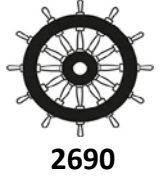


Document Nr. : TDS-03
Issue date : 01.Feb.2024
Revision Nr. : 0
Revision Date : -/-

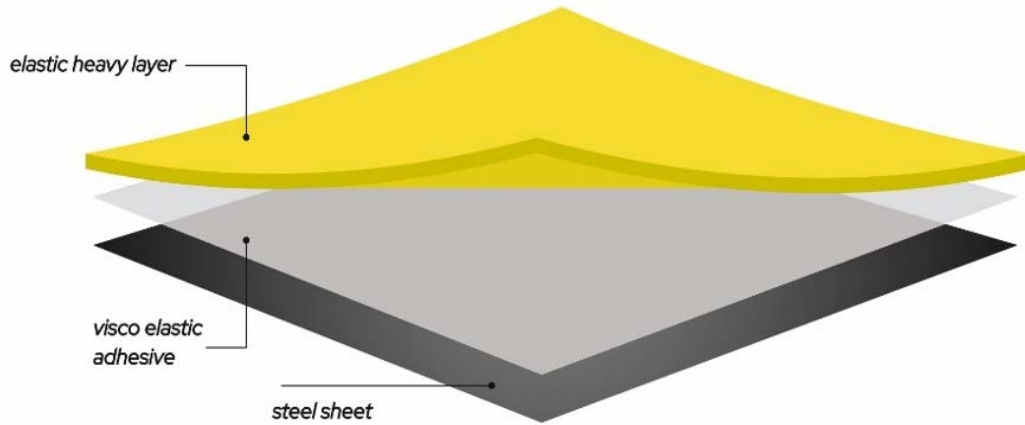


Multi-Layer Damping Tile MDT-STL[®] / STEEL DAMPING TILE

Description:

MDT-STL[®] is a multi-layer air borne and structure borne noise damping tile system which significantly reduces the vibrations and noise levels in Steel, fiber-reinforced plastic surfaces.

MDT-STL[®] is specifically designed to provide very high damping, can be applied on curved surfaces with high flexibility, lightweight compared to sprayed damping products and has a very easy and clean installation procedure.



MDT-STL[®] consists of a self-adhesive high-density polymer-based non-combustible heavy layer attached to a sheet of STEEL with a viscoelastic adhesive. MDT-STL[®] application is with a peel-off self-adhesive for easy, clean and fast application.

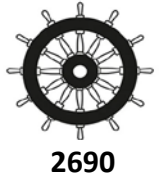
MDT-STL[®] is ideal for damping wide frequency noise and vibrations. It should be applied to at least 75% of the surface to significantly reduce vibrations and noise levels.

NOISE DAMPING SOLUTIONS LTD.STI

Istim Sanayi Sitesi / Istasyon Mah.
Yaris Cikmazi Sk. No : 3 Ic Kapi : 3
Tuzla / Istanbul / TURKIYE

Tel : +90 216 766 0620 GSM : +90 532 6964517
sevket.s@noisedampingsolution.com
www.noisedampingsolution.com

