

VIZYON INNOVATIVE INSULATION LTD. MARINE INTERIOR INSULATION PRODUCTS CATALOG

MARINE - DEFENSE INDUSTRY - OFFSHORE - RAILWAYS - TRANSPORT



New generation Sound & Vibration control, Condensation and Corrosion control, High temperature & Cryogenic Thermal Insulation and Passive Fire Protection solutions

Vizyon Innovative Insulation Energy and Engineering Ltd. Corp. www.vizyonendustryelyalitim.com

Tel: +90 532 696 45 17 Tel: +90 216 446 00 44



PROMARINE®-450T

Colour		Off-white		
Surface conditions		Smooth, sanded	d	
Nominal density (tolerance) (EN 12467)	kg/m³	450 (±15%)		
Reaction to fire		Non-combustible Certificate Number: 164.109/1121 /WCL MED 475TE		
Class divisions Panel thickness	mm	A0 Bulkhead 19	A60 Bulkhead 19+19 with	B15 Bulkhead 19
Panels joint 1)		Solid spline	10mm air gap Solid Spline	Solid spline, "C" spline or Omega joint
Thermal conductivity 20 °C (hot wire method)	W/mK	0.138		
Alkalinity	рН	7-10		
Coefficient of expansion a	m/mK	2.4 ·10 ·6		
Moisture movement	%	< 0.1 (ambient	to saturated)	
Moisture content Typical Maximum	%	< 5 (at despatcl	٦)	
Bending strength (oven dry, EN 12467)	N/mm²	> 2.2		
Compressive strength (oven dry, EN 12467) 5% deformation 10% deformation	N/mm² N/mm²	5 10		
Quality assurance	N/mm²	Module D. Cert	ificate WCL MED164	.109/1121/0475QA

Acoustic properties			
Thickness	mm	19	19+19 (+10mm air gap)
R _w index (ISO 717/1)	dB	27 ²)	36

Dimensions (standard)			
Thickness (tolerance)	mm	16 (\pm 0.4, double sanded)	19 (±0.4, double sanded)
Width (tolerance)	mm	1220 (±1)	1220 (±1)
Length (tolerance)	mm	2440 (±1)	2440 (±1)



PROMARINE®-450T

Areas of application

- A, B & C Class constructions
- Compartmentation
- Linings
- Non-combustible furniture

Workability

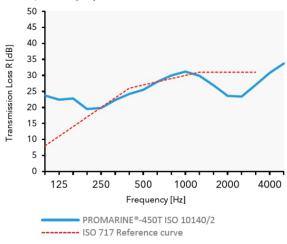
PROMARINE®-450T can be cut using normal woodworking tools or by using circular blades. During cutting operations use personal protective equipment (see below).

Handling

PROMARINE®-450T should be worked and installed using appropriate personal protective equipment (PPE). Use protective gloves, glasses, suitable respiratory equipment

Acoustic properties

19mm, Rw=27 [dB]



to avoid health effects, and suit. Use dust extraction when worked inside. After use, thoroughly wash hands and any other parts that could have been in contact with the material. For further information refer to Safety Information Sheet.

Waste disposal

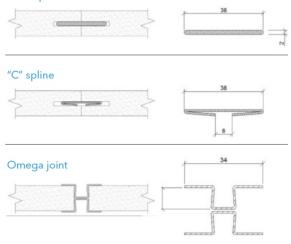
Refer to local legislation. If not available: The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill.

Storage

Store on a flat surface, in a dry area.

Class divisions - joint drawings

Solid spline







Technical data sheet



PROMARINE®-640T



Product description

PROMARINE®-640T is a non-combustible autoclaved calcium silicate board, formulated without asbestos and formaldehyde, with excellent fire performance.

