

U SeaProtect Slab

Slabs unfaced - density from 20 to 100 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 insulation

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 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 conductivity	T	[°C]	10	50	100	150	200	300	400	
USP Slab 24	$\lambda_{N,P}$	[W/(m·K)]	0.034	0.040	0.049	0.062	0.080	0.124	-	
USP Slab 36	$\lambda_{N.P}$	[W/(m·K)]	0.032	0.037	0.045	0.055	0.069	0.104	0.153	
USP Slab 46 + 48	$\lambda_{N.P}$	[W/(m·K)]	0.032	0.036	0.042	0.051	0.060	0.086	0.122	EN 14706
USP Slab 56	$\lambda_{N,P}$	[W/(m·K)]	0.031	0.036	0.041	0.049	0.057	0.078	0.104	
USP Slab 66 + 76	$\lambda_{N,P}$	[W/(m·K)]	0.031	0.035	0.040	0.047	0.054	0.072	0.096	
USP Slab 86 + 90 + 100	$\lambda_{N,P}$	[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 - 100) ≤ 600 by pure thermal stress (U SeaProtect Slab 24 - 40) U SeaProtect Slab: 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 MSC.61(67)-(FTP-Code). IMO MSC/Circ. 1120 Homologated for shipbuilding according to EC Type Examination Certificate Nr.: 114.477 U SeaProtect Slab 90: certified construction for A 60 (floating floor) 100.185; top-layer only according to static calculation						DIN 4102 IMO	
Thermal coefficient of expansion	α	[1/K]	No change in dimensions within the application field					-		
Water vapour diffusion resistance factor	μ	-	- 1.0					EN 12086		
Specific thermal capacity	С	[kJ/(kg•K)]	~ 1.0				-			
Dynamic stiffness	s'	[M•N/m³]	USP Slab 9	0: ≤ 7	USP S	Slab 100: ≤ 8				-
Air flow resistivity	σ	[KPa• s/m²]	USP Slab 20 USP Slab 30 USP Slab 50	6: 30	USP S	Slab 66: 60 Slab 76: 80 Slab 86: 90		USP Slab 90: 1	LOO	DIN EN 29053
Sound absorption value	a_{w}	-	USP Slab 3 USP Slab 4	4 50 mm: 1.00 6 70 mm: 1.00 8 100 mm: 1.0 6 30 mm: 0.80	USP S	Slab 56 70 mr Slab 66 30 mr Slab 66 50 mr Slab 76 25 mr	n: 0.85 n: 1.00	USP Slab 76 2 USP Slab 86 5 USP Slab 90 5	0 mm: 0.95	DIN EN 29053
Chemical behaviour	-	-	Sulphide fro	ее	Low dema	chloride conte nd	ent on	Water repeller on demand	nt content	-
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: Standard dimensions / packaging information*							
	Width [mm]	Length [mm]	Thickness [mm]				
Slab 24-36	600	1.200	30, 40, 50, 60, 70, 80, 100				
Slab 46-66	600	1.200	30, 40, 50, 60, 70, 80				
Slab 76-86	600	1.200	20, 25, 40, 50				
Slab 90-100	600	1.200	30, 40, 50, 60				

^{*} On some products minimum order quantities are requested

www.isover-technical-insulation.com

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^{**} Furter dimensions on request