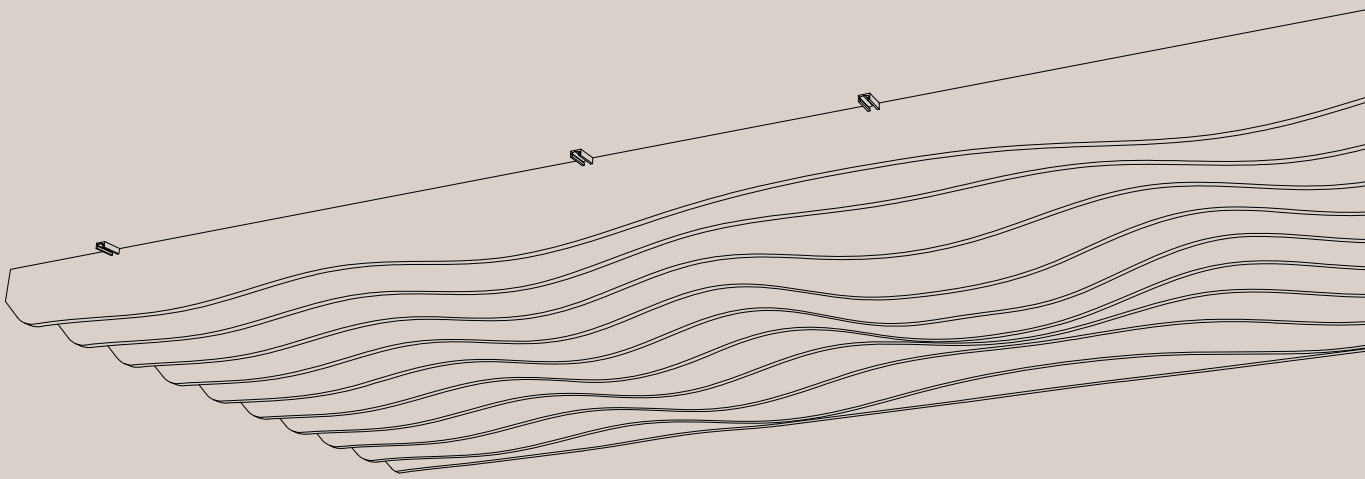
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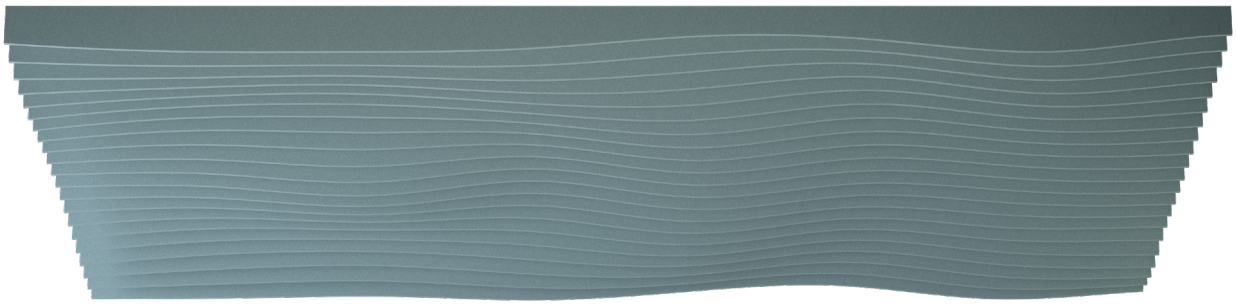
Bespoke
Baffle Systems

713.24.10.000.00
713.24.11.000.00
713.24.12.000.00
713.24.13.000.00
713.24.14.000.00
713.24.15.000.00
713.24.30.000.00
713.24.31.000.00
713.24.32.000.00
713.24.33.000.00
713.24.34.000.00
713.24.35.000.00
713.24.44.000.00
713.24.45.000.00