Properties

- smooth and consistent surface finish
- suitable for bonding with high pressure laminates
- easy to work, cut and fix
- · moisture resistant

Colour		Off-white			
Surface conditions		Smooth, sanded			
Nominal density (tolerance) (EN 12467)	kg/m³	640 (±10%)			
Reaction to fire		Non-combustible Certificate Number: 164.109/1121/WCL MED 476TE			
Class divisions Panel thickness Panels joint ¹⁾	mm	A0 Bulkhead 12.7 Solid spline	B0 Bulkhead 12.7 Solid spline	B15 Bulkhead 19 Solid spline, "C" spline or Omega joint	B15 Bulkhead 12.7+12.7 with 48 mm air gap Omega joint
Thermal conductivity 20 °C (hot wire method)	VAI (see IC	0.104		1 2 2 2 2	
,	W/mK	0.194			
Alkalinity	рН	7–10			
Coefficient of expansion α	m/mK	3·10 ·6			
Moisture movement	%	< 0.1 (ambient	to saturated)		
Moisture content Typical Maximum	% %	< 5 (at despatc < 12	h)		
Bending strength (oven dry, EN 12467)	N/mm ²	> 3			
Compressive strength (oven dry, EN 12467) 1% deformation 5% deformation	N/mm ² N/mm ²	2 10			
Quality assurance	N/mm ²		ificate WCL MED16	64.109/1121/0476QA	

¹⁾ See specific drawings on page 2.

Acoustic properties				
Thickness	mm	12.7	19	12.7+12.7
R _w index (ISO 717/1)	dB	29	30 ²⁾	36

²⁾ See **I**SO 10140/2 curve on page 2.

Dimensions (standard)		
Thickness (tolerance)	mm	9.5 / 12.7 / 15.9 / 19.1 / 22.2 / 25.4 (±0.4, double sanded)
Width (tolerance)	mm	1220 (±1)
Length (tolerance)	mm	2440 (±1)

 $Areas\ of\ application, work ability, handling, waste\ disposal,\ storage,\ acoustic\ curve,\ joint\ drawings:$

see page 2.





Technical data sheet



PROMARINE®-640T

Areas of application

• Ideal for installation and application in the marine market for A, B and C Class divisions.

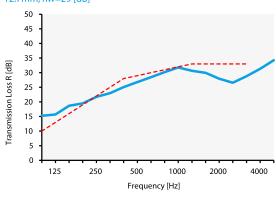
Workability

PROMARINE®–640T can be cut using normal woodwork ing tools or by using circular blades. During cutting operations use personal protective equipment (see below).

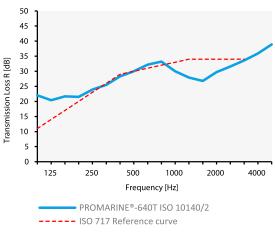
Handling

PROMARINE®-640T ISO 10140/2 should be worked and installed using appropriate personal protective equipment (PPE). Use protective gloves, glasses, suitable respirato ry equipment to avoid health effects, and suit. Use dust

Acoustic properties 12.7mm, Rw=29 [dB]



19.0mm, Rw=30 [dB]



extraction when worked inside. After use, thoroughly wash hands and any other parts that could have been in contact with the material. For further information refer to Safety Information Sheet.

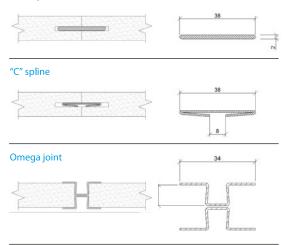
Waste disposal

Refer to local legislation. If not available: The board is not classified as a dangerous substance and so no special pro visions are required regarding the carriage and disposal of the product to landfill.

Storage

Store on a flat surface, in a dry area.

Class divisions – joint drawings Solid spline



All specified technical data are mean values from the production which are subject to the usual fluctuations and do not represent guaranteed properties in the sense of a guarantee. All information corresponds to the current state of the art and has been presented and described to the best of our knowledge. Changes due to new findings are possible, errors and misprints are not excluded. With regard to any flability, our delivery and payment terms apply exclusively, Request safety datasheet. With the publication of this edition, all previously published datasheets are invalid.

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'B15' RATED BULKHEAD

As it is not possible to cover every eventuality on every ship, we have based this example on a 'B15' rated partition, using 19.1mm thick Promarine 640 bonded both sides with 0.8mm thick high pressure laminates.

