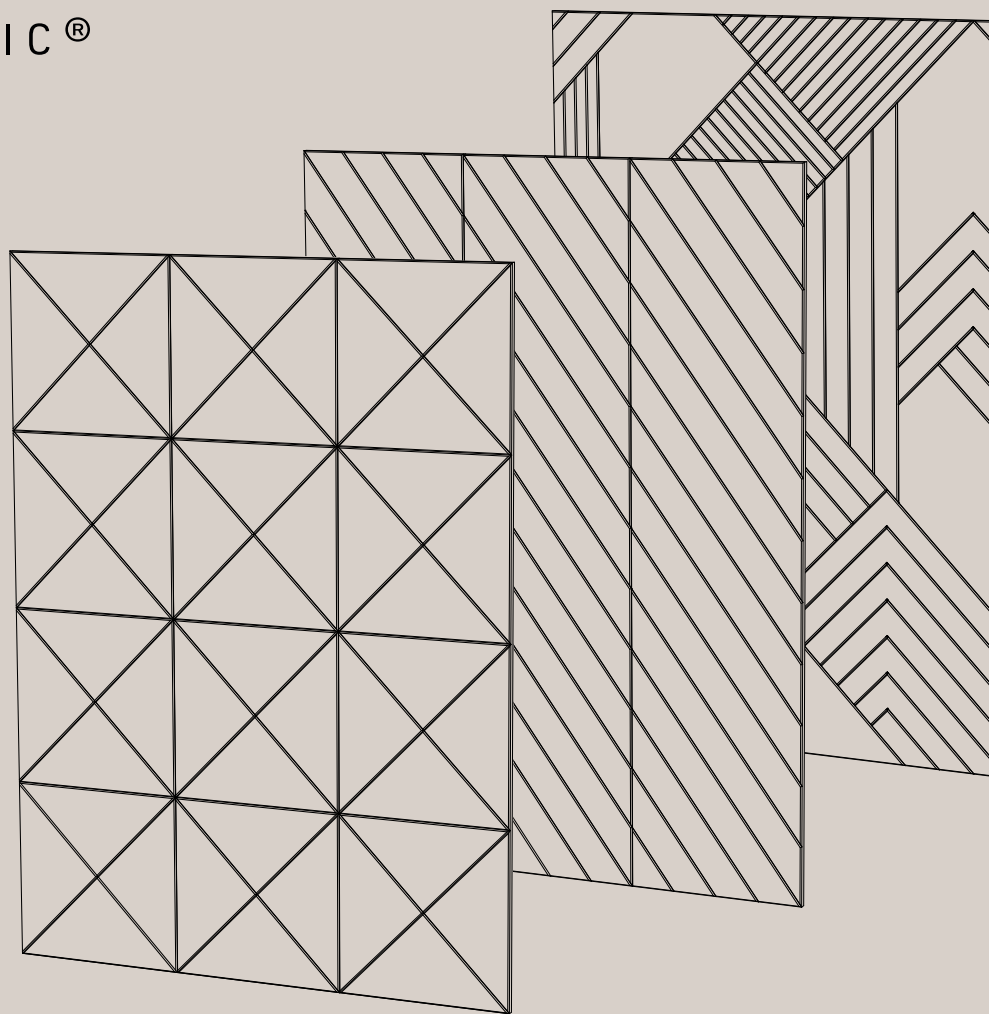


IMPACT ACOUSTIC®



Wall Panels

Ready-made

731.24.10-30.000.00

731.12.10-30.000.00

TECHNICAL DATA SHEET

Wall Panels

General Information



Data

Applicable article numbers

731.24.10-30.000.00 and .01

731.12.10-30.000.00 and .01

Total Dimensions³

24mm / 12 mm

0.9" / 0.5"

Height

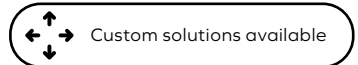
2400mm / 2800mm

95" / 110"

Width

1800mm / 1200mm

71" / 47"

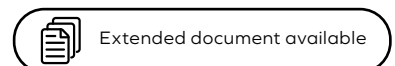


Custom solutions available

Material

Wall Covering

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



Extended document available

Weight¹

24mm / 0.95"

4 kg/m²

0.82 lbs/sq.ft

12mm / 0.47"

2.4 kg/m²

0.49 lbs/sq.ft

Included

PET Panels



Installation
guide



Warranty
10 years²



1 - all weights are nominal

2 - Impact Acoustic warranty terms apply

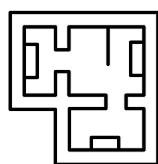
3 - all dimensions are nominal

Wall Panels

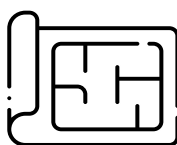
Specification Guide

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:



Project Area

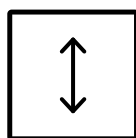


Plans

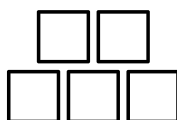


Other Considerations

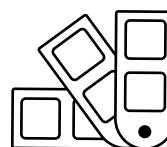
2 Specify your Wall Covering:



Material Thickness

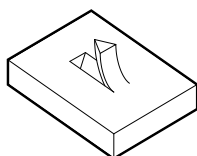


Quantity

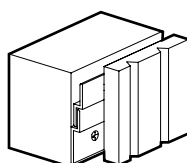


Color

3 Mount options:



Undercover mount¹



Z-Clip profiles



Spray adhesive

4 Article numbers:

732	Material Thickness ²	12	Color	Mount type
732	24mm	12	Choose colour	00
	12mm			

Example: 732.24.12.662.00

Wall Covering - Kingscross, 2400 x 1800 x 24mm, 662 - Poster Red, 00 - Undercover mount

¹ - Patent Pending No.102024000009088

² - all dimensions are nominal

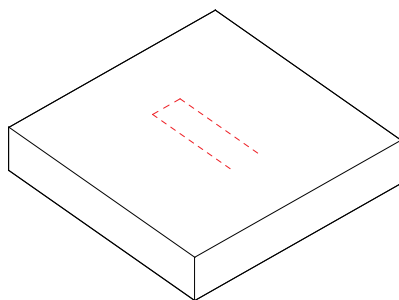
Wall Panels

Installation methodes overview

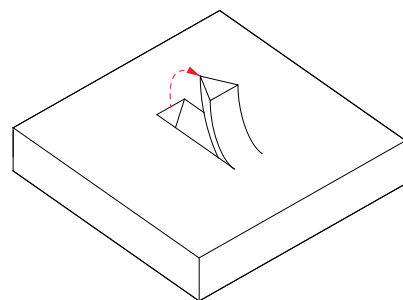
Undercover Mount (standard) *Patent Pending¹*

All our Wall Covering products come with pre-cut **Undercover** attachment points. Those points are distributed along the edge (10-15mm offset) and in the middle of the panel. **Undercover** mounting system allows for concealed mechanical attachment of the panel to the mounting surface. The **installation hardware** (screws, bolts) needs to be selected in accordance to the surface on which panels are applied, and are **not included**.

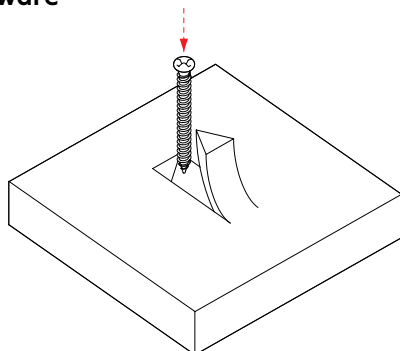
1 Locate the Undercover cuts on the panel



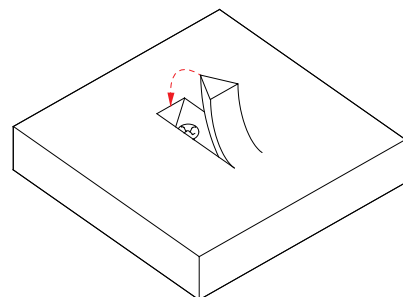
2 Pull out the edge



3 Install hardware



4 Close



For full installation manual check our **product page**.

Alternative methods

Please note, that selected hardware for alternative installation methods is not included in a default delivery scope and needs to be accounted for separately.

¹ - Patent Pending No.102024000009088

Tabula 24mm

Applicable articles numbers

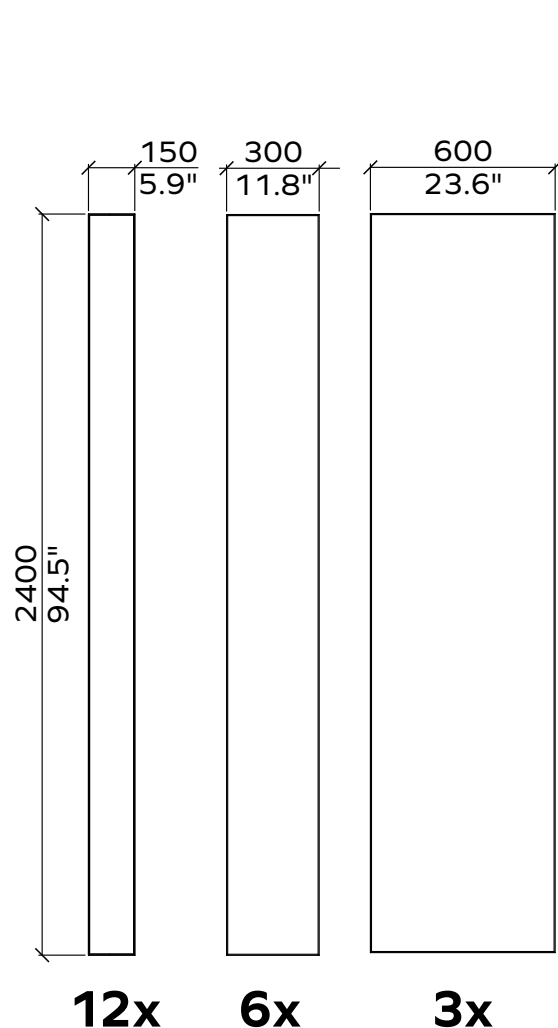
731.24.10.000.00 and .01
731.24.11.000.00 and .01
731.24.11.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set PET panels (in the dimensions below).

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Tabula 12mm

Applicable articles numbers

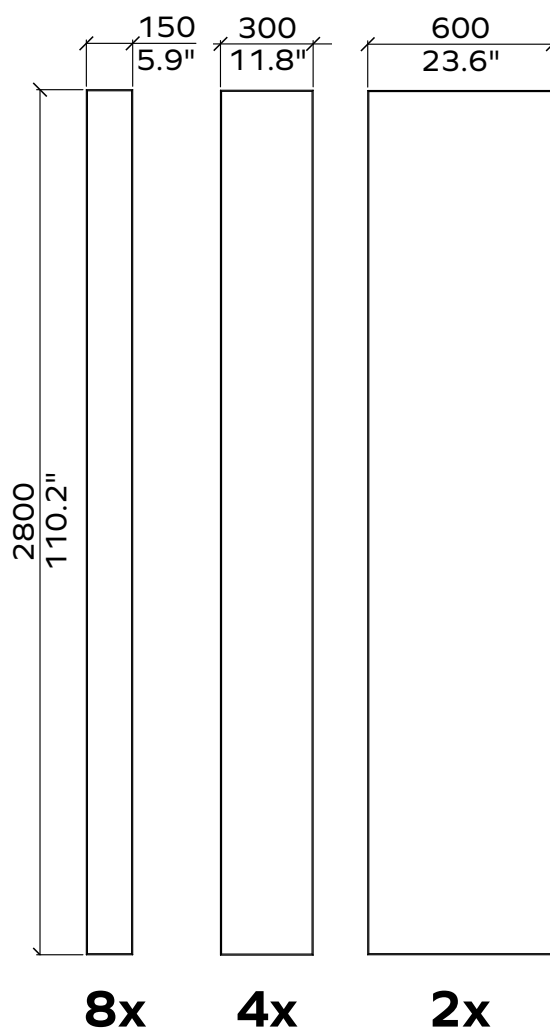
731.12.10.000.00 and .01
731.12.11.000.00 and .01
731.12.12.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of PET panels (in the dimensions below).

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Geometry Information

Fishbone 24mm

Applicable articles numbers

731.24.15/16.000.00 and .01 (RIGHT/ LEFT)

Scope of delivery

For each 24mm item you will receive a set of 3x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.

Fishbone 12mm

Applicable articles numbers

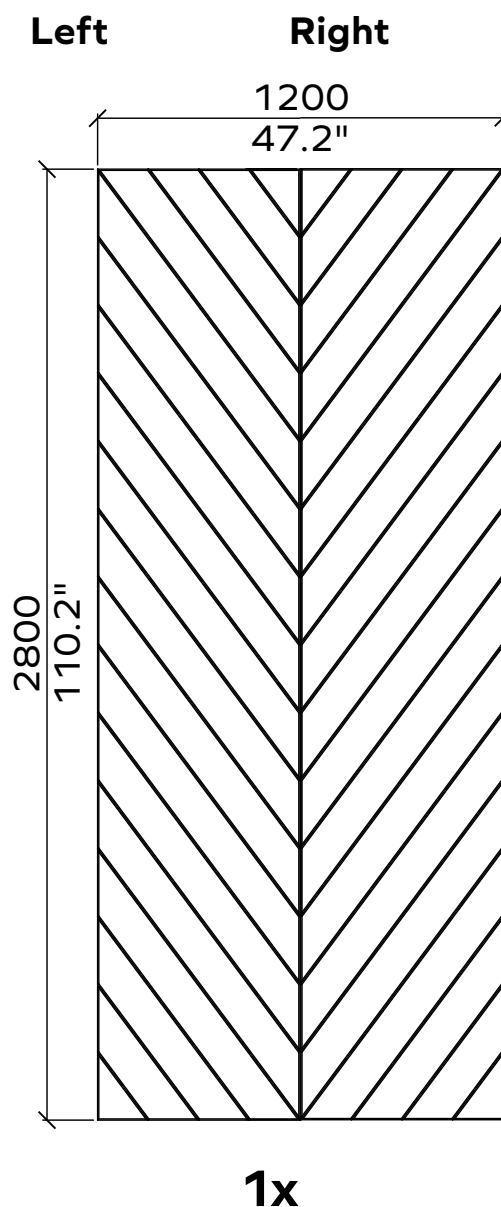
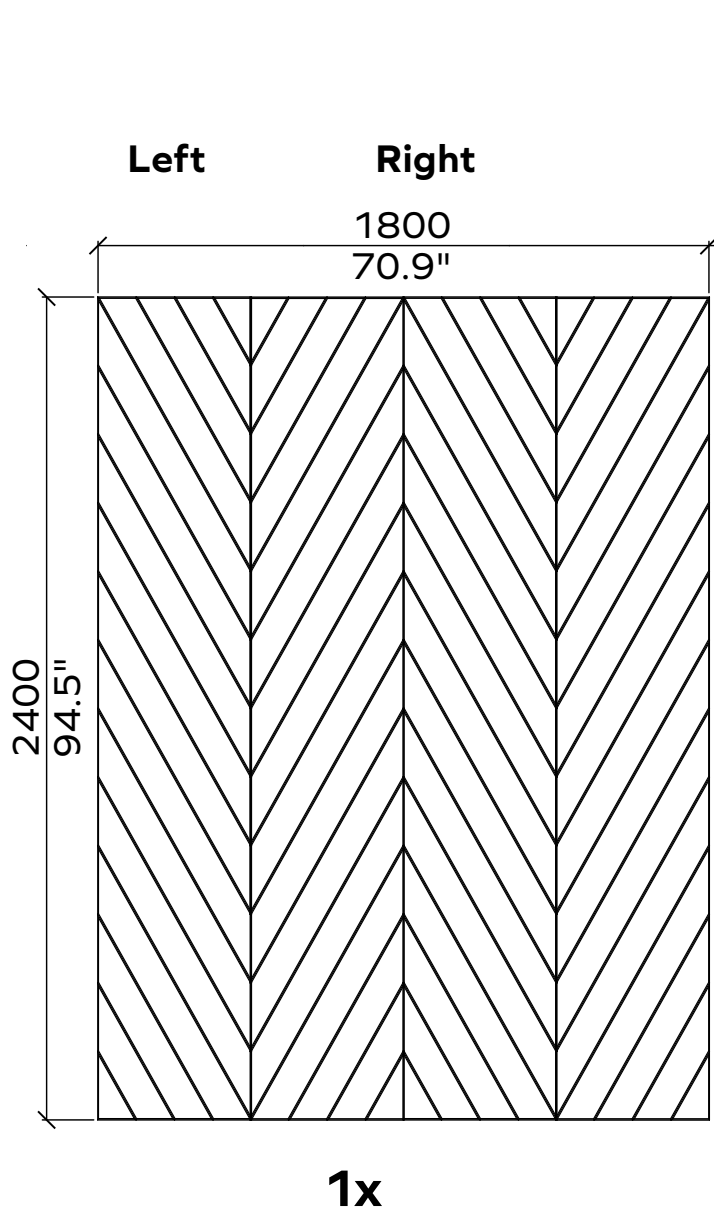
731.12.15/16.000.00 and .01 (RIGHT/ LEFT)

Scope of delivery

For each 12mm item you will receive a set of 2x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



All dimensions are nominal

Hexagon 24mm

Applicable articles numbers

731.24.20.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 65x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.

