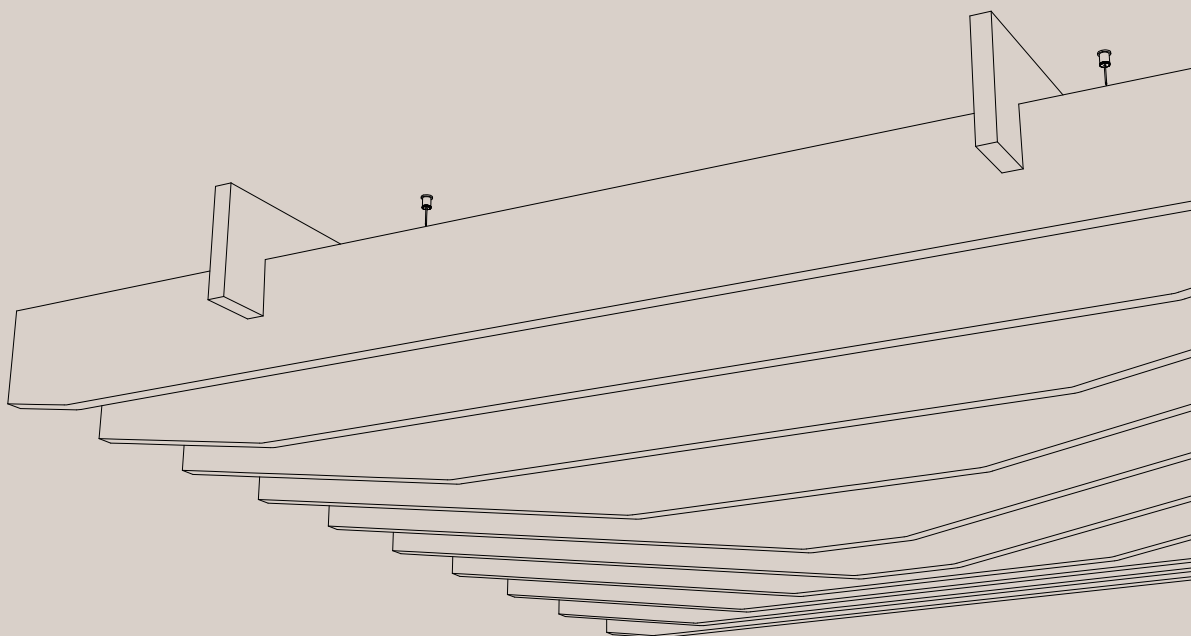


IMPACT ACOUSTIC®



# Modular Baffles

712.24.10.000.00

712.24.11.000.00

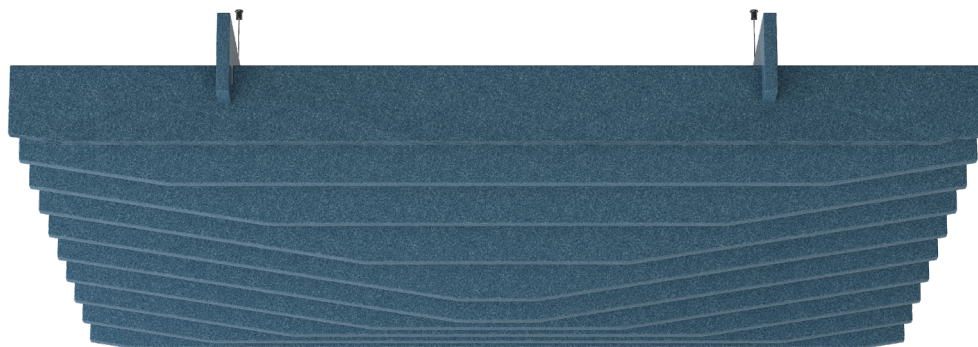
712.24.12.000.00

712.24.13.000.00

TECHNICAL DATA SHEET

# Modular Baffles

## General Information



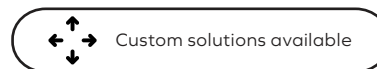
### Data

#### Applicable article numbers

712.24.10.000.00      712.24.11.000.00      712.24.12.000.00      712.24.13.000.00

#### Dimensions<sup>1</sup>

Width	1800mm	70.87"
Length	1800mm	70.87"
Material thickness	24mm	0.94"
Total Height	280-340mm	11.02-13.39"