Bulkhead installation instructions

Detail 1 - Top and Bottom Channels

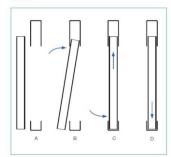
The first step on any installation is the 'marking off' of the positions of the bulkhead or partition. This is usually done with a chalk line marked on the deck. Bottom channels (PC-15-E) are then cut to length and positioned on this line. Bottom channels can be secured to the deck by either tack welding or attached using self tapping screws, dependant on deck surface material. Top channels (PC-17-G) can then be marked off and attached to the deck head, again by either tack welding or self tapping screws. Great care must be taken to align top and bottom channels. Use of 'plumb lines' and/or 'spirit levels' is only recommended if the vessel is in drydock.



Detail 1

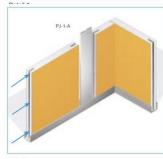
Detail 2 - Panel Insertion

PROMARINE®-640 panels can now be trimmed to the correct length and width and inserted into the top and bottom channels by following the simple procedure indicated on Detail 2.



Detail 3 - 'C' Spline Joint

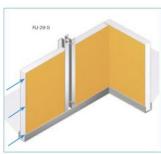
'C' spline (PJ-1-A) joints are also known as 'secret fix' as only the panel edge can be seen after installation. Panels are supplied with grooves cut into the long edges, together with the necessary 'C' splines. It is recommended that the 'C' splines used are supplied by Promat in order to guarantee correct fit. Starting at a corner, panels are simply pushed together as shown, ensuring that the flat side of the 'C' spline is facing the decorative side of the panels.



Detail 4 - Omega Joint

Omega joints (RJ-29-S) are generally used in complex areas and where panels may have to be removed from time to time.

This method allows an individual panel to be removed without disturbing the adjacent panel. The omegas should be trimmed to the required length and loosely screwed together using the screws supplied, and inserted between the panels as shown. As with the 'C' spline, starting at a corner, panels are pushed together into the omegas, and the screws tightened until a tight fit is achieved.

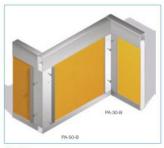


Detail 4



Detail 5 - Corners

Panel runs usually terminate at either 'T' junctions or corners, and are accommodated by using internal angles (PA-30-B) and external angles (PA-50-B) where appropriate. Both profiles are simply screwed to the panels as shown, using the screws provided. For angles other than 90°, PA-5-B and PA-10-B equal angles are used, although the enclosed angle must be specified. An aesthetic alternative to steel corners would be to employ postformed elements – details available on request.



Detail 5

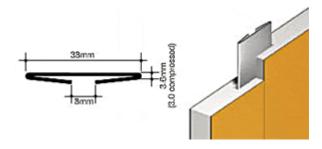
Detail 6 - Cover Strips

The system is complete when the cover strips are introduced to 'hide' profiles. Omegas are concealed with PV-03 or PV-04 cover strips, or highlighted with a PS-24 insert. PA-30-B internal angles are covered with PV-05 cover strips and PA-50-B external angles are concealed with PV-06 cover strips. All cover strips are simply pushed into position.



Detail 6

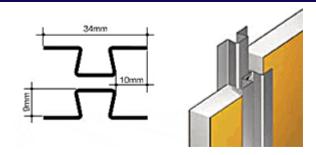




PJ-1A C Spline

Length:96" or 2440mmThickness:1/32" or 0.8mmWeight:2lbs or 0.44kg/mFinish:Galvanized sheet metal

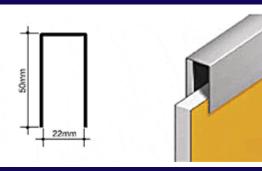
Note: Install with flat face toward decorative side of panel.



RJ-29-S Double Omega

Length:96" or 2440mmThickness:1/32" or 0.8mmWeight:3lbs or 0.66kg/mFinish:Galvanized sheet metal

Powder coated Stainless steel



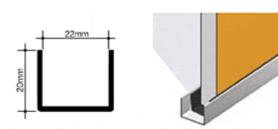
PC-17-G Top Channel

Length:96" or 2440mmThickness:1/16" or 1.5mmWeight:7.4lbs or 1.41kg/mFinish:Galvanized sheet metal
Powder coated

Stainless steel

Note: Can be installed with self-adhesive anti-vibration

gasket.



PC-15-E Bottom Channel

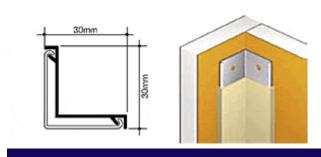
Length:96" or 2440mmThickness:1/16" or 1.5mmWeight:3.8lbs or 0.7kg/mFinish:Galvanized sheet metal

Powder coated Stainless steel

Note: Can be installed with self-adhesive anti-vibration

gasket.





