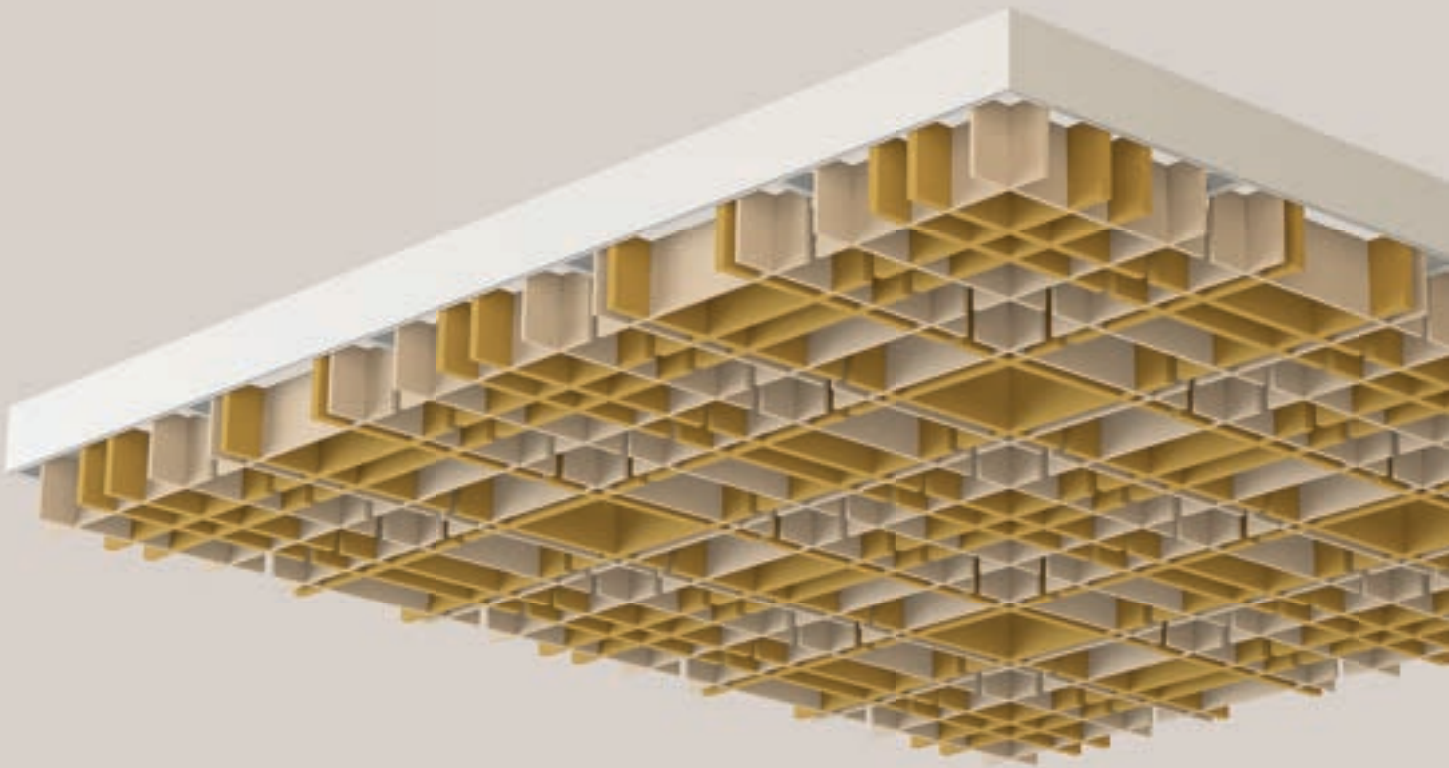




Plaid

Ceiling Tiles

Metric:

- 718.10.00.000.00
- 718.11.00.000.00
- 718.12.00.000.00
- 718.13.00.000.00
- 718.14.00.000.00
- 718.15.00.000.00
- 718.16.00.000.00
- 718.17.00.000.00
- 718.19.00.000.00
- 718.00.10.000.40
- 718.00.11.000.40

Imperial:

- 718.30.00.000.00
- 718.31.00.000.00
- 718.32.00.000.00
- 718.33.00.000.00
- 718.34.00.000.00
- 718.35.00.000.00
- 718.36.00.000.00
- 718.37.00.000.00
- 718.39.00.000.00
- 718.00.12.000.40
- 718.00.13.000.40

Plaid Ceiling Tiles

General Information



Data

Applicable article numbers

Metric		Imperial	
718.10.00.000.00	718.16.00.000.00	718.30.00.000.00	718.36.00.000.00
718.11.00.000.00	718.17.00.000.00	718.31.00.000.00	718.37.00.000.00
718.12.00.000.00	718.19.00.000.00	718.32.00.000.00	718.39.00.000.00
718.13.00.000.00	718.00.10.000.40	718.33.00.000.00	718.00.12.000.40
718.14.00.000.00	718.00.11.000.40	718.34.00.000.00	718.00.13.000.40
718.15.00.000.00		718.35.00.000.00	

Dimensions ¹	Metric Units Version*	Imperial Units Version*
Height	150mm	6"
Width	595 mm	23.75"
Length	595mm	23.75"
Material thickness	12mm and 24mm	0.47" and 0.94"

*This product is offered in different units of measure to accomodate standard T-grid in various locations. Ensure you are specifying the correct version for your T-grid.

Material

Tile 100% PET (60% post-consumer) in 36 colors.



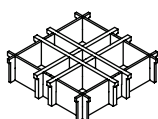
Extended document available

Weight (see pg. 6-14 for individual tile weights)²

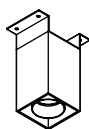
12mm PET material	2.4kg/m ² (±10%)	0.49 lbs/ft ² (±10%)
24mm PET material	4kg/m ² (±10%)	0.82 lbs/ft ² (±10%)

Included

Plaid
Ceiling Tiles



CUBE Lights
(on request)



Installation
guide



Design
revision



Warranty
10 years³



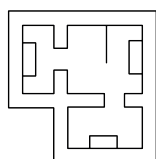
1 - all dimensions are nominal 2 - all weight values are nominal 3 - Impact Acoustic warranty terms apply 4 -T-Grid is not included

Plaid Ceiling Tiles

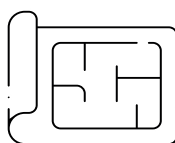
Specification Guide

Ensure you make the perfect choice by choosing our solutions for your next project. To get started, simply define some basic information and constraints about your space. Then explore our range of standard solutions or contact us directly for a more in-depth discussion of personalised customized options.

1 Prepare this information:



Project Area



Ceiling Plans (RCP)

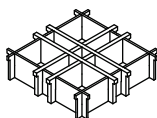
page 17



Other Considerations

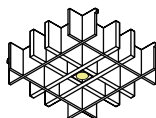
page 17

2 Specify your Tiles:



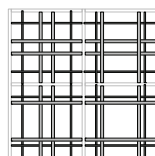
Modules

page 4-5



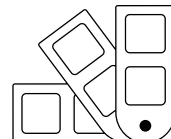
Lighting Option

page 18-19



Layout

page 20-26



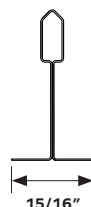
Color 1
Color 2 (Plaid 3-8)

page 27

3 Select installation method:



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

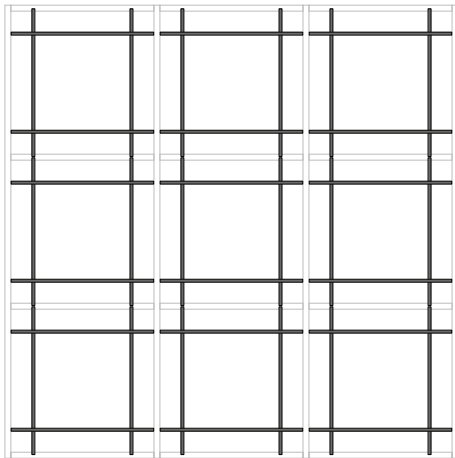
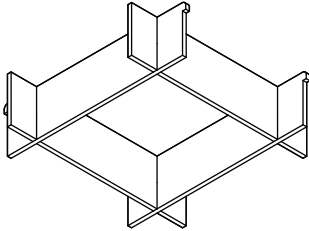


T-Grid (15/16")
*(By Others)

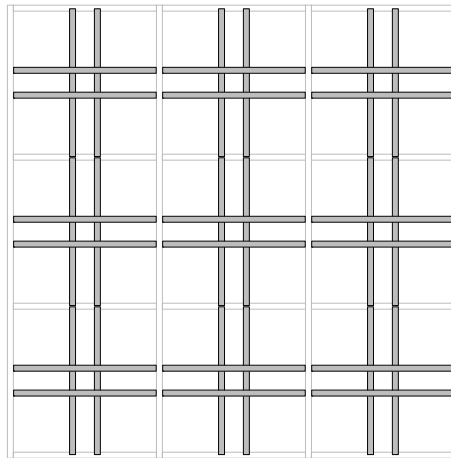
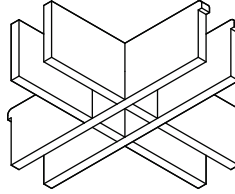
Plaid Ceiling Tiles

Available Designs

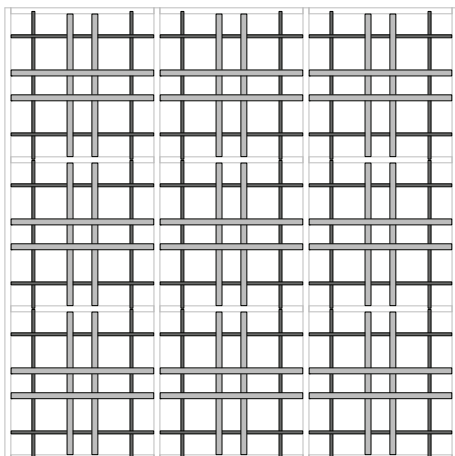
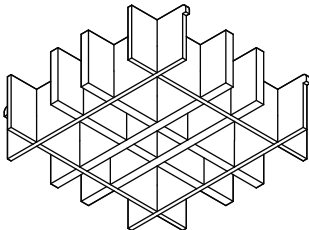
718.10.00.000.00 (Metric) / 718.30.00.000.00 (Imperial)
Plaid 1 Ceiling Tile



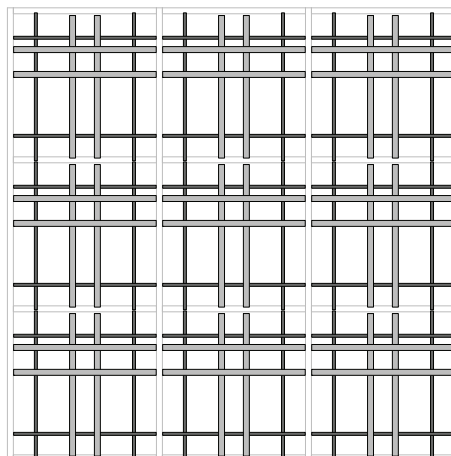
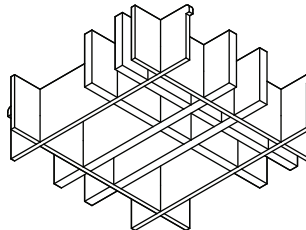
718.11.00.000.00 (Metric) / 718.31.00.000.00 (Imperial)
Plaid 2 Ceiling Tile*



718.12.00.000.00 (Metric) / 718.32.00.000.00 (Imperial)
Plaid 3 Ceiling Tile*



718.13.00.000.00 (Metric) / 718.33.00.000.00 (Imperial)
Plaid 4 Ceiling Tile*

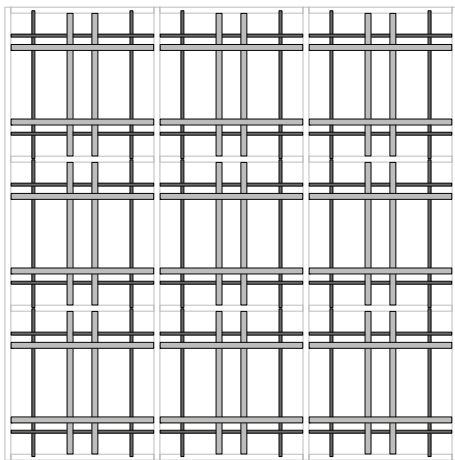
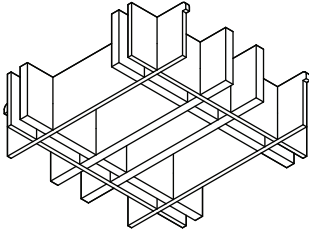


*Indicates Cube Light Compatibility

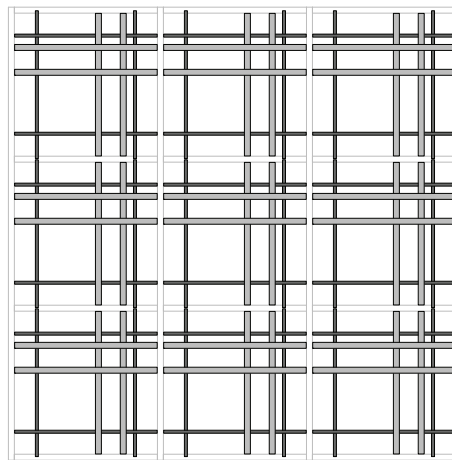
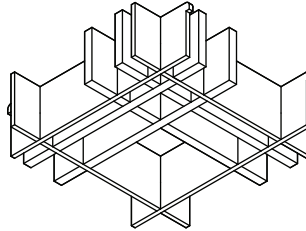
Plaid Ceiling Tiles

