

— RESIN MATERIAL

Design Guide

**WE ARE TRAILBLAZERS OF AWESOMENESS
WE ARE CRAFTSMEN OF COOL
WE DO STUFF THAT MATTERS
CAN YOU DO THAT? YES YOU CAN
AND WE'RE STOKED OUT OF OUR BRAINS ABOUT IT
WE DO MINDBLOWING THINGS WITH FORM, TEXTURE, AND LIGHT
WITH A MANIACAL SENSE OF URGENCY
WE ARE PASSIONATE ABOUT OUR PEOPLE AND OUR PLANET
WE ARE 3FORM**



SMART DESIGN FOR A BETTER WORLD

Welcome

Use this design guide for proper specification of 3form resin materials.

Create unique panels for use in simple, preconfigured solutions or your own custom applications.

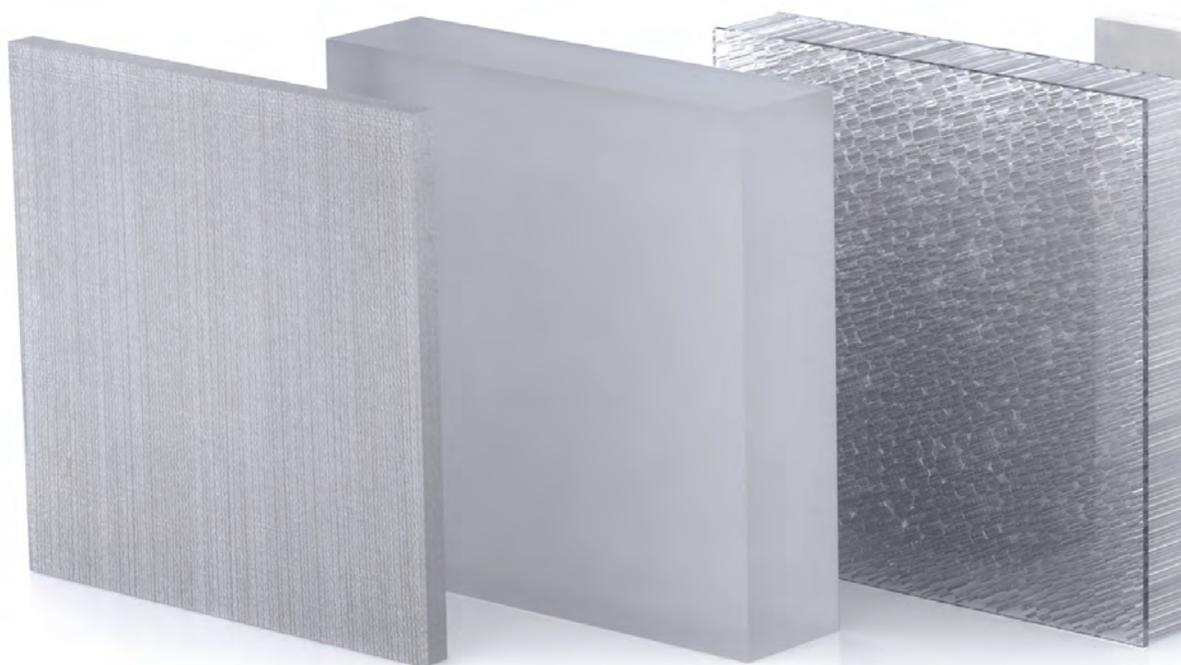




Cooper Union College
New York, NY, USA

Varia
Custom Colour

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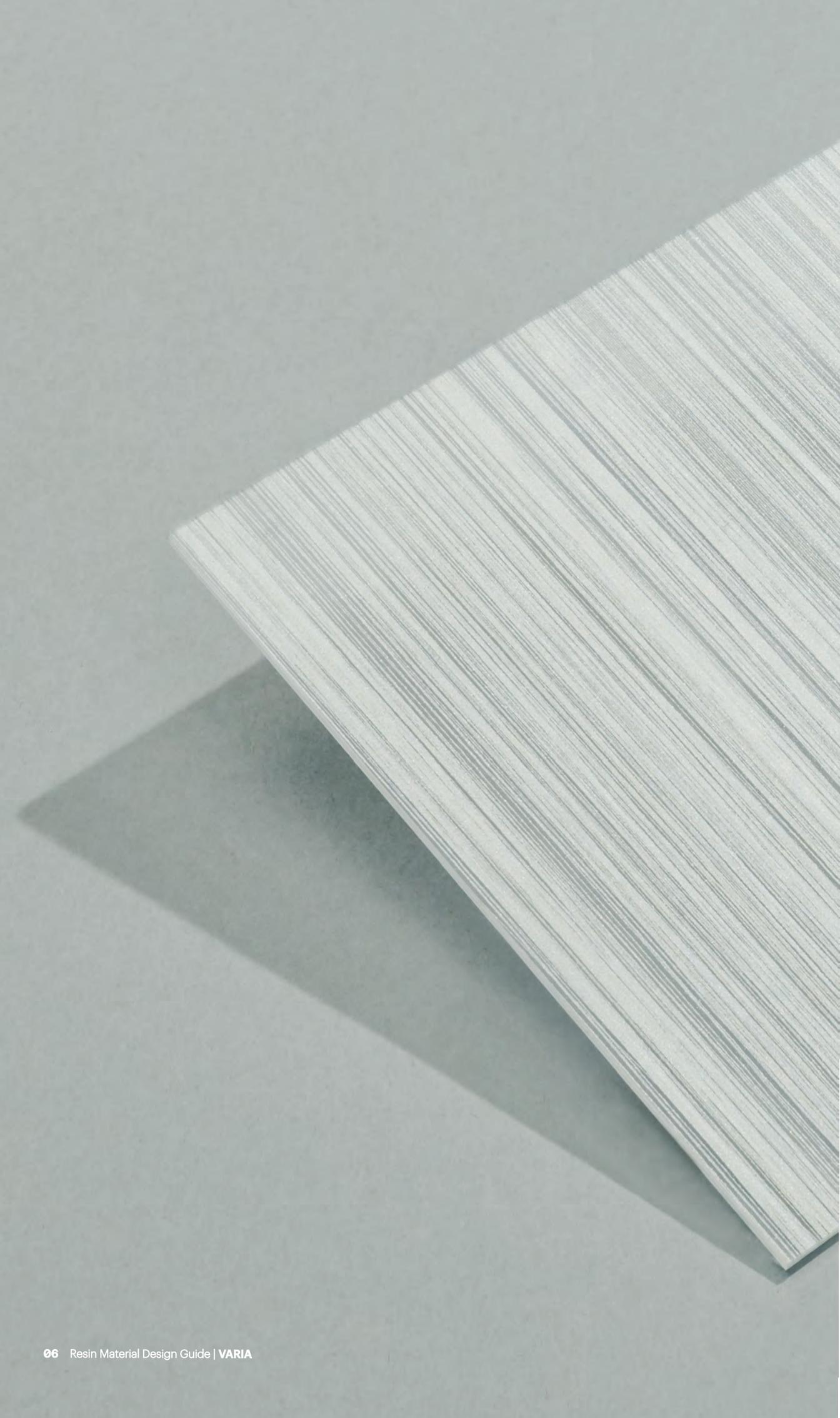
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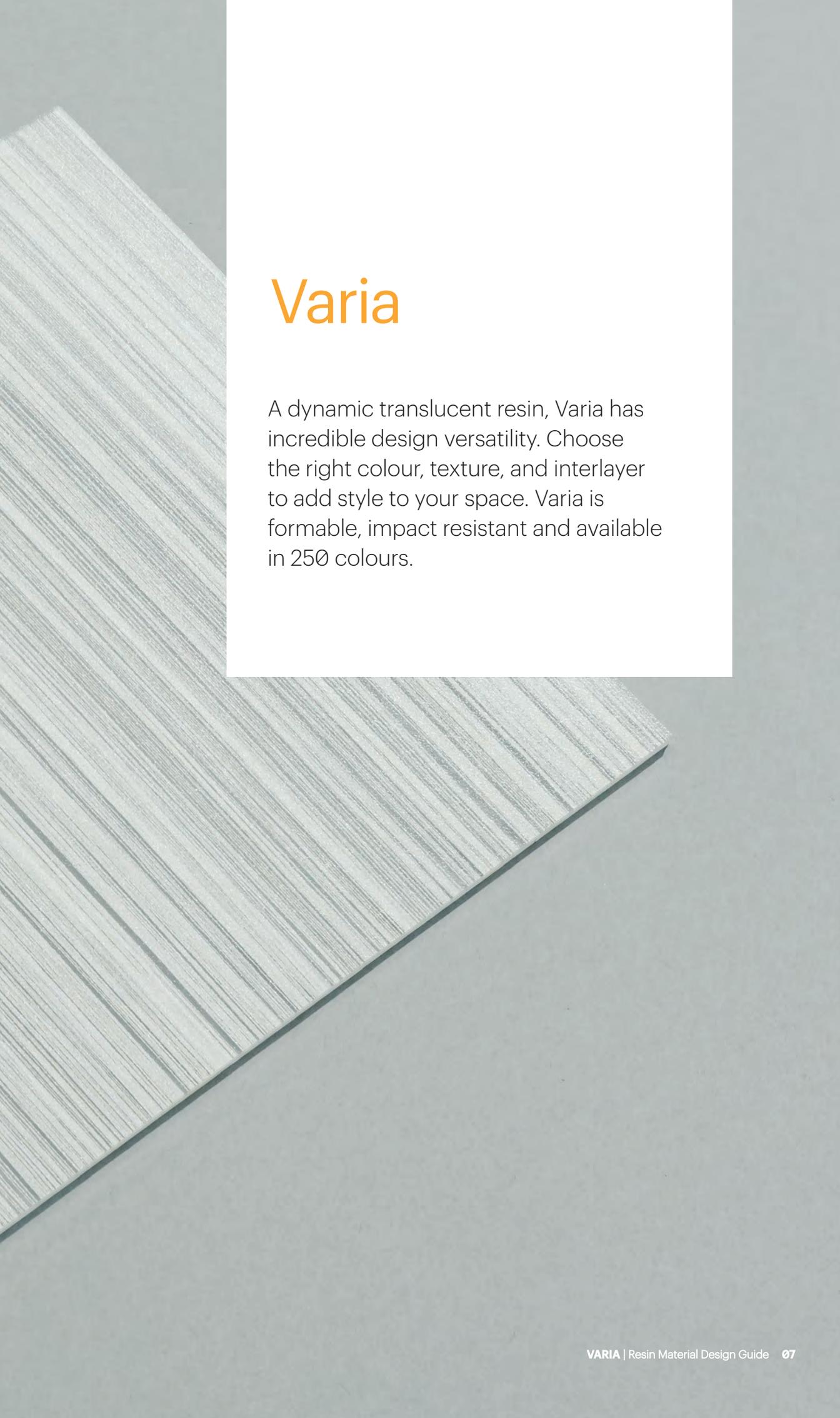
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Varia

A dynamic translucent resin, Varia has incredible design versatility. Choose the right colour, texture, and interlayer to add style to your space. Varia is formable, impact resistant and available in 250 colours.

— VARIA

Translucency

Translucent resin panels make a design statement in your space.





Couture Office
New York, NY, USA

Varia
Snag Coal

Marriott Pulse Bar
Atlanta, GA, USA

Varia
Ghost, RGB Lighting





Chevy Chase Pavilion
Washington DC, USA

Varia
Ghost, RGB Lighting

— VARIA

Illumination

Create your vision,
then illuminate for
dramatic effect.



Morimoto Sushi Bar
Las Vegas, NV, USA

Varia
High Resolution Print



— VARIA

Modularity

Multiple panels combine to create stylish designs.

— VARIA

Durability

Impact resistance combines with translucency, for stunning, functional installations.





NIBC
Den Haag, Netherlands

Varia
Seaweed + Ghost



Salt Lake City Community College
Salt Lake City, UT, USA

Varia
Gild Silver & Glint Silver + Suspend

— VARIA

Adaptable

Forming and cutting techniques can be used to create custom shapes and curves.

