



# U SeaProtect Roll

**Rolls unfaced – density from 13 to 56 kg/m<sup>3</sup>**

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



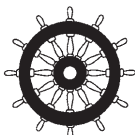
## Optimal acoustic performance

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
<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., unrisky regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to Regulation (EC) N°1272/2008							-
<b>Thermal conductivity</b>	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	
U SeaProtect Roll 50	$\lambda_{N,P}$	[W/(m·K)]	0.031	0.036	0.042	0.050	0.059	0.080	0.109	
U SeaProtect Roll 56	$\lambda_{N,P}$	[W/(m·K)]	0.031	0.036	0.041	0.049	0.057	0.078	0.104	
<b>Thermal behaviour</b>	-	[°C]	Exposure to temperature until 400 °C (depends on density) is possible From 150 °C on the binder starts to volatilise							AGI Q 132
<b>Behaviour in fire</b>	-	-	Melting point according to DIN 4102, part 17: $\geq 1000$ °C Non combustible according to IMO-Resolution Homologated for shipbuilding according to EC Type Examination Certificates Nr.: MED-B+D Certificate = visit our website							DIN 4102-17 IMO-Resolution MSC.307(88)- (FTP-Code 2010)
<b>Specific thermal capacity</b>	c	[kJ/(kg·K)]	~ 1.03							ISO 10456
<b>Water vapour diffusion resistance factor</b>	$\mu$	-	~ 1.0							ISO 10456
<b>Air flow resistivity</b>	$\sigma$	[KPa·s/m <sup>2</sup> ]	U SeaProtect Roll 13: $\geq 5$ U SeaProtect Roll 24: 15			U SeaProtect Roll 36: 30 U SeaProtect Roll 56: 50				DIN EN 29053
<b>Sound absorption value</b>	$\alpha_w$	-	U SeaProtect Roll 24 50 / 100 mm:			1,00				-
			U SeaProtect Roll 36 70 mm:			1,00				
			U SeaProtect Roll 50 60 mm:			1,00				
			U SeaProtect Roll 56 50 / 60 mm:			1,00				
<b>Chemical behaviour</b>	-	-	Sulphide free							-
<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 EN ISO 50001

Delivery form: Standard dimensions / packaging information*					
	U SeaProtect Roll 13	U SeaProtect Roll 24	U SeaProtect Roll 36	U SeaProtect Roll 50	U SeaProtect Roll 56
<b>Width (mm)</b>	1200	1200	1200	1200	1200
<b>Thickness (mm)</b>	50, 60, 80, 100, 120	30, 40, 50, 60, 80, 100, 120	70	60	30, 50, 60

\* all dimensions require minimum order quantities / other dimensions on request

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

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