



U SeaProtect Wired Mat Alu1

Wired Mats Aluminium faced – density from 36 to 86 kg/m³

ULTIMATE mineral wool provides a unique high-performance profile: it combines safety, comfort and ease of handling.



Effective fire protection

ULTIMATE provides effective fire resistance, but also very good performance in reaction to fire



Excellent thermal insulation

Excellent thermal insulation combined with unique efficiency



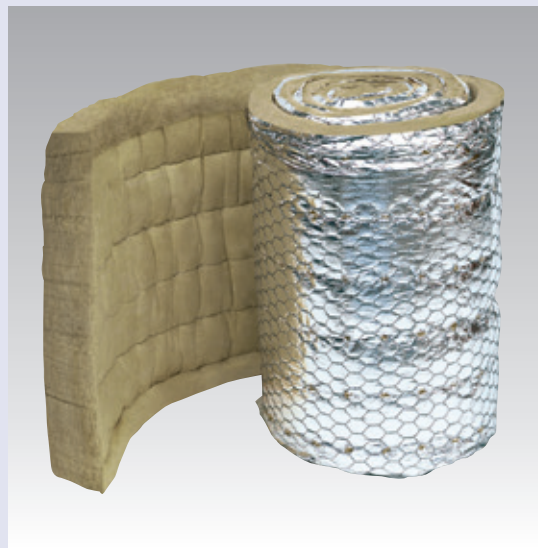
Optimal acoustic performance

Improved acoustic comfort due to its excellent sound absorption and sound insulation properties

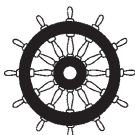


Light weight

Increase insulation - reduce weight
ULTIMATE combines high fire & thermal performance with very low weight



ISOVER-PDS-Marine-INT-ENG-U SeaProtect Wired Mat Alu1-2018-07



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Characteristic	Symbol	Unit	Quantities and measured values	Standard
Application fields	-	-	Thermal insulation, acoustic insulation and fire protection constructions in shipbuilding	-
Material	-	-	Mineral wool with quality mark RAL by the Gütegemeinschaft Mineralwolle e.V., unriskey regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to Regulation (EC) N°1272/2008	-
Thermal conductivity	T	[°C]	10 50 100 150 200 300 400	EN 12667
U SP WM 36 Alu1	$\lambda_{N,P}$	[W/(m·K)]	0.032 0.037 0.045 0.055 0.069 0.104 0.153	
U SP WM 48 Alu1	$\lambda_{N,P}$	[W/(m·K)]	0.032 0.036 0.044 0.053 0.063 0.087 0.122	
U SP WM 66 Alu1	$\lambda_{N,P}$	[W/(m·K)]	0.031 0.035 0.040 0.047 0.054 0.072 0.096	
U SP WM 76 Alu1	$\lambda_{N,P}$	[W/(m·K)]	0.031 0.035 0.040 0.047 0.054 0.072 0.096	
U SP WM 86 Alu1	$\lambda_{N,P}$	[W/(m·K)]	0.031 0.037 0.043 0.050 0.057 0.074 0.090	
Thermal behaviour	-	-	The thickness of the insulating layer has to be correctly dimensioned so that the faced side is exposed to a maximum of 100 °C From 150 °C on the binder starts to volatilise	AGI Q 132
Behaviour in fire	-	[°C]	Melting point according to DIN 4102, part 17: ≥ 1000 °C Non combustible according to IMO-Resolution Homologated for shipbuilding according to EC Type Examination Certificates Nr.: MED-B+D Certificate = visit our website	DIN 4102-17 IMO-Resolution MSC.307(88)- (FTP-Code 2010)
Specific thermal capacity	c	[kJ/(kg·K)]	~ 1.03	ISO 10456
Water vapour diffusion resistance factor	μ	-	~ 1.0	ISO 10456
Sound absorption value	α_w	-	U SeaProtect Wired Mat 66 Alu1 50 mm: 0.90	EN 11654
Chemical behaviour	-	-	Sulphide free	-
Facing	-	-	U SeaProtect Wired Mats 36 - 86 Alu1 are one-sided faced with a reinforced alu foil U SeaProtect Wired Mats are stitched on one side using galvanized wire on a galvanized wire mesh	-
Miscellaneous	-	-	ISOVER is certified according to DIN EN ISO 9001 and DIN EN ISO 14001	ISO 9001 ISO 14001 EN ISO 50001

Delivery form: Standard dimensions / packaging information*		
	Width w (mm)	Thickness d (mm)
U SeaProtect Wired Mat 36 Alu1	600 mm	50, 60, 80, 100 mm
U SeaProtect Wired Mat 48 Alu1	600 mm	50, 100 mm
U SeaProtect Wired Mat 66 Alu1	600 mm	30, 40, 50, 60, 70, 80, 90, 100 mm
U SeaProtect Wired Mat 76 Alu1	600 mm	30 mm
U SeaProtect Wired Mat 86 Alu1	600 mm	On request

* Dimensions on request, products with minimum order quantities are requested

www.isover-technical-insulation.com

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