Red Rocks Casino
Las Vegas, NV, USA

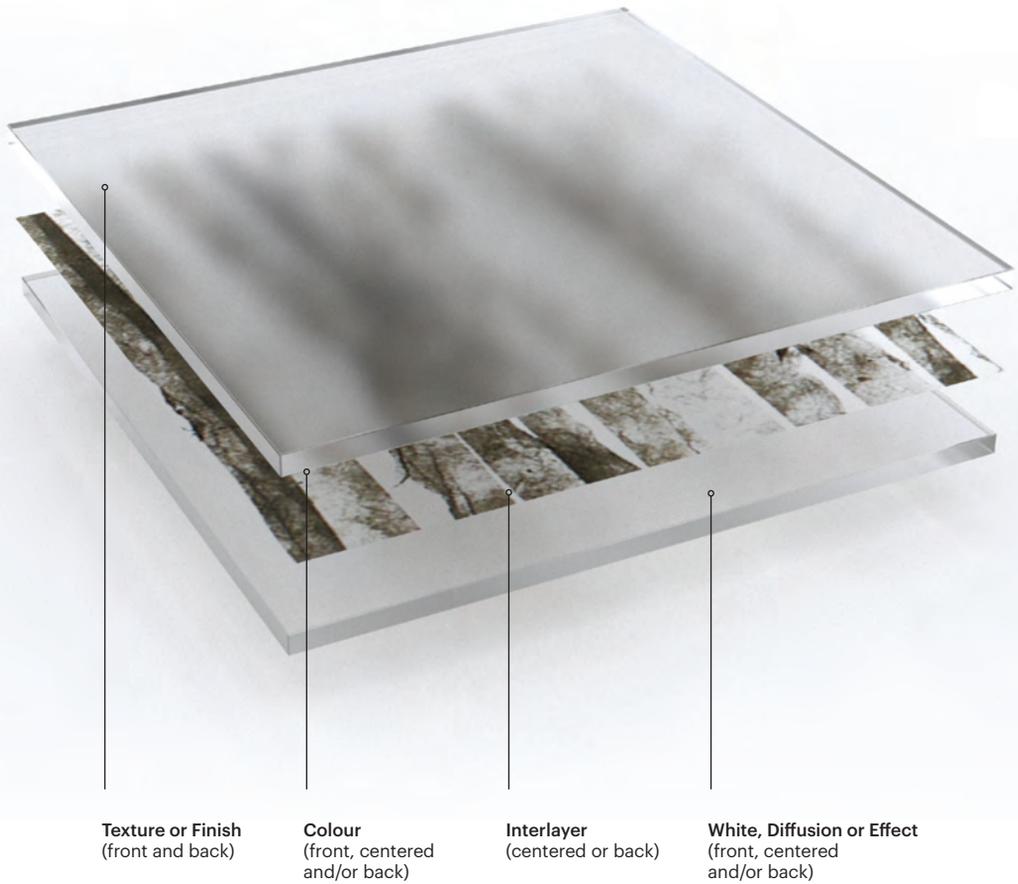
Varia
Bewitched, Mango, Melody



— VARIA

Design Choices

1. Texture and/or Finish
2. Colour
3. Interlayer
4. Effects



Varia Panel Shown
Finish (Sandstone, F01)
Interlayer (Fray Smoke, Centered)
Finish (Sandstone, F01)



Natural & Artisan Interlayers

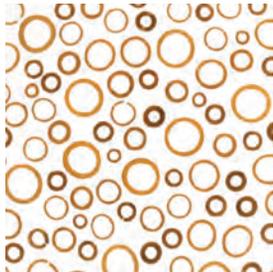
Bring refined natural elements or playful, artistic flare into your space.



Timber Longitude Mocha



Kathali Gray



Bamboo Rings Natural



Whisper



Timber Latitude Gray



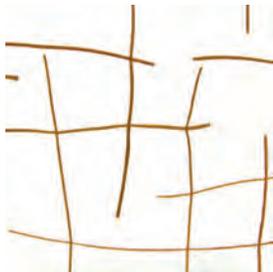
Fossil Leaf Random



Antique Fleur



Birch



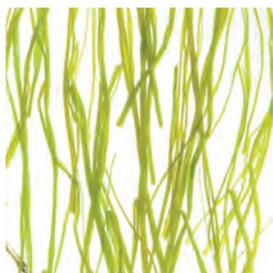
Stack



Ting Ting



Thicket Raven



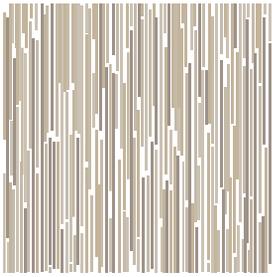
Seaweed



Beargrass



Coconut Husk Black



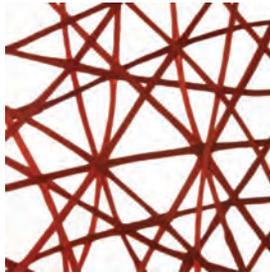
Lina Tan



Banana Fibre Dark



Connection Ink



Connection Passion



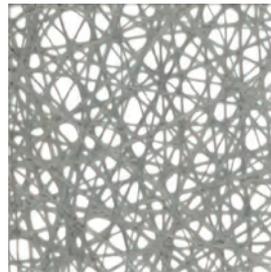
Connection Envy



Connection Pure



Ion Wheat



Connection Mini Gray



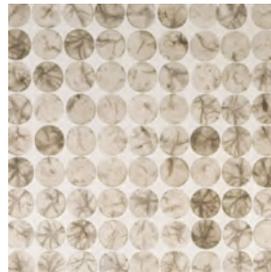
Connection Square Pure



Ensign



Capiz Honey Sienna



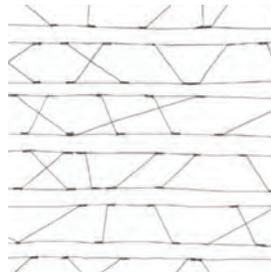
Capiz Full Straight



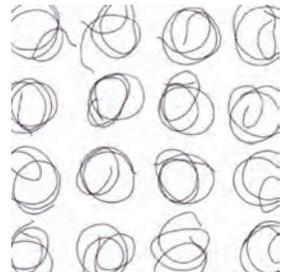
Ion Green Tea 2



Dance



Ladder

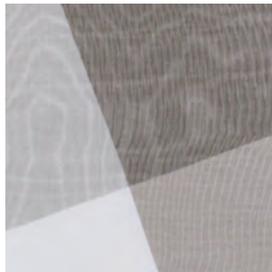


Pogo

— VARIA

Textile & Metallic Interlayers

Sophisticated textiles or elegant metallics.



