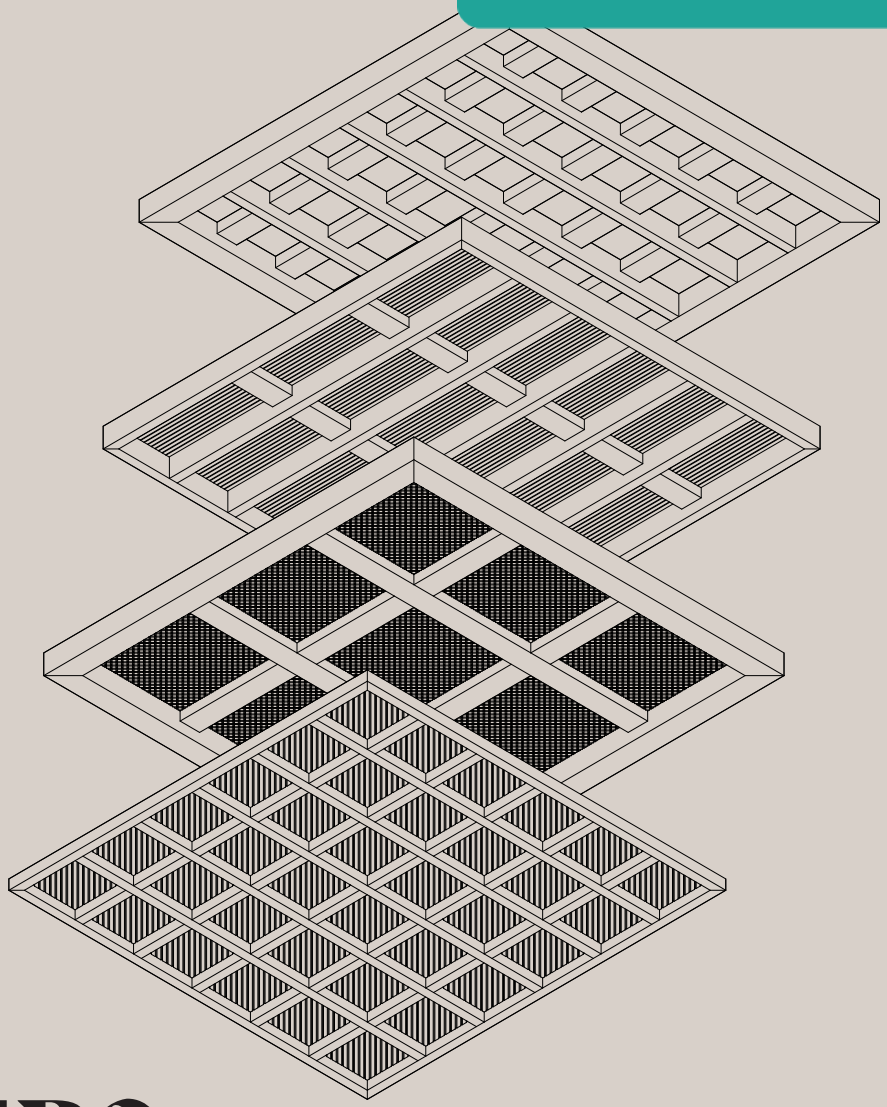
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MERO

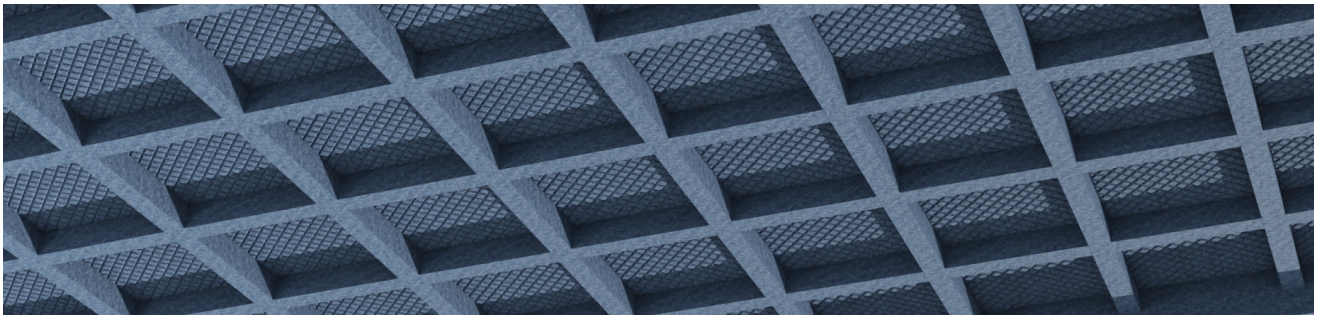
Modular Ceiling Grid

715.12.31.000.00	715.12.36.000.00
715.12.32.000.00	715.12.37.000.00
715.12.33.000.00	715.12.38.000.00
715.12.34.000.00	715.12.39.000.00
715.12.35.000.00	715.12.40.000.00
715.12.41.000.00	715.12.46.000.00
715.12.42.000.00	715.12.47.000.00
715.12.43.000.00	715.12.48.000.00
715.12.44.000.00	715.12.49.000.00
715.12.45.000.00	715.12.50.000.00

TECHNICAL DATA SHEET

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MERO Modular Ceiling Grid
General Information



Data

Applicable article numbers

Layout	Layout 1	Layout 2	Layout 3	Layout 4	Layout Bespoke
Metric No.	715.12.31.000.00	715.12.32.000.00	715.12.33.000.00	715.12.34.000.00	715.12.35.000.00
Imperial No.	715.12.41.000.00	715.12.42.000.00	715.12.43.000.00	715.12.44.000.00	715.12.45.000.00
Infill	Type 1	Type 2	Type 3	Type 4	Type 5
Metric No.	715.12.36.000.00	715.12.37.000.00	715.12.38.000.00	715.12.39.000.00	715.12.40.000.00
Imperial No.	715.12.46.000.00	715.12.47.000.00	715.12.48.000.00	715.12.49.000.00	715.12.50.000.00

Dimensions[1]

Beam Height	100mm/200mm	112.20"
Beam Width	80mm/200mm	47 1/4"
Cell Size*	600 x 600mm	23 5/8" x 23 5/8"
	600 x 1200mm	23 5/8" x 47 1/4"
	1200 x 1200mm	47 1/4" x 47 1/4"

Material

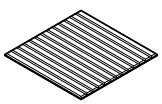
Mero Beams	ARCHISONIC® Felt - 100% PET (60% Post-consumer) in 36 colours and 33 Riftcut printed texture
T-Grid Twist Clip	Steel (RAL9005)
Tile Clip	PET

Included

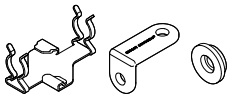
Acoustic Beams



Acoustic Tile Caps



Hardware



Installation guide



Warranty 10 years[2]



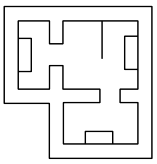
1 - all dimensions are nominal 2 - Impact Acoustic warranty terms apply
*This product is offered in different units of measure to accommodate standard T-grid in various locations. Ensure you are specifying the correct version for your T-grid.

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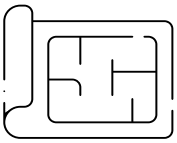
MERO Modular Ceiling Grid
Specification Guide

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 personalized customized options.

1 Prepare this information:



Project Area

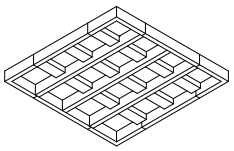


Ceiling Plans (RCP)



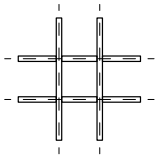
Other Considerations

2 Specify your options



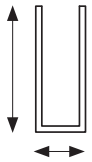
Layout

page 4



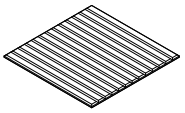
Cell Size

page 4



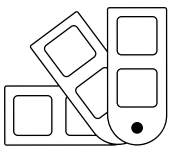
Beam Depth and Width

page 6



Tile Options

page 7 - 8



Colour and Texture

page 19 - 21

3 Select installation method:



T-Grid (24mm)
*(By Others)

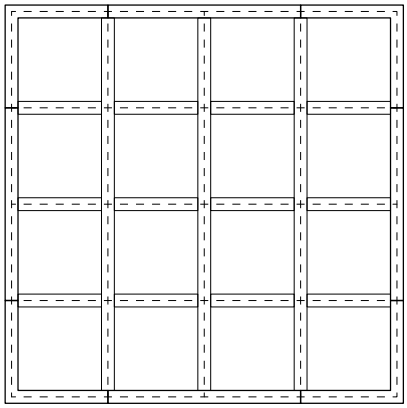


T-Grid (15/16")
*(By Others)

