

PARAFON Decibel Mass



Certification Number

0809-CPR-1013 / Eurofins Expert Services Ltd, P.O. Box 1001, FI-02044 VTT, Finland

Short Description

PARAFON Decibel Mass is well tested and documented in the field a PARAFON classic with plaster as a sound insulating component and non-combustible stone wool for sound absorption. If for whatever reason you want to avoid insulating with Decibel Barrier in the plenum, the solution is to use Decibel Mass in combination with the PARAFON Bass sound absorber which is placed above the suspended ceiling, which provides sound insulation via the suspended ceiling of up to $D_{n,f,w}$ 48 dB.

Usage Conditions

May be used continuously in 70 % relative humidity at a temperature of 25 °C.

Dimensions

Dimensions		
Thickness	Width x Length	Weight
Edge A:		
53 mm	600 x 600 mm	14 kg/m ²
.		
Edge E24:		
53 mm	600 x 600 mm	14 kg/m ²

Packaging

Package Type

Pallet

Fire Properties

Reaction to Fire		
Property	Value	According to

Reaction to Fire, Euroclass	A2 - s1, d0	EN 13964:2014 (EN 13501-1)
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Other Fire Properties

Property	Value	According to
Combustibility	Base product non-combustible	EN ISO 1182

Sound Properties

Acoustic Absorption Index

Property	Value	According to
Sound Absorption a_w , Construction Depth 200 mm	0,80 (H)	EN 13964:2014 (EN ISO 354 / EN ISO 11654)

Property	Value	According to
Practical Sound Absorption Class	B	EN 13964:2014 (EN ISO 354 / EN ISO 11654)

Sound reduction: R_w 31 dB (SS-EN ISO 10140), $D_{n,f,w}$ 43 dB (SS-EN ISO 10848)

Mechanical Properties

Tensile/Flexural Strength

Property	Value	According to
Flexural Tensile Strength	NPD	EN 13964:2014

Other Mechanical Properties

Property	Value	According to
Shatter Properties	NPD	EN 13964:2014

Emissions

Release of Dangerous Substances to the Indoor Environment

Property	Value	According to
Release of Formaldehyde	E1	EN 13964:2014
Release of Asbestos	No content of asbestos	EN 13964:2014

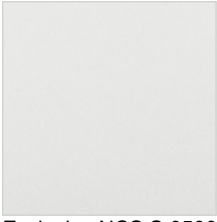
Durability

Durability of Reaction to Fire Against Heat, Weathering, The fire performance of mineral wool does not deteriorate with time. The Ageing/Degradation Euroclass classification of product is related to the organic content, which cannot increase with time.

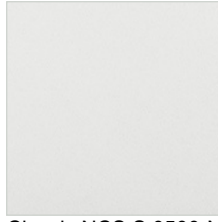
Facings

Facing Material	White glass fiber surface layer. Backside: Gypsum board.
Gloss Factor	Exclusive: 2 Classic: 2
Light Reflectance	Exclusive: ~85 % Classic: ~83 %

Colours



Exclusive NCS S 0500-N



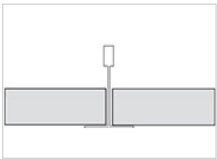
Classic NCS S 0500-N

Edges

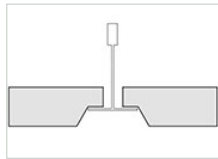
Treatment of Edges

Edge A are thin spray painted, Edge E painted.

Edge Variations



A



E24

Installation

Installation with Armstrong Prelude suspension system.

Suspension Height

Installation with exposed suspension system

Tile thickness	Edge A	Edge E
Decibel Light (40 mm)	160 mm	170 mm
Decibel Mute (55 mm)	200 mm	
Decibel Mass (55 mm)	200 mm	210 mm

Minimum suspension height for removal
Maintenance

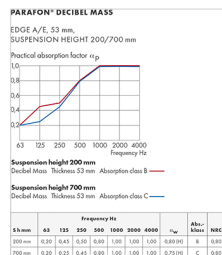
Using a soft brush, by vacuum cleaning or by wiping with a damp cloth or sponge.

Disposal and Recycling

May be used as thermal insulation or taken to a dump. No restrictions.

Sound Absorption Curves

The sound absorption is measured according to ISO 354. The absorption values and classes are calculated according to ISO 11654. NRC according to ASTM C 423. Direct sound insulation (R_w) is measured according to SS-EN ISO 10140 and calculated according to SS-EN ISO 717-1. Sound insulation via suspended ceiling ($D_{n,f,w}$) is measured according to SS-EN ISO 10848 and calculated according to SS-EN ISO 717-1.



PRODUCT PARAFON	SOUND INSULATION	
	Direct sound insulation R_w (dB)	Sound insulation via suspended ceiling $R_{w,c}$ (dB)
Decibel Light 40 mm	21	35
Decibel Mute 55 mm	24	42
Decibel Mass 55 mm	21	42

The values are measured and/or calculated with full covering ceilings. Sound insulation values apply to edge A.

PRODUCT PARAFON	SOUND INSULATION VIA SUSPENDED CEILING, $D_{n,f,w}$ (dB)	
	With single Decibel Barrier $R_{w,c}$ 21 dB	With double Decibel Barrier $R_{w,c}$ 36 dB
Decibel Light 40 mm	48*	52*
Decibel Mute 55 mm	52/52*	54/54*
Decibel Mass 55 mm	52*	54*

The values are measured and/or calculated with full covering ceilings. Sound insulation values apply to edge A. *Calculated values.

PRODUCT PARAFON	SOUND INSULATION VIA SUSPENDED CEILING, $D_{n,f,w}$ (dB)	
	With PARAFON Bass along wall 1200 mm	With PARAFON Bass whole covering
Decibel Light 40 mm	42	44
Decibel Mute 55 mm	-	-
Decibel Mass 55 mm	46	48

The values are measured and/or calculated with full covering ceilings. Sound insulation values apply to edge A.

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