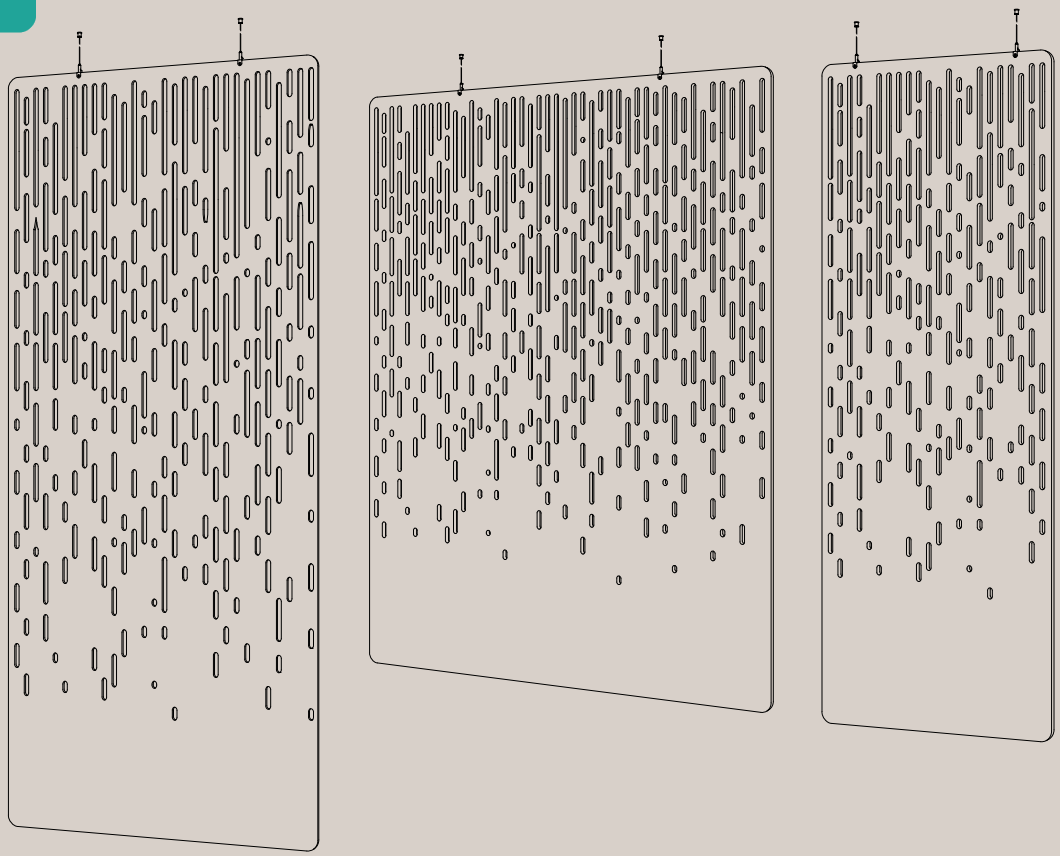
IMPACT ACOUSTIC®

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Matrix

Hanging Division

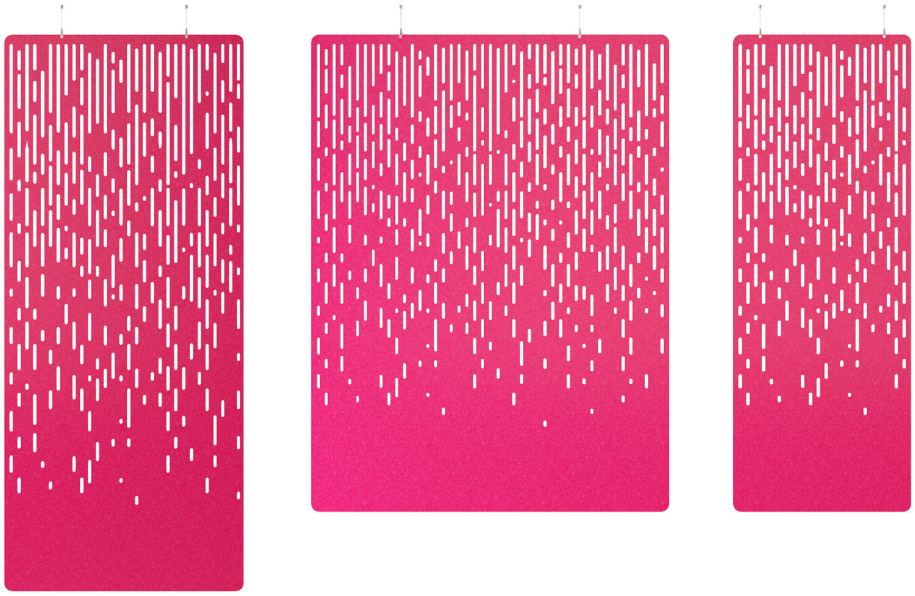
741.12.21.000.00
741.24.21.000.00
741.24.22.000.00

TECHNICAL DATA SHEET

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Matrix Hanging Division

General Information



Data

Applicable article numbers

TALL 741.12.21.000.00 **LARGE** 741.24.21.000.00 **SMALL** 741.24.22.000.00

Dimensions[1]

Height	2800 mm	110″	2400 mm	95″	2400 mm	95″
Width	1200 mm	47″	1800 mm	71″	900 mm	35″
Thickness	12 mm	0.5″	24 mm	0.9″	24 mm	0.9″

Material

Panel	100% PET (60% post-consumer) in 32 colors
Suspension Kit	Stainless steel

Extended document available

Weight[2]

PET Panel 24mm (0.95″)	4 kg/m2	0.82 lbs/sq.ft
PET Panel 12mm (0.47″)	2.4 kg/m2	0.49 lbs/sq.ft

Included

Panel

Suspension Kit

Installation guide

Warranty 2 years[3]

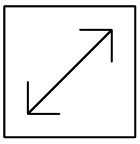
1 - all dimensions are nominal 2 - all weight values are nominal 3 - Impact Acoustic warranty terms apply

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Specification Guide

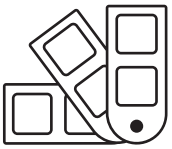
Ensure you make the perfect choice by choosing our solutions for your next project. To get started, simply define some basic information and constraints about your space. Then explore our range of standard solutions or contact us directly for a more in-depth discussion of personalised customized options.

1 Specify your product:



Size

page 4-6



Color

page 7



Pattern

page 5-6

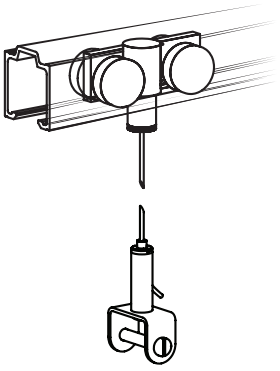
2 Verify installation method:



Suspension Kit
12mm



Suspension Kit
24mm

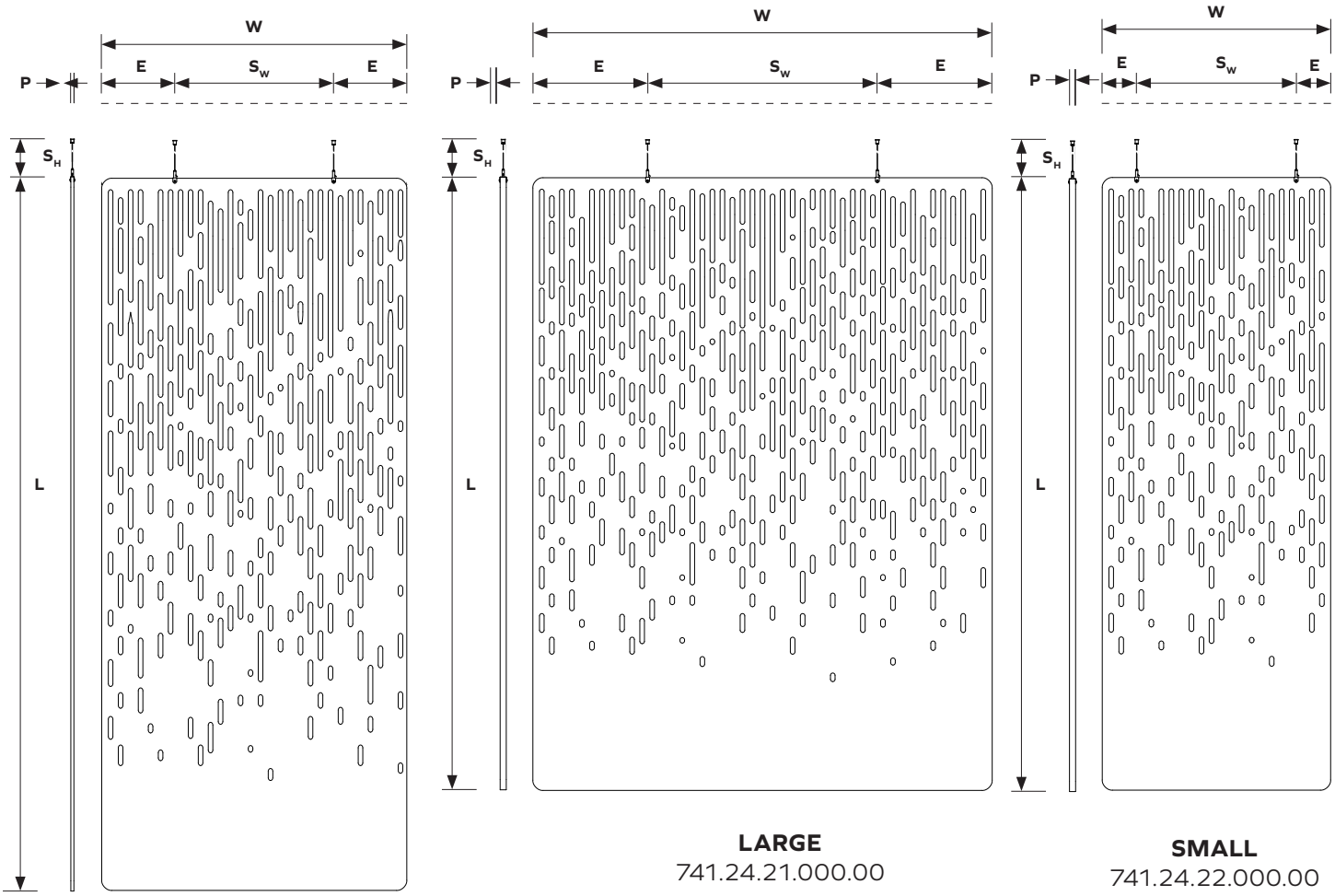


Curtain Slider
12mm and 24mm

Matrix Hanging Division
Geometry Information

Custom solutions available

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TALL
741.12.21.000.00

LARGE
741.24.21.000.00

SMALL
741.24.22.000.00

Dimensions		TALL 741.12.21.000.00	LARGE 741.24.21.000.00	SMALL 741.24.22.000.00
W	Total width	1200 mm / 47.24”	1800 mm / 70.87”	900 mm / 35.43”
L	Total height	2800 mm / 110.24”	2400 mm / 94.49”	2400 mm / 94.49”
E	Edge dimensions	288 mm / 11.34”	288 mm / 17.72”	135 mm / 5.31”
P	PET material thickness	12 mm / 0.47”	24 mm / 0.94”	24 mm / 0.94”
S_W	Support spacing width	624 mm / 24.57”	900 mm / 35.43”	625 mm / 24.61”
S_H	Support spacing height	1000 - 1500 mm / 39.37 - 59.06”		