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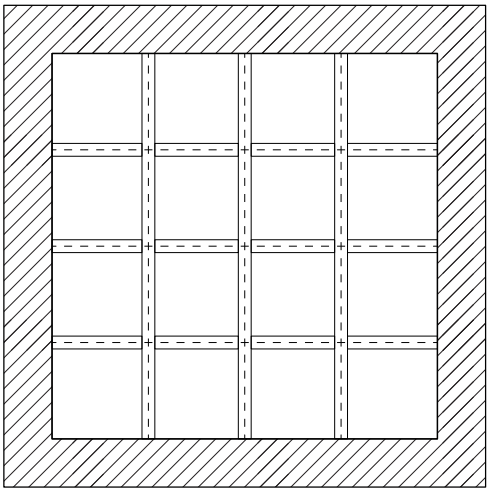
MERO Modular Ceiling Grid
Specification Guide

1 Layout



Floating Installation

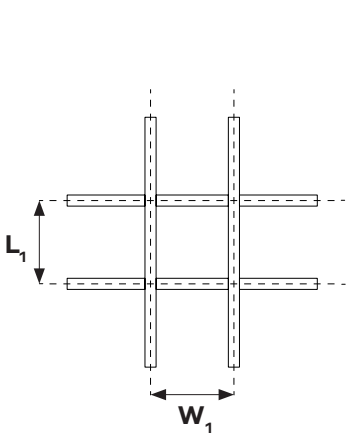
Provided with a perimeter for use in a stand alone floating installation or to be installed in a grid with standard ceiling tiles around it.



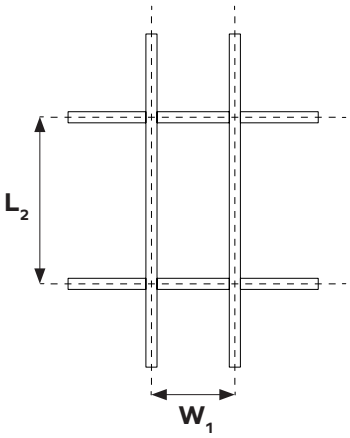
Wall to Wall Installation

No perimeter, beam ends will attach directly to wall.

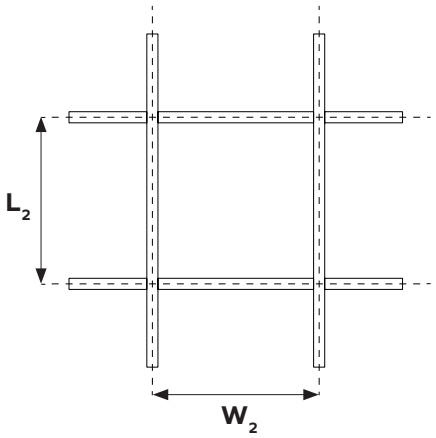
2 Cell sizes



Regular



Medium



Large

Dimension tables[1]

Name		Metric T-Grid		Imperial T-Grid	
L_1	Length 1	600mm	23 5/8″	609.6mm	24″
L_2	Length 2	1200mm	47 1/4″	1219.2mm	48″
W_1	Width 1	600mm	23 5/8″	609.6mm	24″
W_2	Width 2	1200mm	47 1/4″	1219.2mm	48″

1 - all dimensions are nominal

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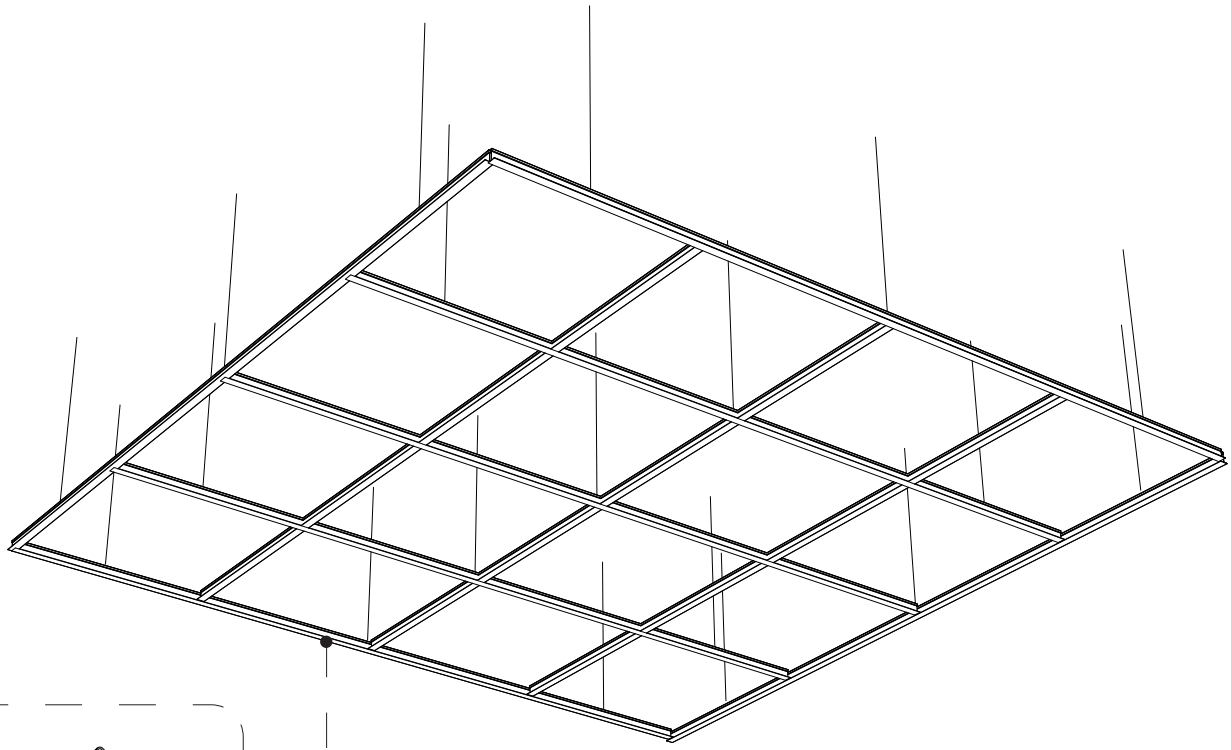
MERO Modular Ceiling Grid
Specification Guide

3 T-Grid size

Mero grids must be installed on a third party T-Grid. We recommend using **PRELUDE 15/16" Exposed Tee Grid System from Kanopi by Armstrong (US: 24" x 24" Cells)** or **Armstrong SELECT 1000 24mm Exposed Tee System** from **KNAUF Ceiling Solutions (EU: 600mm x 600mm Cells)**.

T-Grid from other suppliers may be used, however it must have a **profile width of 15/16" or 24mm.**

Please make sure to specify the grid type and cell size so that the correct sized Mero grid can be provided.





T-Grid (24mm)
*(Von Anderen)

Note: T-Grid image, including hanging cable placements is for demonstration purposes only. Consult a structural engineer and adhere to local regulations when installing T-Grid.

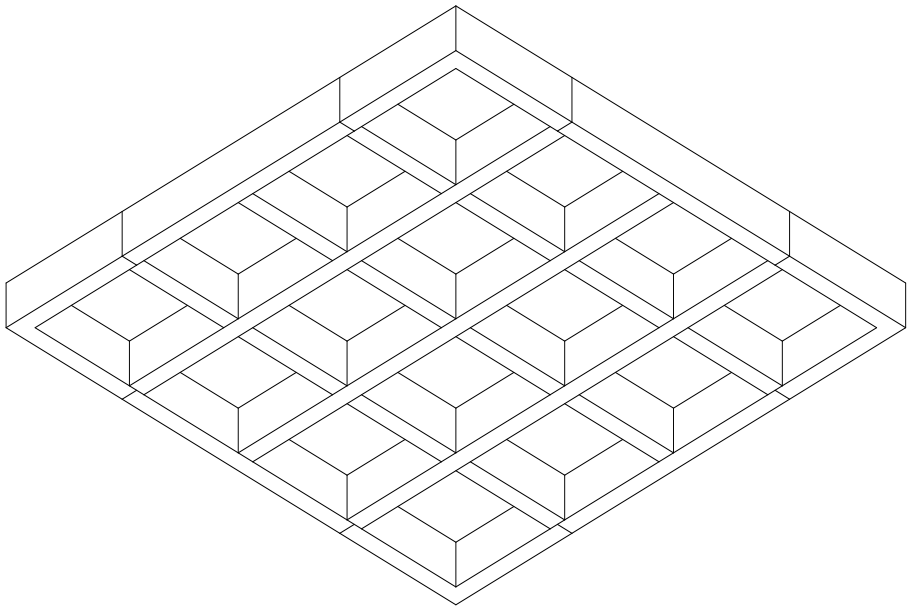
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MERO Modular Ceiling Grid
Specification Guide

