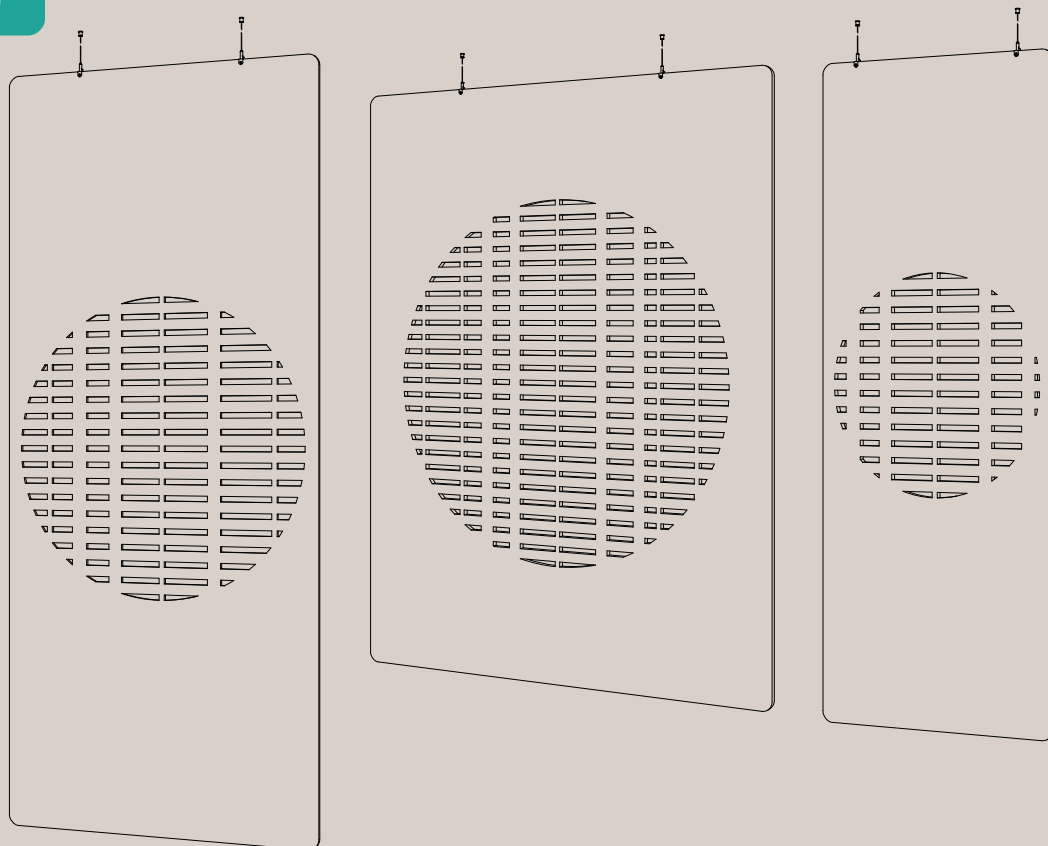


IMPACT ACOUSTIC®



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spec@habitatmatter.com



Illum

Hanging Division

741.12.17.000.00

741.24.17.000.00

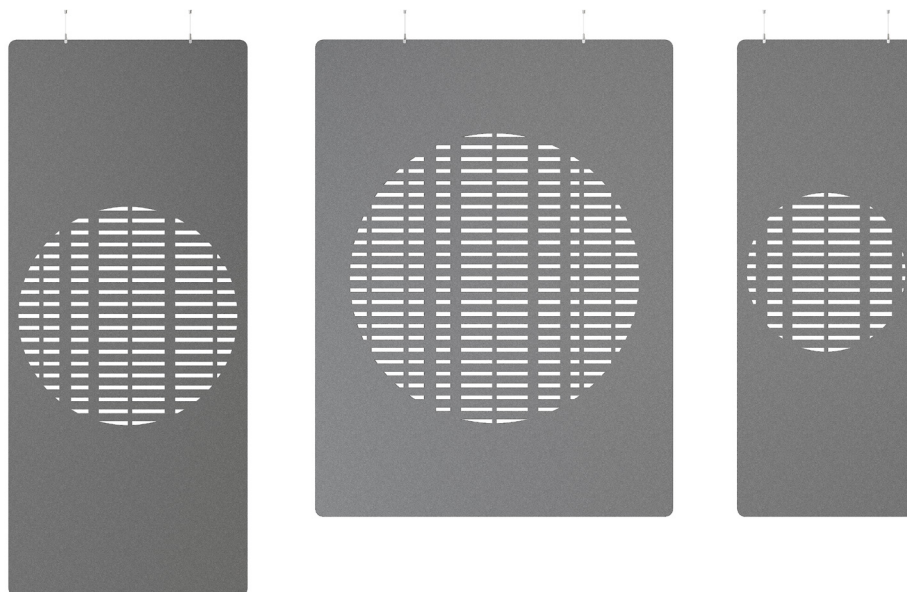
741.24.18.000.00

TECHNICAL DATA SHEET



Illum Hanging Division

General Information



Data

Applicable article numbers

TALL 741.12.17.000.00

LARGE 741.24.17.000.00

SMALL 741.24.18.000.00

Dimensions¹

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

Weight²

PET Panel 24mm (0.95")	4 kg/m ²	0.82 lbs/sq.ft
PET Panel 12mm (0.47")	2.4 kg/m ²	0.49 lbs/sq.ft

Included

Panel



Suspension Kit



Installation
guide



Warranty
2 years³



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

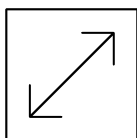


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Specification Guide

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.

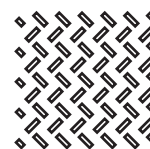
1 Specify your product:



Size
page 4-6



Color
page 7



Pattern
page 5-6

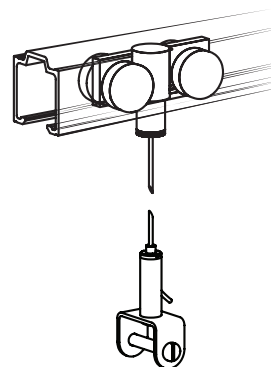
2 Verify installation method:



Suspension Kit
12mm



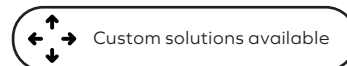
Suspension Kit
24mm



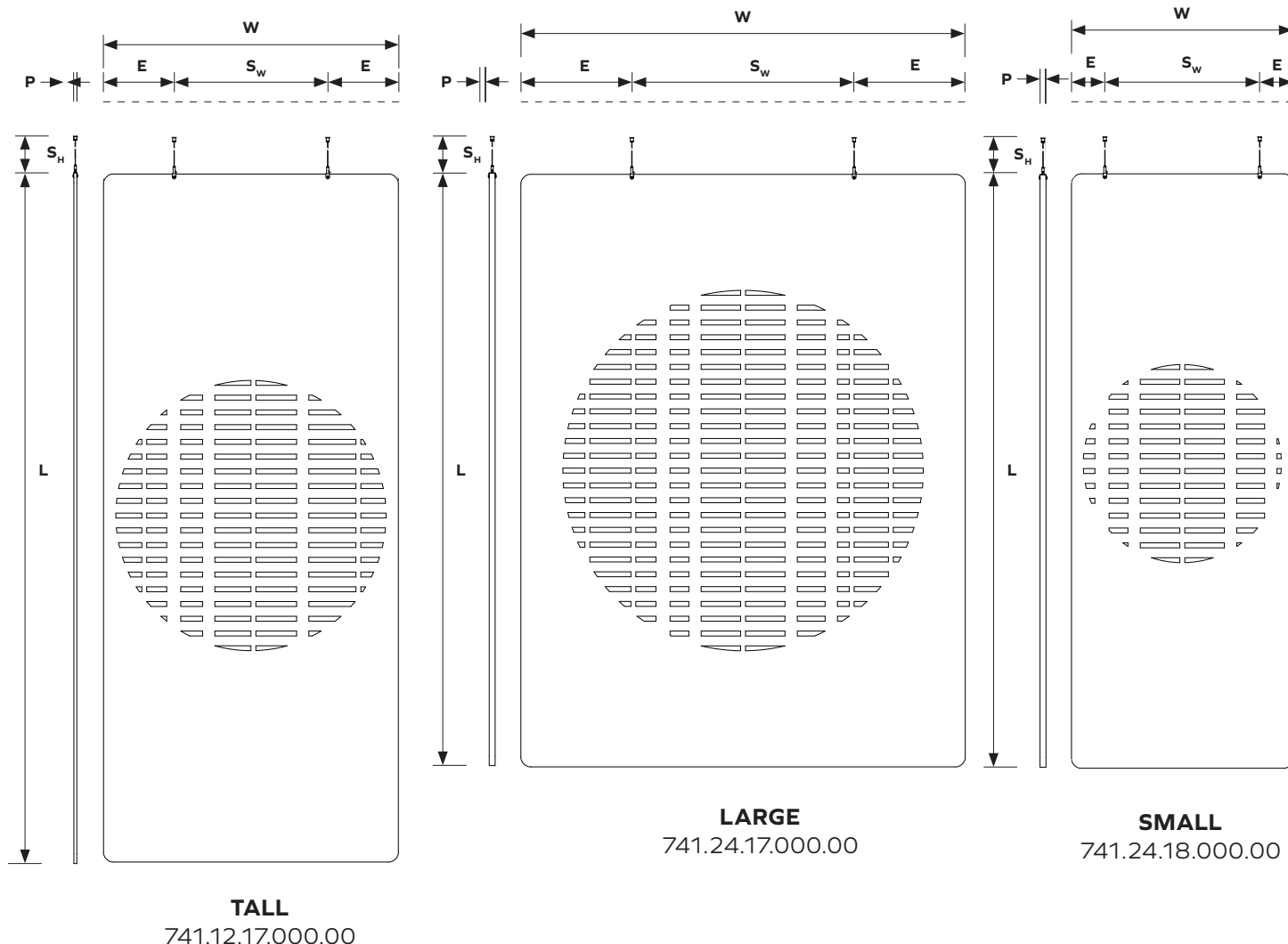
Curtain Slider
12mm and 24mm

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Geometry Information



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Dimensions		TALL 741.12.17.000.00	LARGE 741.24.17.000.00	SMALL 741.24.18.000.00
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"
Sw	Support spacing width	624 mm / 24.57"	900 mm / 35.43"	625 mm / 24.61"
Sh	Support spacing height	1000 - 1500 mm / 39.37 - 59.06"		

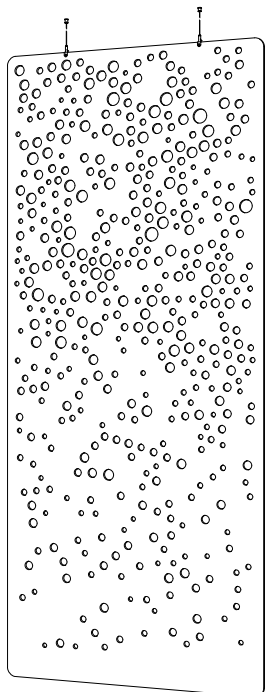


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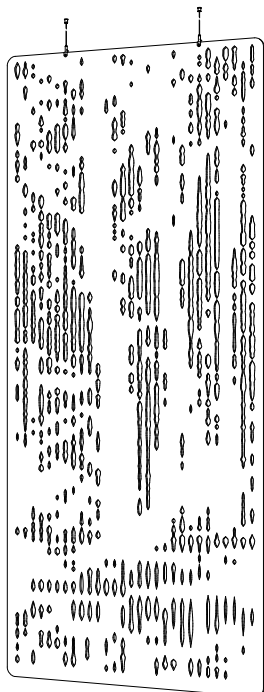
Other perforations available