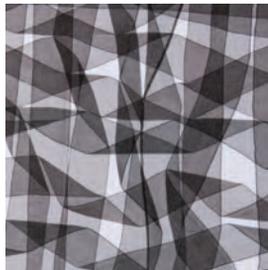
Cleo Geometric B Fortress



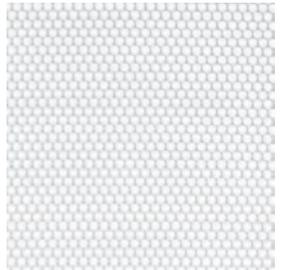
Drift Blue



Evo White



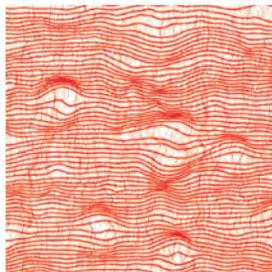
Wander Night



Pinpoint



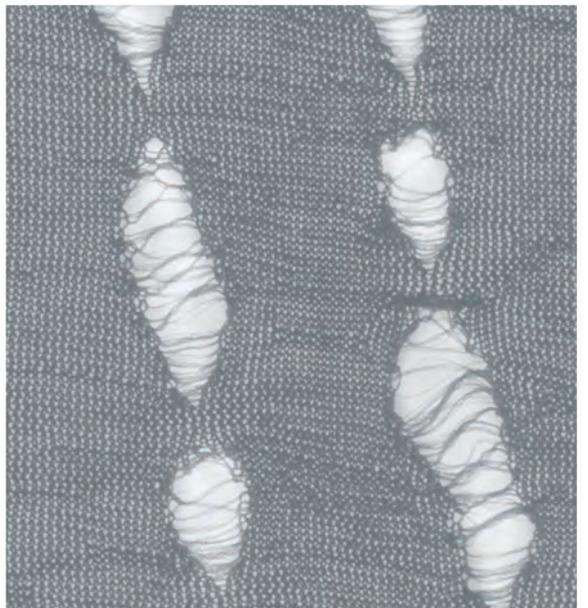
Junction



Migration Henna



Cosmic



Snag Mini Stratus



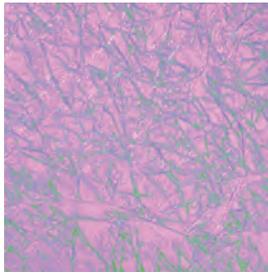
Swept Rose Gold



Bronze Weave



Quattro Carbon 2



Dichroic Solar Iced



Dichroic Lunar



Wisp Silver



Rust Forge



Pure Gold



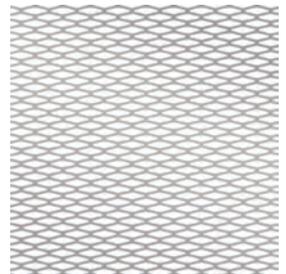
Glint Gold



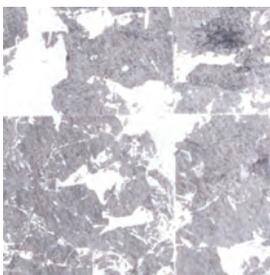
Glint Copper



Rust Oxide



Weld Silver



Gild Silver

High Resolution Printing

Choose from our curated collection of graphic images or encapsulate your own design in Varia.



Rainy Day



Labrynth



Concrete 02



Lights



Gray Oak



Ace Walnut



Waterstroke Hudson



Go Go Jest

Screen Prints

Metallic ink interlayers add elegance and flirt with dimensionality. Two colours maximum.



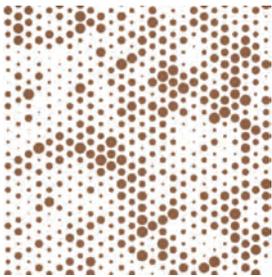
Mirror Silver Lodge



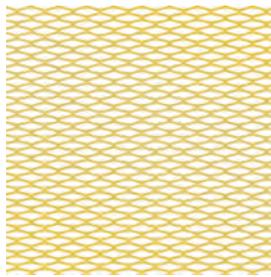
Halftone



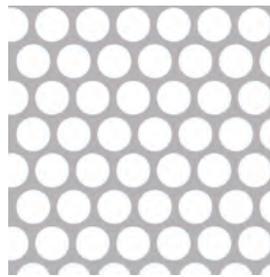
Scan



Fuse Copper



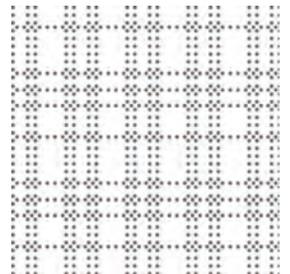
Weld Gold



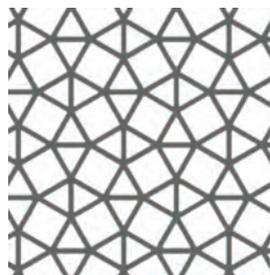
Cirque

Patterns

Surface or Interlayer print patterns are available in four scales and opacities.



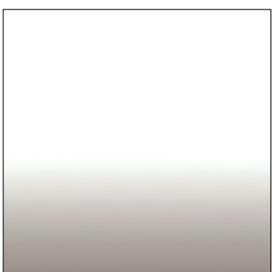
Tartan



Royal



Branch



Partial Gradient



Full Panel Gradient



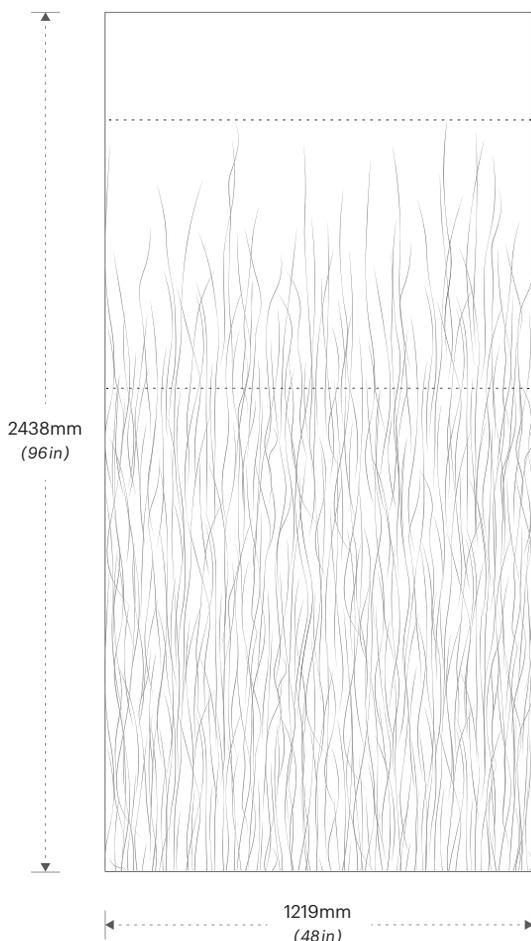
Band Gradient

Layer Options & Directionality

Add depth, directionality and density by specifying layout.

Fade

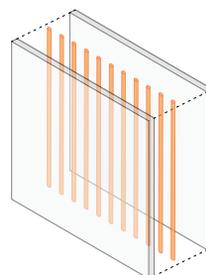
Vertical— Pattern parallel to long edge



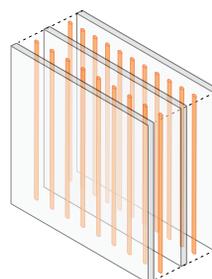
Density terminates at 2133mm or a custom specified point