#### Material

Baffles	100% PET (60% post-consumer) in 36 colours.
Gripper system	Steel

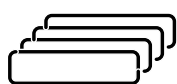


#### Weight<sup>2</sup>

712.24.10.000.00	16.76 kg (±10%)	36.95 lbs (±10%)	( without suspension )
712.24.11.000.00	14.4 kg (±10%)	31.75 lbs (±10%)	( without suspension )
712.24.12.000.00	12.4 kg (±10%)	27.34 lbs (±10%)	( without suspension )
712.24.13.000.00	14.32 kg (±10%)	31.57 lbs (±10%)	( without suspension )

### Included

Baffle Module



Cable-Gripper Suspension



Installation guide



Warranty 10 years<sup>3</sup>



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

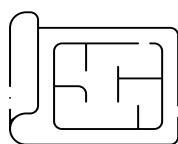
# Modular Baffles

## 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:

---



Ceiling Plans (RCP)

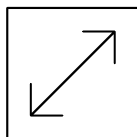


Other Considerations

page 1-2

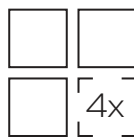
### 2 Specify your Baffles:

---



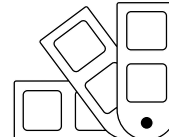
Size

page 5-8



Number of Modules

page 4

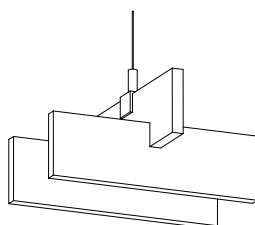


Colour

page 9

### 3 Verify installation method:

---



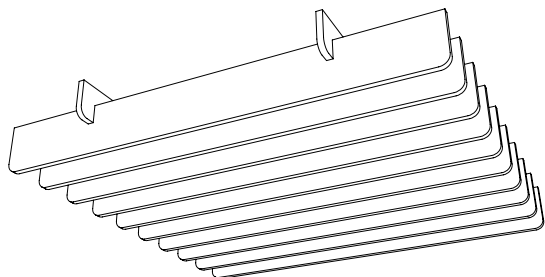
Gripper + Slotted  
Baffle

# Modular Baffles

## Product Family Overview

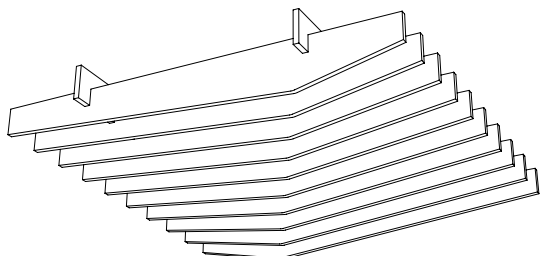
### 1 Standard Straight Baffle

712.24.10.000.00 - Ceiling Baffle Straight Modular (W1800 L1800, H280)  
(W70.87", L70.87", H11.02")

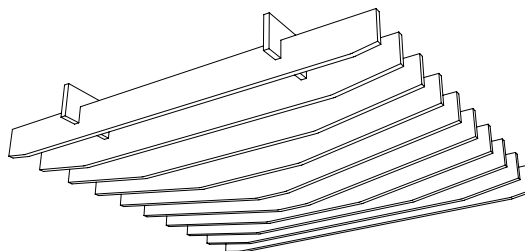


### 2 Standard Polygonal Baffle

712.24.11.000.00 - Ceiling Baffle Edge Modular (W1800 L1800, H300)  
(W70.87", L70.87", H11.81")

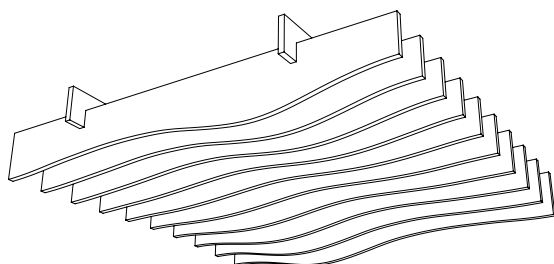


712.24.13.000.00 - Ceiling Baffle Peak Modular (W1800 L1800, H340)  
(W70.87", L70.87", H 13.39")



### 3 Standard Wave Baffle

712.24.12.000.00 - Ceiling Baffle Wave Modular (W1800 L1800, H320)  
(W70.87", L70.87", H 12.60")