PA-30-B / PV-05 Internal Angle c/w Cover Strip

 Length:
 96" or 2440mm

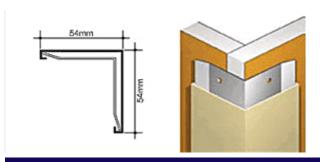
 Thickness:
 1/32" or 0.8mm

 Weight:
 2.9lbs or 0.51kg/m

Finish: White Beige

Note: Install using only No.6 x 16mm long countersunk

screws.



PA-50 -B / PV-06 External Angle c/w Cover Strip

 Length:
 96" or 2440mm

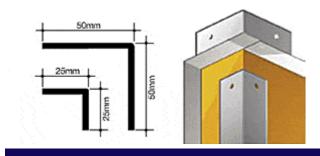
 Thickness:
 3/64" or 1.2mm

 Weight:
 1.3lbs or 1.16kg/m

Finish: White Beige

Note: Install using only No.8 x 16mm long panhead

screws.



PA-5-B / PA-10 -B Equal Angles

Length: 96" or 2440mm **Thickness:** 1/16" or 1.5mm

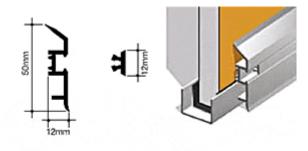
Weight: 2.7lbs or 0.56kg/m PA-5-B

5lbs or 1.15kg/m PA-10-B

Finish: Galvanized sheet metal

Powder coated Stainless steel

Note: Also available with various lengths and angles.



SK-01 / SK-02 Skirting

 Length:
 96" or 2440mm

 Thickness:
 1/16" or 1.5mm

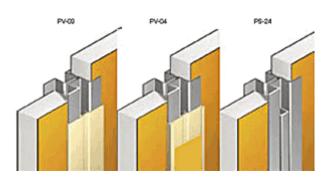
 Weight:
 1lb or 0.2kg/m

Finish: Grey

Note: Other colors available, subject to minimum order

quantities for large projects.





PV-03 / PV-04 / PS-24 Omega Cover Strips

Length: 96" or 2440mm

Thickness: 3/64" or 1.2mm PV-03/04

1/32" or 0.8mm PS-24

Weight: 0.6lbs or 0.073kg/m PV-03/04

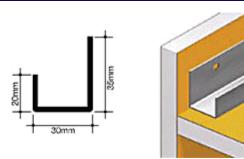
1.2lbs or 0.17kg/m PS-24 White / Beige PV-03/04

Finish: White / Beige PV-03/04 Galvanized Sheet Metal

Powder coated

Stainless steel PS-24

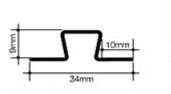
Note: PV-04 supplied with matching laminate insert.

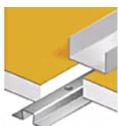


PC-30-T Perimeter Channel

Length:96" or 2440mmThickness:3/64" or 1.2mmWeight:4.2lbs or 0.94kg/mFinish:Galvanized sheet metal

Note: Supplied pre-drilled for ease of installation.





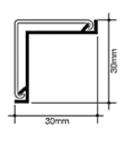
RJ-28-S Single Omega

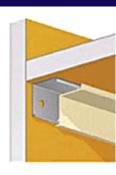
Length:96" or 2440mmThickness:1/32" or 0.8mmWeight:1.9lbs or 0.33kg/mFinish:Galvanized sheet metal

Powder coated Stainless steel

Note: Omega cover strips PV-03, PV04 or PS-24 should be

fitted after installation.





PA-30 -B / PV-05 Internal Angle c/w cover strip

 Length:
 96" or 2440mm

 Thickness:
 1/32" or 0.8mm

 Weight:
 2.9lbs or 1.51kg/m

Finish: White

Beige

Note: Install using No.6 x 16mm long (wall), No.6 x 25mm Lg

(ceiling) countersunk screws.





