



# U SeaProtect Roll

Rolls unfaced – density from 13 to 36 kg/m<sup>3</sup>

## U SeaProtect Roll

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.



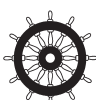
### Optimal acoustic performance

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



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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 12 667
U SeaProtect Roll 13	$\lambda_{N,P}$	[W/(m·K)]	0,039	0,047	0,063	0,080	0,108	-	-	
U SeaProtect Roll 24	$\lambda_{N,P}$	[W/(m·K)]	0,034	0,040	0,049	0,062	0,080	0,124	-	
U SeaProtect Roll 36	$\lambda_{N,P}$	[W/(m·K)]	0,032	0,037	0,045	0,055	0,069	0,104	0,153	
Behaviour in fire	-	-	Melting point according to DIN 4102, part 17: $\geq 1000$ °C. Non combustible according to IMO-Resolution MSC.61(67)-(FTPCode), IMO MSC/Circ. 1120. Homologated for shipbuilding according to EC Type Examination Certificate Nr.: 114.478							DIN 4102 IMO
Thermal behaviour	-	[°C]	Exposure to temperature until 400 °C (depends on density) is possible. From 150 °C on the binder starts to volatilise.							AGI Q 132
Specific thermal capacity	c	[kJ/(kg·K)]	0,84							-
Water vapour diffusion resistance factor	$\mu$	-	~ 1							EN 12086
Air flow resistivity	$\sigma$	[KPa·s/m <sup>2</sup> ]	U SeaProtect Roll 13: $\geq 5$ U SeaProtect Roll 24: 15 U SeaProtect Roll 36: 30							DIN EN 29053
Sound absorption value	$\alpha_w$	-	U SeaProtect Roll 24 50 mm: 1,00 U SeaProtect Roll 24 100 mm: 1,00 U SeaProtect Roll 36 70 mm: 1,00							DIN EN 29053
Chemical behaviour	-	-	Sulphide free.							-
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	Thickness
U SeaProtect Roll 13	1.200 mm	50, 60, 80, 100, 120 mm
U SeaProtect Roll 24	1.200 mm	30, 40, 50, 60, 80, 100, 120 mm
U SeaProtect Roll 36	1.200 mm	70 mm

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

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

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