



U SeaProtect Wired Mat Alu1

Wired Mats Aluminium faced – density from 36 to 66 kg/m³

U SeaProtect Wired Mat Alu1

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.



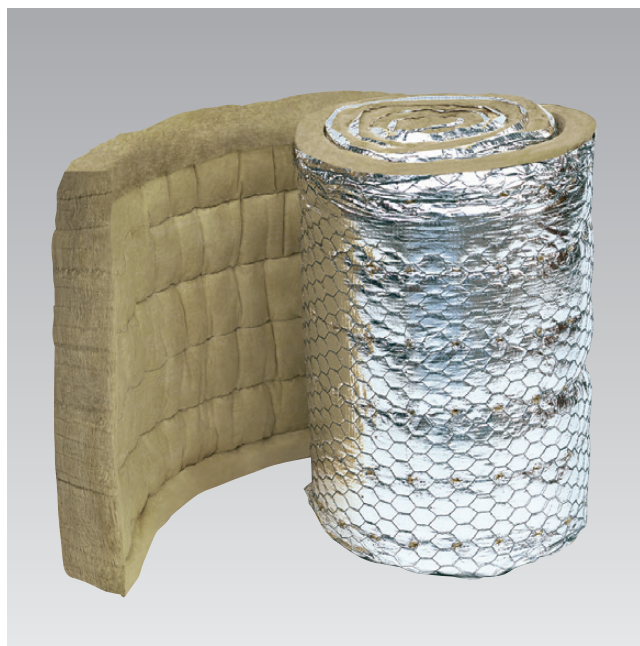
Optimal acoustic performance

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.





U SeaProtect Wired Mat Alu1

Wired Mats Aluminium faced

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., unrisky regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to guideline EU 97/69 Nota Q.							-
Thermal conductivities	T	[°C]	10	50	100	150	200	300	400	EN 12 667
U SeaProtect Wired Mat 36 Alu1	$\lambda_{N,P}$	[W/(m·K)]	0,032	0,037	0,045	0,055	0,069	0,104	0,153	
U SeaProtect Wired Mat 48 Alu1	$\lambda_{N,P}$	[W/(m·K)]	0,032	0,036	0,042	0,051	0,060	0,086	0,122	
U SeaProtect Wired Mat 66 Alu1	$\lambda_{N,P}$	[W/(m·K)]	0,031	0,035	0,040	0,047	0,054	0,072	0,096	
Behaviour in fire	-	-	Melting point according to DIN 4102, part 17: ≥ 1000 °C. Non combustible according to IMO-Resolution MSC.61(67)-(FTPCode), IMO MSC/Circ. 1120. Homologated for shipbuilding according to EC Type Examination Certificate Nr.: 114.540							DIN 4102 IMO
Thermal behaviour	-	[°C]	Exposure to temperature until 650 °C (depends on density) is possible on the unfaced side, but 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
Specific thermal capacity	c	[kJ/(kg·K)]	0,84							-
Water vapour diffusion resistance factor	μ	-	~ 1							EN 12086
Air flow resistivity	σ	[KPa·s/m²]	U SeaProtect Wired Mat 36: 30 U SeaProtect Wired Mat 66: 60							DIN EN 29053
Sound absorption value	α_w	-	U SeaProtect Wired Mat Alu1 66 50 mm: 0,90							
Chemical behaviour	-	-	Sulphide free.							-
Facing	-	-	U SeaProtect Wired Mats 36 – 66 Alu1 are one-sided faced with a reinforced alu foil							-
Miscellaneous	-	-	ISOVER is certified according to DIN EN ISO 9001 and DIN EN ISO 14001.							DIN EN ISO 9001 DIN EN ISO 14001

Delivery form		
	Width	Thickness
U SeaProtect Wired Mat Alu1 36	600 mm	50, 60, 80, 100 mm
U SeaProtect Wired Mat Alu1 48	600 mm	50, 100 mm
U SeaProtect Wired Mat Alu1 66	600 mm	30, 40, 50, 60, 70, 80, 90, 100 mm

Further dimensions on request

www.isover-technical-insulation.com

The technical information corresponds to our present state of knowledge and experience at the date of printing (see imprint). But no legal guarantee can be given, unless it has been explicitly agreed. The state of experience and knowledge is developing continuously. Please see to it that you always use the latest edition of this information. The described product applications do not take special circumstances in consideration. Please verify whether our products are appropriate for the concrete application. For further information please contact our Isover sales offices. We deliver only according to our terms of trade and terms of delivery.

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