



## U SeaProtect Roll Alu1

### Rolls aluminium faced - 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.



#### **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 Roll Alu1



CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES							STANDARD
Thermal conductivity	T	[°C]	10	50	100	150	200	300	400	EN 12667
U SeaProtect Roll 13	λ	[W/(m•K)]	0.039	0.047	0.063	0.080	0.108	-	-	
U SeaProtect Roll 24			0.034	0.040	0.049	0.062	0.080	0.124	-	
U SeaProtect Roll 36			0.032	0.037	0.045	0.055	0.069	0.104	0,153	
Thermal behaviour	T	[°C]	Exposure to temperature up to 400 °C (depends on density) is possible on the unfaced side, but 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

CHARACTERISTIC	SYMBOL	UNIT	THICKNESS	VALUES	STANDARD
Acoustic absorption value	α <sub>w</sub>	-	U SeaProtect Roll 13	≥5	-
			U SeaProtect Roll 24	15	
			U SeaProtect Roll 36	30	

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES	VALUES	STANDARD
Resistivity to air flow	σ	[KPa.s/m²]	U SeaProtect Roll 13	≥5	DIN EN 29053
			U SeaProtect Roll 24	15	
			U SeaProtect Roll 36	30	

CHARACTERISTIC	SYM-BOL	UNIT	QUANTITIES AND DECLARED VALUES	STANDARD
Specific thermal capacity	c	kJ/(kg•K)	0.84	ISO 10456
Reaction to fire	-	-	Melting point according to DIN 4102, part 17: ≥ 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.: 114.479.	DIN 4102 IMO
Chemical behaviour	-	-	Sulphide free.	-
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	-	-	U SeaProtect Rolls Alu1 13 - 36 are one-sided faced with reinforced aluminum foil.	-
Water vapour diffusion resistance factor	μ	-	- 1.00	EN 12086
Quality management	-	-	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*					
Products	Thickness d (mm)	Length l (m)	Width b (m)	m²/pack	m²/pallet
U SeaProtec Roll 24 Alu1	50	14.00	1.20	16.80	201.60
U SeaProtec Roll 24 Alu1	100	7.00	1.20	8.40	100.80
U SeaProtec Roll 36 Alu1	60	6.50	1.20	7.80	93.60
U SeaProtec Roll 36 Alu1	70	5.50	1.20	6.60	79.20
U SeaProtec Roll 46 Alu1	30	7.00	1.20	8.40	151.20
U SeaProtec Roll 50 Alu1	60	3.20	1.20	3.84	69.12
U SeaProtec Roll 56 Alu1	50	3.80	1.20	4.56	82.08

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

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### [www.isover.es](http://www.isover.es)

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