TECHNICAL DATA SHEET

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Bespoke Baffle
General Information



Data

Applicable article numbers

713.24.10.000.00	713.24.14.000.00	713.24.32.000.00	713.24.44.000.00
713.24.11.000.00	713.24.15.000.00	713.24.33.000.00	713.24.45.000.00
713.24.12.000.00	713.24.30.000.00	713.24.34.000.00	
713.24.13.000.00	713.24.31.000.00	713.24.35.000.00	

Dimensions[1]

Height range	100-300mm	4"-10"
Spacing range	100-300mm	4"-10"
Material thickness	24mm	0.94"
Length	on demand	on demand

Custom solutions available

1 - all Imperial dimentions are nominal

Material

Baffles	100% PET (60% post-consumer) in 32 colors.
Strut profiles	Steel (galvanized or powder coated black)

Extended document available

Weight[2]

Baffles	4kg/m^2 (±10%)	0.82 lbs/ft^2 (±10%)
Strut profile	0.62kg/m	0.99 lbs/ft

2 - all weight values are nominal

Included

Custom baffles

Suspension system

Installation guide

Design revision

Warranty 2 years[3]

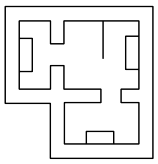
1 - all dimentions are nominal 2 - all weight values are nominal 3 - Impact Acoustic warranty terms apply

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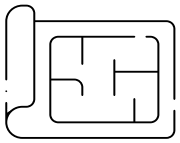
Bespoke Baffle
Specification Guide

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 Prepare this information:



Project Area



Ceiling Plans (RCP)

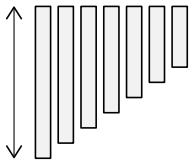
page 8



Other Considerations

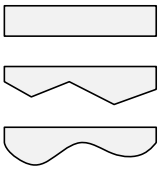
page 8

2 Specify your Baffles:



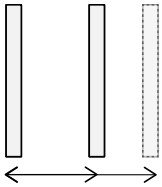
Height

page 4



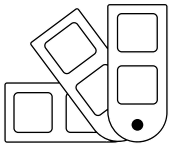
Shape

page 5-6



Spacing

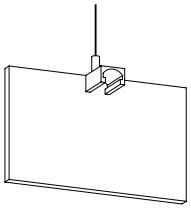
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Color