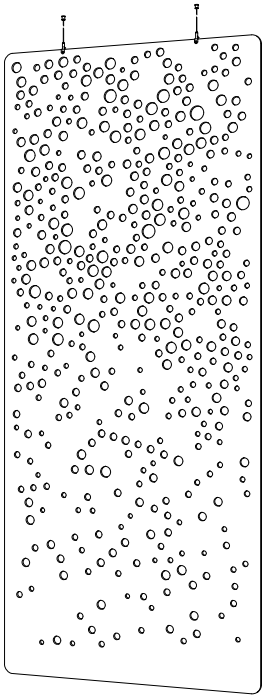
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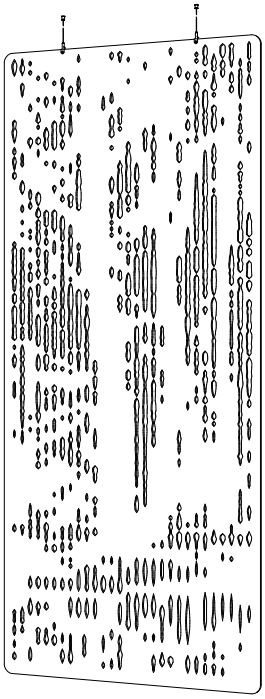
Other perforations available

Please note that all patterns are available in three sizes. This size is used as an example.

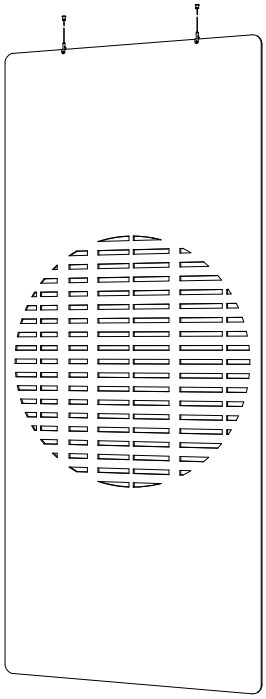
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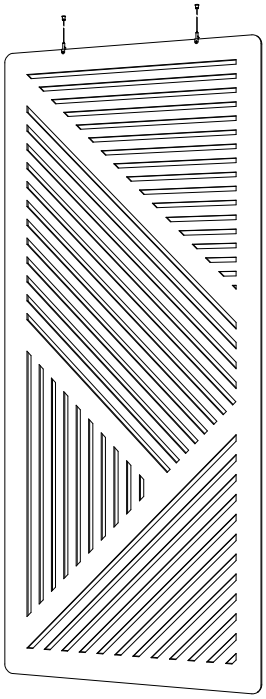
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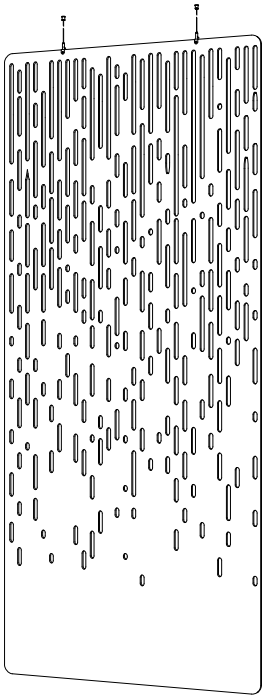
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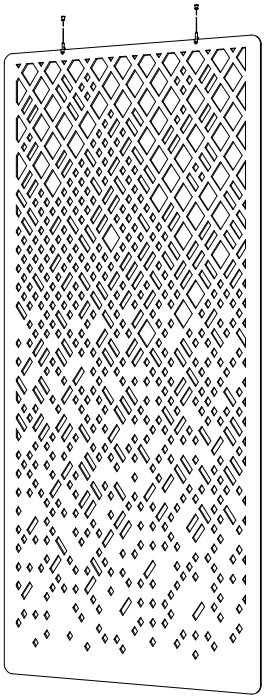
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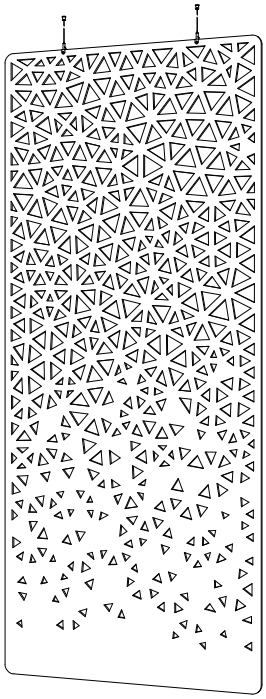
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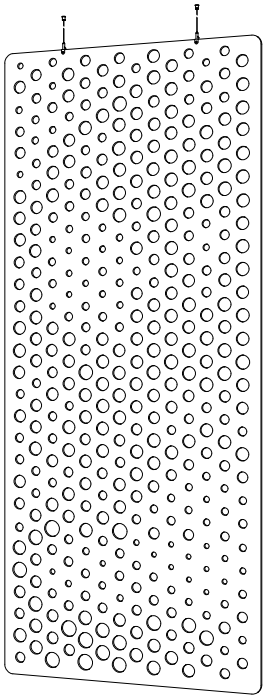
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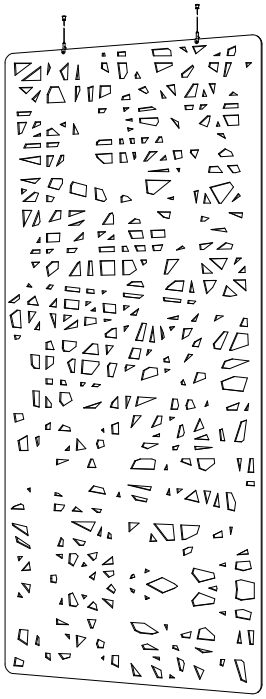
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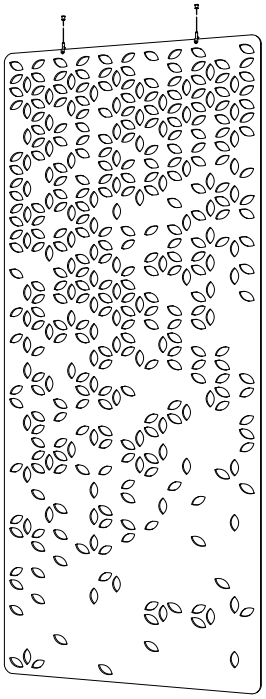
Other perforations available