H400 Hanger Angle

 Length:
 9" or 228mm

 Thickness:
 1/16" or 1.5mm

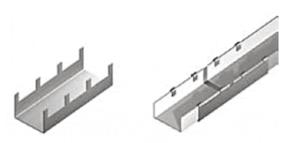
 Weight:
 1lb or 0.5kg/m

Finish: Galvanized sheet metal

Note: For voids up to 228mm. Other lengths available to suit

various void spaces. Tack weld or bolt to overhead

stiffeners.



CB-2-40 Straight Connector

Length: -

Thickness: 1/32" or 0.8mm

Weight: 0.4lb or 0.074kg each

Finish: Galvanized sheet metal

Note: Install using standard pilers.





CB-3-40 Three Way Joint

Length: -

Thickness: 1/32" or 0.8mm
Weight: 0.28lb or 0.038kg each
Finish: Galvanized sheet metal

Note: Install with flat face toward decorative side of panel.



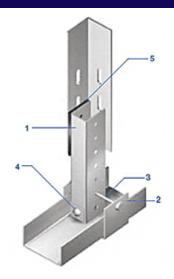


CB-4-40 Four Way Joint

Length: -

Thickness: 1/32" or 0.8mm
Weight: 0.35lb or 0.076kg each
Finish: Galvanized sheet metal
Note: Install using standard pilers.





HA-40 Adjustable Hanger Assembly

Length: Thickness: -

Weight: 1lb or 0.06kg each
Finish: Galvanized sheet metal

Note: 5. Anti-vibration gasket can be installed to minimise

possible sound transmission. Adjustable hanger comprises:

1. PC-105

Pre-drilled channel c/w 2 screws 2. HB-40 Hanger Bracket

3. SB-55 M6 Spidle Bolt c/w Nyloc Nut4. UN-15 'U' -nut c/w locking screw



EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED467421CS/001

This is to certify that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Fire Protection requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2021/1158.

MED Item N^o MED/3.11a USCG Category N^o 164.107

Description 'A' and 'B' Class divisions fire integrity: (a) 'A' Class divisions

Type A-60 class division - 19mm Thick PROMARINE (R)-450T Wall panel system

Applicant Promat Research and Technology Centre

Bormstraat 24 2830 Tisselt BELGIUM

Testing standards IMO Res. MSC.307(88)-(2010 FTP Code) - IMO MSC.1/Circ. 1435

Reference standards Chap. II-2 of SOLAS 74 Convention, as amended, RINA Rules for the certification of

Marine Equipment

Issued in Genoa on This Certificate is valid until August 26, 2021 August 25, 2026

This Certificate consists of this sheet plus an attachment

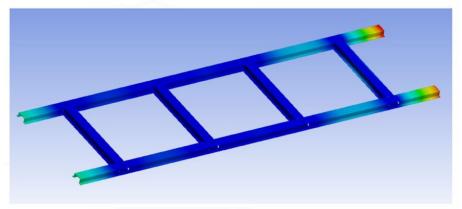
Files

Enrico Cabella RINA Services S.p.A.

