

NORDISK AKUSTIK A/S



LDL

for sandwich-constructions

LDL is used in sandwich-constructions of plywood, chips or metal. Functions as structure sound damping.
LDL is used for bus and train floors, industrial machines, sound cabinets, boats, etc.

LDL vibration and structure sound damping for sandwich-constructions, size 1000 x 1020 mm., thickness 1,4 mm., weight approx. 1,4 kg/m². Self-adhesive on both sides with release paper. Art. nr. 100250.

LDL consists of a mat with self-adhesive viscoelastic mass on both sides. The mat is bitumen impregnated, which means that it does not absorb water. LDL is especially used for structure sound damping of wood and metal sandwich constructions. The best structure sound damping is achieved when the sheets that surround LDL have the same thickness, that is a symmetrical construction. The sound damping effect is still good as an asymmetrical construction with a difference in the thickness 1:4.

Self-adhesive strength: Approx. 25N/cm²
Colour: Black
Heat and cold resistance: -30° to +90°C
Storage life: Max. 6 months

Handling and mounting:

It is necessary that the material has had room temperature in 48 hours before mounting. LDL can easily be adjusted either with knife, die-cutting or scissors. The sandwich-construction is compressed. At a pressure of 3 kg/cm² in 5 minutes a good construction is achieved.

Fig. 1

Reduction in dB of noise from a plastic grinder. The curve shows before and after using LDL.

dB sound pressure level (2 x 10 x 5 Pa)

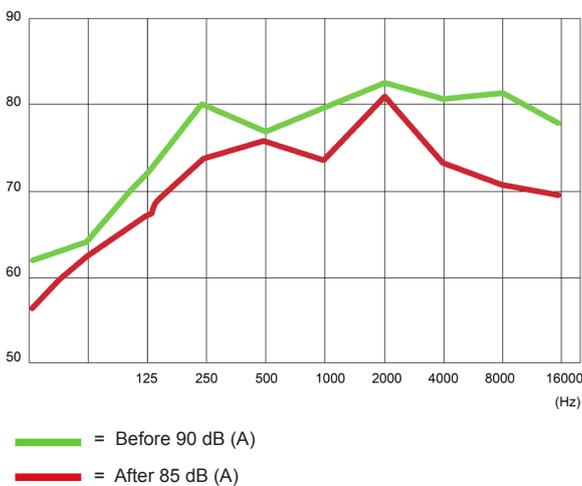


Fig. 2. and fig. 3. shows the reduction factor dB, which can be achieved using a sandwich-construction with LDL in preference to merely a glued product.

Fig. 2

Fig. 2. shows the reduction factor of 15 mm. plywood and of 2 x 12 mm. plywood laminated with LDL.

Reduction factor dB

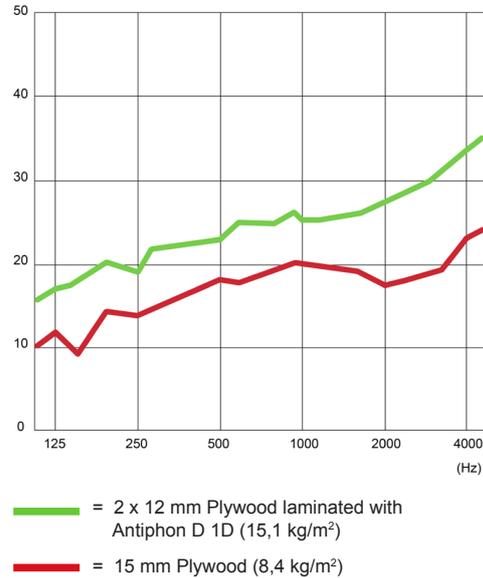
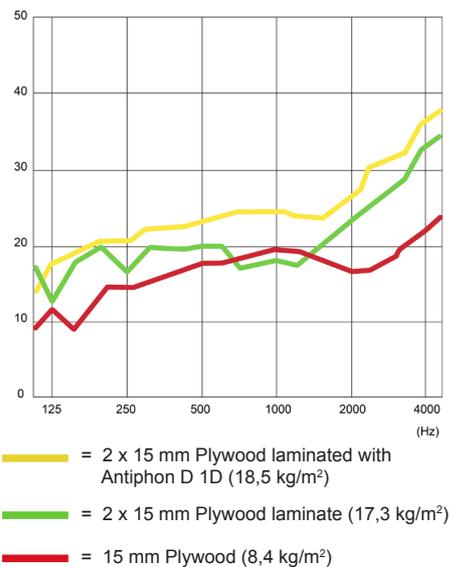


Fig. 3

Fig. 3. shows the reduction factor with various plywood-constructions. The measurements are completed at Chalmers Tekniska Högskola. The test piece was 1,3 x 2,0 m². Rotating microphones have been used measuring. Measurements are completed according to ISO R 140 and SIS 025251.



All information and instructions for use of products is based on experiments, test and practical experience. However, they should be treated as general guidelines only. Local conditions and other used materials may influence end results. Nordisk Akustik A/S accept no responsibility for the results achieved when our products are used, as the conditions under which work is carried out is beyond our control.