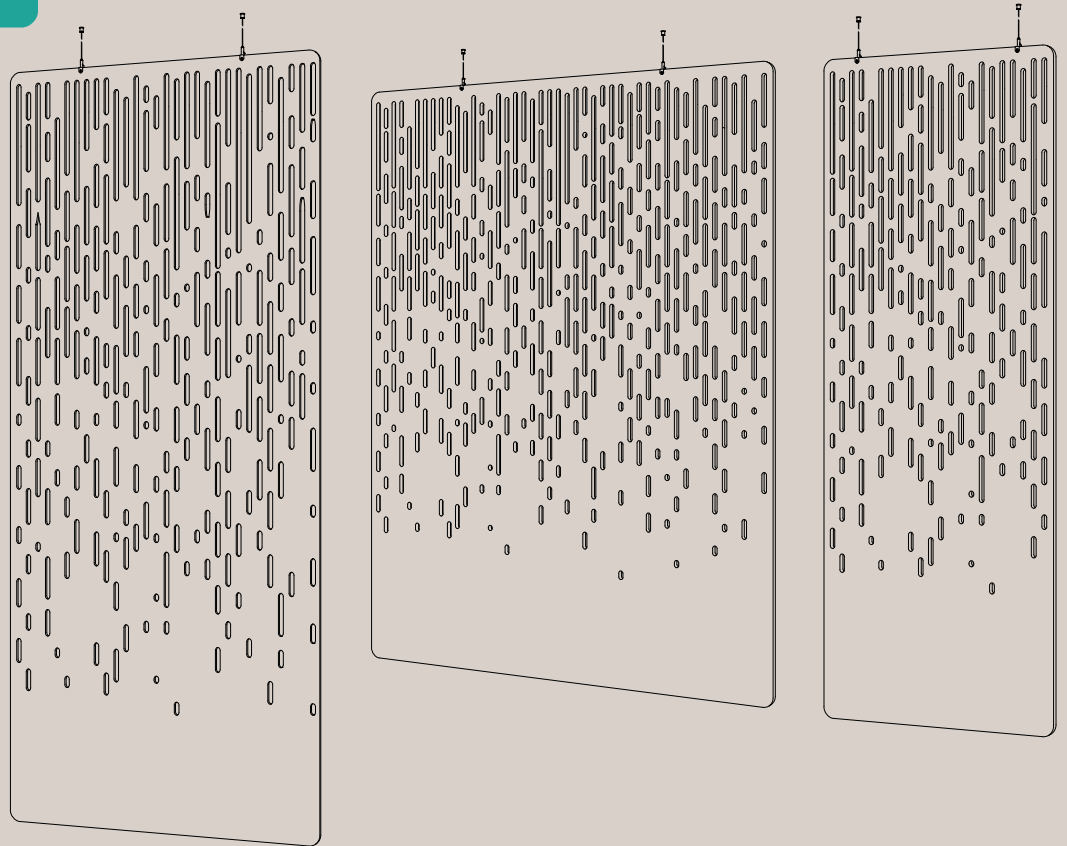


IMPACT ACOUSTIC®



HABITAT  
MATTER

habitatmatter.com  
spec@habitatmatter.com



# Matrix

## Hanging Division

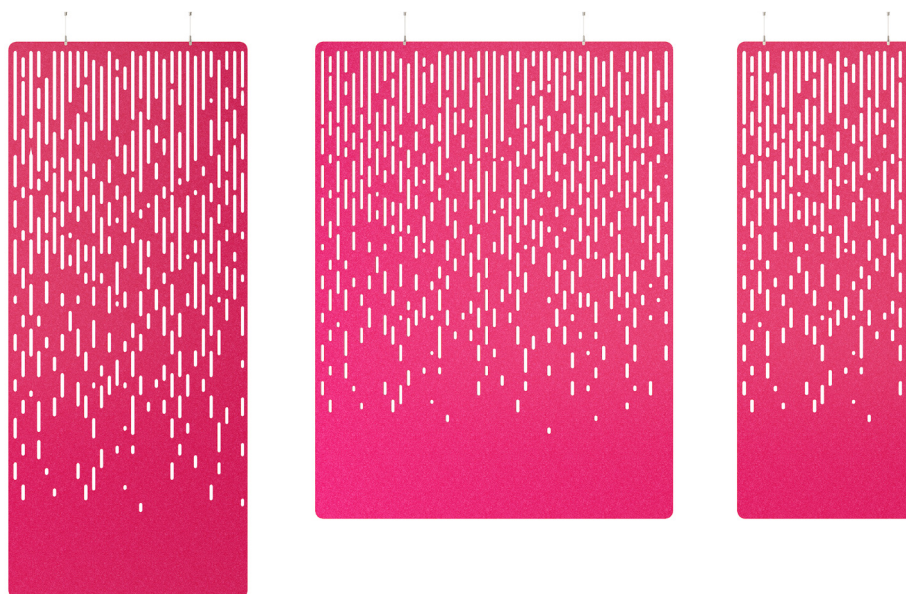
741.12.21.000.00  
741.24.21.000.00  
741.24.22.000.00