Hexagon 12mm

Applicable articles numbers

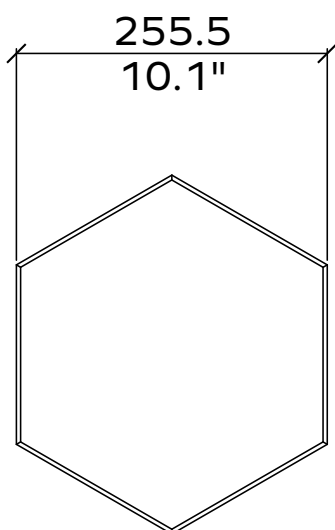
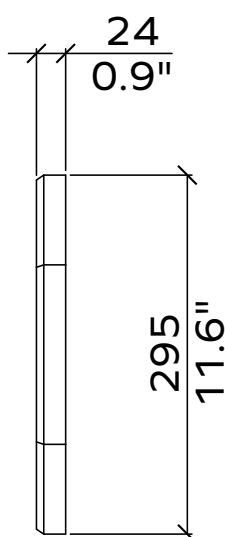
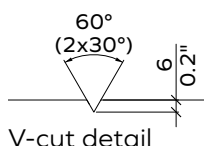
731.12.20.000.00 and .01

Scope of delivery

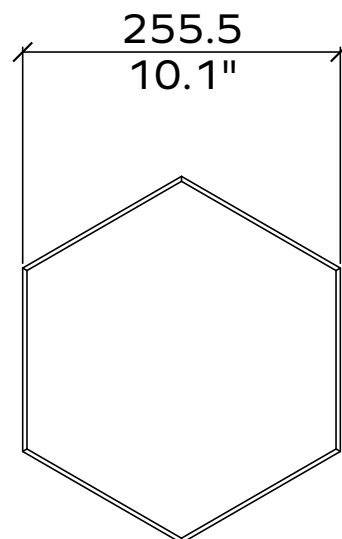
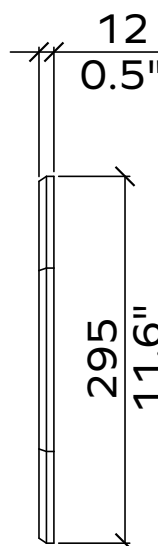
For each 12mm item you will receive a set of 48x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



65x



48x

All dimensions are nominal

Flow 24mm

Applicable articles numbers

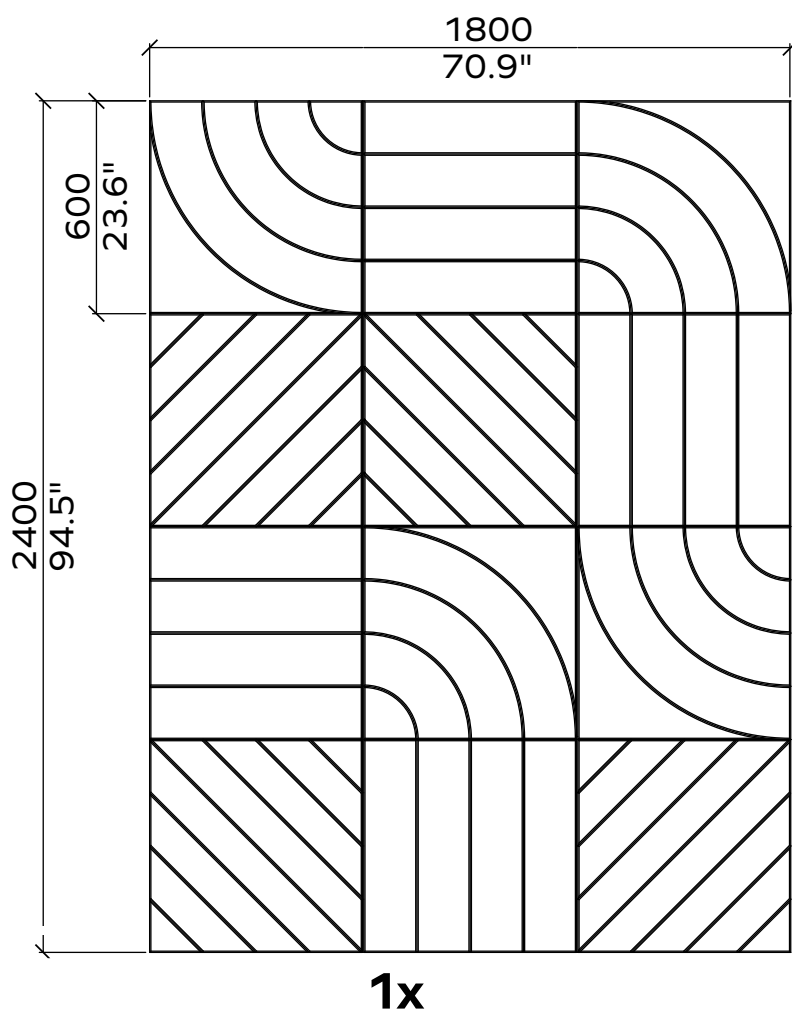
732.24.11.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 3x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Flow 12mm

Applicable articles numbers

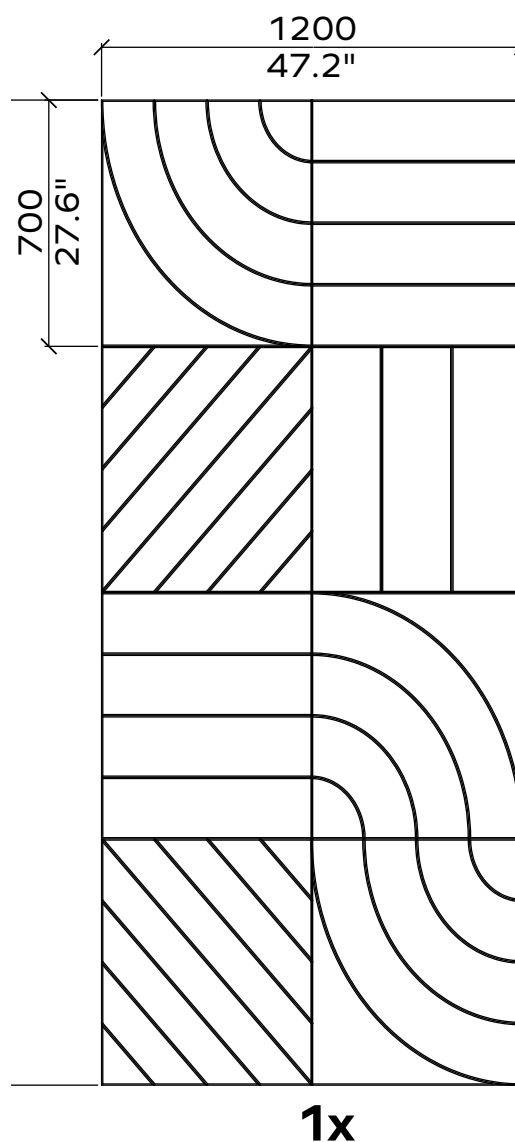
732.12.11.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 2x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Kingscross 24mm

Applicable articles numbers

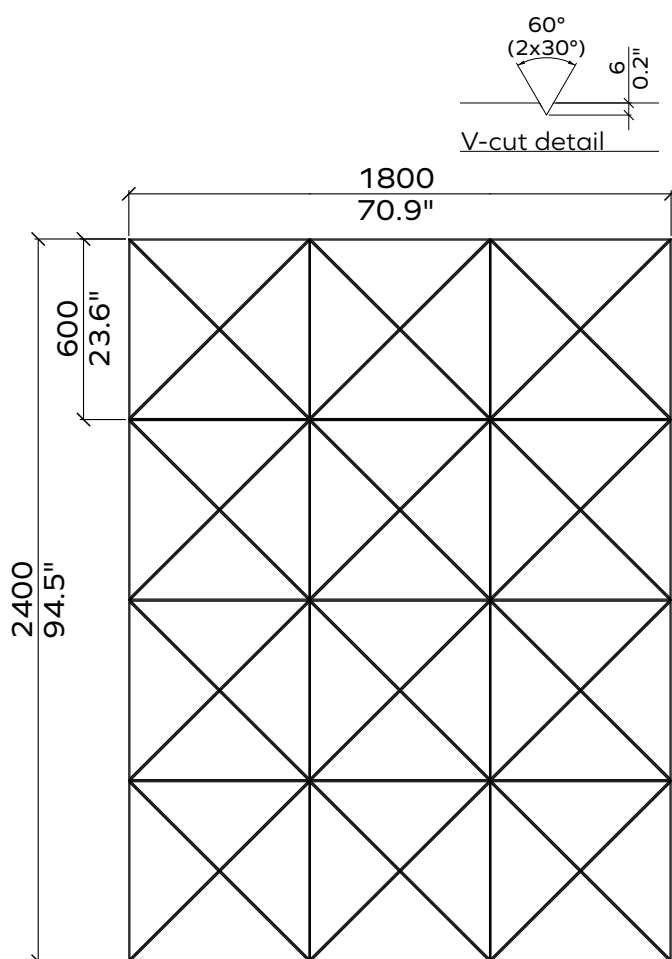
732.24.12.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 3x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Kingscross 12mm

Applicable articles numbers

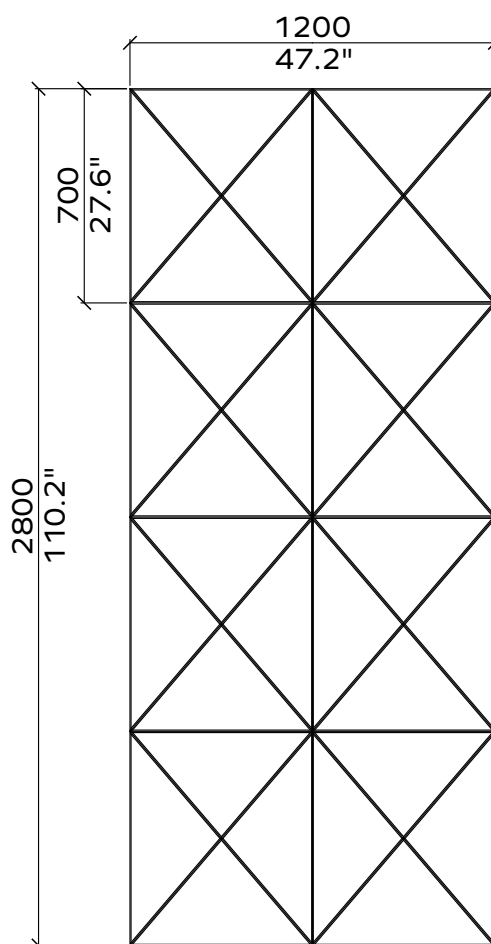
732.12.12.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 2x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

All dimensions are nominal

Vertigo 24mm

Applicable article numbers

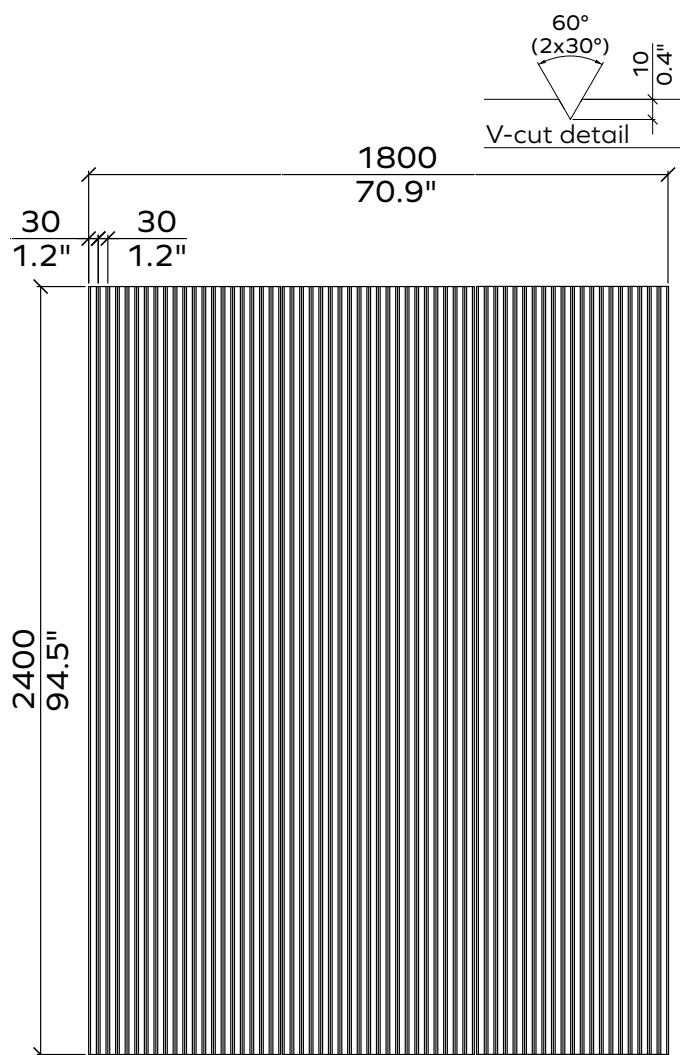
732.24.13.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 3x PET panels (in the dimensions below)

Applicable article numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Vertigo 12mm

Applicable article numbers

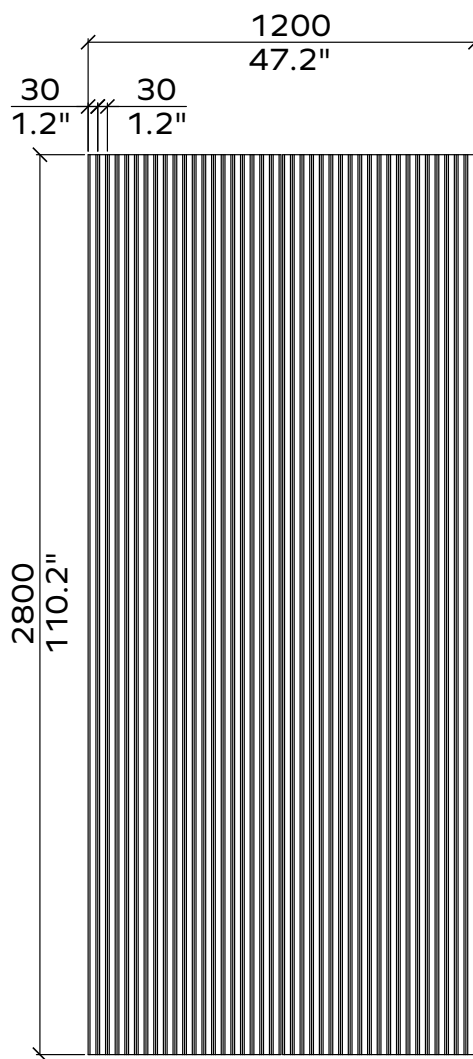
732.12.13.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 2x PET panels (in the dimensions below)

Applicable article numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

All dimensions are nominal

Vertigo Fine 24mm

Applicable article numbers

732.12.14.000.30 and .31

Scope of delivery

For each 24mm item you will receive a set of 3x PET panels (in the dimensions below)

Applicable article numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.