Please note that all patterns are available in three sizes. This size is used as an example.

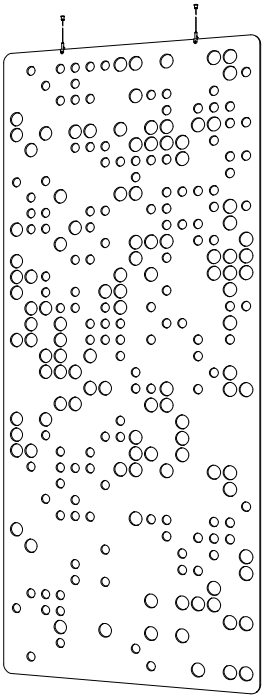
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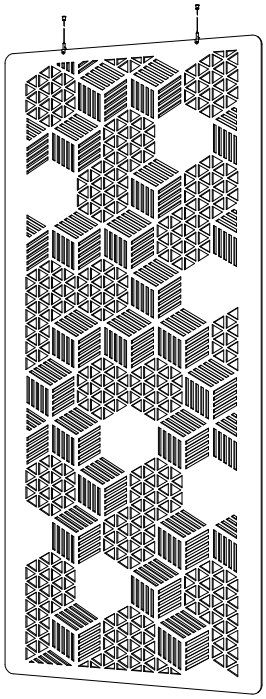
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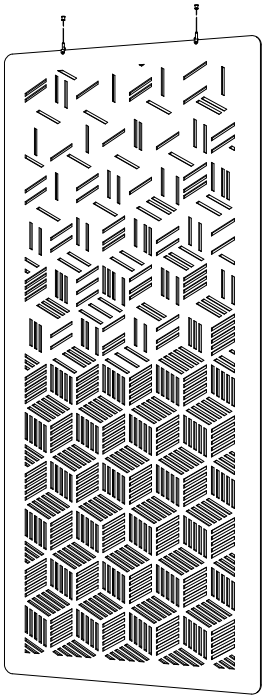
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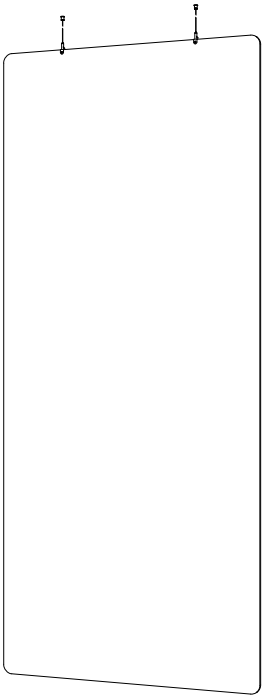
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741.12.36.000.00