TECHNICAL DATA SHEET



# 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<sup>1</sup>

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<sup>2</sup>

PET Panel 24mm (0.95") 4 kg/m<sup>2</sup> 0.82 lbs/sq.ft

PET Panel 12mm (0.47") 2.4 kg/m<sup>2</sup> 0.49 lbs/sq.ft

## Included

Panel



Suspension Kit



Installation  
guide



Warranty  
2 years<sup>3</sup>



<sup>1</sup> - all dimensions are nominal   <sup>2</sup> - all weight values are nominal   <sup>3</sup> - Impact Acoustic warranty terms apply



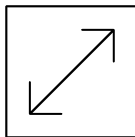
# Matrix Hanging Division

## 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:

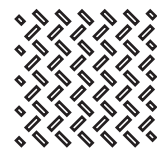
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Size  
page 4-6



Color  
page 7



Pattern  
page 5-6

### 2 Verify installation method:

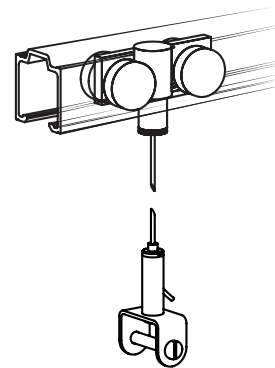
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Suspension Kit  
12mm