Vertigo Fine 12mm

Applicable article numbers

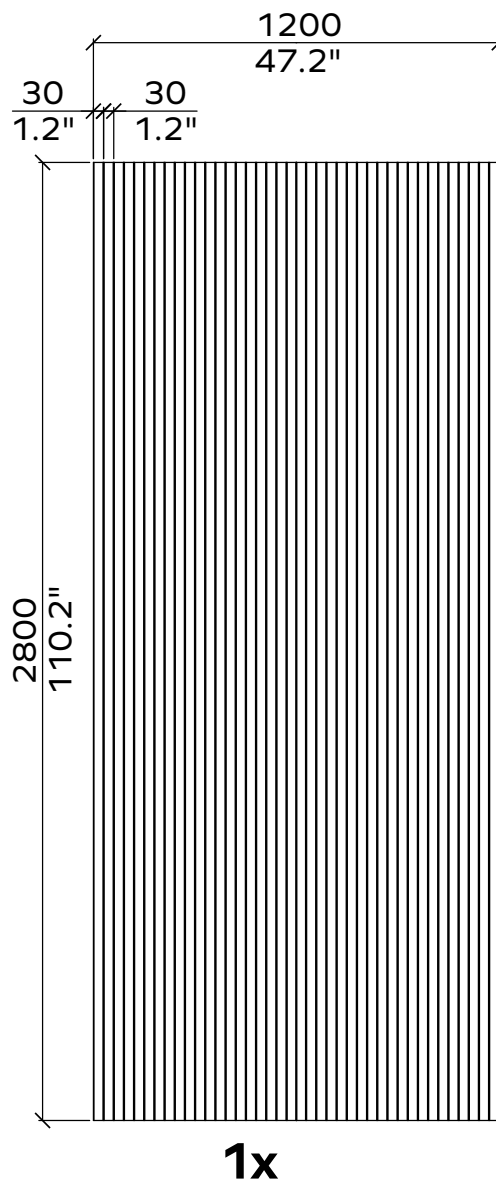
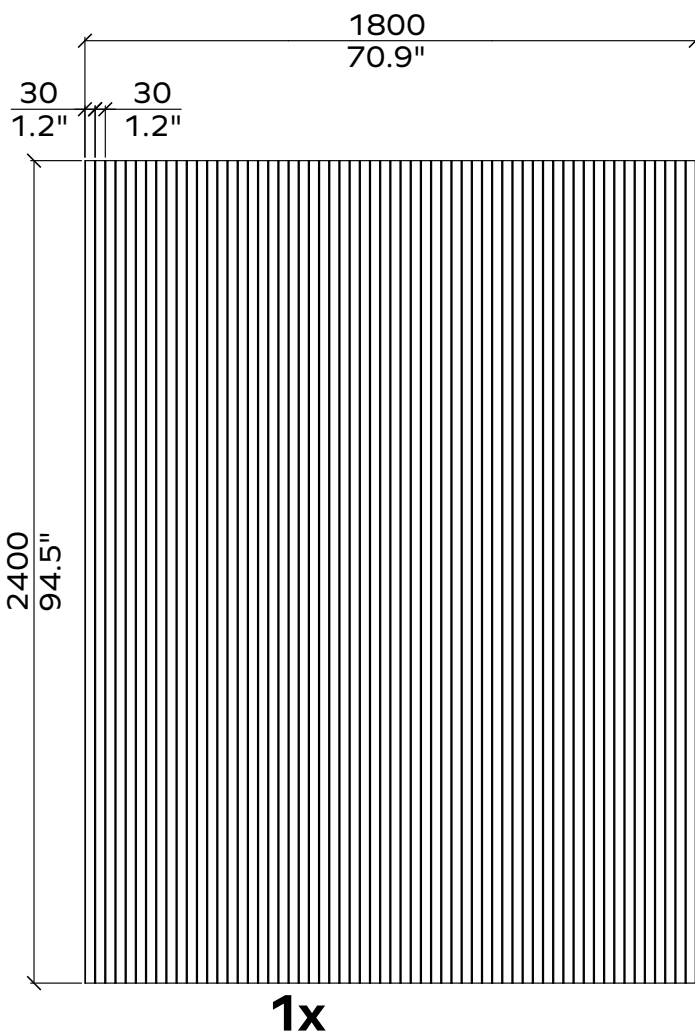
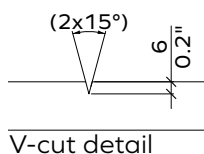
732.12.14.000.30 and .31

Scope of delivery

For each 12mm item you will receive a set of 2x PET panels (in the dimensions below)

Applicable article numbers

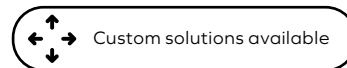
These panels are mounted with a concealed attachment system. For other options contact our consultants.



All dimensions are nominal

Vertigo Wide

Geometry Information



Vertigo Wide 24mm

Applicable article numbers

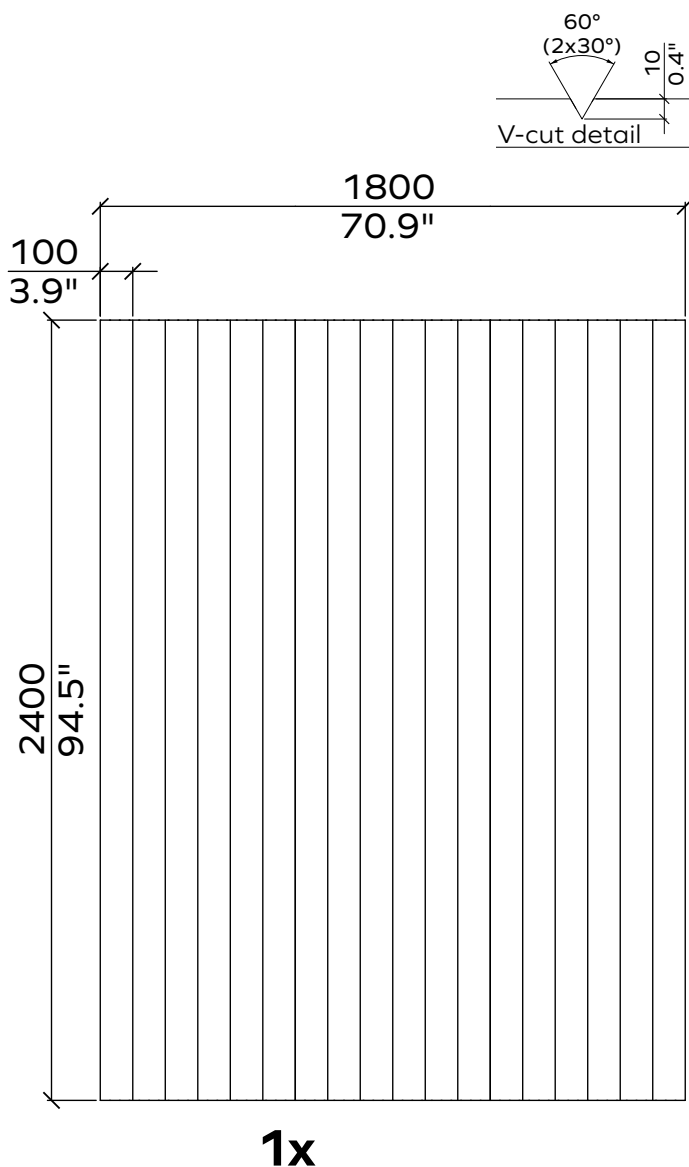
732.24.31.000.10 and .11

Scope of delivery

For each 24mm item you will receive a set of 3x PET panels (in the dimensions below)

Applicable article numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Vertigo Wide 12mm

Applicable article numbers

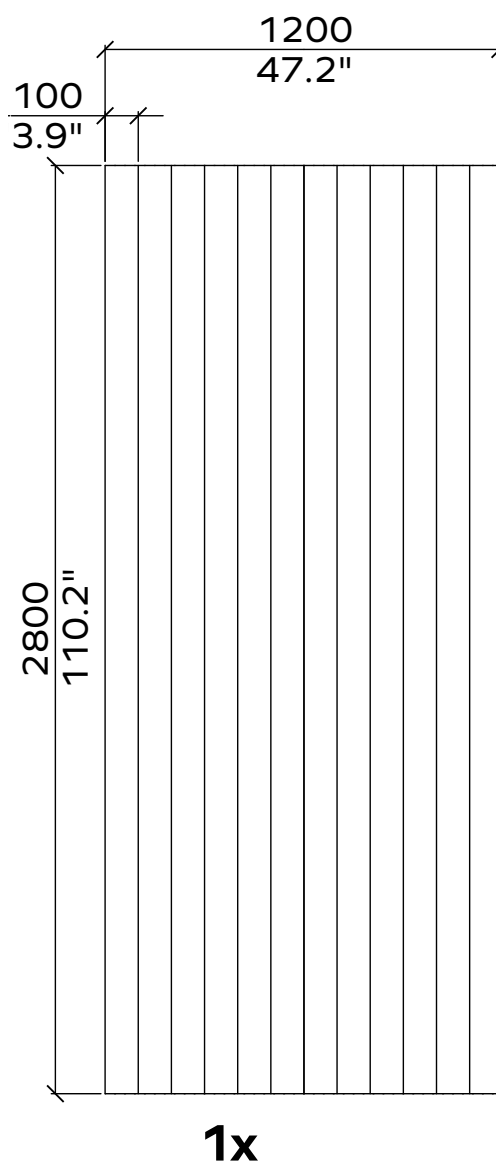
732.24.31.000.10 and .11

Scope of delivery

For each 12mm item you will receive a set of 2x PET panels (in the dimensions below)

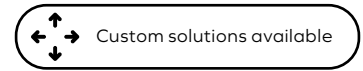
Applicable article numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



All dimensions are nominal

Vertigo Irregular



Vertigo Irregular 24mm

Applicable articles numbers

732.24.15.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 3x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.

Vertigo Irregular 12mm

Applicable articles numbers

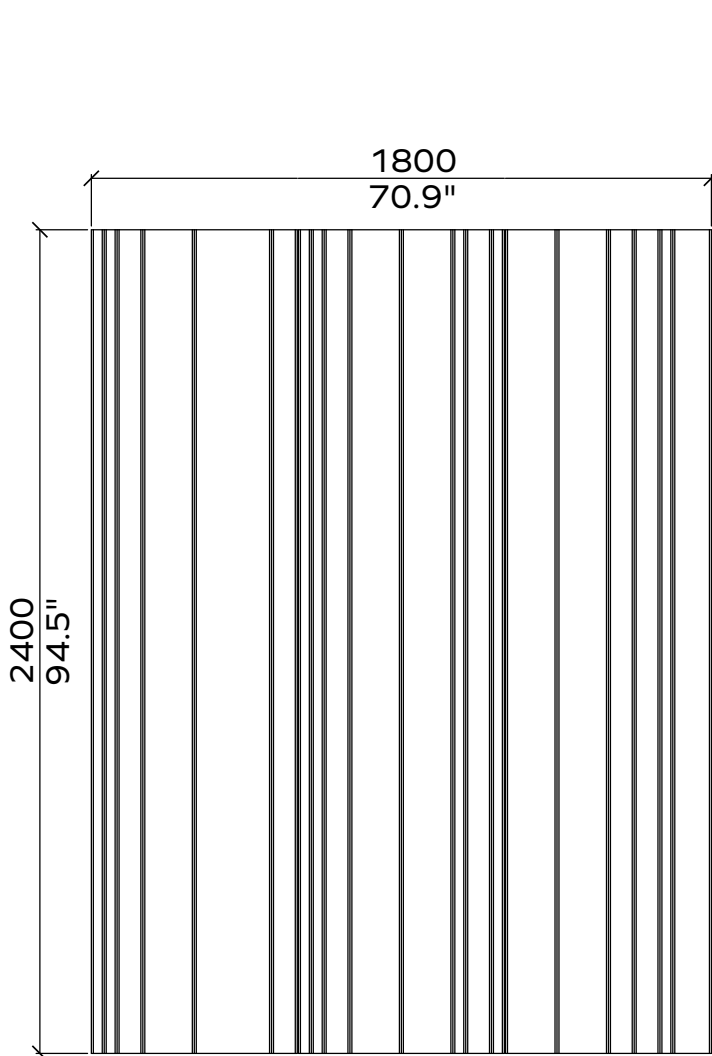
732.12.15.000.00 and .01

Scope of delivery

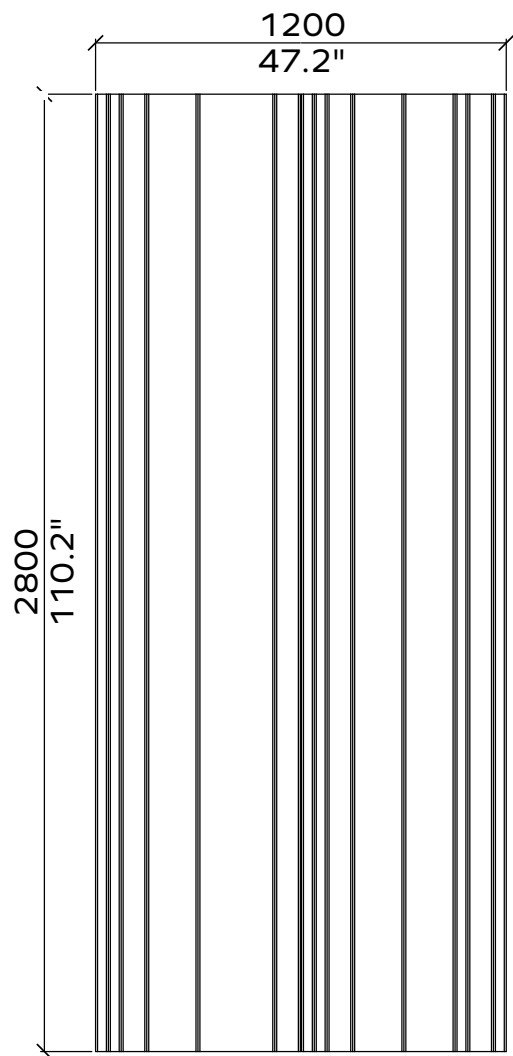
For each 12mm item you will receive a set of 2x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x



1x

All dimensions are nominal

Prisma 24mm

Applicable articles numbers

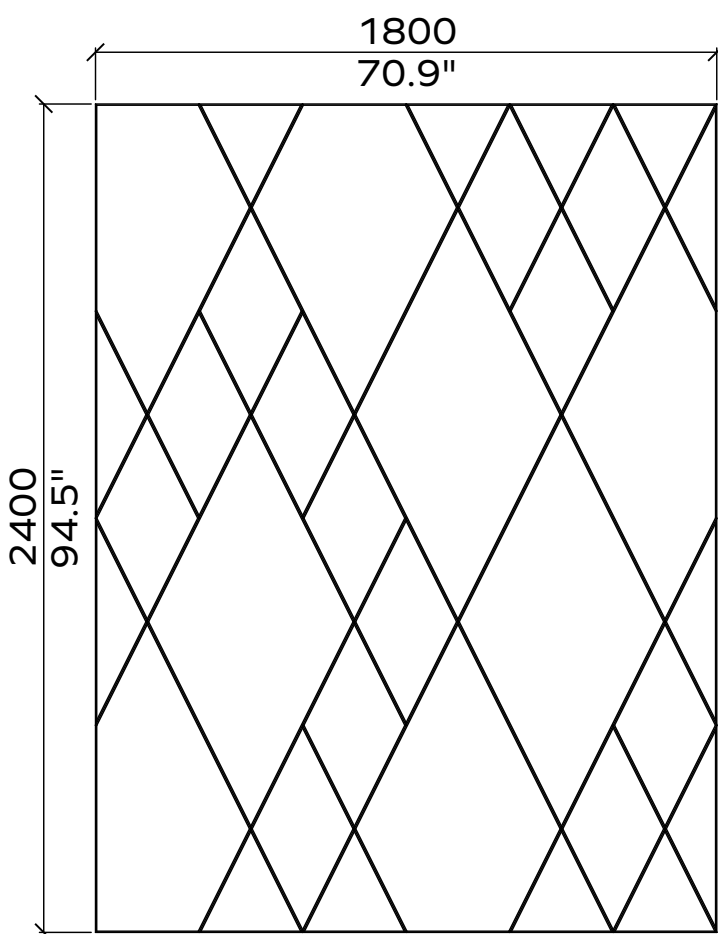
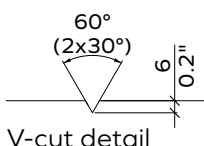
732.24.16.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Prisma 12mm

Applicable articles numbers

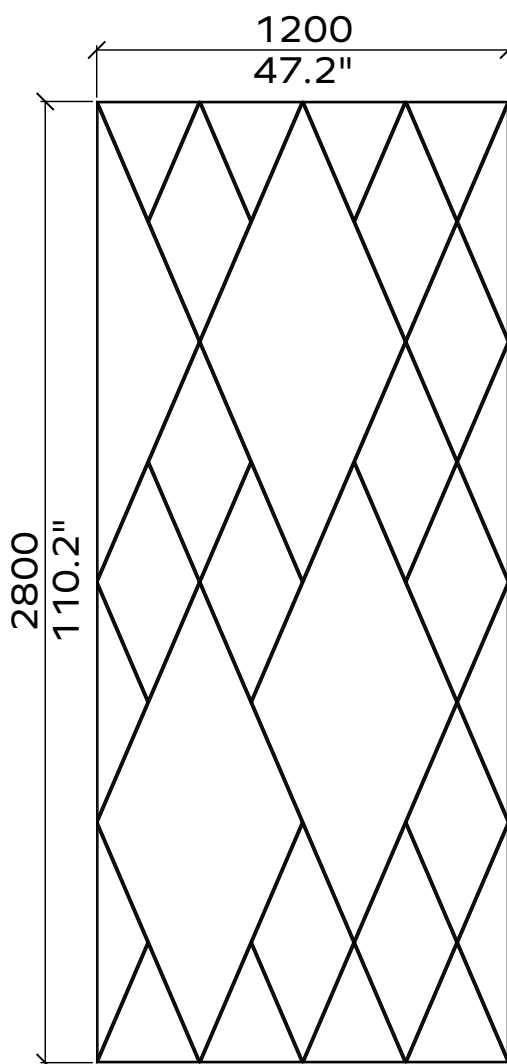
732.12.16.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

