17.3	17.3	23.5	43	0.739
		44	15.7	15.7	20.8	48	0.656
		38	13.8	13.8	17.7	56	0.559
		30	11.1	11.1	13.7	73	0.432
		26	9.7	9.7	11.8	85	0.371
		22	8.3	8.3	9.9	101	0.310
		19	7.2	7.2	8.4	118	0.266
		13	5.0	5.0	5.7	176	0.179
		11	4.3	4.3	4.8	209	0.150
☐ **CLIMATE PRO BIBS® BLOW-IN-BLANKET® SYSTEM** ***JM FORMALDEHYDE-FREE™ INSULATION***	Premium unbonded fiber glass blowing wool for installation in enclosed cavities using the Blow-In-Blanket System® (BIBS®).	39	9.25" (Nominal 2x10)		49	20.4	1.54
		30	7.25" (Nominal 2x8)		28.7	34.8	0.91
		23	5.50" (Nominal 2x6)		21.8	45.8	0.69
		15	3.50" (Nominal 2x4)		13.9	72	0.44
☐ ***JM SPIDER® PLUS SPRAY-IN CUSTOM FIBER GLASS INSULATION*** ***JM FORMALDEHYDE-FREE™ INSULATION***	Johns Manville Spider® Plus fiber glass blow-in insulation, now featuring interlocking fiber technology, is the next evolution of the JM Formaldehyde-free™ insulation family. Interlocking fiber technology allows the fibers to spring and lock into cavities with no adhesive or netting. **Specification Compliance** ASTM Standard C1014 ASTM Standard C764 The JM Spider system meets all building code fire test equirements for concealed and exposed insulation.	23	5.50" (Nominal 2x6)		27.5	36.4	0.83
		22			22.9	43.6	0.69
		15	3.50" (Nominal 2x4)		17.5	57.1	0.53
		14			14.6	68.6	0.44
☐ ***JM SPIDER® PLUS BIBS*** ***JM FORMALDEHYDE-FREE™ INSULATION***	The Blow-In-Blanket System (BIBS®) is a patented process for installing JM Spider Plus loose-fill insulation. JM Spider Plus fiber is blown in dry behind BIBS netting for complete coverage making it easier to install at R-15 and R-23 in 2x4 and 2x6 walls.	23	5.50" (Nominal 2x6)		28	36	0.825
		15	3.50" (Nominal 2x4)		18	57	0.525

