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# Submittal Form

Commercial Insulation Products

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Submitted to: \_\_\_\_\_

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

Submitted by: \_\_\_\_\_


Date: \_\_\_\_\_

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This Submittal Form is provided to assist you in specifying and selecting the proper ROXUL® Insulation product. Included are basic performance data and product descriptions. For further information and data updates contact your local ROXUL® representative or Technical Service.

ROXUL® products are mineral wool fiber insulations made from basalt rock and slag. This combination results in a non-combustible product with a melting point of approximately 2150°F (1177°C), which gives it excellent fire resistance properties. ROXUL® mineral wool is a water repellent yet vapor permeable material.

Product	Description	Thermal Resistance	Nominal Thickness	Location	Specification Standard	
<b>ROXUL AFB™</b> Acoustical Fire Batt	Designed for application in wall/floor systems where acoustical performance and fire resistance are the primary concerns.	R-4.3	1"		Complies with ASTM C665 Type 1 unfaced Class A, C553, MEA Approval 338-97-M, E136 non-combustible, UL 723(ASTM E84) Unfaced Flame Spread 0 Smoke Developed 0, FMVSS 302, ASTM E90, E413, C423, E1050, C795, C871, C518/177 at 75F mean. Acoustical Performance, ASTM C423, see accompanying data.	
		R-6.5	1.5"			
		R-8.6	2"			
		R-10.8	2.5"			
		R-12.9	3"			
		R-15.1	3.5"			
		R-17.2	4"			
		R-21.5	5"			
				<u>UL Design Numbers:</u> U305, U311, U317, U411, U412, U448, U465, V417, V418, V419		
<b>ROXUL RHT™</b> RHT 40 RHT 60 RHT 80           <b>RHT 100</b> <b>RHT 120</b>	Non-combustible boards that are lightweight, water repellent and designed for general commercial, OEM applications and high temperature applications where flexibility is required in a variety of thermal, acoustic and fire applications. <b>Facings available:</b> <u>RFF</u> Flame Spread 5 Smoke 0 Perm 0.02 <u>ASJ</u> Flame Spread 18 Smoke 7 Perm 0.02 <u>Black Mat</u>	R-4.2	1"		ASTM C612, RHT40 Type IVA, RHT 60,80,100,120 Type IVB, MEA 330-97-M, E136 non-combustible, UL 723(ASTM E84) Unfaced Flame Spread 0, Smoke Developed 0, ASTM C411, C518/177 at 75F mean. C356 @ 1200F, RHT 40 1.92%, RHT 60 1.64%, RHT 80 1.24%, RHT 100 0.59%, RHT 120 1.6%. C1104 RHT 40 0.03%, RHT 60 0.01%, RHT 80 0.04%, RHT 100 0.04%, RHT 120 0.01%. ASTM C665, C795, C871.	
		R-6.3	1.5"			
		R-8.4	2"			
		R-10.5	2.5"			
		R-12.6	3"			
		R-14.7	3.5"			
		R-16.8	4"			
		R-21.0	5"			
		R-25.2	6"			
		R-4.0	1"			
		R-6.0	1.5"			
		R-8.0	2"			
		R-10.0	2.5"			
		R-12.0	3"			
		R-14.0	3.5"			
		R-16.0	4"			
		R-20.0	5"			
R-24.0	6"					
<b>ROXUL®</b> <b>CurtainWall</b> RHT 40 RHT 60 RHT 80	Curtain Wall is non-combustible board that is lightweight, water repellent and designed for curtain wall applications where excellent thermal, acoustic and fire properties are required. <b>Facings available:</b> <u>RFF</u> Flame Spread 5 Smoke 0 Perm 0.02 <u>ASJ</u> Flame Spread 18 Smoke 7 Perm 0.02 <u>Black Mat</u>	R-4.2	1"		ASTM C612, RHT40 Type IVA, RHT 60,80 Type IVB, MEA 330-97-M, E136 non-combustible, UL 723(ASTM E84) Unfaced Flame Spread 0, Smoke Developed 0, ASTM C411, C518/177 at 75F mean. C356 @ 1200F, RHT 40 1.92%, RHT 60 1.64%, RHT 80 1.24%. C1104 RHT 40 0.03%, RHT 60 0.01%, RHT 80 0.04%. ASTM C665, C795, C871.	
		R-6.3	1.5"			
		R-8.4	2"			
		R-10.5	2.5"			
		R-12.6	3"			
		R-14.7	3.5"			
		R-16.8	4"			
		R-21.0	5"			
		R-25.2	6"			
				<u>UL Design Numbers:</u> RHT 80 RFF 2 Hr. Fire Rating Approved for numerous static and dynamic systems. For more information please contact the manufacturer		