All dimensions are nominal

Facet 24mm

Applicable articles numbers

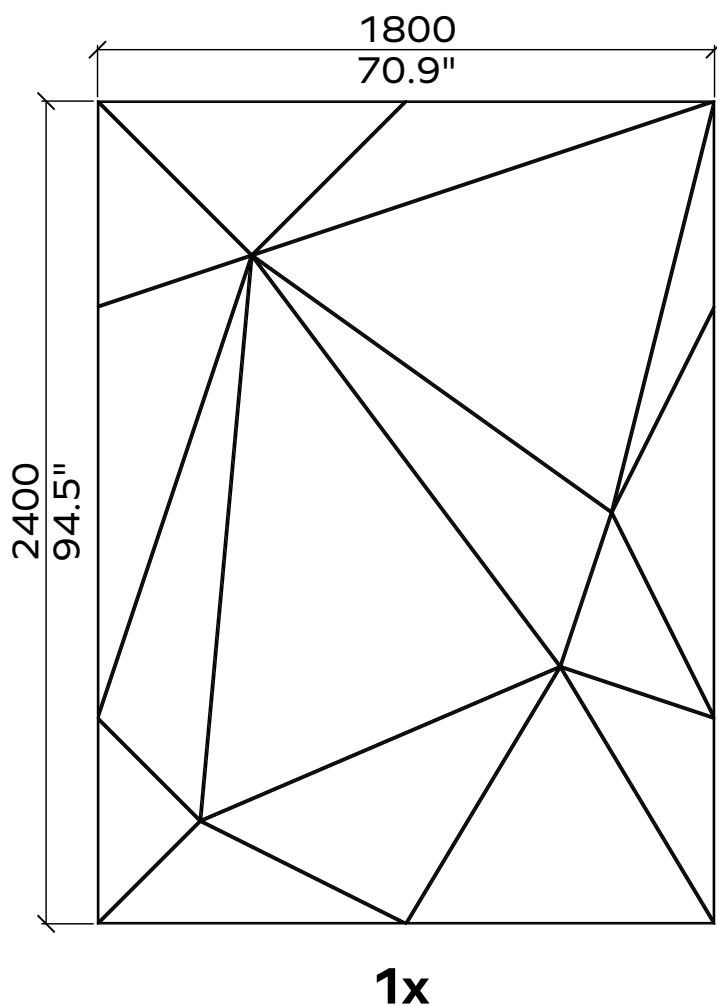
732.24.17.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Facet 12mm

Applicable articles numbers

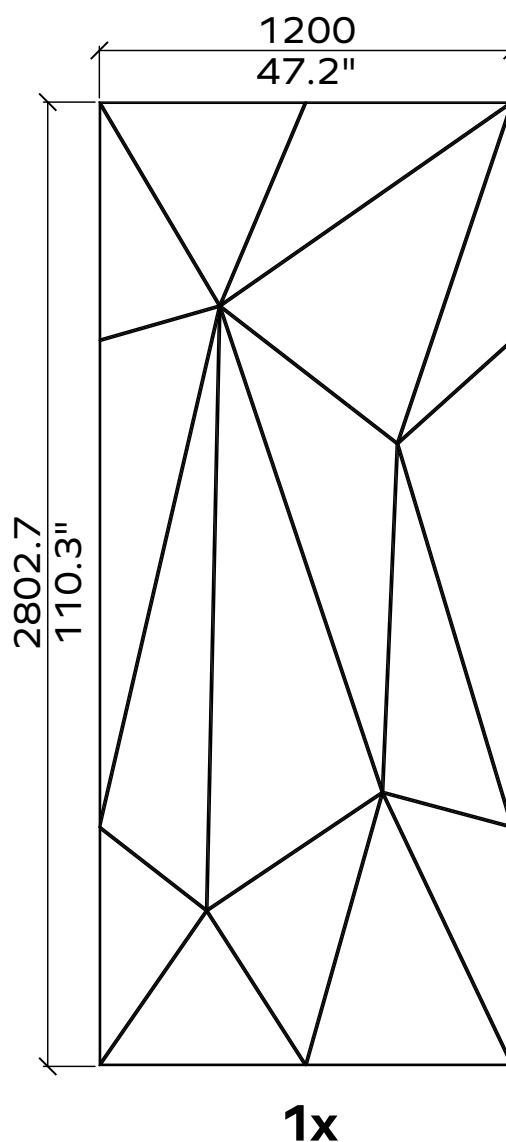
732.12.17.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



All dimensions are nominal

Maze 24mm

Applicable articles numbers

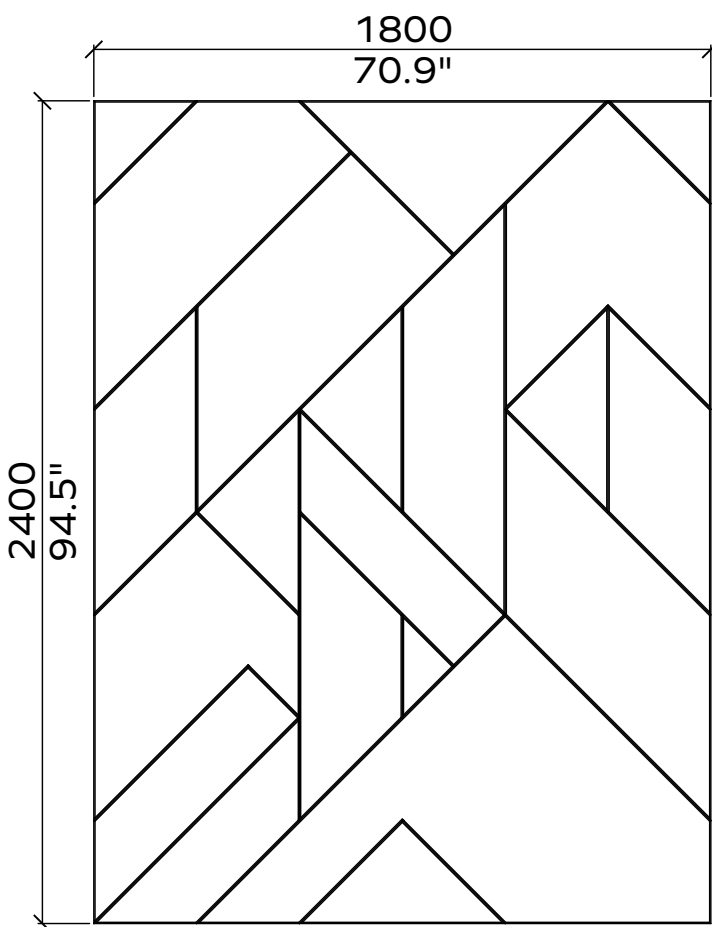
732.24.18.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Maze 12mm

Applicable articles numbers

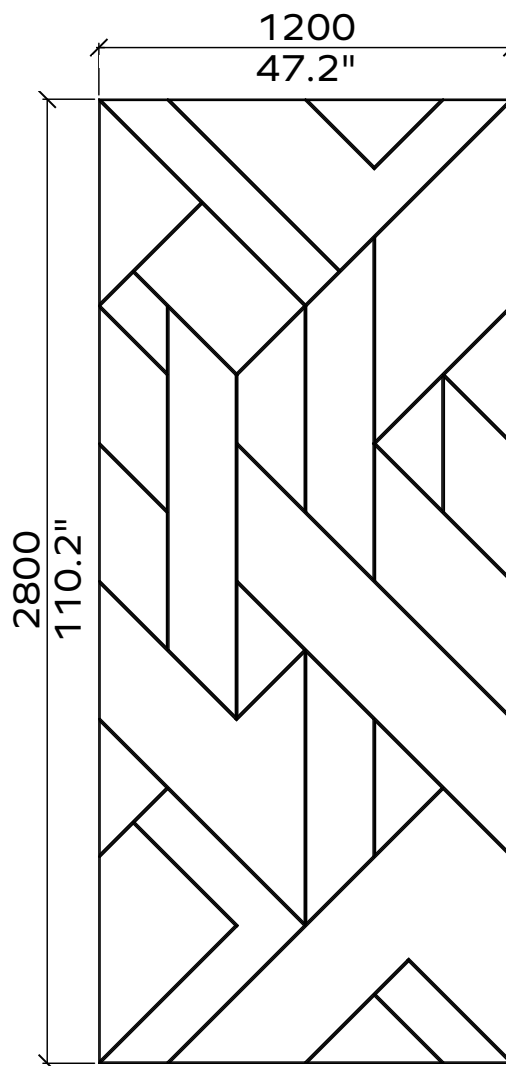
732.12.18.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

All dimensions are nominal

Gatsby 24mm

Applicable articles numbers

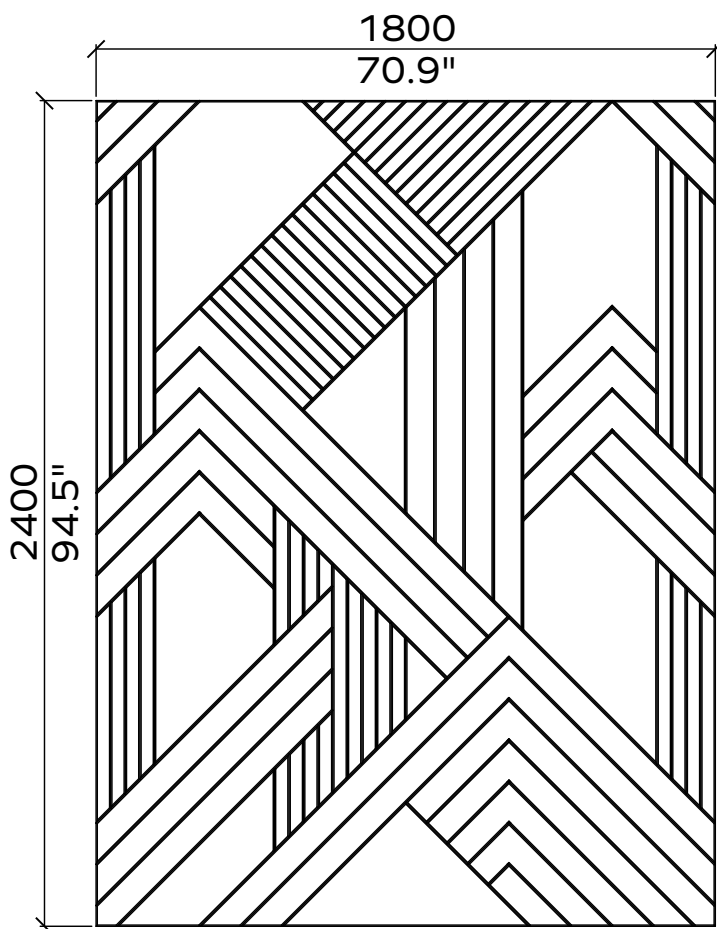
732.24.19.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Gatsby 12mm

Applicable articles numbers

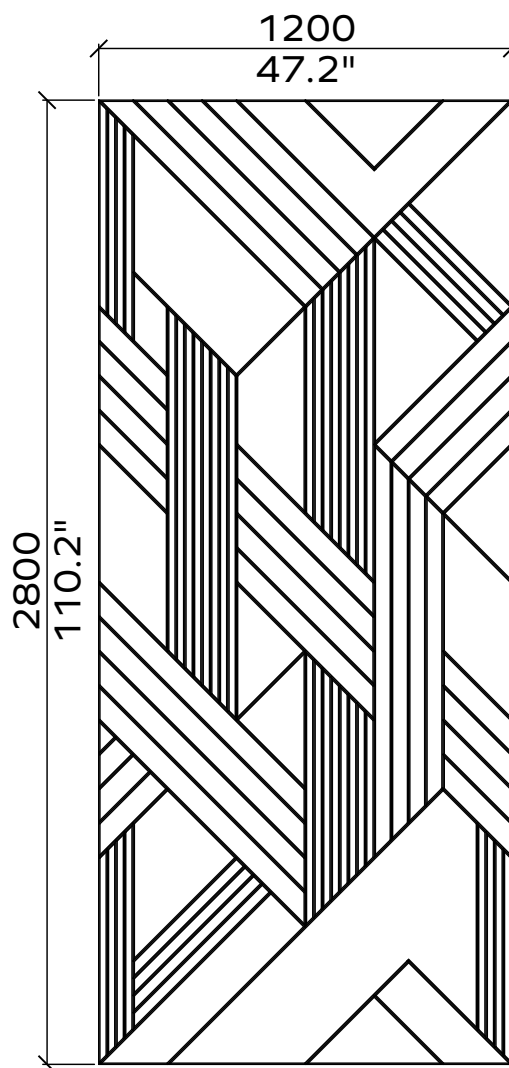
732.12.19.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

All dimensions are nominal

Contour 24mm

Applicable articles numbers

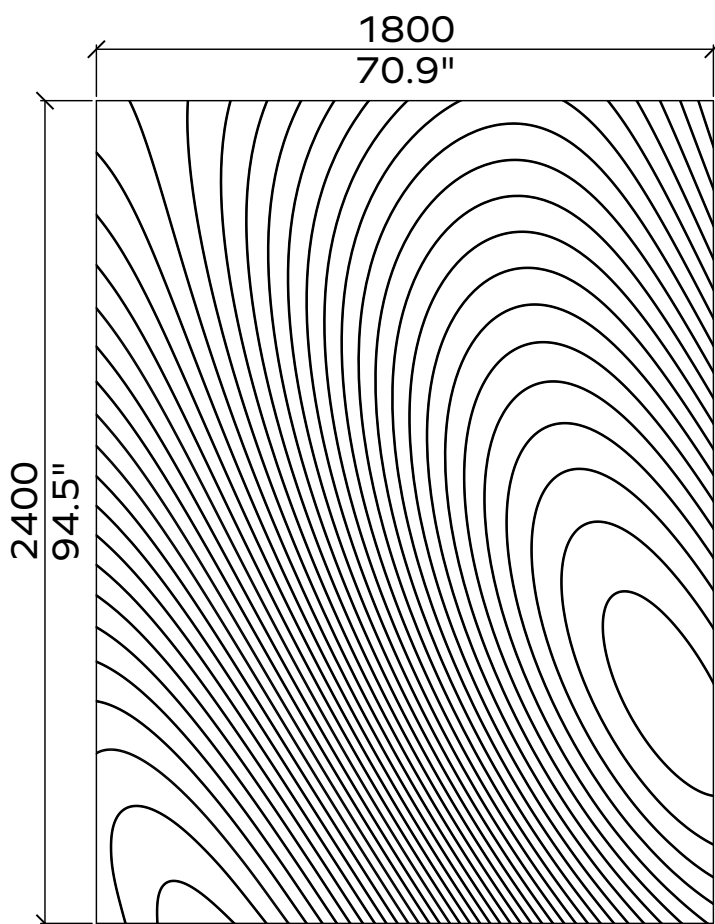
732.24.20.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Contour 12mm

Applicable articles numbers

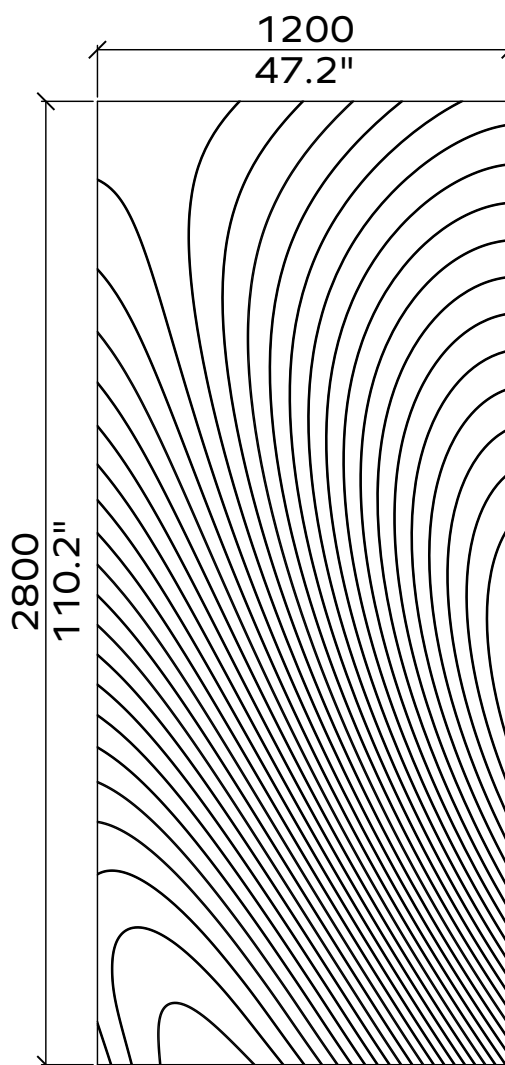
732.12.20.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.