Suspension Kit  
24mm

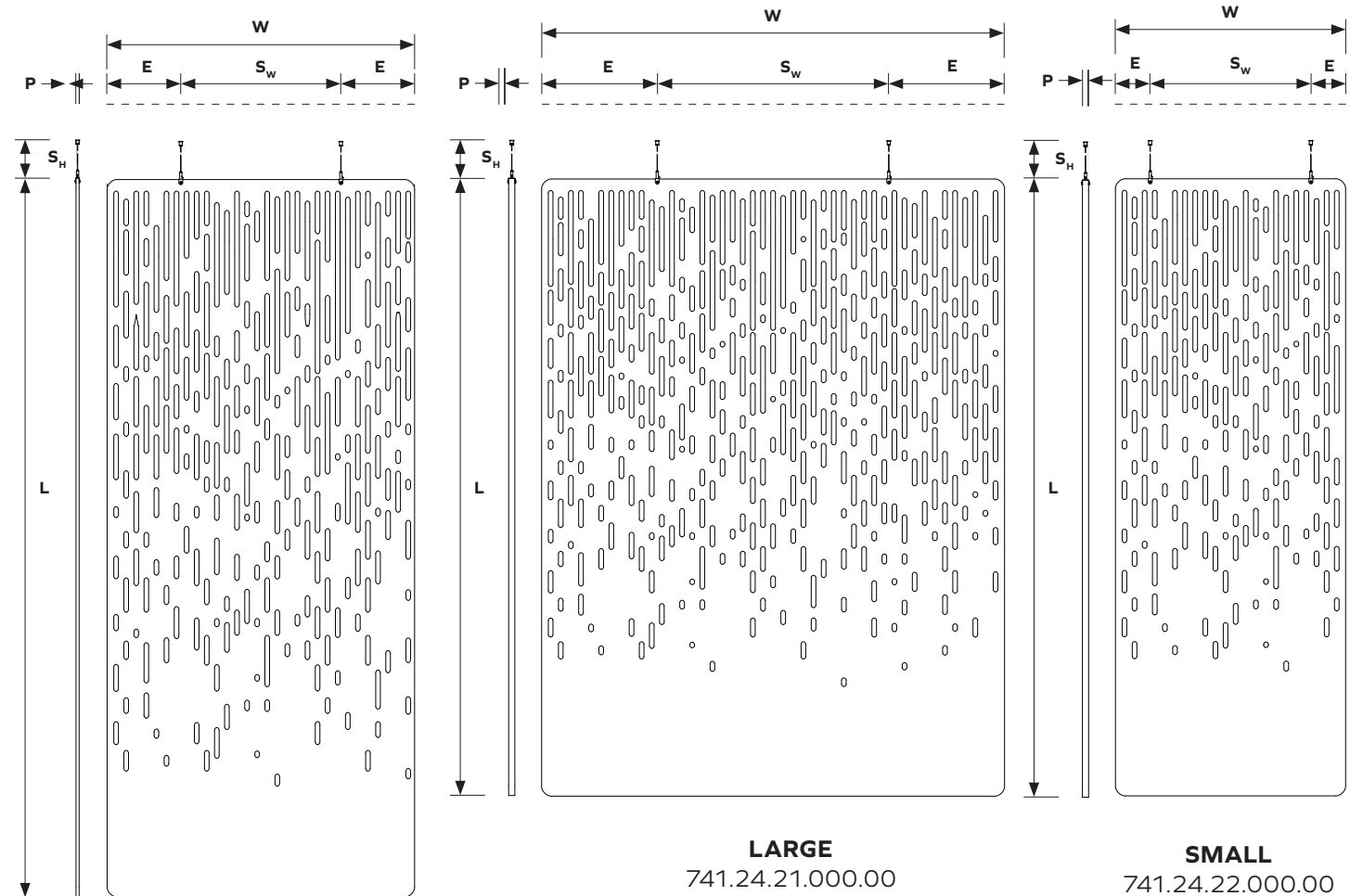


Curtain Slider  
12mm and 24mm

# Matrix Hanging Division

## Geometry Information

Custom solutions available



**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
<b>W</b> Total width	1200 mm / 47.24"	1800 mm / 70.87"	900 mm / 35.43"
<b>L</b> Total height	2800 mm / 110.24"	2400 mm / 94.49"	2400 mm / 94.49"
<b>E</b> Edge dimensions	288 mm / 11.34"	288 mm / 17.72"	135 mm / 5.31"
<b>P</b> PET material thickness	12 mm / 0.47"	24 mm / 0.94"	24 mm / 0.94"
<b>Sw</b> Support spacing width	624 mm / 24.57"	900 mm / 35.43"	625 mm / 24.61"
<b>Sh</b> Support spacing height	1000 - 1500 mm / 39.37 - 59.06"		

