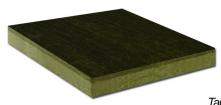


Technical Data Sheet

ProtecRSS-X2 (flat or tapered panels)







Available Flat or Tapered



BOARD INSULATION 15080* MINERAL BOARD INSULATION 07 21 13** ROOF INSULATION 07 22 00**

Tapered product slope: 1% (1/8"), 2% (1/4"), 4% (1/2") other slopes available upon request

Description:

ProtecRSS-X2, a water repellent yet vapor permeable roofing insulation, is a rigid, ROCKWOOL® mineral wool fibre board with a higher density top layer for durability and enhanced strength, formed as a monolithic structure, manufactured from basalt rock and steel slag, having a melting point of approximately 2150°F (1177°C), with the top face saturated with bitumen and lightly coated with a sanded surface. ProtecRSS-X2 is CFC and HCFC free and available flat, tapered, butt edge or shiplap.

Common Application:

ProtecRSS-X2, a dual-density stone wool insulation panel is intended for cold applied, torched or hot mopped modified bitumen and built-up roofing membrane systems in commercial and industrial roof applications. It is suitable for both new building and re-roofing applications.

	Comp	liance	and	Perf	orm	iance
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ASTM C726 FM Approvals 4470					
FM Approvals 4470	M Approvals 4470 NCC – (Noncombustible Core) Rated Roof Insulation				
Fire Performance:					
NFPA 276	Standard Method of Fire Tests for Determining the Heat Release	Class 1			
	Rate of Roofing Assemblies with Combustible Above-Deck				
	Roofing Components				
CAN4 S114	Test for Non-Combustibility	Non-Combustible			
CAN/ULC-S107-03	Fire Tests of Roof Coverings	Class A			
CAN/ULC-S126-06	Fire Spread Under Roof Deck Assemblies				
ASTM E 84 (UL 723)	Surface Burning Characteristics***	Flame Spread = 0			
		Smoke Developed = 0			
CAN/ULC S102	Surface Burning Characteristics***	Flame Spread = 0			
		Smoke Developed = 0			
UL 790 (ASTM E108)	Standard Test Methods for Fire Tests of Roof Coverings	Class A			
	See UL Roofing and Materials Directory for Assembly Details				
UL 263 (ASTM E119)	Fire Tests of Building Construction and Materials				
	See UL Fire Resistance Directory at the following link for assembly deta	UL Fire Resistance Directory at the following link for assembly details:			
	http://database.ul.com/cgi-bin/XYV/template/LISCANADA/1FRAME/index.html P004, P213, P214, P225, P228, P230, P237, P238, P242, P245, P250, P254, P259, P404, P409,				
	P501, P502, P504, P506, P508, P510, P512, P514, P701, P708, P710	, P711, P718, P729, P732,			
	P734, P735, P737, P740, P801, P810, P815, P828, P904, P909, P912	, P915.			

Dimensional Stability:

ASTM C 356	Linear Shrinkage 24 Hrs. @ 1200°F (650°C)	0.71 %
ASTM D 2126	Linear change 7 days @ 40°F (-40°C) ambient RH Linear change 7 days @ 200°F (93°C) ambient RH	0.1 % 0.1 %
	Linear change 7 days @ 158°F (70°C) 97% RH	0.0 %



Technical Data Sheet

ProtecRSS-X2 (flat or tapered panels)





Hail Performance:

FM 4470 Test Standard for Susceptibility to Hail Damage Class 1 – SH (Severe Hail)

FM 4473 Impact Resistance by Impacting with Freezer Ice Balls Class 4
UL 2218 Impact Resistance of Prepared Roof Covering Materials Class 4

Moisture Resistance:

ASTM C 1104 Water Vapor Sorption 0.15 %

ASTM E 96 Water Vapor Transmission, Desiccant Method 2330 ng/Pa.s.m² (41 Perm)

ASTM C 209 Water Absorption <1.0 %

 Thermal Resistance:
 Temperature
 R-value/inch
 RSI value/25.4 mm

 ASTM C 518 (C 177)
 25°F (-4°C)
 4.3 hr.ft².F/Btu
 0.74 m²K/W

 40°F (4°C)
 4.2 hr.ft².F/Btu
 0.72 m²K/W

75°F (24°C) 3.8 hr.ft².F/Btu 0.72 m²k/W 110°F (43°C) 3.6 hr.ft².F/Btu 0.68 m²k/W 0.64 m²k/W

Note that as testing temperatures decrease, the R-value increases.

Temperature = R-value

Corrosive Resistance:

ASTM C 665 Corrosiveness to Steel

ASTM C 795 **** Stainless Steel Stress Corrosion Specification as per Test

Methods C871 and C692: U.S. Nuclear Regulatory Commission, Reg. Guide #1.36: U.S. Military Specifications MIL-I-24244 (all

versions including B and C)

Non-corrosive Non-corrosive

Acoustical Performance:

ASTM C	423	CO-EFFICIENTS AT FREQUENCIES						
Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC	
2.0"	0.50	0.71	0.85	0.89	0.90	1.01	0.85	

Compressive Strength:

ASTM C 165 at 10% 20 psi (140 kPa) ASTM C 165 at 10% 11 psi (75 kPa) Point Load @ 5mm compression 30 psi (205 kPa) (top layer) at 25% 37 psi (250 kPa) (entire board) at 25% 15 psi (105 kPa) EN 12430

Density:

ASTM C 303 – Actual Top Layer 13.75 lbs/ft³ (220 kg/m³) Bottom Layer 10.0 lbs/ft³ (160 kg/m³)

Dimensions:

48" (width) x 48" (length)

1219 mm (width) x 1219 mm (length)

Thickness:

Product thickness is available in 2" to 6" with 1/2" increments

Do not expose **ProtecRSS-X2** by ModulR TS to weather during shipment, storage or installation. At completion of day's work, seal all exposed edges. It is not intended for use as a structural roof deck. To avoid damage from construction traffic and material transportation install adequate protective boardwalks over installed roofing materials to enable passage of people and products not limited to the roofing project.

*MASTER FORMAT 1995 EDITION **MASTER FORMAT 2004 EDITION *** all tests based on uncoated mineral wool **** "Provisions for lot testing may be required, consult manufacturer."

ModulR TS Inc. reserves the right to change the above specifications without prior notice.

1-800-908-9899 / www.modulrts.com / contact.us@modulrts.com

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