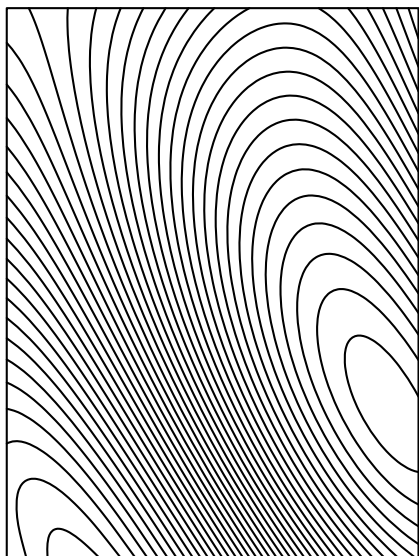


1x

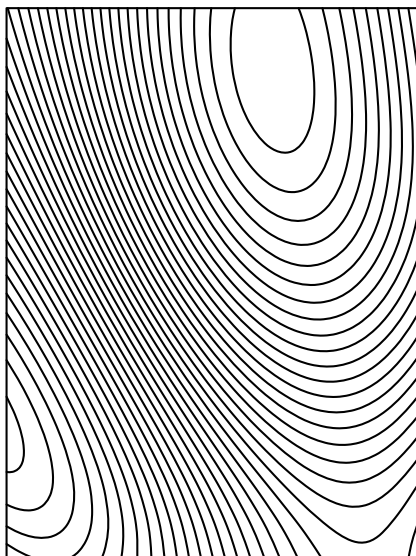
All dimensions are nominal

Contour

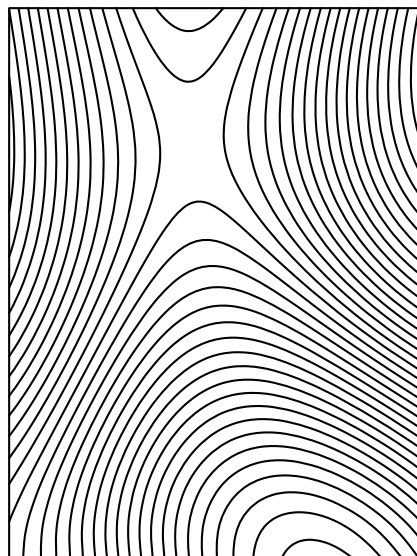
Patterns 24mm



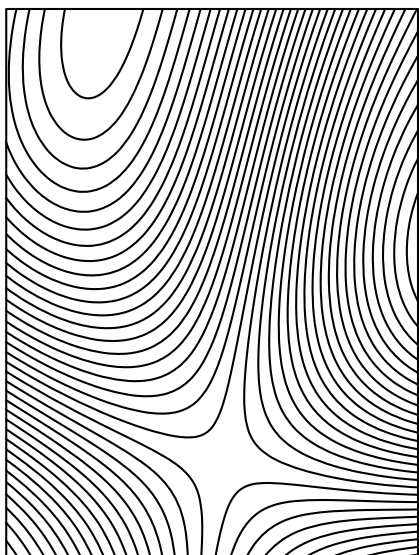
01



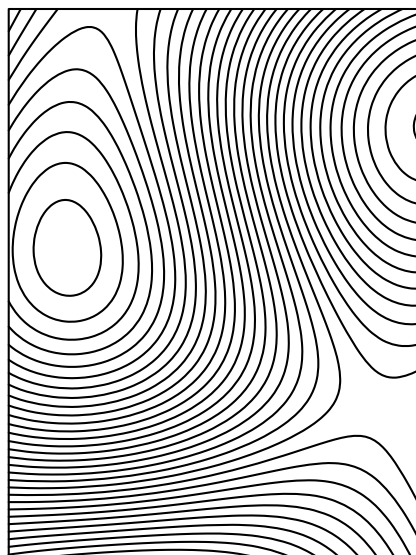
02



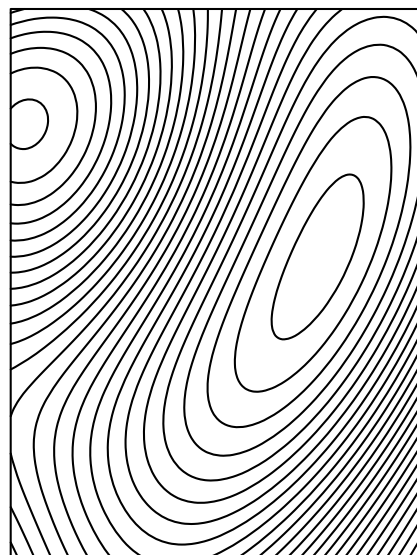
03



04



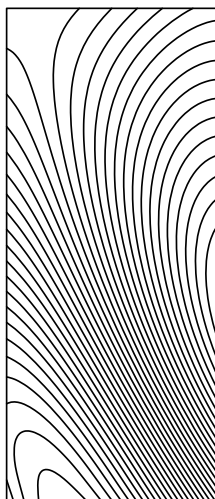
05



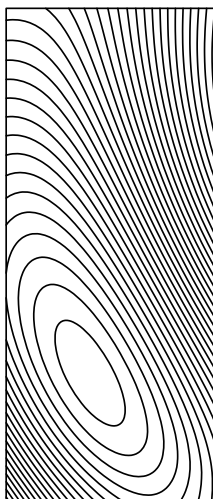
06

Contour

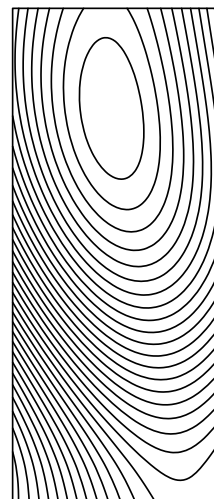
Patterns 12mm



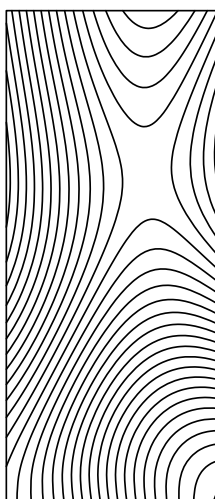
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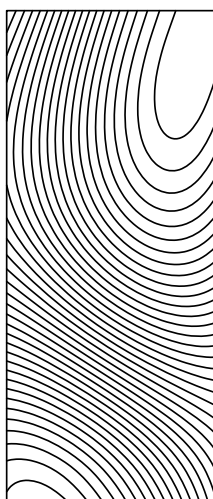
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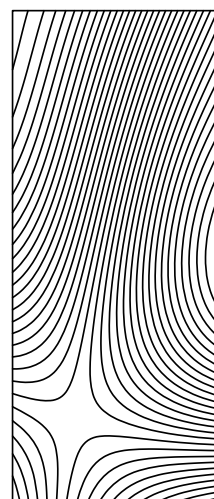
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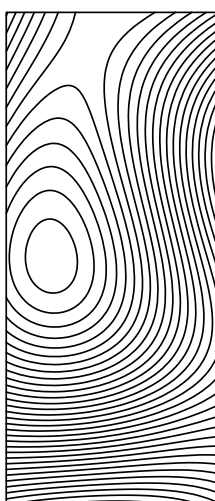
04



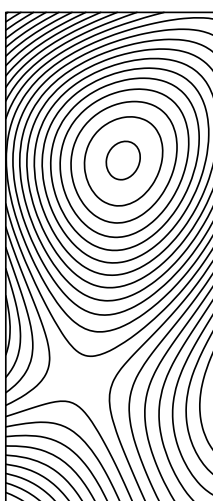
05



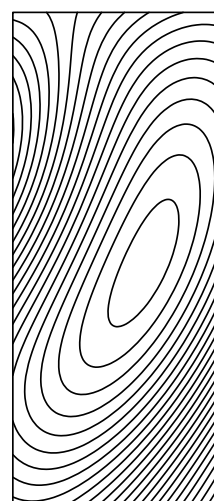
06



07



08



09

Loop 24mm

Applicable articles numbers

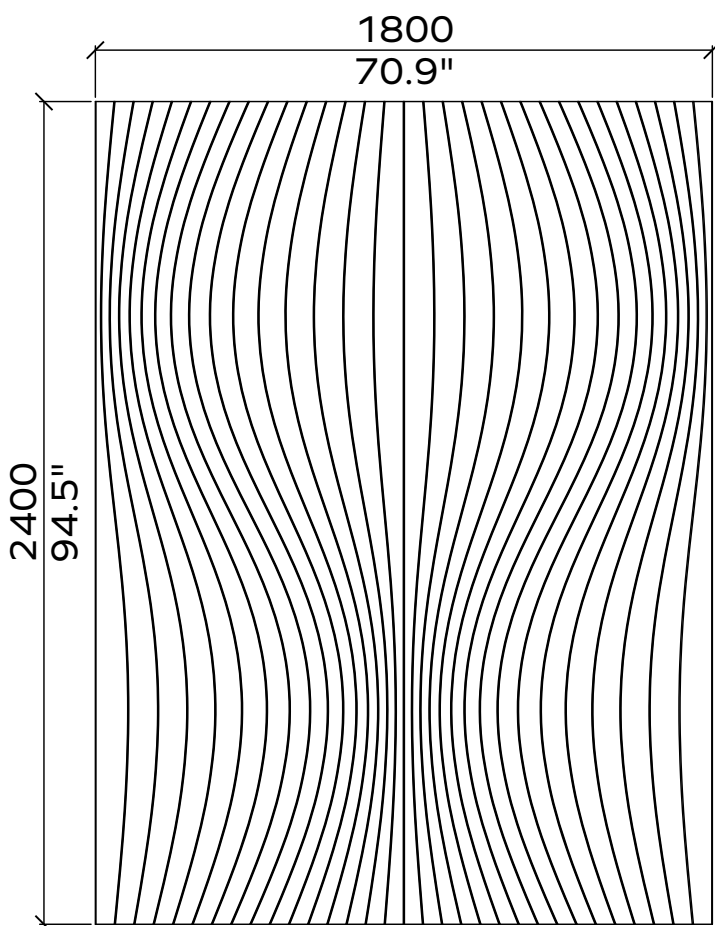
732.24.21.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Loop 12mm

Applicable articles numbers

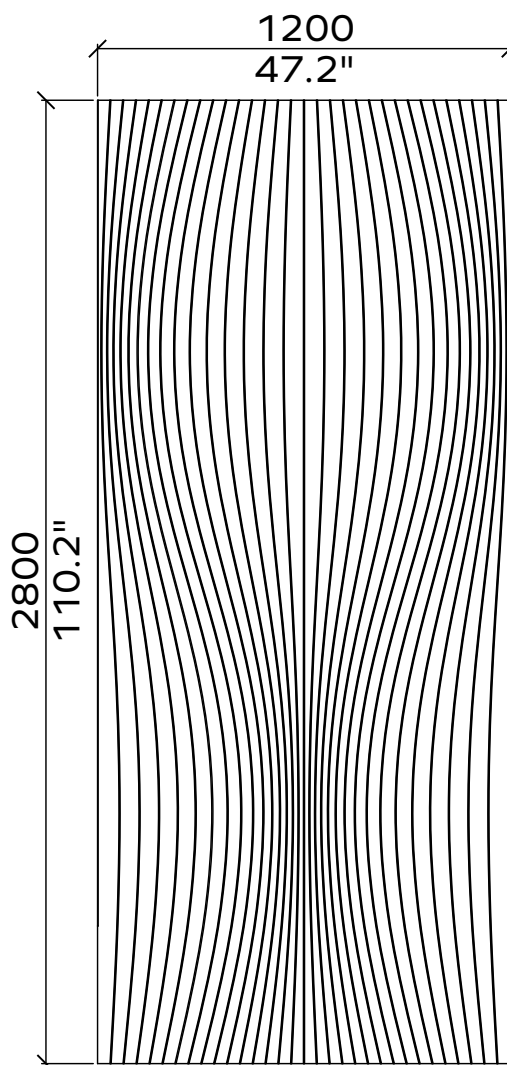
732.12.21.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

All dimensions are nominal

Maya 24mm

Applicable articles numbers

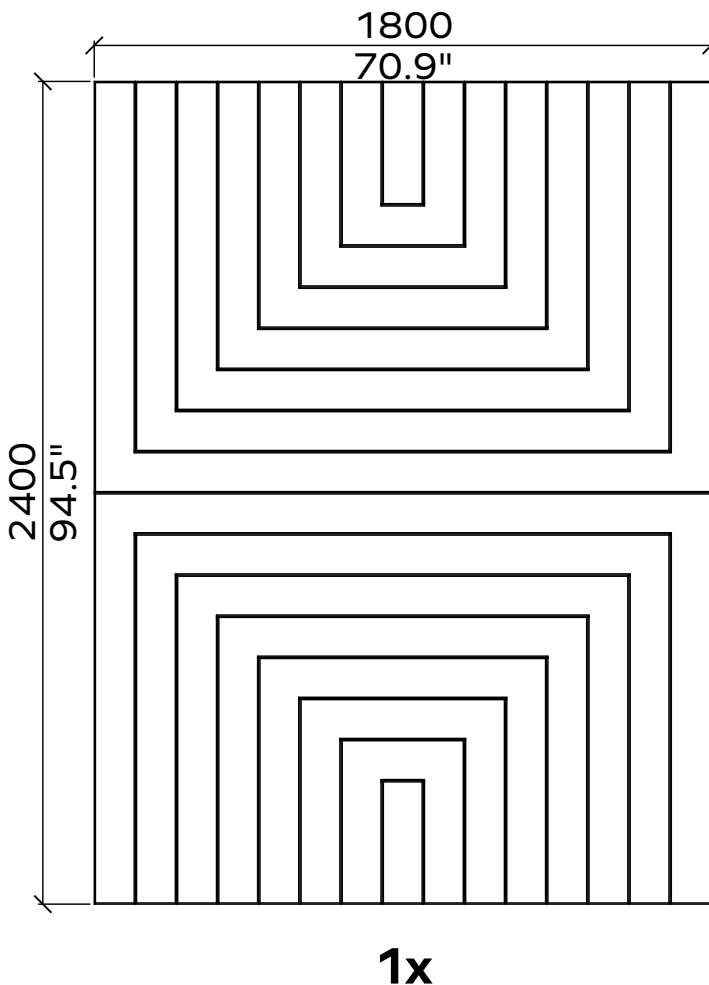
732.24.22.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Maya 12mm

Applicable articles numbers

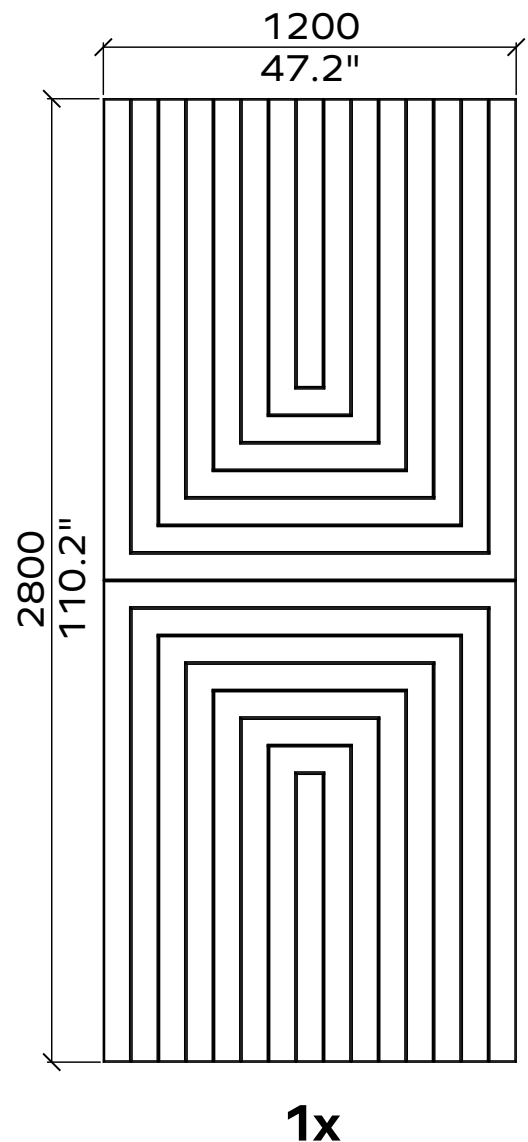
732.12.22.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



All dimensions are nominal

Fylo 24mm

Applicable articles numbers

732.24.23.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.

