



SeaProtect dB-Flex Alu

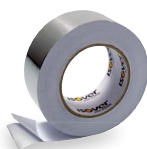
ISOVER **SeaProtect dB-Flex Alu** is a sound protection membrane which **combined with U SeaProtect constructions** provides to ship designers turnkey solutions achieving **very high sound reduction performance levels (up to 53-54 dB)**.

This new solution is particularly adapted to increase sound protection in the medium-low frequency range for specific areas on board of a ship such as engine or machinery rooms, discos, theatres, cinemas.



Main benefits

Full system
combined with
SeaProtect Tape Alu



- Very high sound reduction performance
- Easy and quick to install
- Multiple delivery forms
- Strong and mechanically robust
- Low Flame Spread certificate (FTP Code 2010)

Commercially available
January 2017



Main characteristics



- Reinforced Alu finishing
- Thickness: 1,5mm
- Gramweight: 3 kg/m²

Delivery form	width [mm]	length [mm]	details
Rolls @ ~20kg	1.200	5.000	
	600	10.000	
	400	15.000	for plates
	300	20.000	for stiffeners
Pads	300	1.200	for stiffeners
Prefaced on ULTIMATE SeaProtect products	Customized dimensions on demand		

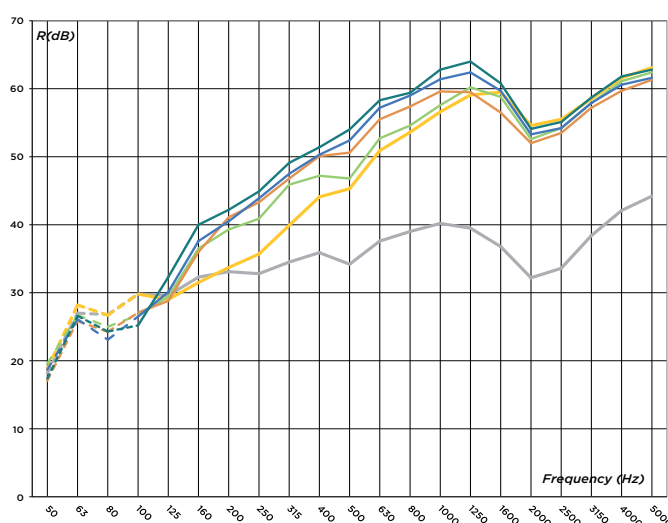
ISOVER Marine & Offshore team carried out intensive acoustic measurement campaigns on multiple configurations. Ask to your ISOVER local representative and find the best solution adapted to your needs balancing performance targeted and total installed costs.

Optimal acoustic design with SeaProtect systems



STEEL constructions with SeaProtect dB-Flex Alu

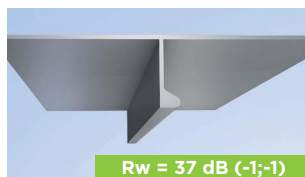
Sound reduction measurements* (dB)



- Reference plate 6 mm
- U SeaProtect [36/70] + 76/25
- U SeaProtect [36/70] + 76/25 + SeaProtect dB-Flex Alu only on the plate
- U SeaProtect [36/70] + SeaProtect dB-Flex Alu on the plate & stiffener (Quick-Cover System)
- U SeaProtect [36/70] + 76/25 + SeaProtect dB-Flex Alu on the plate & stiffener (Quick-Cover System)
- BCC U SeaProtect [36/70 + 24/50] + 76/25 + SeaProtect dB-Flex Alu on top

* Measurements by SAINT-GOBAIN CRDC Chanteraine laboratory, April 2016 according to ISO EN 140-3

Steel constructions without SeaProtect dB-Flex Alu



Steel Plate:
6 mm + Stiffeners x 2
L-shape:
115 mm x 80 mm 10 mm thick
Dimensions: 2.18 m x 1.85 m

Rw = 37 dB (-1;-1)

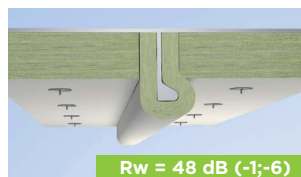


Plate:
U SeaProtect Roll 36 70 mm
Stiffener:
U SeaProtect Slab 76 25 mm

Rw = 48 dB (-1;-6)

Steel constructions with SeaProtect dB-Flex Alu

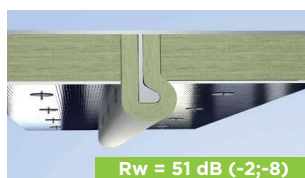


Plate:
U SeaProtect Roll 36 70 mm
+ SeaProtect dB-Flex Alu
Stiffener:
U SeaProtect Slab 76 25 mm

Rw = 51 dB (-2;-8)

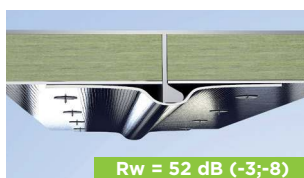


Plate:
U SeaProtect Roll 36 70 mm
+ SeaProtect dB-Flex Alu
Stiffener:
SeaProtect dB-Flex Alu

Rw = 52 dB (-3;-8)



Plate:
U SeaProtect Roll 36 70 mm
+ SeaProtect dB-Flex Alu
Stiffener:
U SeaProtect Slab 76 25 mm
+ SeaProtect dB-Flex Alu

Rw = 53 dB (-3;-9)

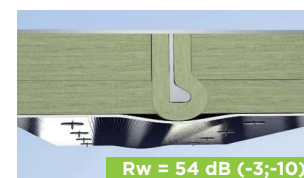


Plate: U SeaProtect Roll 36 70 mm
+ U SeaProtect Roll 24 50 mm
+ SeaProtect dB-Flex Alu
Stiffener: U SeaProtect Slab 76 25 mm
+ SeaProtect dB-Flex Alu

Rw = 54 dB (-3;-10)