IMPACT ACOUSTIC®

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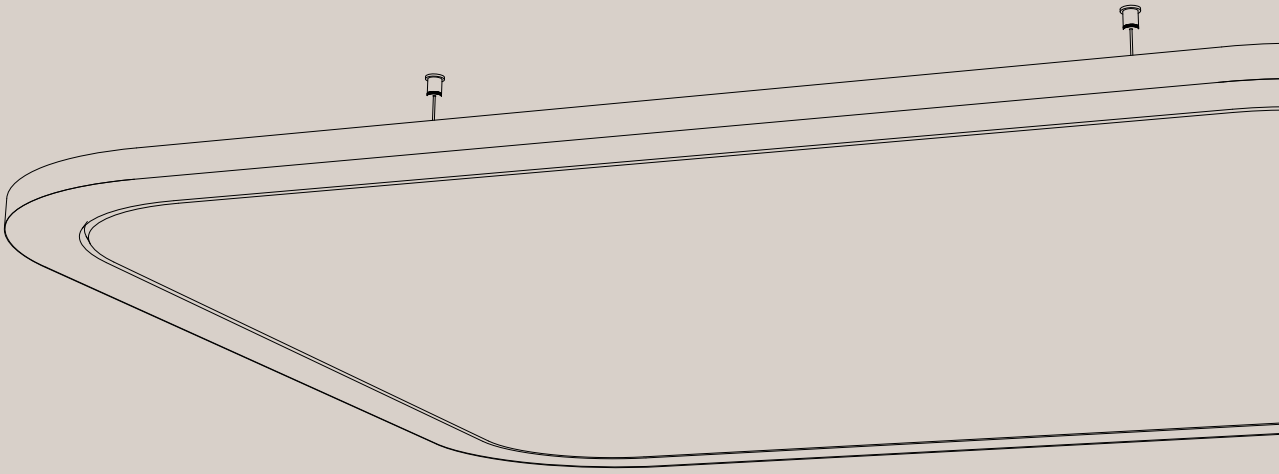

Square and Rectangle
Ceiling Panels

711.24.10.000.00	711.24.15.000.00	711.24.16.000.00
711.24.11.000.00	711.24.13.000.00	711.24.14.000.10
711.24.12.000.00	711.24.14.000.00	711.24.14.000.12

TECHNICAL DATA SHEET

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Rectangular Ceiling Panels
General Information



Data

Applicable article numbers

711.24.10.000.00	711.24.13.000.00	711.24.16.000.00
711.24.11.000.00	711.24.14.000.00	711.24.14.000.10
711.24.12.000.00	711.24.15.000.00	711.24.14.000.12

Dimensions[1]

Width	600-1800mm	23.62″ or 70.87″
Length	1200-2400mm	47.24″ or 94.49″
Material thickness	24mm	0.94″

Custom solutions available

Material

Panel	100% PET (60% post-consumer) in 32 colors.
Frame *(option)*	Stainless steel

Extended document available

Weight[2]

24mm PET Material	4kg/m² kg (±10%)	0.82 lbs/ft² (±10%)

(for specific product weight please refer to Geometry Information pages 6-14)

Included

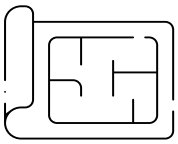
Ceiling Panel	Installation Kit	Installation guide	Warranty 2 years[3]

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

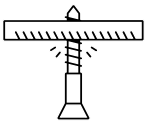
Rectangular Ceiling Panels
Specification Guide

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:

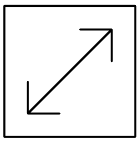


Ceiling Plans (RCP)



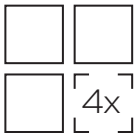
Ceiling Type

2 Specify your Baffles:



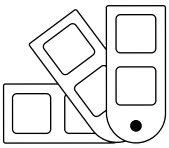
Size

page 5 and 6



Number of Modules

page 4



Color

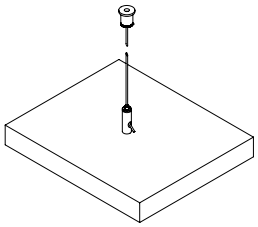
page 8



Pattern

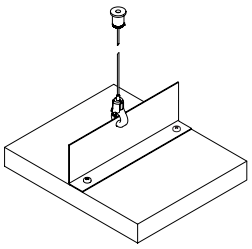
page 8

3 Verify installation method:



Direct gripper

page 7



Profile and clip

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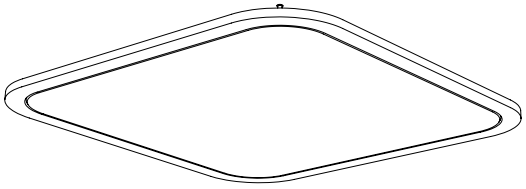
Rectangular Ceiling Panels
Product Family Overview

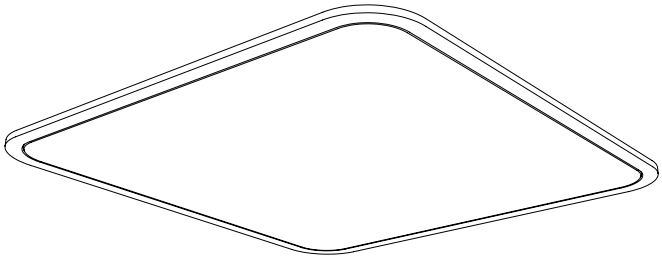
1 Ceiling Panels Square

711.24.10.000.00 - Ceiling Panel Square



(W1200 L1200)
(W47.24" L47.24")

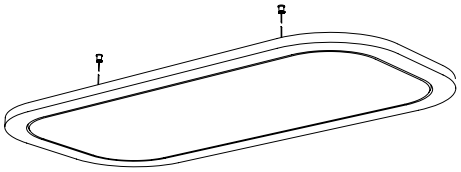
711.24.11.000.00 - Ceiling Panel Square



(W1800 L1800)
(W70.87" L70.87")