Fylo 12mm

Applicable articles numbers

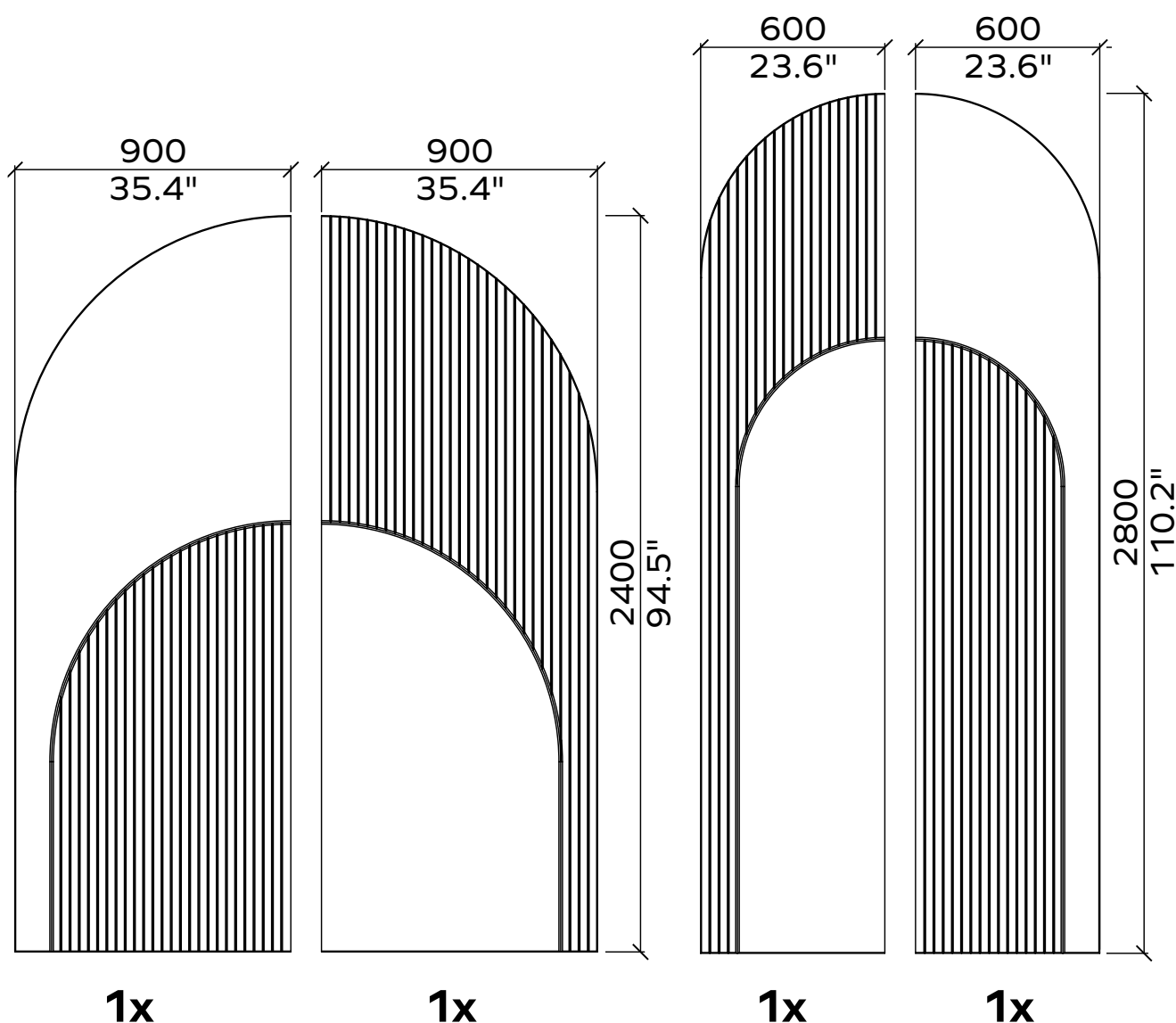
732.12.23.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



All dimensions are nominal

Cottage 24mm

Applicable articles numbers

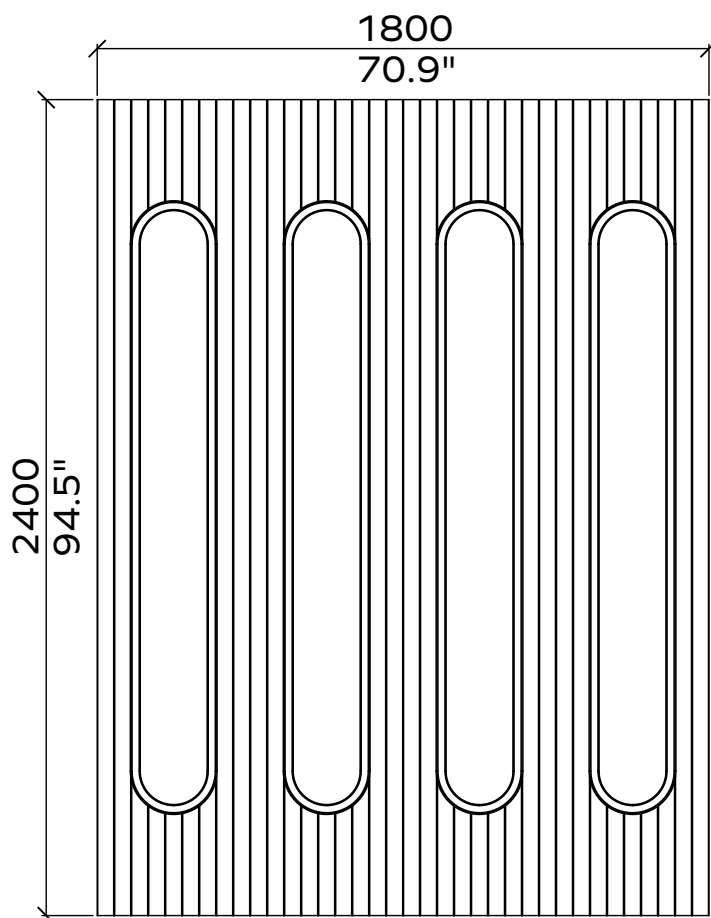
732.24.24.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Cottage 12mm

Applicable articles numbers

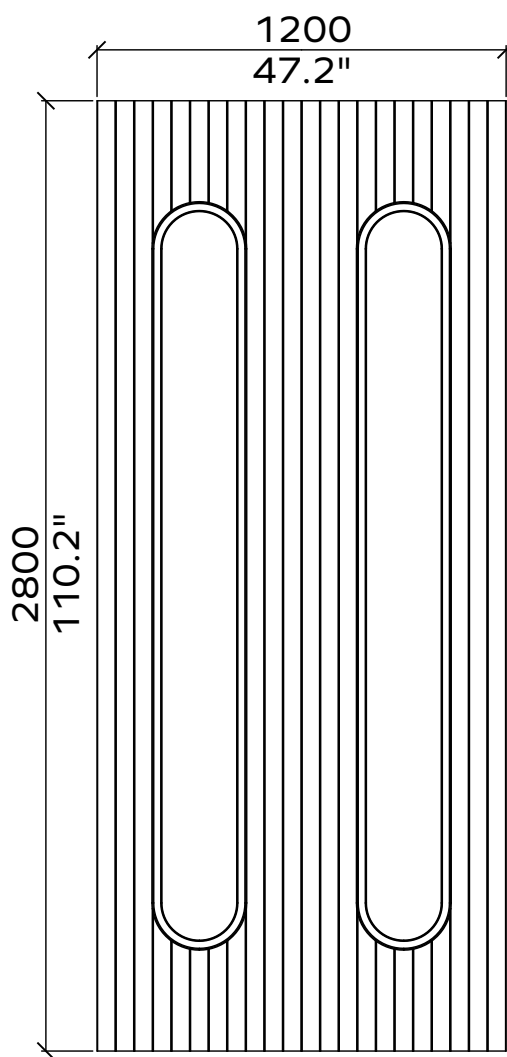
732.12.24.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

All dimensions are nominal

Fon 24mm

Applicable articles numbers

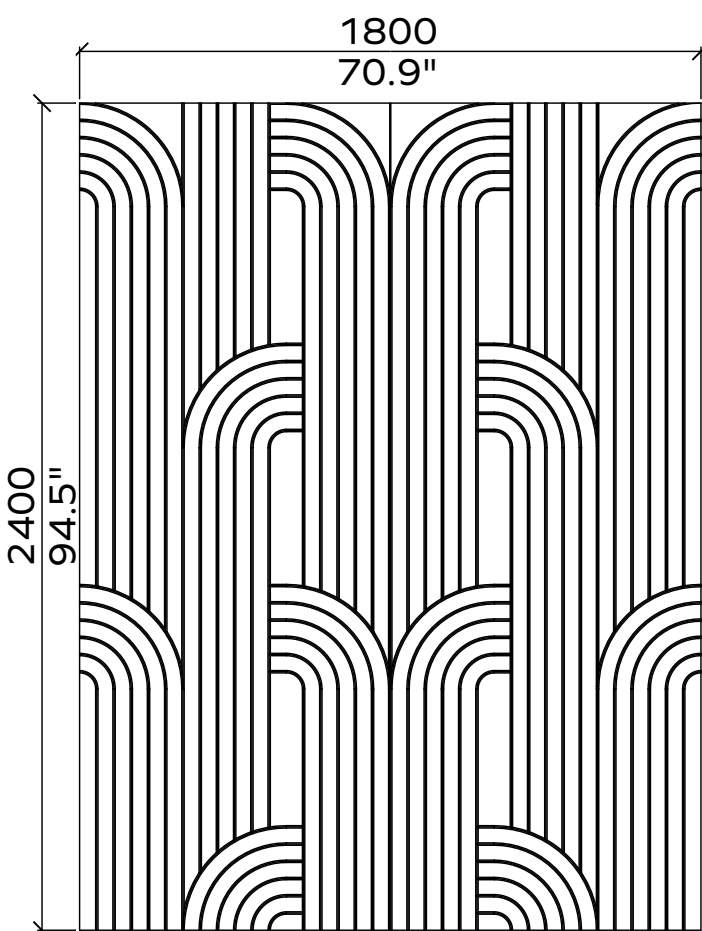
732.24.25.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Fon 12mm

Applicable articles numbers

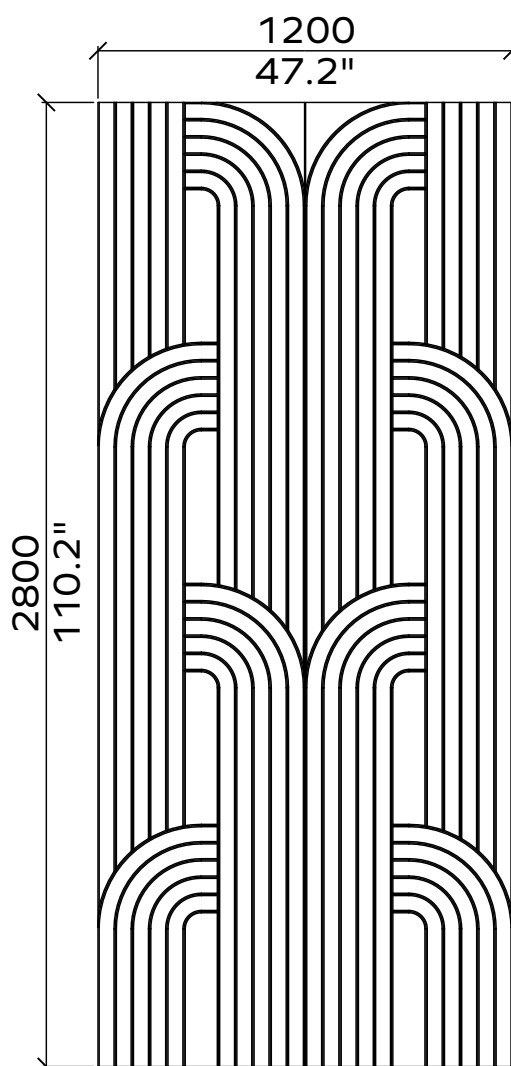
732.12.25.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

All dimensions are nominal

Pass 24mm

Applicable articles numbers

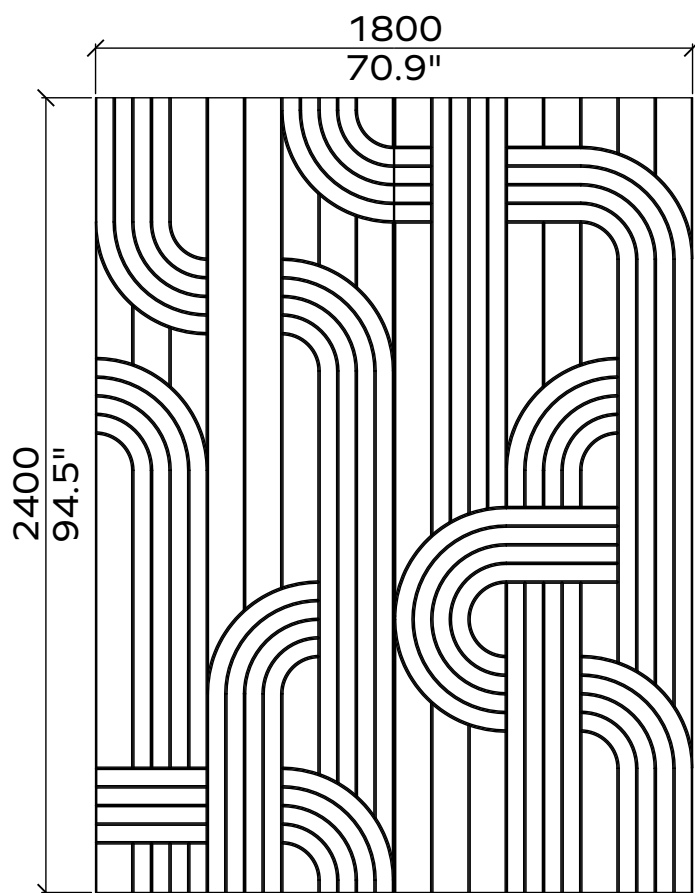
732.24.26.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Pass 12mm

Applicable articles numbers

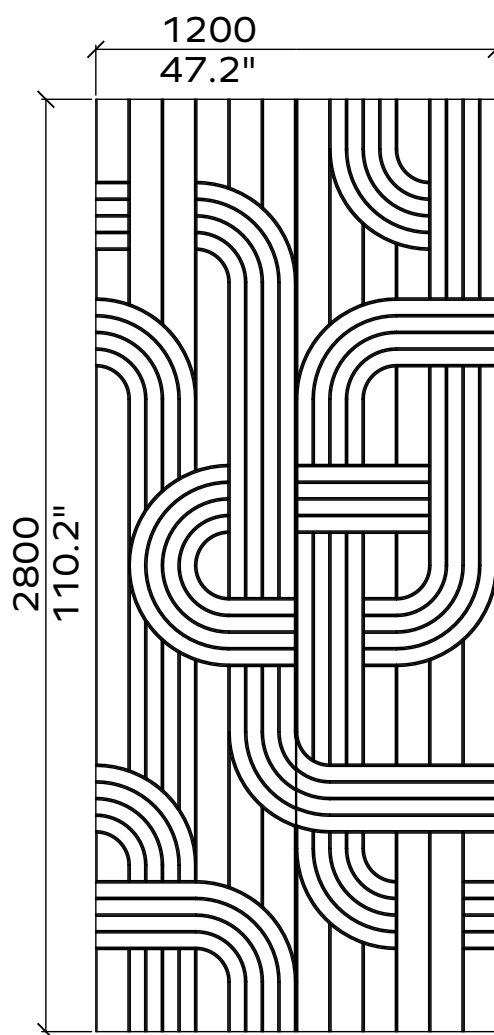
732.12.26.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

All dimensions are nominal

Bau 24mm

Applicable articles numbers

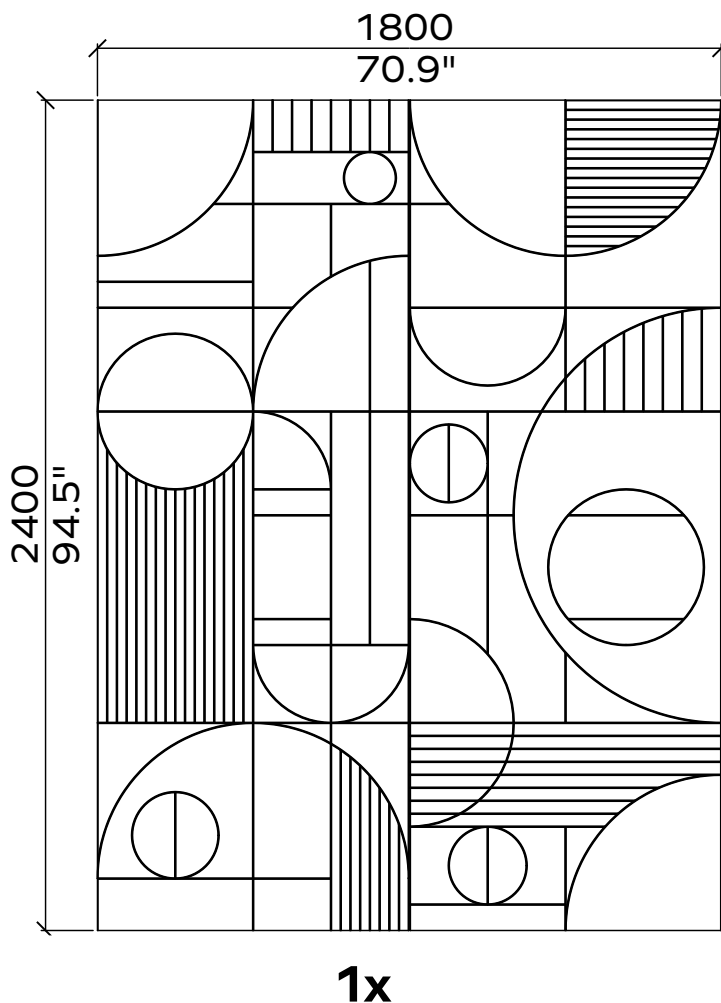
732.24.27.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Bau 12mm

Applicable articles numbers

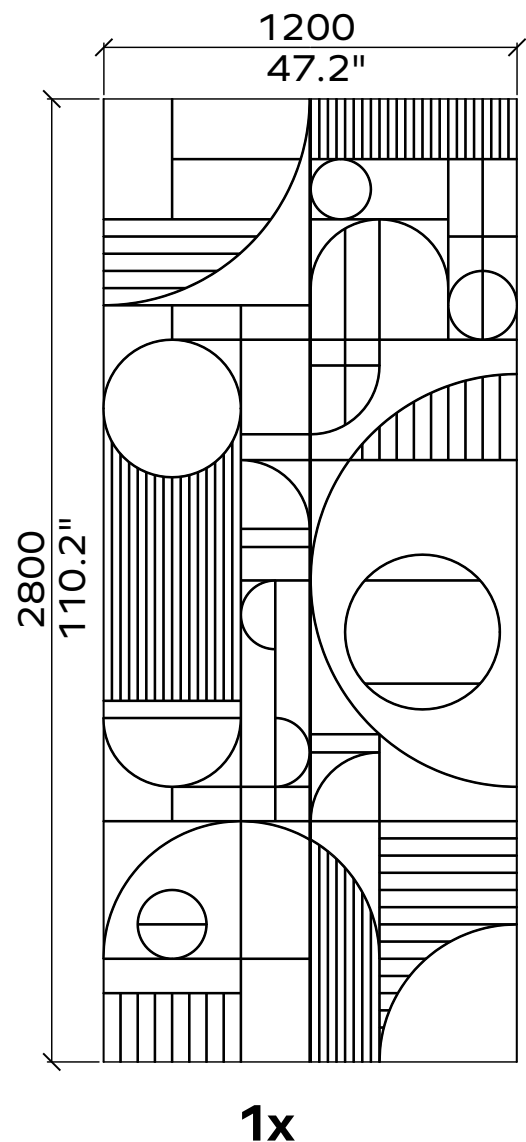
732.12.27.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