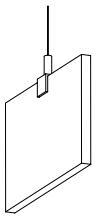
page 9

3 Select installation method:

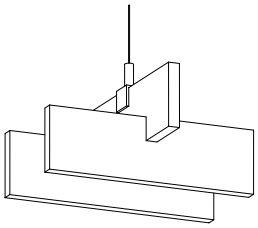


Strut track

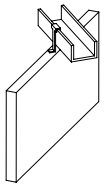
page 7



Direct Gripper



Gripper + Slotted Baffle



Multidirectional track

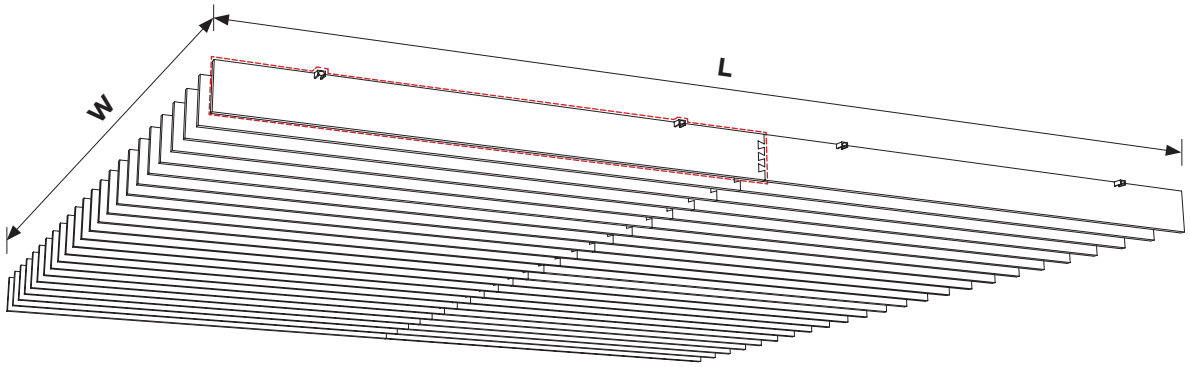
Bespoke Baffle
Geometry Information

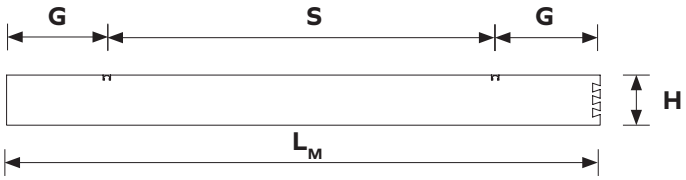
Custom solutions available

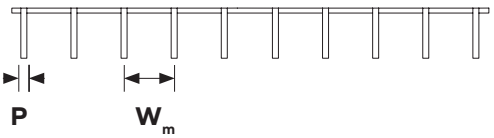
Reference geometry

Explore the various standard and custom sizes in our product families. See the drawing below for an overview of basic dimensions, modules and ranges.

Customize our **Bespoke** products beyond the presented values - contact us for details.







Dimensions table

W	Total width	on demand	on demand	*bespoke*
W_m	Spacing	100-300mm	4”-10”	*standard or bespoke*
L	Total length	on demand	on demand	*bespoke*
L_m	Length module	1600-2400mm	63’’-94.5”	*standard*
G	Overhang	400mm	15.75”	*standard*
S	Support spacing	max.1600	max.63”	*standard*
H	Baffle height	100-300mm	4”-10”	*standard or bespoke*
P	PET material thickness	24mm	0.94””	*fixed*

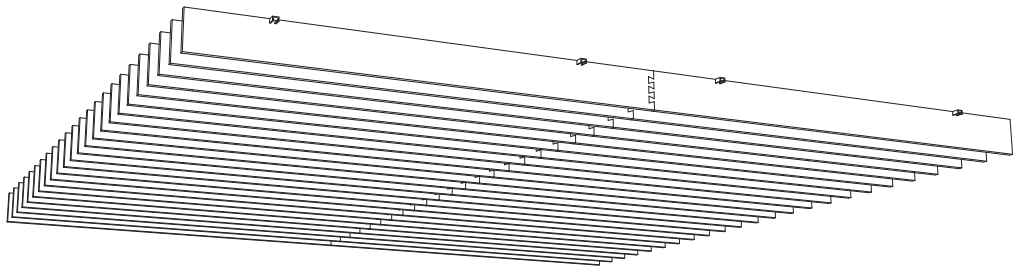
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Bespoke Baffle
Product Family Overview

1 Bespoke Straight Baffles

Customizable product

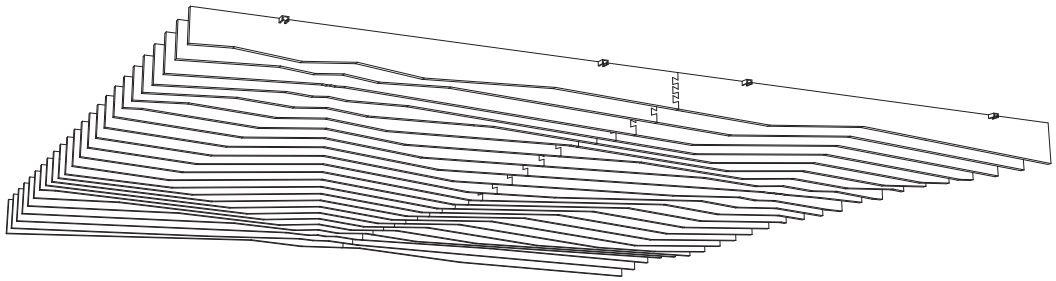
713.24.14.000.00 - Baffle Straight Bespoke (H200, S200) (H7.87", S7.87")
713.24.15.000.00 - Baffle Straight Bespoke (H300, S200) (H11.81", S7.87")
713.24.34.000.00 - Baffle Straight Bespoke (H200, S300) (H7.87", S11.81")
713.24.35.000.00 - Baffle Straight Bespoke (H300, S300) (H11.81" S11.81")
713.24.44.000.00 - Baffle Straight Bespoke (H200, S100) (H11.81", S3.94")
713.24.45.000.00 - Baffle Straight Bespoke (H300, S100) (H11.81", S3.94")



