

# Bespoke Baffle Systems

713.24.10.000.00  
713.24.11.000.00  
713.24.12.000.00  
713.24.13.000.00  
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713.24.34.000.00  
713.24.35.000.00

713.24.44.000.00  
713.24.45.000.00

# 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<sup>1</sup>

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

#### Material

Baffles	100% PET (60% post-consumer) in 45 colours.
Strut profiles	Steel (galvanized or powder coated black)



Extended document available

#### Weight<sup>2</sup>

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

### Included

Custom baffles



Suspension system



Installation guide



Design revision



Warranty 10 years<sup>3</sup>



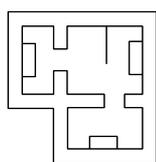
1 - all dimensions are nominal    2 - all weight values are nominal    3 - Impact Acoustic warranty terms apply

# Bespoke Baffle

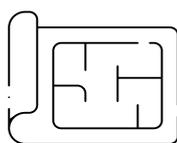
## Specification Guide

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)

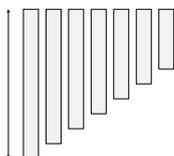
page 8



Other Considerations

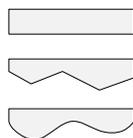
page 8

### 2 Specify your Baffles:



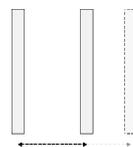
Height

page 4



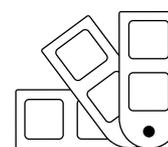
Shape

page 5-6



Spacing

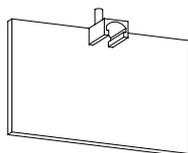
page 4



Colour

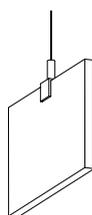
page 9

### 3 Select installation method:

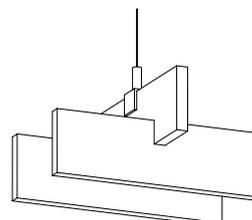


Strut Channel

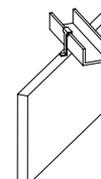
page 7



Suspension Kit Bracket



Suspension Kit  
Bracket + Slotted  
Baffle



Multidirectional  
track

# Bespoke Baffle

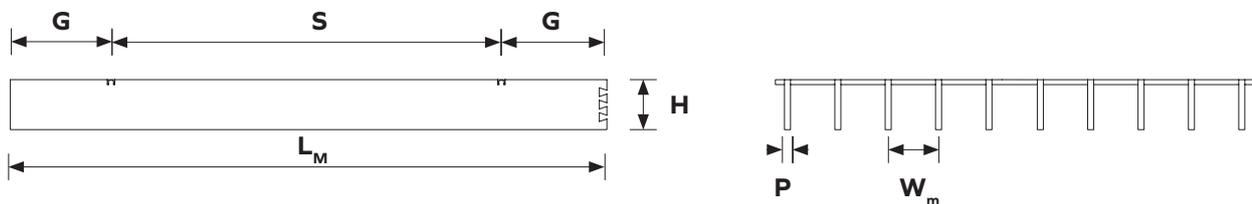
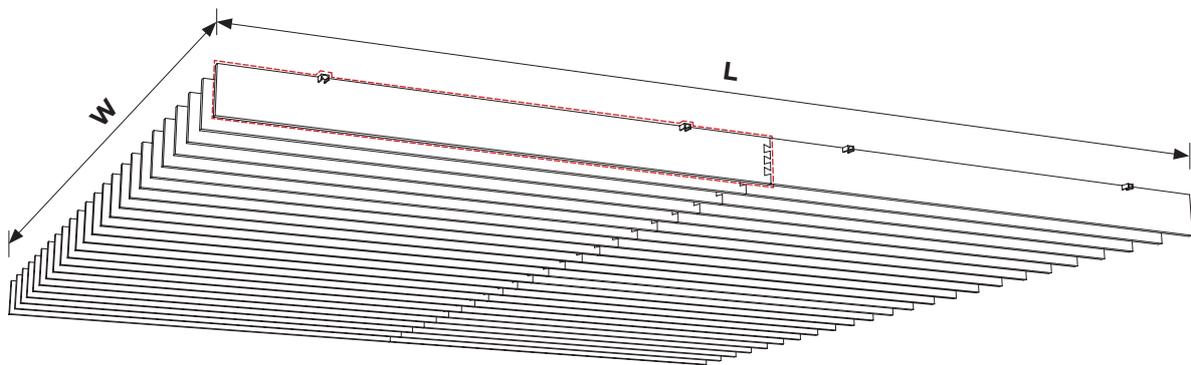
## Geometry Information



### 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

<b>W</b>	Total width	on demand	on demand	<i>bespoke</i>
<b>W<sub>m</sub></b>	Spacing	100-300mm	4"-10"	<i>standard or bespoke</i>
<b>L</b>	Total length	on demand	on demand	<i>bespoke</i>
<b>L<sub>m</sub></b>	Length module	1600-2400mm	63"-94.5"	<i>standard</i>
<b>G</b>	Overhang	400mm	15.75"	<i>standard</i>
<b>S</b>	Support spacing	max.1600	max.63"	<i>standard</i>
<b>H</b>	Baffle height	100-300mm	4"-10"	<i>standard or bespoke</i>
<b>P</b>	PET material thickness	24mm	0.94"	<i>fixed</i>

