

ULTIMATE U SeaProtect range



New product name structure:

Find your U SeaProtect product quickly and in a simple way.

ULTIMATE	Product range	Product Form	Density (kg/m³)	Facing	Thickness (mm)
U	SeaProtect	Roll	24	→ unfaced	20 mm
			36	→ Aluminium	25 mm
		Slab	56	→ Glass cloth (black)	30 mm
			76	→ Glass cloth (white)	40 mm
		Wired Mat	86	→ Glass cloth (white)	50 mm
			90	→ B Facing ¹⁾ (Alu outside)	70 mm
			...	→ B Facing ¹⁾ (Glass cloth outside)	100 mm

Fire protection solutions for steel constructions according to FTP Code 2010

Standard Design <i>Lightweight and Easy Logistics</i> <i>4 products to cover all Steel A-Fire classifications, it is all what it takes.</i>					
STEEL	Plate		Stiffener		Complete solution
	Products ²⁾	Weight [kg/m²]	Products ²⁾	Weight [kg/m²]	Weight [kg/m²] ³⁾
A-15 Bulkhead	U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm	1,20	U SeaProtect Slab 76 25mm	1,90	2,53
			U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm	1,20	2,04
A-30 Bulkhead A-60 Bulkhead Restricted	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm	2,52	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm	2,52	4,28
			U SeaProtect Slab 76 25mm	1,90	3,85
A-60 Bulkhead	U SeaProtect Slab 56 70mm	3,92	U SeaProtect Slab 76 25mm	1,90	5,25
A-15 Deck A-30 Deck	U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm	1,20	U SeaProtect Slab 76 25mm	1,90	2,53
			U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm	1,20	2,04
A-60 Deck	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm	2,52	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm	2,52	4,28
			U SeaProtect Slab 76 25mm	1,90	3,85

Thin Design <i>Thin solutions between and around the stiffeners.</i>					
STEEL	Plate		Stiffener		Complete solution
	Products ²⁾	Weight [kg/m²]	Products ²⁾	Weight [kg/m²]	Weight [kg/m²] ³⁾
A-15 Bulkhead	U SeaProtect Slab 66 30 mm	1,98	no insulation around stiffeners	—	1,98
A-30 Bulkhead Restricted	U SeaProtect Slab 46 40 mm	1,84	U SeaProtect Slab 46 30 mm	1,38	2,81
A-30 Bulkhead	U SeaProtect Slab 36 70 mm or U SeaProtect Roll 36 70 mm	2,52	U SeaProtect Slab 76 20 mm	1,52	3,58
	U SeaProtect Slab 76 40 mm or U SeaProtect Slab 76 20 mm x 2	3,04	U SeaProtect Slab 76 20 mm	1,52	4,10
			or U SeaProtect Slab 76 25 mm	1,90	4,37
A-60 Bulkhead	U SeaProtect Slab 56 70 mm	3,92	U SeaProtect Slab 76 20 mm	1,52	4,98
	U SeaProtect Slab 86 50 mm	4,30	U SeaProtect Slab 76 25 mm	1,90	5,63
A-15 Deck	U SeaProtect Slab 36 70 mm or U SeaProtect Roll 36 70 mm	2,52	no insulation around stiffeners	—	2,52
A-15 Deck A-30 Deck	U SeaProtect Slab 24 50 mm or U SeaProtect Roll 24 50 mm	1,20	U SeaProtect Slab 76 20 mm	1,52	2,26
	U SeaProtect Slab 76 25 mm	1,90	U SeaProtect Slab 76 20 mm	1,52	2,96
			or U SeaProtect Slab 76 25 mm	1,90	3,23
A-60 Deck	U SeaProtect Slab 66 50 mm	3,30	U SeaProtect Slab 76 25 mm	1,90	4,63

Products highlighted in colors are part of the U SeaProtect Easy Logistics portfolio. These products are available with a lower Minimum Order Quantity (equivalent to 1 pallet) for various facings. For more information, please contact your local ISOVER representative.

1) B Facing is a laminated composite facing combining Glass cloth and Aluminum foil.

2) All U SeaProtect products are available for each construction with different facings approved by a recognized test laboratory (Alu facing Alu1, Glass cloth facings G120, G220, G420, B facing, etc.).

3) Estimation of the weight for the complete solution is based on the surface ratio traditionally used in Marine industry of 1 for the plate part and 0,7 for the stiffeners.