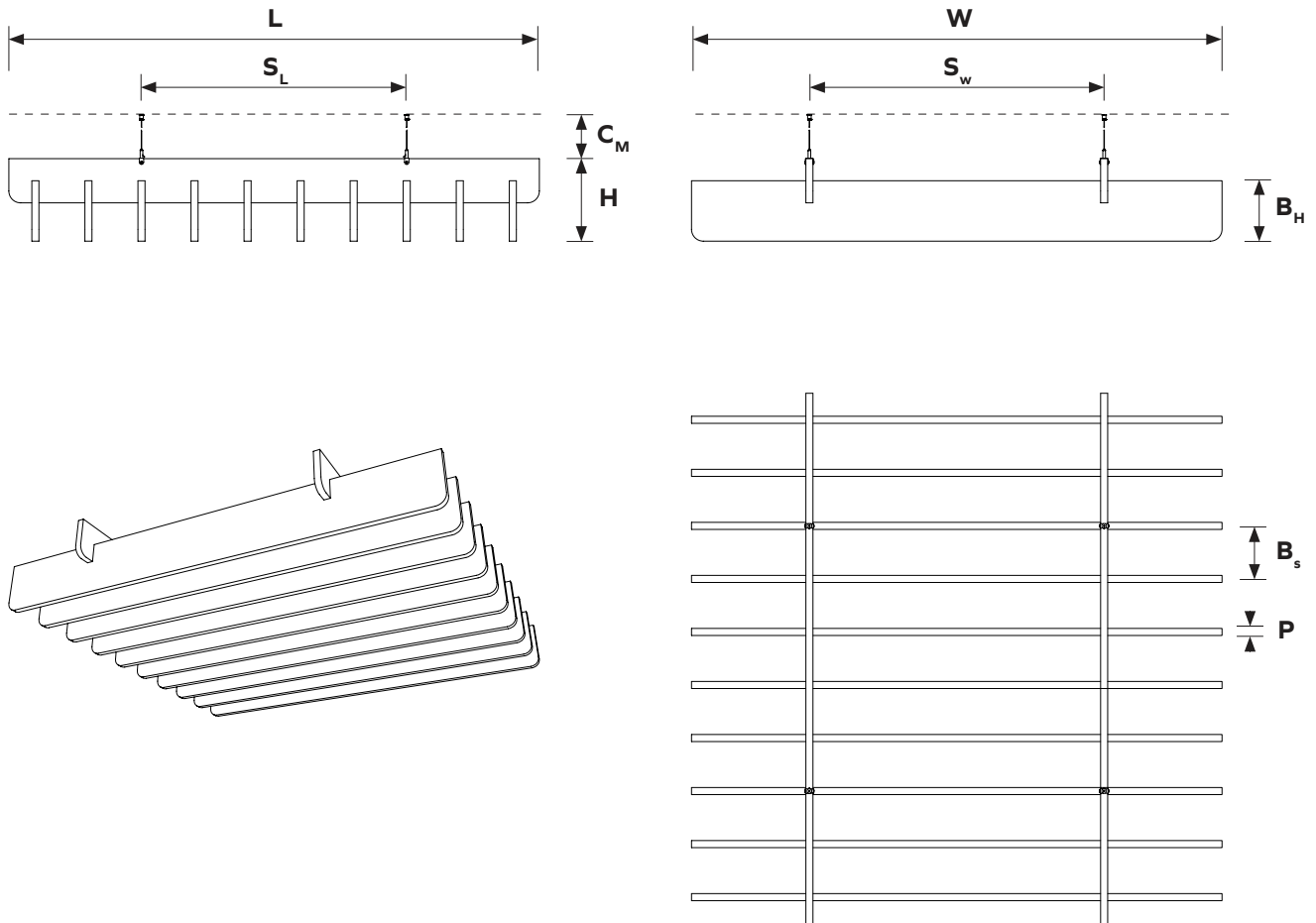


# Modular Baffles

## Geometry Information

Custom solutions available

### Ceiling Baffle Straight Modular 712.24.10.0000.00



#### Dimensions table

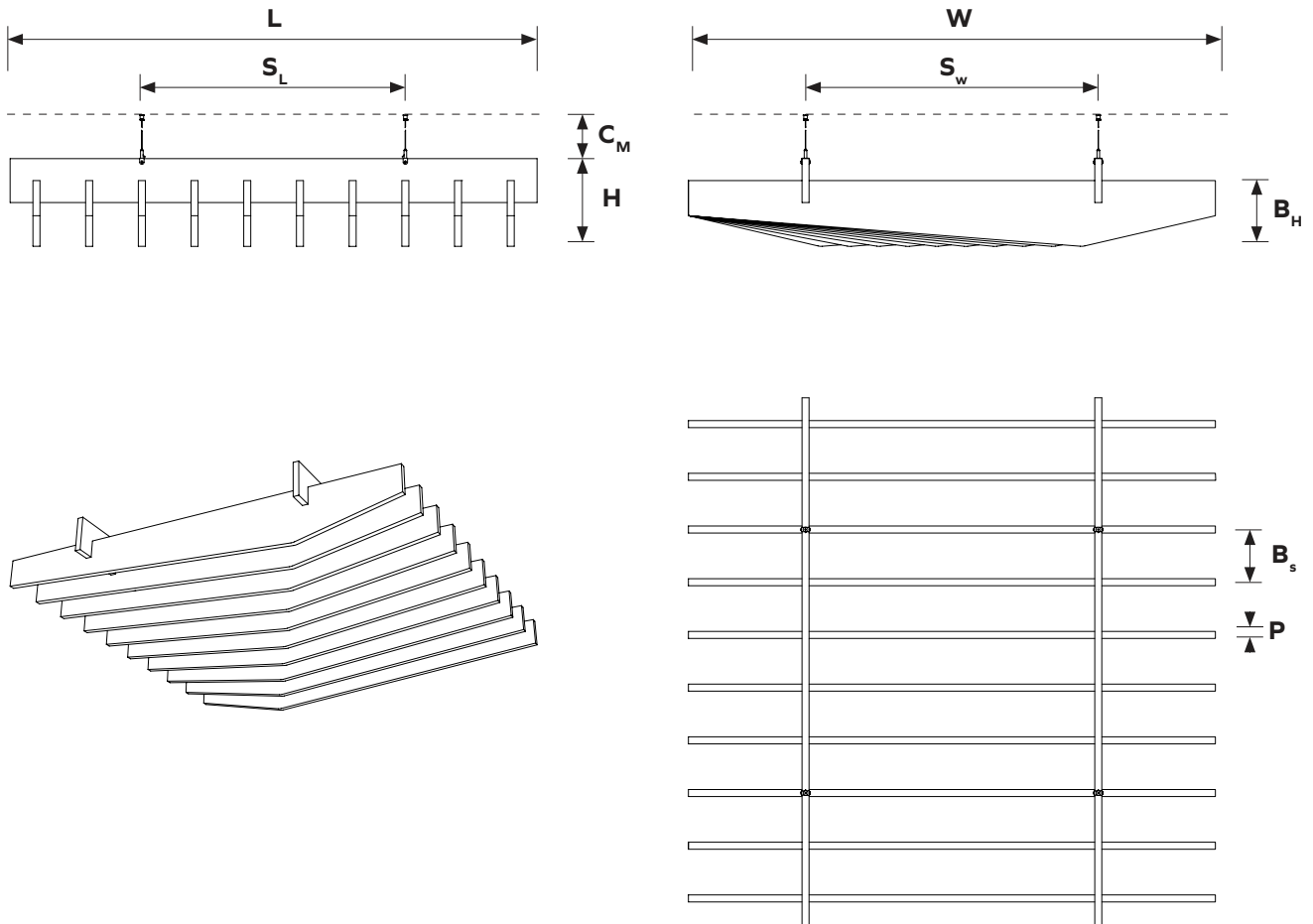
<b>W</b>	Total width	1800mm	70.87"
<b>L</b>	Total length	1800mm	70.87"
<b>H</b>	Total height	280mm	11.02"
<b>B<sub>H</sub></b>	Bottom baffle height	205mm	8.07"
<b>B<sub>s</sub></b>	Baffle spacing	180mm	7.09"
<b>D</b>	Distance from ceiling	min. 100mm	min. 4"
<b>S<sub>w</sub></b>	Support spacing W	1000mm	39.37"
<b>S<sub>L</sub></b>	Support spacing L	900mm	35.43"
<b>P</b>	PET material thickness	24mm	0.94"