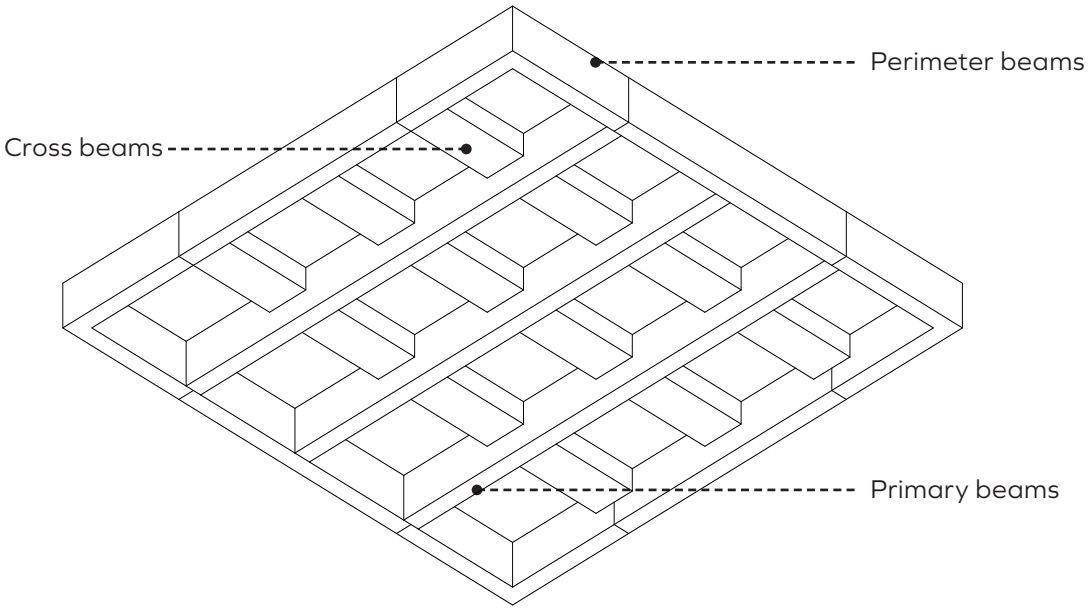
4 Dual or single beam depth and width

Choose a size for the primary, perimeter and cross beams. Please note that the cross beams cannot be deeper than the primary beams and the primary beams cannot be deeper than the perimeter beams.

Single beam depth and width



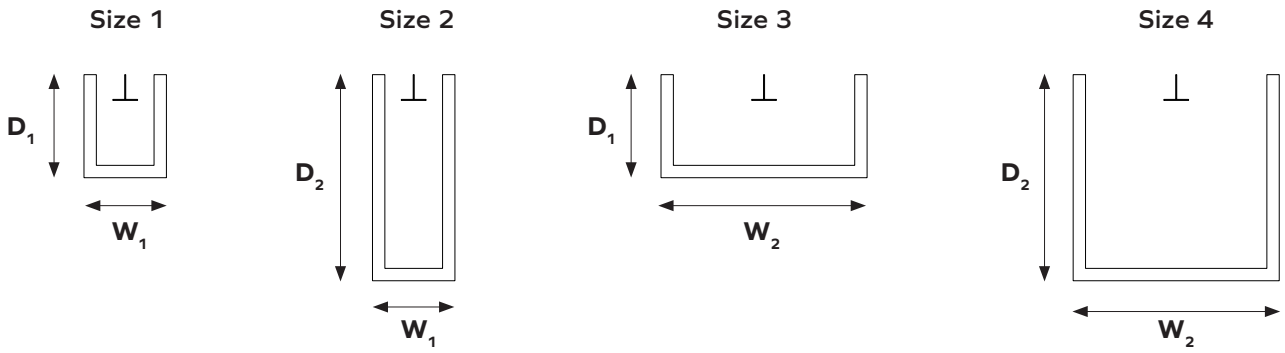
Dual beam depth and width



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MERO Modular Ceiling Grid
Available Designs

Available beam sizes



Dimension tables [2]

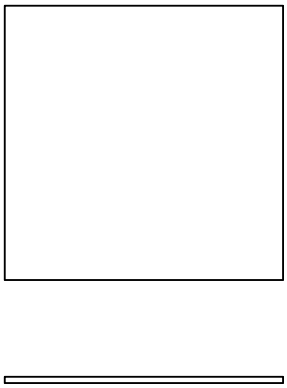
Name	Size mm	Size Inches
D_1 Depth 1	100mm	$3\ ^{15}/_{16}$"
D_2 Depth 2	200mm	$7\ ^{7}/_{8}$"
W_1 Width 1	80mm	$3\ ^{5}/_{32}$"
W_2 Width 2	200mm	$7\ ^{7}/_{8}$"

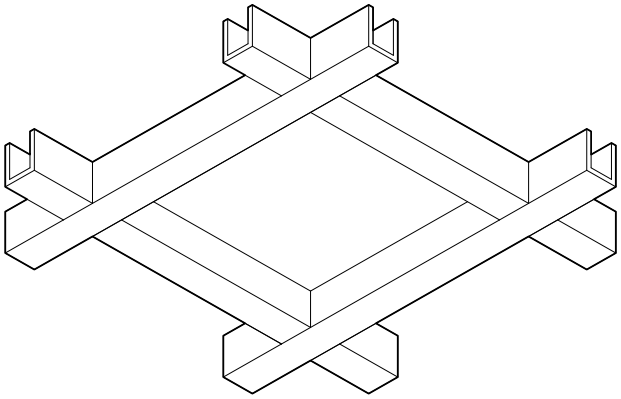
5 Available tile infill designs

Choose a tile cap design or have an open top Mero Grid. Each design will be scaled to fit your specific sized grid.

1 Plain - Tile Cap - Type 1

Metric 715.12.36.000.00; **Imperial** 715.12.46.000.00





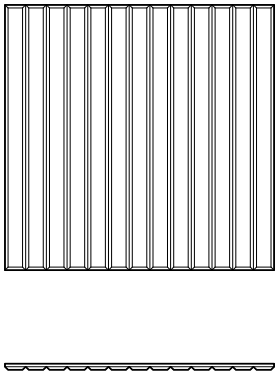
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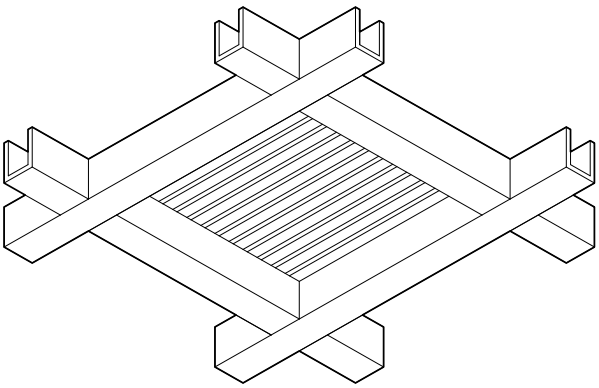
MERO Modular Ceiling Grid
Available Designs

Choose a tile cap design or have an open top Mero Grid. Each design will be scaled to fit your specific sized grid.

2 Linear - Tile Cap - Type 2

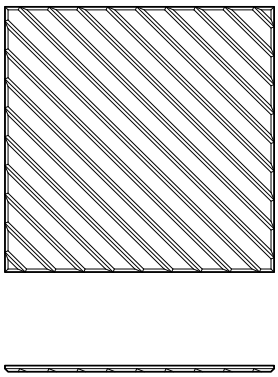
Metric 715.12.37.000.00; **Imperial** 715.12.47.000.00

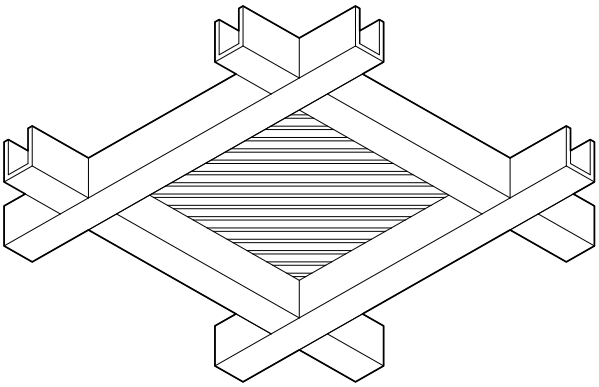




3 Cross - Tile Cap - Type 3

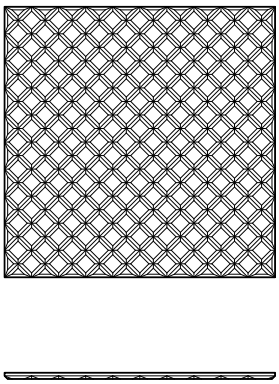
Metric 715.12.38.000.00; **Imperial** 715.12.48.000.00