Available Designs

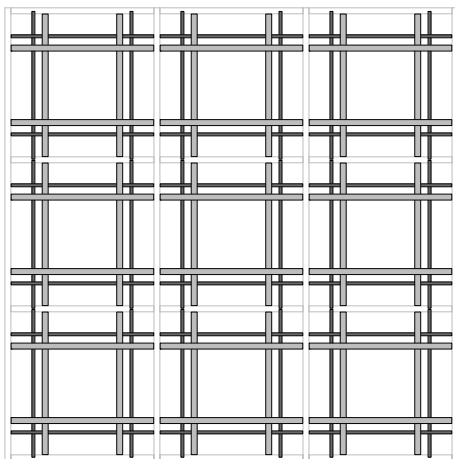
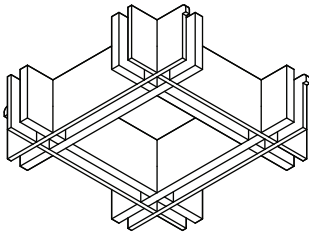
718.14.00.000.00 (Metric) / 718.34.00.000.00 (Imperial)
Plaid 5 Ceiling Tile*



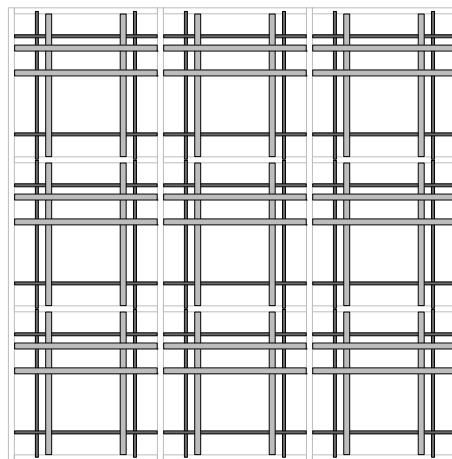
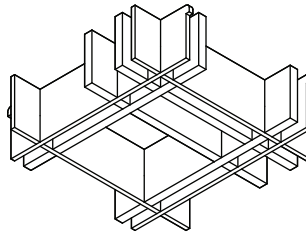
718.15.00.000.00 (Metric) / 718.35.00.000.00 (Imperial)
Plaid 6 Ceiling Tile*



718.16.00.000.00 (Metric) / 718.36.00.000.00 (Imperial)
Plaid 7 Ceiling Tile



718.17.00.000.00 (Metric) / 718.37.00.000.00 (Imperial)
Plaid 8 Ceiling Tile*



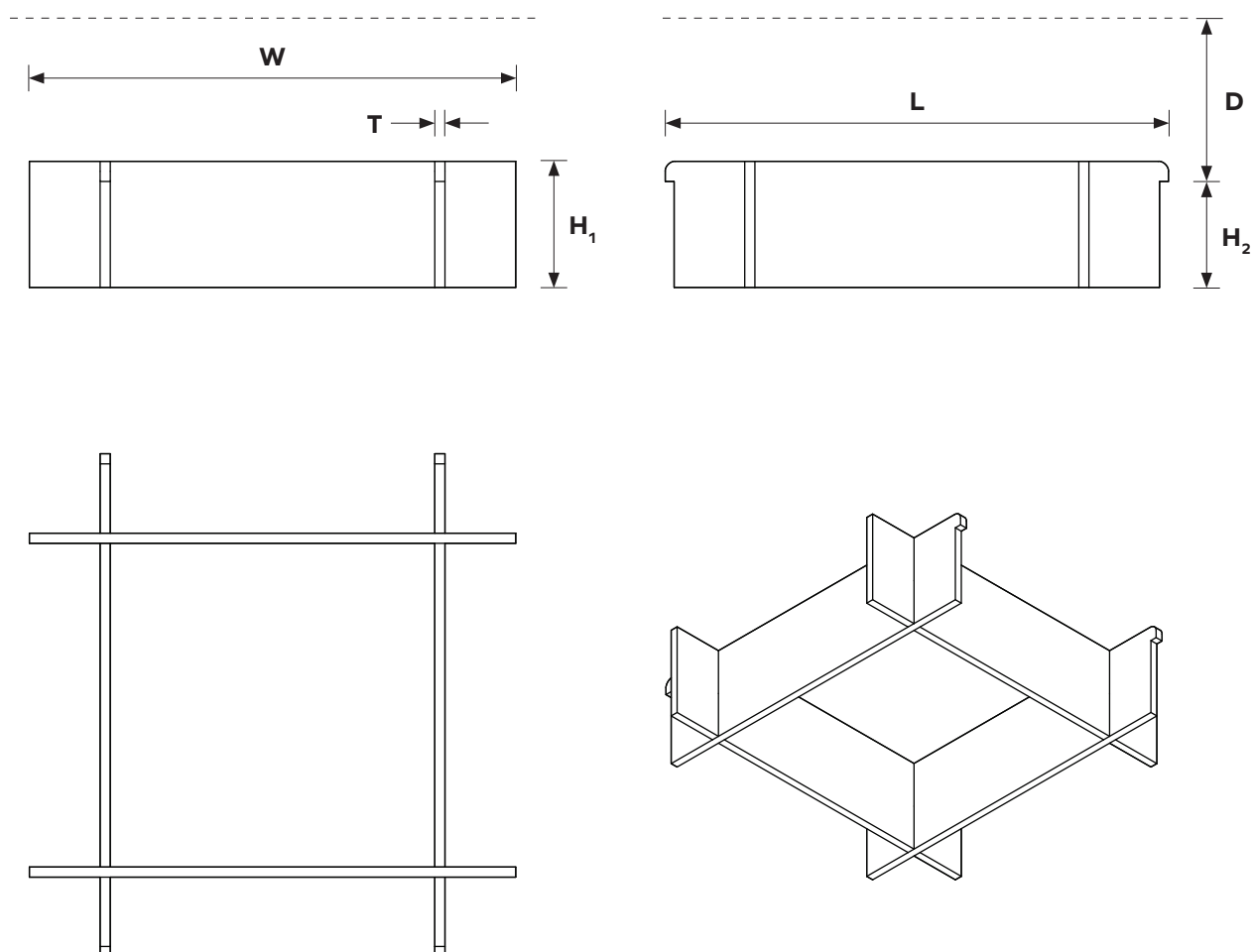
*Indicates Cube Light Compatibility

Plaid Ceiling Tiles

Geometry Information

Plaid 1 Ceiling Tile

718.10.00.000.00 (Metric) / 718.30.00.000.00 (Imperial)



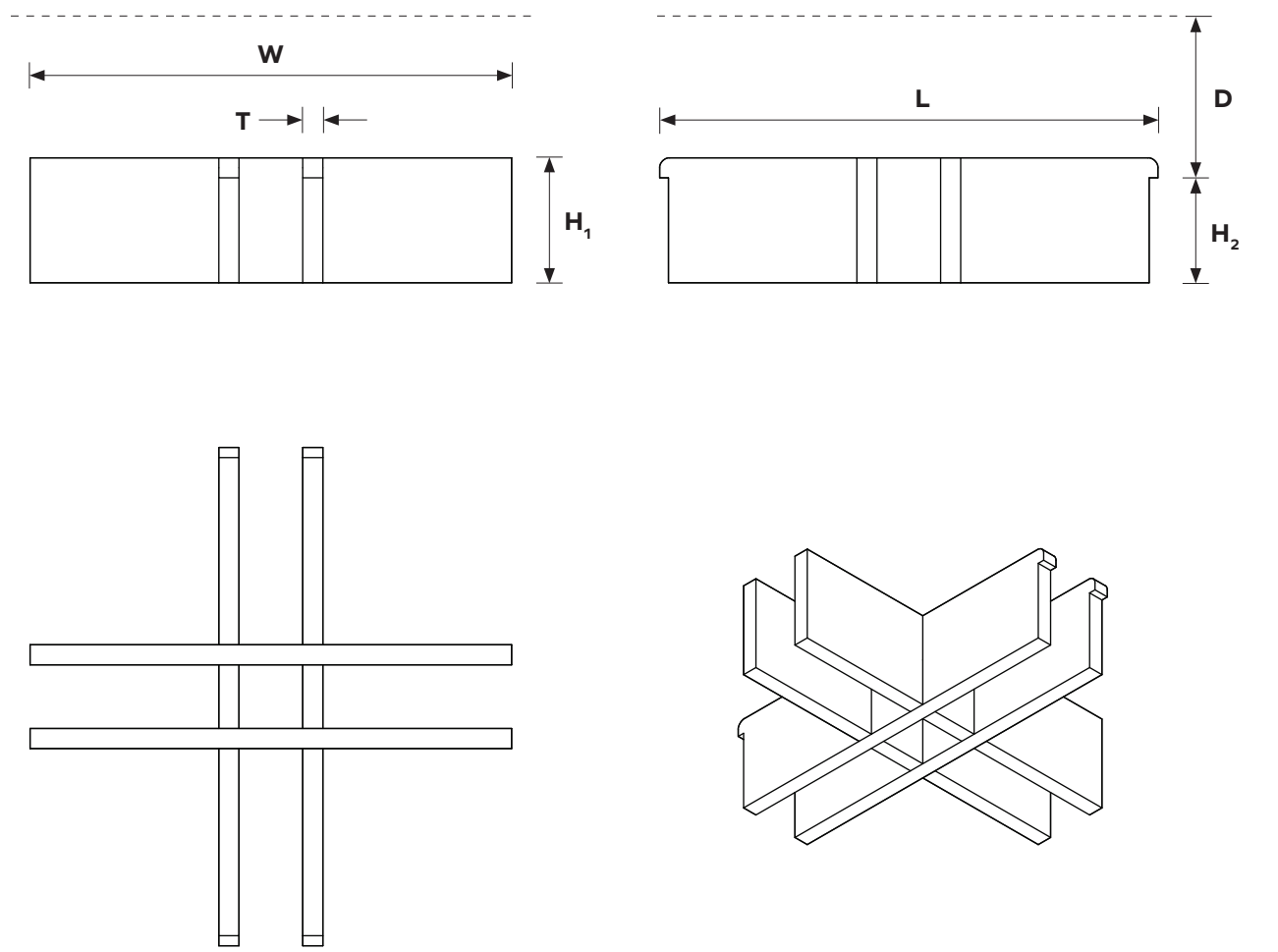
Dimensions table		Metric	Imperial
W	Total width	595mm	23.75"
L	Total length	595mm	23.75"
H₁	Total height	150mm	6"
H₂	Height (Below T-Grid)	126mm	5.5"
D	Distance from ceiling	min. 300mm	min. 12"
T	Material Thickness	12mm	.47"
-	Tile Weight	.82kg	1.8lbs

Plaid Ceiling Tiles

Geometry Information

Plaid 2 Ceiling Tile

718.11.00.000.00 (Metric) / 718.31.00.000.00 (Imperial)



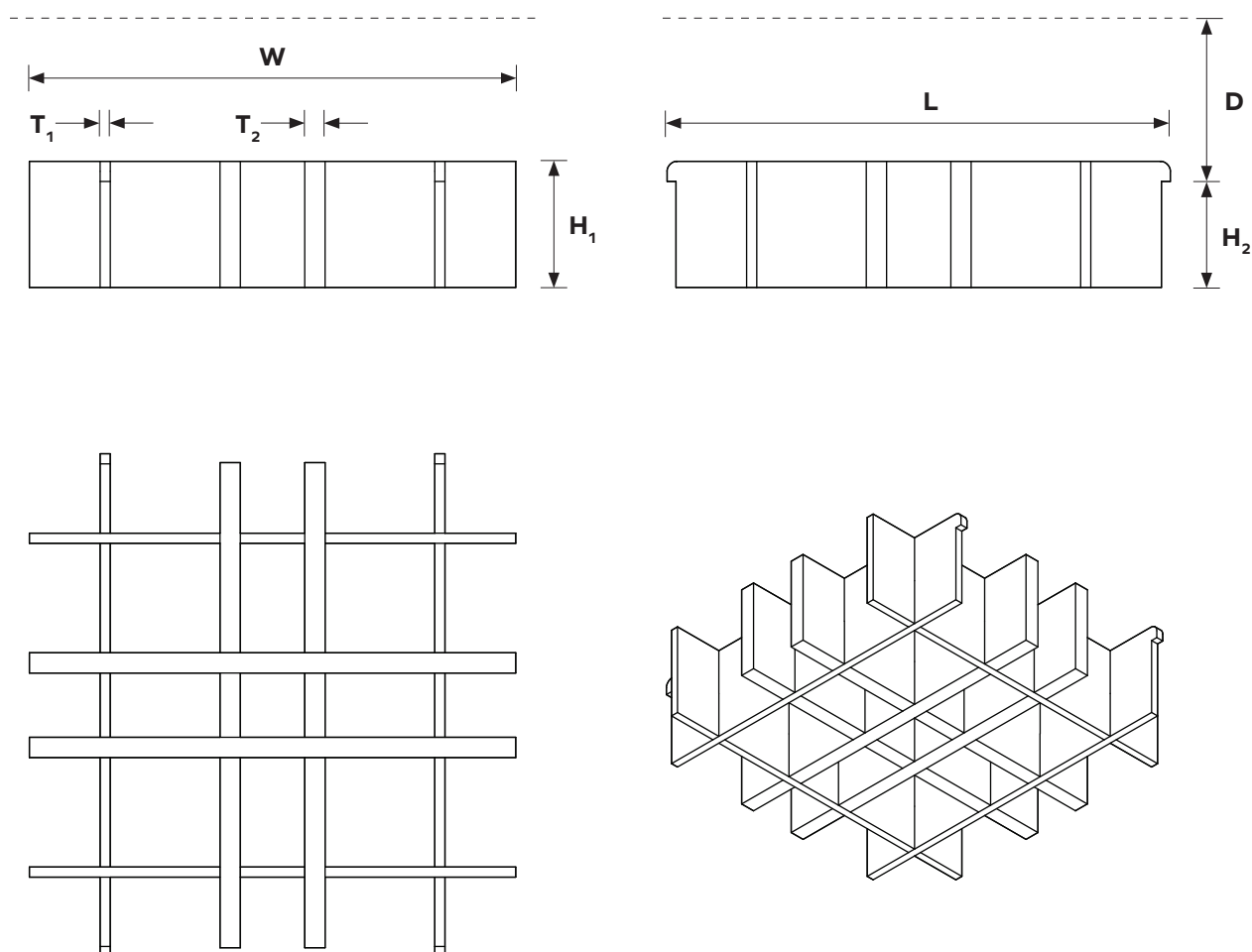
Dimensions table		Metric	Imperial
W	Total width	595mm	23.75"
L	Total length	595mm	23.75"
H₁	Total height	150mm	6"
H₂	Height (Below T-Grid)	126mm	5.5"
D	Distance from ceiling	min. 300mm	min. 12"
T	Material Thickness	24mm	.94"
-	Tile Weight	1.32kg	2.9lbs

