

Rockwool Marine Acoustic foil
- the optimal solution system
for sound reduction in engine rooms



**Quiet
please!**

Rockwool Marine Acoustic foil system

Rockwool Marine & Offshore now introduce the optimal system for sound reduction specially dedicated to engine room, cargo pump room and equivalent. During the last year we have experienced an increasing focus on sound reduction on board ships and platforms.

The area of the Engine Room, Cargo Pump Room and the like has previously been a difficult area to comply with when issues as fire protection, noise reduction, resistance to oil / oil mist and mechanical strength had to be made into one solution. Today, Rockwool can offer the perfect solution.

Traditional solutions of insulation with either an alu-foil finish or steel plate finish, are very good for the fire protection and oil contamination protection, but these surface materials unfortunately reduce the otherwise excellent noise absorption properties.

By using the Rockwool Marine Acoustic foil system, also the noise reduction properties of the Rockwool material will stay at its full capacity.

Rockwool Marine Acoustic foil is a very strong and durable thin foil, which is resistant to oil, water and most other substances expected to be found in the environment of the Engine Room.

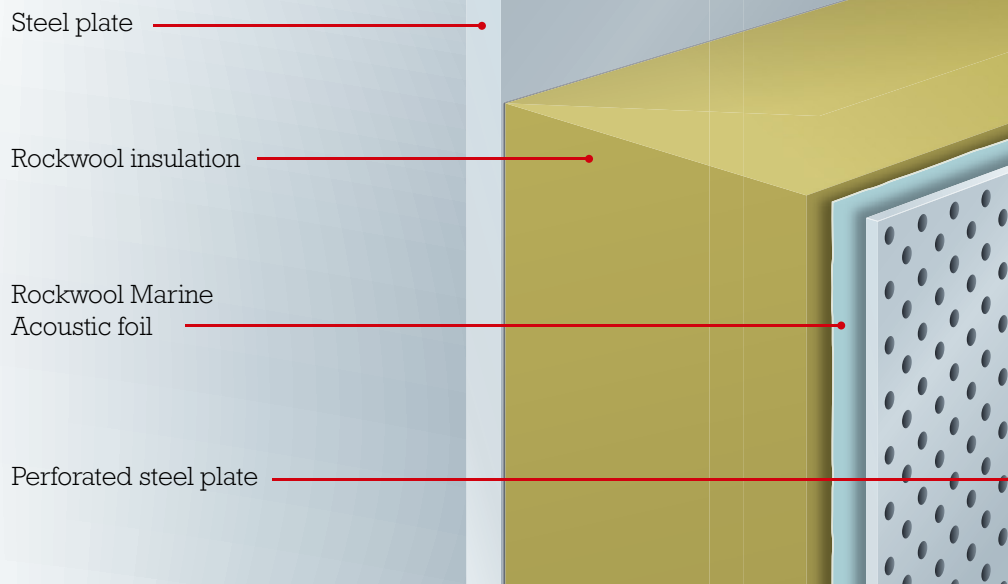
The foil (covering mineral wool insulation and finished by a perforated steel plate) has been tested for surface flammability, according to IMO Res MSC.61(67), annex 1 part 5 and IMO res 653(16), by the Danish Institute of Fire Technology. The result is in full compliance with SOLAS.

The advantages of the new system are:

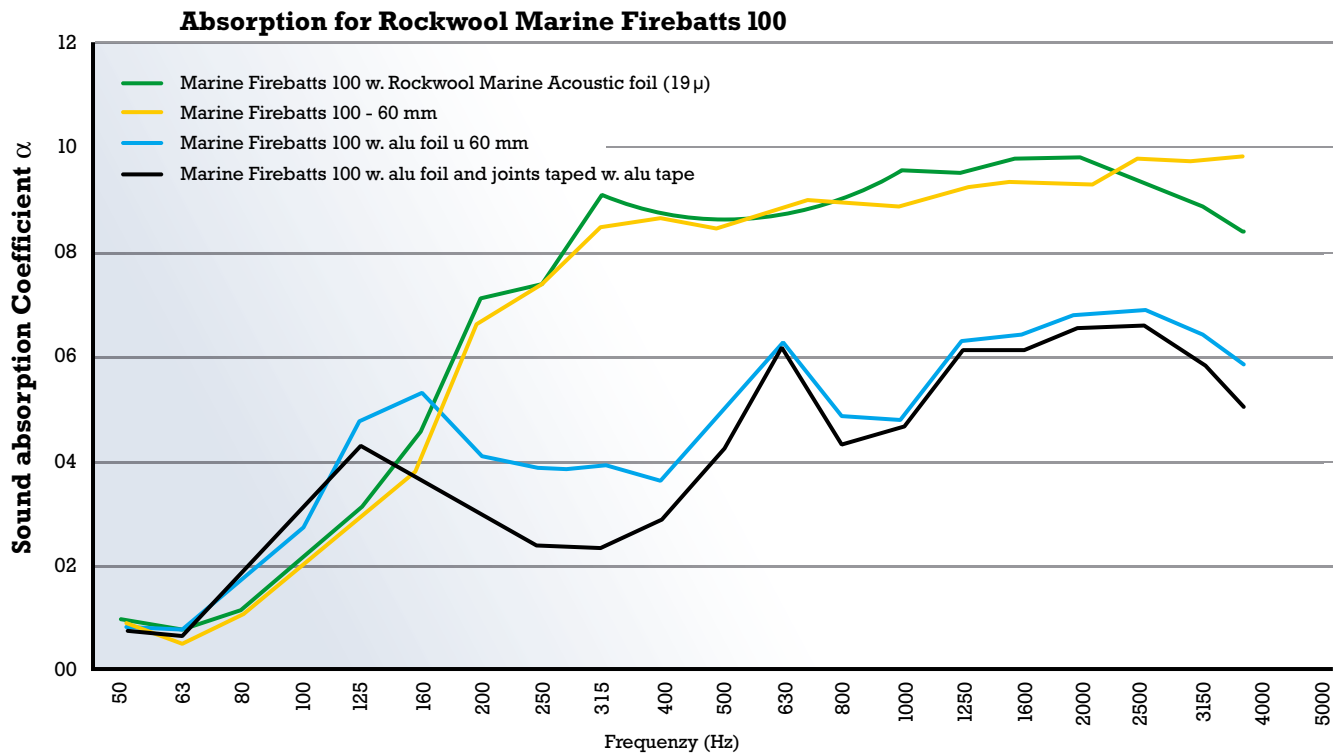
- Optimal sound properties
- Resistant to oil / oil moist
- Tested and approved according to SOLAS FTP-code for surface flammability
- Easy installation



The System



Documented sound properties



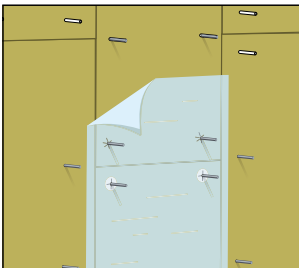
The system has also been tested for sound reduction proven the unique sound properties.



Mount Rockwool Insulation for fire protection.



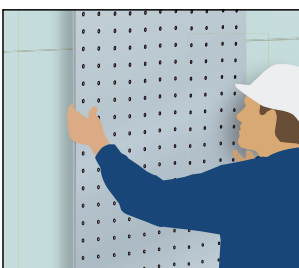
Cut foil in suitable lengths + overlap (min. 100 mm).



Either attach foil to insulation by using the stud welding pins and washers. Next lane attach with overlap of min. 100 mm.



Or with an overlap of min. 10 mm attach foil to insulation by wrapping around slab.



Mount perforated steel plate.

Easy installation

The main issue is that the Rockwool Marine Acoustic foil must not be glued nor fitted tight directly onto the Rockwool material. It is essential that the foil is fitted loosely, with a small distance from the insulation. This is either done by wrapping it around the slabs or by sticking it to the welding pins used to secure the wool.

The foil is to be overlapped by 100 mm. The foil is very strong, but in some cases it can be recommended to add a small piece of tape for reinforcement where the foil is penetrated in connection with the installation.

The Rockwool Marine Acoustic foil can be combined in any of the Approved Fire Protection solutions or with normal thermal insulation.

The solution has been tested as a system including the perforated steel plate. Please notice that Rockwool Marine & Offshore is not supplying the steel plate.

Technical Data:

Thickness: 19 μ . Dimension: 1 x 200 m

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