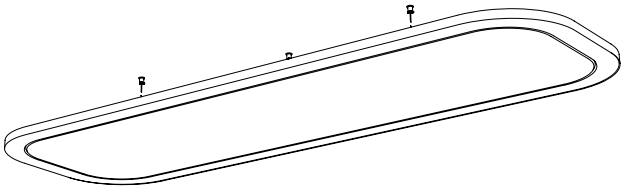
2 Ceiling Panels Rectangle

711.24.12.000.00 - Ceiling Panel Rectangle



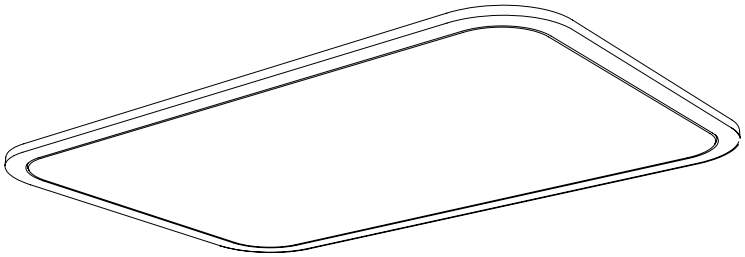
(W600 L1200)
(W23.62" L47.24")

711.24.13.000.00 - Ceiling Panel Rectangle



(W600 L1800)
(W23.62" L70.87")

711.24.14.000.00 - Ceiling Panel Rectangle



(W1200 L1800)
(W47.24" L70.87")

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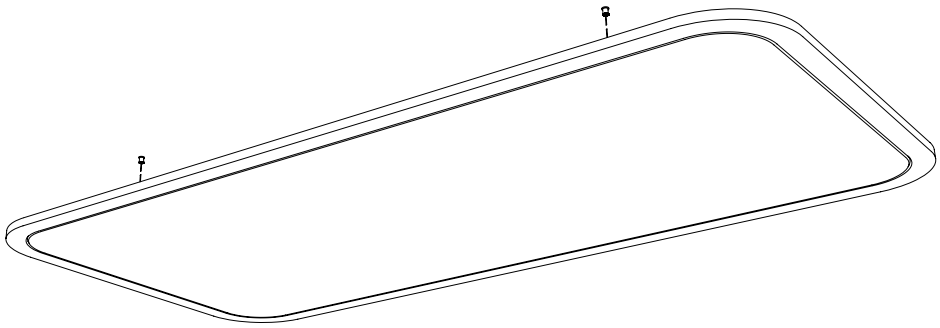
Rectangular Ceiling Panels
Product Family Overview

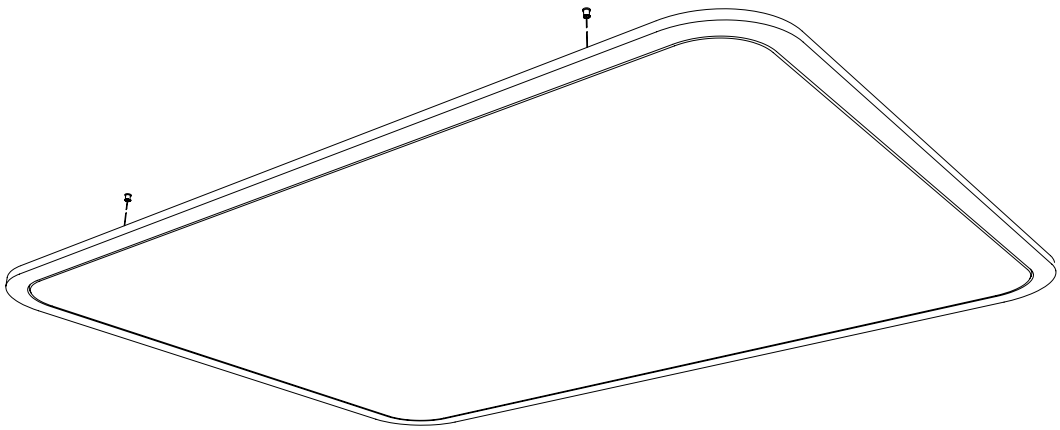
3 Ceiling Panels Rectangle with support

711.24.15.000.00 - Ceiling Panel Rectangle



(W1200 L2400 support frame)
(W47.24" L94.49")

711.24.16.000.00 - Ceiling Panel Rectangle



(W1800 L2400 support frame)
(W70.87" L94.49")