Diminished density begins at 1371mm or a custom specified point

One Interlayer

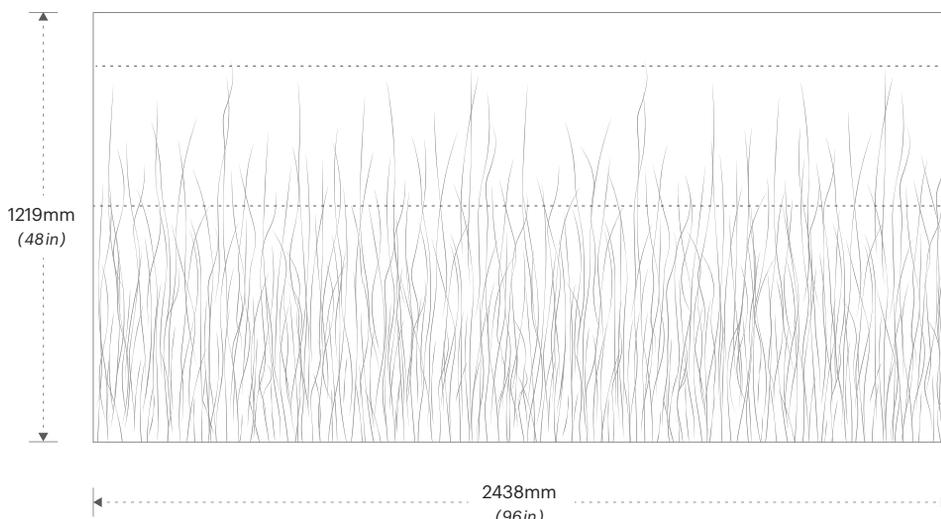


Two Interlayers



Fade

Horizontal— Pattern parallel to short edge

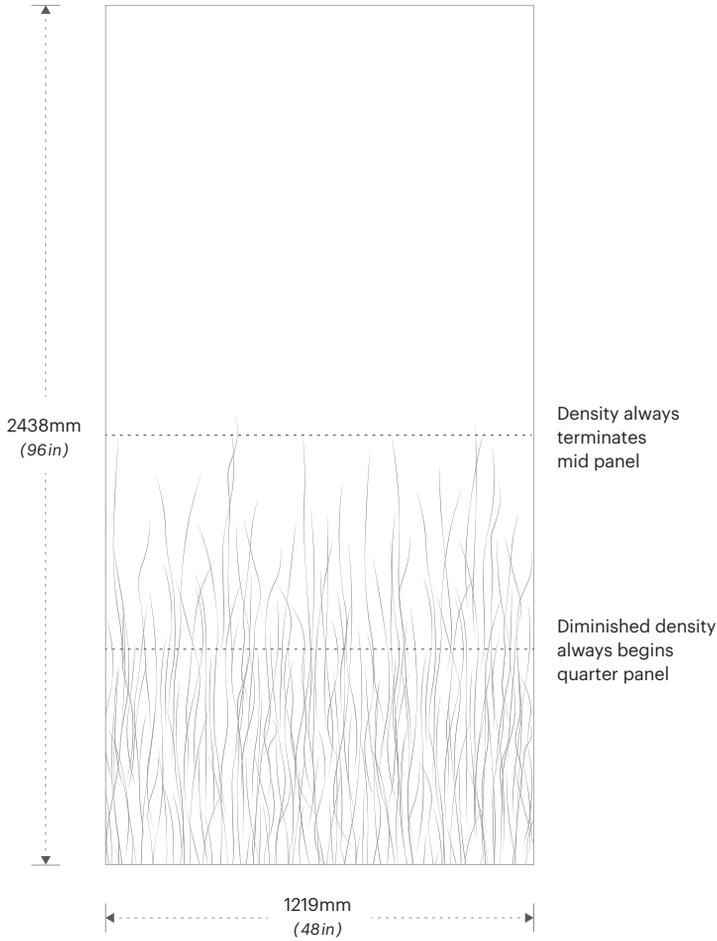


Density terminates at 1067mm or a custom specified point

Diminished density begins at 660mm or a custom specified point

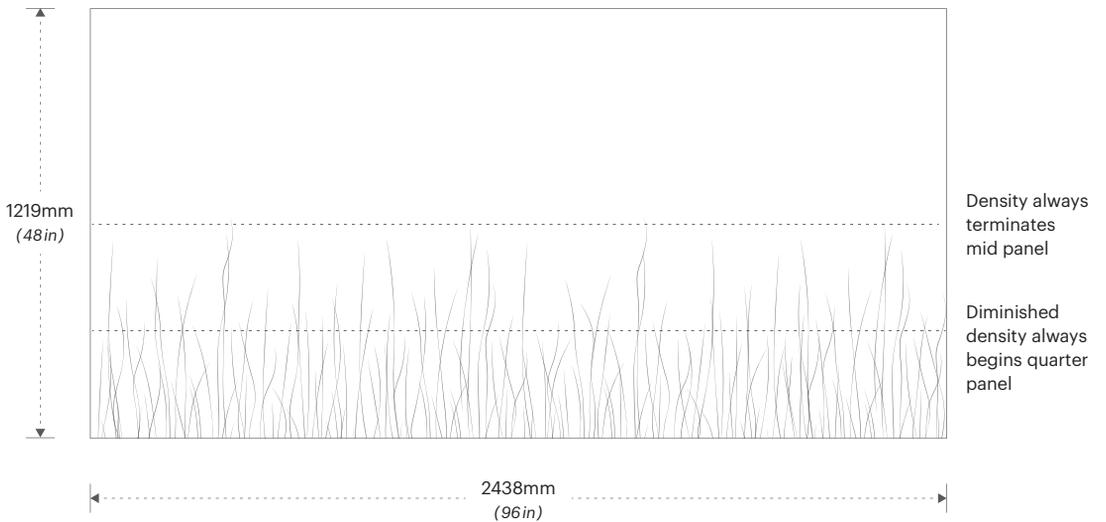
Grove

Vertical— Pattern parallel to long edge



Grove

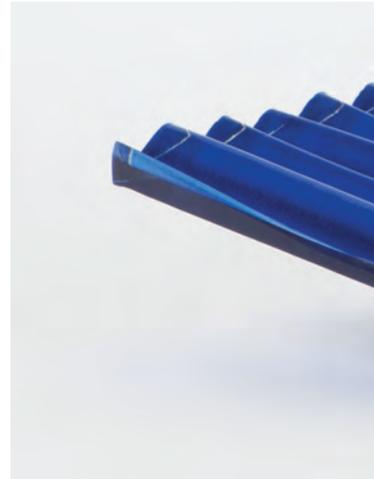
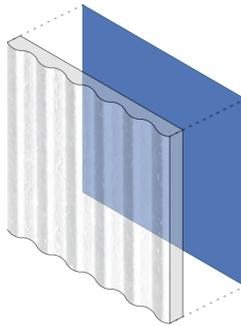
Horizontal— Pattern parallel to short edge



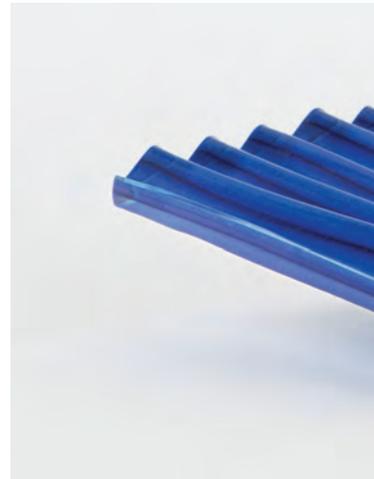
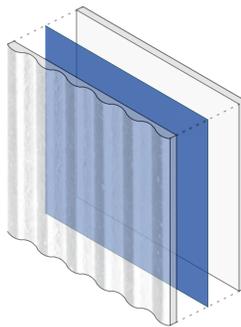
Colour Location

Depth, dimension and saturation can be created with colour layers.

