IMPACT ACOUSTIC®

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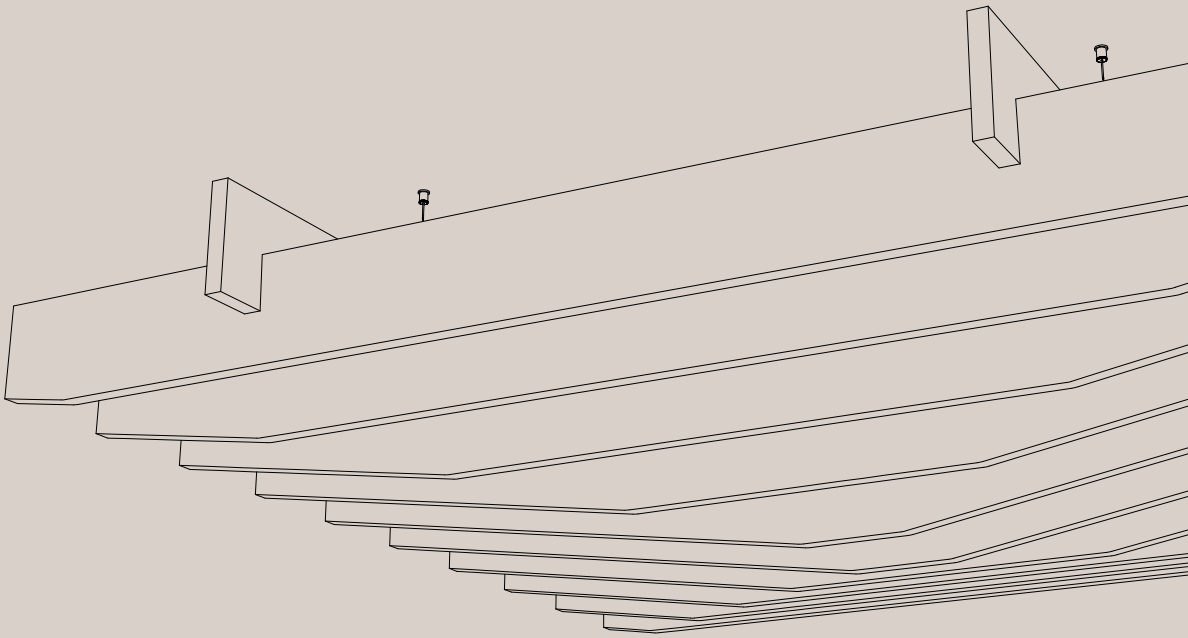

Modular Baffles

712.24.10.000.00
712.24.11.000.00
712.24.12.000.00
712.24.13.000.00

TECHNICAL DATA SHEET

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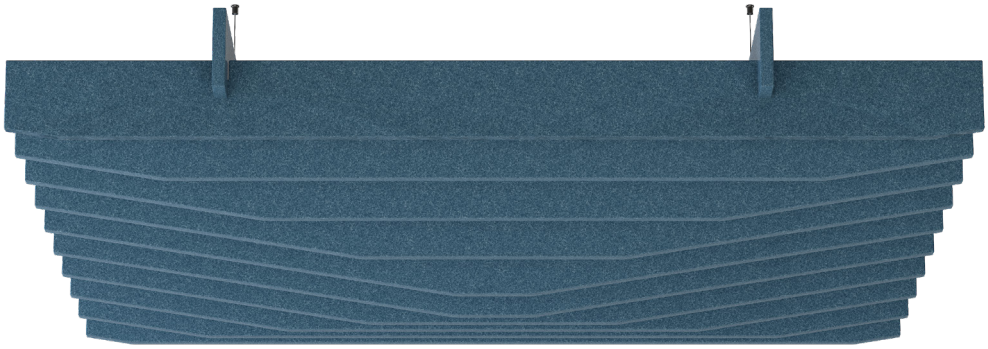
Modular Baffles
General Information



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[1]

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

Custom solutions available

Material

Baffles	100% PET (60% post-consumer) in 32 colors.
Gripper system	Steel

Extended document available

Weight[2]

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 Suspention

Installation guide

Warranty 2 years[2]

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

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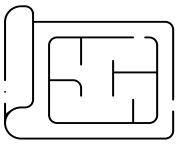
Modular Baffles
Specification Guide