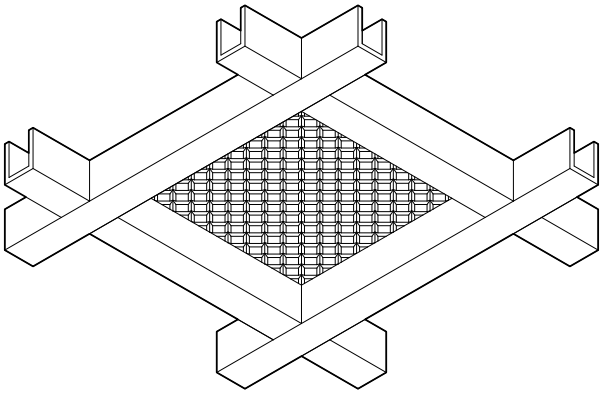




4 Velvet - Tile Cap - Type 4

Metric 715.12.39.000.00; **Imperial** 715.12.49.000.00

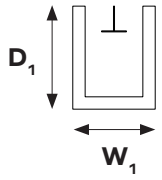
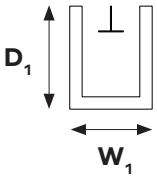
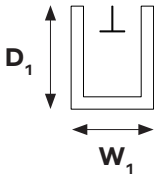
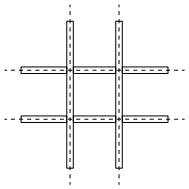


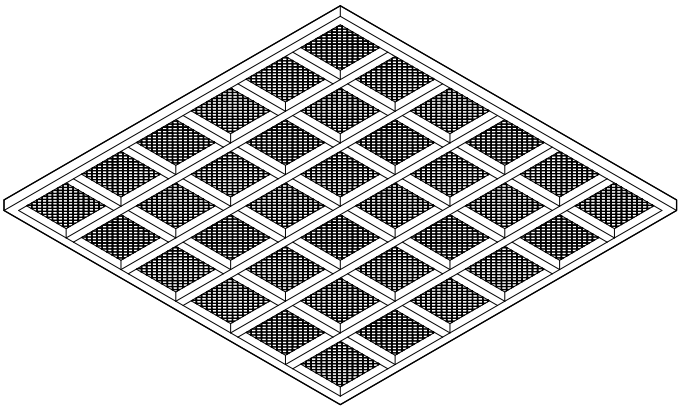


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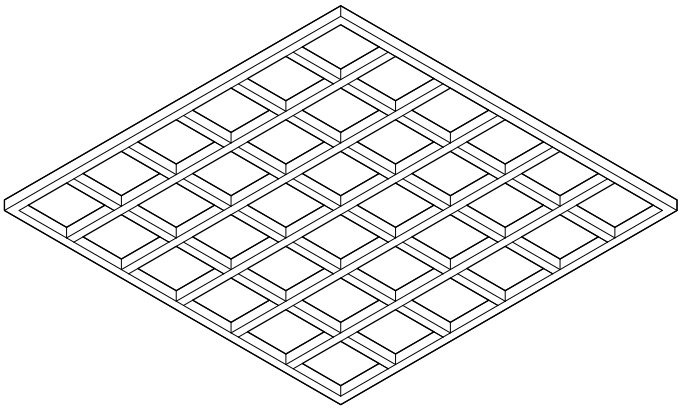
MERO Modular Ceiling Grid
Recomended Layouts

1 Layout 1

Perimeter Beam	Main Beam	Cross Beam	Grid Cell Size
			
D_1 W_1	D_1 W_1	D_1 W_1	Regular (600x600mm)*



With Infill Tile
(Velvet tile)



Without Infill Tile

Dimension tables[1]

	Metric Grid	Imperial Grid
Name	**Size mm**	**Size Inches**
D_1 Depth 1	100mm	$3\ ^{15}/_{16}$"
W_1 Width 1	80mm	$3\ ^{5}/_{32}$"
Grid Cell Size	600 x 600mm*	24" x 24" *

* Grid Cell Sizes will be dependent on the T-Grid available in your region.

Name	Code Metric	Code Imperial
Mero Layout 1 ARCHISONIC® Felt	715.12.31.000.00	715.12.41.000.00
Infill Tile for Layout 1*	715.12.39.000.00	715.12.49.000.00

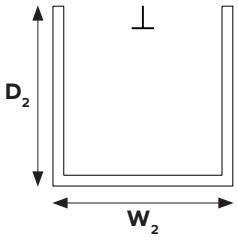
* All 4 infill tile design options are available

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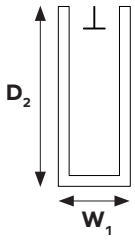
MERO Modular Ceiling Grid
Recomended Layouts

2 Layout 2

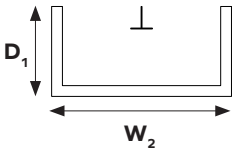
Perimeter Beam



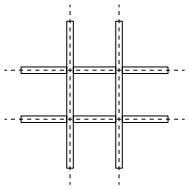
Main Beam



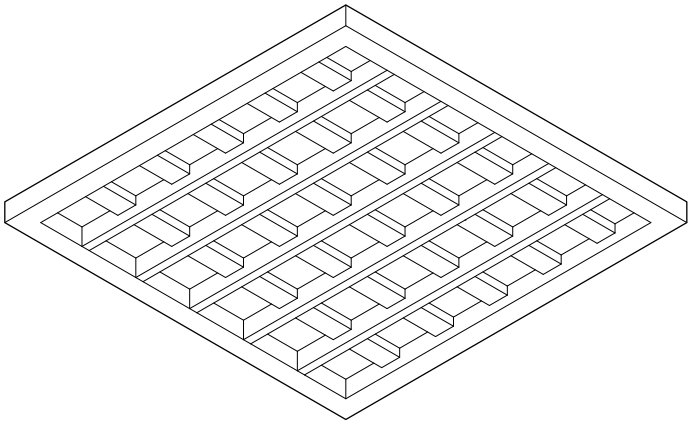
Cross Beam



Grid Cell Size

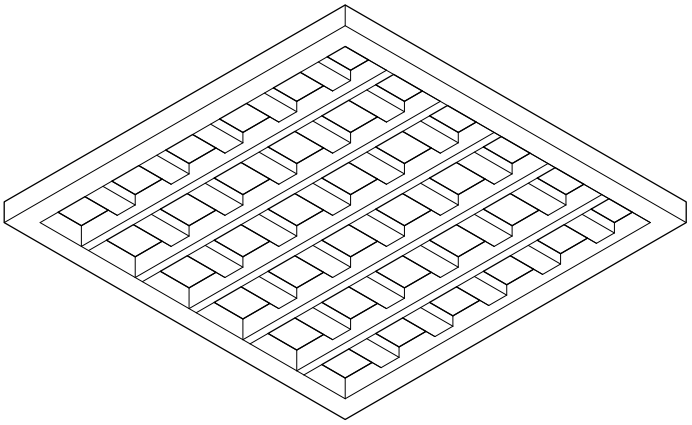


Regular (600x600mm)*



With Infill Tile

(Plain tile)



Without Infill Tile

Dimension tables[1]

	Metric T-Grid	Imperial T-Grid
Name	**Size mm**	**Size Inches**
D_1 Depth 1	100mm	3 $^{15}/_{16}$"
D_2 Depth 2	200mm	7 $^{7}/_{8}$"
W_1 Width 1	80mm	3 $^{5}/_{32}$"
W_2 Width 2	200mm	7 $^{7}/_{8}$"
Grid Cell Size	600 x 600mm*	24" x 24"*

* Grid Cell Sizes will be dependent on the T-Grid available in your region.

