

# Bondal<sup>®</sup> Naval

## Description

Bondal<sup>®</sup> Naval is our solution to combine born structure noise damping with construction material. Usage of Bondal<sup>®</sup> Naval meets the need to create a higher comfort level in a light weight and an environmental friendly method. The custom made patch work system eases the welding and placement of stiffeners.



Less weight –  
more possibilities

### Weight reduction

This lightweight damped structure material reduces the total added weight of the structure born noise damping system with 100%. In case of a 6 mm steel substrate the reduction will be about 15 kg per m<sup>2</sup> of damped material.

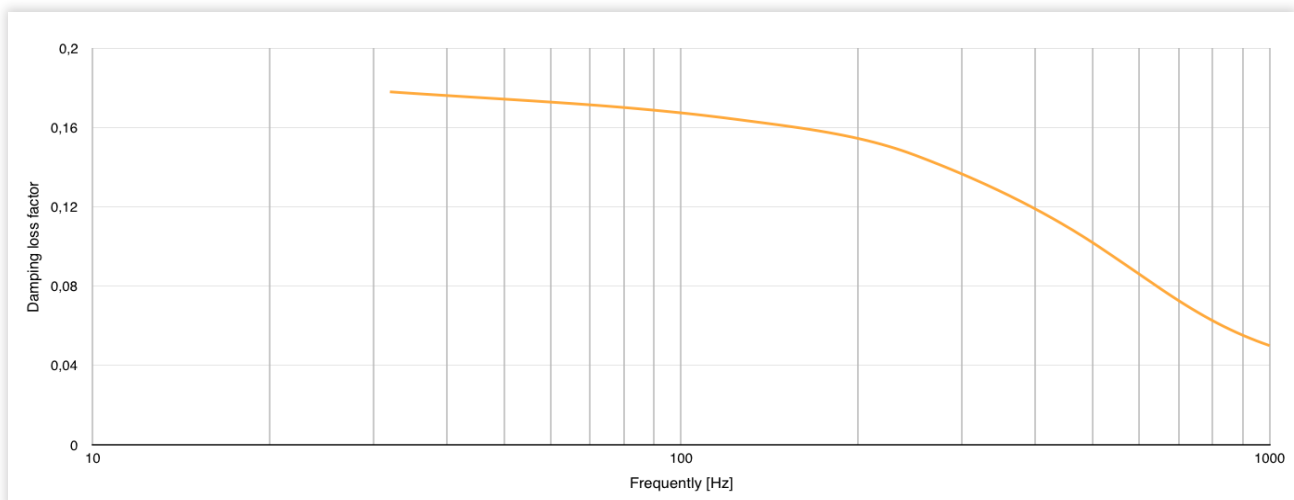


Less Noise –  
more comfort

### High damping

Due to the damping of the very thin visco elastic layer it is possible to replace the regular structure born noise damping with an internal damping layer of 0,05 mm. The acoustical performance of Bondal<sup>®</sup> Naval is mentioned in the graphic below.

### Damping Bondal<sup>®</sup> Naval steel 6,05 mm



Tested by Van Cappellen Consultancy



Less work –  
more results

### Quick 'n easy

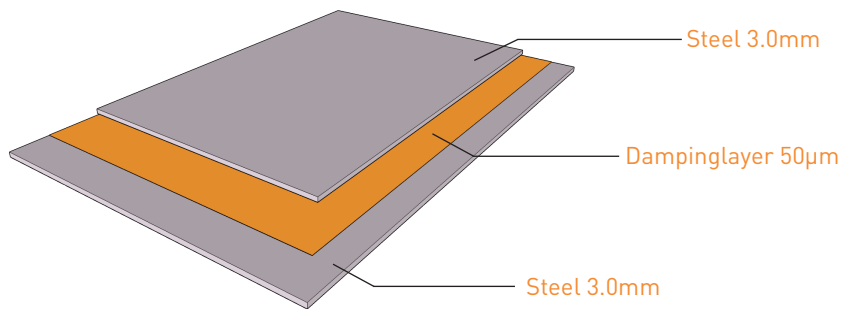
Applying Bondal® Naval as a damped structure part of the ship substantially reduces the amount of onboard labor and drying times which are required by using anti drumming pastes with counter sheets and/or spray coatings.



Less vibrations –  
more layers

### Material

Bondal® Naval is a sandwich material with the strength and possibilities of a monolithic steel sheet in the same thickness and quality. All performed tests have proven that Bondal® Naval meets the requirements of construction steel. The materials facts are mentioned in the table below.



### Bondal® Naval properties

Material	Grade A-LRS or Grade AH36-LRS, other qualities on request.
Dimension	Standard 6.000 x 1.250 mm, other dimensions on request.
Thickness	Standard 3,05 or 6,05 mm, other thicknesses on request.
Design	Custom-made.
Test results	All fire and mechanically test results are available on request.



Less products –  
more applications

### Applications:

- Decks
- Bow thruster
- Casings
- Bulkheads
- And many more