# Modular Baffles

## Geometry Information

Custom solutions available

### Ceiling Baffle Edge Modular 712.24.11.000.00



#### Dimensions table

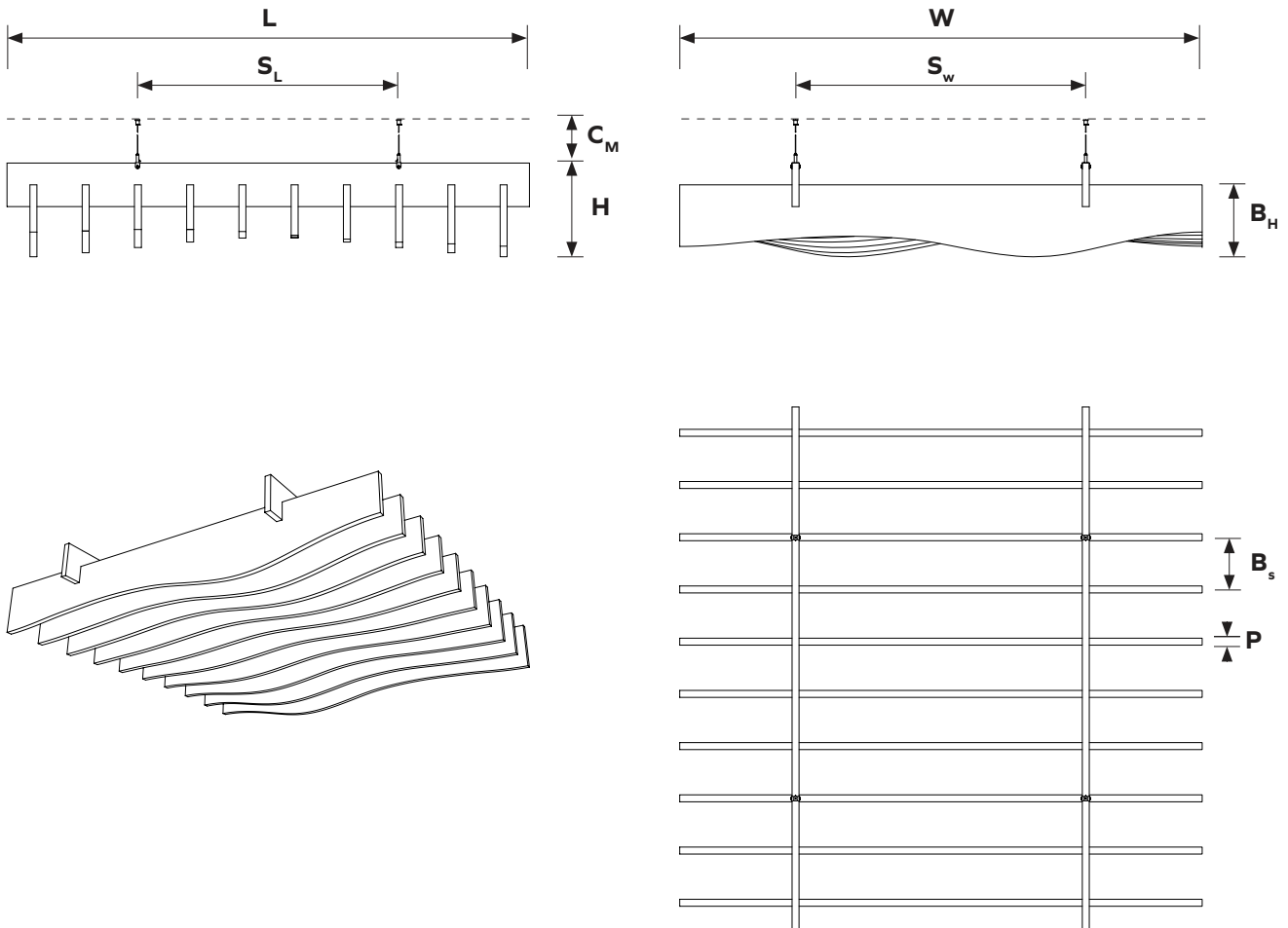
<b>W</b>	Total width	1800mm	70.87"
<b>L</b>	Total length	1800mm	70.87"
<b>H</b>	Total height	300mm	11.81"
<b>B<sub>H</sub></b>	Bottom baffle height	225mm	8.86"
<b>B<sub>s</sub></b>	Baffle spacing	180mm	7.09"
<b>D</b>	Distance from ceiling	min. 100mm	min. 4"
<b>S<sub>w</sub></b>	Support spacing W	1000mm	39.37"
<b>S<sub>L</sub></b>	Support spacing L	900mm	35.43"
<b>P</b>	PET material thickness	24mm	0.94"