Name	Code Metric	Code Imperial
Mero Layout 2 ARCHISONIC® Felt	715.12.32.000.00	715.12.42.000.00
Infill Tile for Layout 2*	715.12.36.000.00	715.12.46.000.00

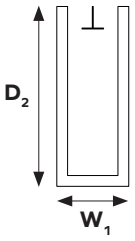
* All 4 infill tile design options are available

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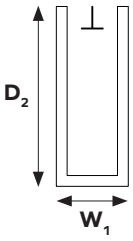
MERO Modular Ceiling Grid
Recomended Layouts

3 Layout 3

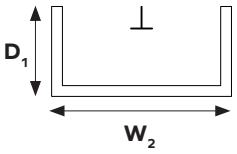
Perimeter Beam



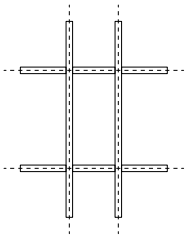
Main Beam



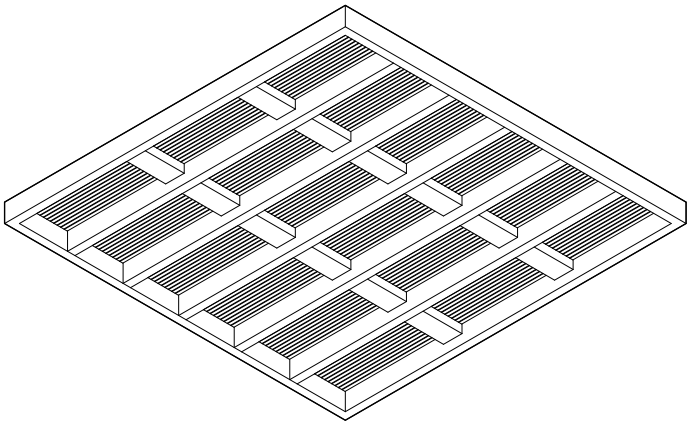
Cross Beam



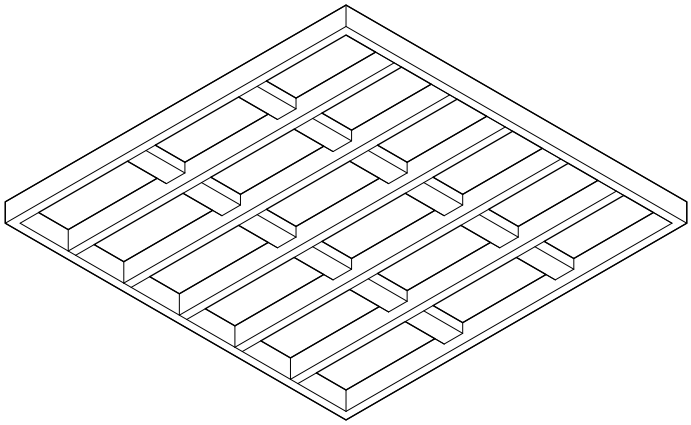
Grid Cell Size



Medium
(1200x600mm)*



With Infill Tile
(Linear tile)



Without Infill Tile

Dimension tables[1]

	Metric T-Gird	Imperial T-Grid
Name	**Size mm**	**Size Inches**
D_1 Depth 1	100mm	3 15/16"
D_2 Depth 2	200mm	7 7/8"
W_1 Width 1	80mm	3 5/32"
W_2 Width 2	200mm	7 7/8"
Grid Cell Size	1200 x 600mm*	48" x 24" *

* Grid Cell Sizes will be dependent on the T-Grid available in your region.

Name	Code Metric	Code Imperial
Mero Layout 3 ARCHISONIC® Felt	715.12.33.000.00	715.12.43.000.00
Infill Tile for Layout 3*	715.12.37.000.00	715.12.47.000.00

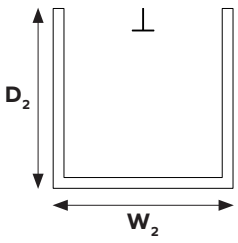
* All 4 infill tile design options are available

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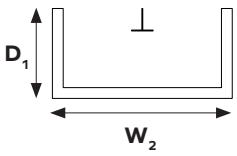
MERO Modular Ceiling Grid
Recomended Layouts

4 Layout 4

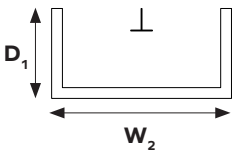
Perimeter Beam



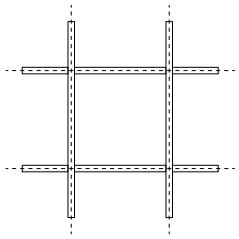
Main Beam



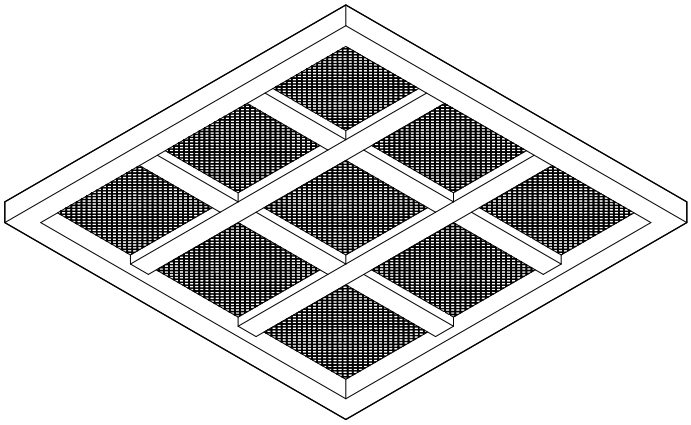
Cross Beam



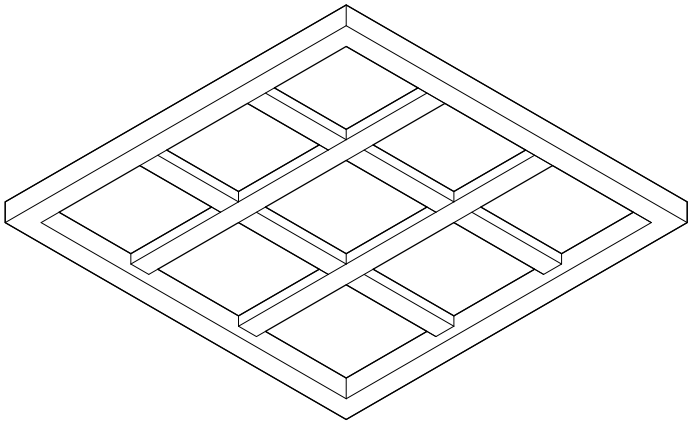
Grid Cell Size



Large
(1200x1200mm)*



With Infill Tile
(Velvet tile)



Without Infill Tile

Dimension tables[1]

	Metric T-Grid	Imperial T-Grid
Name	**Size mm**	**Size Inches**
D_1 Depth 1	100mm	3 15/16"
D_2 Depth 2	200mm	7 7/8"
W_2 Width 2	200mm	7 7/8"
Grid Cell Size	1200 x 1200mm*	48" x 48"*

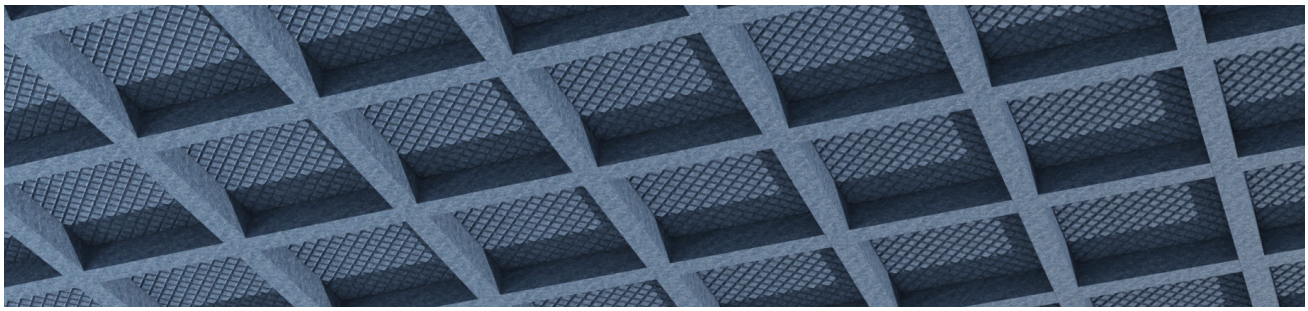
* Grid Cell Sizes will be dependent on the T-Grid available in your region.

Name	Code Metric	Code Imperial
Mero Layout 4 ARCHISONIC® Felt	715.12.34.000.00	715.12.44.000.00
Infill Tile for Layout 4*	715.12.39.000.00	715.12.49.000.00

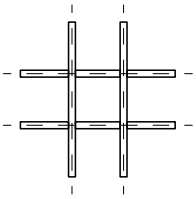
* All 4 infill tile design options are available

MERO Modular Ceiling Grid
Bespoke Layouts

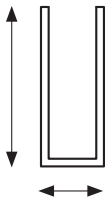
5 Bespoke Layouts



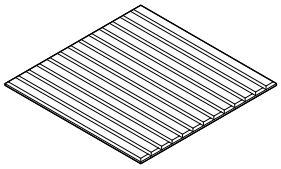
Create your own custom layout using the Mero visualiser on our website, experiment with different beam sizes, grid cell sizes and tile options to find the perfect layout within thousands of available combinations. Use the QR code to visit our website and use the Mero grid visualiser.
Consult our team for feasibility on any bespoke layouts.



