

# Parafon® Decibel Mass



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.

## Product Description

Facing material: White glass fiber surface layer.

Backside: Gypsum board.

Treatment of edges: Edge A are thin spray painted, Edge E painted.

## Edges & Dimensions



Thickness	Width x Length (modular size)	Weight kg/m <sup>2</sup>	Min. suspension height for dismounting
<b>A24</b>			
53	600 x 600 mm	14,0	200
	600 x 1200 mm		
<b>E24</b>			
53	600 x 600 mm	14	210

# Performances

## Reaction to fire



A2-s1,d0

According to: EN 13964:2014 (EN 13501-1)

## Fire resistance



The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of products is related to the organic content, which cannot increase with time.

## Cleaning



May be cleaned using a soft brush, by vacuum cleaning or by wiping with a damp cloth or sponge.

## Humidity and sag resistance



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

## Visual appearance



Gloss factor: ~2

## Light reflectance



~85%

## Colours



Exclusive white, NCS S 0500-N

Colour codes show the nearest NCS value

## Environment & sustainability



Fully recyclable stone wool

## Indoor environment



Danish Indoor Climate Labelling class 2.



## Installation



Installation with T24 suspension system.

## Sound absorption



The sound absorption has been measured according to ISO 354. The absorption values and classes are calculated according to ISO 11654. NRC according to ASTM C 423.

## Room to room sound insulation



$D_{n,f,w} = 43$  dB

According to: SS-EN ISO 10848 / SS-EN ISO 717-1

$D_{n,f,w}$  with Parafon Bass along wall 1200 mm = 46 dB

$D_{n,f,w}$  with Parafon Bass whole covering = 48 dB

$D_{n,f,w}$  with single Parafon Decibel Barrier  $R_w$  21 dB = 52\* dB

$D_{n,f,w}$  with double Parafon Decibel Barrier  $R_w$  36 dB = 54\* dB

*The values are measured and/or calculated with full covering ceilings.*

*Sound insulation values apply to edge A.*

*\*Calculated values*

## Direct sound insulation

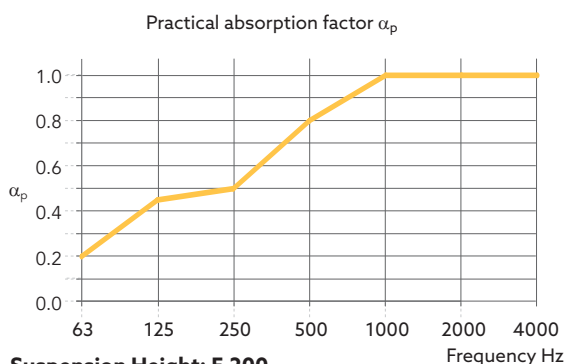


$R_w = 31$  dB

According to: SS-EN ISO 10140 / SS-EN ISO 717-1

### Parafon Decibel Mass

Edge E, A24: 53 mm.  
Suspension Height: E-200



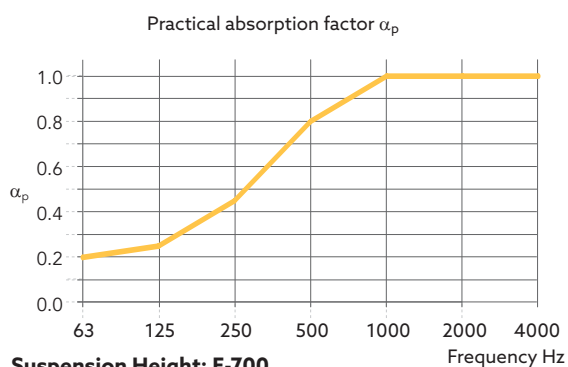
**Suspension Height: E-200**

Thickness: 53 mm Absorption Class: B

Thickness:	Frequency Hz							$\alpha_w$	Absorption Class:	NRC
	63	125	250	500	1000	2000	4000			
53 mm	0.20	0.45	0.50	0.80	1.00	1.00	1.00	0.80(H)	B	0.80

### Parafon Decibel Mass

Edge E, A24: 53 mm.  
Suspension Height: E-700



**Suspension Height: E-700**

Thickness: 53 mm Absorption Class: C

Thickness:	Frequency Hz							$\alpha_w$	Absorption Class:	NRC
	63	125	250	500	1000	2000	4000			
53 mm	0.20	0.25	0.45	0.80	1.00	1.00	1.00	0.75(H)	C	0.80

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