Plaid Ceiling Tiles

Geometry Information

Plaid 3 Ceiling Tile

718.12.00.000.00 (Metric) / 718.32.00.000.00 (Imperial)



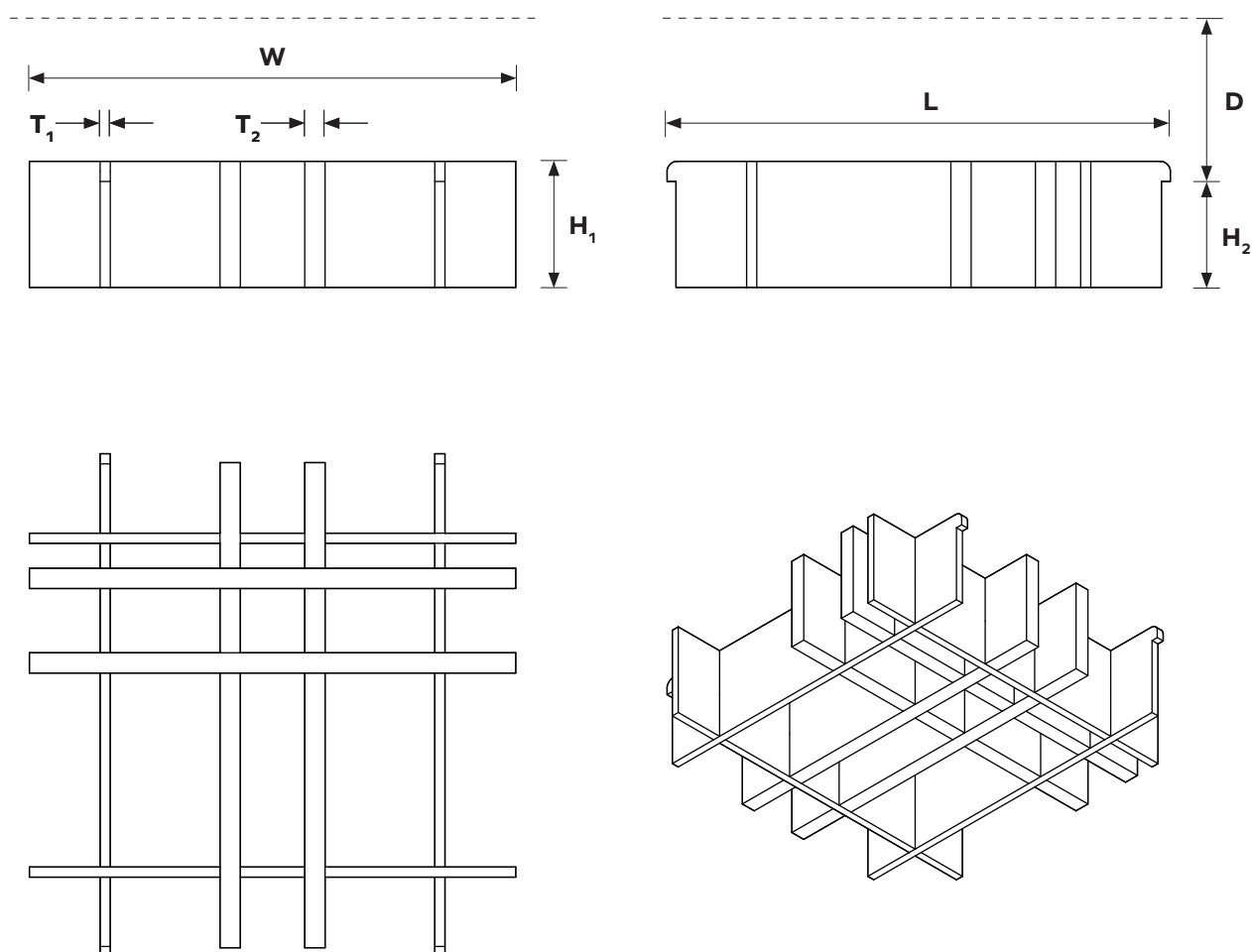
Dimensions table		Metric	Imperial
W	Total width	595mm	23.75"
L	Total length	595mm	23.75"
H₁	Total height	126mm	5.5"
H₂	Height (Below T-Grid)	150mm	6"
D	Distance from ceiling	min. 300mm	min. 12"
T₁	Material Thickness (1)	12mm	.47"
T₂	Material Thickness (2)	24mm	.94"
-	Tile Weight	2.05kg	4.5lbs

Plaid Ceiling Tiles

Geometry Information

Plaid 4 Ceiling Tile

718.13.00.000.00 (Metric) / 718.33.00.000.00 (Imperial)



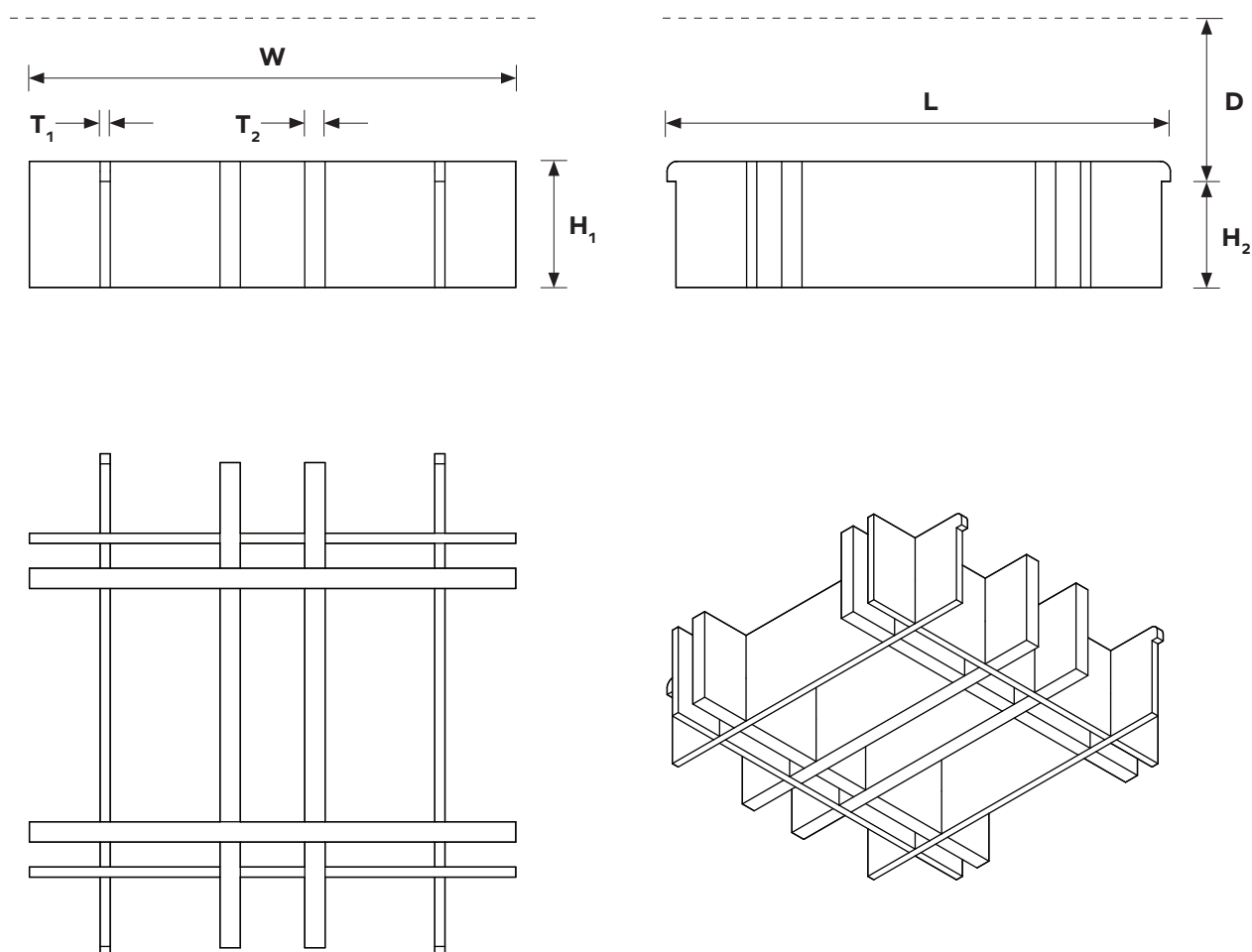
Dimensions table		Metric	Imperial
W	Total width	595mm	23.75"
L	Total length	595mm	23.75"
H₁	Total height	126mm	5.5"
H₂	Height (Below T-Grid)	150mm	6"
D	Distance from ceiling	min. 300mm	min. 12"
T₁	Material Thickness (1)	12mm	.47"
T₂	Material Thickness (2)	24mm	.94"
-	Tile Weight	2.05kg	4.5lbs

Plaid Ceiling Tiles

Geometry Information

Plaid 5 Ceiling Tile

718.14.00.000.00 (Metric) / 718.34.00.000.00 (Imperial)



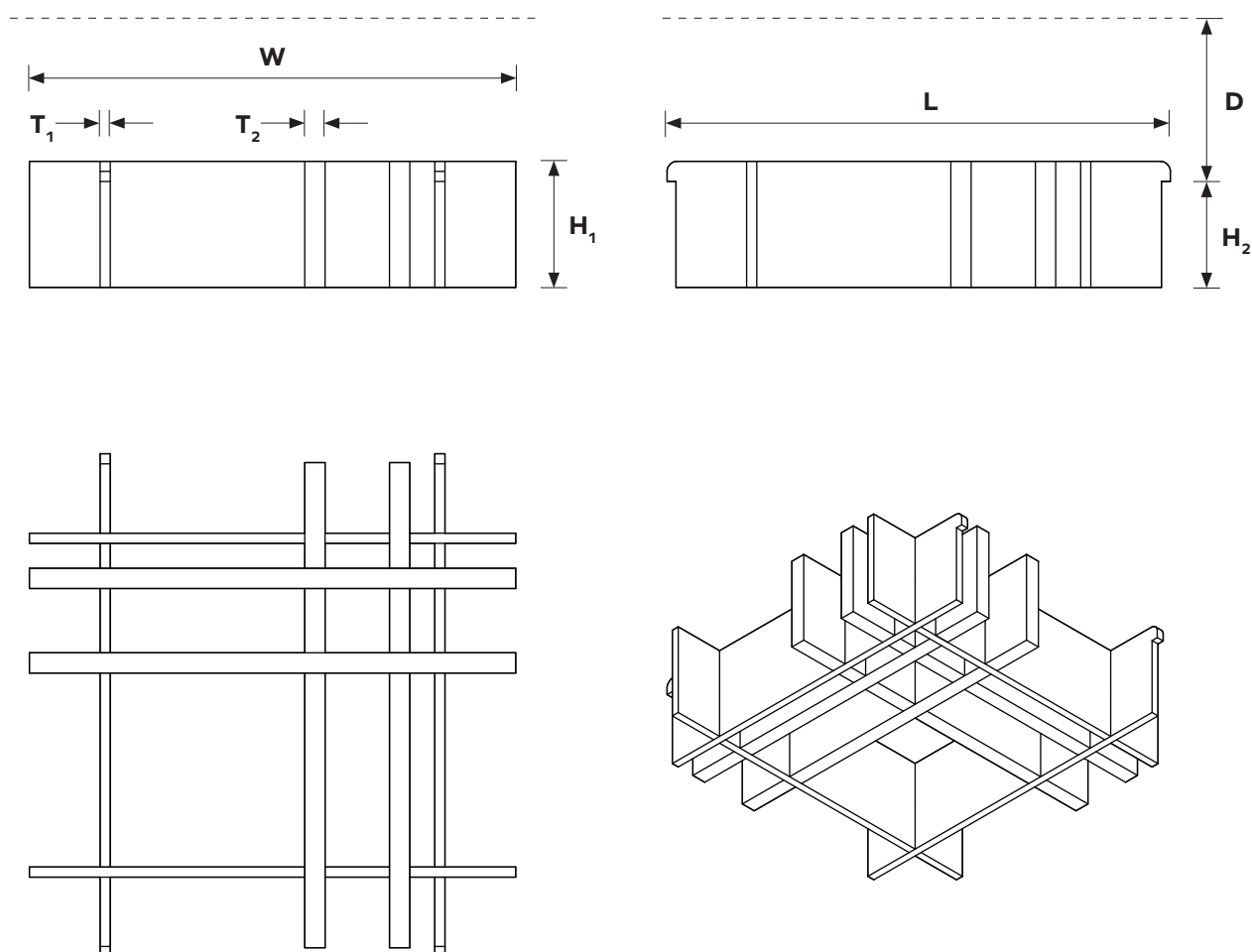
Dimensions table		Metric	Imperial
W	Total width	595mm	23.75"
L	Total length	595mm	23.75"
H₁	Total height	126mm	5.5"
H₂	Height (Below T-Grid)	150mm	6"
D	Distance from ceiling	min. 300mm	min. 12"
T₁	Material Thickness (1)	12mm	.47"
T₂	Material Thickness (2)	24mm	.94"
-	Tile Weight	2.05kg	4.5lbs

Plaid Ceiling Tiles

Geometry Information

Plaid 6 Ceiling Tile

718.15.00.000.00 (Metric) / 718.35.00.000.00 (Imperial)



