

U SeaProtect Slab G220

Slabs glass cloth faced 220g/m² - density from 20 to 90kg/m³

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



FIRE RESISTANCE.

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



THERMAL INSULATION.

Excellent thermal insulation combined with unique efficiency.



SOUND ABSORPTION.

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



LIGHTWEIGHT.

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

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CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES							STANDARD
Thermal conductivity	T	[°C]	10	50	100	150	200	300	400	EN 12667
U SeaProtect Slab 24	λ	[W/(m•K)]	0.034	0.040	0.049	0.062	0.080	0.124	-	
U SeaProtect Slab 36			0.032	0.037	0.045	0.055	0.069	0.104	0.153	
U SeaProtect Slab 46				0.036	0.042	0.051	0.060	0.086	0.122	
U SeaProtect Slab 56			0.031		0.041	0.049	0.057	0.078	0.104	
U SeaProtect Slab 66				0.035	0.040	0.047	0.054	0.072	0.096	
U SeaProtect Slab 76						0.046		0.070	0.091	
U SeaProtect Slab 86										
U SeaProtect Slab 90										
Thermal behaviour	T	[°C]	≤ 650 by pure thermal stress (U SeaProtect Slab 40 – 90) ≤ 550 by pure thermal stress (U SeaProtect Slab 24 – 40) U SeaProtect Slab G220: 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

CHARACTERISTIC	SYMBOL	UNIT	THICKNESS	VALUES	STANDARD
Acoustic absorption value	α_w	-	U SeaProtect Slab 24 G220 50 mm	1.00	DIN EN 29053
			U SeaProtect Slab 36 G220 70 mm		
			U SeaProtect Slab 56 G220 70 mm		
			U SeaProtect Slab 66 G220 30 mm	0.80	
			U SeaProtect Slab 66 G220 50 mm	1.00	
			U SeaProtect Slab 76 G220 25 mm	0.75	
			U SeaProtect Slab 86 G220 50 mm	0.95	

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES	VALUES	STANDARD
Resistivity to air flow	σ	[KPa.s/m²]	U SeaProtect Slab 24	15	DIN EN 29053
			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	

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CHARACTERISTIC	SYM-BOL	UNIT	QUANTITIES AND DECLARED VALUES	STANDARD
Specific thermal capacity	c	kJ/(kg·K)	1.00	ISO 10456
Fire behaviour	-	-	Melting point in accordance with DIN 4102, part 17: $\leq 1000^{\circ}\text{C}$. Non-combustible according to IMO-Resolution MSC.61 (67) - (FTPCode), IMO MSC / Circ. 1120. Approved for shipbuilding in accordance with EC Type Examination Certificate N°: 114.480	DIN 4102 IMO
Chemical behaviour	-	-	Sulphide free. Low chloride content on demand. Water repellent content on demand.	AGI Q 132
Application field	-	-	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 guideline EU 97/69 Nota Q.	-
Facing	-	-	One-sided faced with glass fiber cloth with a gram weight of 220 g/m ² .	-
Water vapour diffusion resistance factor	μ	-	- 1.00	EN 12086
Thermal coefficient of expansion	α	1/K	No change in dimensions within the application field.	-
Dynamic Stiffness	s'	M·N/m ³	U SeaProtect Slab 90: ≤ 7	-
Instructions for transformation	-	-	It can be cut and perforated. Due to the different densities there are different formats depending on the field of application.	-
Quality management	-	-	ISOVER is certified according to DIN EN ISO 9001 and DIN EN ISO 14001.	DIN EN ISO 9001 DIN EN ISO 14001

DELIVERY FORM: STANDARD DIMENSIONS / PACKAGING INFORMATION*					
Products	Thickness d (mm)	Length l (m)	Width b (m)	m ² /pack	m ² /pallet
U SeaProtect Slab 24 G220	50	1.20	0.62	7.50	120.00
U SeaProtect Slab 46 G220	30	1.20	0.62	9.75	117.00
U SeaProtect Slab 36 G220	60	1.20	0.62	4.50	54.00
U SeaProtect Slab 36 G220	70	1.20	0.62	3.75	45.00
U SeaProtect Slab 50 G220	60	1.20	0.62	3.75	60.00
U SeaProtect Slab 56 G220	50	1.20	0.62	6.00	72.00
U SeaProtect Slab 56 G220	60	1.20	0.62	3.75	60.00
U SeaProtect Slab 56 G220	70	1.20	0.62	3.00	48.00
U SeaProtect Slab 66 G220	30	1.20	0.62	9.75	117.00
U SeaProtect Slab 66 G220	50	1.20	0.62	6.00	72.00
U SeaProtect Slab 66 G220	70	1.20	0.62	3.00	48.00
U SeaProtect Slab 76 G220	20	1.20	0.62	15.00	180.00
U SeaProtect Slab 76 G220	25	1.20	0.62	12.00	144.00
U SeaProtect Slab 86 G220	50	1.20	0.62	6.00	72.00

* On some products, a minimum order quantity is required. Other dimensions on request.



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This data sheet was completed on the date indicated on the right-hand side and was done with ISOVER's knowledge and experience at that time. However, it does not offer any legal guarantee, unless it has been expressly agreed. Bearing in mind that our knowledge and developments of building solutions and products are continuously evolving, ensure that when you use this data sheet, it is the latest version. The description of the product applications does not take into account the special circumstances that may arise for a specific case. Please check that this product is the appropriate one for the application you are considering. For more detailed information, contact our network of ISOVER branches.

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