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:

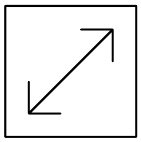


Ceiling Plans (RCP)

Other Considerations

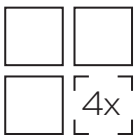
page 1-2

2 Specify your Baffles:



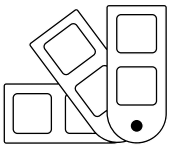
Size

page 5-8



Number of Modules

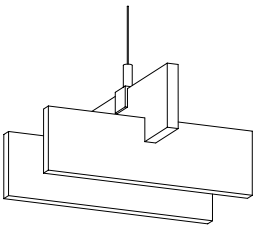
page 4



Color

page 9

3 Verify installation method:



Gripper + Slotted Baffle

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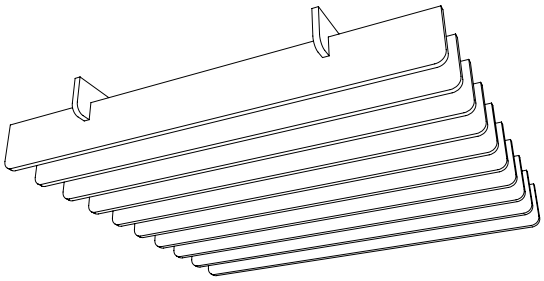
Modular Baffles
Product Family Overview

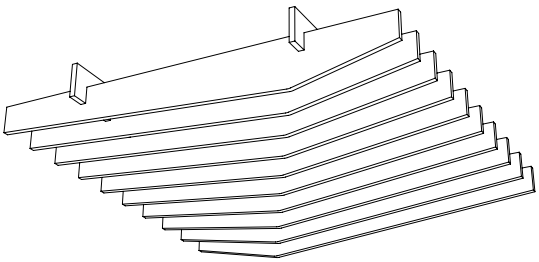
1 Standard Straight Baffle

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

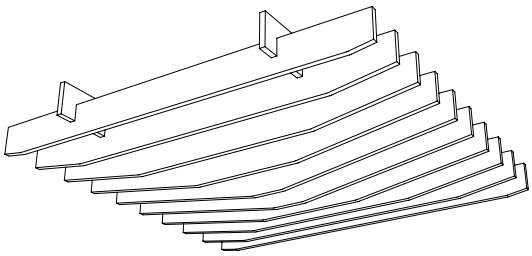


2 Standard Polygonal Baffle

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

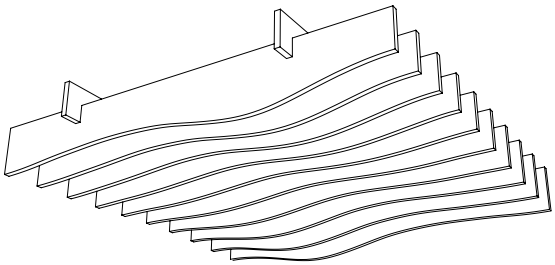


712.24.13.000.00 - Ceiling Baffle Peak Modular (W1800 L1800, H340)
(W70.87", L70.87", H 13.39")



3 Standard Wave Baffle

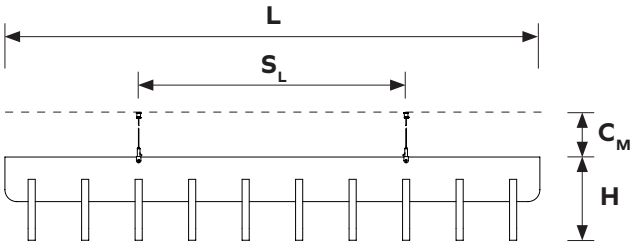
712.24.12.000.00 - Ceiling Baffle Wave Modular (W1800 L1800, H320)
(W70.87", L70.87", H 12.60")