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

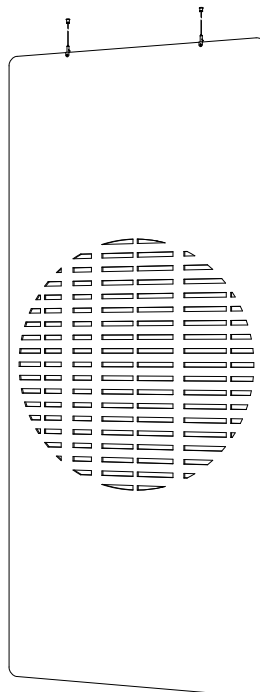
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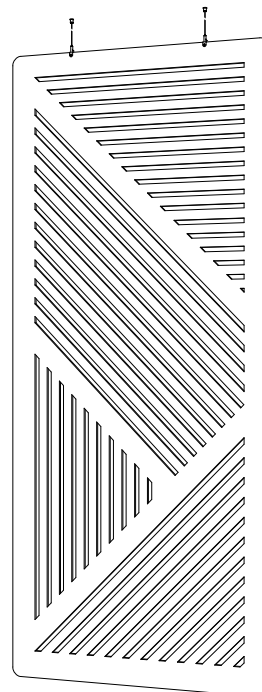
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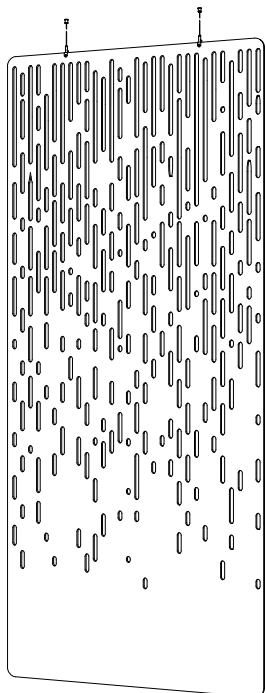
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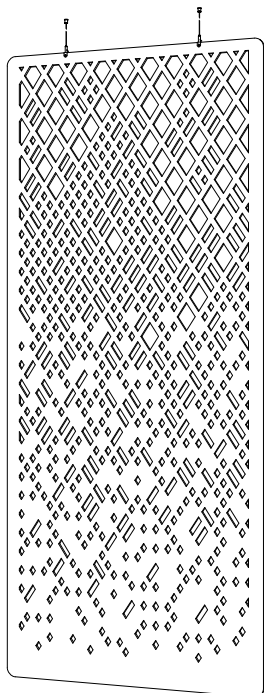
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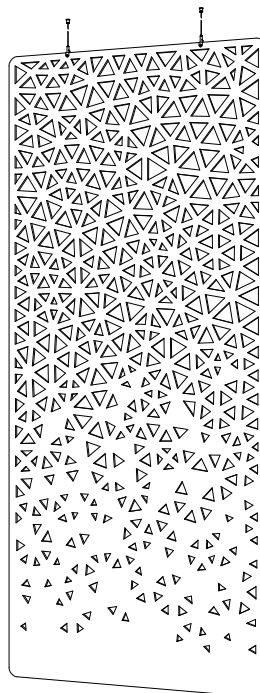
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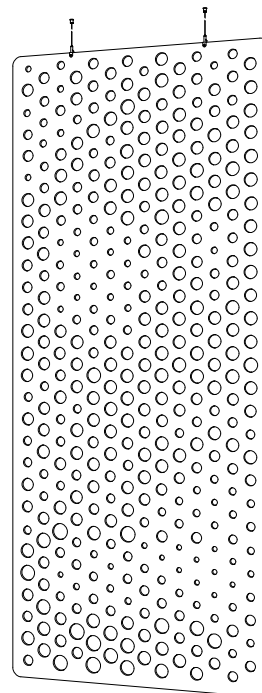
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741.12.27.000.00