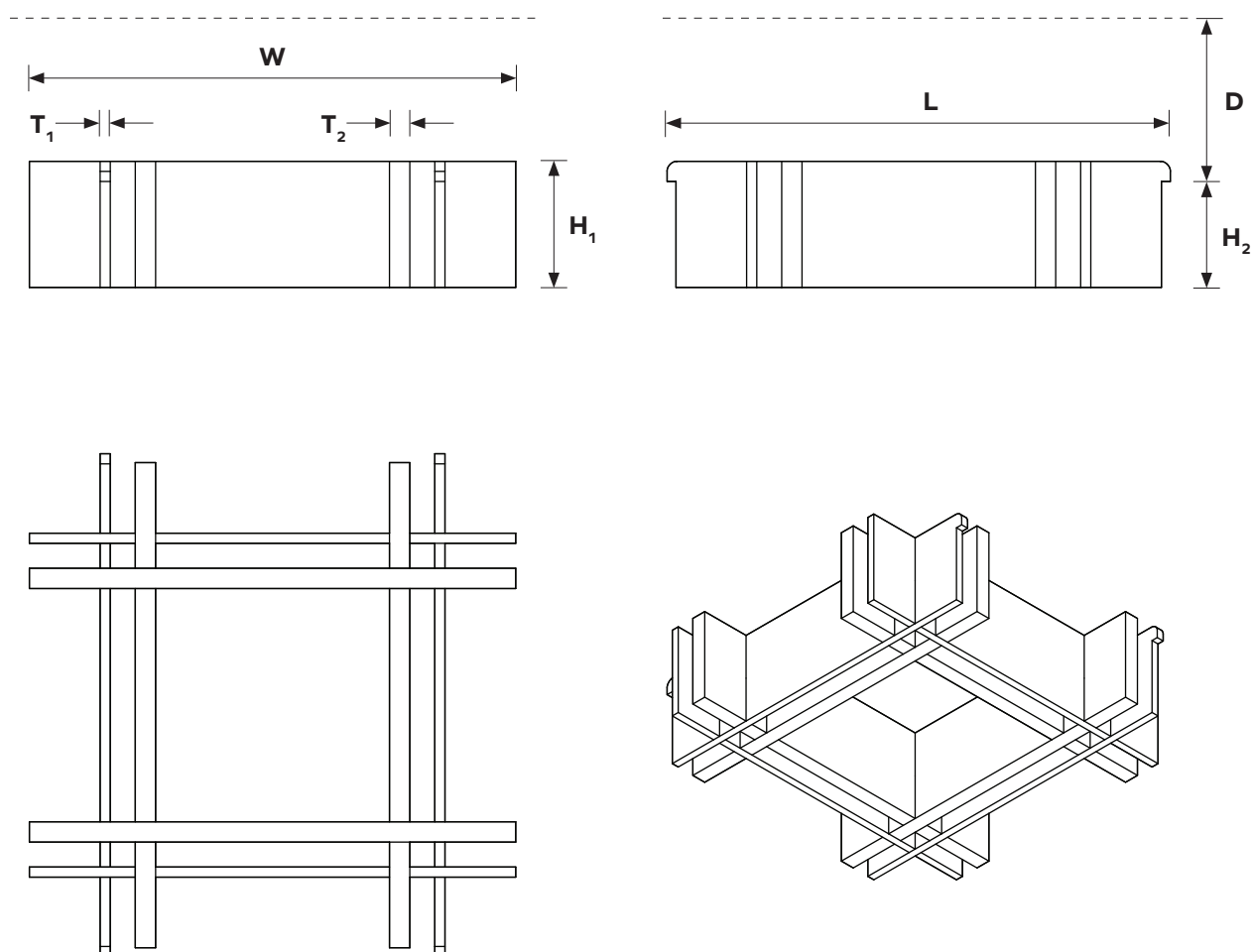
Dimensions table		Metric	Imperial
W	Total width	595mm	23.75"
L	Total length	595mm	23.75"
H₁	Total height	126mm	5.5"
H₂	Height (Below T-Grid)	150mm	6"
D	Distance from ceiling	min. 300mm	min. 12"
T₁	Material Thickness (1)	12mm	.47"
T₂	Material Thickness (2)	24mm	.94"
-	Tile Weight	2.05kg	4.5lbs

Plaid Ceiling Tiles

Geometry Information

Plaid 7 Ceiling Tile

718.16.00.000.00 (Metric) / 718.36.00.000.00 (Imperial)



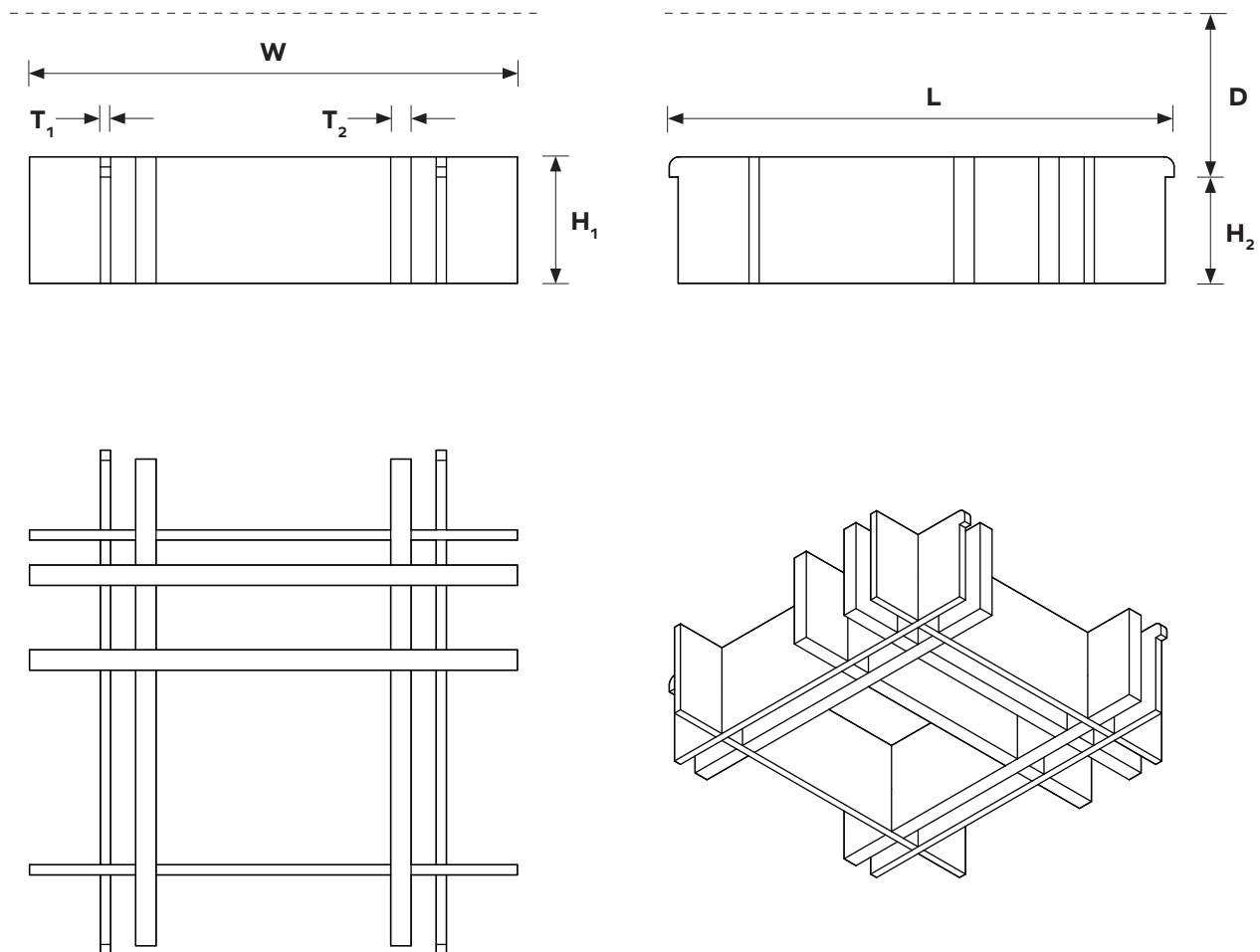
Dimensions table		Metric	Imperial
W	Total width	595mm	23.75"
L	Total length	595mm	23.75"
H₁	Total height	126mm	5.5"
H₂	Height (Below T-Grid)	150mm	6"
D	Distance from ceiling	min. 300mm	min. 12"
T₁	Material Thickness (1)	12mm	.47"
T₂	Material Thickness (2)	24mm	.94"
-	Tile Weight	2.05kg	4.5lbs

Plaid Ceiling Tiles

Geometry Information

Plaid 8 Ceiling Tile

718.17.00.000.00 (Metric) / 718.37.00.000.00 (Imperial)



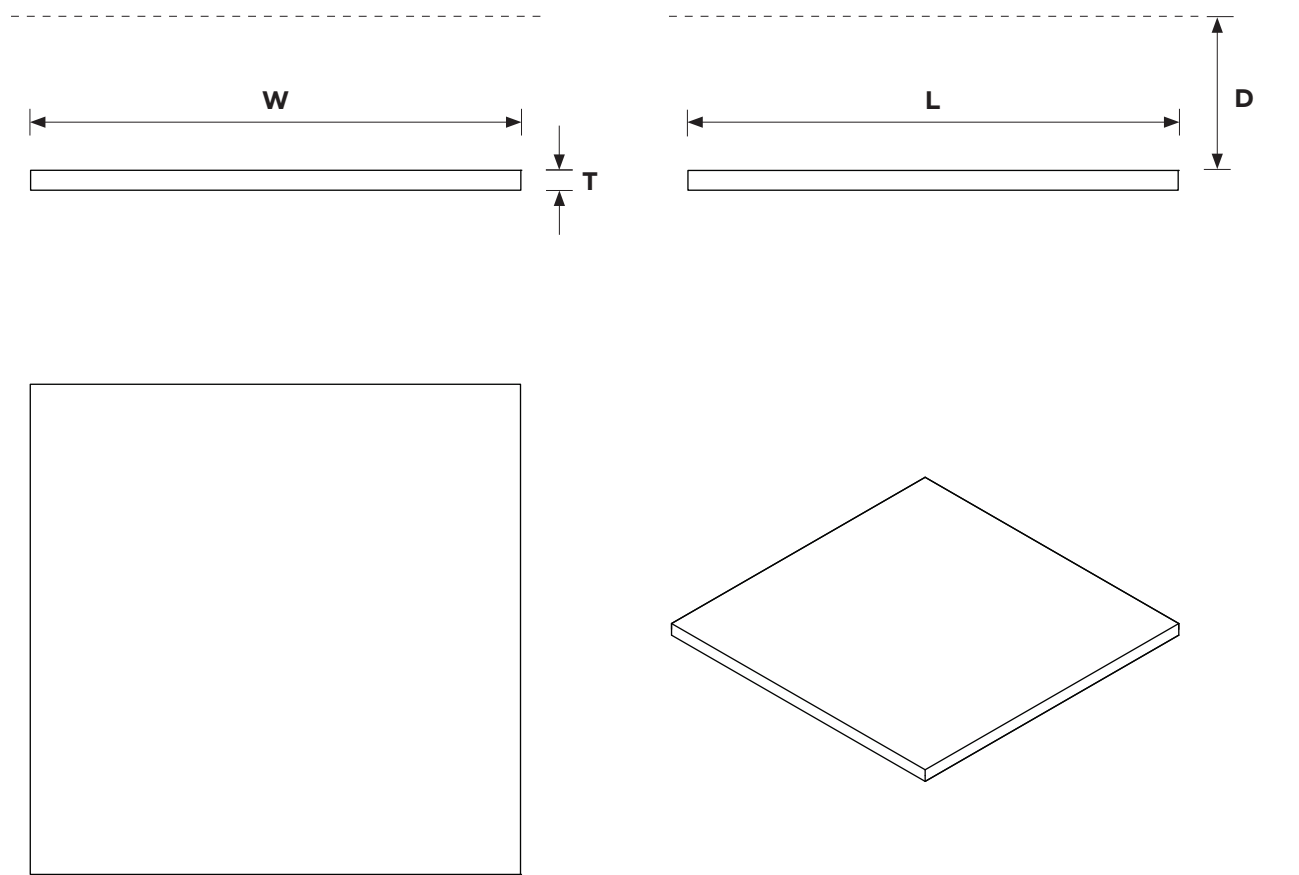
Dimensions table		Metric	Imperial
W	Total width	595mm	23.75"
L	Total length	595mm	23.75"
H₁	Total height	126mm	5.5"
H₂	Height (Below T-Grid)	150mm	6"
D	Distance from ceiling	min. 300mm	min. 12"
T₁	Material Thickness (1)	12mm	.47"
T₂	Material Thickness (2)	24mm	.94"
-	Tile Weight	2.05kg	4.5lbs

Plaid Ceiling Tiles

Geometry Information

24mm Infill

718.19.00.000.00 (Metric) / 718.39.00.000.00 (Imperial)



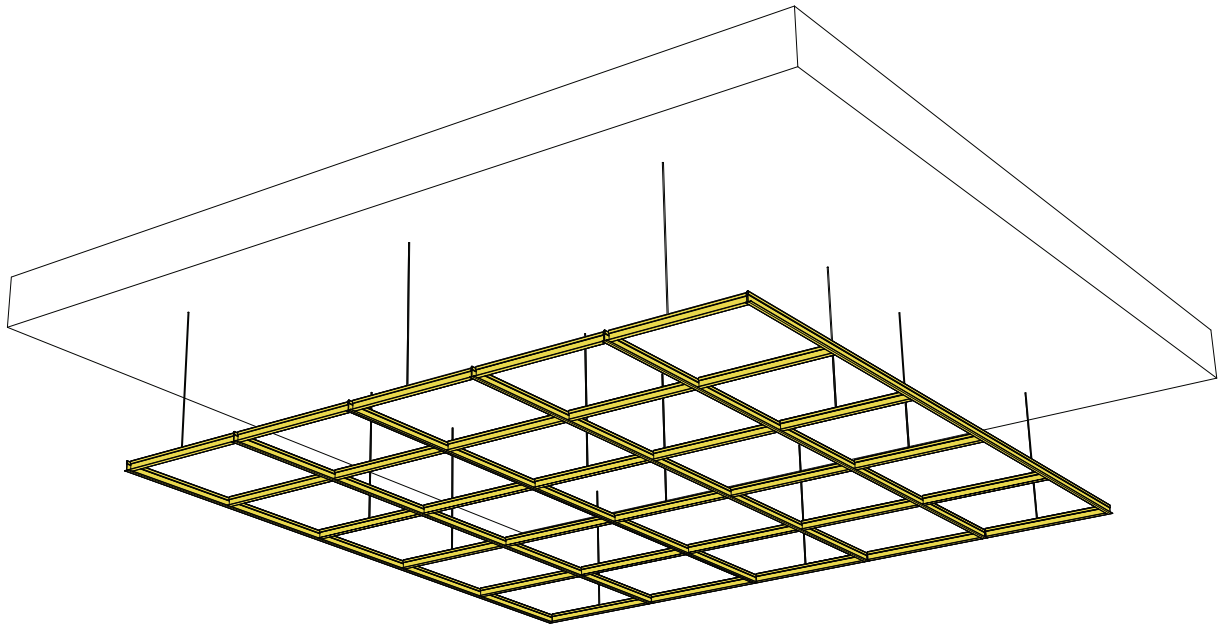
Dimensions table		Metric	Imperial
W	Total width	595mm	23.75"
L	Total length	595mm	23.75"
D	Distance from ceiling	min. 300mm	min. 12"
T	Material Thickness	24mm	.94"
-	Tile Weight	1.4kg	3.09lbs