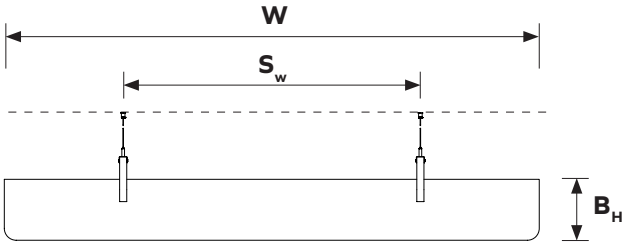


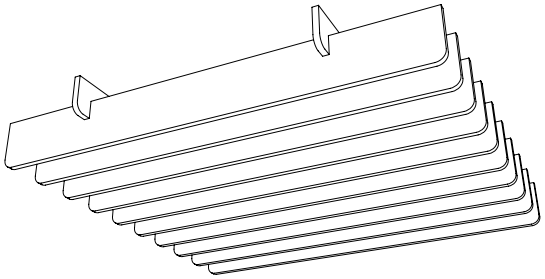
Modular Baffles
Geometry Information

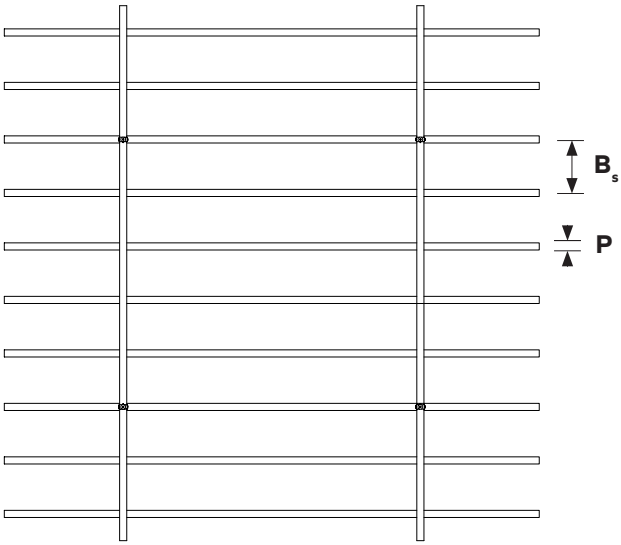
Custom solutions available

Ceiling Baffle Straight Modular 712.24.10.000.00









Dimensions table

W	Total width	1800mm	70.87″
L	Total length	1800mm	70.87″
H	Total height	280mm	11.02″
B_H	Bottom baffle height	205mm	8.07″
B_S	Baffle spacing	180mm	7.09″
D	Distance from ceiling	min. 100mm	min. 4″
S_W	Support spacing W	500mm	19.68″
S_L	Support spacing L	275mm	10.83″
P	PET material thickness	24mm	0.94″

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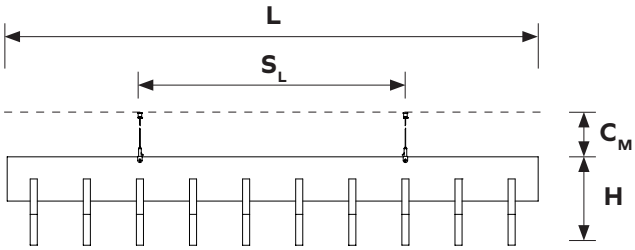
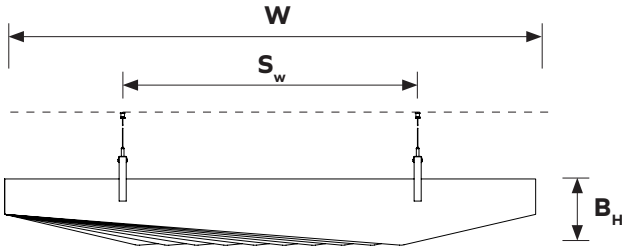
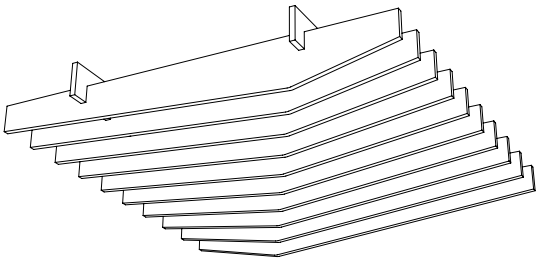
Modular Baffles
Geometry Information