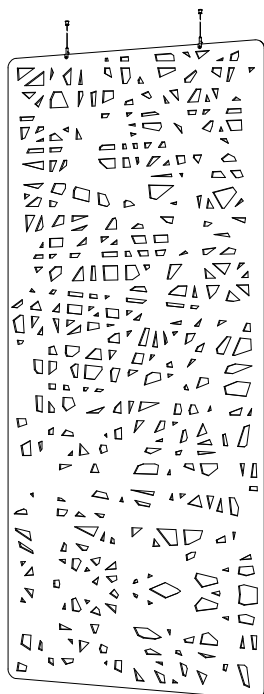


Illum Hanging Division

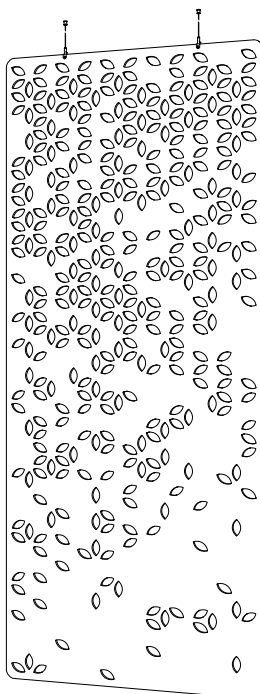
Other perforations available

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

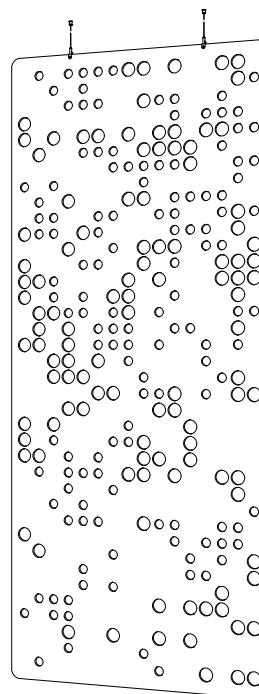
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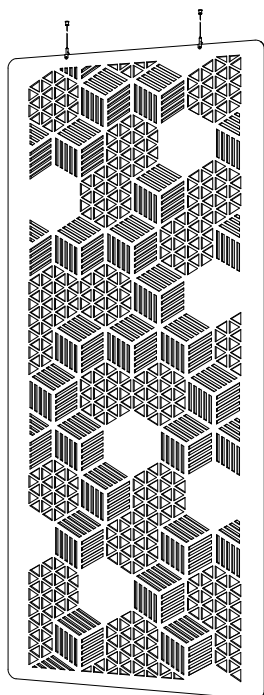
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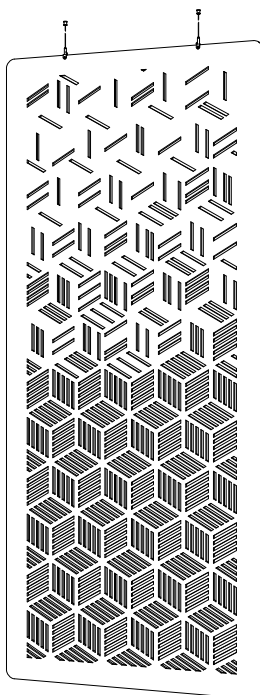
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741.12.35.000.00



741.12.36.000.00

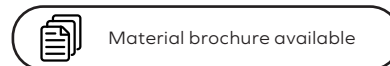


741.12.90.000.00



ARCHISONIC®

Colors



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	Deep 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





ARCHISONIC®

Material Specification

Product Name	Archisonic® Felt	
Content	100% PET (60% certified post-consumer content)	
Thickness¹	12mm (0.47")	24mm (0.94")
Max. Size	1200x2800mm (47"x110")	1800x2400mm (70"x94")
Acoustic²	ASTM: NRC=0.6 ISO: α_w =0.65	ASTM: NRC=0.9 ISO: α_w =0.95