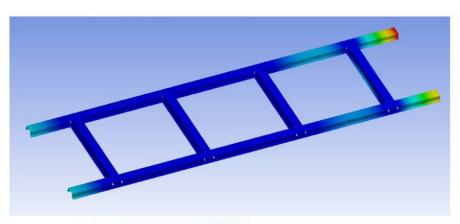


THE CONCEPT OF A FLOATING FLOOR SYSTEM



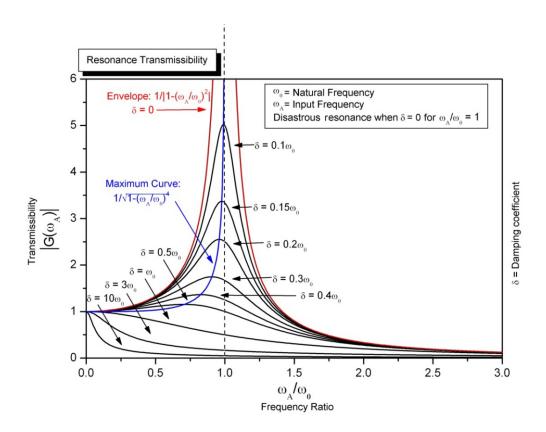


Aluminium first mode shape at 257 Hz



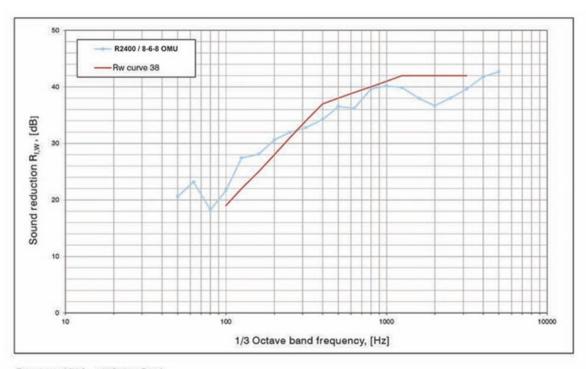
Stainless Steel first mode shape at 270 Hz











Frequency, f [Hz] 1/3 Octave Band

50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000 5000

20.6 23.2 18.2 21.7 27.4 28.1 30.6 32.0 32.8 34.2 36.5 36.2 39.6 40.2 39.9 37.9 36.7 38.0 39.6 41.8 42.7

Reduction, [dB]

Drum coustic (composition mm)

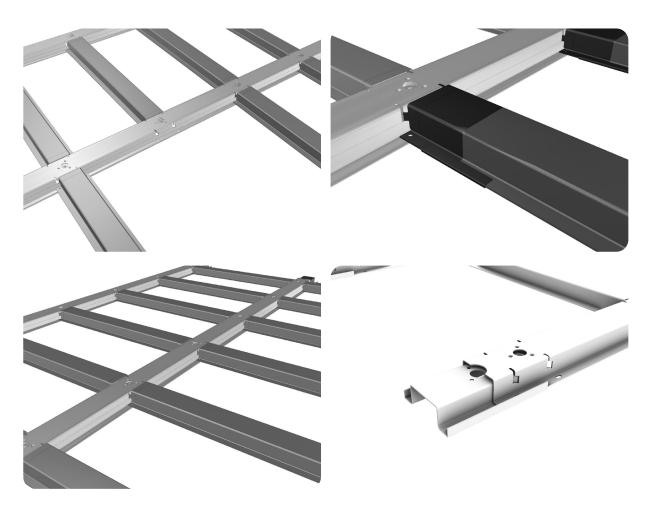


Drumarkon S loor panel comined with BS elastomer



SYSTEM FLOOR

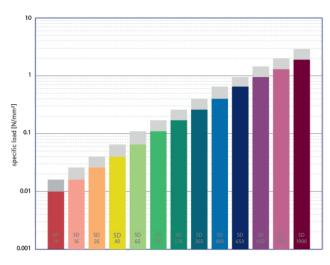
GALLERY





VIBRATION CONTROL PRODUCT LINE



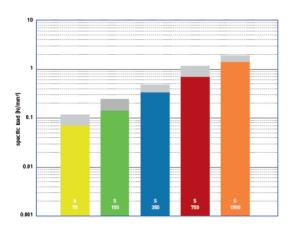




VIBRAFOAM

This product is a two-component, polyurethane based, vibration damping compound, which is used for floor applications and developed for marine and offshore industries in order to decrease the structural noise and vibration, also for meeting the market demand. It is viscoelastic, light and mostly used for main floor layer or as an under layer in various floor linings.

www.vizyonendustriyelyalitim.com/uploads/pdf/KRAIBURG_PuraSys_vibrafoam_vibradyn.pdf





VIBRADYN

It increases acoustic comfort on leveling floors of ships and comfort boats and prevents transmission of vibrations to the structure. It is defined as Class E in DIN EN ISO 11925-1.