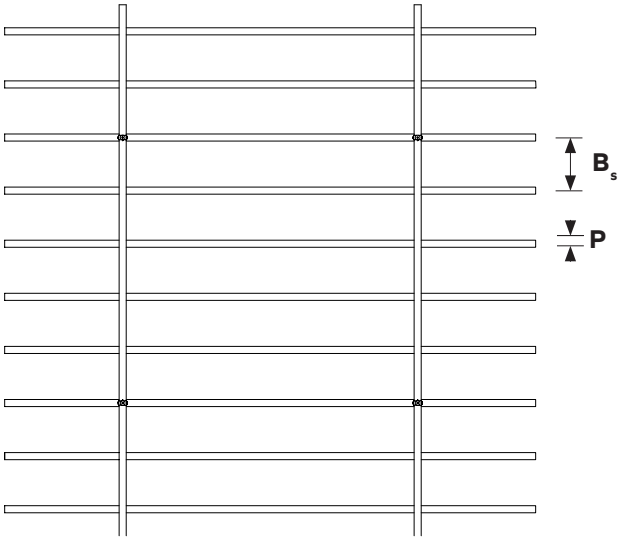
Custom solutions available

Ceiling Baffle Edge Modular 712.24.11.000.00









Dimensions table

W	Total width	1800mm	70.87″
L	Total length	1800mm	70.87″
H	Total height	300mm	11.81″
B_H	Bottom baffle height	225mm	8.86″
B_S	Baffle spacing	180mm	7.09″
D	Distance from ceiling	min. 100mm	min. 4″
S_W	Support spacing W	500mm	19.68″
S_L	Support spacing L	275mm	10.83″
P	PET material thickness	24mm	0.94″

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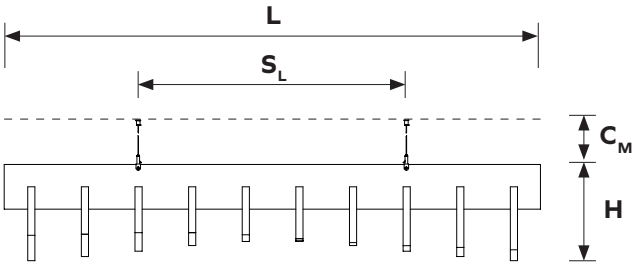
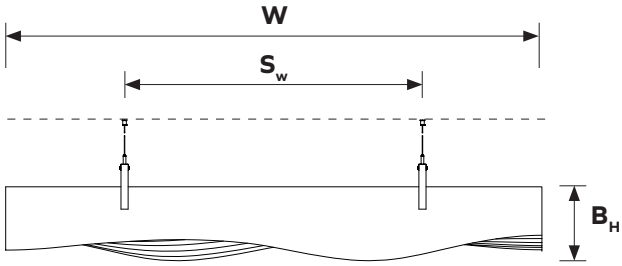
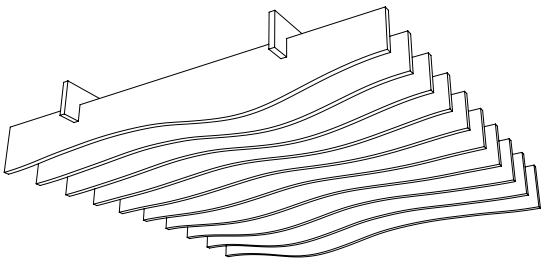
Modular Baffles
Geometry Information

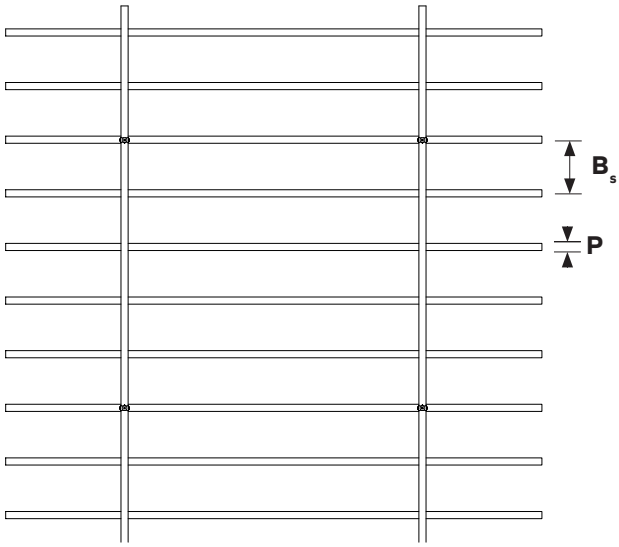
Custom solutions available

Ceiling Baffle Wave Modular 712.24.12.000.00









Dimensions table

W	Total width	1800mm	70.87″
L	Total length	1800mm	70.87″
H	Total height	323mm	12.72″
B_H	Bottom baffle height	248mm	9.76″
B_S	Baffle spacing	180mm	7.09″
D	Distance from ceiling	min. 100mm	min. 4″
S_W	Support spacing W	500mm	19.68″
S_L	Support spacing L	275mm	10.83″
P	PET material thickness	24mm	0.94″

