

U SeaProtect Slab Alu1

Aluminium clad panel - density from 20 to 120 kg/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.

U SeaProtect Slab Alu1



CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES							STANDARD
Thermal conductivity	T	[°C]	10	50	100	150	200	300	400	DIN 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										
U SeaProtect Slab 100										
Thermal behaviour	T	[°C]	≤ 650 due to pure heat stress (U SeaProtect Slab 40 - 120) ≤ 550 due to pure heat stress (U SeaProtect Slab 24 - 40) U SeaProtect Slab: insulation thickness must be correctly dimensioned so that the cladding side does not exceed 100°C. From 150°C the size begins to volatilize.							AGI Q 132

CHARACTERISTIC	SYMBOL	UNIT	THICKNESS	VALUES	STANDARD
Acoustic absorption value	α_w	-	U SeaProtect Slab 24 Alu1 50 mm	0.70	DIN EN 29053
			U SeaProtect Slab 36 Alu1 70 mm	0.85	
			U SeaProtect Slab 56 Alu1 30 mm	0.80	
			U SeaProtect Slab 56 Alu1 70 mm	0.85	
			U SeaProtect Slab 66 Alu1 30 mm	0.80	
			U SeaProtect Slab 66 Alu1 50 mm	0.90	
			U SeaProtect Slab 76 Alu1 20 mm	0.70	
			U SeaProtect Slab 76 Alu1 25 mm	0.80	
			U SeaProtect Slab 86 Alu1 50 mm	0.90	

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	
			U SeaProtect Slab 90	100	

U SeaProtect Slab Alu1



CHARACTERISTIC	SYM-BOL	UNIT	QUANTITIES AND DECLARED VALUES	STANDARD
Specific thermal capacity	c	kJ/(kg·K)	1.00	ISO 10456
Reaction to 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.: 114.483.	DIN 4102 IMO
Chemical behaviour	-	-	Sulphide free. Low chloride content on demand. Water repellent content on demand.	-
Application field	-	-	Thermal insulation, acoustic insulation and fire protection constructions in shipbuilding.	-
Material	-	-	Mineral wool with quality marks EUCEB and RAL by the Gütegemeinschaft Mineralwolle e. V., unrisky regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to regulation EC No 1272/2008 Note Q.	-
Facing	-	-	One-sided faced with reinforced aluminium foil.	-
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 U SeaProtect Slab 100: ≤ 8	-
Instructions for transformation	-	-	Can be cut and punched. Due to the differentiation of density optimal delivery forms are possible for each application field.	-
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 Alu1	50	1.20	0.60	7.20	115.20
U SeaProtect Slab 36 Alu1	60	1.20	0.60	4.32	51.84
U SeaProtect Slab 36 Alu1	70	1.20	0.60	3.60	43.20
U SeaProtect Slab 46 Alu1	30	1.20	0.60	9.36	112.32
U SeaProtect Slab 50 Alu1	60	1.20	0.60	3.60	57.60
U SeaProtect Slab 56 Alu1	50	1.20	0.60	5.76	69.12
U SeaProtect Slab 56 Alu1	60	1.20	0.60	3.60	57.60
U SeaProtect Slab 56 Alu1	70	1.20	0.60	2.88	46.08
U SeaProtect Slab 66 Alu1	30	1.20	0.60	9.36	112.32
U SeaProtect Slab 66 Alu1	50	1.20	0.60	5.76	622.08
U SeaProtect Slab 66 Alu1	70	1.20	0.60	2.88	414.72
U SeaProtect Slab 76 Alu1	20	1.20	0.60	14.40	172.80
U SeaProtect Slab 76 Alu1	25	1.20	0.60	11.52	138.24
U SeaProtect Slab 86 Alu1	50	1.20	0.60	5.76	483.84

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



U SeaProtect Slab Alu1



www.isover.es

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.

SAINT-GOBAIN ISOVER IBÉRICA, S.L. • C/ Príncipe de Vergara, 132 • 28002 Madrid • Spain

SEP-2024

