



# U SeaProtect Slab G220

**Slabs glass cloth faced 220 g/m<sup>2</sup> - density from 20 to 90 kg/m<sup>3</sup>**

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



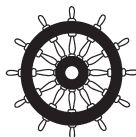
## Sound insulation

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



# U SeaProtect Slab G220



Slabs glass cloth faced 220 g/m<sup>2</sup> -  
density from 20 to 90 kg/m<sup>3</sup>

Characteristic	Symbol	Unit	Quantities and measured values							Standard
<b>Application fields</b>	-	-	Thermal insulation, acoustic insulation and fire protection constructions in shipbuilding							-
<b>Material</b>	-	-	Mineral wool with quality mark RAL by the Gütegemeinschaft Mineralwolle e.V., unrisksy regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to guideline EU 97/69 Nota Q							-
<b>Thermal conductivity</b>	T	[°C]	10	50	100	150	200	300	400	EN 14706
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	$\lambda_{N,P}$	[W/(m·K)]	0.032	0.036	0.042	0.051	0.060	0.086	0.122	
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	$\lambda_{N,P}$	[W/(m·K)]	0.031	0.035	0.040	0.046	0.054	0.070	0.091	
<b>Thermal behaviour</b>	-	[°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							EN 14706
<b>Behaviour in fire</b>	-	[°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.: 114.480							DIN 4102 IMO
<b>Thermal coefficient of expansion</b>	$\alpha$	[1/K]	No change in dimensions within the application field							-
<b>Water vapour diffusion resistance factor</b>	$\mu$	-	- 1.0							EN 12086
<b>Specific thermal capacity</b>	c	[kJ/(kg·K)]	- 1.0							-
<b>Dynamic stiffness</b>	s'	[M·N/m <sup>3</sup> ]	USP Slab 90: ≤ 7							-
<b>Air flow resistivity</b>	$\sigma$	[KPa· s/m <sup>2</sup> ]	USP Slab 24: 15 USP Slab 36: 30		USP Slab 56: 50 USP Slab 66: 60		USP Slab 76: 80 USP Slab 86: 90			DIN EN 29053
<b>Sound absorption value</b>	$\alpha_w$	-	USP Slab 24 50 mm: 1.00 USP Slab 36 70 mm: 1.00 USP Slab 56 70 mm: 1.00		USP Slab 66 30 mm: 0.80 USP Slab 66 50 mm: 1.00 USP Slab 76 25 mm: 0.75		USP Slab 86 50 mm: 0.95			DIN EN 29053
<b>Chemical behaviour</b>	-	-	Sulphide free		Low chloride content on demand		Water repellent content on demand			AGI Q 132
<b>Facing</b>	-	-	One-sided faced with glass fiber cloth with a gram weight of 220 g/m <sup>2</sup>							-
<b>Instruction for transformation</b>	-	-	Can be cut and punched		Due to the differentiation of density optimal delivery forms are possible for each application field					-
<b>Miscellaneous</b>	-	-	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]
<b>Slab 24-36</b>	625	1.200	30, 40, 50, 60, 70, 80, 100
<b>Slab 46-66</b>	625	1.200	30, 40, 50, 60, 70, 80
<b>Slab 76-86</b>	625	1.200	20, 25, 40, 50
<b>Slab 90</b>	625	1.200	30, 40, 50, 60

\* On some products minimum order quantities are requested

\*\* Further dimensions on request

[www.isover-technical-insulation.com](http://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.

SAINT-GOBAIN ISOVER · "Les Miroirs" · 18, avenue d'Alsace · 92400 Courbevoie · France

**ISOVER**  
SAINT-GOBAIN