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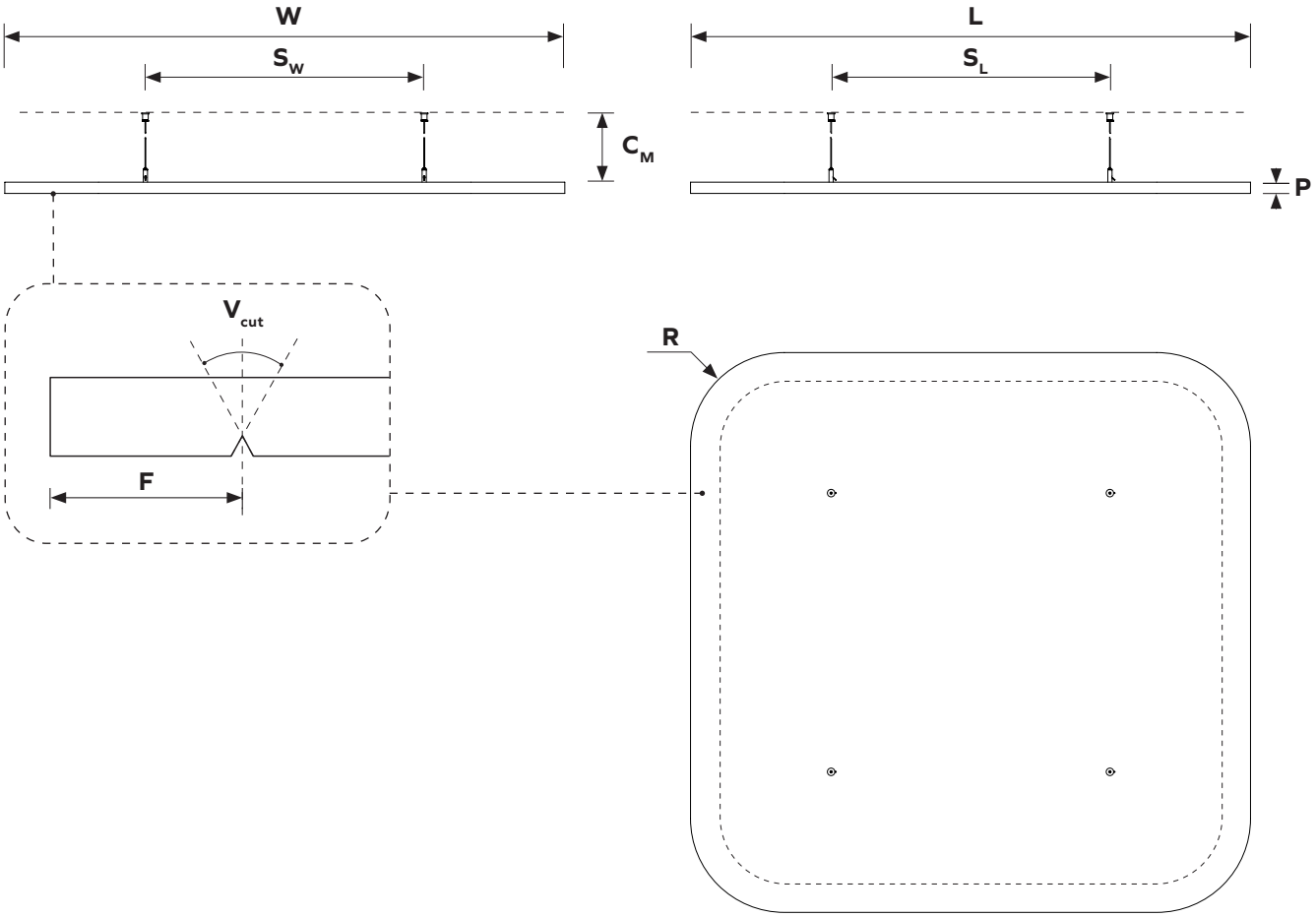
Rectangular Ceiling Panels

Custom solutions available

Geometry Information

Ceiling Panel Square 711.24.10.000.00



Dimensions table [1]

W	Total width	1195mm	47.05”
L	Total length	1195mm	47.05”
C_M	Distance from ceiling	min. 100mm	min. 4”
S_W	Support spacing W	595mm	23.43”
S_L	Support spacing L	595mm	23.43”
P	PET material thickness	24mm	0.94”
F	V-cut offset	60mm	2.36”
V_{cut}	V-cut angle	60° (2 sides 30° V-cut) - 6mm (0.24”) depth	

Weight table [2]

	PET panel	5.56 kg	12.26 lbs

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Rectangular Ceiling Panels

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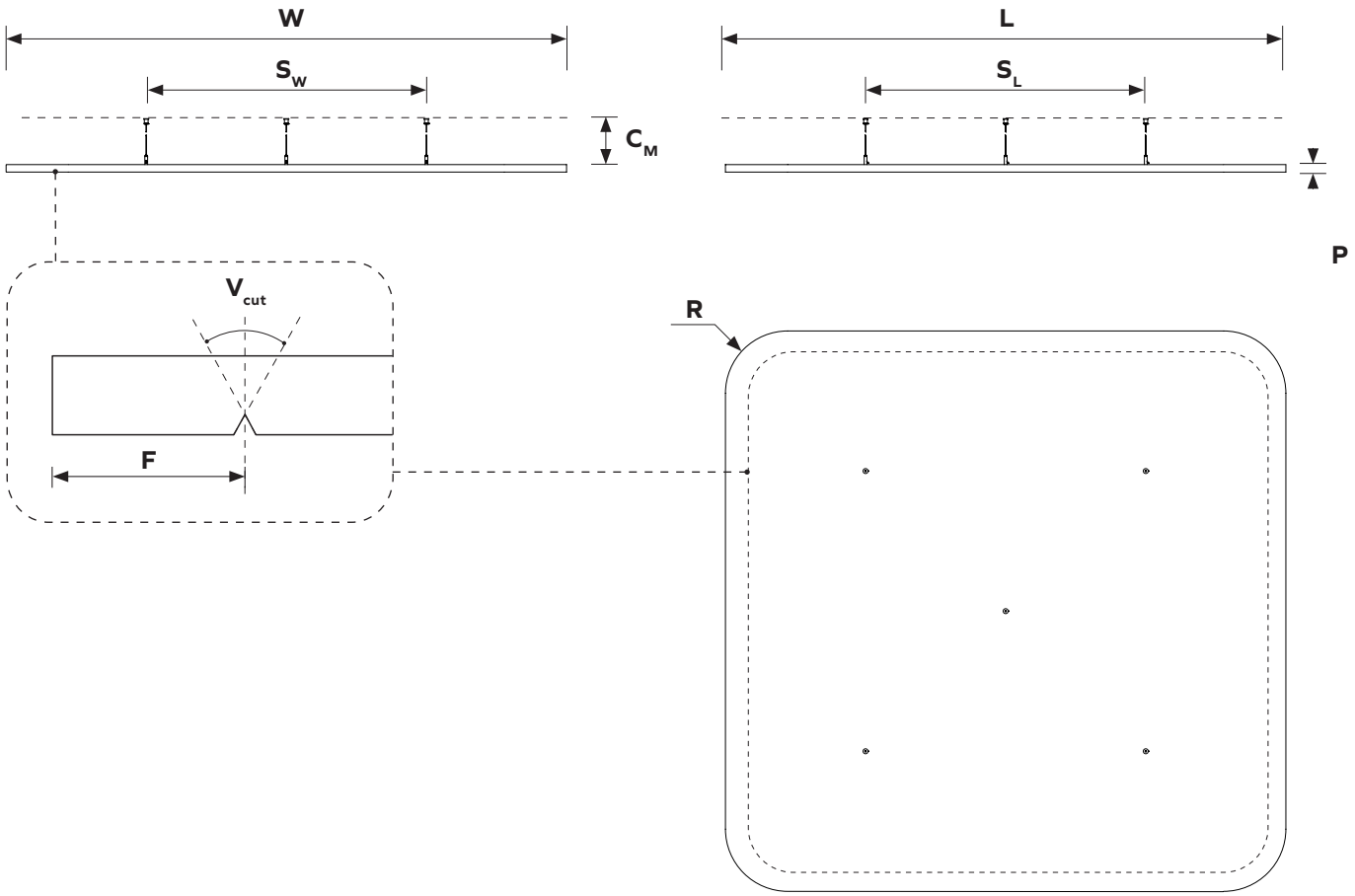
Geometry Information