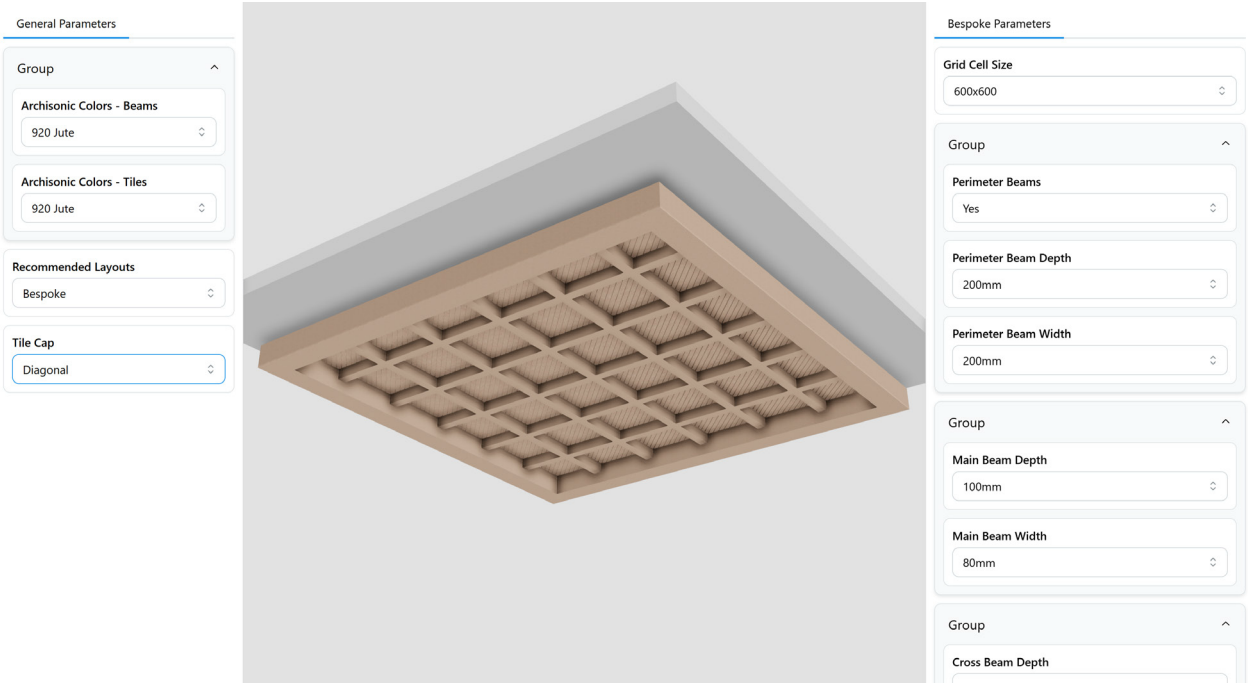
Cell Size



Beam Depth and Width



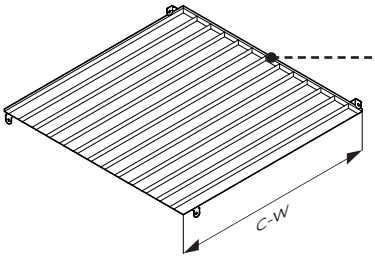
Tile Options



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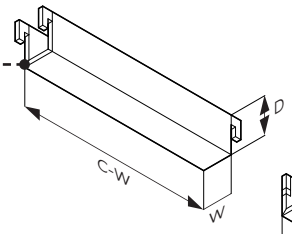
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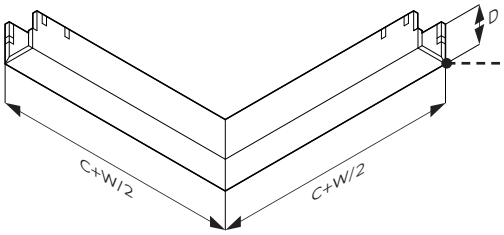
MERO Modular Ceiling Grid
Components



Tile Cap
6 Designs to choose from
ARCHISONIC Felt
12mm

Cross Beam
ARCHISONIC® Felt
12mm



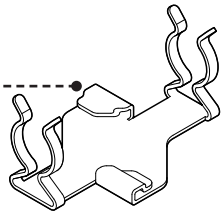


Corner Beam
ARCHISONIC® Felt
12mm

Main Beam
ARCHISONIC® Felt
12mm



Tile Clip
Black Recycled PET



Twist Clip
Stainless steel painted black



Twist Clip Button
Black Recylced PET

Dimensions[1]

W	Width of Beam	80mm / 3 1/8"	200mm/ 7 7/8"	
D	Depth of Beam	100mm / 3 15/16"	200mm/ 7 7/8"	
C	Cell size of grid	600mm / 24"	1200mm / 48"	Subject to Grid type

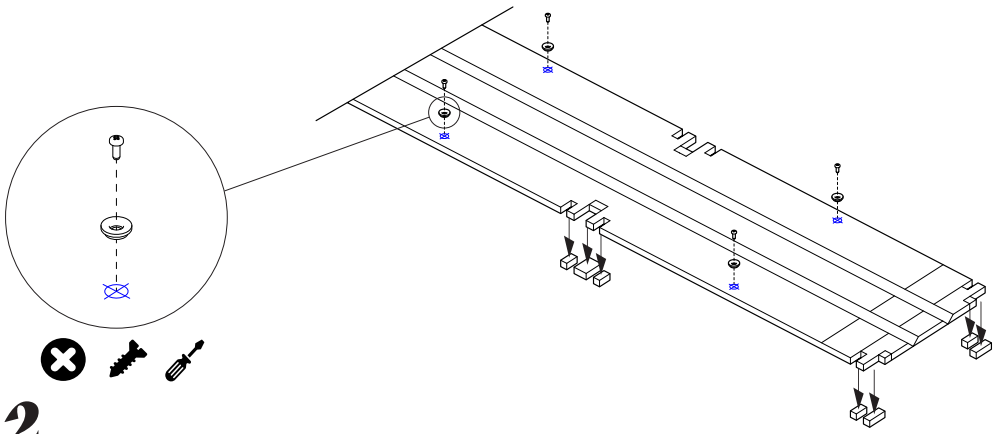
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MERO Modular Ceiling Grid

Installing Beams on T-Grid

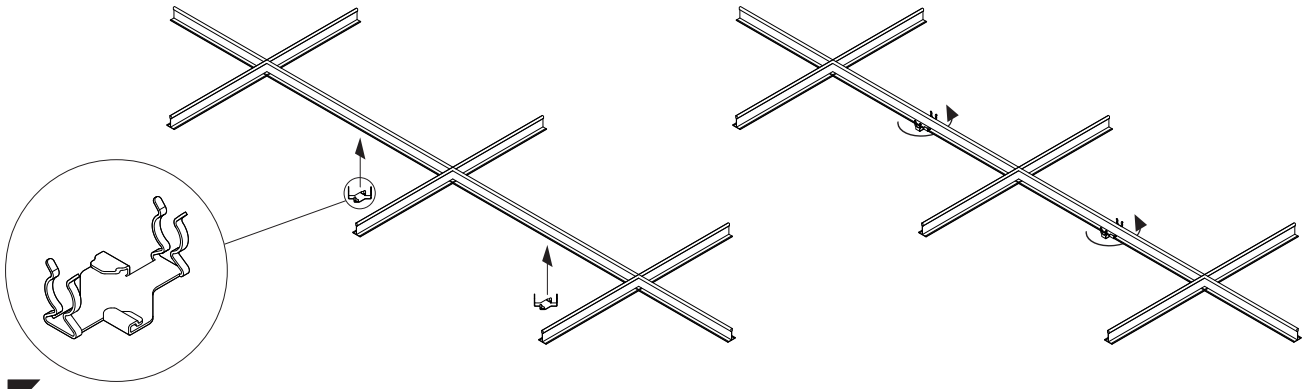
1 Screw in twist clip buttons and rip off the required slots

If the beam is used for a perimeter, do not rip off the smaller tabs on the outward facing side. Otherwise, the holes will be visible.