2 Bespoke Edge Baffles

Customizable product

713.24.10.000.00 - Baffle Edge Bespoke (H150-250, S200) (H5.90"-9.84", S7.87")
713.24.30.000.00 - Baffle Edge Bespoke (H150-250, S300) (H5.90"-9.84", S11.81")



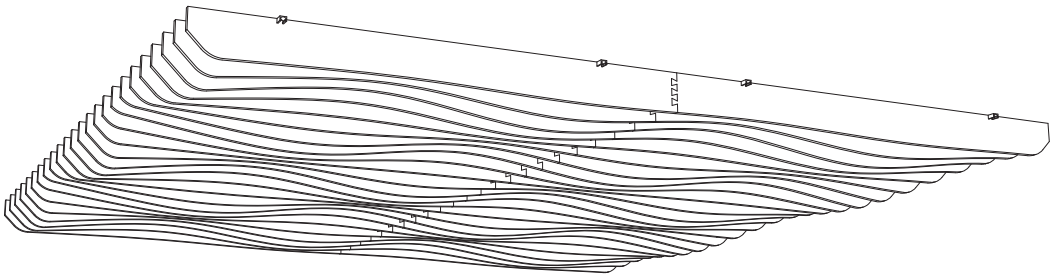
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Bespoke Baffle
Product Family Overview

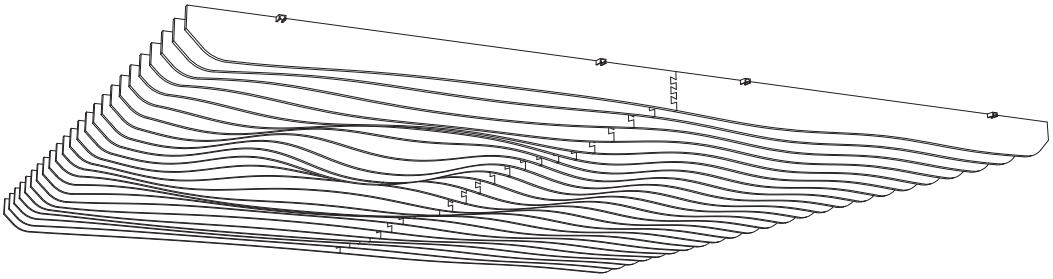
3 Bespoke Wave Baffles

Customizable product

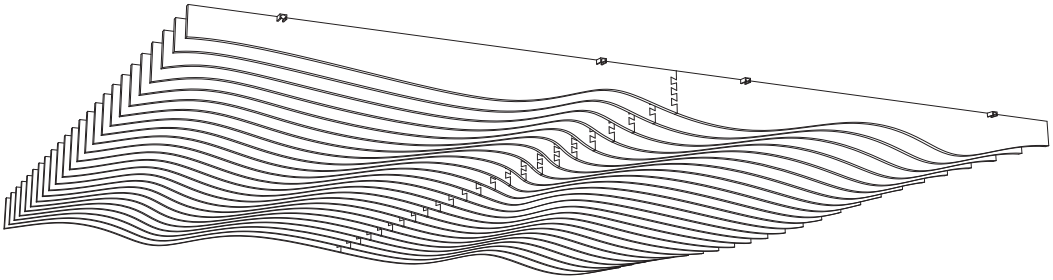
713.24.11.000.00 - Baffle Wave Sine (H150-250, S200) (H5.90"-9.84", S7.87")
713.24.31.000.00 - Baffle Wave Sine (H150-250, S300) (H5.90"-9.84", S11.81")