Ceiling Panel Square 711.24.11.000.00



Dimensions table [1]

W	Total width	1800mm	70.87”
L	Total length	1800mm	70.87”
C_M	Distance from ceiling	min. 100mm	min. 4”
S_W	Support spacing W	900mm	35.43”
S_L	Support spacing L	900mm	35.43”
P	PET material thickness	24mm	0.94”
F	V-cut offset	60mm	2.36”
V_{cut}	V-cut angle	60° (2 sides 30° V-cut) - 6mm (0.24”) depth	

Weight table [2]

	PET panel	12.8 kg	28.22 lbs

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Rectangular Ceiling Panels

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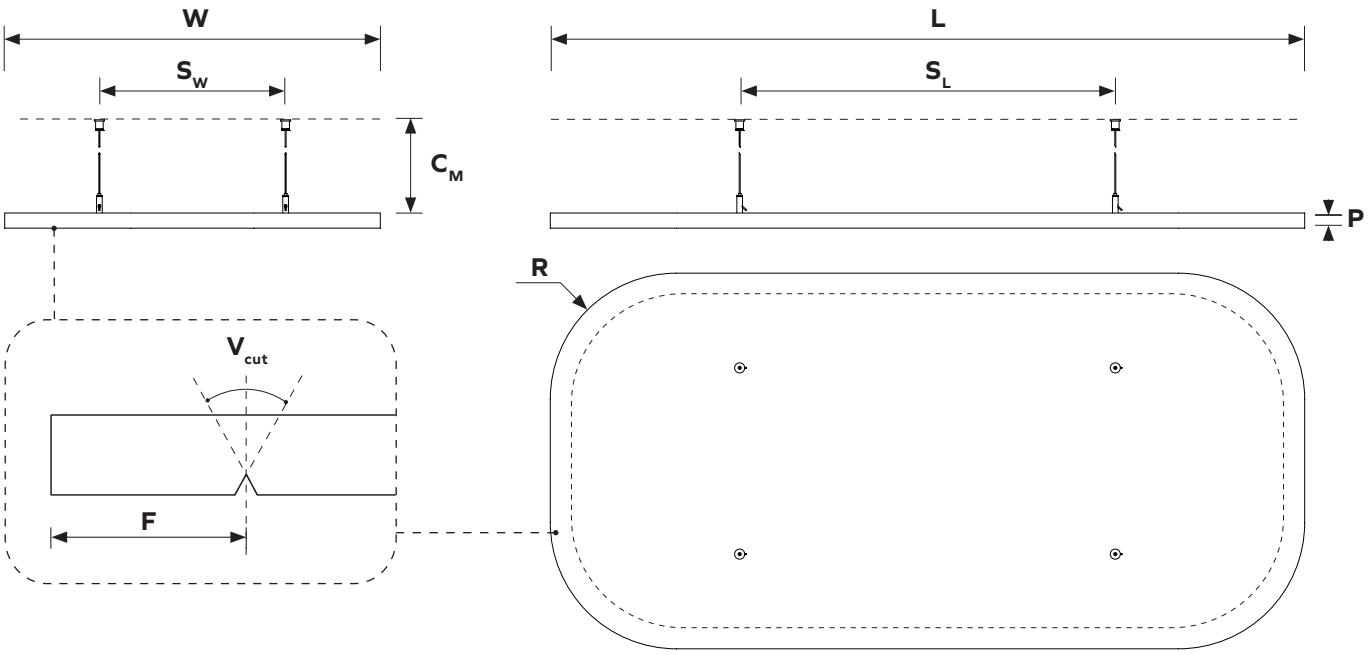
Geometry Information

Ceiling Panel Rectangle 711.24.12.000.00



Dimensions table [1]

W	Total width	595mm	23.43”
L	Total length	1195mm	47.05”
C_M	Distance from ceiling	min. 100mm	min. 4”
S_W	Support spacing W	295mm	11.61”
S_L	Support spacing L	595mm	23.43”
P	PET material thickness	24mm	0.94”
F	V-cut offset	60mm	2.36”
V_{cut}	V-cut angle	60° (2 sides 30° V-cut) - 6mm (0.24”) depth	

Weight table [2]