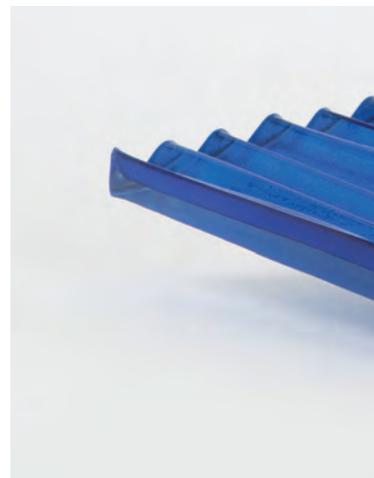
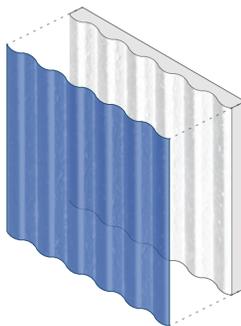
Colour on the back
[product] + [colour] (back)

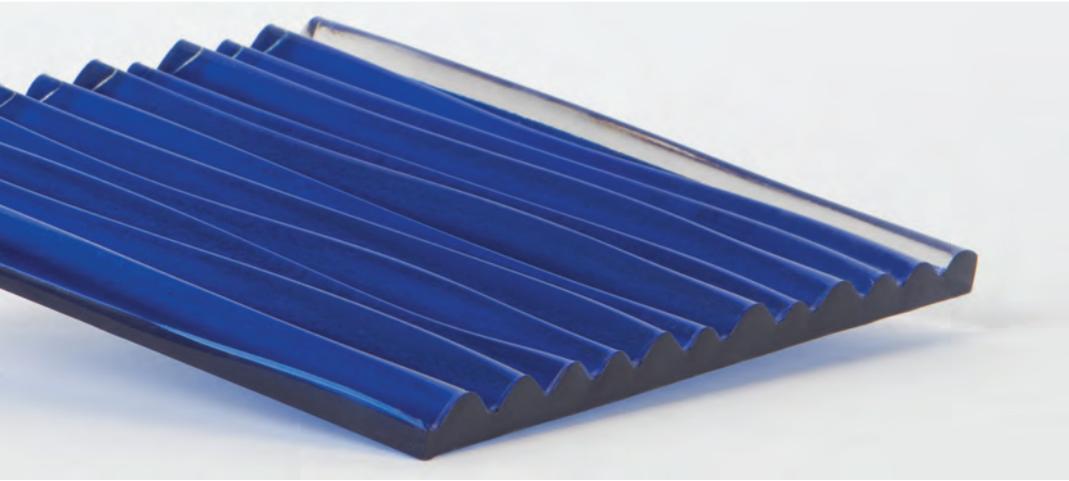


Colour in the middle
[product] + [colour] (centered)

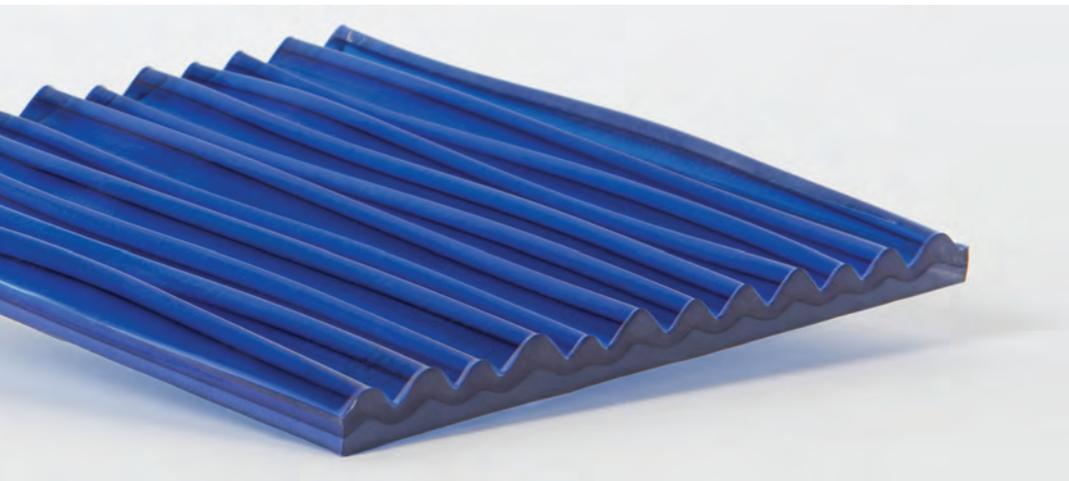


Colour on the front
[product] + [colour] (front)

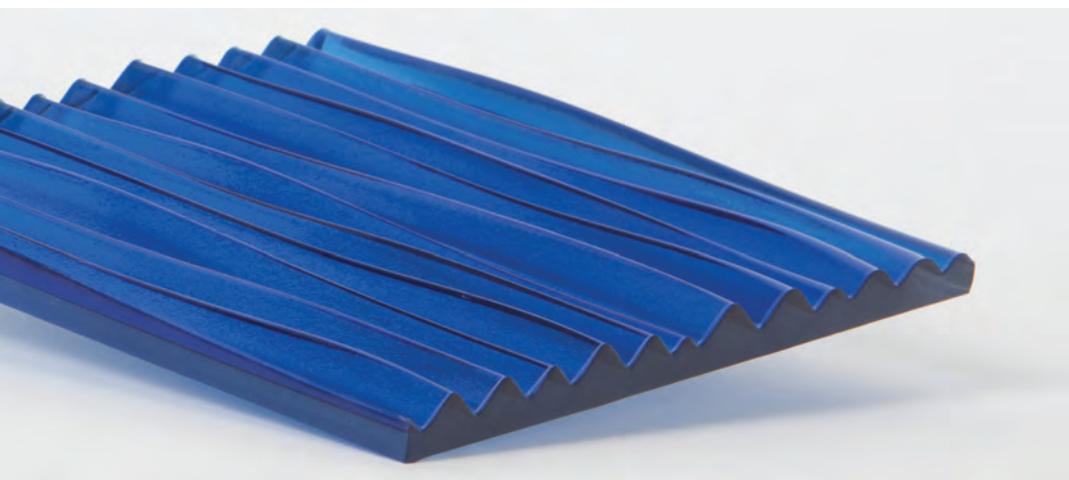




Ridge +
Cobalt
(back)



Ridge +
Cobalt
(centered)



Ridge +
Cobalt
(front)



— VARIA

250 Colours. One system.

We offer a comprehensive assortment of translucent colours for design applications. These hues can be used with Varia, Chroma and Struttura materials, select colours available in Koda XT.







