U SeaProtect Slab G420

Slabs glass cloth faced 420 g/m² – density from 20 to 90 kg/m³

U SeaProtect Slab G420

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 SAINT-GOBAIN

Version : ISOVER-PDS-Marine-INT-ENG-U SeaProtect Slab G420-2015-09-22

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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., 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 12667
U SeaProtect Slab 24	$\lambda_{N,P}$	[W/(m•K)]	0,034	0,040	0,049	0,062	0,080	0,124	-	
U SeaProtect Slab 36	$\lambda_{N,P}$	[W/(m•K)]	0,032	0,037	0,045	0,055	0,069	0,104	0,153	
U SeaProtect Slab 46	$\lambda_{N,P}$	[W/(m•K)]	0,032	0,036	0,042	0,051	0,060	0,086	0,122	
U SeaProtect Slab 56	$\lambda_{N,P}$	[W/(m•K)]	0,031	0,036	0,041	0,049	0,057	0,078	0,104	
U SeaProtect Slab 66	$\lambda_{N,P}$	[W/(m•K)]	0,031	0,035	0,040	0,047	0,054	0,072	0,096	
U SeaProtect Slab 76	$\lambda_{N,P}$	[W/(m•K)]	0,031	0,035	0,040	0,047	0,054	0,072	0,096	
U SeaProtect Slab 86	$\lambda_{N,P}$	[W/(m•K)]	0,031	0,035	0,040	0,046	0,054	0,070	0,091	
U SeaProtect Slab 90	$\lambda_{N,P}$	[W/(m•K)]	0,031	0,035	0,040	0,046	0,054	0,070	0,091	
Thermal behaviour	-	[°C]	≤ 650 by pure thermal stress (U SeaProtect Slab 40 – 90) ≤ 550 by pure thermal stress (U SeaProtect Slab 24 – 40) U SeaProtect Slab G420: 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.							EN 14706
Behaviour in fire	-	-	Melting point according to DIN 4102, part 17: ≥ 1000 °C. Non combustible according to IMO-Resolution MSC.61(67)-(FTP- Code), IMO MSC/Circ. 1120. Homologated for shipbuilding according to EC Type Examination Certificate Nr.: 114.480							DIN 4102 IMO
Thermal coefficient of expansion	⊏	1/K	No change in dimensions within the application field.							-
Water vapour diffusion resistance factor	μ	-	– 1,0							EN 12086
Specific thermal capacity	c	[kJ/(kg•K)]	– 1,0							-
Dynamic stiffness	s'	M•N/m³	U SeaProtect Slab 90 ≤ 7							-
Air flow resistivity	σ	[KPa• s/m²]	U SeaProtect Slab 24: 15 U SeaProtect Slab 36: 30 U SeaProtect Slab 56: 50 U SeaProtect Slab 66: 60 U SeaProtect Slab 76: 80 U SeaProtect Slab 86: 90							EN 29053
Sound absorption value	α_w	-	U SeaProtect Slab 24 G420 50 mm: 0,90 U SeaProtect Slab 36 G420 70 mm: 0,95 U SeaProtect Slab 56 G420 70 mm: 0,95 U SeaProtect Slab 66 G420 50 mm: 0,90 U SeaProtect Slab 76 G420 25 mm: 0,80 U SeaProtect Slab 86 G420 50 mm: 0,90							-
Chemical behaviour	-	-	Sulphide free. Low chloride content on demand. Water repellent content on demand.							AGI Q 132
Facing	-	-	one-sided faced with glass fiber cloth with a gram weight of 420 g/m²							-
Instruction for transformation	-	-	Can be cut and punched. Due to the differentiation of density optimal delivery forms are possible for each application field.							-
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	Length	Thickness
Slab 24-36	625 mm	1.200 mm	30, 40, 50, 60, 70, 80, 100 mm
Slab 46-66	625 mm	1.200 mm	30, 40, 50, 60, 70, 80 mm
Slab 76-86	625 mm	1.200 mm	20, 25, 40, 50 mm

* on some products, minimum order quantities are requested ** further dimensions on request

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