	PET panel	2.72 kg	6.00 lbs

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Rectangular Ceiling Panels

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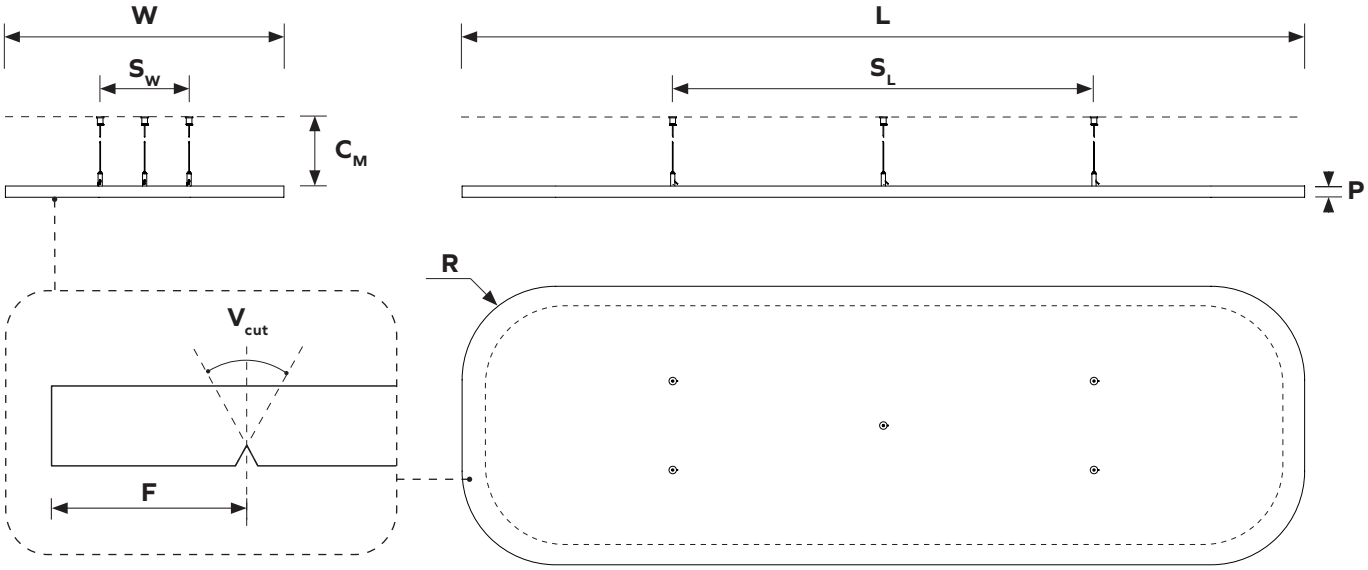
Ceiling Panel Rectangle 711.24.13.000.00



Dimensions table [1]

W	Total width	595mm	23.43”
L	Total length	1800mm	70.87”
C_M	Distance from ceiling	min. 100mm	min. 4”
S_W	Support spacing W	295mm	11.61”
S_L	Support spacing L	900mm	35.43”
P	PET material thickness	24mm	0.94”
F	V-cut offset	60mm	2.36”
V_{cut}	V-cut angle	60° (2 sides 30° V-cut) - 6mm (0.24”) depth	

Weight table [2]

	PET panel	4.42 kg	9.74 lbs

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Rectangular Ceiling Panels

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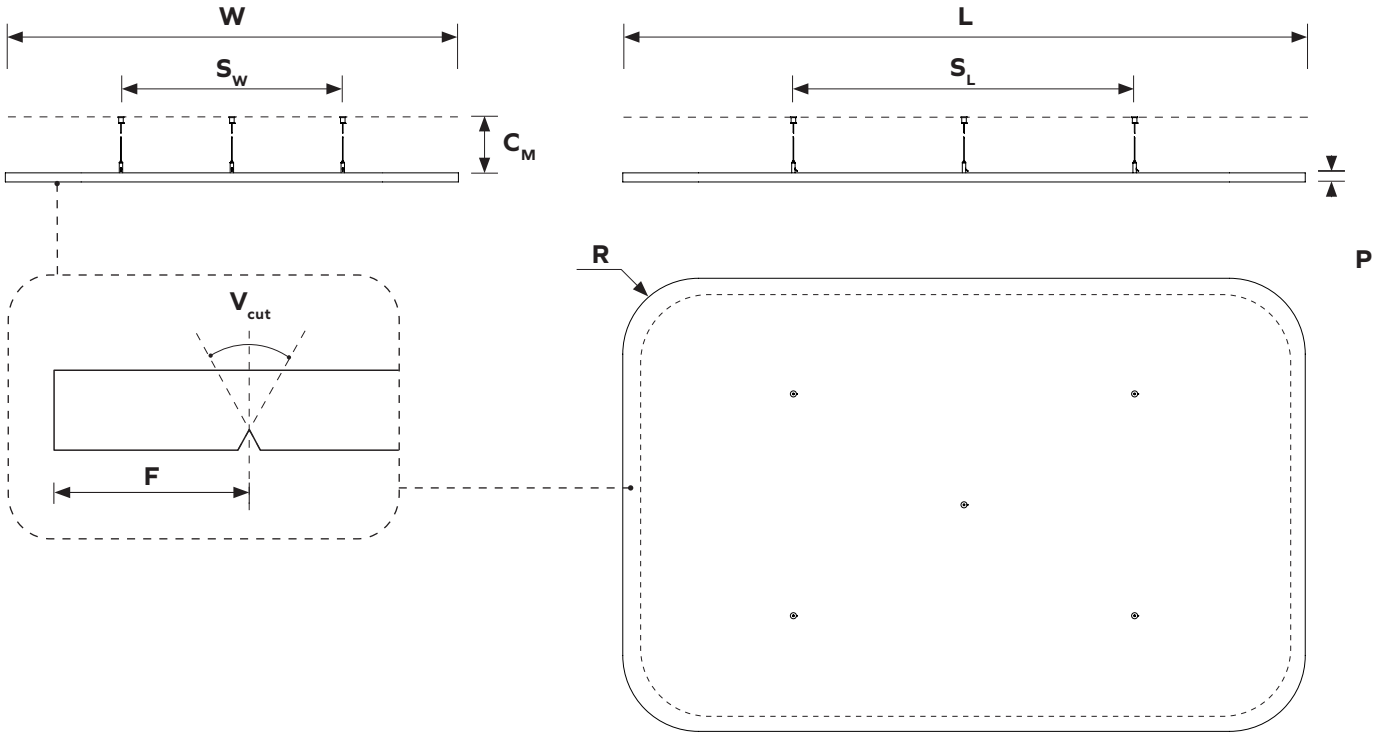
Geometry Information

Ceiling Panel Rectangle 711.24.14.000.00



Dimensions table [1]

W	Total width	1195mm	47.05″
L	Total length	1800mm	70.87″
C_M	Distance from ceiling	min. 100mm	min. 4″
S_W	Support spacing W	585mm	23.03″
S_L	Support spacing L	900mm	35.43″
P	PET material thickness	24mm	0.94″
F	V-cut offset	60mm	2.36″
V_{cut}	V-cut angle	60° (2 sides 30° V-cut) - 6mm (0.24″) depth	