Springtime Y22



Marigold Y21



Glow N13



Oat N23



Dust N61



Helium N48



Ash N49



Camel Y23



Butter Y18



Lemon N14



Biscotti N07



Sable N08



Nebulous N47



Cityscape N45



Daffodil Y10



Chirp Y20



Morning Y09



Nectar N12



Gypsum N06



Dew N24



Elephant N50



Pharaoh Y16



Daisy Y19



Mellow N16



Toasted N09



Roadside N54



Rockport N53



Thunder N51



Tiger Y15



Sunnyside Y17



Lioness N17



Khaki N22



Wren N55



Pewter N52



Porpoise N43



Couscous Y07



Melon N10



Warmstone N56



Teaberry N34



Smudge N37



Wolf N44



Drizzle N42



Butterscotch Y06



Sunrise N15



Farmer N25



Concord N35



Blush N32



Galvanize N57



Compass N36



Wafer Y24



Fawn N18



Sepia N27



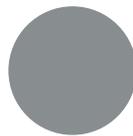
Eggplant N33



Redwood N31



Noir N58



Zeppelin N38



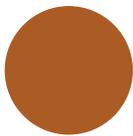
Cider Y25



Jicama N19



Bark N28



Whiskey N29



Nightshade N60



Alley N39



Cauldron N41



Syrup Y26



Almond N20



Saddle N21



Leather N30



Bittersweet N26



Meteorite N59



Gotham N40



White Out W01 5%



Down W02 15%



Ghost W03 30%



Flurry W04 50%



Vapour W05 65%



Avalanche D01 1%



Paperwhite D02 20%



Polar D04 50%



Glacier D05 70%



Powder D03 40%



Reflect E01



Titanium E02



Black Out E03



Ivory E04

— VARIA

Whites Diffusions & Effects

Control opacity, light levels and reflectiveness.

Finishes

Control scratch-resistance and translucency. All Varia finishes can be seamed and radius formed. Complex shape forming is not available on Supermatte or Patina.



Sandstone
F01



Patina
F02



Patent
F03



Vellum
F04



Supermatte
F05



Stucco
F06



Velvet
F07



Grain
F08



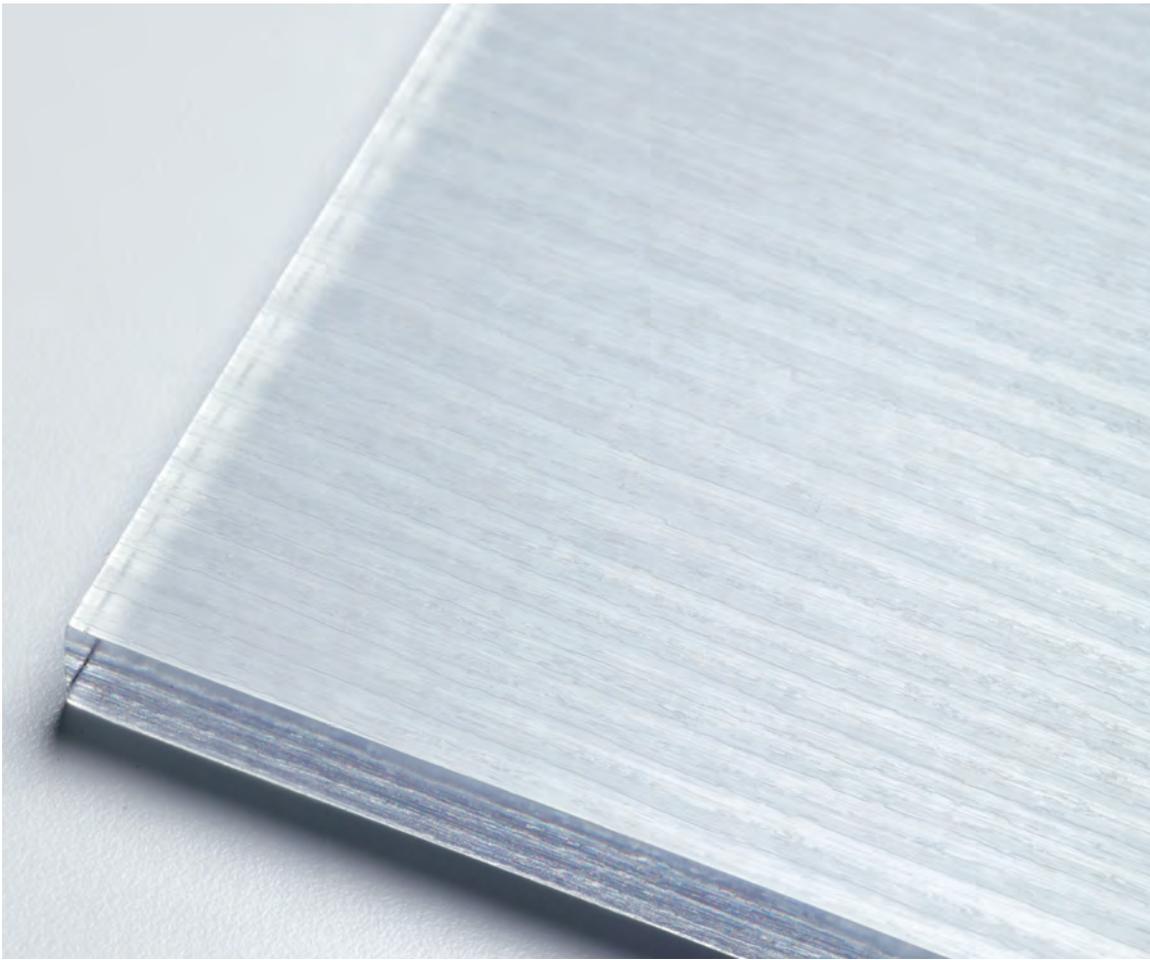
Grid
F09



Patina Plus
F13



SFX Frost
F16



STANDARD FINISHES	DURABILITY
Stucco	High
Grid	High
Sandstone	High
Vellum	Moderate
Grain	Moderate
Velvet	Moderate
Supermatte	Low
Patent	Low
Patina	Low
Patina Plus	Moderate
SFX Frost	Moderate

High Can be used in the most demanding applications, such as canopies, wall cladding, and high traffic areas, etc

Moderate Specify for all but the most demanding applications, when finish durability is a driving requirement

Low For applications where contact with people and/or objects can be minimised or eliminated, such as in ceiling features or artwork

Textures

By adding texture you can play with dimension and depth to create glistening surfaces.