# Bespoke Baffle

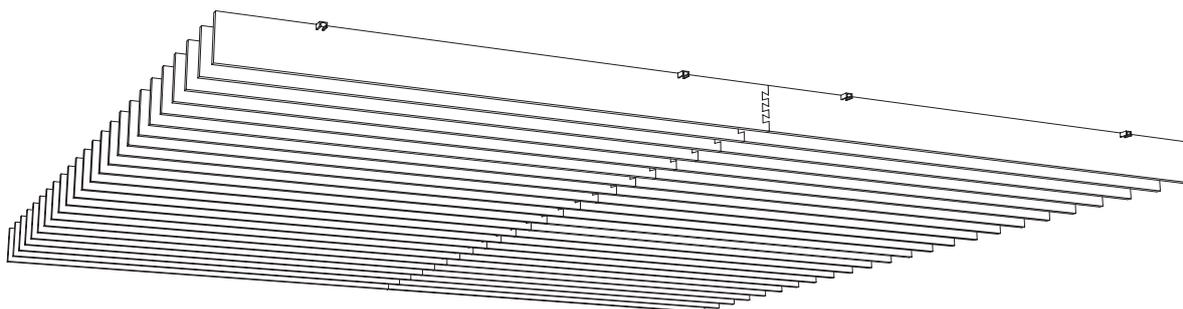
## Product Family Overview

### 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")

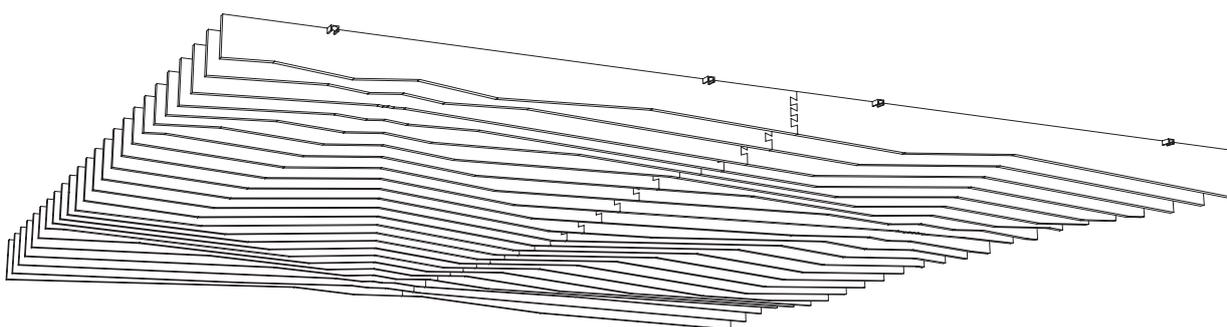
- 713.24.35.000.00 - Baffle Straight Bespoke (H300, S300) (H11.81" S11.81")
- 713.24.44.000.00 - Baffle Straight Bespoke (H200, S100) (H11.81", S3.94")
- 713.24.45.000.00 - Baffle Straight Bespoke (H300, S100) (H11.81", S3.94")