Density¹	2400 g/m ² (0.49 lbs/ sqft)	4000 g/m ² (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 time³	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



Climate-KIC

Declare.





Illum Hanging Division

Acoustic Performance



University of Stuttgart
Germany

ISO Standards

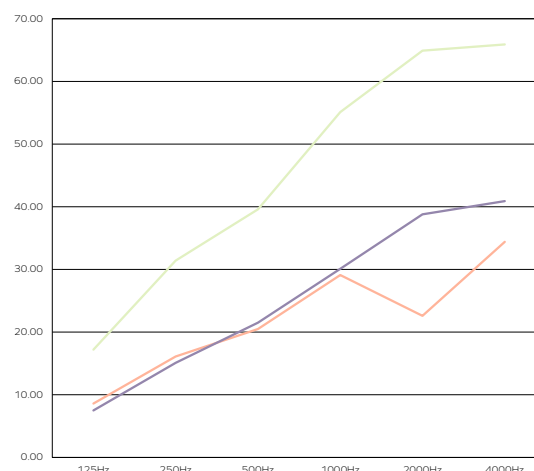
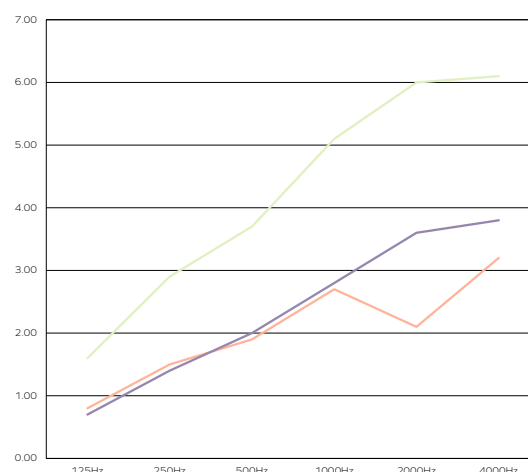
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ISO 20189:2018	Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound 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) (m²)		
Frequency (Hz)	Tall	Large	Small
125	0.7	1.6	0.8
250	1.4	2.9	1.5
500	2.0	3.7	1.9
1000	2.8	5.1	2.7
2000	3.6	6.0	2.1
4000	3.8	6.1	3.2

ASTM	Sabins (ft²)		
Frequency (Hz)	Tall	Large	Small
125	7.5	17.2	8.6
250	15.1	31.4	16.1
500	21.5	39.6	20.5
1000	30.1	55.1	29.1
2000	38.8	64.9	22.6
4000	40.9	65.9	34.4



“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

● Illum (Tall)
● Illum (Large)
● Illum (Small)



Hanging Divisions

Reference Projects