741.12.90.000.00



ARCHISONIC®
Colors

Material brochure available

Name	Snow White	Milk	Cloud	Smoke	Ground	Charcoal	Slate	Raven
Color Code	**500**	**404**	**103**	**442**	**108**	**542**	**444**	**550**
NCS Code	S 0300-N	S 0502-Y	S 1002-B	S 3005-R80B	S 5005-Y20R	S 7502-B	S 4500-N	S 8500-N

Name	Nordic Pine	Grove	Moss	Spearmint	Ice Blue	Succulent	Deap Sea	Marine Blue
Color Code	**311**	**317**	**439**	**706**	**304**	**712**	**918**	**864**
NCS Code	S 5030-G10Y	S 7020-G30Y	S 2040-G40Y	S 1010-B90G	S 0510-B	S 3020-B30G	S 5020-R90B	S 4050-R70B

Name	Linen	Shell Pink	Jute	Warm Stone	Terracotta	Soft Coral	Honeycomb	Sunshine
Color Code	**107**	**102**	**920**	**105**	**239**	**516**	**139**	**846**
NCS Code	S 1505-Y30R	S 0510-R30B	S 3010-Y30R	S 3010-Y50R	S 4040-Y70R	S 2020-Y90R	S 2050-Y20R	S 1040-Y10R

Name	Garnet	Hot Pink	Poster Red	Electric Orange	Winter Sky	Pacific Ocean	Midnight	Grape
Color Code	**724**	**140**	**662**	**464**	**311**	**311**	**810**	**540**
NCS Code	S 5040-R10B	S 2060-R20B	S 1080-R	S 0580-Y70R	S 5030-G10Y	S 5030-G10Y	S 7020-R70B	**S 5040-R40B**

These NCS codes are the closest visual match available and may not be exact to blended fibres.

ARCHISONIC®

Colors

Experience our ARCHISONIC® Felt material with a stunning selection of 32 colors across 8 distinct families, thoughtfully curated by *Colour Hive* in London. Effortlessly combine colors harmoniously to suit your preferences. Discover more in our Materials brochure and order your free sample box today.

Color fastness

Class 6

ISO 105-B02:A1

Order a free sample box



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ARCHISONIC®
Material Specification

Product Name	Archisonic® Felt	
Content	100% PET (60% certified post-consumer content)	
Thickness[1]	12mm (0.47")	24mm (0.94")
Max. Size	1200x2800mm (47"x110")	1800x2400mm (70"x94")
Acoustic[2]	**ASTM:** NRC=0.6 **ISO**: αw=0.65	**ASTM**: NRC=0.9 **ISO**: αw=0.95
Density[1]	2400 g/m² (0.49 lbs/ sqft)	4000 g/m² (0.82 lbs/sqft)
Color Fastness	**Class 6** ISO 105-B02:A1	
Color	**32 colors** (see Archisonic® Felt Color page for more information)	
Maintenance	For daily cleaning we recommend alcohol solution (75%), e.g. Pantasept. In case of contamination by dust or fluff, use feather duster or a regular vacuum cleaner. For heavy dirt, treat the material with hydrogen peroxide.	
Lead time[3]	21 days	
Fire Rating	DIN EN 13501-1: **B-s1, d0**	ASTM E84 **Class A**
VOC Emission	**A+** 28 Days French Regulation	ASTM E84 **Pass**
Certifications	Declare label, Cradle to Cradle, UL Environmental Product Declaration, Member of US Green Building Council, Ecobau 1st Priority, Climmate-KIC, VOC emissions in LEED EQ credit (low-emitting products), Breeam, SCS Recycled Content	
Durability	Contract	