### 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")



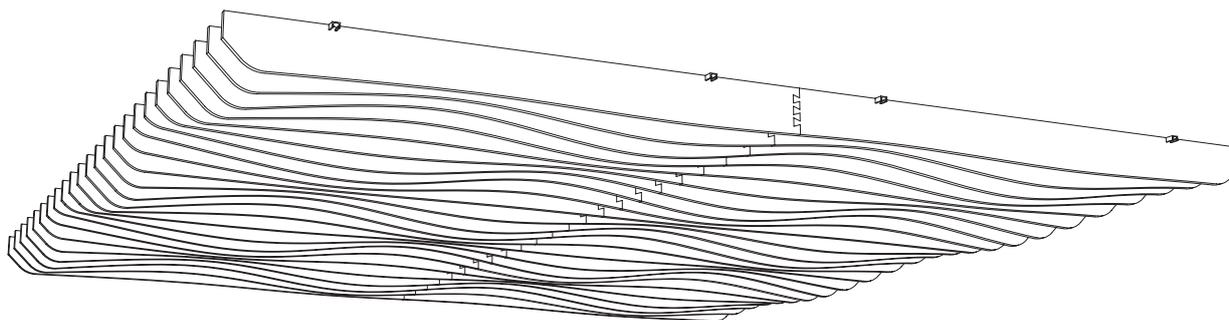
# Bespoke Baffle

## Product Family Overview

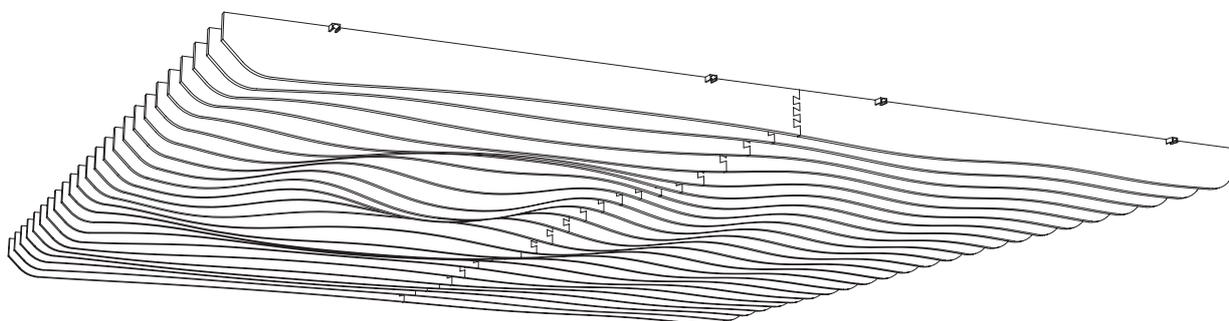
### 3 Bespoke Wave Baffles

 Customizable product

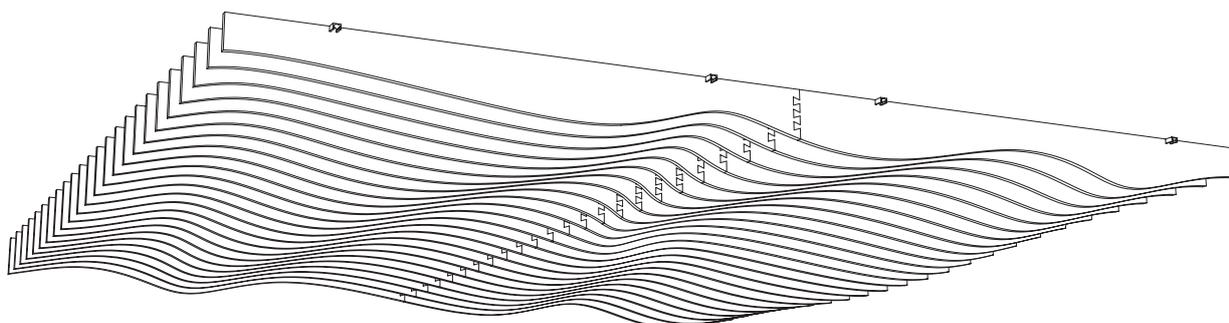
713.24.11.000.00 - Baffle Wave Sine (H150-250, S200) (H5.90"-9.84", S7.87")  
 713.24.31.000.00 - Baffle Wave Sine (H150-250, S300) (H5.90"-9.84", S11.81")



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")



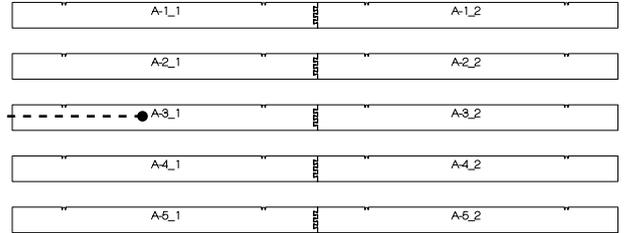
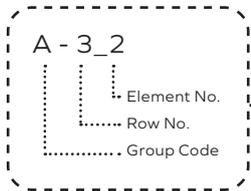
# Bespoke Baffle