U SeaProtect steel constructions

Snapshot of all possible combinations

Various thickness solutions are possible between and around the stiffeners.
As space is so important on a ship it is good to have a choice.



Steel constructions FTP Code 2010		Stiffener ³⁾			
A- Fire Class	Plate ²⁾	U SeaProtect Slab 76 25mm	U SeaProtect Slab 76 20mm	U SeaProtect Slab 56 30mm	Other possibilities
A-60 Bulkhead	U SeaProtect Slab 56 70mm	●	●	●	
	U SeaProtect Slab 86 50mm				
A-60 Bulkhead (Double Sided)	U SeaProtect Slab 46 30mm on each side				U SeaProtect Slab 46 30mm X1 (on the stiffener side)
A-60 Bulkhead Restricted	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm	●			U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm
A-30 Bulkhead	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm	●	●	●	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm
	U SeaProtect Slab 76 40mm or U SeaProtect Slab 76 20mmX2	●	●		
A-30 Bulkhead Restricted	U SeaProtect Slab 46 40mm				U SeaProtect Slab 46 30mm or U SeaProtect Slab 46 40mm
A-15 Bulkhead	U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm	●	●	●	U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm
	U SeaProtect Slab 66 30mm				no insulation around the stiffeners
A-60 Deck	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm	●			U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm
	U SeaProtect Slab 66 50mm				
A-30 Deck A-15 Deck	U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm	●	●	●	U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm
	U SeaProtect Slab 76 25mm	●	●		
A-15 Deck	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm				no insulation around the stiffeners

+ To achieve higher thermal and acoustic performance, possibility to install a 2nd Layer of 24kg/m³ 50mm on the plate (Best Comfort Class constructions) or to increase density or thickness of our solutions according to our certificates¹⁾.

U SeaProtect steel constructions and Best Comfort Class constructions

Excellent thermal insulation, excellent acoustic performance



Steel constructions FTP Code 2010				Best Comfort Class constructions				Fire certification
Stiffener ¹⁾	Plate ²⁾	Sound Reduction ³⁾ Rw (C,Ctr) [dB]	U-Value ⁴⁾ [W/m ² .K]	+ 2nd Layer on the Plate (Optional)	Total Thickness on the plate [mm]	Sound Reduction ⁴⁾ Rw (C,Ctr) [dB]	U-Value ⁴⁾ [W/m ² .K]	
no insulation around the stiffeners	U SeaProtect Slab 66 30mm	45(-1;-5)	2,065					A-15 Bulkhead
	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm	47(-1;-6)	1,475					A-15 Deck
U SeaProtect Slab 76 25mm	U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm	47(-2;-6)	0,819	U SeaProtect Slab 24 50mm or U SeaProtect Roll 24 50mm (2 nd layer on top)	100mm	49(-2;-6)	0,506	A-15 Bulkhead A-15 Deck A-30 Deck
	U SeaProtect Slab 36 70mm or U SeaProtect Roll 36 70mm	48(-1;-6)	0,645		120mm	50(-2;-7)	0,429	A-30 Bulkhead A-60 Bulkhead Restricted A-60 Deck
or	U SeaProtect Slab 56 70mm	49(-2;-7)	0,636		120mm	51(-3;-8)	0,425	A-60 Bulkhead
	U SeaProtect Slab 66 50mm	48(-2;-7)	0,785		100mm	50(-3;-8)	0,496	A-60 Deck (Thin Design)
U SeaProtect Slab 56 30mm	U SeaProtect Slab 76 25mm	45(-1;-5)	1,154		75mm	48(-2;-6)	0,624	A-15 Deck (Thin Design) A-30 Deck (Thin Design)
or	U SeaProtect Slab 76 40mm	47(-2;-6)	0,893		90mm	—	0,543	A-30 Bulkhead (Thin Design)
U SeaProtect Slab 76 20mm	U SeaProtect Slab 86 50mm	48(-2;-7)	0,785		100mm	50(-2;-8)	0,496	A-60 Bulkhead (Thin Design)

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- Find all certificates online on our website <http://www.isover-technical-insulation.com/documentation>
- All U SeaProtect products are available for each construction with different facings approved by a recognized test laboratory
- Various types of facings do not influence Sound Reduction performance; measurement shows that variation of thickness around the stiffeners between 20mm and 30mm has a limited influence on the measurement of sound reduction level.
- All U-values have been calculated with U SeaProtect Slab 76 25 mm around the stiffeners (76kg/m³ 25 mm products)

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