Plaid Ceiling Tiles

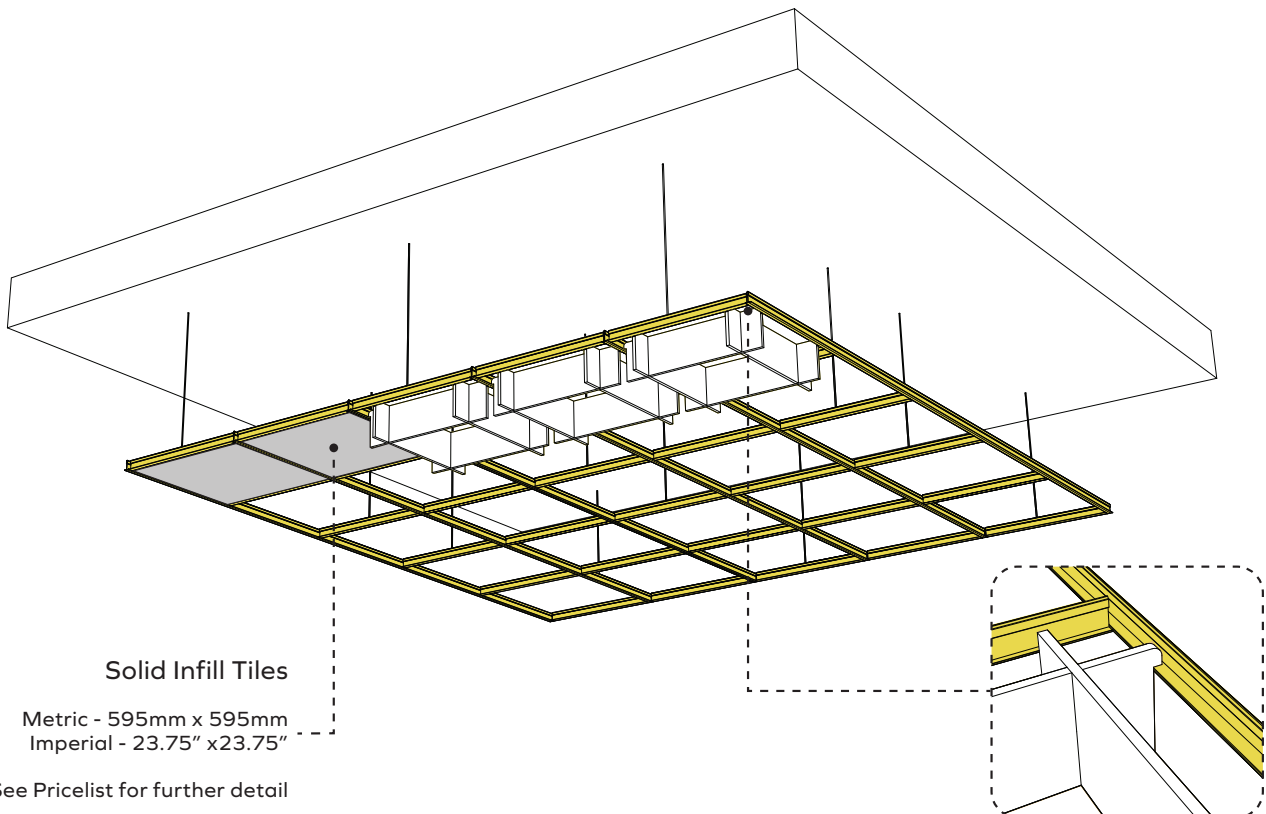
Installation Overview

1 Primary and secondary 3rd party substructure

For the ceiling substructure 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**.



2 Plaid Tile Installed in 3rd party substructure

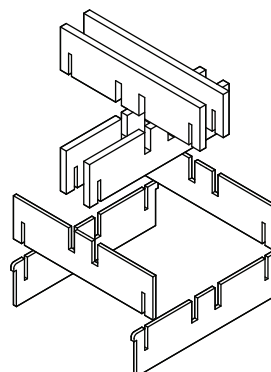


Plaid Ceiling Tiles

Installation Overview

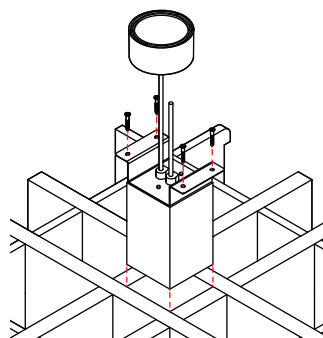
1 Assemble Tiles

Assemble fins, ensuring the connection tabs are at the top of the tile.



1a *Optional: Attach CUBE Light

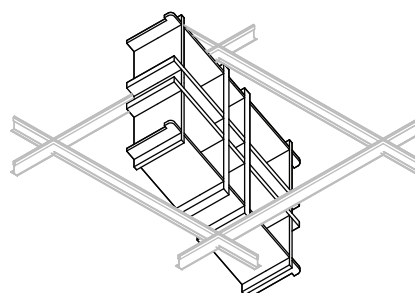
Lower CUBE Light into assembled tile, ensuring brackets are aligned to fins and secure using screws. (See lighting manufacturer's documentation for further detail and wiring instructions.)



2 Angle Tile Through Grid*

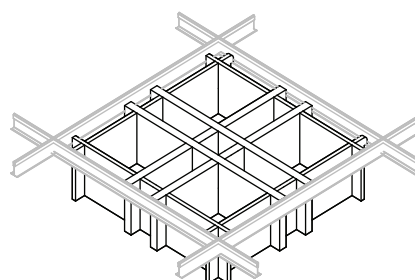
Tip the tile upward and align diagonally to T-grid cell. Then bring the tile above the grid.

*Note: Min. 300mm/12" space above T-Grid is required



3 Align and Lower Tile

With the tile above the grid rotate to align with the cell. Carefully lower the tile.



Plaid Ceiling Tiles

Planning Considerations



Extended document available

When planning the addition of a Plaid Ceilings to your space, please consider the following aspects.

1 Project Area

Check and verify the project area where the Plaid Ceiling Tiles will be installed. This will allow us to provide you with an accurate quote.

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

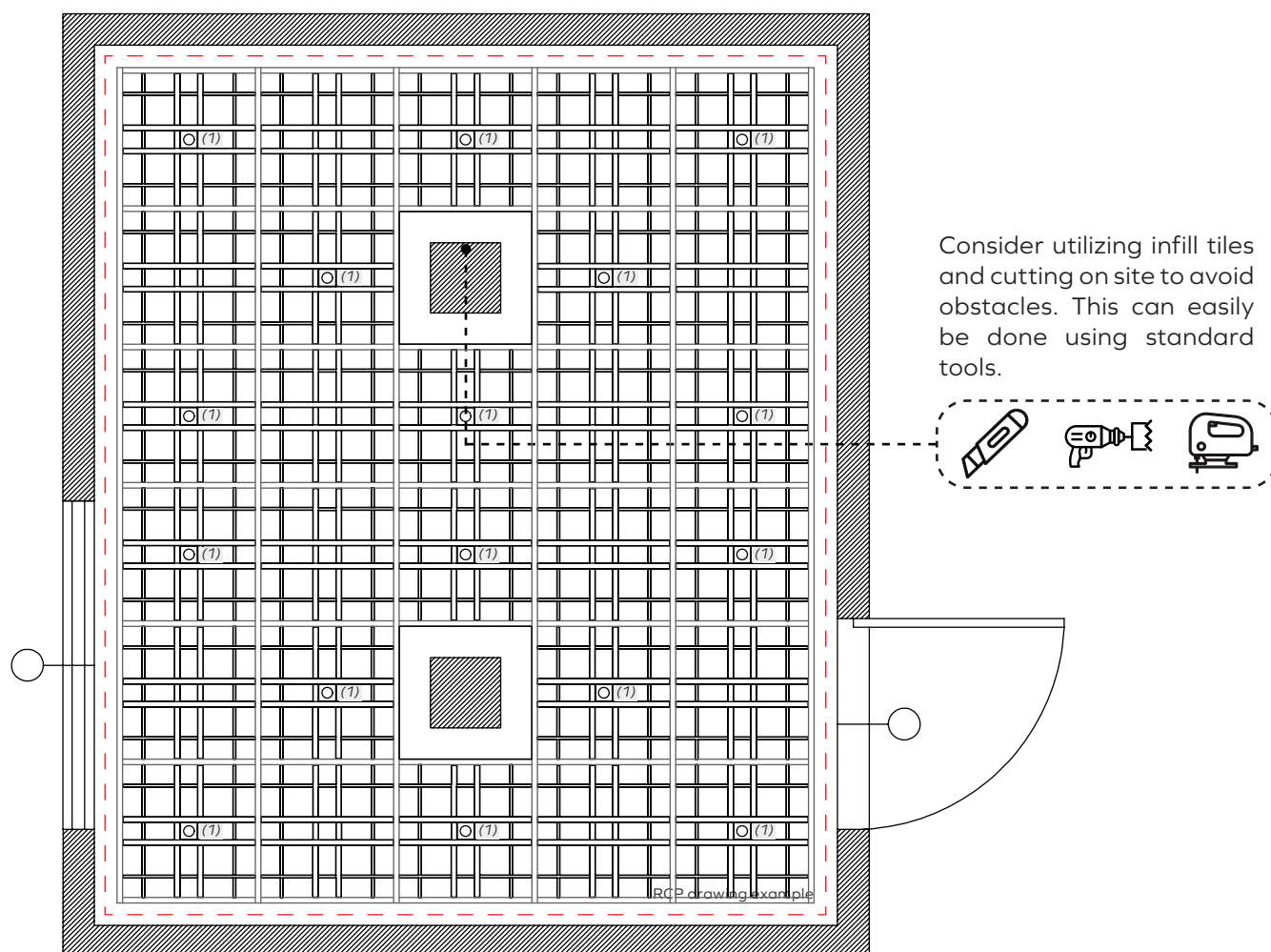
2 Lighting

Plan for proper light conditions in the space. You can easily implement our optional LED Cube light (1) solution in selected tiles. We recommend performing a light analysis for your space in order to specify the right quantity and location of spot light elements. See more on page 18 and 19.

3 Additional considerations

Consider access to high windows and doors.

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



Plaid Ceiling Tiles

CUBE Light Specifications

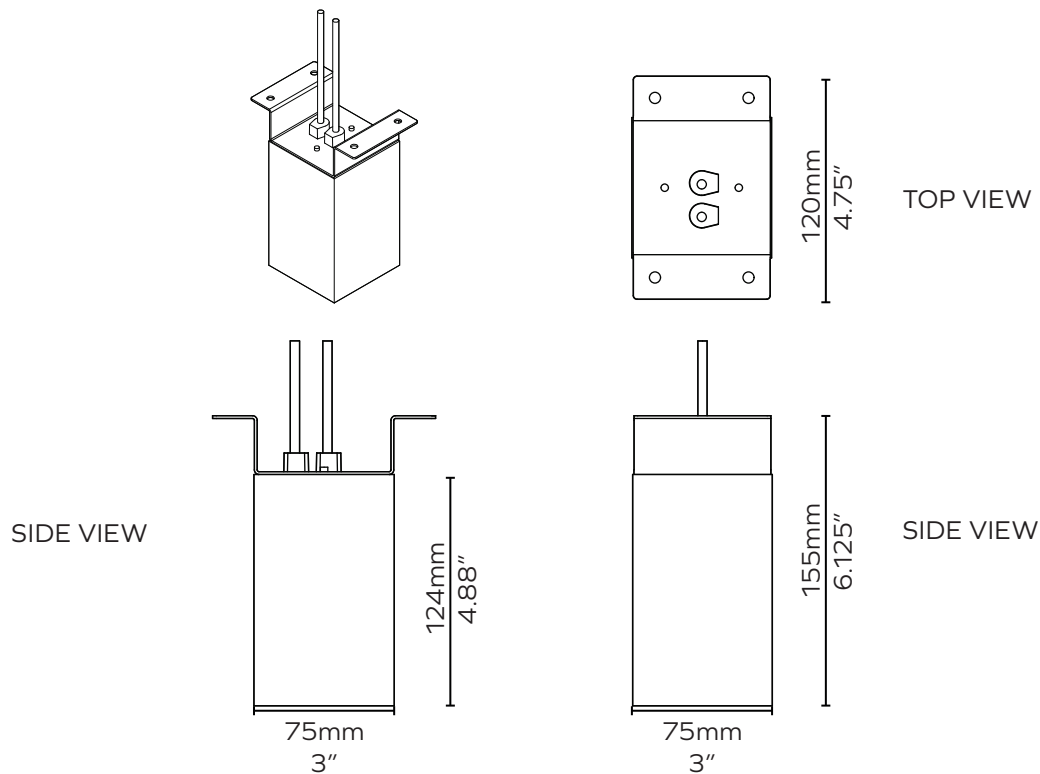
CUBE Light Article Numbers and Descriptions:

718.00.10.000.40: CUBE Primary - 4000K (DALI)

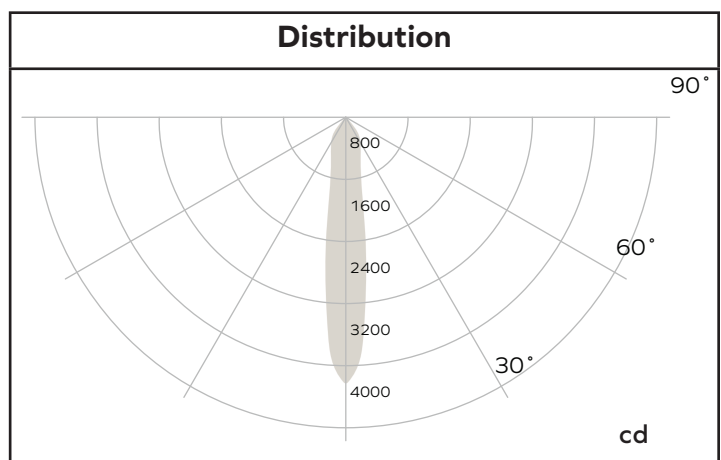
718.00.10.000.40: CUBE Secondary - 4000K (DALI)

718.00.12.000.40: CUBE Primary - 4000K (1-10V UL Version)

718.00.13.000.40: CUBE Secondary - 4000K (1-10V UL Version)



Type	CUBE LIGHT
Power	10W
CCT	4000K
Lumen	856
(Lm/W)	85
CRI	>90
Beam Angle	18°
Dimming	DALI



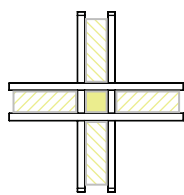
Plaid Ceiling Tiles

Suggested Lighting Applications

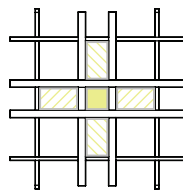
The CUBE Light from Prolicht offers a seamless way to integrate lighting into your Plaid Ceiling project, with flexible placement and easy installation. The lighting module is compatible with Plaid 2 thru 6 and Plaid 8.

 = Recommended Lighting Placement

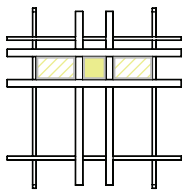
 = Possible Lighting Placement



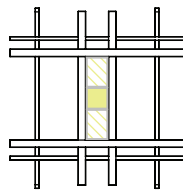
Plaid 2



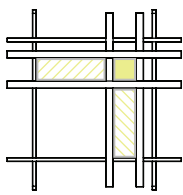
Plaid 3



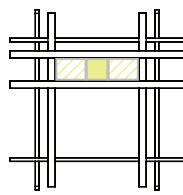
Plaid 4



Plaid 5



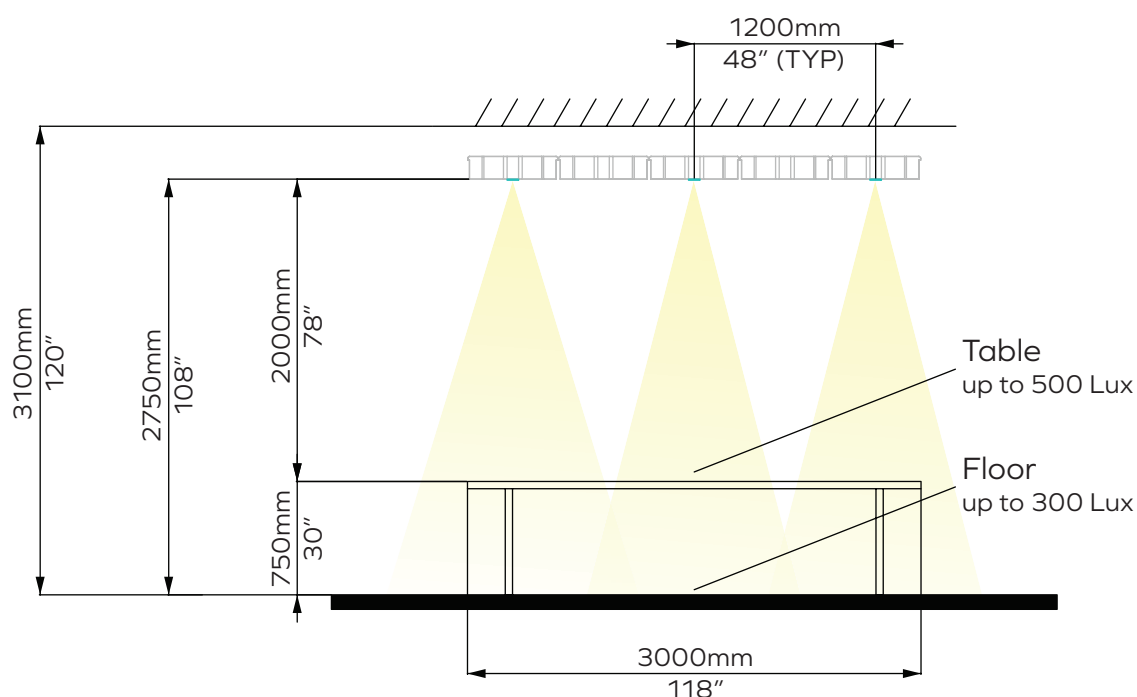
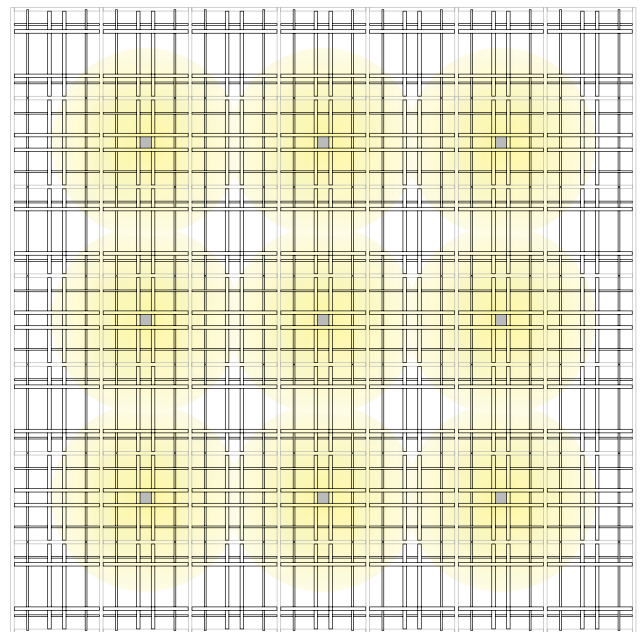
Plaid 6



Plaid 8

Example Lighting Layout

9 CUBE Lights at 1.2m on center in an approximately 4.2m x 4.2m space



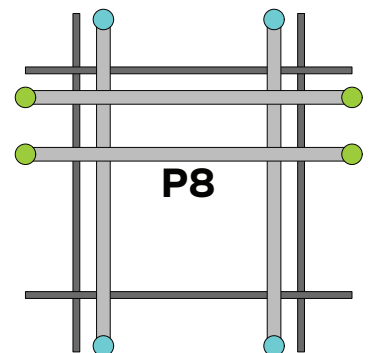
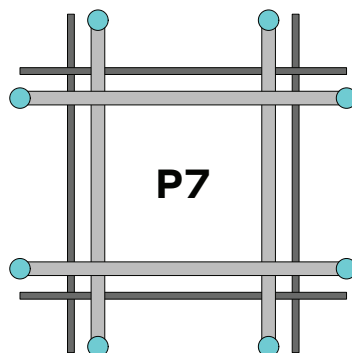
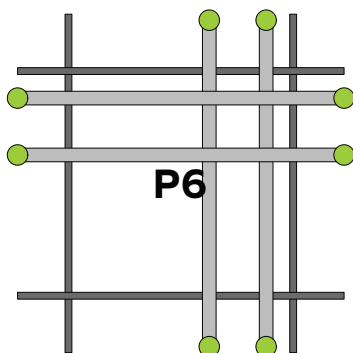
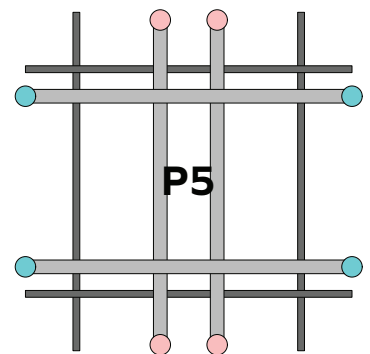
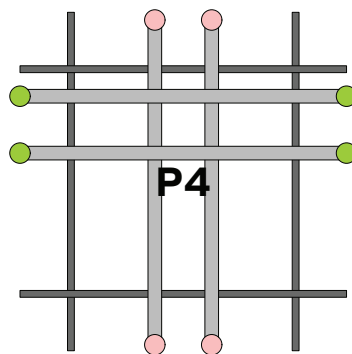
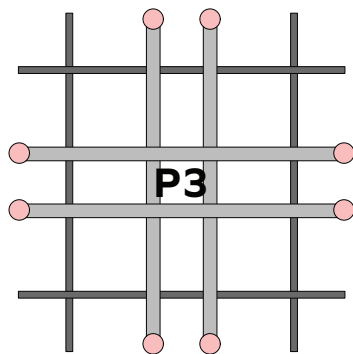
Plaid Ceiling Tiles

Layout Design

Layout and Pattern Variations

A multitude of patterns can be generated from the 8 Plaid ceiling tile modules. The combination of multiple tiles, colors and rotations makes for a plethora of creative possibilities. Use a single type of tile to create a classic look. For a more intricate layout, combine multiple modules. Use one of the recommended layouts on the following pages for your project or as inspiration to design your own original layout. To create a unique layout follow the guide below:

Layout Creation Guide



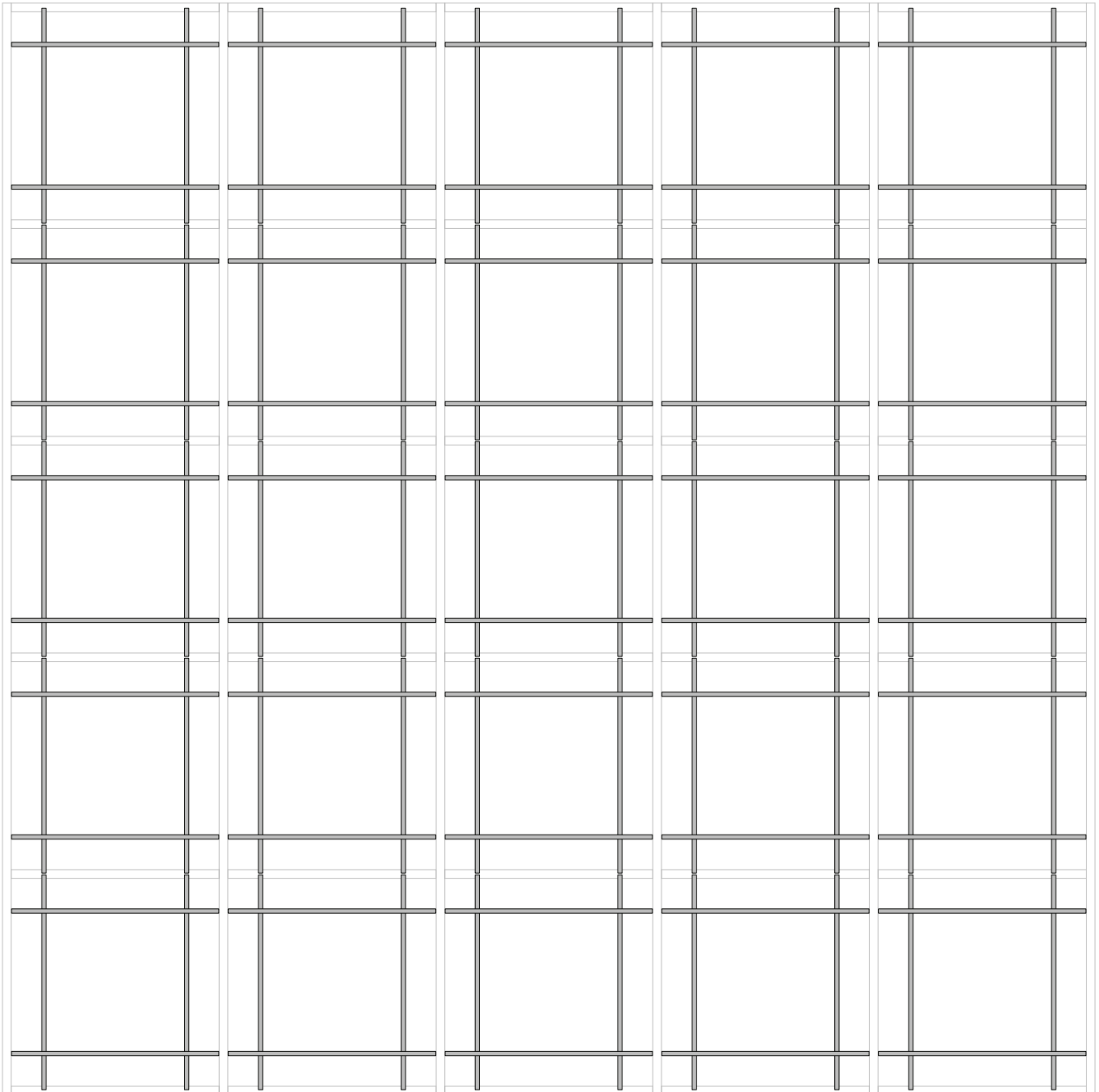
Match like color dots to create a pattern with continuous lines. Sketch your pattern in the grid on the next page or download BIM files from the Impact Acoustic website.