# Modular Baffles

## Geometry Information

Custom solutions available

### Ceiling Baffle Wave Modular 712.24.12.000.00



#### Dimensions table

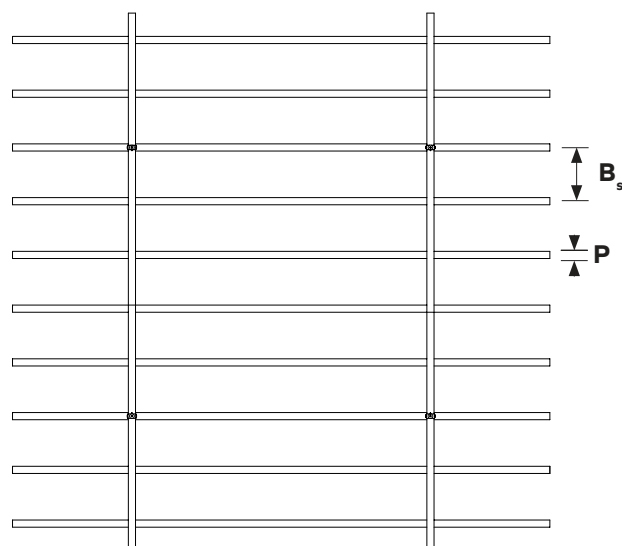
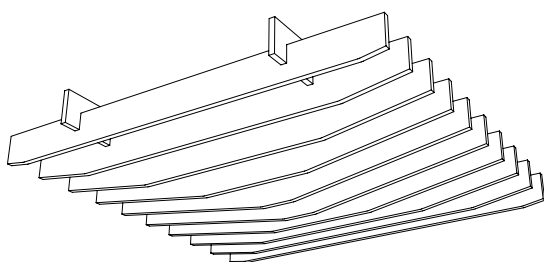
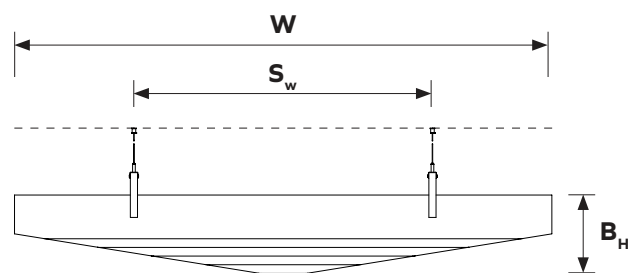
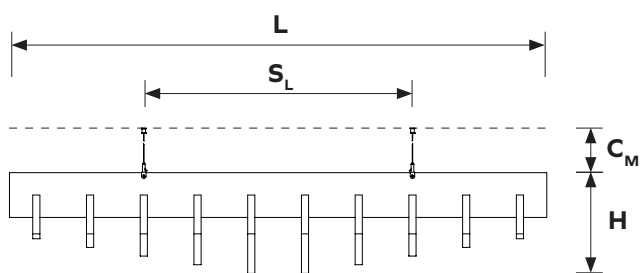
<b>W</b>	Total width	1800mm	70.87"
<b>L</b>	Total length	1800mm	70.87"
<b>H</b>	Total height	323mm	12.72"
<b>B<sub>H</sub></b>	Bottom baffle height	248mm	9.76"
<b>B<sub>s</sub></b>	Baffle spacing	180mm	7.09"
<b>D</b>	Distance from ceiling	min. 100mm	min. 4"
<b>S<sub>w</sub></b>	Support spacing W	1000mm	39.37"
<b>S<sub>L</sub></b>	Support spacing L	900mm	35.43"
<b>P</b>	PET material thickness	24mm	0.94"

# Modular Baffles

## Geometry Information

Custom solutions available

### Ceiling Baffle Peak Modular 712.24.13.000.00




#### Dimensions table

<b>W</b>	Total width	1800mm	70.87"
<b>L</b>	Total length	1800mm	70.87"
<b>H</b>	Total height	337mm	13.27"
<b>B<sub>H</sub></b>	Bottom baffle height	262mm	10.32"
<b>B<sub>s</sub></b>	Baffle spacing	180mm	7.09"
<b>D</b>	Distance from ceiling	min. 100mm	min. 4"
<b>S<sub>w</sub></b>	Support spacing W	1000mm	39.37"
<b>S<sub>L</sub></b>	Support spacing L	900mm	35.43"
<b>P</b>	PET material thickness	24mm	0.94"