## Installation Overview

 Extended document available

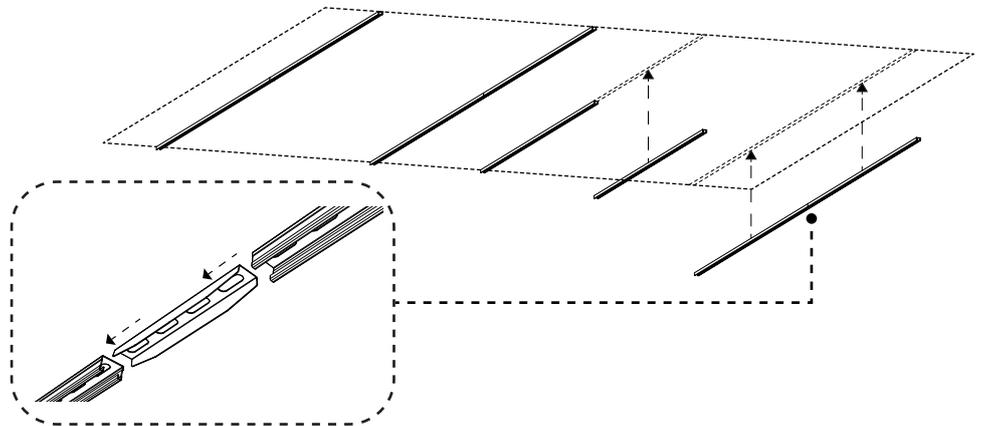
### 1 Verify and organize

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



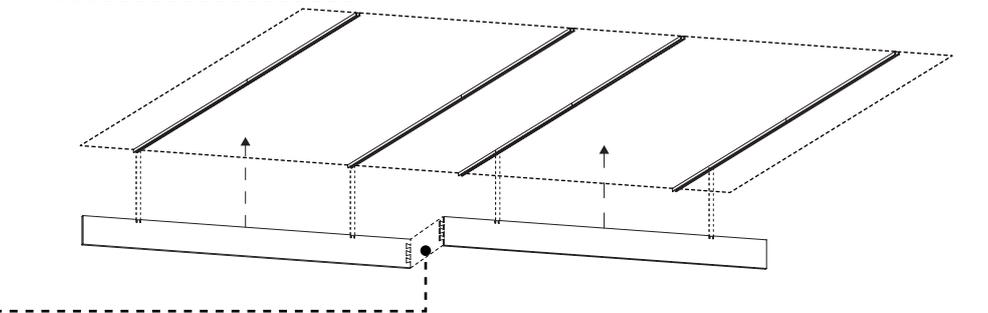
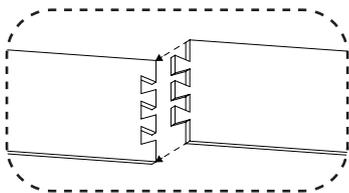
### 2 Install mounting hardware

Measure, mark and fix suspension hardware to your ceiling.



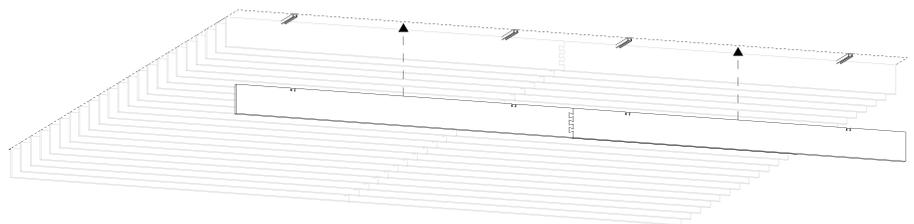
### 3 Install baffles

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.



# 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

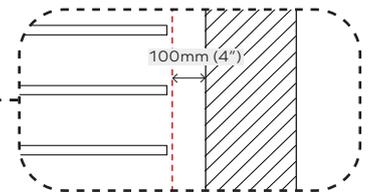
Verify if RCP drawings for the space are available. This will help plan for any obstacles like columns and air-ducts that might collide with the Baffles.

### 3 Additional considerations

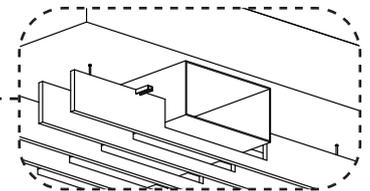
Consider access to high windows and doors.

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

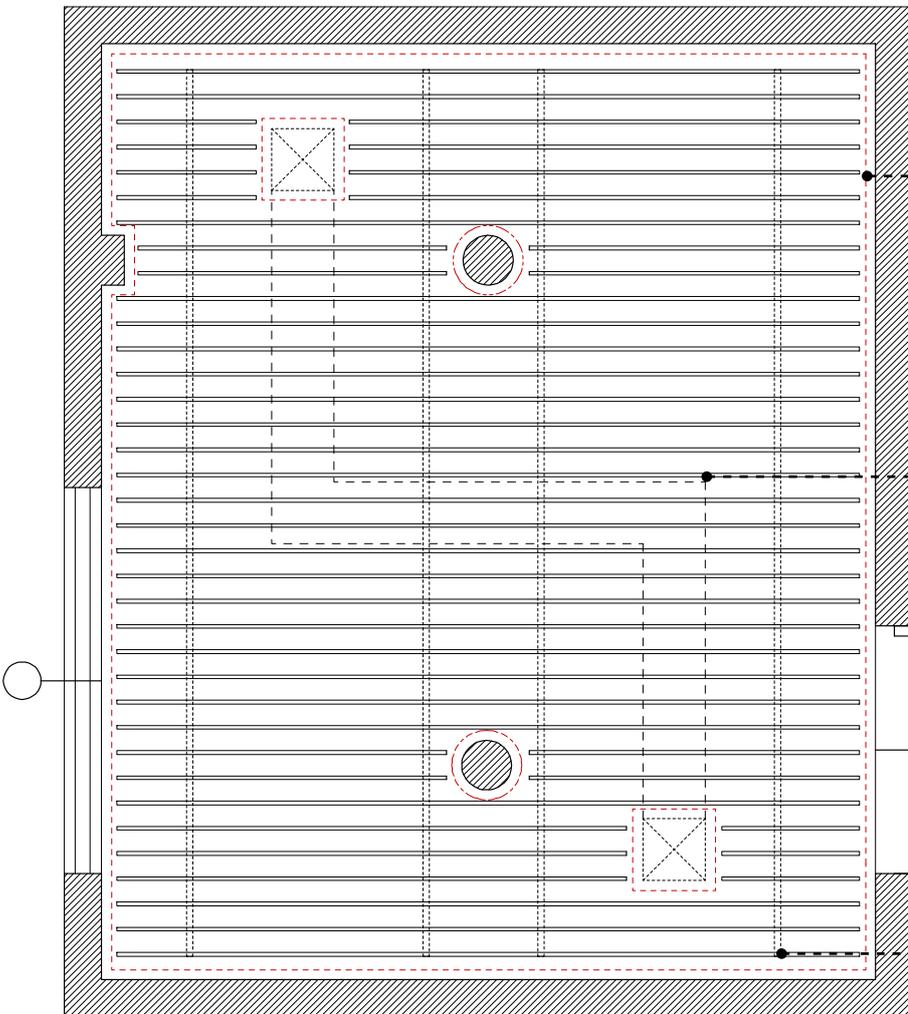
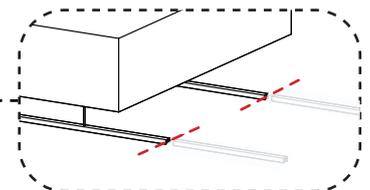
Plan for providing min. 100mm (4") safe space distance from Baffles to other elements



