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TECHNICAL DATA SHEE

192IP



DECIDAMP[®] SLC

viscoelastic self-levelling vibration damping compound

Decidamp[®] SLC is a two-component, polyurethane-based, vibration damping compound used in flooring applications. It was developed to meet market requirements to reduce structural noise and vibration in the marine and offshore industries.

Decidamp[®] SLC is viscoelastic, lightweight and predominantly used as a primary deck layer or a sub-layer to a variety of floor coverings. Inherent self-levelling properties are highly suited to levelling uneven floor surfaces e.g. warped metal plates to provide a seamless flat working surface.

Structural vibration caused by engines, impact noise and footfall is converted to airborne noise, often resulting in excessive noise levels in another part of the structure. By utilising it's viscoelastic damping properties, Decidamp[®] SLC effectively reduces the spread of vibration throughout the structure.

When used between a steel/aluminium deck or any noncombustible cementitious screed, Decidamp[®] SLC performs like a constrained layer damper that significantly enhances the acoustic properties by isolating and insulating the floor coverings.

SPECIFICATIONS

Colour	Light yellow/beige
Available	Available as a 23.5 kg pack consisting of both Part A and Part B
	Part A 19.6 kg
	Part B 3.9 kg



applications

- Marine: on decks, as a constrained layer system to reduce vibration noise and structure borne noise
- Underlay for floor coverings
- Reduce impact noise in flooring applications
- Highly suited for levelling uneven surfaces e.g. warped metal plates where a seamless flat working surface is required

features

- · Tested to international marine fire standards
- Excellent acoustic and vibration damping properties
- Reduces the spread of vibration throughout the structure
- Easy-flow, self-levelling formula
- Excellent adhesion to metal, aluminium and glass composites substrates
- Solvent-free
- Reduces vibrational structural wear/tear
- Suitable for outdoor exposure
- Excellent flame resistance and ignition retardant
- Effective vibration damping performance across a broad temperature and frequency range
- Low-weight, viscoelastic
- High build rate, fast application
- Cures without shrinking or cracking



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PRODUCT SPECIFICATIONS

Product	Pack size
Decidamp® SLC	Part A 19.6 kg
Decidamp® SLC	Part B 3.9 kg

APPLICATION PROPERTIES

Material	Recommended application temperature range (°C)	Pot life at 25 ℃ (min)	Consumption (kg/m²/mm)	Mixed density (g/cm³)	Mix ratio A:B w/w
Decidamp SLC (Mixed)	10 to 35	20 to 30	1.10	1.10	5:1
Cure time Once the two components are mixed, setting will start within 30 mins at 25 °C and 35% relative humidity. High temperatures and humidity can accelerate the set time. Full cure is achieved in 24 hours. Treated floor is hardened and open to foot traffic in 10 hours.					
Storage Store between 10 to 45 °C. Shelf life is 24 months from receiving goods.					

MATERIAL PROPERTIES

Test method	Property	Report	Results	
*IMO FTP Annex 1 Part 5	Surface flammability	227240		
*IMO FTP Annex 2	Smoke and toxicity	557240	Complian for primary dark	
MED B	EC Type Certificate (Module B) for Marine Equipment Directive	MEDB00007RN	coverings and flooring application. USCG type approval granted.	
MED D	EC Type Certificate (Module D) for Marine Equipment Directive	MEDD000028J		
*DNV-GL Type approval & transportation Canada type approval to requirements of TP 14612	Transportation Canada & DNV-GL type approval	F-21137	Complies for offshore standards, SOLAS and recognised by Transport Canada	

* When tested in conjunction with cementitious layer such as Weber.floor 4660. (Refer Information page 'Weber.Floor4660' on our website, for more information on cementitious compound for secondary layer)

ACOUSTIC PERFORMANCE



Tested to ISO 6721-5:1996 Report Number: 26924CD

How to read a reduced frequency nomogram:

- 1. Start by selecting the frequency (Hz) on the right-hand vertical axis.
- Vertical XXS.
 Follow this value horizontally to the left to where the diagonal temperature isotherm intersects.
 Draw a vertical line through the frequency and isotherm intersection, find the point where this line isotherm intersection.
- intersects the modulus and loss factor curves. 4. Draw horizontal lines from these points to the left-
- hand vertical axis to read the values.

Note: Performance given for Decidamp[®] SLC only.





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SYSTEM ACOUSTIC PERFORMANCE



Report Number: 15.4165

Measured in accordance with ISO 10140-2. This data represents the sound insulation of the deck system and is used for evaluating the noise reduction between adjoining spaces.



Report Number: 15.4165

Measured in accordance with ISO 10140-3. This data represents the impact sound pressure level in a reverberant room below the deck system and is used for evaluating the reduction of noise from walking or other human activities.