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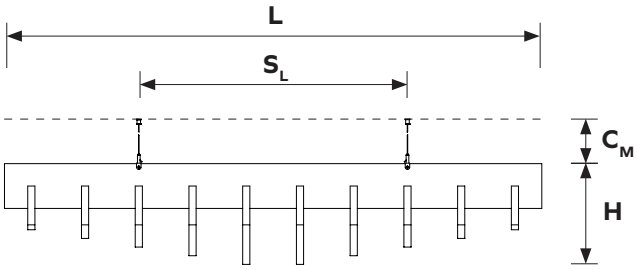
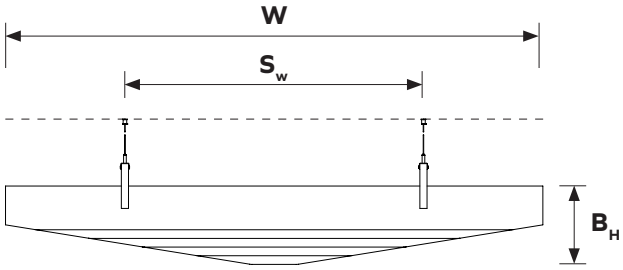
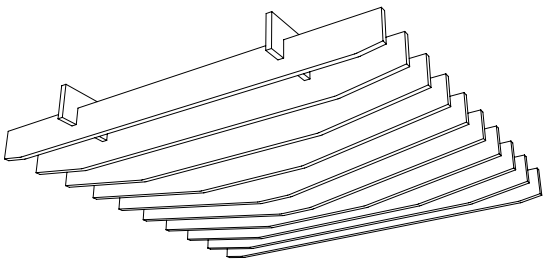
Modular Baffles
Geometry Information

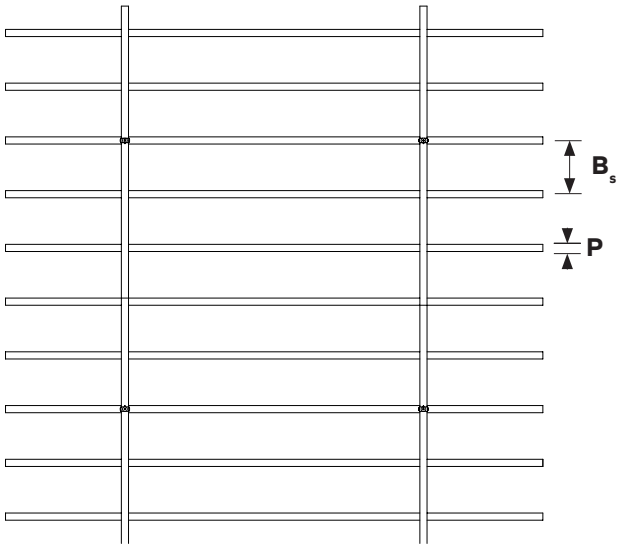
Custom solutions available

Ceiling Baffle Peak Modular 712.24.13.000.00









Dimensions table

W	Total width	1800mm	70.87″
L	Total length	1800mm	70.87″
H	Total height	337mm	13.27″
B_H	Bottom baffle height	262mm	10.32″
B_S	Baffle spacing	180mm	7.09″
D	Distance from ceiling	min. 100mm	min. 4″
S_W	Support spacing W	500mm	19.68″
S_L	Support spacing L	275mm	10.83″
P	PET material thickness	24mm	0.94″