Consider possible cutouts for the air ducts.



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



RCP drawing example

# Bespoke Baffle Straight

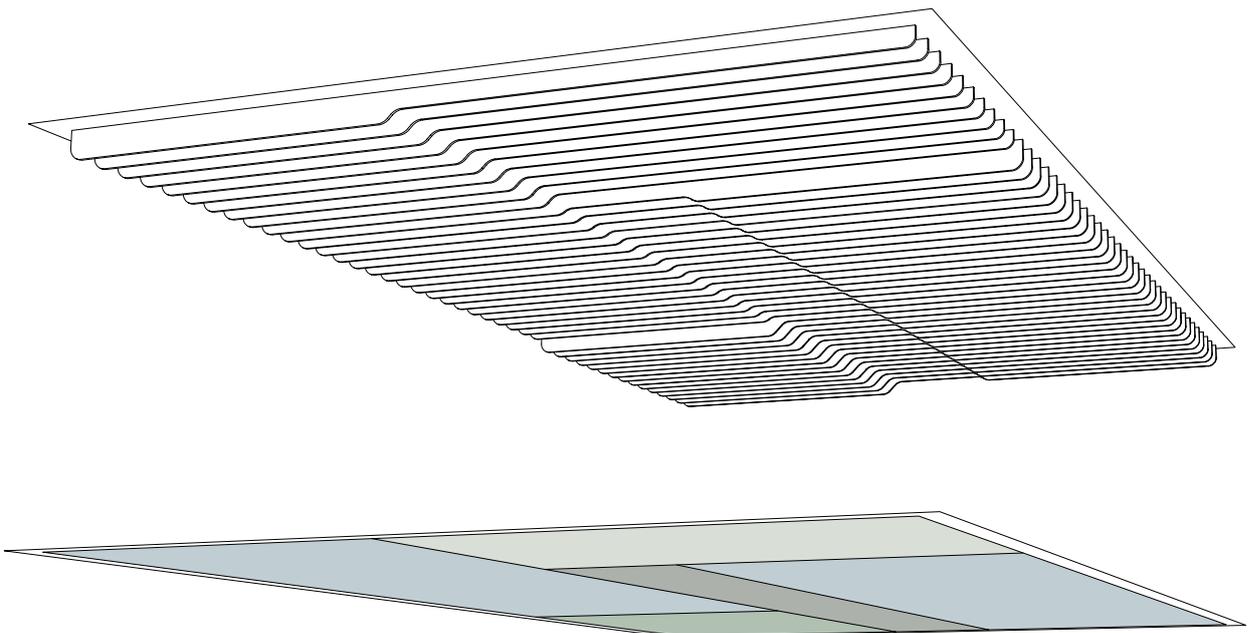
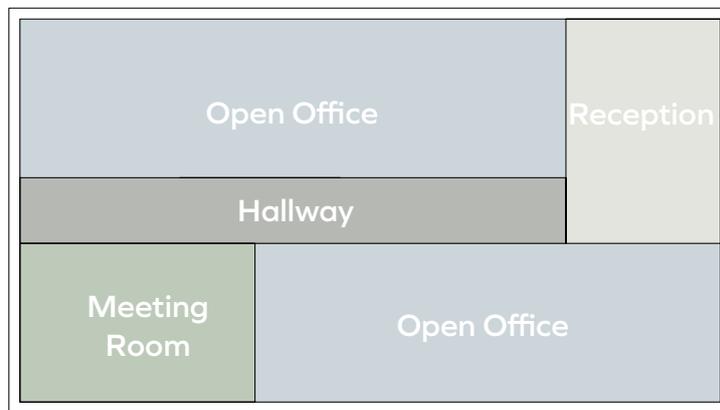
## Dynamic Zoning - Parametric Design Service

Reflecting your floor plan zoning onto a ceiling is now easier than ever. Thanks to our **Dynamic Zoning** Parametric Design Service you can define multiple areas for baffle height articulation within the continuous baffle run. Just provide our consultant with a floor plan with designated zones and we will take care of the rest.