VIBRADYN S-75, VIBRADYN S-150, VIBRADYN S-350, VIBRADYN S-750, VIBRADYN S-1500



IMPACT SOUND ABSORBENT PLYWOOD COMPOSITE PANELS







VSP-HL PANEL

ACM-CR PANEL

IMPACT SOUND ABSORBENT PLYWOOD COMPOSITE PANELS

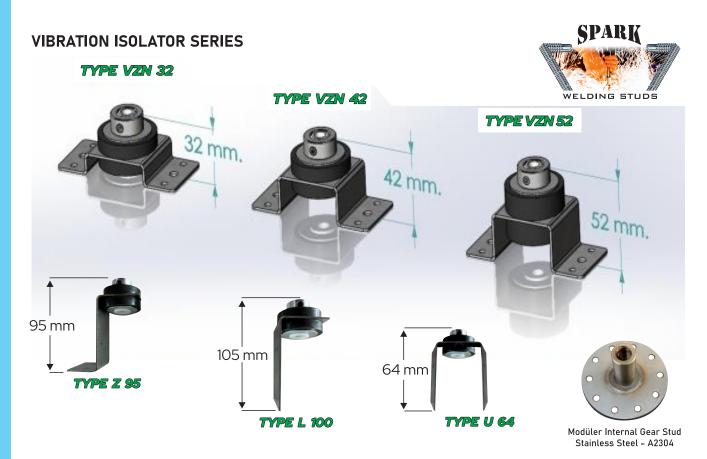
PRODUCT NAME	PANEL	BARRIER MATERIAL	BARRIER MATERIAL DENSITY	PANEL WEIGHT (KG)	NOISE REDUCTION RW CURVE
PRODUCT NAME	PANEL	BARRIER MATERIAL	BARRIER MATERIAL DENSITY	PANEL WEIGHT (KG)	NOISE REDUCTION RW CURVE @1/3 125 Hz
VSP HL 12 : VIZYON SOUND PANEL HL (4-4-4) 1.20 X 2.42 M	12 MM.	MASS LOADED HEAVY LAYER	1778 Kg./m3	33 Kg	16.2
VSP HL 18 : VİZYON SOUND PANEL HL (6-6-6) 1.20 X 2.42 M	18 MM.	MASS LOADED HEAVY LAYER	1778 Kg./m3	49 Kg	19.0
VSP HL 22 : VIZYON SOUND PANEL HL (8-6-8) 1.20 X 2.42 M	22 MM.	MASS LOADED HEAVY LAYER	1778 Kg./m3	57 Kg	19.3
ACM 650 CR 12 : VİZYON SOUND PANEL CR (4-4-4) 1.20 X 2.42 M	12 MM.	CORK RUBBER	650 Kg./m3	20,6 Kg	15.5
ACM 950 CR 18 : VİZYON SOUND PANEL CR (6-6-6) 1.20 X 2.42 M	18 MM.	CORK RUBBER	650 Kg./m3	31,50 Kg	18.1
ACM 950 CR 22 : VIZYON SOUND PANEL CR (8-6-8) 1.20 X 2.42 M	22 MM.	CORK RUBBER	650 Kg./m3	39,50 Kg	22.1
ACM 950 CR 26 : VIZYON SOUND PANEL CR (10-6-10) 1.20 X 2.42 M	26 MM.	CORK RUBBER	650 Kg./m3	43,50 Kg	22.1



FLOATING SYSTEM ACOUSTICAL SEALANT

products are used for sound and fire insulation on floating systems and cabin to cabin passages. It blocks fire, gas and smoke transmission for 4 hours and increases sound insulation.





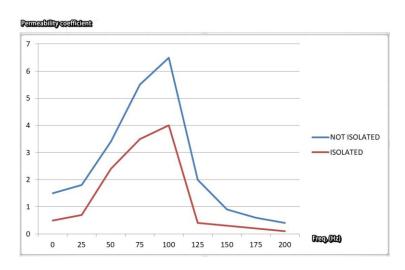
VZN-VIBRATION ISOLATORS / M8 TYPE: VZN 32, 42, 52, L, Z and U Anti vibration mount adjustable, for interiors and mechanical rooms

- Structure-borne noise damping
- Effective solutions at short distances
- Possibility to use in many positions
- Non-contact ergonomic structure
- Maximum payload : 25 KG
- Tensile strength: 2000 N

Build status : Galvanized steel (2mm) Rubber hardness : Standart 50 Shore / Or in

desired hardness

Standard Building Heights: 32 42 and 52 MM



Vibration frequency should be less than the natural frequency of the system. An increase in the stiffness of the wedges increases the natural frequency and leads to a decrease in the dimensionless frequency ratio, in addition, an increase in the damping coefficient also reduces the resonance amplitude and reduces the relative position permeability.





