

# Technical Specifications QuietClad

SOUND SHIELD

ENGINE

SERVICE CHANNEL

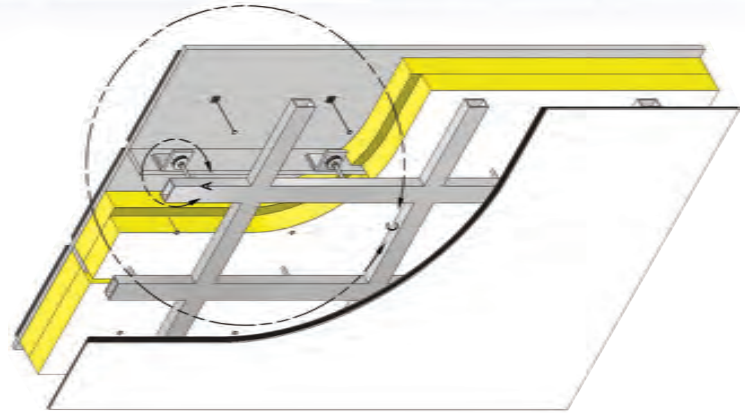
Soundown QuietClad is a sandwich panel for reduction of structureborne and airborne noise. The addition of a thin polymer damping layer between two metal skins provides high levels of damping and transmission loss. QuietClad is most often used as a mass layer and/or finish material in machinery space insulation packages.

QuietClad standard 5mil (0.127mm) damping interlayer can be placed between sheets of steel or aluminum from 0.020" (0.5mm) to 0.125" (2mm). The thickness of the materials is generally determined by the required mass or stiffness characteristics of the panel. The skins can be either symmetrical in thickness or asymmetrical. Symmetrical panels have slightly better acoustic performance, however, asymmetrical panels are also very effective as long as the ratio does not exceed 1:4. For specialty application thicker damping layers and metal skins can be fabricated.

As a highly damped material QuietClad provides increased transmission loss when compared to non damped metal sheets of the same weight and thickness. This allows builders to reach their noise targets without adding unnecessary or unwanted weight to a vessel.

When installed in a machinery space the highest levels of transmission loss can be achieved by attaching QuietClad to an isolated grid system such as Soundown's IsoGrid. Installed in this manner QuietClad provides a durable clean sheathing. Available finishes include mil, polished or coated white. QuietClad is often installed without need for painting. On site. For application where a color match is required this material is easily paintable.

Standard products are mild steel or aluminum, however, QuietClad can also be supplied in special materials, such as stainless steel, galvanized steel or other alloys. Different materials can be combined - for example stainless steel on one side and aluminum on the other. Contact corrosion is effectively prevented, since the polymer inner layer isolates the plates from each other.



*Detail of QuietClad attached as a finish material to an isolated grid. This grid is isolated on Ring/Bushing mounts and typical of a machinery space overhead.*



*Installation of detail above using QuietClad with available polar white acrylic finish aboard a 45M power yacht. Sheets are supplied with a removable protective film (shown peeled away at edges) to prevent marring of finish surface.*



All statements herein are expression of opinion that we believe to be accurate and reliable, but are presented without guaranty or responsibility on our part.

ISO GRID (203,2mm) ENGINE EXHAUST PIPE

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