713.24.12.000.00 - Baffle Wave Ripple (H150-250, S200) (H5.90"-9.84", S7.87")
713.24.32.000.00 - Baffle Wave Ripple (H150-250, S300) (H5.90"-9.84", S11.81")



713.24.13.000.00 - Baffle Wave Morph (H150-250, S200) (H5.90"-9.84", S7.87")
713.24.33.000.00 - Baffle Wave Morph (H150-250, S300) (H5.90"-9.84", S11.81")



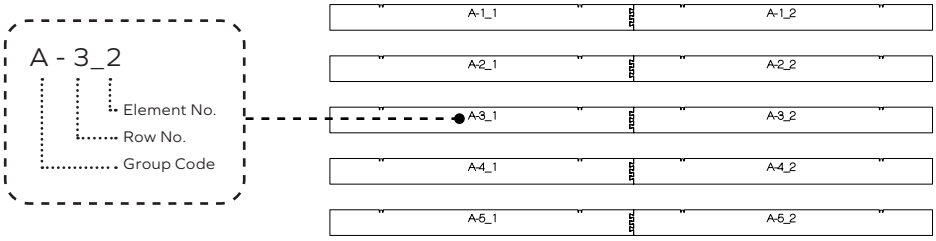
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Bespoke Baffle
Installation Overview

Extended document available

1 Verify and organize

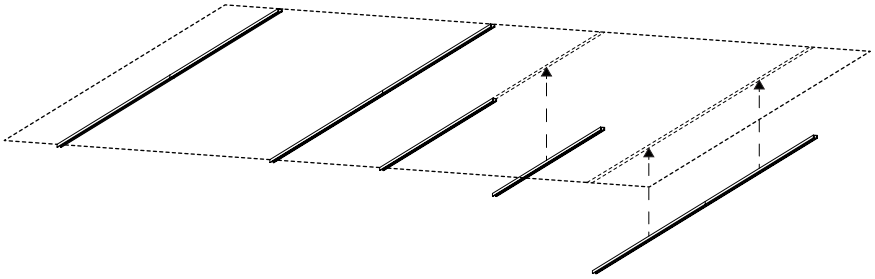
Verify all delivered elements and organize them based on the included labeling of each part and the supplied drawings.



2 Install mounting hardware

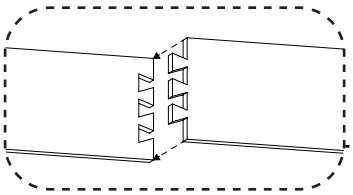
Measure, mark and fix suspension hardware to your ceiling.