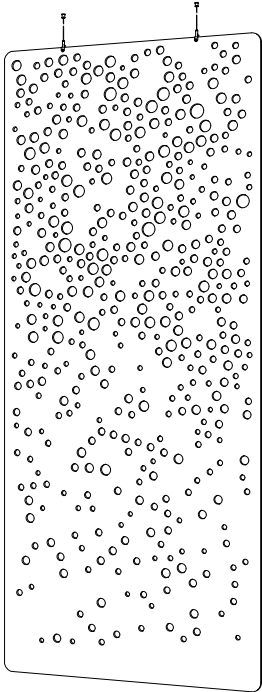


# Matrix Hanging Division

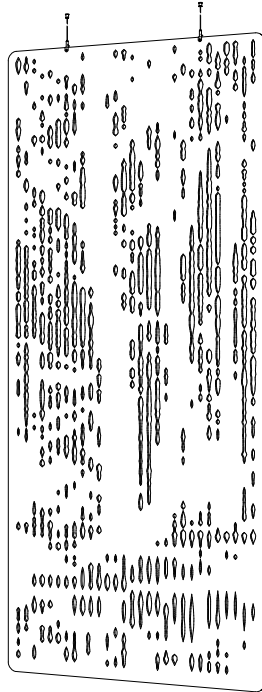
## Other perforations available

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

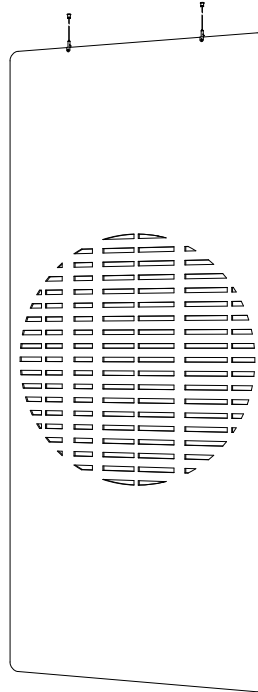
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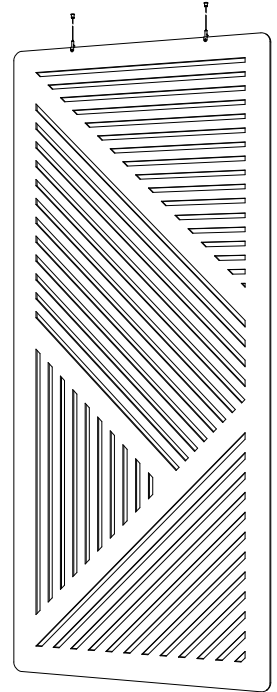
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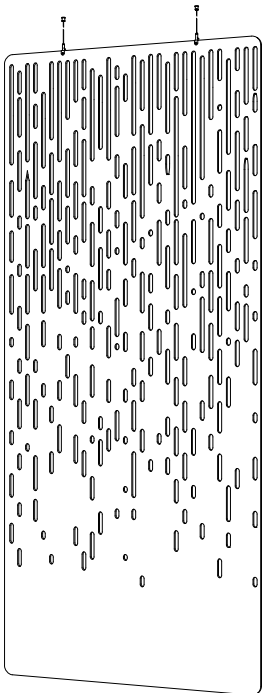
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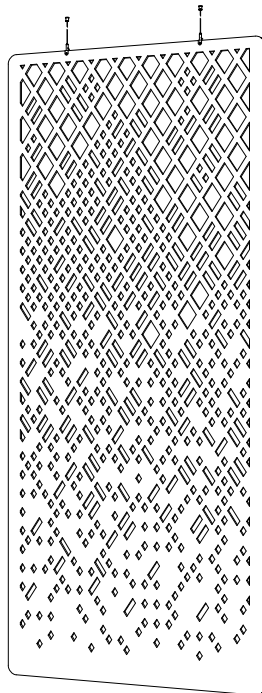
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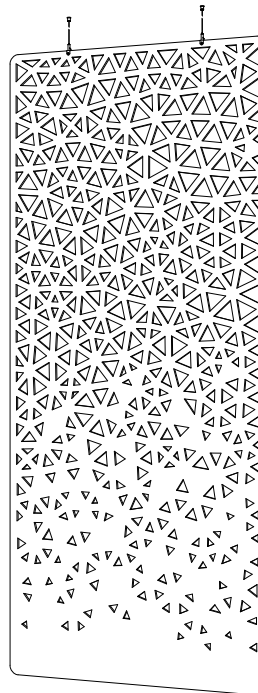
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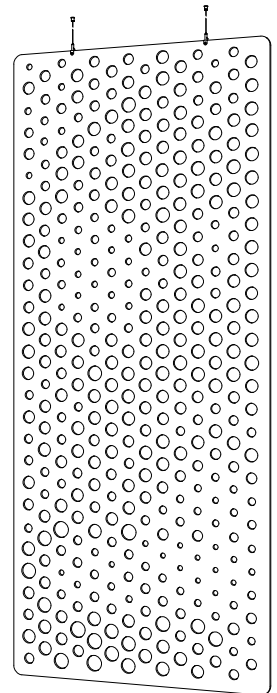
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741.12.25.000.00