For more information please [contact](#) our consultants.

### EXAMPLE IMPLEMENTATION:

■ Open Office - 250   ■ Hallway - 200   ■ Reception - 150   ■ Meeting Room - 350



# ARCHISONIC®

## Colours

 Material brochure available

									
<b>Name</b>	Snow White	Cloud	Smoke	Slate	Charcoal	Raven	Ground	Gull	Milk
<b>Code</b>	500	103	442	444	542	550	108	144	404
<b>NCS</b>	S 0300-N	S 1002-B	S 3005-R80B	S 4500-N	S 7502-B	S 8500-N	S 5005-Y20R	S 2502-Y	S 0502-Y
									
<b>Name</b>	Linen	Dune	Jute	Fallow	Warm Stone	Truffle	Sunshine	Honeycomb	Electric Orange
<b>Code</b>	107	104	920	238	105	539	846	139	464
<b>NCS</b>	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
									
<b>Name</b>	Terracotta	Soft Coral	Cinnabar	Shell Pink	Garnet	Poster Red	Hot Pink	Grape	Marine Blue
<b>Code</b>	239	516	725	102	724	662	140	540	864
<b>NCS</b>	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
									
<b>Name</b>	Midnight	Royal Blue	Winter Sky	Deep Sea	Nocturne	True Navy	Ice Blue	Pacific Ocean	Lagoon
<b>Code</b>	810	865	410	918	866	194	304	432	917
<b>NCS</b>	S 7020-R70B	S 3560-R80B	S 2020-R90B	S 5020-R90B	S 8010-R90B	S 8005-B	S 0510-B	S 3040-B	S 7020-B30G
									
<b>Name</b>	Succulent	Spearmint	Seafoam	Nordic Pine	Moss	Grove	Pistachio	Lichen	Fern
<b>Code</b>	712	706	710	311	439	317	315	160	180
<b>NCS</b>	S 3020-B30G	S 1010-B90G	S 3010-G30Y	S 5030-G10Y	S 2040-G40Y	S 7020-G30Y	S 5020-Y	S 4005-Y	S 6010-G90Y

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

## Colours

ARCHISONIC®

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® Riftcut Natural Collection

## Natural Collection colour sets

Riftcut Natural Collection (NC) is a natural wood shade extension to our bestselling Riftcut. Developed in collaboration with German veneer specialists Schotten & Hansen, ARCHISONIC® Riftcut NC introduces 3 different colour groups: elegant brights, essential mids and classical darks.



ELEGANT BRIGHTS



240 Pebble



241 Sunlit



242 Blush



ESSENTIAL MIDS



243 Malt



244 Honey



245 Mocha



CLASSICAL DARKS



246 Woodsmoke



247 Bourbon



248 Twilight

## Sustainable Ink

CP65 and RoHS3 compliant



## Order a free sample set



# ARCHISONIC® Felt

## 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> $\alpha_w$ =0.65	<b>ASTM:</b> NRC=0.9 <b>ISO:</b> $\alpha_w$ =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>Colour Fastness</b>	<b>Class 6</b> ISO 105-B02:A1	
<b>Colour</b>	<b>45 colours</b> (see ARCHISONIC® Felt Colour 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>Production 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>	28 Days French Regulation <b>A+</b> ASTM E84 <b>Pass</b> Breem® (International, UK, NL, SE, NOR) <b>Exemplary</b> CDPH (CDPH/EHLB/Standard Method V1.2) <b>Pass</b>	
<b>Certifications</b>	Declare label, Cradle to Cradle, UL Environmental Product Declaration, Member of US Green Building Council, Ecobau 1st Priority, Climate-KIC, VOC emissions in LEED EQ credit (low-emitting products), 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.**



# ARCHISONIC® Felt (Printed option)

## 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")	
<b>Max. Size</b>	1200x2800mm (47"x110")	
<b>Acoustic<sup>2, 4</sup></b>	<b>ASTM:</b> NRC=0.6 <b>ISO:</b> αw=0.65	
<b>Density<sup>1</sup></b>	2400 g/m <sup>2</sup> (0.49 lbs/ sqft)	
<b>Colour</b>	<b>33</b> printed finishes.	
<b>Maintenance</b>	To prevent dust and stains, regularly dust or vacuum with a soft brush. Avoid tools that might scratch the surface. Use mild detergents sparingly for tough stains, blotting instead of rubbing with a microfiber cloth. Test cleaning methods on a hidden area first to check for adverse effects.	
<b>Lead Time<sup>3, 4</sup></b>	21 days	
<b>Fire Rating<sup>4</sup></b>	DIN EN 13501-1: <b>B-s1, d0</b>	ASTM E84 <b>Class A</b>
<b>VOC Emission<sup>4</sup></b>	28 Days French Regulation <b>A+</b> ASTM E84 <b>Pass</b> Bream® (International, UK, NL, SE, NOR) <b>Exemplary</b> CDPH (CDPH/EHLB/Standard-Method V1.2) <b>Pass</b>	
<b>Certifications<sup>4</sup></b>	Declare label, Cradle to Cradle, UL Environmental Product Declaration, Member of US Green Building Council, Ecobau 1st Priority, Climate-KIC, VOC emissions in LEED EQ credit (low-emitting products), SCS Recycled Content	
<b>Ink Certifications</b>	UL Greenguard, No NVC, No VOCs, No TPO, Vegan, compliant with California Prop65 (CP65) and European Directive RoHS3	
<b>Durability</b>	Contract	

