

MISCELLANY



GENERAL INFORMATION:

In this chapter we like to highlight two (2) products which are very important related to accommodation areas "box-in-box" construction.



SLP-MER

SLP-MER is an elastomer strip(s) used for floating floor applications. Floating floor is the BASE for box-in-box construction and the KEY to achieve low noise and vibration levels.

The concept of a floating floor, as shown above, is creating a floor gridwork (L-profiles) and the elastomer strips (green) are glued on top of the L-profiles. The floor panels (SLP-PANEL) are installed on top of the elastomer strips. This is the concept of a floating floor.

The correct type of elastomer is pending on the size of the gridwork | static and dynamic load on top of the floor and the main disturbing frequencies.

The natural frequency of the floor must be calculated at all times (both static and dynamic) in order to avoid vibration problems | resonance.

VIBRATION DAMPING SYLOMER - elastomer



SYLOMER	static load till	Insulation range (dyn. and stat. load)
SR 11 = yellow	0,000 - 0,011 N/mm ²	0,016 N/mm ²
SR 18 = orange	0,011 - 0,018 N/mm ²	0,028 N/mm ²
SR 28 = blue	0,018 - 0,025 N/mm ²	0,042 N/mm ²
SR 42 = pink	0,025 - 0,042 N/mm ²	0,065 N/mm ²
SR 55 = green	0,042 - 0,055 N/mm ²	0,085N/mm ²
SR 110 = brown	0,055 - 0,110 N/mm ²	0,16 N/mm ²
SR 220 = red	0,110 - 0,220 N/mm ²	0,35 N/mm ²
SR 450 = grey	0,220 - 0,450 N/mm ²	0,7 N/mm ²
SR 850 = turquoise	0,450 - 0,850 N/mm ²	1,3 N/mm ²
SR 1200 = violet	0,850 - 1,200 N/mm ²	1,8 N/mm ²

Description	Sylomer is a high quality polyurethane foam (Elastomer) that, because of its elastic qualities, is eminently suitable for sprung assemblies. Sylomer can be fitted with a wear resistant top layer and comes in standard thicknesses 12,5 and 25 mm.
Characteristics	<ul style="list-style-type: none"> • Sylomer damps as well horizontal, vertical and torsional vibrations • Permanent elastic properties, even with a large brief overload • Sylomer plates / rolls can be cut to size with a (Stanley)knife or bandsaw • Resistant to water, motor oil, grease, diesel • Resistance to dilute acids and bases, solvents available on request • One of its not resistant to acetone, ethyl acetate, thinner • Flame retardant in accordance with DIN 4102 (B2), EN ISO 11925-2 (B, C and D) • Sylomer volume is reduced under load, without sideways expansion as with rubber, Sylomer can therefore be applied for permanent shuttering • Sprung assemblies across larger surface areas provide the following advantages: <ul style="list-style-type: none"> - Low building height - Low specific load of the base - Reduced torsional and bending vibration in machine - Improved structural stability • Temperature resistant -30 °C tot +70 °C
Application	Machines and equipment, floors, shipframes, walls, bridges, stair overlays, building, foundations, the lining of funnels
Processing	Alternative thicknesses (as standard) can be created by gluing layers together for bonding SYLOMER (with wear-resistant top-layer) on steel, wood, concrete, direct exposure to the sun should be avoided plastic and so we recommend using contact adhesive TEROKAL-2444 or V607 BARYVIBRO two-component adhesive
Dimensions	Rolls of maximum 5.000 mm long and 1.500 mm wide Standard small rolls of 5000 x 50 mm and 5000 x 40 mm, adhesive or not-adhesive Special thicknesses, dimensions and combinations on demand



SLP-CEILING MOUNTS

In the concept of a box-in-box construction all partition walls, hull and bulkhead liners must be installed on top of the floating floor. The liners and partition walls must be completely disconnected from the ship structure at all times.

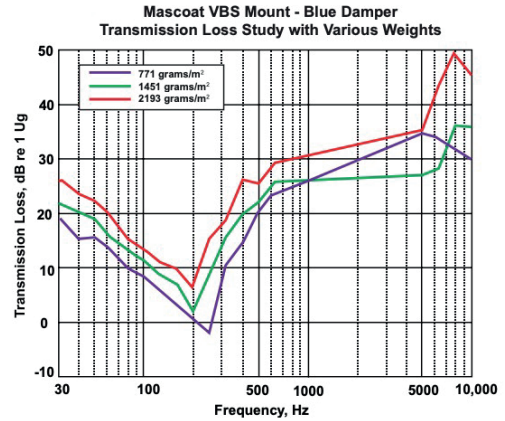
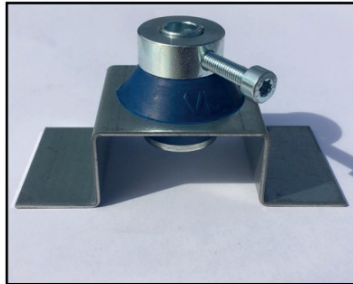
In order to create "stability" within the cabin surroundings we create a gridwork at the upper part of the liners and partition walls. This gridwork is flexible mounted unto the deck structure using the SLP-CEILING MOUNTS.

The number of mounts per square meter is pending on the weight of the ceiling including decoration.

BLUE DAMPER

MEDIUM TO HEAVY LOADS

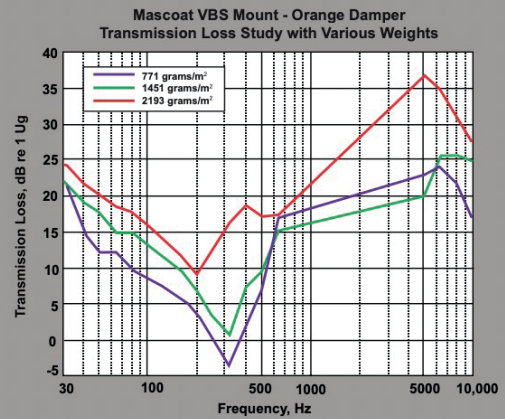
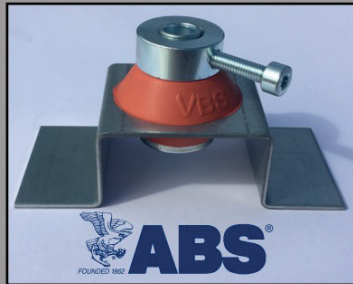
The Blue Damper was designed for heavier loads. By coupling this system with heavier panels, noise and vibration can be controlled effectively.



ORANGE DAMPER

IMO TESTED

The Orange Damper adheres to IMO Code Part 5 regarding Surface Flammability and has an ABS Certificate of Design Assessment. It has superior flame resistance, while still effectively reducing noise and vibrations.



GREY DAMPER

LIGHT TO MEDIUM LOADS

The Grey Damper is most effective with lighter loads. By coupling this system with lighter panels, noise and vibration can be noticeably reduced.