Product	Description	Nominal Thickness	Location	Specification Standard
<b>ROXUL</b> 	Engineered and produced for use in commercial, industrial and residential buildings as fire stopping material, for applications such as: - perimeter gaps between concrete floor slabs and exterior wall systems - around conduit pipe and duct openings through walls and floor slabs - between fire walls and ceiling slabs <b>Facing available:</b> RFF Flame Spread 5 Smoke 0 Perm 0.02	1"		ASTM C612 Type IVA, MEA 339-97-M, E136 non-combustible, UL 723(ASTM E84) Unfaced Flame Spread 0, Smoke Developed 0, C1104 0.04%, ASTM C665, C795, C871, C303 4.5 lb/ft <sup>3</sup> . ASTM E119, 4.5hr, 2", 4" and 6" opening.  <b>UL Design numbers:</b> Please contact the manufacturer for more information on the numerous static and dynamic <b>FF, FW, HW</b> and <b>WW</b> system approvals.  <b>Curtain Wall 2 Hour UL Fire Rating</b> Approved for numerous static and dynamic systems. For more information please contact the manufacturer
		1.5"		
		2"		
		2.5"		
		3"		
		4"		
		5"		
		6"		

**Acoustical Performance  
ASTM C423  
Co-Efficients at Frequencies**

Product	Thickness	Hz						
		125	250	500	1000	2000	4000	NRC
<b>ROXUL AFB</b>	1.0"	0.14	0.25	0.65	0.90	1.01	1.01	0.70
	1.5"	0.18	0.44	0.94	1.04	1.02	1.03	0.85
	2.0"	0.28	0.60	1.09	1.09	1.05	1.07	0.95
	3.0"	0.52	0.96	1.18	1.07	1.05	1.05	1.05
	4.0"	0.86	1.11	1.20	1.07	1.08	1.07	1.10
<b>RHT40</b>	1.5"	0.15	0.47	0.98	1.06	1.02	1.02	0.90
	2.0"	0.26	0.68	1.14	1.13	1.06	1.07	1.00
	3.0"	0.62	1.03	1.20	1.10	1.08	1.10	1.00
	4.0"	1.07	1.01	1.07	1.06	1.07	1.06	1.05
<b>RHT60</b>	1.5"	0.19	0.55	1.03	1.06	1.02	1.01	0.90
	2.0"	0.26	0.71	1.14	1.09	1.04	1.03	1.00
	3.0"	0.65	0.94	1.13	1.07	1.06	1.04	1.05
	4.0"	0.92	1.04	1.07	1.07	1.07	1.08	1.05
<b>RHT 80</b>	1.5"	0.17	0.58	1.06	1.07	1.00	0.99	0.95
	2.0"	0.39	0.84	1.08	1.01	1.02	1.01	1.00
	3.0"	0.68	0.92	1.08	1.03	1.03	1.03	1.00
	4.0"	1.00	0.95	1.06	1.04	1.06	1.08	1.05
<b>RHT 100, 120</b>	1.0"	0.11	0.31	0.82	1.01	1.02	1.01	0.80
	1.5"	0.21	0.64	0.92	1.00	0.95	1.01	0.90
	2.0"	0.43	0.78	0.90	0.97	0.97	1.00	0.90
	3.0"	0.75	0.82	0.89	0.94	1.00	1.00	0.90



Product	Specification Compliance			
	ASTM C553	ASTM C612		ASTM C665
	Type VII	Type IVA	Type IVB	Type I
ROXUL AFB	+			+
ROXUL SAFE		+		
ROXUL RHT 40		+		
ROXUL RHT 60			+	
ROXUL RHT 80			+	
ROXUL RHT 100			+	
ROXUL RHT 120			+	
ROXUL CURTAINWALL RHT 40 RHT 60 RHT 80		+	+	