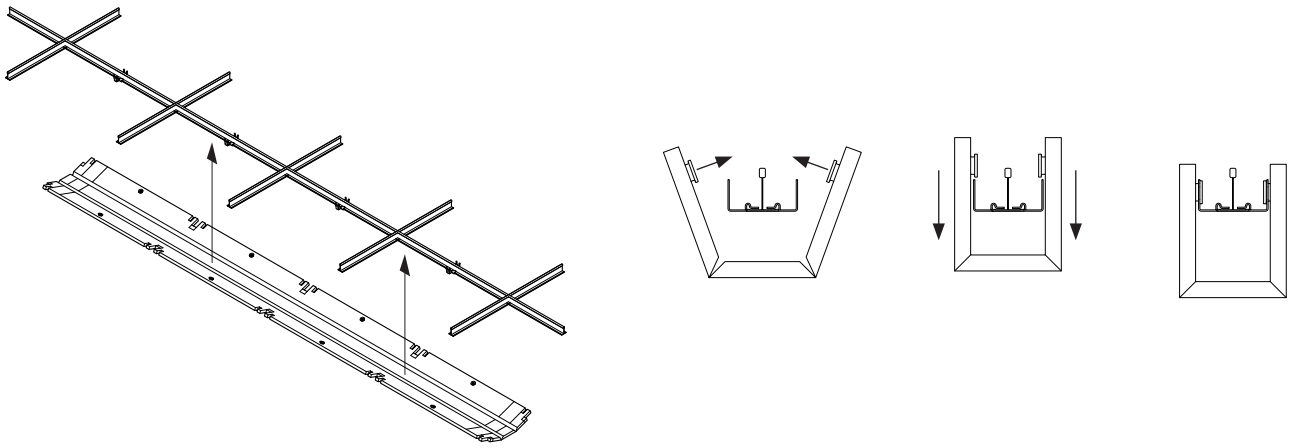


2 Secure twist clips onto the T-Grid

Place the clips on the T-Grid at a 45 degree angle and then rotate to secure, place every 600mm on the main runners starting 300mm from the intersection (do not place on cross T's).



3 Fold main beam around T-Grid and clip onto twist clip

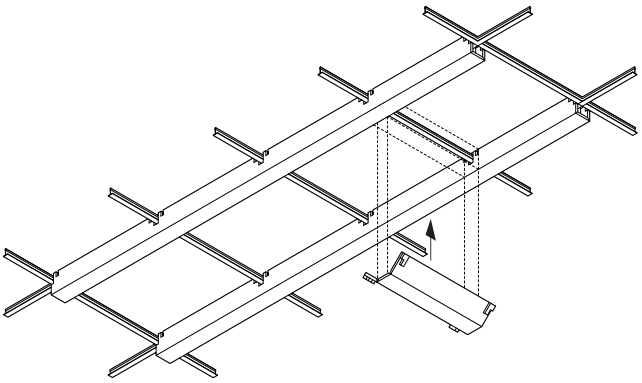


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MERO Modular Ceiling Grid
Installation Overview

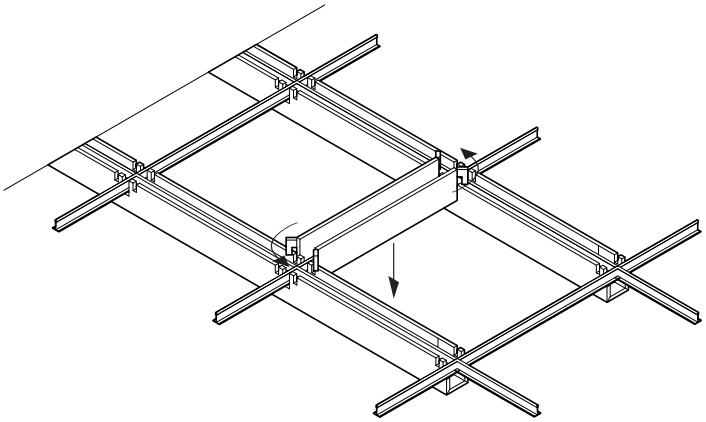
4 Fold the cross beam around the T-Grid

Fold the Cross beam hooks back wards to allow the cross beam to fit.

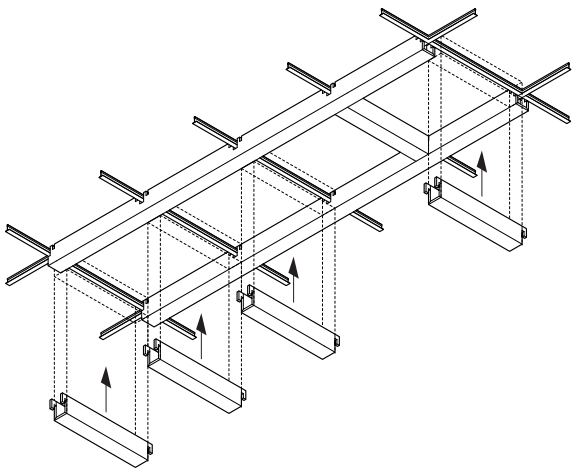


5 Unfold cross beam hooks and slot into main beam

Unfold the cross beam hooks and secure into the rip away slots



6 Repeat across whole installation

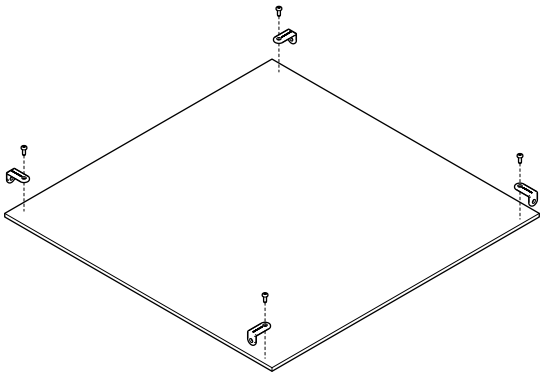


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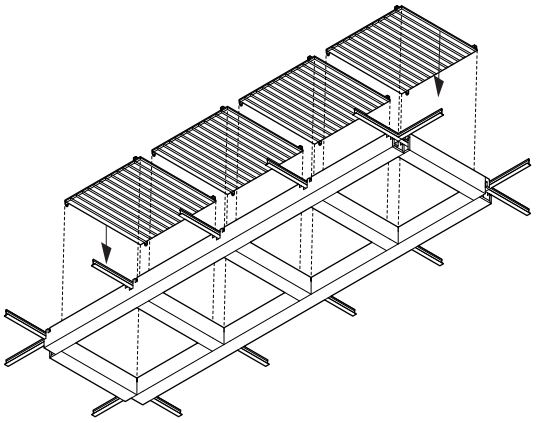
MERO Modular Ceiling Grid
Installation Overview

7 Screw tile clips onto the tiles

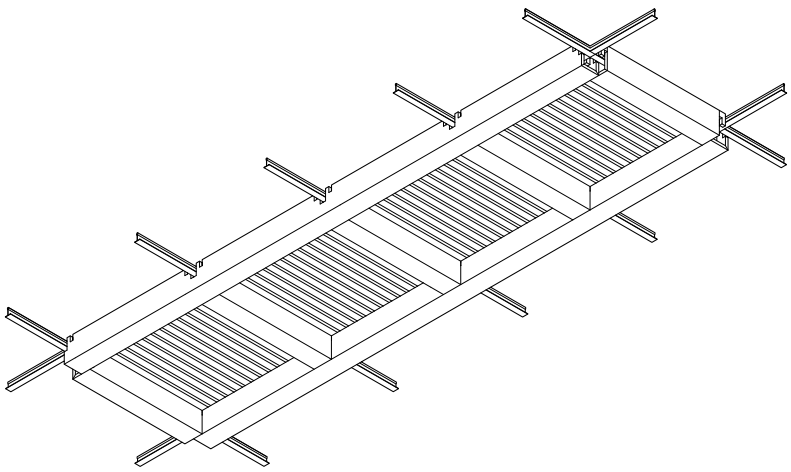
Screw the clips in allowing a gap of 12mm from the edge of the tile and the bend of the clip. Adjust screw position to avoid areas with smaller material thickness i.e. in V grooves.



