

Parafon® Royal



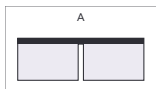
Parafon Royal is a unique and exclusive acoustic tile for direct installation on ceilings using adhesive. All visible edges are covered with coloured glass-fibre felt, which gives a clean and elegant appearance and makes Parafon Royal useful for sound absorption even in aesthetically sensitive environments. Can be mounted whole covering, in a group or individually, and provide quick improvement of problematic acoustic environments such as e.g. stairwells, laundry rooms, assembly halls and canteens.

Product Description

Facing material: Pre painted glass fiber surface layer. Backside: thin glass fiber tissue.

Treatment of edges: Covered edges. Same coating as visible surface.

Edges & Dimensions



Thickness	Width x Length (modular size)	Weight kg/m ²	Min. suspension height for dismounting
A			
30	600 x 1200 mm	2,6	Not demountable
40		3,3	
50		4,2	

Product size = Modular size - 8 mm

Performances

Reaction to fire



A2-s1,d0
(White, Cement)
A2-s2,d0 (Metal)
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 95 % relative humidity at a temperature of 30 °C, occasionally also at 100 % and 40 °C

Visual appearance



Gloss factor:
White: ~ 2
Cement: ~ 1

Light reflectance



White: ~ 83%
Cement: ~ 54%

Colours



White, NCS S 0500-N
Cement, NCS S 2002-B
Metal, NCS S 3005-R80B

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



Mounting directly to the substrate by gluing, recommended to leave a 8 mm gap between the tiles.

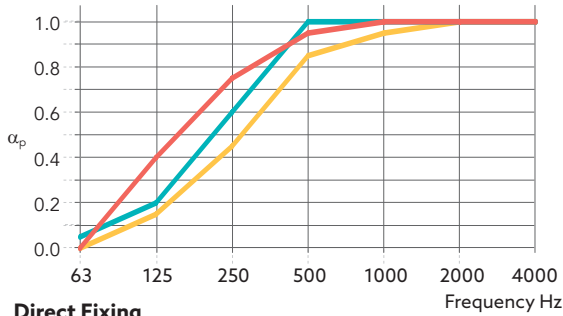
Sound absorption



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.

Edges: A, 30 mm, 40 mm, 50 mm,
Direct Fixing

Practical absorption factor α_p



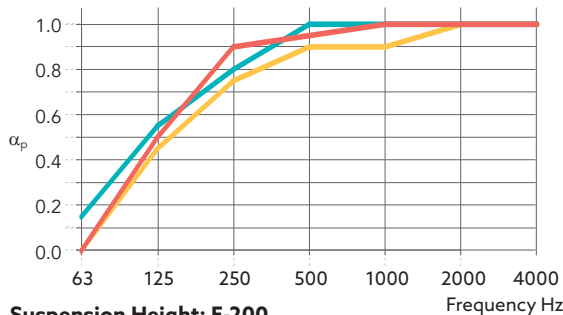
Direct Fixing

Thickness: 30 mm Absorption Class: C —
 Thickness: 40 mm Absorption Class: A —
 Thickness: 50 mm Absorption Class: A —

Thickness:	Frequency Hz							α_w	Absorption Class:	NRC
	63	125	250	500	1000	2000	4000			
30 mm	-	0.15	0.45	0.85	0.95	1.00	1.00	0.75	C	-
40 mm	0.05	0.20	0.60	1.00	1.00	1.00	1.00	0.90	A	0.95
50 mm	-	0.40	0.75	0.95	1.00	1.00	1.00	1.00	A	-

Edges: A, 30 mm, 40 mm, 50 mm,
Suspension Height: E-200

Practical absorption factor α_p



Suspension Height: E-200

Thickness: 30 mm Absorption Class: A —
 Thickness: 40 mm Absorption Class: A —
 Thickness: 50 mm Absorption Class: A —

Thickness:	Frequency Hz							α_w	Absorption Class:	NRC
	63	125	250	500	1000	2000	4000			
30 mm	-	0.45	0.75	0.90	0.90	1.00	1.00	0.95	A	-
40 mm	0.15	0.55	0.80	1.00	1.00	1.00	1.00	1.00	A	1.00
50 mm	-	0.50	0.90	0.95	1.00	1.00	1.00	1.00	A	-

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