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



# Bespoke Baffle

## Acoustic Performance



### Testing 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
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

	$\alpha_w$	SAA	NRC
Ceiling Baffle, 100mm height, spaced 200mm on center	0.35 (H)	0.43	0.45
Ceiling Baffle, 200mm height, spaced 200mm on center	0.70 (MH)	0.96	0.95
Ceiling Baffle, 100mm height, spaced 300mm on center	0.30 (H)	0.27	0.25
Ceiling Baffle, 200mm height, spaced 300mm on center	0.50 (MH)	0.60	0.60

The NRC rating is calculated as the average of the absorption coefficients measured at frequencies of 250Hz, 500Hz, 1000Hz and 2000Hz and round to the nearest 0.05. SAA rating is calculated as the average of the sound absorption coefficients of a material for the twelve one-third octave bands from 200Hz through 2500Hz and rounded off to the nearest 0.01.

### Acoustic Performance

Frequency (Hz)		125	250	500	1000	2000	4000
Ceiling Baffle, 100mm height, spaced 200mm on center <sup>1</sup>	$\alpha_p$	0.05	0.15	0.30	0.50	0.75	0.90
Ceiling Baffle, 200mm height, spaced 200mm on center <sup>1</sup>	$\alpha_p$	0.15	0.45	0.70	1.10	1.60	1.75
Ceiling Baffle, 100mm height, spaced 300mm on center <sup>1</sup>	$\alpha_p$	0.05	0.10	0.20	0.35	0.45	0.55
Ceiling Baffle, 200mm height, spaced 300mm on center <sup>1</sup>	$\alpha_p$	0.10	0.30	0.45	0.70	1.00	1.10

1 - Measured with 200mm airgap between the solid backing and the baffle surface

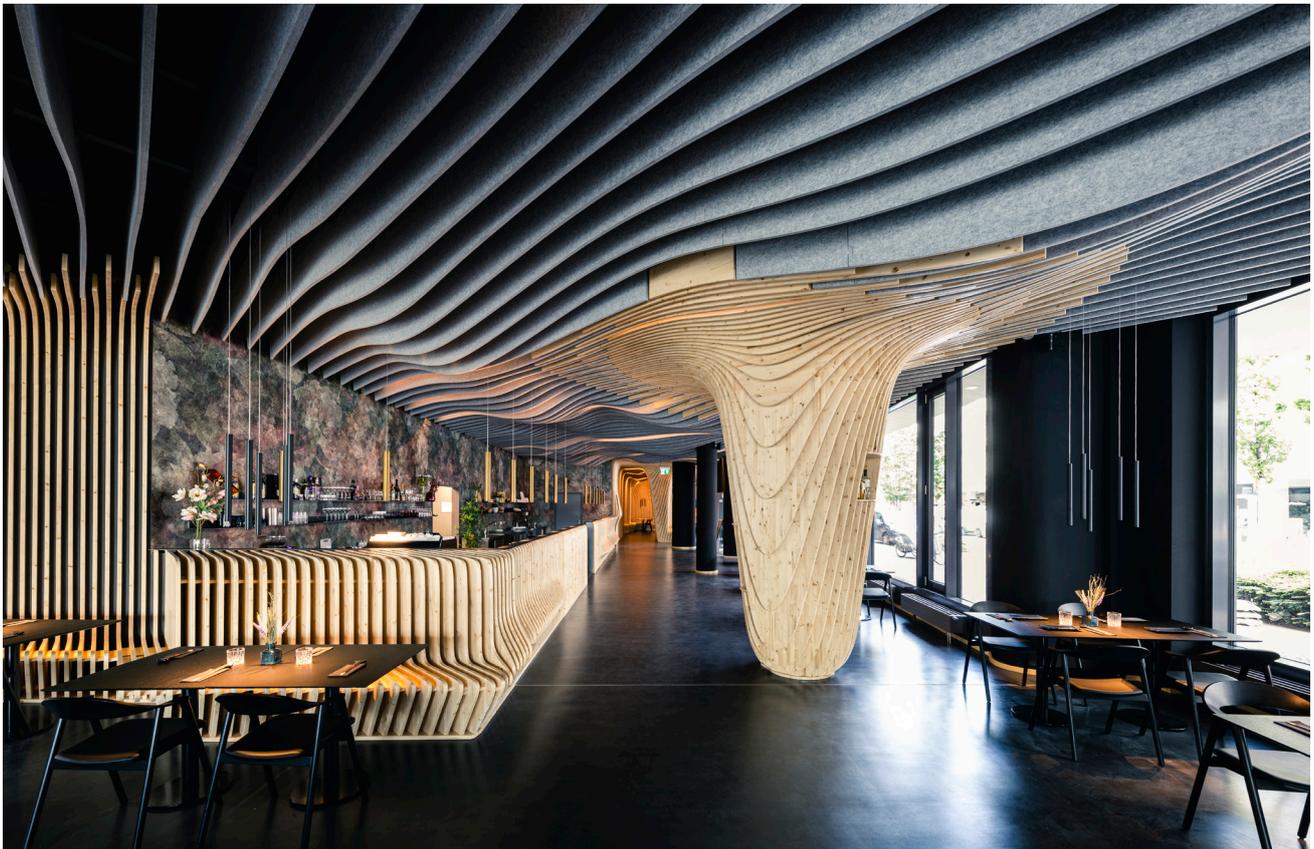
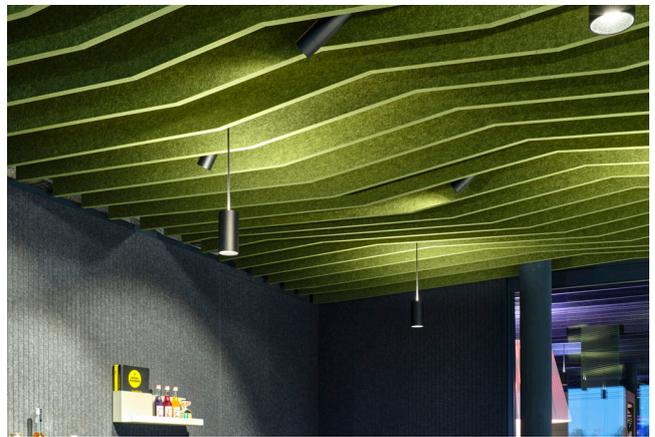