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MINERAL WOOL INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	AVAILABILITY		LOCATION	SPECIFICATION COMPLIANCE
☐ **SOUND ATTENUATION FIRE BATTS (SAFB)**	An unfaced batt designed to deliver noise control in metal stud wall cavities of interior or exterior walls, or above suspended ceilings	**Thickness** ☐ 1.00" (25 mm) ☐ 1.50" (38 mm) ☐ 1.50" (38 mm) ☐ 2.00" (51 mm) ☐ 3.00" (76 mm) ☐ 3.00" (76 mm) ☐ 4.00" (102 mm) ☐ 6.00" (152 mm) ☐ 6.00" (152 mm)	**Width x Length** ☐ 24" x 48" (610 mm x 1219 mm ☐ 16" x 48" (406 mm x 1219 mm) ☐ 24" x 48" (610 mm x 1219 mm) ☐ 16" x 48" (406 mm x 1219 mm) ☐ 16" x 48" (406 mm x 1219 mm ☐ 24" x 48" (610 mm x 1219 mm) ☐ 24" x 48" (610 mm x 1219 mm) ☐ 16" x 48" (406 mm x 1219 mm) ☐ 24" x 48" (610 mm x 1219 mm)		ASTM C665 Type 1 ASTM C665 ASTM C1104 ASTM C1338 ASTM E84 ASTM E136
☐ **CURTAINWALL**	A mineral wool board designed to provide superior fire resistance and thermal properties in glass, metal, and masonry curtainwall spandrel systems.	**Nominal Density** ☐ 4.0 pcf (64 kg/m^3) ☐ 6.0 pcf (96 kg/m^3) ☐ 8.0 pcf (128 kg/m^3) ☐ Custom Size:	**Width x Length** ☐ 24" x 48" (610 mm x 1219 mm) ☐ 24" x 48" (610 mm x 1219 mm) ☐ 24" x 48" (610 mm x 1219 mm)		ASTM C423 ASTM C612 ASTM C665 ASTM C1104 ASTM C1338 ASTM E84 ASTM E96 ASTM E136
☐ **SAFING**	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.	**Thickness** ☐ 4.00" (100mm)	**Width x Length** ☐ 24" x 48" (610 mm x 1219 mm)		ASTM C423 ASTM C612 ASTM C665 ASTM C1104 ASTM C1338 ASTM E84 ASTM E96 ASTM E136
☐ **TEMPCONTROL®**	Mineral Wool batts designed to deliver thermal control in wood-stud cavities of exterior walls, basements, and heated crawl spaces.	**R-Value/Thickness** ☐ R-15 TempControl / 3.25" ☐ R-23 TempControl / 5.5" ☐ R-23 TempControl / 5.5"	**Width x Length** ☐ 15.25" x 47" ☐ 23" x 47" ☐ 15.25" x 47"		ASTM C665 Type 1 ASTM E136 ASTM E84 ASTM C518 ASTM E970 ASTM C1104 ASTM C1304 ASTM C665 ASTM C1338
☐ **CANADA TEMPCONTROL® PRODUCTS**		**RSI-Value/Thickness** ☐ R-14 TempControl (RSI-2.5) / 3.5" (89 mm) ☐ R-14 TempControl (RSI-2.5) / 3.5" (89 mm) ☐ R-22 TempControl (RSI-3.9) / 5.5" (140 mm) ☐ R-22 TempControl (RSI-3.9) / 5.5" (140 mm) ☐ R-24 TempControl (RSI-4.2) / 5.5" (140 mm) ☐ R-24 TempControl (RSI-4.2) / 5.5" (140 mm) ☐ R-28 TempControl (RSI-4.9) / 7.25" (184 mm) ☐ R-28 TempControl (RSI-4.9) / 7.25" (184 mm)	**Width x Length** ☐ 15.25" x 47" (387 mm x 1194 mm) ☐ 23" x 47" (584 mm x 1194 mm) ☐ 15.25" x 47" (387 mm x 1194 mm) ☐ 23" x 47" (584 mm x 1194 mm) ☐ 15.25" x 47" (387 mm x 1194 mm) ☐ 23" x 47" (584 mm x 1194 mm) ☐ 15.25" x 47" (387 mm x 1194 mm) ☐ 23" x 47" (584 mm x 1194 mm)		
☐ **SOUND & FIRE BLOCK®**	Mineral Wool batts designed to deliver noise control in wood stud cavities of interior walls and ceilings between floors.	**Thickness** ☐ Sound & Fire Block 3" (76 mm)	**Width x Length** ☐ 15.25" (387 mm) x 47" (1194 mm)		ASTM E90 ASTM E84 ASTM E970 ASTM E136 ASTM C1104 ASTM C1304 ASTM C665 ASTM C1338 STC-47