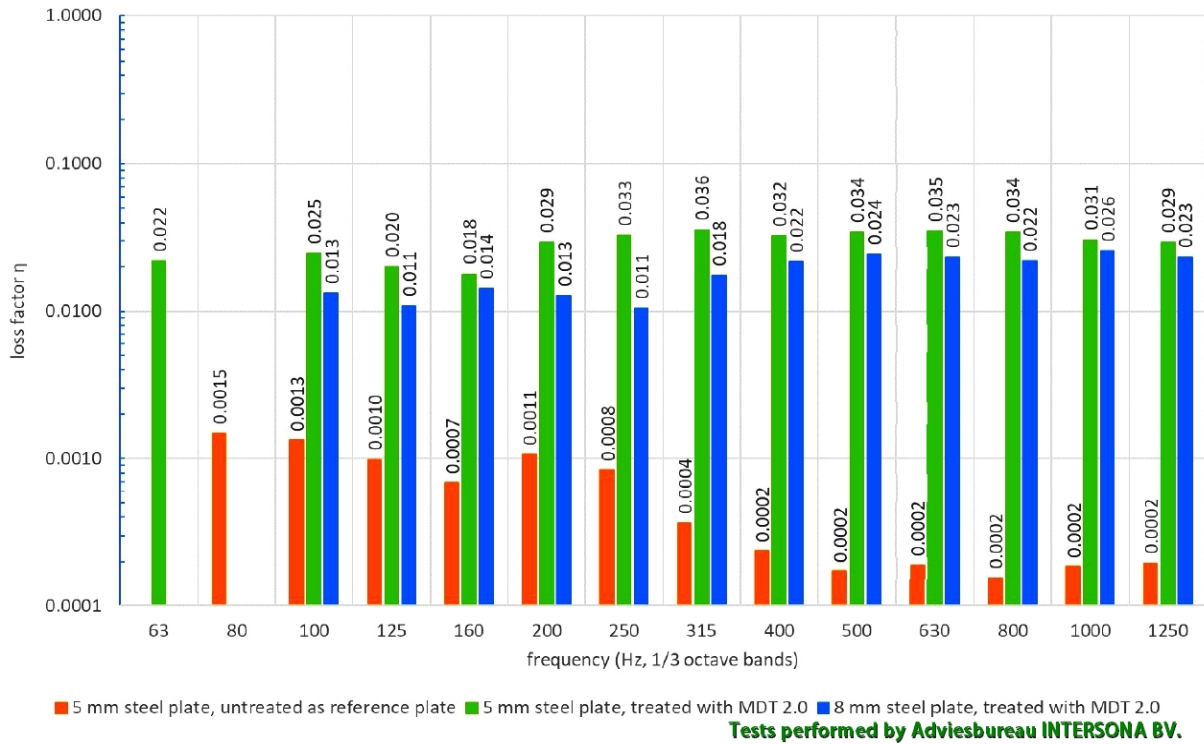
Document Nr. : TDS-03
 Issue date : 01.Feb.2024
 Revision Nr. : 0
 Revision Date : -/-



Acoustic Properties/ Test results :

When examined Vibration Frequency Response of Plain surface versus MDT applied surface, the vibrations are much more damped on the panel with MDT applied at all frequencies.

Figure 5: loss factor steel panels @ 19 °C



Applications and Features

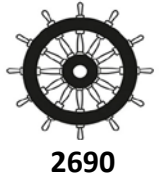
- ✚ Wide frequency range vibration damping of Steel and FRP decks and bulkheads.
- ✚ Insulates against air-borne and structural sound.
- ✚ A good solution for weight and thickness sensitive projects applications.
- ✚ Easy installation due to its self-adhesive feature
- ✚ Can be cut and shaped easily curved surfaces.

NOISE DAMPING SOLUTIONS LTD.STI

Istim Sanayi Sitesi / Istasyon Mah.
 Yaris Cikmazi Sk. No : 3 Ic Kapi : 3
 Tuzla / Istanbul / TURKIYE

Tel : +90 216 766 0620 GSM : +90 532 6964517
sevket.s@noisedampingsolution.com
www.noisedampingsolution.com

Document Nr. : TDS-03
Issue date : 01.Feb.2024
Revision Nr. : 0
Revision Date : -/-



Average Loss factors calculated for 1/3 octave bands :

Table 1: Average measured loss factor of tested panels

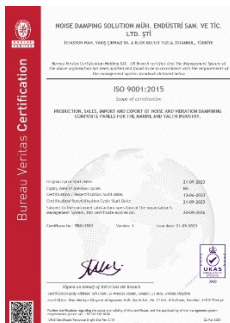
Panel no.	Description	Average loss factor (63 Hz – 1.25 kHz)
	Steel	
4	5 mm steel plate, untreated as reference plate	0.0006
9	5 mm steel plate, treated with MDT 2.0	0.029

Tests performed by Adviesbureau INTERSONA BV.

Technical Data :

MDT-STL Properties

Material	Steel	Galvanised Steel
Dimensions	195 mm. x 295 mm. Other dimensions are available on request	
Thickness Steel	3,25 mm (Steel) (0.5mm. Steel + 0.25 Viscoelastic Layer+2.5 Polymer Layer) Thicknesses can be re-designed according to customer request.	
Coating/Color	Plain/galvanise color	
Weight MDT-STL As applied.	6,25 kg/m ² (3,25 mm MDT Steel)	



NOISE DAMPING SOLUTIONS LTD.STI

Istim Sanayi Sitesi / Istasyon Mah.
Yaris Cikmazi Sk. No : 3 Ic Kapi : 3
Tuzla / Istanbul / TURKIYE

Tel : +90 216 766 0620 GSM : +90 532 6964517
sevket.s@noisedampingsolution.com
www.noisedampingsolution.com