Weight table [2]

	PET panel	8.44 kg	18.61 lbs

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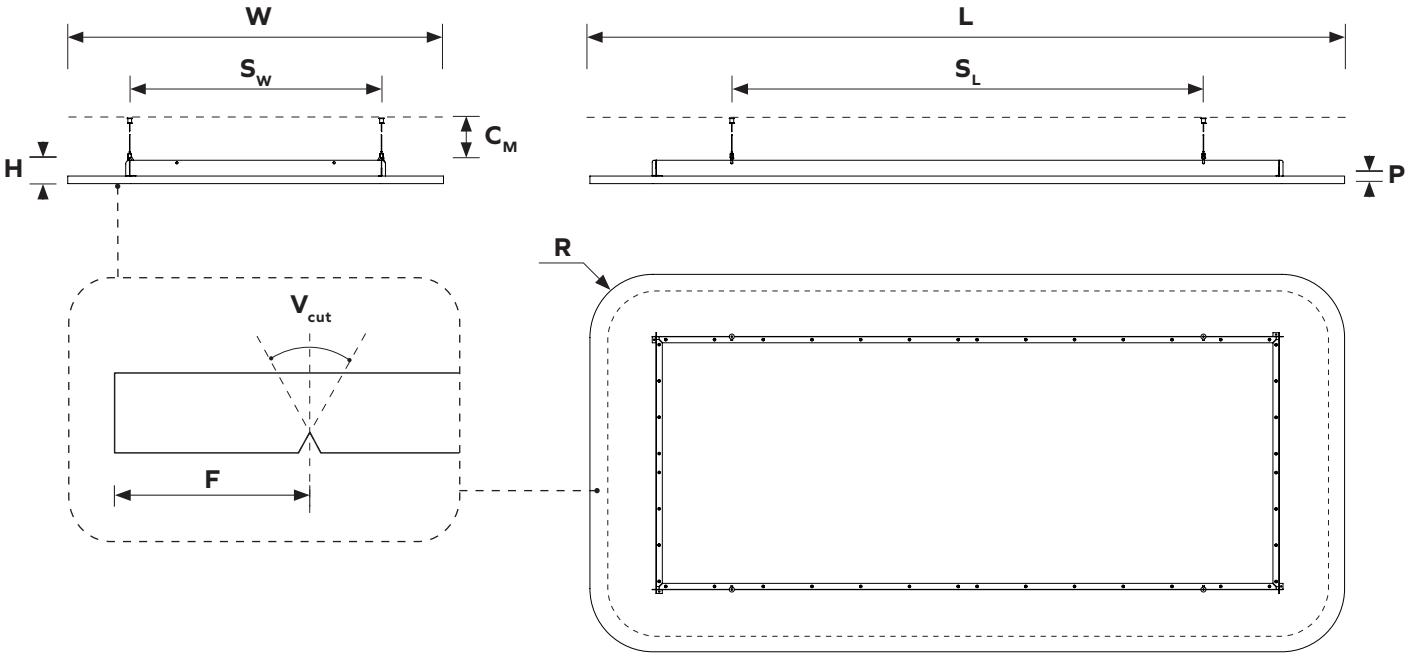
Geometry Information

Ceiling Panel Rectangle 711.24.15.000.00



Dimensions table [1]

W	Total width	1195mm	47.05″
L	Total length	2400mm	94.49″
C_M	Distance from ceiling	min. 100mm	min. 4″
H	Total Height	74mm	2.91″
S_W	Support spacing W	800mm	31.50″
S_L	Support spacing L	1500mm	59.06″
P	PET material thickness	24mm	0.94″
F	V-cut offset	60mm	2.36″
V_{cut}	V-cut angle	60° (2 sides 30° V-cut) - 6mm (0.24″) depth	

Weight table [2]

	PET panel	11.32 kg	24.96 lbs
	Steel profiles	3.04 kg	6.70 lbs

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Rectangular Ceiling Panels

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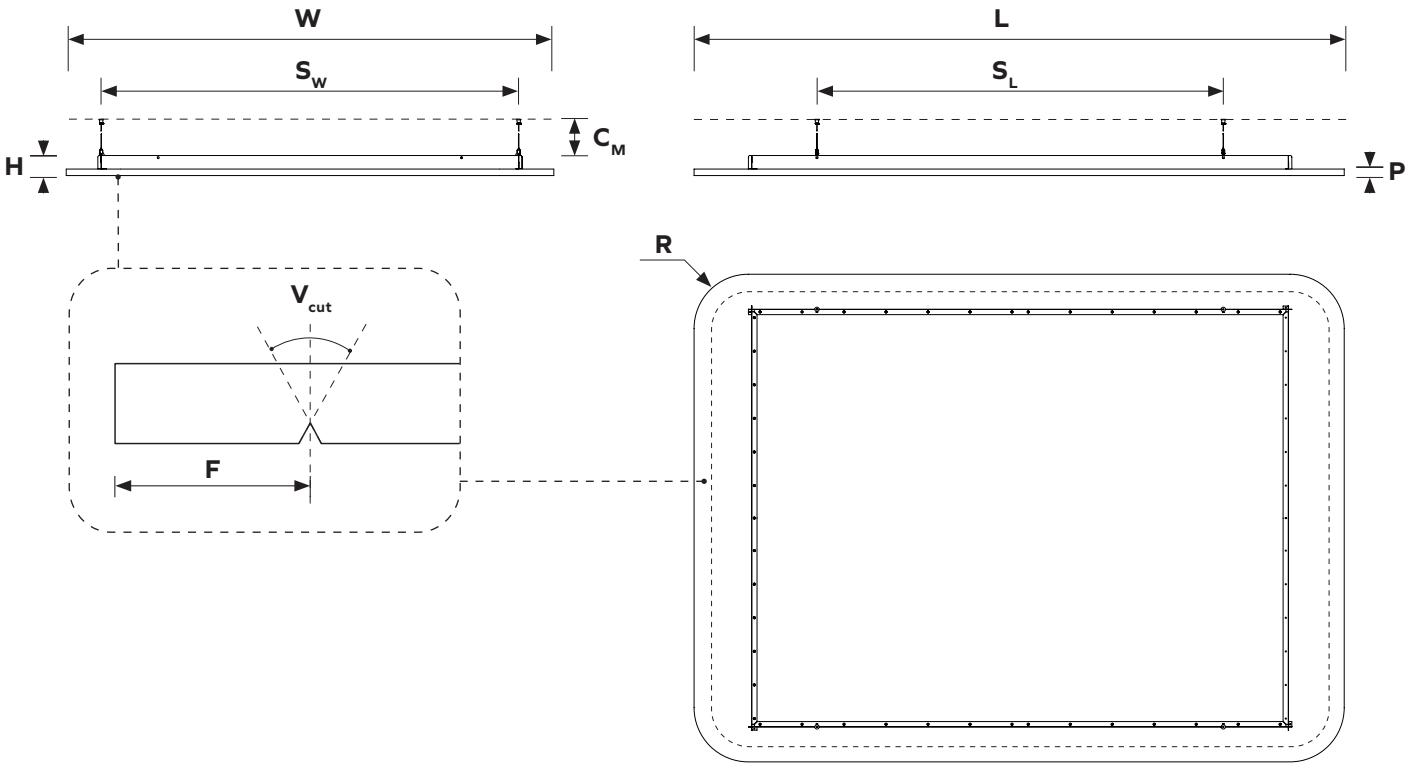
Geometry Information