All dimensions are nominal

Vela 24mm

Applicable articles numbers

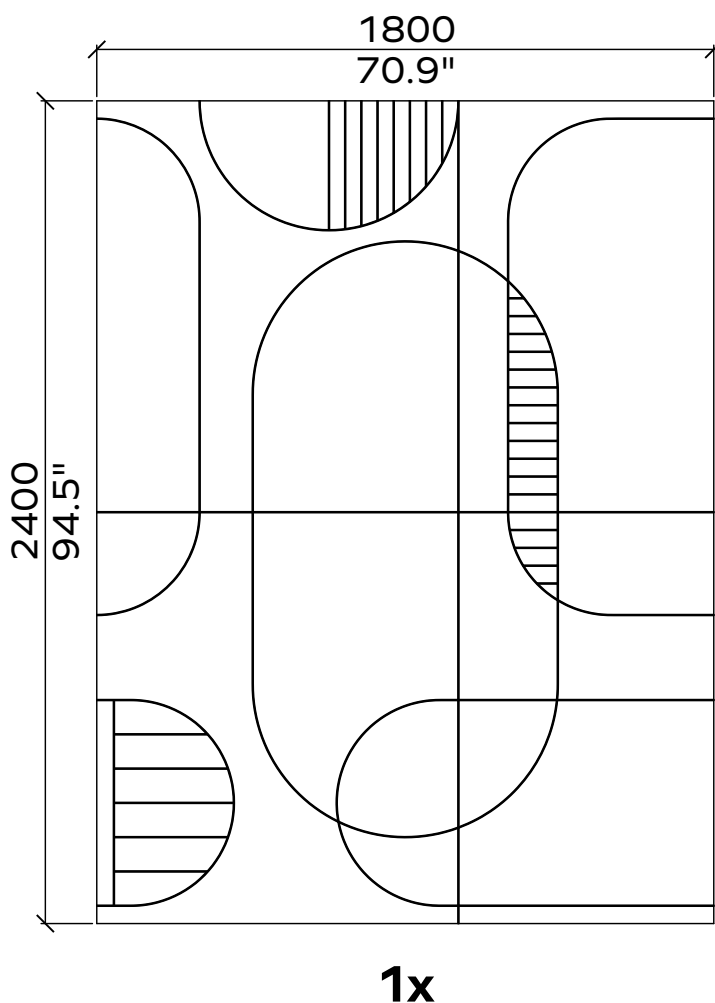
732.24.28.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Vela 12mm

Applicable articles numbers

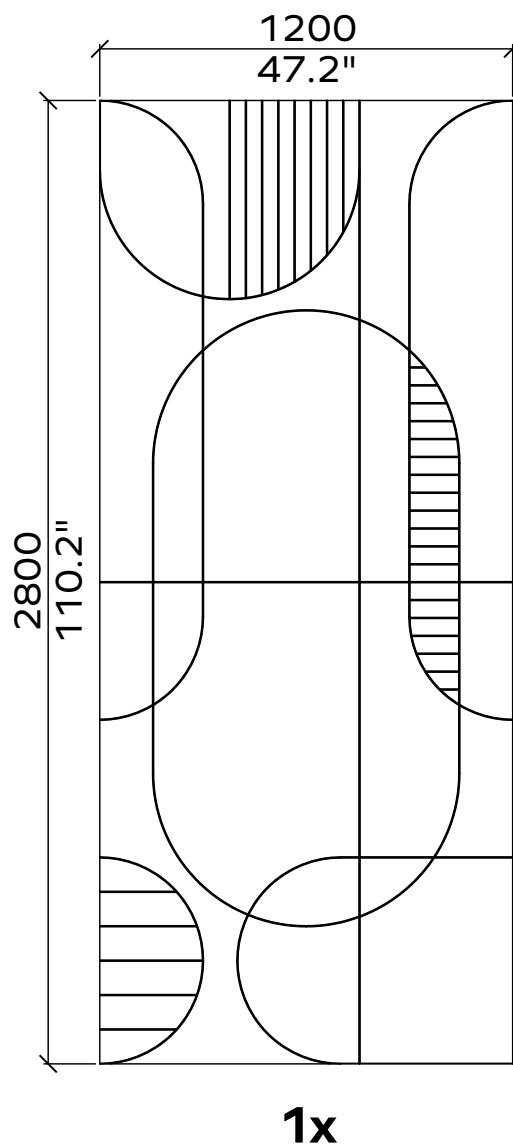
732.12.28.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



All dimensions are nominal

Tapis 24mm

Applicable articles numbers

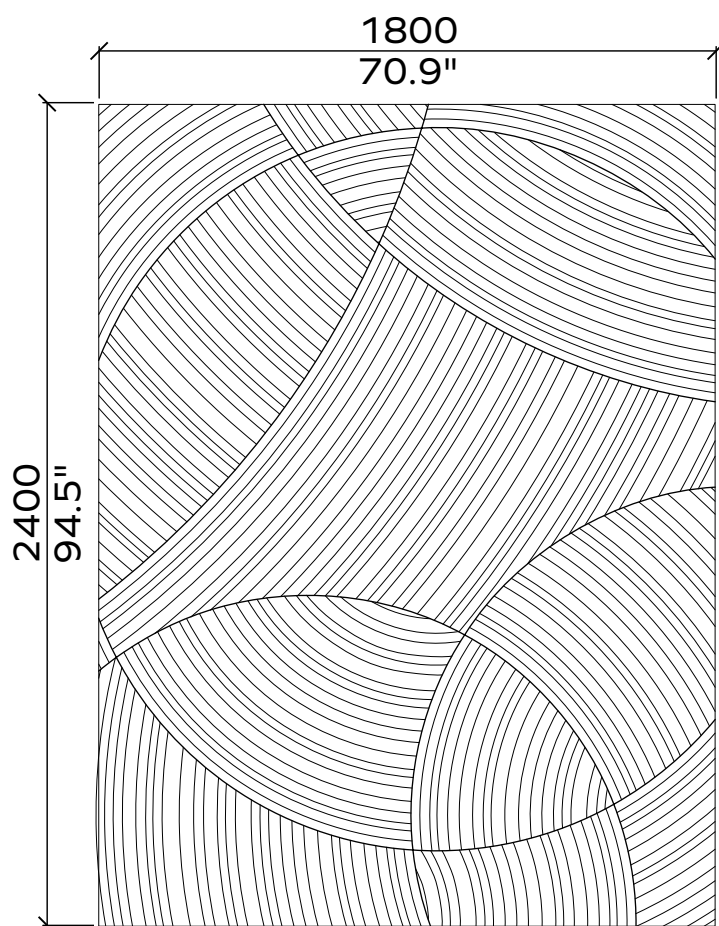
732.24.29.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



1x

Tapis 12mm

Applicable articles numbers

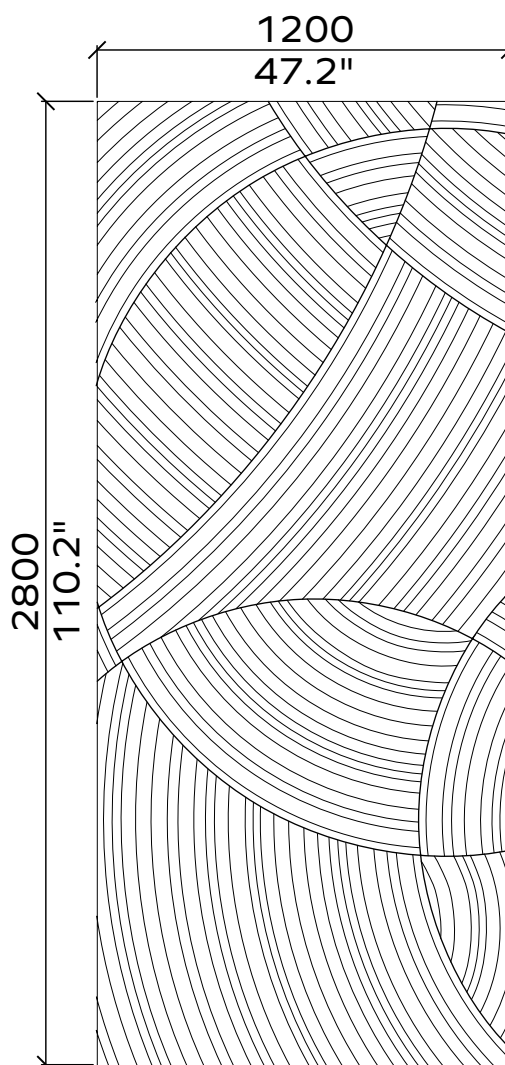
732.12.29.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.

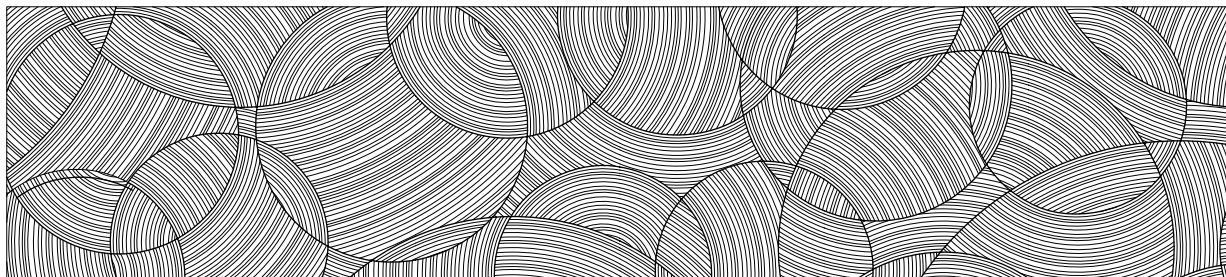


1x

All dimensions are nominal

Tapis

Patterns 24mm



01

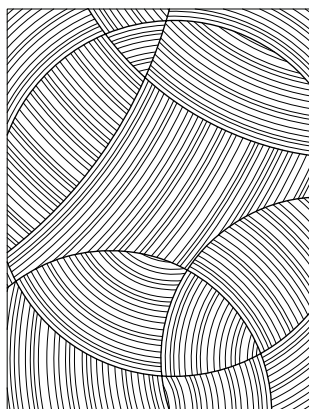
02

03

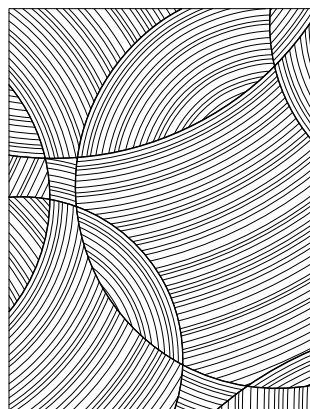
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05

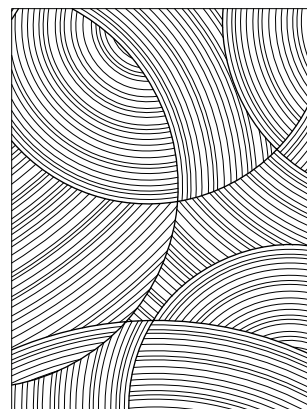
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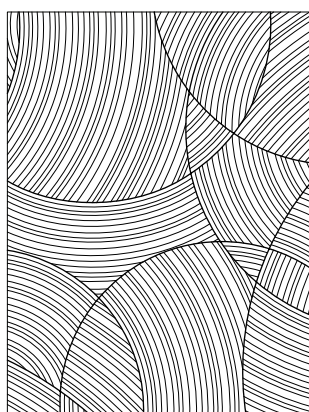
01



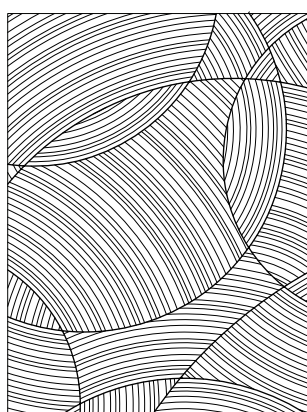
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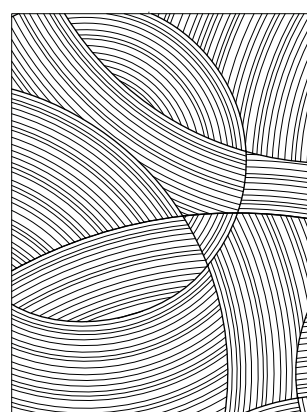
03



04



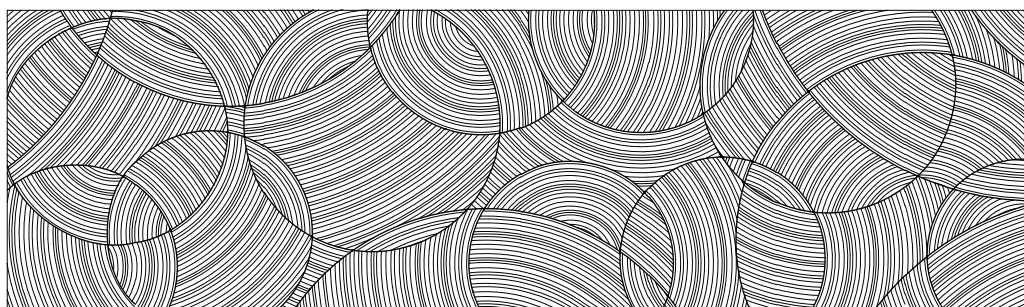
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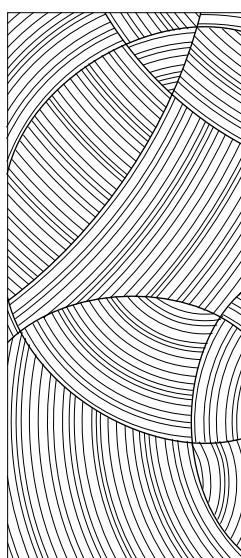
06

Tapis

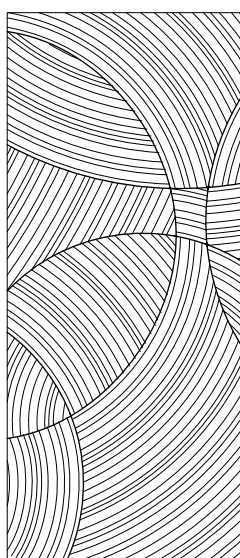
Patterns 12mm



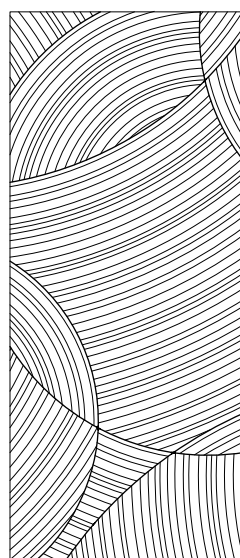
01 02 03 04 05 06 07 08



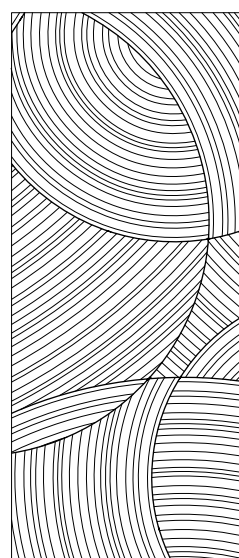
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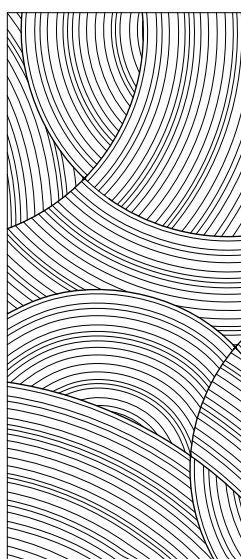
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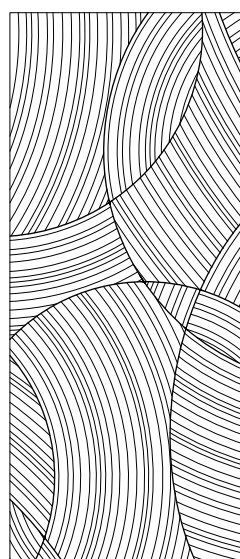
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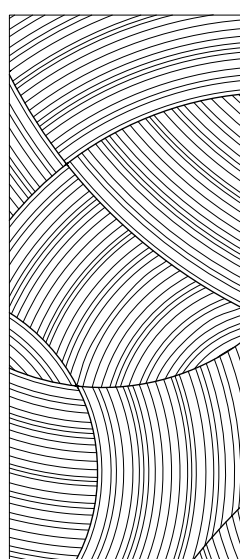
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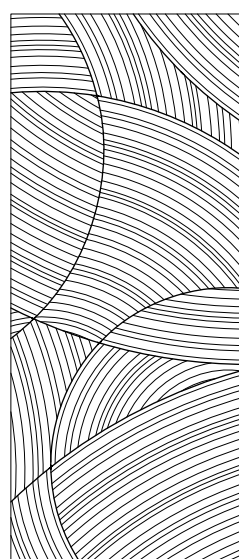
05



06



07



08

Stream 24mm

Applicable articles numbers

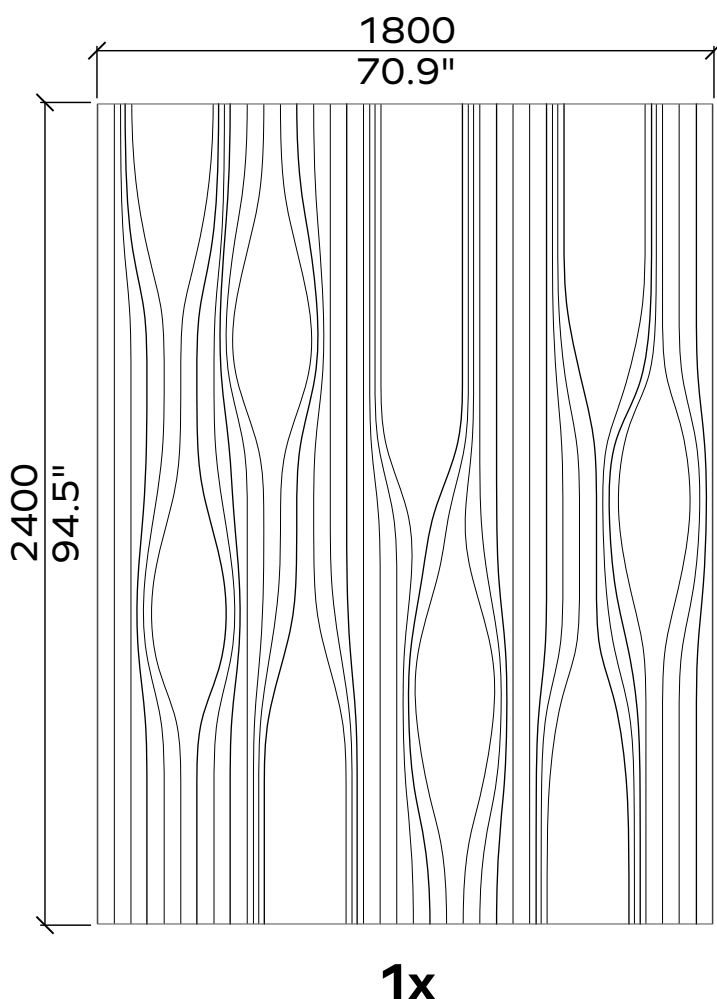
732.24.30.000.00 and .01

Scope of delivery

For each 24mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

These panels are mounted with a concealed attachment system. For other options contact our consultants.