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FOAM SHEATHING INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	R-VALUE/SIZE (thickness, nominal)	RSI-VALUE/SIZE (thickness, nominal)	LOCATION	SPECIFICATION COMPLIANCE
☐ **AP™ FOIL-FACED POLYISOCYANURATE FOAM SHEATHING**	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.	☐ R-2.7/0.50"	☐ RSI-0.48/13 mm		ASTM C1289 Type 1 Class 1 ASTM Test Method C518 at 75ºF
		☐ R-3.4/0.625"	☐ RSI-0.62/16 mm		
		☐ R-4.4/0.75"	☐ RSI-0.77/19 mm		
		☐ R-6/1.00"	☐ RSI-1.06/25 mm		
		☐ R-9.3/1.50"	☐ RSI-1.63/38 mm		
		☐ R-13.0/2.00"	☐ RSI-2.21/51 mm		
		☐ R-16/2.50"	☐ RSI-2.79/64 mm		
		☐ R-19/3.00"	☐ RSI-3.36/76 mm		
		☐ R-22/3.50"	☐ RSI-3.94/89 mm		
		☐ R-26/4.00"	☐ RSI-4.52/102 mm		
		☐ R-28/4.50"	☐ RSI-5.09/114 mm		
☐ **CI MAX®**	High efficiency rigid foam sheathing designed for exposed interior applications. Composed of a uniform closed-cell polyisocyanurate foam core bonded on each side to glass-mat-reinforced 1.5 mil embossed aluminum facers with silver finish.	☐ R-2.7/ 0.50"	☐ RSI-0.48/13 mm		ASTM C1289 Type 1 Class 1 ICC- ESR-3398 ASTM Test Method C518 at 75ºF
		☐ R-4.5/0.77"	☐ RSI-0.79/20 mm		
		☐ R-6.0/1.00"	☐ RSI-1.06/25 mm		
		☐ R-9.3/1.50"	☐ RSI-1.63/38 mm		
		☐ R-10/1.65"	☐ RSI-1.81/42 mm		
		☐ R-13/2.00"	☐ RSI-2.21/51 mm		
		☐ R-16/2.50"	☐ RSI-2.79/64 mm		
		☐ R-19/3.00"	☐ RSI-3.36/76 mm		
		☐ R-22/3.50"	☐ RSI-3.94/89 mm		
		☐ R-26/4.00"	☐ RSI-4.52/102 mm		
☐ **CI MAX® WHITE**	High efficiency rigid foam sheathing designed for exposed interior applications. Composed of a uniform closed-cell polyisocyanurate foam core bonded on each side to glass-mat-reinforced 1.5 mil embossed aluminum facers with white finish on one side.	☐ R-2.7/ 0.50"	☐ RSI-0.48/13 mm		ASTM C1289 Type 1 Class 1 ICC- ESR-3398 ASTM Test Method C518 at 75ºF
		☐ R-4.5/0.77"	☐ RSI-0.79/20 mm		
		☐ R-6.0/1.00"	☐ RSI-1.06/25 mm		
		☐ R-9.3/1.50"	☐ RSI-1.63/38 mm		
		☐ R-10/1.65"	☐ RSI-1.81/42 mm		
		☐ R-13/2.00"	☐ RSI-2.21/51 mm		
		☐ R-16/2.50"	☐ RSI-2.79/64 mm		
		☐ R-19/3.00"	☐ RSI-3.36/76 mm		
		☐ R-22/3.50"	☐ RSI-3.94/89 mm		
		☐ R-26/4.00"	☐ RSI-4.52/102 mm		
☐ **CI MAX® SILVER**	High efficiency rigid foam sheathing designed for exposed interior applications. Composed of a uniform closed-cell polyisocyanurate foam core bonded on each side to glass-mat-reinforced 1.5 mil embossed aluminum facers with silver finish.	☐ R-2.7/ 0.50"	☐ RSI-0.48/13 mm		ASTM C1289 Type 1 Class 1 ICC- ESR-3398 ASTM Test Method C518 at 75ºF
		☐ R-4.5/0.77"	☐ RSI-0.79/20 mm		
		☐ R-6.0/1.00"	☐ RSI-1.06/25 mm		
		☐ R-9.3/1.50"	☐ RSI-1.63/38 mm		
		☐ R-10/1.65"	☐ RSI-1.81/42 mm		
		☐ R-13/2.00"	☐ RSI-2.21/51 mm		
		☐ R-16/2.50"	☐ RSI-2.79/64 mm		
		☐ R-19/3.00"	☐ RSI-3.36/76 mm		
		☐ R-22/3.50"	☐ RSI-3.94/89 mm		
		☐ R-26/4.00"	☐ RSI-4.52/102 mm		
☐ **NAILBOARD® INSULATION**	Rigid roof insulation composed of a polyisocyanurate foam core attached to 7/16" or 5/8" OSB on one side and fiber glass reinforced facer on the other.	☐ Includes 7/16" OSB:			ASTM C1289, Type V F.S. HH-I-1972/GEN HH-I-1972/2 ASTM Test Method C518 at 75ºF
		☐ R-21.1/4"			
		☐ R-18/3½"			
		☐ R-15/3"			
		☐ R-12/2½"			
		☐ R-9.2/2"			