Ceiling Panel Rectangle 711.24.16.000.00



Dimensions table [1]

W	Total width	1800mm	70.87”
L	Total length	2400mm	94.49”
C_M	Distance from ceiling	min. 100mm	min. 4”
H	Total Height	74mm	2.91”
S_W	Support spacing W	1540mm	60.63”
S_L	Support spacing L	1500mm	59.06”
P	PET material thickness	24mm	0.94”
F	V-cut offset	60mm	2.36”
V_{cut}	V-cut angle	60° (2 sides 30° V-cut) - 6mm (0.24”) depth	

Weight table [2]

	PET panel	17.14 kg	37.79 lbs
	Steel profiles	3.84 kg	8.47 lbs

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Rectangular Ceiling Panels
Installation Overview

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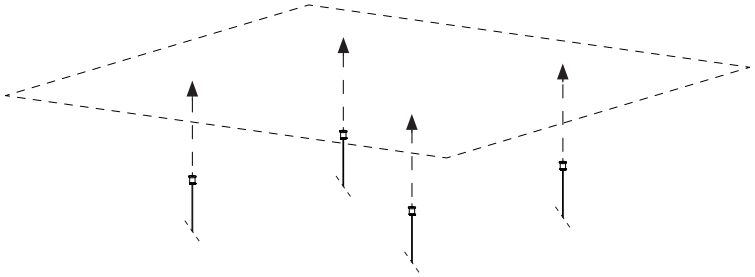
Applicable article numbers

711.24.10.000.00	711.24.13.000.00	711.24.14.000.10	711.24.12.000.00
711.24.11.000.00	711.24.14.000.00	711.24.14.000.12	

1 Attach mounting hardware

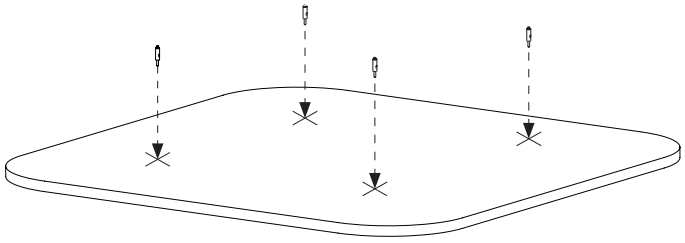
Measure the right spacing according to the X marks on the panel and attach mounting cables to the ceiling.





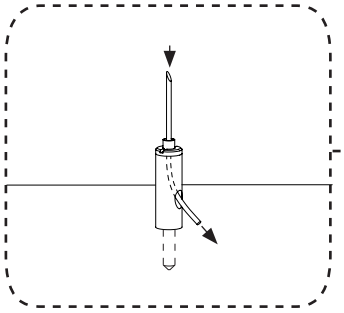
2 Attach grippers to the panel

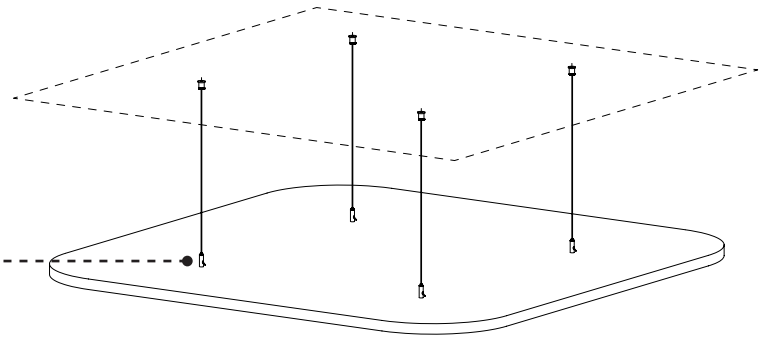
Screw the cable brippers into the panel at the locations indicated by X mark on the panel back surface.



3 Connect cables

Pull suspension cables through Grippers and adjust the cable length.