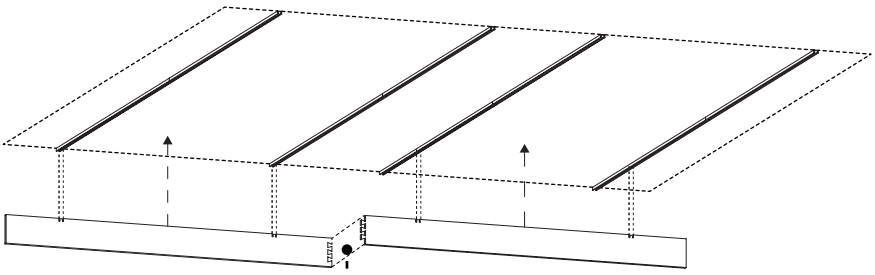




3 Install baffles

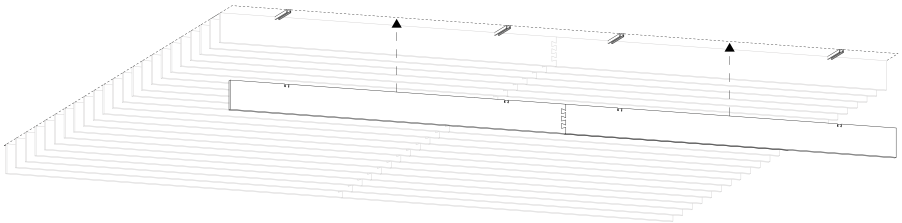
Fix baffle segments to mounting hardware and connect them together using the dovetail joints.





4 Repeat until done

Repeat Step 3, installing one baffle row at a time, and using the supplied Spacer Element to keep always the same spacing.



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Bespoke Baffle
Planning Considerations

Extended document available

When planning the addition of a Bespoke Ceiling Baffle System to your space, please consider the following aspects.

1 Project Area

Check and verify the project area where the Ceiling Baffle System will be installed. This will allow us to provide you with an accurate quote.

2 Reverse Ceiling Plans

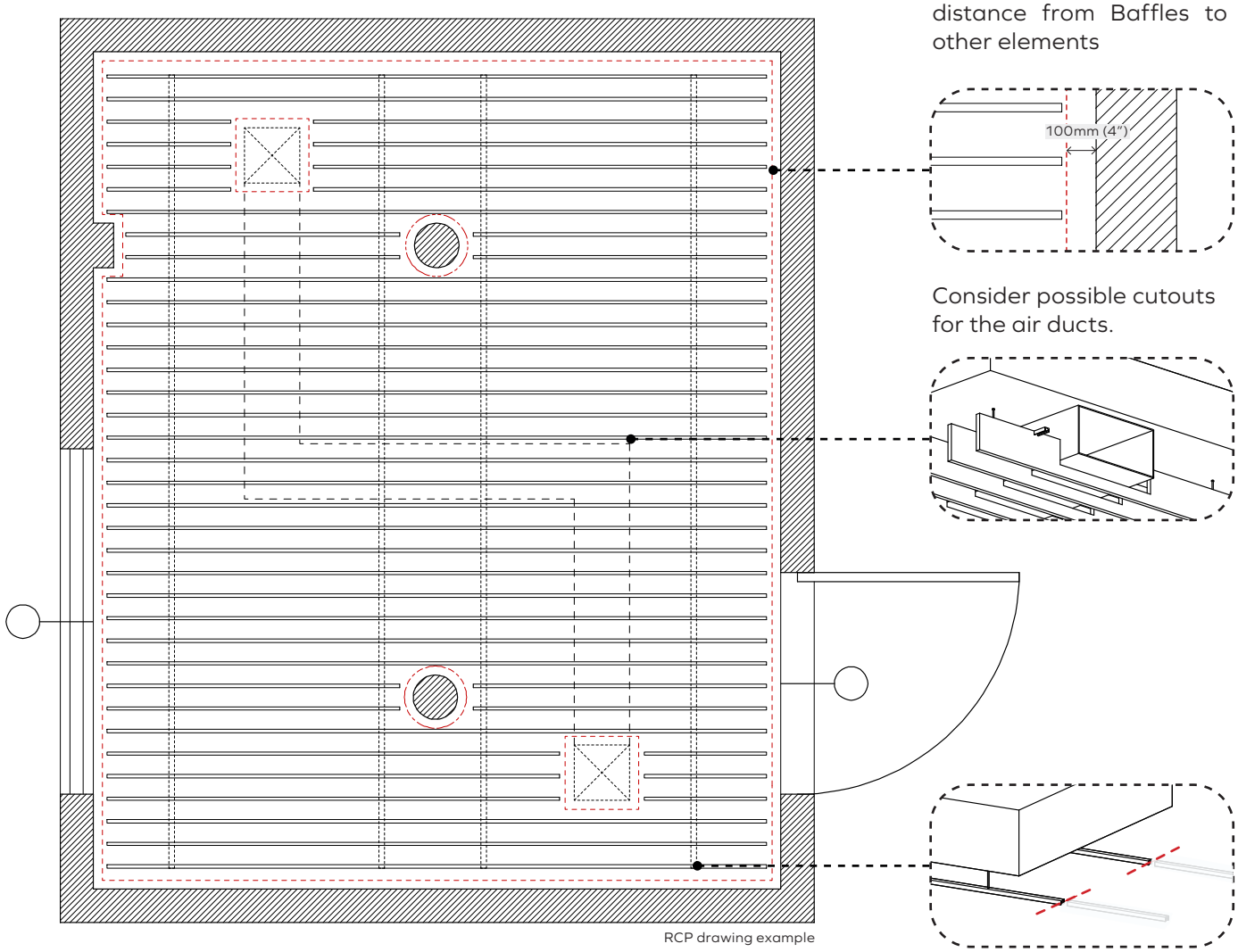
Verify if RCP drawings for the space are available. This will help plan for any obstacles like columns and air-ducts that might collide with the Baffles.