Stream 12mm

Applicable articles numbers

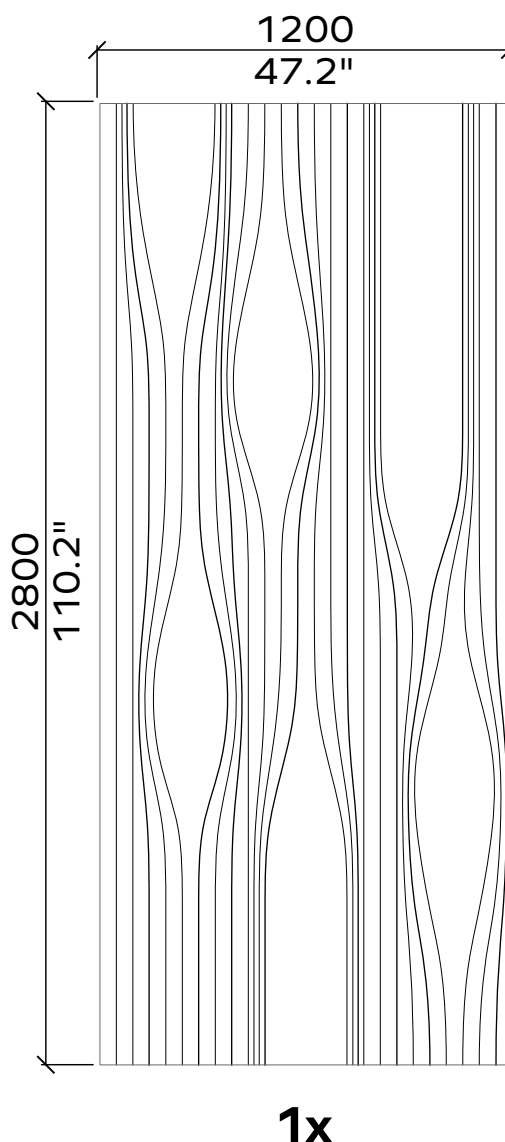
732.12.30.000.00 and .01

Scope of delivery

For each 12mm item you will receive a set of 1x PET panels (in the dimensions below)

Applicable articles numbers

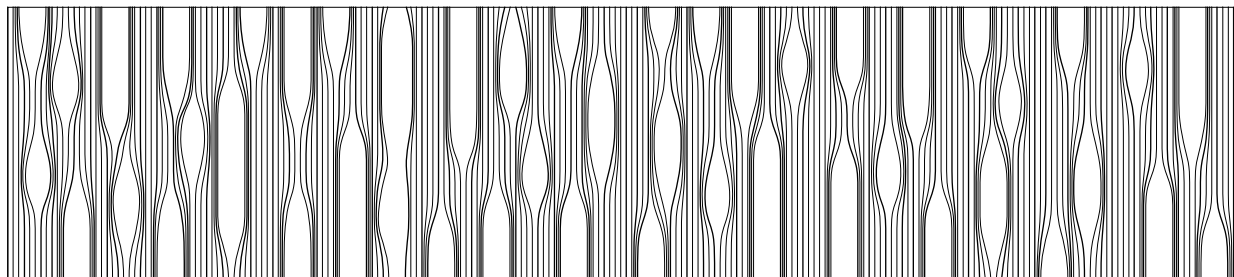
These panels are mounted with a concealed attachment system. For other options contact our consultants.



All dimensions are nominal

Stream

Patterns 24mm



01

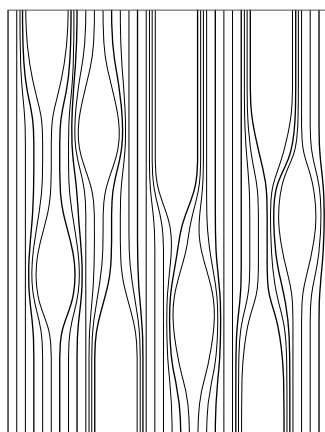
02

03

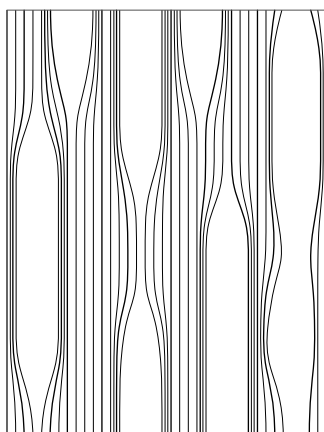
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05

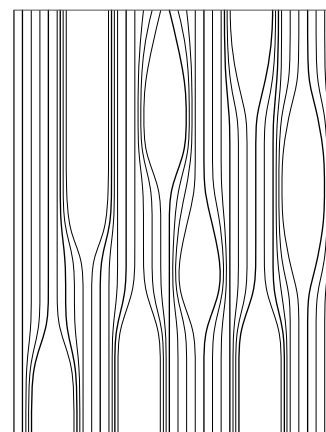
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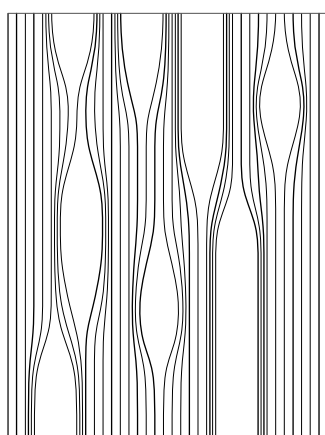
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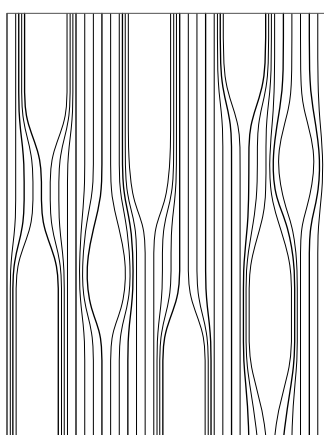
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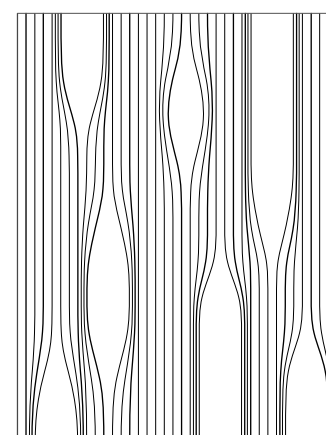
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04



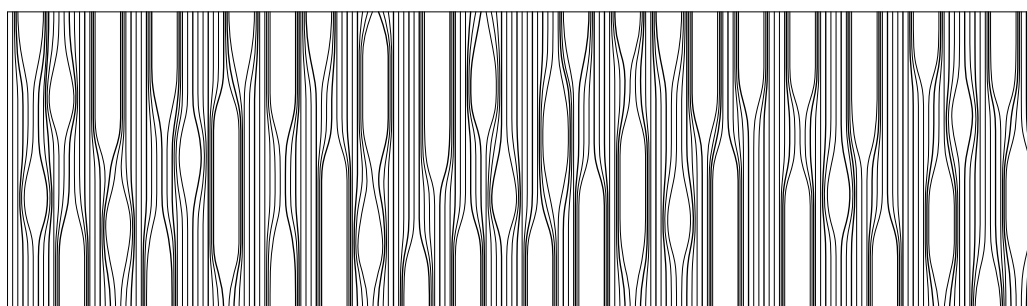
05



06

Stream

Patterns 12mm



01

02

03

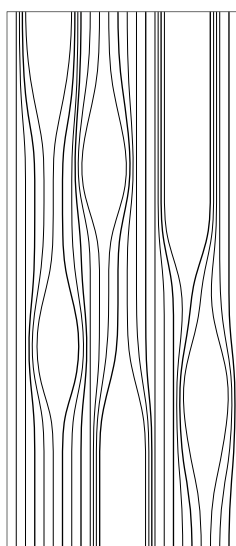
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05

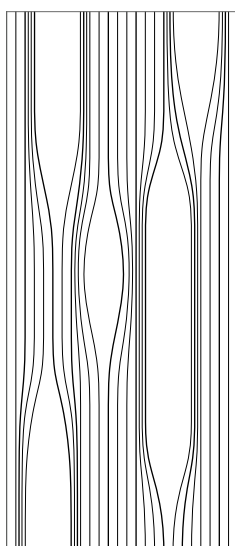
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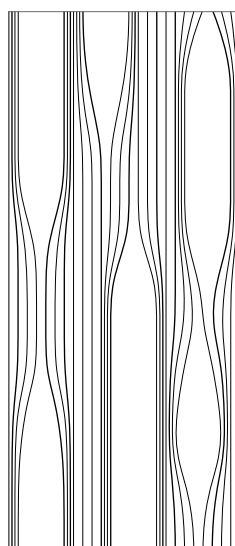
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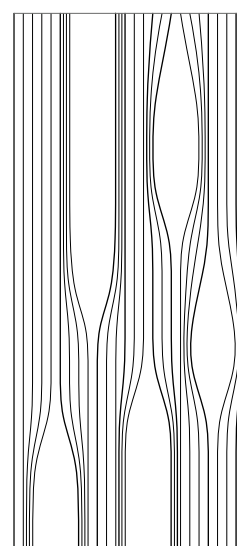
01



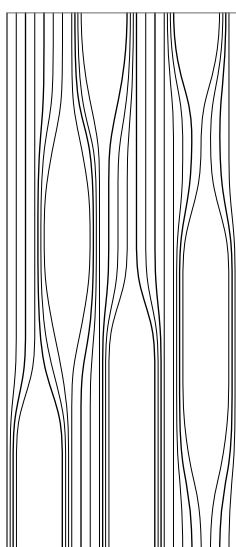
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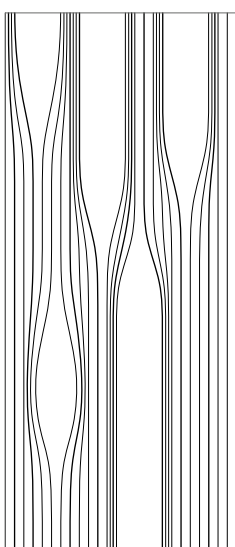
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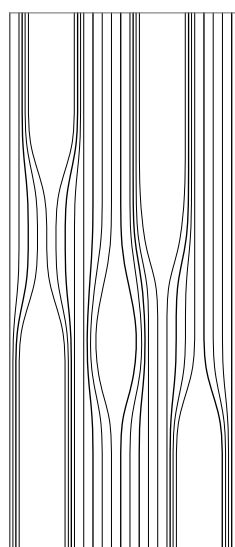
04



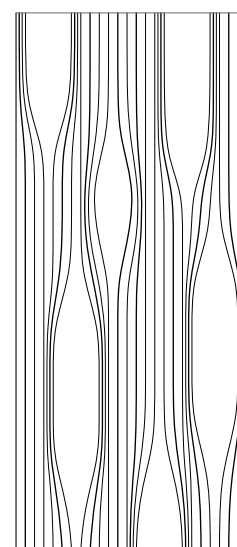
05



06



07



08

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

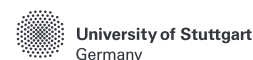


Climate-KIC is supported by the
EIT, a body of the European Union



Wall Panels

Acoustic Performance



Testing Standards

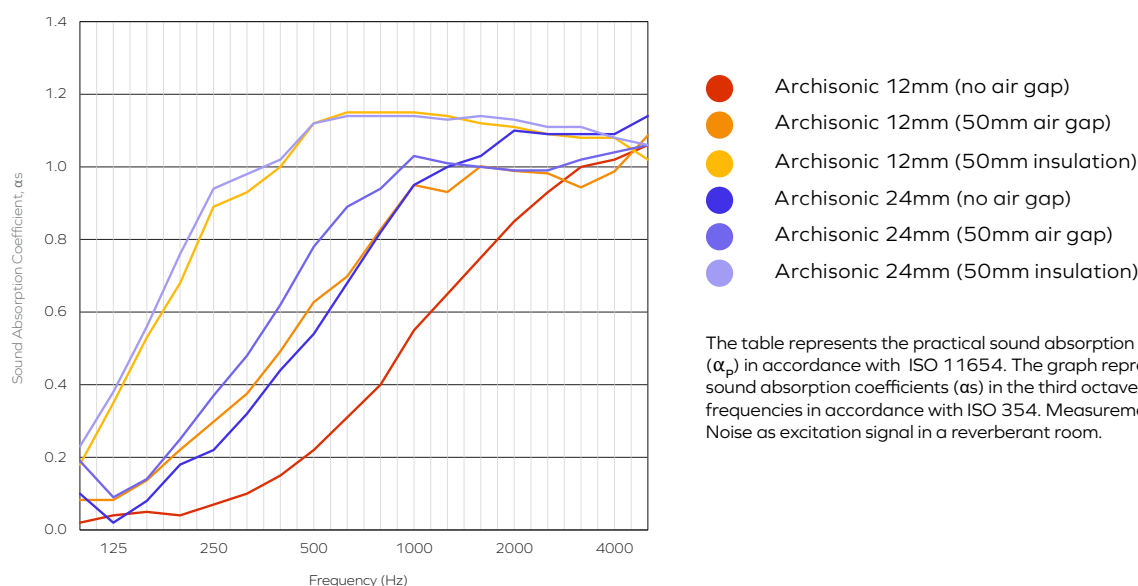
ISO 354:2003	Acoustics — Measurement of sound absorption in a reverberation room
ISO 11654:1997	Acoustics — Sound absorbers for use in buildings — Rating of sound absorption
ISO 20189:2018	Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound reduction of elements based on laboratory measurements
ASTM C423-17	Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
ASTM E795-16	Standard Practices for Mounting Test Specimens During Sound Absorption Tests

Acoustic Test Results	α_w	SAA	NRC
Archisonic 12mm (no air gap)	0.3 (MH)	0.42	0.45
Archisonic 12mm (50mm air gap)	0.4 (MH)	0.50	0.65
Archisonic 12mm (50mm insulation)	1.00	1.00	0.95
Archisonic 24mm (no air gap)	0.55 (MH)	0.70	0.70
Archisonic 24mm (50mm air gap)	0.65 (MH)	0.78	0.80
Archisonic 24mm (50mm insulation)	1.00	1.00	1.00

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
Archisonic 12mm (no air gap)	α_p	0.05	0.05	0.25	0.55	0.85	1.00
Archisonic 12mm (50mm air gap)	α_p	0.10	0.30	0.60	0.90	1.00	1.00
Archisonic 12mm (50mm insulation)	α_p	0.35	0.85	1.00	1.00	1.00	1.00
Archisonic 24mm (no air gap)	α_p	0.05	0.25	0.55	0.90	1.00	1.00
Archisonic 24mm (50mm air gap)	α_p	0.15	0.35	0.75	1.00	1.00	1.00
Archisonic 24mm (50mm insulation)	α_p	0.40	0.90	1.00	1.00	1.00	1.00



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.

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