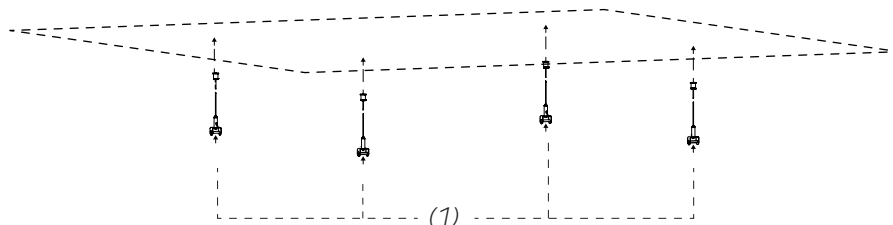
# Modular Baffles

## Installation Overview

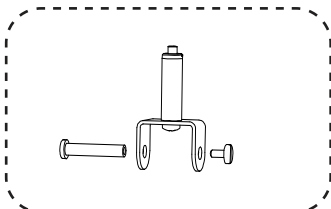
 Extended document available

### 1 Attach mounting hardware

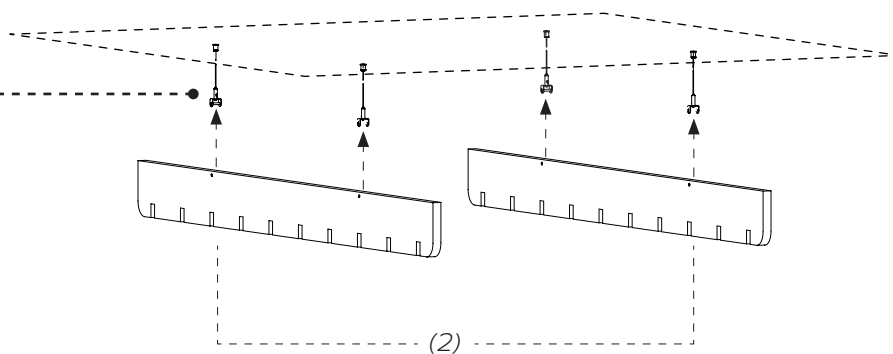
Attach 4 pieces of mounting cables (1) to the ceiling.



### 2 Install upper Baffles

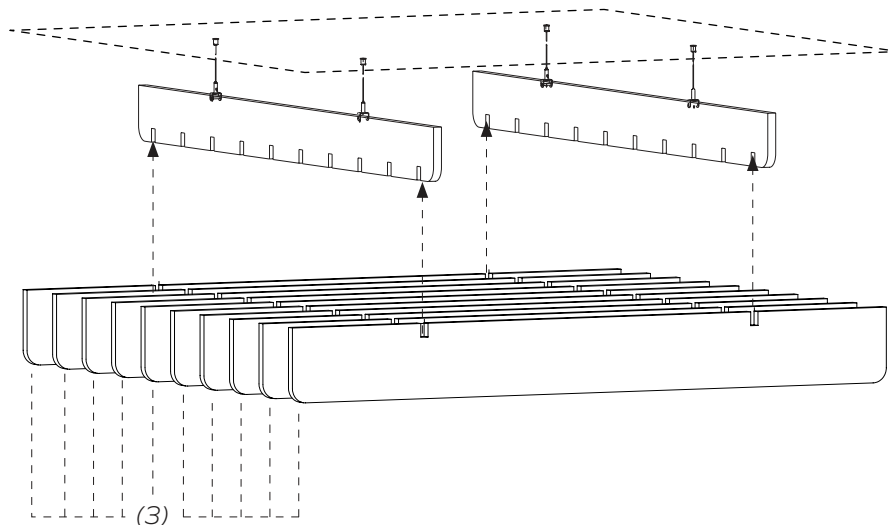


Attach slotted upper baffles (2) to the gripper connectors. Secure the baffles with provided screws. Adjust the lift of the baffles using the cable gripper.













### 3 Install lower Baffles







Push in lower Baffles (3) into slots provided in a upper baffles.












# ARCHISONIC® Felt Colours

 Material brochure available

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

									
<b>Name</b>	Nordic Pine	Grove	Fern	Moss	Spearmint	Ice Blue	Succulent	Deep Sea	True Navy
<b>Code</b>	311	317	180	439	706	304	712	918	194
<b>NCS</b>	S 5030-G10Y	S 7020-G30Y	S6010-G90Y	S 2040-G40Y	S 1010-B90G	S 0510-B	S 3020-B30G	S 5020-R90B	S8005-B

									
<b>Name</b>	Lichen	Linen	Shell Pink	Jute	Warm Stone	Terracotta	Soft Coral	Honeycomb	Sunshine
<b>Code</b>	160	107	102	920	105	239	516	139	846
<b>NCS</b>	S4005-Y	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	Marine Blue
<b>Code</b>	724	140	662	464	410	432	810	540	864
<b>NCS</b>	S 5040-R10B	S 2060-R20B	S 1080-R	S 0580-Y70R	S 2020-R90 B	S 3040-B	S 7020-R70B	S 5040-R40B	S 4050-R70B

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 36 colours across 8 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® 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>36 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> Bream® (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, Climmate-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.**