- Ceiling Baffle, 100mm height, spaced 200mm on center
- Ceiling Baffle, 200mm height, spaced 200mm on center
- Ceiling Baffle, 100mm height, spaced 300mm on center
- Ceiling Baffle, 200mm height, spaced 300mm on center

The table represents the practical sound absorption coefficient ( $\alpha_p$ ) in accordance with ISO 11654. The graph represents the sound absorption coefficients ( $\alpha_s$ ) in the third octave band center frequencies in accordance with ISO 354. The sound absorption coefficient presented is calculated from the total surface area covered by the test sample. The results provided are limited to the specific configuration, and any modifications to the configuration will affect the resulting values.

# Bespoke Baffle

## Reference Projects



# Bespoke Baffle

## Additional Information

### Online Resources

A variety of resources are available online for all of our products. Please visit the product's page for more information.



CAD files



Spec sheets and  
Installation Guide



Colour families



Instruction  
videos



Associated  
products specs

### Ordering Process

Our experienced team of Project Consultants will guide and support you throughout the order process. We fulfill the majority of our orders in as little as 21 days<sup>1</sup> from your first point of contact, allowing you to focus on what truly matters to you.



Contact our  
consultant

Quote<sup>1</sup>

48h



Order Confirmation

Production<sup>1</sup>

14-21 days



Dispatch

Transit

location based



Delivery

### Contact Us

Ready to make an impact? We are just an email or call away to discuss your project and answer any question.



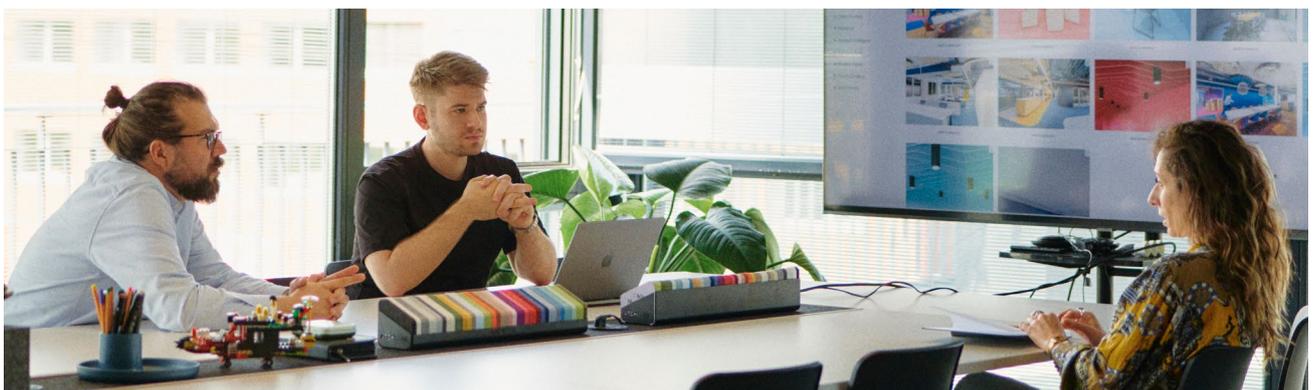
+41 41 244 14 00



connect@impactacoustic.com



Online form



<sup>1</sup> - Quote and Production times may vary.

**#We  
Make An  
Impact**

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