Product:	Roxul [®] Stonewool	P.D.S
Туре:	WIRED MATTRESS	RTW013
Name:	RockTech WM 160 (for use up to 750 ⁰ C)	Page 1 of 4

Description

Roxul RockTech WM 160 is a high quality flexible blanket mattress stitched to 25 mm (1 inch) Galvanized hexagonal wire mesh by means of a galvanized metal wire for usage on high temperature and fire retardant insulation applications. Stainless steel grade 304 25mm hexagonal wire mesh and stitching wire is also available for applications in corrosive environments or in very high temperatures.

Applications for Roxul RockTech WM 160 include thermal and acoustic insulation on large pipes, flanges, valves, boilers, vessels, tanks, ducts or wrapping large curved surfaces. Also due to the low leachable chloride content Roxul wired mattresses are particularly suitable for the insulation of stainless steel.

Delivery Schedule – see AIS price list.

Thickness (mm)	WM 160	Rolls per Pack	M2 per Roll
25	6000 x 1000	1	6
50	5000 x 1000	1	5
75	4000 x 1000	1	4
100	2000 x 1000	1	2

Other thicknesses and special sizes are available to order but may be subject to minimum quantity requirements.

Product Performance and Properties

Density:	>80 kg/m ³ being delivered density (nominal) according to ASTM C612-93.
Service Temperature:	Maximum continuous service temperature of 750°C

Maximum continuous service temperature of 750°C (1380°F).

Thermal Conductivity (declared):

Tested in accordance with DIN 52612

Mean Temp ^⁰ C	50	100	150	200	250	300	350
K value W/m. K	0.039	0.046	0.055	0.065	0.076	0.091	0.108

		REVISION: Original
		DATE OF ISSUE: Aug 2012
		CHKD: WC APPV: IRS

Product:	F	Roxul [®] Stonewool	P.D.S			
Туре:	V	RTW013				
Name:	RockTech W	M 160 (for use up to 750 ⁰ C	Page 2 of 4			
Corrosion Resistance: Chemical Neutrality:		Roxul RockTech WM 160 base m neutral and will neither cause nor				
Corrosion Resistance: Water Leachable Chlorides:		Roxul RockTech WM 160 base mineral wool has a very low content of water leachable chloride, so it can be safely used on austenitic stainless steel. Meets the requirements for use over stainless steel in accordance with ASTM C799 and of "AS-Quality" of AGI Q-135.				
Fire:		Roxul RockTech WM 160 wired n combustible when tested accordin standards e.g. ASTM E-136-82, D 1970, ISO 1182 and IMO A 799 (ng to international DIN 4102, BS476 Pt4-			
Moisture Resistance Water:		Roxul RockTech WM 160 flexible blanket base material is highly water repellent, non hygroscopic and non capillary. When tested to BS 2972 Section 12 Roxul Stonewool absorbs approximately >90% by volume of moisture (complete immersion test).				
Moisture Resis	tance Vapour Diffusion:	Water vapour diffusion resistance value means that water can pass condensing.	•			
Moisture Resistance: Absorption from the air:		Roxul Stonewool absorbs very little water from the air. Tests show at relative humidity of 90% for 30 days the hygroscopic water content is around .004 volume per cent. The water vapour absorption (vapor sorption) in accordance with ASTM C110 4/C 110 M is + 0.02% (vol).				
Moisture Resis	tance Capillarity:	Roxul RockTech WM 160 fibres and fibre coating repels water and prevents capillarity.				
Melting Point:		Melting point of Roxul Stonewool (1800°F).	fibre is over 1000°C			
			REVISION: Original			
	FRU	DUCT DATA SHEET	DATE OF ISSUE: Aug 201			

CHKD: WC APPV: IRS

Product:		Roxul	[®] Stonew	ool			P.D.S
Туре:		WIRED	MATTRE	SS			RTW013
Name:	Ro	ckTech WM 160) (for us	e up to	750 ⁰ C)		Page 3 of 4
Specific Heat	:		Il Stonewoo ee centigra		heat facto	or is 0.84 k	J/kg per
Calorific Valu	le:	matt	Roxul RockTech WM 160 wired mattress has a low organic matter content giving a low caloric value of around 600 kJ/kg.				
Biological Pro	operties:	and		rovides no	basis for	growth of	o nutrients fungi, moulds or vermin.
Acoustic Properties:		wher		according	g to ISO 3	54 and ap	material plied directly corption value
	Hz	125 250	500	1000	2000	4000	
	50mm 100mm	0.32 0.85 0.85 1.17	1.10 1.14	1.13 1.09	1.07 1.06	1.07 1.12	
Durability: Compatibility	<i>.</i> .	Roxul Stonewool has been proven in services for over years in all types of exposure and as such will gi effective protection for the lifetime of the equipment th insulate. Roxul Stonewool is compatible with all materials which it likely to come into contact in normal industrial and buildi applications.					
Environment	:	pro ser HC dep (VC	file in all vice life and FC's are ι	elements d energy e used in its ntial. The on Rate is	of man efficiency s manufa Total Vol in accord	ufacture, in of material cture. It ha atile Orgar ance with	tive ecologi recycling, us I. No CFC's as zero ozo nic Compoun

Product:	Roxul [®] Stonewool	P.D.S
Туре:	WIRED MATTRESS	RTW013
Name:	RockTech WM 160 (for use up to 750 ⁰ C)	Page 4 of 4

Health & Safety

PRODUCT

RockTech WM is NOT CLASSIFIED as HAZARDOUS according to NOHSC criteria as a consequence of the following events and conclusions about the health effects of long term occupation exposure to mineral wool insulation products.

- Over 50 years of extensive health research on Rockwool products in Europe has resulted in the scientific conclusion that there are no long-term health problems from using Rockwool.
- In March 1995 the UK Health and Safety Executive concluded that Rockwool should not be classified as a potential carcinogen.
- Under note Q of the National Occupational health and Safety Commission (NOHSC) publication "List of Designated Hazardous Substances" (NOHSC; 1005-1999) the classification of NON-CARCINOGENIC is to apply.
- Under the European Union Criteria set out in 67/548/EEC a classification of CARC, Cat O applies, i.e.; "Not classifiable for carcinogenicity."
- Under World Health Organisation (WHO) and its Monographs Programme of the International Agency for Research on Cancer (IARC) it has been concluded that, "Rock (stone) wool are now considered not classifiable as to carcinogenicity to humans (Group 3),

It is recommended that for the handling and installation of Roxul Rockwool that the internationally recognized Material Safety Data Sheet be followed.

	REVISION: Original		
DATA SHEET	DATE OF ISSUE: Aug 2012		
	CHKD: WC APPV: IRS		