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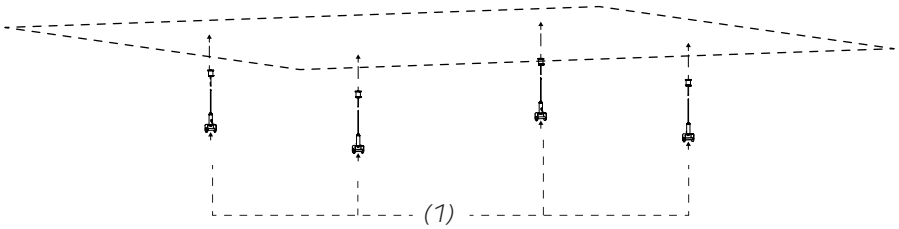
Modular Baffles
Installation Overview

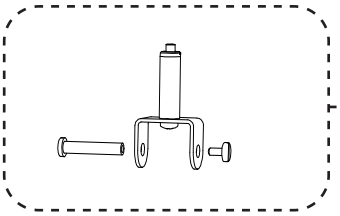
Extended document available

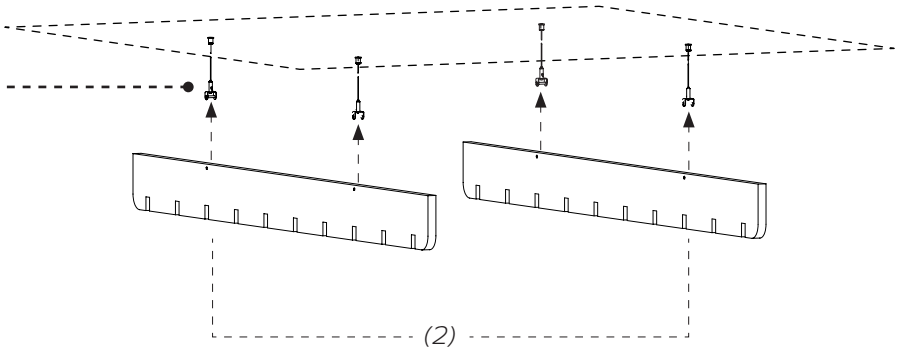
1 Attach mounting hardware

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



2 Install upper Baffles

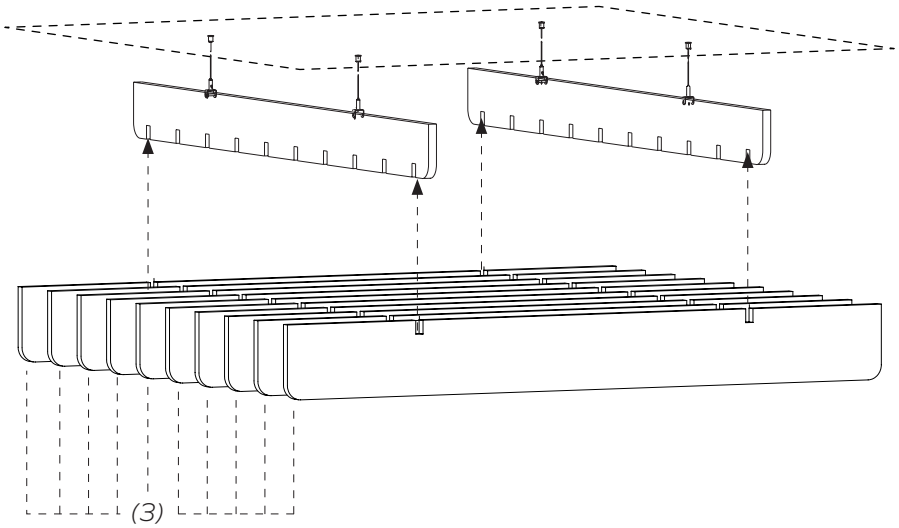




Attach slotted upper baffles *(2)* to the gripper connectors. Secure the baffles with provided screws. Adjust the lift of the baffles using the cable

3 Install lower Baffles

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



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ARCHISONIC®
Colors

Material brochure available

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	Deap 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

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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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Modular Baffles
Acoustic Performance