3 Additional considerations

Consider access to high windows and doors.

Verify the type of material to which the support elements will be mounted.

Plan for providing min. 100mm (4") safe space distance from Baffles to other elements



RCP drawing example

Consider possible cutouts for the air ducts.

The provided strut tracks might need to be cut to measure on site.

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ARCHISONIC®
Colours

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samples@habitatmatter.com

Name	Snow White	Cloud	Smoke	Slate	Charcoal	Raven	Ground	Gull	Milk
Code	**500**	**103**	**442**	**444**	**542**	**550**	**108**	**144**	**404**
NCS	S 0300-N	S 1002-B	S 3005-R80B	S 4500-N	S 7502-B	S 8500-N	S 5005-Y20R	S2502-Y	S 0502-Y

Name	Linen	Dune	Jute	Fallow	Warm Stone	Truffle	Sunshine	Honeycomb	Electric Orange
Code	**107**	**104**	**920**	**238**	**105**	**539**	**846**	**139**	**464**
NCS	S 1505-Y30R	S 2005-Y	S 3010-Y30R	S 5010-Y30R	S 3010-Y50R	S 8502-R	S 1040-Y10R	S 2050-Y20R	S 0580-Y70R

Name	Terracotta	Soft Coral	Cinnabar	Shell Pink	Garnet	Poster Red	Hot Pink	Grape	Marine Blue
Code	**239**	**516**	**725**	**102**	**724**	**662**	**140**	**540**	**864**
NCS	S 4040-Y70R	S 2020-Y90R	S 6030-R	S 0510-R30B	S 5040-R10B	S 1080-R	S 2060-R20B	**S 5040-R40B**	S 4050-R70B

Name	Midnight	Royal Blue	Winter Sky	Deep Sea	Nocturne	True Navy	Ice Blue	Pacific Ocean	Lagoon
Code	**810**	**865**	**410**	**918**	**866**	**194**	**304**	**432**	**917**
NCS	S 7020-R70B	S 3560-R80B	S 2020-R90 B	S 5020-R90B	S 8010-R90B	S8005-B	S 0510-B	S 3040-B	S 7020-B30G

Name	Succulent	Spearmint	Seafoam	Nordic Pine	Moss	Grove	Pistachio	Lichen	Fern
Code	**712**	**706**	**710**	**311**	**439**	**317**	**315**	**160**	**180**
NCS	S 3020-B30G	S 1010-B90G	S 3010-G30Y	S 5030-G10Y	S 2040-G40Y	S 7020-G30Y	S 5020-Y	**S4005-Y**	S6010-G90Y

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

ARCHISONIC®

Colours

Experience our ARCHISONIC® Felt material with a stunning selection of 45 colours across 9 distinct families, thoughtfully curated by *Colour Hive* in London. Effortlessly combine colours harmoniously to suit your preferences. Discover more in our Materials brochure and order your free sample box today.

