

Coated Bondal Steel

Description

Bondal Steel is our solution to combine structure borne noise damping with cladding material. Usage of Bondal Steel meets the need to create a higher comfort level in an easy applicable, and an environmentally friendly method.



Less weight
More possibilities

Weight reduction

This lightweight damped cladding material reduces the total added weight of the structure borne noise damping system with approx. 100%. In case of a 3 mm steel substrate, the reduction will be about 9,5 kg per square m² of damped material.

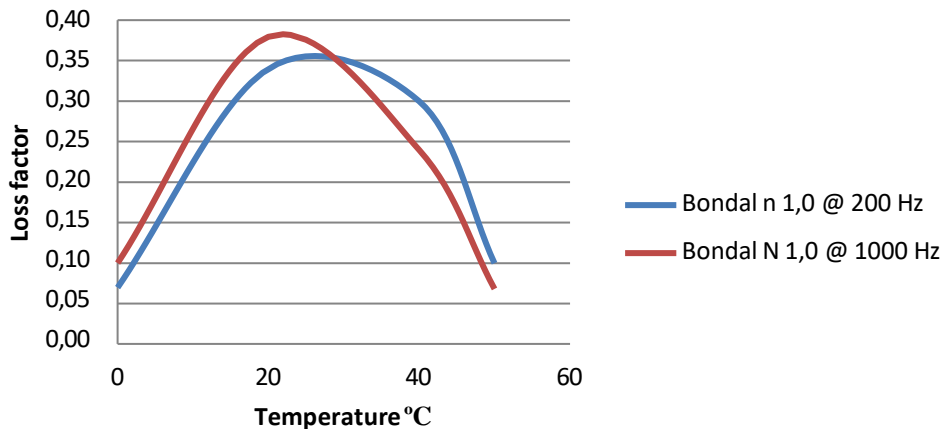


Less noise
More comfort

High damping

Due to the high damping of the very thin visco elastic layer, it is possible to replace the regular structure borne noise damping with an internal damping layer of 0,05 mm. The acoustical performance of Bondal Steel is mentioned in the graphic below.

Loss factor Bondal® N



Measured according to ASTM E-756-98



Less work
More results

Quick and Easy

Applying Bondal Steel as a damped cladding part of the ship, reduces the amount of onboard labor and drying time substantially, which are required by using anti drumming pastes with counter sheets and spray coatings on similar steel surfaces.



Less vibrations
More Layers

Coating

Bondal Steel is pre coated with a polyester paint. Standard colors are RAL 9003 and RAL 9010. Both are coated in high gloss. Correction can be made with polyester paint or, after using a primer, a polyurethan paint. Maximum temperature for the coating is 70 degrees Celsius.

Bondal Steelproperties

| | |
|------------------|--|
| Material | Dx51D + Z275 M-B-C. |
| Dimension | 2.000 x 1.000 mm. 2.500 x 2.500 mm. Other dimensions on request. |
| Thickness Bondal | Standard 1,55, or 2,05 mm, other thicknesses on request. |
| coating | 45 µm polyester coating in 9003 and 9010. |
| Environment | Fully recyclable. |
| Test results | Full test results are available on request. |
| Weight | 7,8 kg/m ² per mm thickness. |

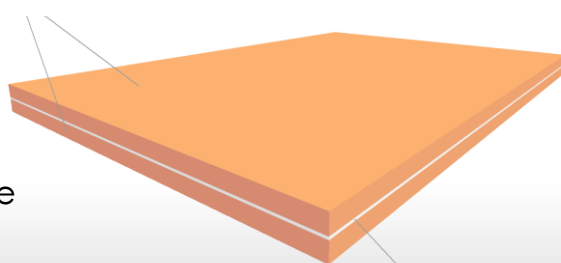


Less products –
more applications

Applications:

- ceilings
- walls
- air ducts
- enclosures
- and many more

Steel(1,0 mm. each)



damping layer (50µm)