

Product description

D1D is a bitumen-impregnated viscoelastic sheet which is covered with self-adhesive on both sides.

Application

For damping oscillations in metal and wooden structures, as per the sandwich principle. The sheet is placed between the construction that is intended to be noise damped and a counter-sheet whose thickness is adapted according to the thickness of the base construction. Is suitable for thin sheet constructions and for greater wall thicknesses, and can be used in machine constructions, conveyor systems, vehicles, stairs, floor plates, loading docks, floors, etc.

Acoustic data

The material's sound damping qualities depend on an increase in the mechanical loss factor, which is a measure of the vibration energy which is converted into heat energy. The best results are achieved if the counter-sheet and the base construction have the same thickness, but good results are obtained at thickness ratios up to 4:1.

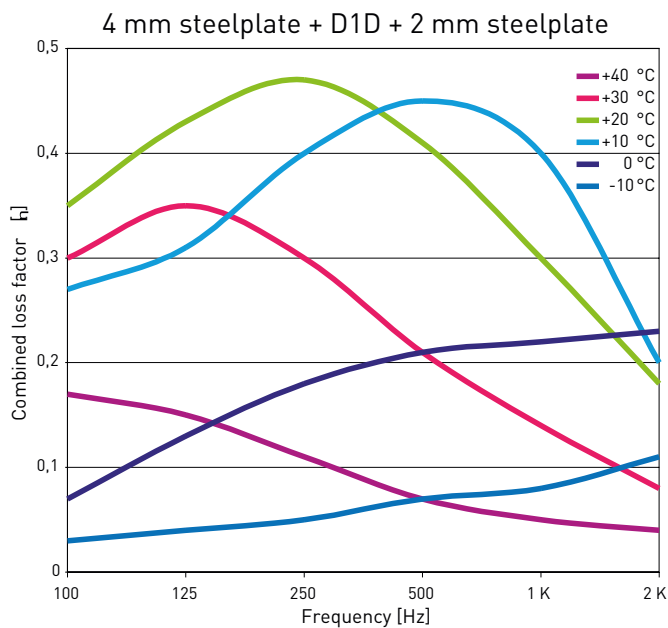


Fig. 1 Shows the loss factor's dependence on the frequency at different temperatures for a construction consisting of a 4 mm steel plate, D1D and a 2 mm steel counter-sheet.

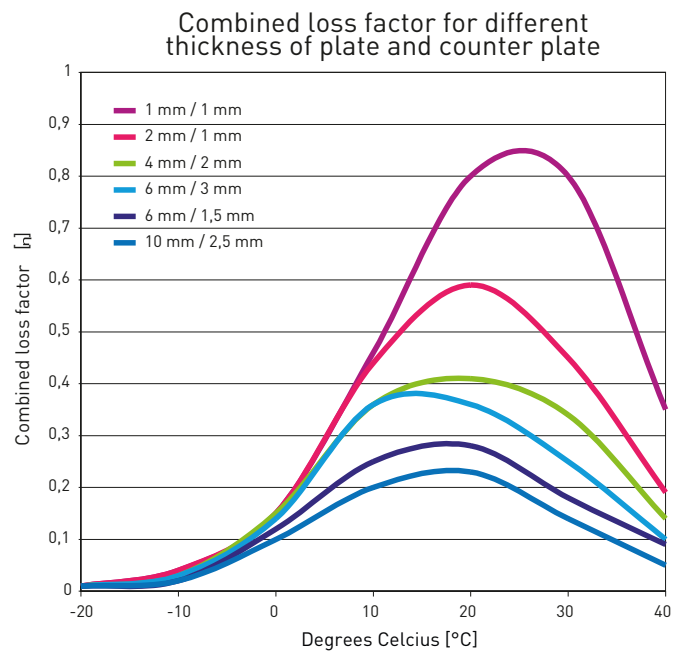


Fig.2 The loss factor's dependence on the temperature at a frequency of 200 Hz. The curves shown indicate the thickness of the basic construction in steel and the counter-sheet in steel.

	Product data
Surface weight	1.3 kg/m ²
Sheet format	1 x 0.6 m x m
Thickness	1.3 mm
Colour	Black
Temperature	-30 °C to +90 °C
Adhesiveness	40 N/cm ² (after compression at 32 N/cm ² for 5 min.)
Storage	Between 0 °C and 30 °C