**DANAK**  
TEST Reg.nr. 522



# Modular Baffles

## Acoustic Performance



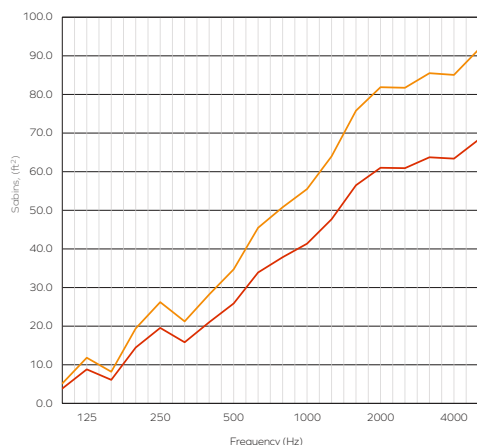
### Testing Standards

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	0.7 (MH)	0.96	0.95
Ceiling Baffle, 100mm height, spaced 300mm on center	0.3 (H)	0.32	0.30
Ceiling Baffle, 200mm height, spaced 300mm on center	0.6 (MH)	0.72	0.70

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. These single number values are calculated using the sound absorption coefficient of the ceiling baffles per area covered.

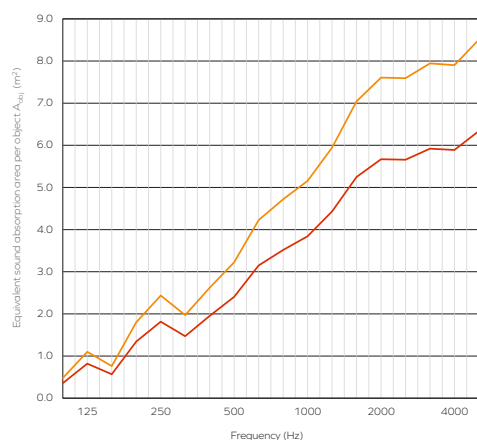


### Acoustic Performance - ASTM Sabins , ft<sup>2</sup>

Frequency (Hz)	125	250	500	1000	2000	4000
Nebula Modular Baffle Small	6.46	16.15	26.91	41.98	59.20	65.66
Nebula Modular Baffle Big	8.61	22.60	36.60	57.05	79.65	87.19

The graph represents the Sabins (ft<sup>2</sup>) in the third octave band center frequencies in accordance with ASTM C423.

- Nebula Modular Baffle Small
- Nebula Modular Baffle Big



### Acoustic Performance - ISO A<sub>obj</sub> , m<sup>2</sup>

Frequency (Hz)	125	250	500	1000	2000	4000
Nebula Modular Baffle Small	0.6	1.5	2.5	3.9	5.5	6.1
Nebula Modular Baffle Big	0.8	2.1	3.4	5.3	7.4	8.1

The graph represents the equivalent sound absorption area per object (A<sub>obj</sub>) in the third octave band center frequencies in accordance with ISO 20189. Measurement used Pink Noise as excitation signal in a reverberant room.

- Nebula Modular Baffle Small
- Nebula Modular Baffle Big

# Modular Baffles

## Reference Projects



# Modular Baffles

## 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.



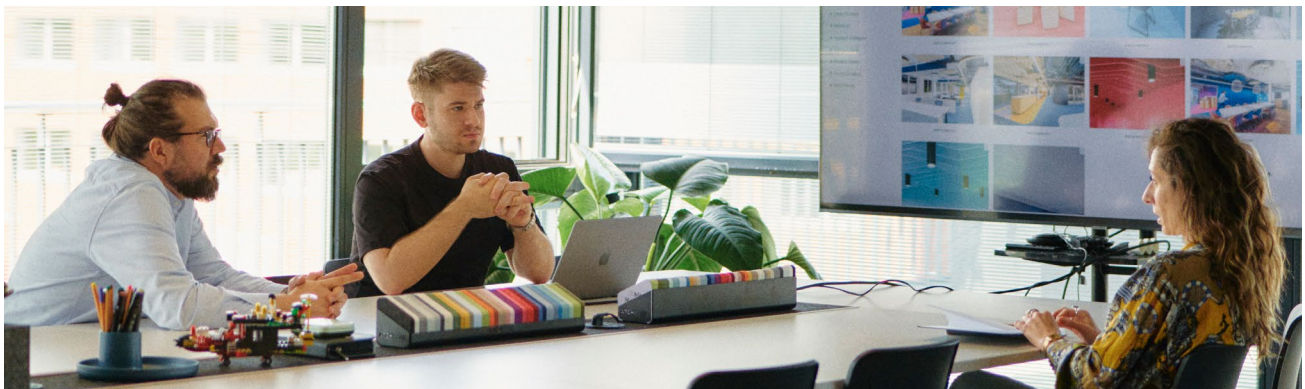
+41 41 244 14 00



connect@impactacoustic.com



Online form



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

**#We  
Make An  
Impact**

[connect@impactacoustic.com](mailto:connect@impactacoustic.com) | [www.impactacoustic.com](http://www.impactacoustic.com)