741.12.27.000.00



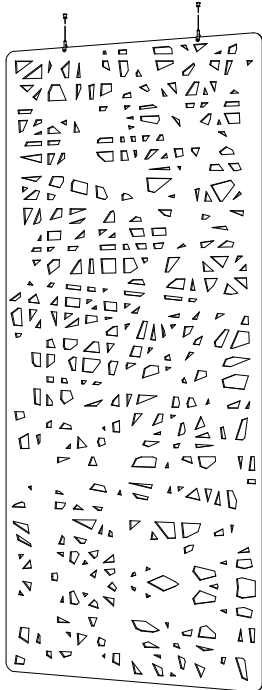


# Matrix Hanging Division

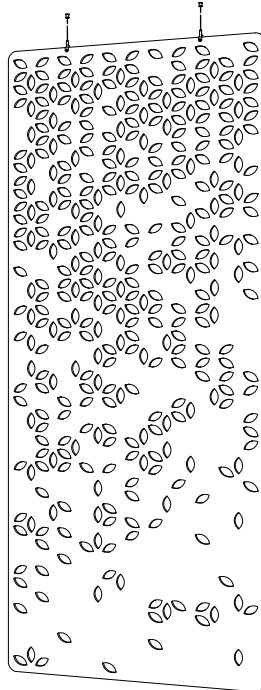
## Other perforations available

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

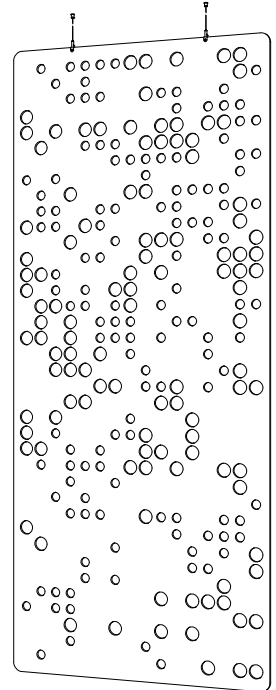
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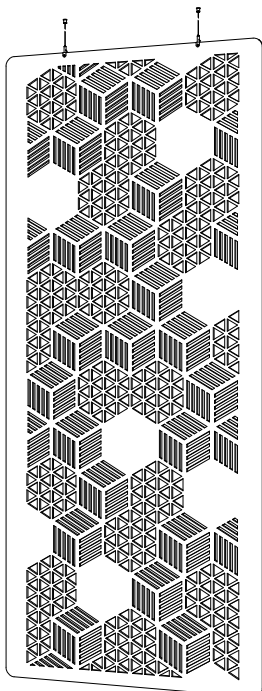
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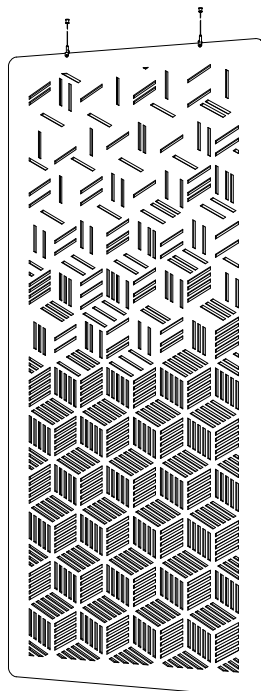
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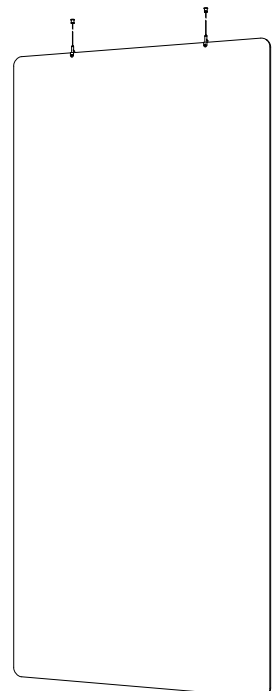
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741.12.36.000.00



































741.12.90.000.00



# ARCHISONIC®

## Colors

 Material brochure available

								
<b>Name</b>	Snow White	Milk	Cloud	Smoke	Ground	Charcoal	Slate	Raven
<b>Color Code</b>	500	404	103	442	108	542	444	550
<b>NCS Code</b>	S 0300-N	S 0502-Y	S 1002-B	S 3005-R80B	S 5005-Y20R	S 7502-B	S 4500-N	S 8500-N
								
<b>Name</b>	Nordic Pine	Grove	Moss	Spearmint	Ice Blue	Succulent	Deep Sea	Marine Blue
<b>Color Code</b>	311	317	439	706	304	712	918	864
<b>NCS Code</b>	S 5030-G10Y	S 7020-G30Y	S 2040-G40Y	S 1010-B90G	S 0510-B	S 3020-B30G	S 5020-R90B	S 4050-R70B
								