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FOAM SHEATHING INSULATION PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	R-VALUE/SIZE (thickness, nominal) US FORMULA	RSI-VALUE/SIZE (thickness, nominal) CANADIAN FORMULA	LOCATION	SPECIFICATION COMPLIANCE
☐ **JM CORBOND III® SPF**	Closed-cell spray polyurethane foam (SPF) is dense, durable insulation that provides superior thermal and air isolation performance, while strengthening the structure of buildings.	☐ R-7.0/inch	2.40 m^2 k/w at 50 mm (Initial - ASTM C518); 2.31 m^2 k/w at 50 mm (Conditioned 90 days at 60°C - ASTM C518); 2.03 m^2 k/w at 50 mm (Long Term - CAN/ULC S770 LTTR)		AC377 NFPA 285 ASTM E2357 ABAA (evaluated and listed material and assembly) IBC Type I-V, IRC
☐ **JM CORBOND MCS™ SPF**	JM Corbond Multi-Climate Solution (MCS) SPF provides superior thermal, air and moisture isolation. Approved for application without an ignition barrier in attics and crawl spaces that are accessed only for service of utilities.	☐ R-6.8/inch	Not available in Canada		AC377 Appendix X NFPA 285 IBC Type I-V, IRC
☐ **JM CORBOND® OPEN-CELL SPRAY FOAM (JM CORBOND® OC SPF)**	Open-cell spray polyurethane foam is low-density, nonstructural insulation that offers a high yield while still providing good thermal and acoustical performance and good air isolation.	☐ R-3.6/inch	0.61 °K•m^2/W at 25 mm		AC377 IBC Type V-B, IRC
☐ **JM CORBOND® OPEN-CELL APPENDIX X SPRAY FOAM (JM CORBOND® OCX SPF)**	Open-cell Appendix X spray polyurethane foam is low-density, nonstructural insulation that offers a high yield while still providing good thermal and acoustical performance and good air isolation. Approved for application without an ignition barrier in attics and crawl spaces that are accessed only for service of utilities.	☐ R-3.7/inch	Not available in Canada		AC377 IBC Type V-B, IRC

Insulation Systems Submittal Form

OTHER BUILDING PRODUCTS

MATERIALS PROVIDED	PRODUCT DESCRIPTION	SIZE	LOCATION	SPECIFICATION COMPLIANCE
☐ **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.	☐ Perforated for 16" o.c. joists (48" x 11" channel) ☐ Perforated for 24" o.c. joists (48" x 22" channel)		

Guide Specifications for Johns Manville Fiber Glass Thermal and Acoustical Insulations

FIRE SAFETY
Johns Manville Fiber 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 fiber glass insulation has passed the ASTM E136 test and is therefore considered noncombustible by the major building codes.

When provided with a standard vapor retarder, the composite product cannot be classified as "noncombustible" as defined in most building codes. Vapor retarders (unless Class A rated) will burn and must not be left exposed. They must be covered with gypsum board or other code-approved materials and installed in compliance with all building codes. To prevent a fire, keep open flames and other sources of heat away from the facing.

Faced insulations listed as ASTM C665, Class A have achieved a flame spread rating of 25 or less, and a smoke developed rating of 50 or less per ASTM E84 test method. (See additional information in "Guide Specifications" section of this form.)

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 Insulation Quality Standards of the State of California and the Minnesota Thermal Insulation Standards.

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.

CERTIFIED RECYCLED CONTENT ™ SCS GLOBAL SERVICES

NORTH AMERICAN AVERAGE
30% POST-CONSUMER RECYCLED CONTENT
ACTUAL RECYCLED CONTENT WILL VARY

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

A. Insulation for [location: ceilings, walls, floors, etc.] shall be Johns Manville Formaldehyde-free™* fiber glass insulation [Unfaced, Kraft-Faced, MR® Faced, ComfortTherm,® Climate Pro,® JM Spider,® FSK-25 flame-resistant foil-faced, Foil-faced or Insul-SHIELD®] in roll, batt, board or loose-fill form, [thickness] thick, R-value** [specify].

*Strike "Formaldehyde-free™" if specifying Insul-SHIELD.
**2 ¾" 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, vapor 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 vapor penetration into the wall from the building interior. Check your local building codes for vapor retarder requirements.

D. Standard kraft and standard foil facings are combustible and must not be left exposed. Where exposed application is desirable and permitted by applicable codes, FSK-25 flame-resistant facing must be used.†

E. Insulation should not be installed over or within 3" (76 mm) 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 1" (25 mm) or more clearance from combustible materials. Some may require clearance from noncombustible materials (per ASTM E136) like unfaced fiber glass insulation. Equipment and appliance manufacturers' instructions and local building codes shall be consulted for specific insulation clearance requirements.

†Johns Manville Fiber 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.

Visit our website at **www.JM.com** or call **800-654-3103** | **Building Insulation Division** P.O. Box 5108 | Denver, CO 80217-5108

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