University of Stuttgart
Germany

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

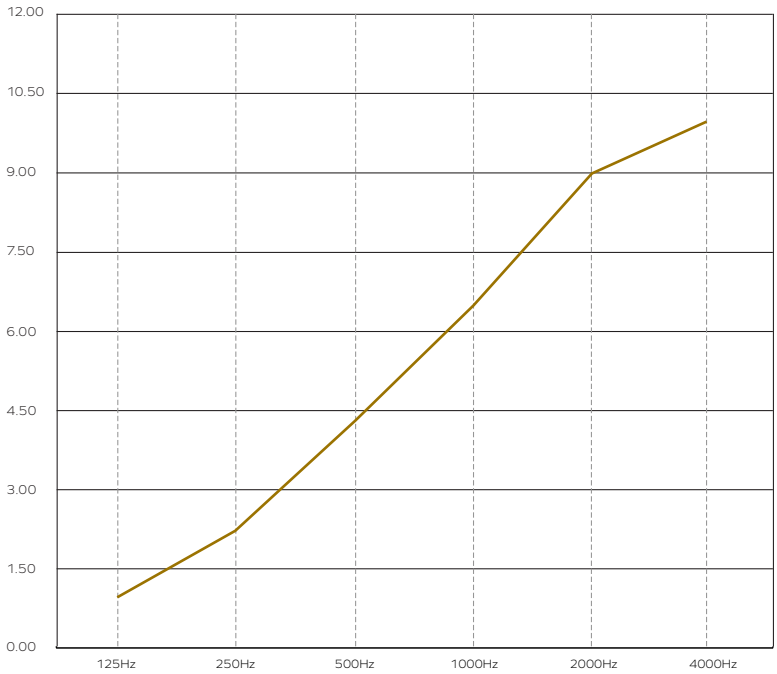
Acoustic Test Results ISO

Frequency (Hz)		**125**	**250**	**500**	**1000**	**2000**	**4000**
Ceiling Baffle Standard Module 24mm	m^2	0.9	2.5	4.1	6.4	9.0	9.9

Acoustic Test Results ASTM (Sabins)

Frequency (Hz)		**125**	**250**	**500**	**1000**	**2000**	**4000**
Ceiling Baffle Standard Module 24mm	m^2	10.1	27.1	43.9	69.0	97.1	106.3

Presented results apply to tested module of 300mm height straight baffles with 200mm spacing in between.



"If you want to control room acoustics from the ceiling, keep one important principle in mind: size matters."

– Daniel Verlooven,
Global Acoustic Ambassador

● Ceiling Baffle Standard Module 24mm

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.

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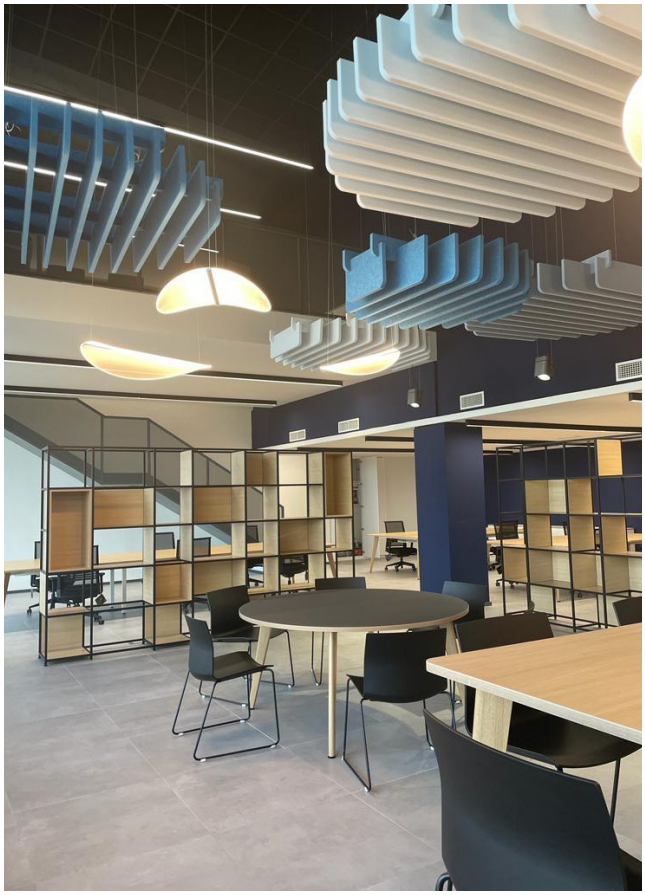
Modular Baffles
Reference Projects



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