Colour 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)	
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

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Bespoke Baffle
Acoustic Performance

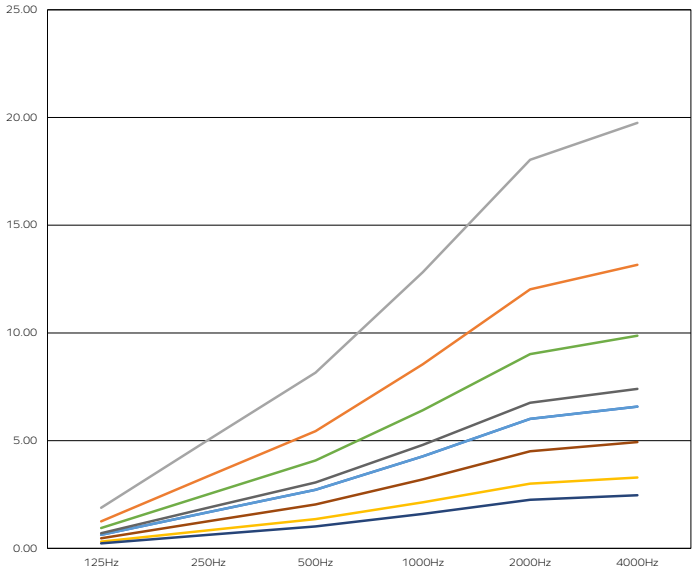
Testing Standards

University of Stuttgart
Germany

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
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

Acoustic Test Results ISO

Frequency (Hz)		125	250	500	1000	2000	4000	αw
100mm height, 100mm spacing	m^2	0.63	1.68	2.72	4.27	6.01	6.58	0.70 (LH)
200mm height, 100mm spacing	m^2	1.26	3.36	5.44	8.55	12.02	13.17	1.00 (LMH)
300mm height, 100mm spacing	m^2	1.89	5.04	8.16	12.82	18.03	19.75	1.00 (LMH)
100mm height, 200mm spacing	m^2	0.31	0.84	1.36	2.14	3.01	3.29	0.40 (H)
200mm height, 200mm spacing	m^2	0.63	1.68	2.72	4.27	6.01	6.58	0.70 (MH)
300mm height, 200mm spacing	m^2	0.94	2.52	4.08	6.41	9.02	9.87	0.95 (MH)
100mm height, 300mm spacing	m^2	0.24	0.63	1.02	1.60	2.25	2.47	0.35 (H)
200mm height, 300mm spacing	m^2	0.47	1.26	2.04	3.21	4.51	4.94	0.60 (MH)
300mm height, 300mm spacing	m^2	0.71	1.89	3.06	4.81	6.76	7.41	0.80 (MH)



Acoustic Test Results ASTM	NRC
100mm height, 100mm spacing	0.95
200mm height, 100mm spacing	1.95
300mm height, 100mm spacing	2.9
100mm height, 200mm spacing	0.5
200mm height, 200mm spacing	0.95
300mm height, 200mm spacing	1.45
100mm height, 300mm spacing	0.35
200mm height, 300mm spacing	0.75
300mm height, 300mm spacing	1.1

The graph represents the sound absorption coefficients (αs) in the third octave band center frequencies. Measurement used Pink Noise as excitation signal in a reverberant room.

- 100mm height, 100mm spacing
- 200mm height, 100mm spacing
- 300mm height, 100mm spacing
- 100mm height, 200mm spacing
- 200mm height, 200mm spacing
- 300mm height, 200mm spacing
- 100mm height, 300mm spacing
- 200mm height, 300mm spacing
- 300mm height, 300mm spacing

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Bespoke Baffle

Reference Projects