8 Drop tiles onto grid



9 Finished section

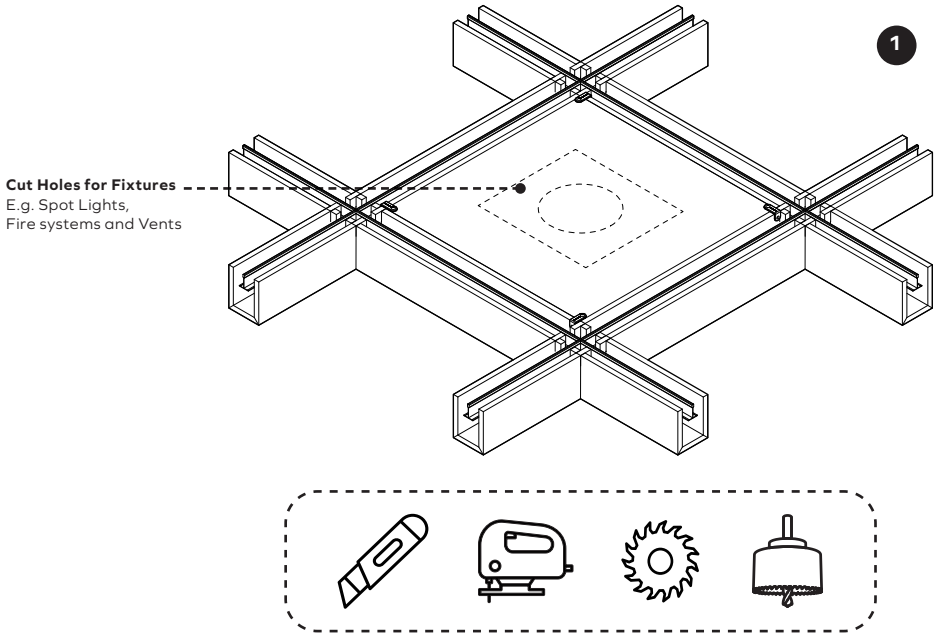


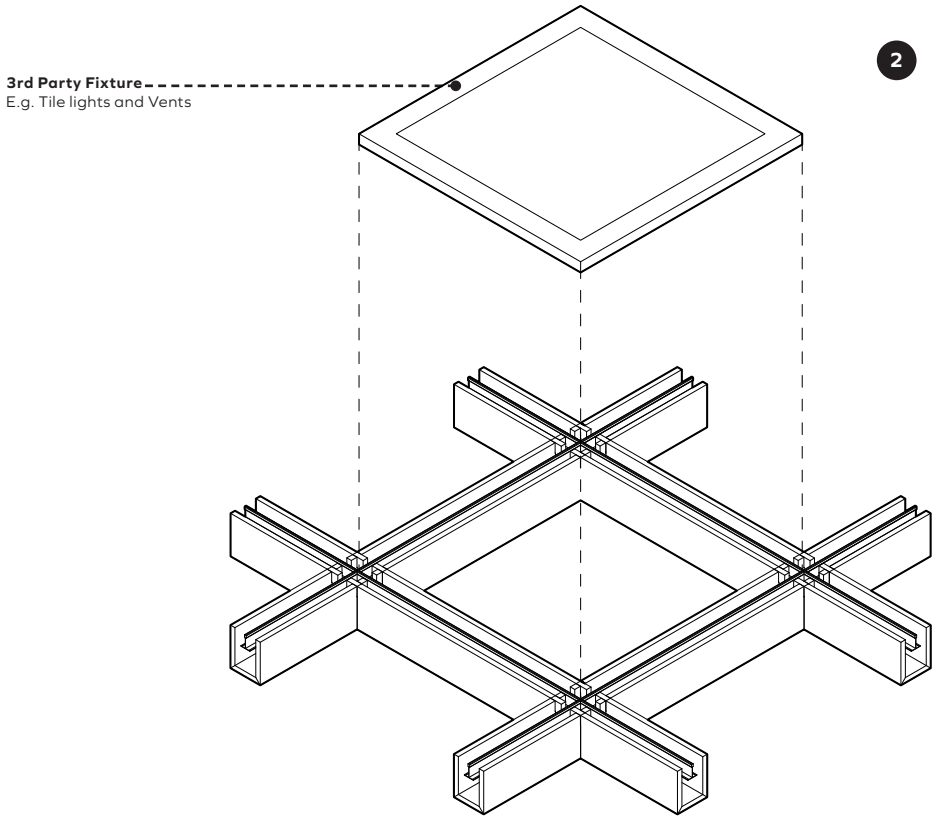
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MERO Modular Ceiling Grid

Fixing 3rd Party Fixtures

To Install 3rd party fixtures like spot lights, Smoke detectors/sprinklers or vents, holes can be cut out of the Infill tiles on site with a sharp carpentry knife, hole saw drill bit or rotary circular saw for wood (ex. Bosch Ø160 x 2,2/1,6 x 20mm, 48HW blade for wood) (Figure 1). Please cut the Felt while flat on the ground before the assembly. Make sure blade does not get hot, this could cause the Felt material to melt and the edge to deform. Larger fixtures like grid tile lights or vents can be placed ontop of the grid as you would in a standard T-Grid installation (Figure 2).





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Colours

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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® Riftcut

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A Synthesis of Nature and Innovation

Developed in collaboration with German veneer specialists Schotten & Hansen and Swiss designer Ina Rinderknecht, ARCHISONIC® Riftcut adds a natural touch to our acclaimed Felt range.



ARCHISONIC® Riftcut Flax 50

Colour options

The printed shades form the basis of 24 colour spectrum, offering interior designers a sophisticated range of options linked to natural dyes.



Sustainable Ink

CP65 and RoHS3 compliant

GREENGUARD
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

Order a free sample set



ARCHISONIC® Riftcut Natural

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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.

107

ELEGANT BRIGHTS



240 Pebble



241 Sunlit



242 Blush

920

ESSENTIAL MIDS



243 Malt



244 Honey



245 Mocha

105

CLASSICAL DARKS



246 Woodsmoke



247 Bourbon



248 Twilight

Sustainable Ink

CP65 and RoHS3 compliant

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PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818
GOLD

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ARCHISONIC® Felt
Material Specification

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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)
Colour Fastness	**Class 6** ISO 105-B02:A1	
Colour	**36 colours** (see ARCHISONIC® Felt Colour 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.	
Production Lead time[3]	21 days	
Fire Rating	DIN EN 13501-1: **B-s1, d0** ASTM E84 **Class A**	
VOC Emission	28 Days French Regulation **A+** ASTM E84 **Pass** Breeam® (International, UK, NL, SE, NOR) **Exemplary** CDPH (CDPH/EHLB/Standard Method V1.2) **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), 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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ARCHISONIC® Felt (Printed op
Material Specification

Product Name	ARCHISONIC® Felt
Content	100% PET (60% certified post-consumer content)
Thickness[1]	12mm (0.47")
Max. Size	1200x2800mm (47"x110")
Acoustic[2, 4]	**ASTM:** NRC=0.6 **ISO**: αw=0.65
Density[1]	2400 g/m² (0.49 lbs/ sqft)
Colour	**33** printed finishes.
Maintenance	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.
Lead Time[3, 4]	21 days
Fire Rating[4]	DIN EN 13501-1: **B-s1, d0** ASTM E84 **Class A**
VOC Emission[4]	28 Days French Regulation **A+** ASTM E84 **Pass** Breeam® (International, UK, NL, SE, NOR) **Exemplary** CDPH (CDPH/EHLB/Standard-Methode V1.2) **Pass**
Certifications[4]	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
Ink Certifications	UL Greenguard, No NVC, No VOCs, No TPO, Vegan, compliant with California Prop65 (CP65) and European Directive RoHS3
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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MERO Modular Ceiling Grid
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
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

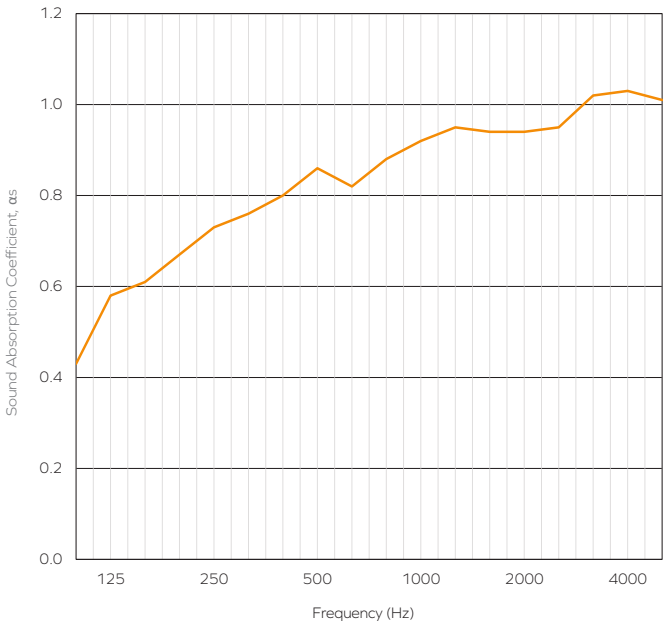
Acoustic Test Results	αw	SAA	NRC
Mero[1]	0.90	0.85	0.85

1 - 12mm ceiling panel measured with 300mm air cavity

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
Mero	α_p	0.55	0.70	0.85	0.90	0.95	1.00



Mero

The table represents the practical sound absorption coefficient (α_p) in accordance with ISO 11654. The graph represents the sound absorption coefficients (αs) in the third octave band center frequencies in accordance with ISO 354. Measurement used Pink Noise as excitation signal in a reverberant room.