<b>Name</b>	Linen	Shell Pink	Jute	Warm Stone	Terracotta	Soft Coral	Honeycomb	Sunshine
<b>Color Code</b>	107	102	920	105	239	516	139	846
<b>NCS Code</b>	S 1505-Y30R	S 0510-R30B	S 3010-Y30R	S 3010-Y50R	S 4040-Y70R	S 2020-Y90R	S 2050-Y20R	S 1040-Y10R
								
<b>Name</b>	Garnet	Hot Pink	Poster Red	Electric Orange	Winter Sky	Pacific Ocean	Midnight	Grape
<b>Color Code</b>	724	140	662	464	311	311	810	540
<b>NCS Code</b>	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





# ARCHISONIC®

## Material Specification

<b>Product Name</b>	Archisonic® Felt	
<b>Content</b>	100% PET (60% certified post-consumer content)	
<b>Thickness<sup>1</sup></b>	12mm (0.47")	24mm (0.94")
<b>Max. Size</b>	1200x2800mm (47"x110")	1800x2400mm (70"x94")
<b>Acoustic<sup>2</sup></b>	<b>ASTM:</b> NRC=0.6 <b>ISO:</b> αw=0.65	<b>ASTM:</b> NRC=0.9 <b>ISO:</b> αw=0.95
<b>Density<sup>1</sup></b>	2400 g/m <sup>2</sup> (0.49 lbs/ sqft)	4000 g/m <sup>2</sup> (0.82 lbs/sqft)
<b>Color Fastness</b>	<b>Class 6</b> ISO 105-B02:A1	
<b>Color</b>	<b>32 colors</b> (see Archisonic® Felt Color page for more information)	
<b>Maintenance</b>	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.	
<b>Lead time<sup>3</sup></b>	21 days	
<b>Fire Rating</b>	DIN EN 13501-1: <b>B-s1, d0</b>	ASTM E84 <b>Class A</b>
<b>VOC Emission</b>	<b>A+</b> 28 Days French Regulation	ASTM E84 <b>Pass</b>
<b>Certifications</b>	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), Bream, SCS Recycled Content	
<b>Durability</b>	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



**Declare.**







# Matrix Hanging Division

## Acoustic Performance



### 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

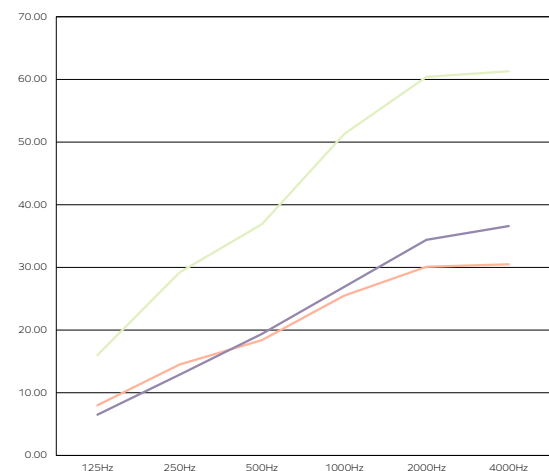
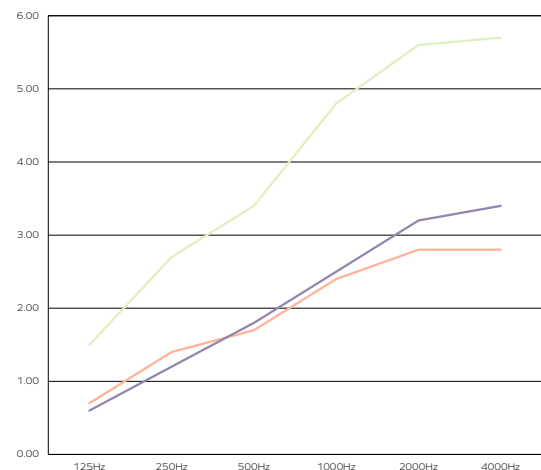
ASTM C423-17	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ASTM E795-16	Standard Practices for Mounting Test Specimens During Sound Absorption Tests

### ISO Equivalent Absorption Surface Area for the object (Aeq) (m<sup>2</sup>)

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<sup>2</sup>)

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



# Hanging Divisions

## Reference Projects