Plaid Ceiling Tiles

Layout Design

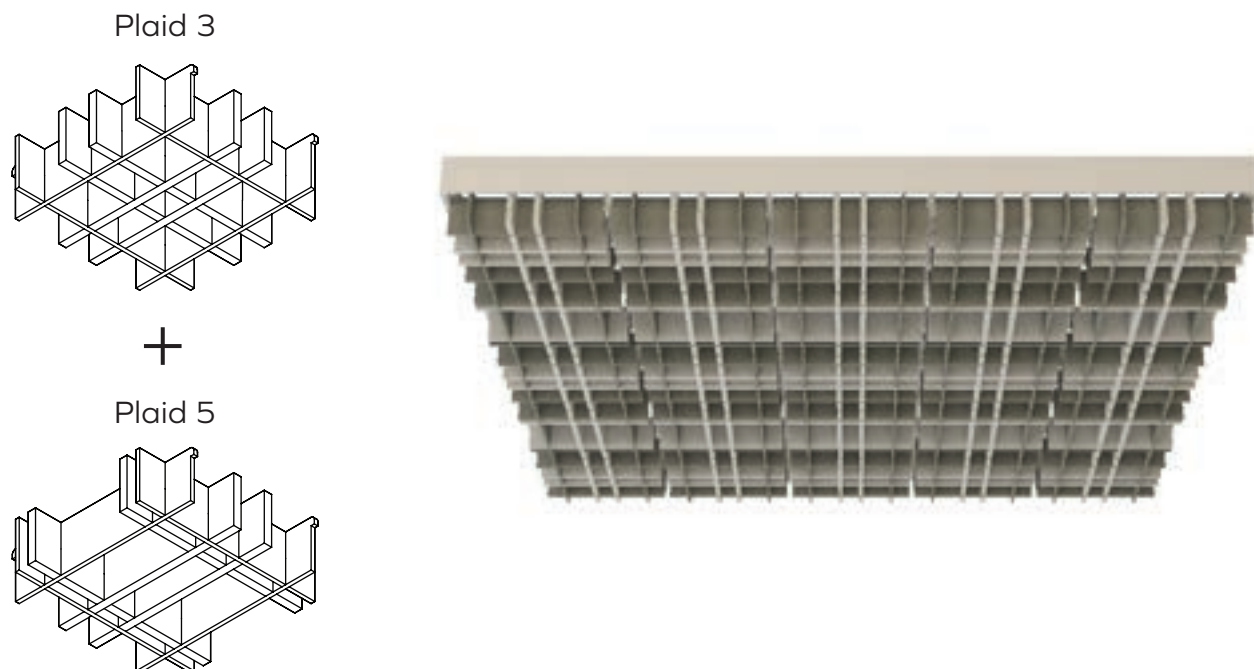
Grid Template

Use the grid template below for sketching Plaid layouts:

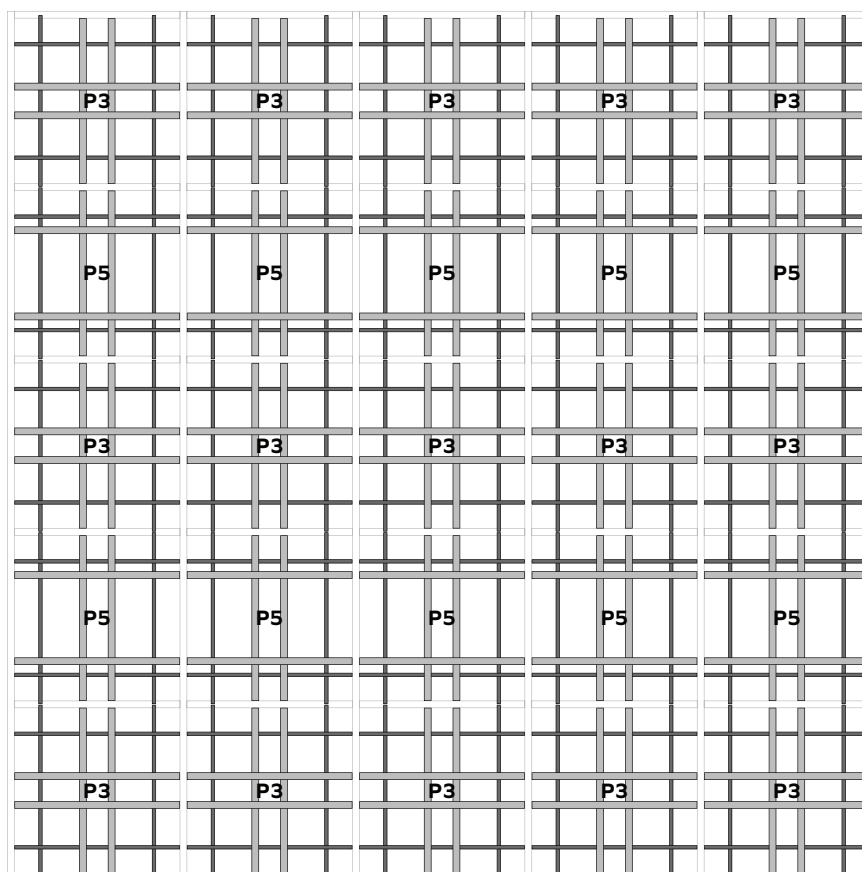


Plaid Ceiling Tiles

Recommended Layout



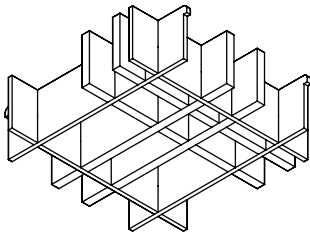
Layout



Plaid Ceiling Tiles

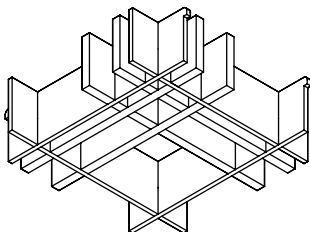
Recommended Layout

Plaid 4

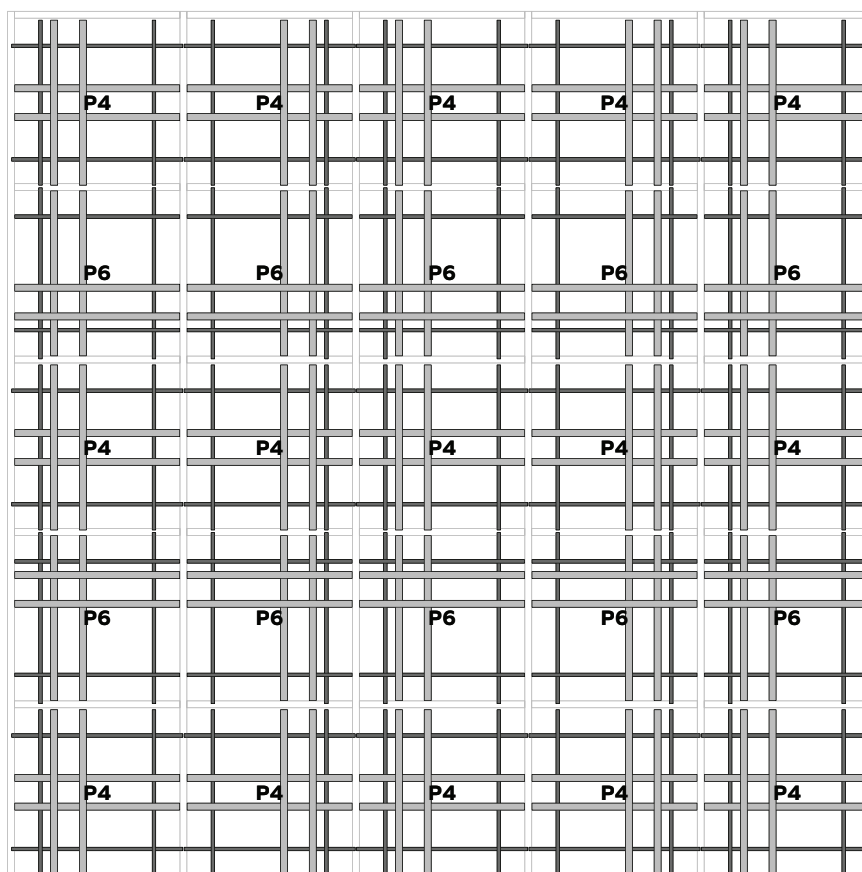


+

Plaid 6

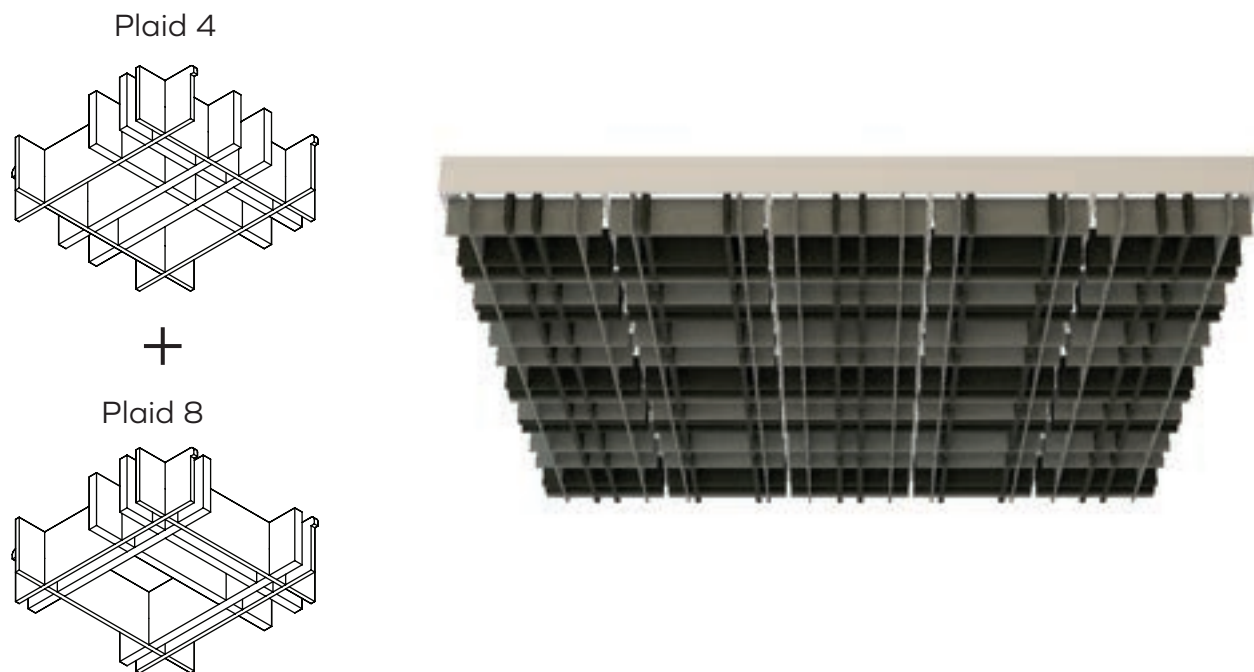


Layout

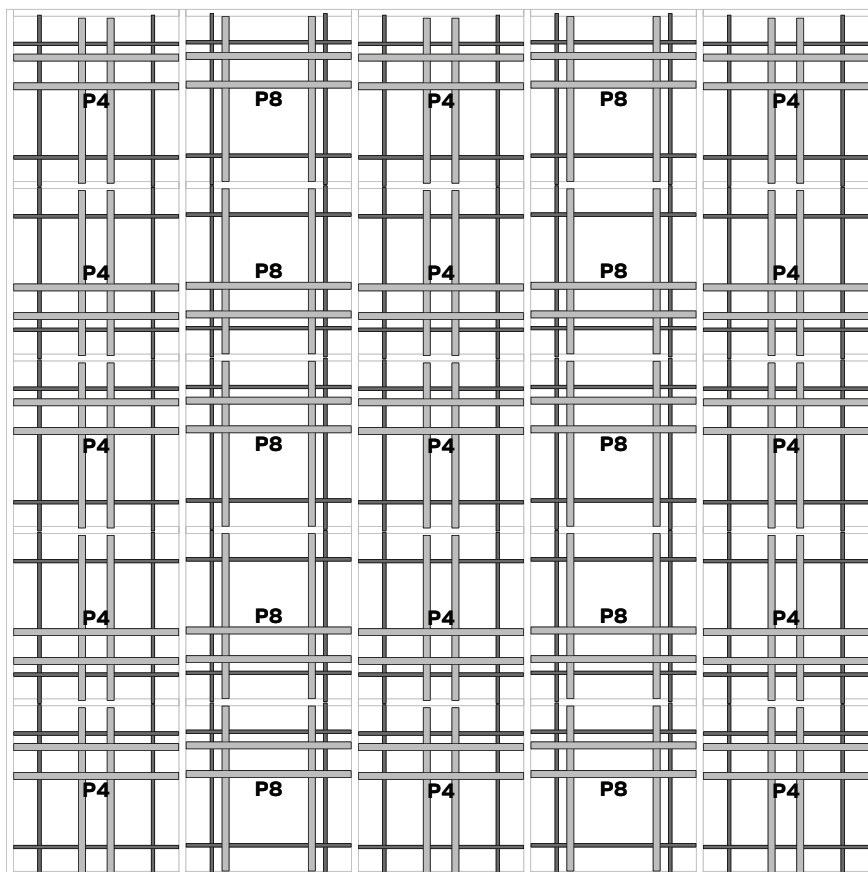


Plaid Ceiling Tiles

Recommended Layout

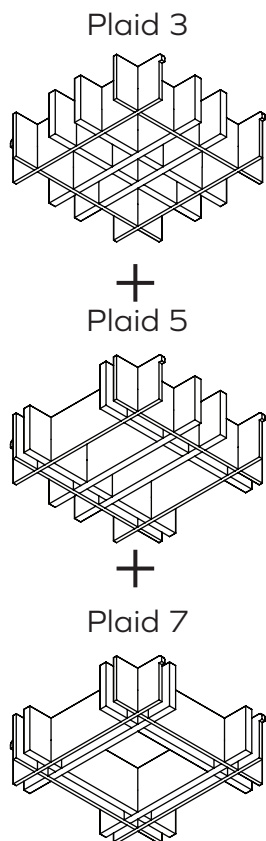


Layout

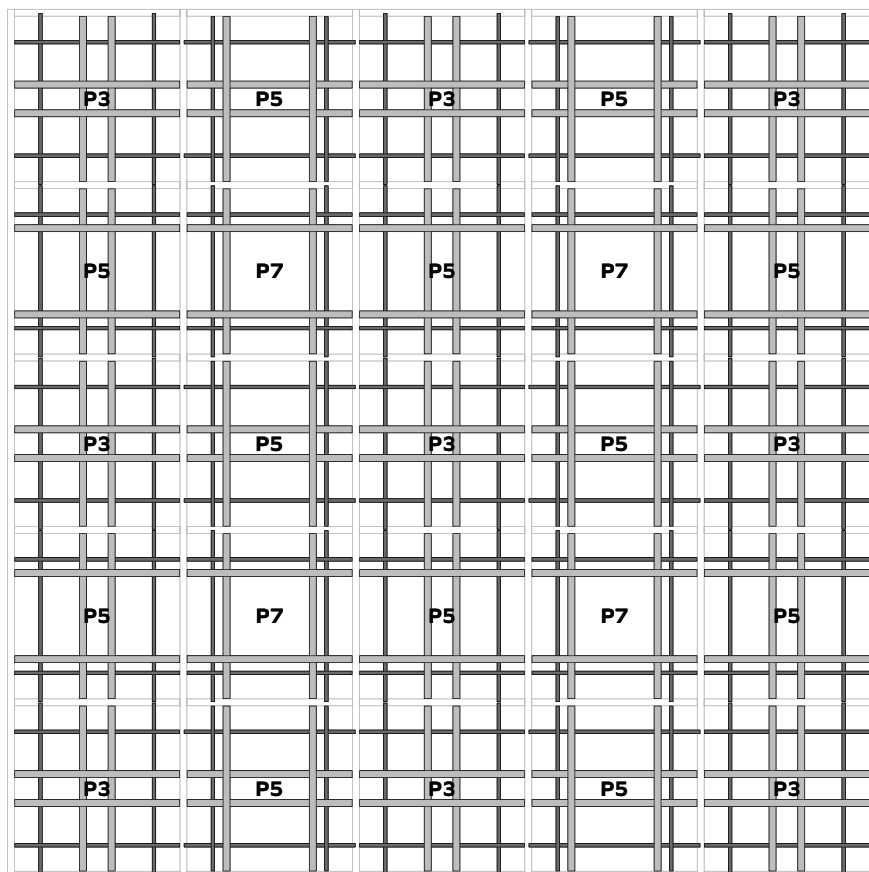


Plaid Ceiling Tiles

Recommended Layout

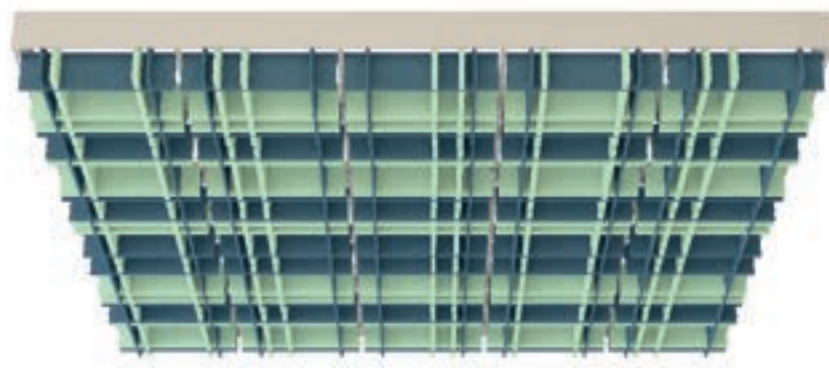
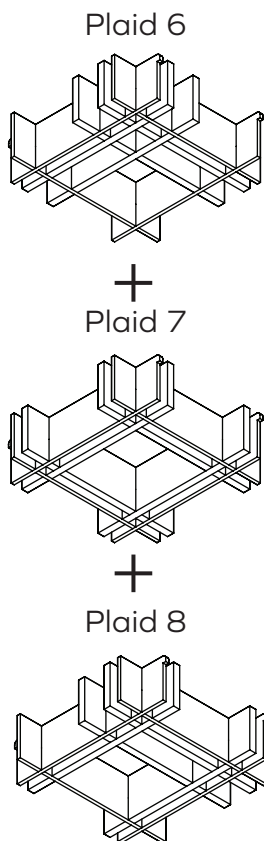


Layout

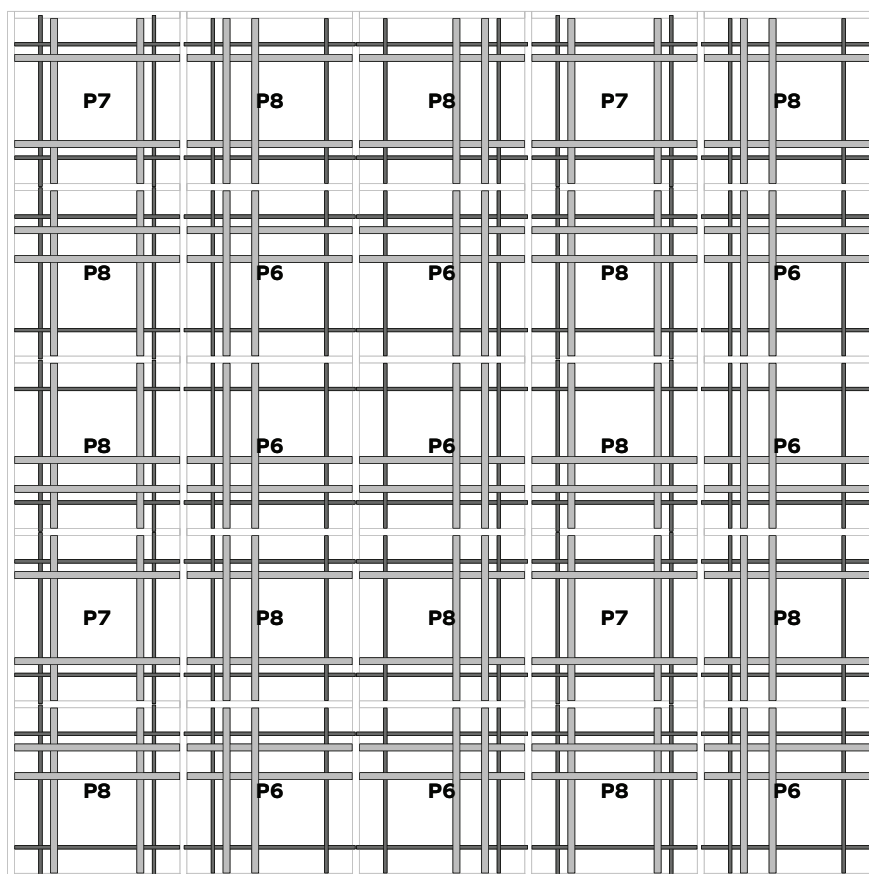


Plaid Ceiling Tiles

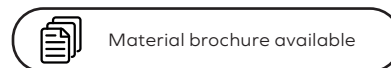
Recommended Layout



Layout



ARCHISONIC® Felt Colors



Name	Snow White	Milk	Cloud	Gull	Smoke	Ground	Charcoal	Slate	Raven
Code	500	404	103	144	442	108	542	444	550
NCS	S 0300-N	S 0502-Y	S 1002-B	S 2502-Y	S 3005-R80B	S 5005-Y20R	S 7502-B	S 4500-N	S 8500-N

Name	Nordic Pine	Grove	Fern	Moss	Spearmint	Ice Blue	Succulent	Deep Sea	True Navy
Code	311	317	180	439	706	304	712	918	194
NCS	S 5030-G10Y	S 7020-G30Y	S 6010-G90Y	S 2040-G40Y	S 1010-B90G	S 0510-B	S 3020-B30G	S 5020-R90B	S 8005-B

Name	Lichen	Linen	Shell Pink	Jute	Warm Stone	Terracotta	Soft Coral	Honeycomb	Sunshine
Code	160	107	102	920	105	239	516	139	846
NCS	S 4005-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

Name	Garnet	Hot Pink	Poster Red	Electric Orange	Winter Sky	Pacific Ocean	Midnight	Grape	Marine Blue
Code	724	140	662	464	410	432	810	540	864
NCS	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®

Colors

Experience our ARCHISONIC® Felt material with a stunning selection of 36 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



ARCHISONIC® Felt

Material Specification

Product Name	Archisonic® Felt	
Content	100% PET (60% certified post-consumer content)	
Thickness¹	12mm (0.47")	24mm (0.94")
Max. Size	1200x2800mm (47"x110")	1800x2400mm (70"x94")
Acoustic²	ASTM: NRC=0.6 ISO: α_w =0.65	ASTM: NRC=0.9 ISO: α_w =0.95
Density¹	2400 g/m ² (0.49 lbs/ sqft)	4000 g/m ² (0.82 lbs/sqft)
Color Fastness	Class 6 ISO 105-B02:A1	
Color	36 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.	
Production Lead time³	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



Plaid Ceiling Tiles

Acoustic Performance



Testing Standards

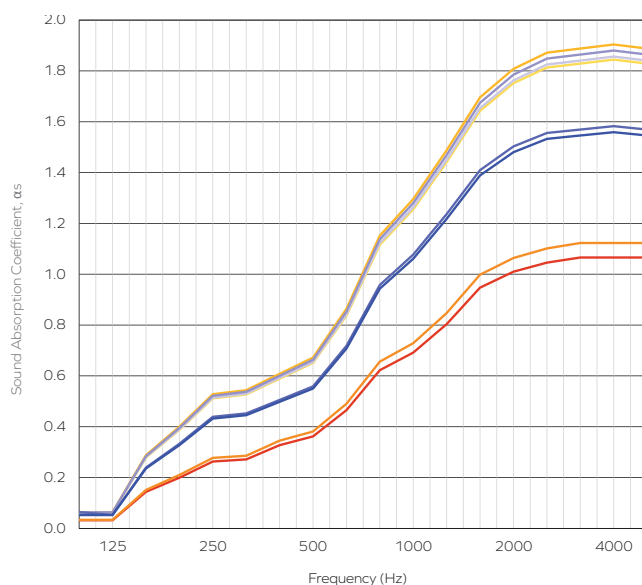
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ASTM C423-17	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ASTM E795-16	Standard Practices for Mounting Test Specimens During Sound Absorption Tests

The acoustic performance of the Plaid ceiling system has been calculated based on test reports from the Archisonic product range, which features an identical layout. It is important to note that the absorption data provided is provisional and may be revised once the actual testing results are obtained.

Acoustic Performance

Frequency (Hz)		125	250	500	1000	2000	4000	α_w	SAA	NRC
Plaid 1	α_p	0.1	0.3	0.4	0.7	1.0	1.0	0.45 (MH)	0.58	0.60
Plaid 2	α_p	0.1	0.3	0.4	0.8	1.0	1.0	0.45 (MH)	0.62	0.60
Plaid 3	α_p	0.2	0.5	0.7	1.0	1.0	1.0	0.75 (MH)	1.00	1.00
Plaid 4	α_p	0.2	0.5	0.7	1.0	1.0	1.0	0.75 (MH)	1.00	1.00
Plaid 5	α_p	0.2	0.5	0.7	1.0	1.0	1.0	0.75 (MH)	1.00	1.00
Plaid 6	α_p	0.2	0.5	0.7	1.0	1.0	1.0	0.75 (MH)	1.00	1.00
Plaid 7	α_p	0.1	0.4	0.6	1.0	1.0	1.0	0.65 (MH)	0.90	0.90
Plaid 8	α_p	0.1	0.4	0.6	1.0	1.0	1.0	0.65 (MH)	0.88	0.90

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.



- Plaid 1
- Plaid 2
- Plaid 3
- Plaid 4
- Plaid 5
- Plaid 6
- Plaid 7
- Plaid 8

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

Plaid Ceiling Tiles

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



Color 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 days¹ from your first point of contact, allowing you to focus on what truly matters to you.



Contact our
consultant

Quote¹

48h



Order Confirmation

Production¹

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.



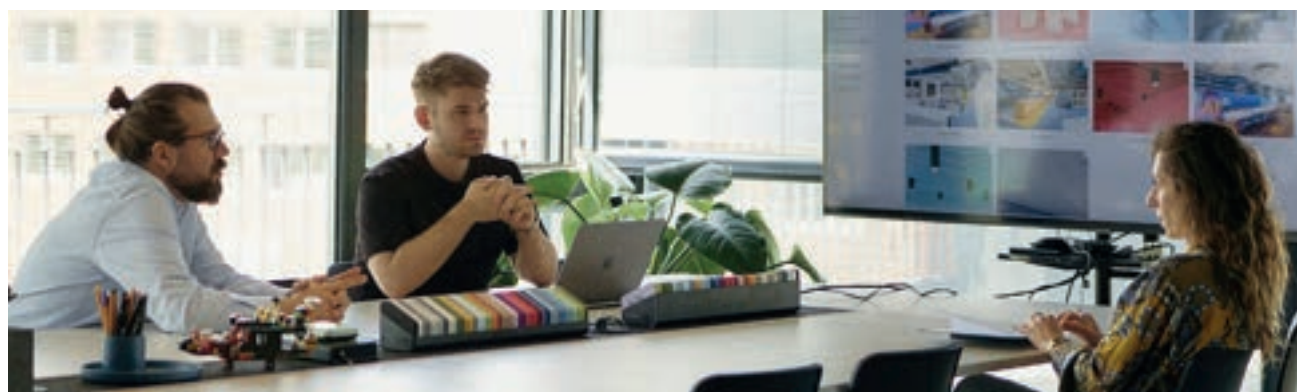
+41 41 244 14 00



connect@impactacoustic.com



Online form



¹ - Quote and Production times may vary.

IMPACT ACOUSTIC®
Plaid Ceiling Tile rev.01 - 12.12.24

(Switzerland)
(USA)
(Philippines)

connect@impactacoustic.com
usa@impactacoustic.com
philippines@impactacoustic.com

(+41) 41 244 14 00
(+1) 646 918 1581
(+63) 285 80 02 50

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Impact**

connect@impactacoustic.com | www.impactacoustic.com