	L Docidamp SI(⊥
(Hz)	Weber 4660 System
50	32.4
63	30.8
80	30.9
100	32.1
125	35.6
160	36.9
200	38.4
250	41.1
315	42.8
400	43.4
500	43.3
630	43.7
800	44.6
1000	45.8
1250	47.7
1600	50.1
2000	57.4
2500	54.5
2300	575
4000	61.2
	63.0
STC	05.9
Dur	40
nw .	40
C+r	-1
	· ·
Frequency	
(Hz)	Weber 4660 System
(Hz) 50	Weber 4660 System
(Hz) 63	Decidamp SLC + Weber 4660 System 57.9 62.5
(Hz) 50 63 80	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9
(Hz) 50 63 80 100	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5
(Hz) 50 63 80 100 125	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9
(Hz) 50 63 80 100 125 160	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9
(Hz) 50 63 80 100 125 160 200	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9
(Hz) 50 63 80 100 125 160 200 250	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2
(Hz) 50 63 80 100 125 160 200 250 315	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4
(Hz) 50 63 80 100 125 160 200 250 315 400	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4
(Hz) 50 63 80 100 125 160 200 250 315 400 500	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 82.1
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 82.1 81.9
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 82.1 81.9 81.8
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 200	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 82.1 81.9 81.8
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 250	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 82.1 81.8 81.8 81.8 81.3
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 81.4 81.8 81.8 81.3 80.0
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 82.1 81.9 81.8 81.8 81.3 80.0 77.4
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2250 315 400 500 630 800 1000 125 160 200 250 315 400 500 630 800 100 125 160 200 250 315 400 500 630 800 100 125 160 200 250 315 400 500 630 800 100 125 15 400 500 630 800 100 125 15 400 500 630 800 100 125 15 400 500 630 800 100 1250 160 100 125 15 400 100 125 15 100 125 15 15 100 100 15 15 100 100 1	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 82.1 81.9 81.8 81.8 81.3 80.0 77.4 74.1
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000 2000 2500 3150 4000 2000 2500 3150 4000 5000 2500 3150 4000 5000 100 100 100 100 100 100	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 82.1 81.9 81.8 81.3 80.0 77.4 74.1
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000 2000 2500 3150 4000 2000 2500 3150 4000 2000 2500 3150 4000 2000 2500 315 4000 2000 200 200 200 200 200 2	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 82.1 81.8 81.8 81.8 81.3 80.0 77.4 74.1 87 -11
(Hz) 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 2000 2500 3150 4000 2000 2500 3150 4000 2000 2500 3150 4000 2000 2500 3150 4000 2000 2500 3150 4000 2000 2500 315 400 2000 200 200 200 200 200 20	Decidamp SLC + Weber 4660 System 57.9 62.5 63.9 65.5 66.9 68.9 69.9 73.2 74.4 76.4 78.5 80.1 81.4 81.9 81.8 81.8 81.8 81.3 80.0 77.4 77.4 77.4 87 -11 10

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SYSTEM ACOUSTIC PERFORMANCE

Frequency (Hz)	Decidamp SLC + Weber 4660 System
50	7.3
63	10.2
80	12.9
100	11.2
125	12.1
160	19.8
200	17.7
250	19.6
315	19.3
400	19.9
500	20.3
630	19.5
800	19.9
1000	23.8
1250	19.8
1600	20.2
2000	22.2
2500	22.6
3150	21.2
4000	20.1
5000	23.3



Report Number: 15.4165

This data describes the difference between the velocity level measured on the bare steel deck before the installation of the floor covering, and the velocity level measured after on top of the applied system. The insertion loss values are used for evaluating the reduction of the structure-borne velocity level as a result of the floor covering.

Frequency (Hz)	Decidamp SLC + Weber 4660 System
50	5.6
63	1.7
80	2.0
100	4.1
125	4.8
160	6.6
200	8.1
250	11.7
315	13.3
400	12.5
500	14.2
630	12.9
800	13.4
1000	15.5
1250	16.0
1600	19.4
2000	20.4
2500	19.1
3150	19.0
4000	19.6
5000	20.6



Report Number: 15.4165

This data represents the difference between the sound pressure level measured in the receiving room before installation of the floor covering and the sound pressure level measured after applying the floor covering. The insertion loss values are used for evaluating the reduction of the structure-borne sound pressure level caused by the floor covering.



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SYSTEM ACOUSTIC PERFORMANCE

Frequency (Hz)	Decidamp SLC + Weber 4660 System
63	-4.6
80	-8.3
100	-6.0
125	-7.0
160	-4.8
200	-1.7
250	-2.6
315	-4.3
400	-2.2
500	-1.7
630	1.2
800	2.2
1000	5.0
1250	3.9
1600	5.0
2000	5.4
2500	6.1
3150	4.1
4000	0.8
5000	1.5



Report Number: 15.4165

The radiation index is measured according to its equation of definition using an electrodynamic vibration exciter. It describes the ability of a vibrating floor to radiate sound. Thus, a high radiation index, in general terms, means a high noise level and vise versa. In practice, however, the noise level is determined by a combination of the velocity level and the radiation index. This relationship can be used for assessing the total noise level in a space when the velocity level is known.

For further information and contact details, please visit our website pyroteknc.com Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nathing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See pyrotekaccom/disclaimer.

