

Parafon® Decibel Mass



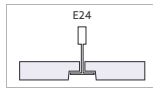
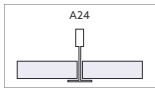
Parafon Decibel Mass is well tested and documented in the field; a Parafon classic with plaster as a sound insulating component and non-combustible stone wool for sound absorption. If for whatever reason you want to avoid insulating with Decibel Barrier in the plenum, the solution is to use Decibel Mass 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 ²	Min. suspension height for dismounting
A24			
53	600 x 600 mm	14,0	200
	600 x 1200 mm		
E24			
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 product is related to the organic content, which cannot increase with time.

Cleaning



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:
Exclusive: 2
Classic: 2

Light reflectance



Exclusive: ~85 %
Classic: ~83%

Colours



Exclusive White, NCS S 0500-N
Classic White, NCS S 0500-N

Colour codes show the nearest NCS value

Environment & sustainability



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

Indoor environment



M1

According to: Finnish classification

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

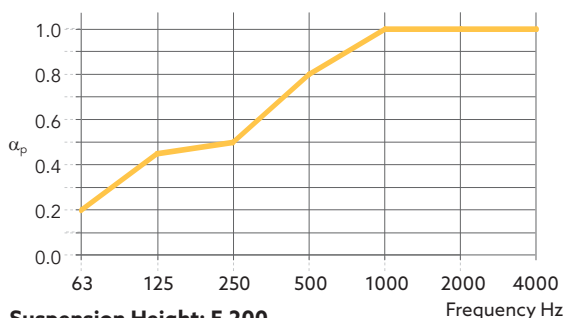


$R_w = 31$ dB

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

Edges: A, E, 53 mm,
Suspension Height: E-200

Practical absorption factor α_p



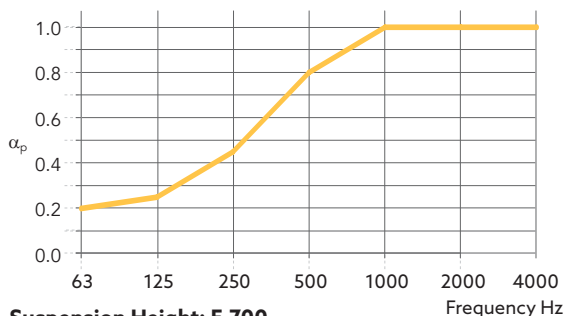
Suspension Height: E-200

Thickness: 53 mm Absorption Class: B

Thickness:	Frequency Hz							α_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

Edges: A, E, 53 mm,
Suspension Height: E-700

Practical absorption factor α_p



Suspension Height: E-700

Thickness: 53 mm Absorption Class: C

Thickness:	Frequency Hz							α_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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