1 - all values are nominal 2 - measured with 300mm air cavity 3 - depending on the location and type of product

Climate-KIC is supported by the EIT, a body of the European Union

MINIMUM 60% RECYCLED CONTENT POST-CONSUMER

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Matrix Hanging Division
Acoustic Performance

University of Stuttgart
Germany

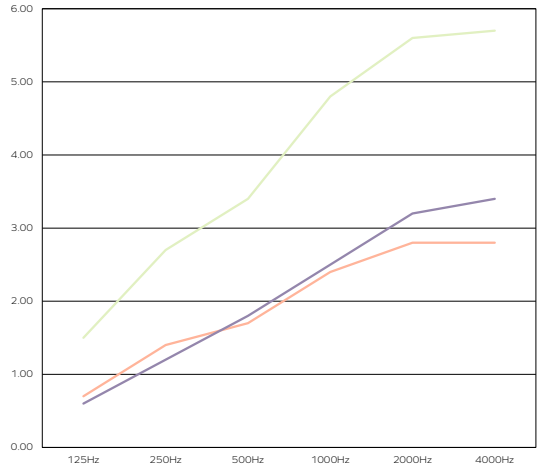
ISO Standards

ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ISO 20189:2018	Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound reduction of elements based on laboratory measurements

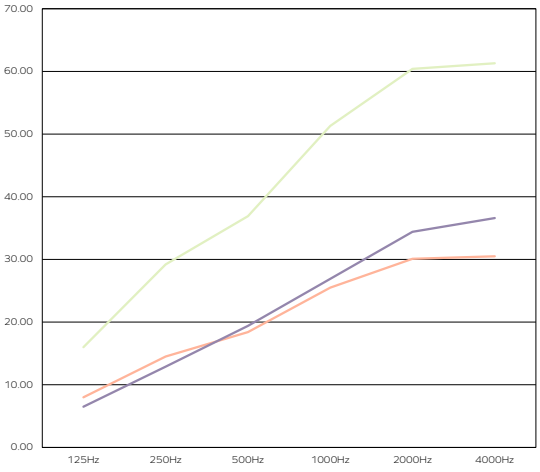
Equivalent ASTM standards

ASTM C423-17	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ASTM E795-16	Standard Practices for Mounting Test Specimens During Sound Absorption Tests

ISO	**Equivalent Absorption Surface Area for the object (Aeq) (m^2)**		
Frequency (Hz)	**Tall**	**Large**	**Small**
125	0.6	1.5	0.7
250	1.2	2.7	1.4
500	1.8	3.4	1.7
1000	2.5	4.8	2.4
2000	3.2	5.6	2.8
4000	3.4	5.7	2.8



ASTM	**Sabins (ft^2)**		
Frequency (Hz)	**Tall**	**Large**	**Small**
125	6.5	16.0	8.0
250	12.9	29.2	14.5
500	19.4	36.9	18.4
1000	26.9	51.3	25.5
2000	34.4	60.4	30.1
4000	36.6	61.3	30.5



Matrix (Tall)
Matrix (Large)
Matrix (Small)

"Just like sound, lighting appeals to the senses and is a driver for a good work environment and contributes to your health and well-being and should be synced with your circadian rhythm. However, if every evening you're the last person to switch off the lights in the office, you might have a tag on your back saying "overachiever".

– Daniel Verlooven

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Hanging Divisions

Reference Projects