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Rectangular Ceiling Panels
Installation Overview

Extended document available

Applicable article numbers

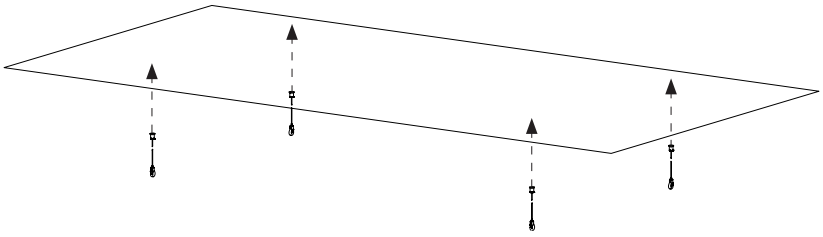
711.24.15.000.00

711.24.16.000.00

1 Attach mounting hardware

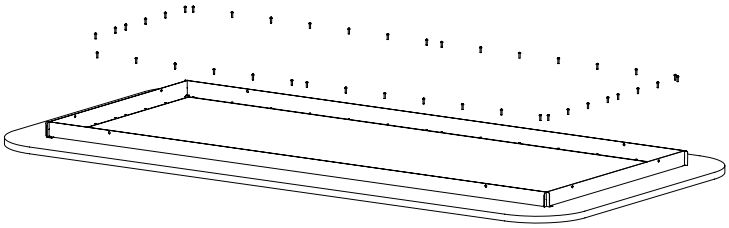
Measure the right spacing according to the X marks on the panel and attach mounting cables to the ceiling.





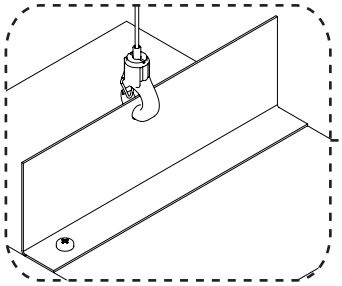
2 Install the steel frame.

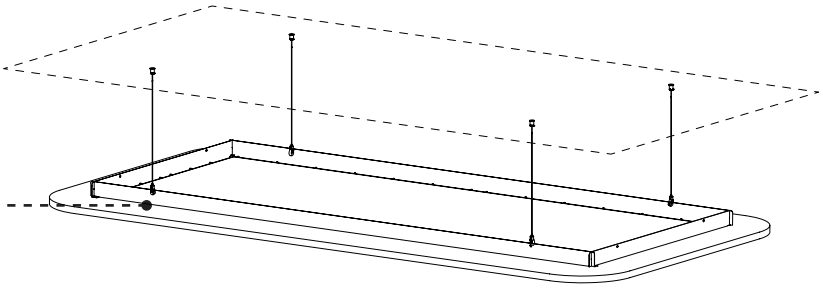
Position the frame on the back of the panel and attach it using supplied screws.



3 Connect cables

Attach clips to stiffening frame on the panel and adjust the cable length.





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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

MINIMUM 60% RECYCLED CONTENT POST-CONSUMER

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spec@habitatmatter.com

Rectangular Ceiling Panels
Acoustic Performance

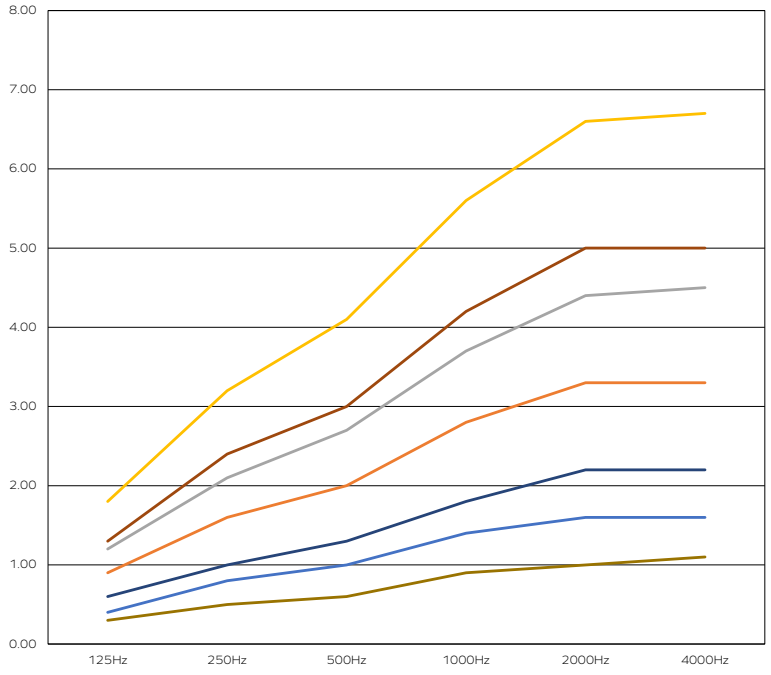
Testing Standards

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
24mm RECTANGLE 1200x600mm	m^2	0.3	0.5	0.6	0.9	1.0	1.1	NA
24mm RECTANGLE 1800x600mm	m^2	0.4	0.8	1.0	1.4	1.6	1.6	NA
24mm RECTANGLE 1800x1200mm	m^2	0.9	1.6	2.0	2.8	3.3	3.3	NA
24mm RECTANGLE 2400x1200mm	m^2	1.2	2.1	2.7	3.7	4.4	4.5	NA
24mm RECTANGLE 2400x1800mm	m^2	1.8	3.2	4.1	5.6	6.6	6.7	NA
24mm SQUARE 1200x1200mm	m^2	0.6	1.0	1.3	1.8	2.2	2.2	NA
24mm SQUARE 1800x1800mm	m^2	1.3	2.4	3.0	4.2	5.0	5.0	NA



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.

Acoustic Test Results ASTM	NRC
24mm RECTANGLE 1200x600mm	0.55
24mm RECTANGLE 1800x600mm	0.60
24mm RECTANGLE 1800x1200mm	0.60
24mm RECTANGLE 2400x1200mm	0.60
24mm RECTANGLE 2400x1800mm	0.55
24mm SQUARE 1200x1200mm	0.55
24mm SQUARE 1800x1800mm	0.55

- 24mm RECTANGLE 1200x600mm
- 24mm RECTANGLE 1800x600mm
- 24mm RECTANGLE 1800x1200mm
- 24mm RECTANGLE 2400x1200mm
- 24mm RECTANGLE 2400x1800mm
- 24mm SQUARE 1200x1200mm
- 24mm SQUARE 1800x1800mm

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Reference Projects