TechnicalDataSheet

TEROSON MS 935

February 2014



PRODUCT DESCRIPTION

TEROSON MS 935 provides the following product characteristics:

Technology	Silane-modified polymer
Product Type	Adhesive/Sealant
Components	One-component
Cure	Humidity
Application	Assembly
Appearance	White,Grey,Black
Consistency	Pasty,Thixotropic
Odor	Characteristic

TEROSON MS 935 is a gun-grade, one component sealant based on silane modified polymer, which cures by reaction with moisture to a soft elastic product. The skin formation and curing times are dependent on humidity and temperature, and the curing time also depends on joint depth. By increasing the temperature and moisture these times can be reduced; low temperature as well as low moisture retard the process. . TEROSON MS 935 is free of solvents, isocyanates, silicones and PVC, and is odorless. . It demonstrates good adhesion to many substrates and is compatible with suitable paint systems. The sealant also demonstrates good UV resistance and can therefore be used for interior and exterior applications. TEROSON MS 935 demonstrates the strength necessary for elastic bonding. TEROSON MS 935 is high viscous and sag resistant, creating a high position tack of the parts to be bonded immediately after matching, thus making a fixing of the parts to be bonded in many cases unnecessary. TEROSON MS 935 allows accelerated curing as two-component material. See separate data sheets Teroson MS Power & Speed Technology or Teroson MS 2c-Technology.

Application Areas:

TEROSON MS 935 can be used for the following applications: Elastic, anti-flutter bonding of metals and plastics (panel stiffeners, roof skins etc)TEROSON MS 935 is used in the photovoltaics industry. Elastic, bonding of wood core plywood to the metal boat deck in ship building industry Elastic, interior and/or exterior seam and joint sealing in the following areas. vehicle body, railway carriage, container and general metal construction; the equipment, electrical, plastics, air- conditioning and ventilation industries

TECHNICAL DATA Density, white, grey, black, g/cm3:

Sag resistance: Skin formation time, min*: 5 to 20 Cure rate, mm/24 hrs: approx. 3 Shore-A-hardness (ISO 868, Durometer A): Tensile strength(acc. to ISO 37,)MPa:

Elongation at break (acc. to ISO 37, speed 200 mm/min),%: Stress at 100 % elongation

(acc .to ISO 37), MPa: Volume change (acc. to DIN 52451), %:

Paint compatibility:

UV resistance: UV source:

Distance to the specimen, cm: Test period, weeks: Application temperature, °C: In service temperature range, °C:

Short exposure (up to 1 h), °C: *ISO 291 standard climate:

approx.1.5 sagging (DIN profile 15mm) approx. 50 2.8 approx. 230

approx.1.5

<2 can be painted (see painting properties) no signif. changes

Osram Vitalux 300W, dry UV 25

5 to 40 -40 to + 100

> 23°C, 50% relative air humidity

DIRECTIONS OF USE

Preliminary Statement:

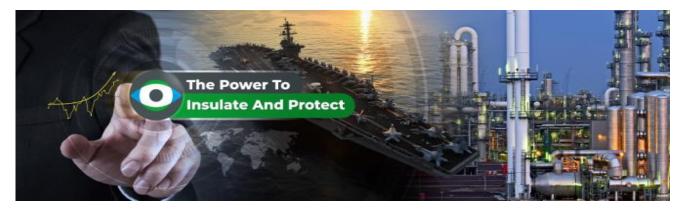
Prior to application it is necessary to read the Material Safety Data Sheet for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed.

Pre-Treatment:

The substrates must be clean, dry, oil- and grease free. Depending on the surface it can be necessary to roughen the surface or to use a primer/adhesion promoter to provide best adhesion. . manufacturing plastics, external release agents are often used; these agents must be accurately removed prior to starting bonding or sealing. Due to the different compositions of paints, especially powder paints and the large number of different substrates, application trials before use are necessary. For cleaning, Cleaner + Diluent A, FL or Teroson SB 450 from the Henkel portfolio are suitable. When bonding and sealing PMMA, e.g. Plexiglas®, and polycarbonate, e.g. Makrolon® or Lexan®, under tension, stress corrosion cracking may occur. Application trials before use are necessary. There is no adhesion to polyethylene, polypropylene and PTFE. Substrates not mentioned above should be subject to trials.







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