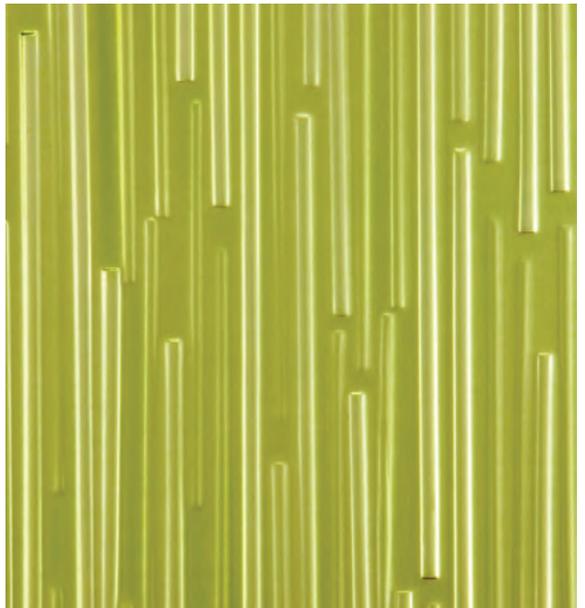
Hint textures can be applied to front and/or back of panel



Ridge



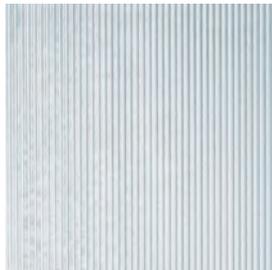
Corro Mezzo



Traffic



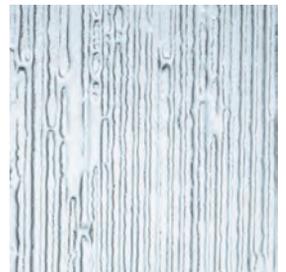
Wave



Vertu V Mini



Ice



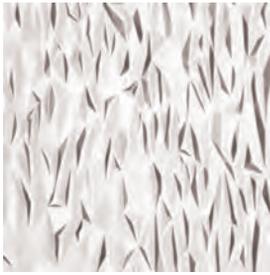
Bios



Section



Split



Fractal



Crinkle



Swim



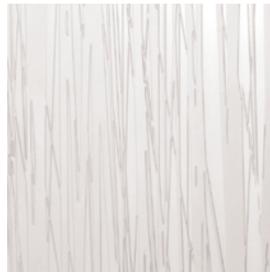
Hint Flow



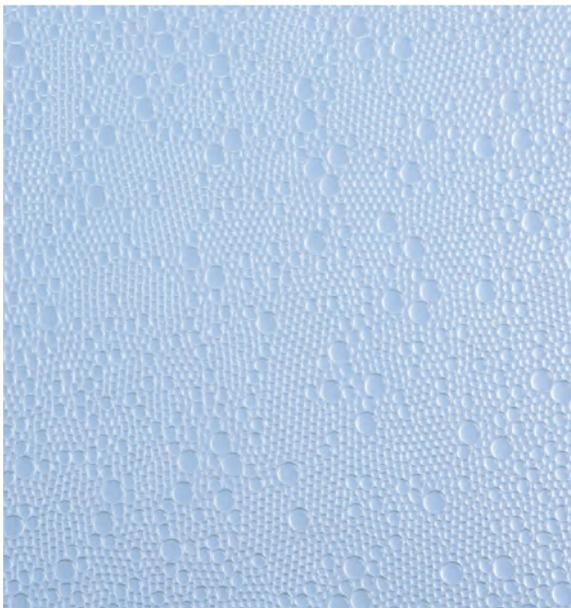
Tonic



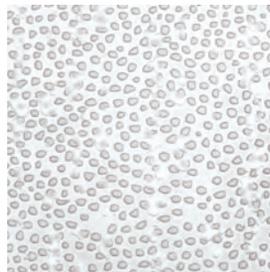
Corro Mini



Hint Rule



Pop



Hint Spotted



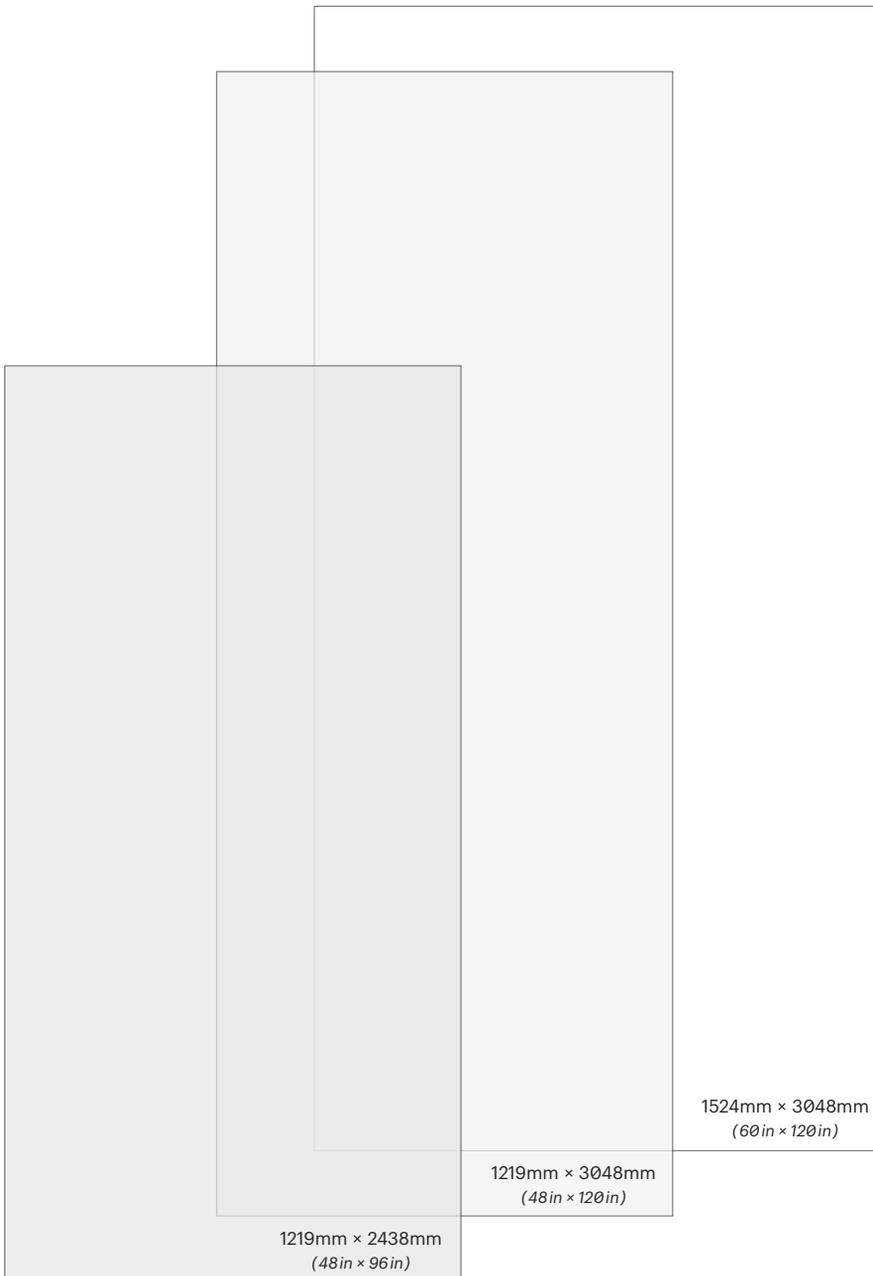
Hint Meadow



Hint Straight Up

Panel Sizes

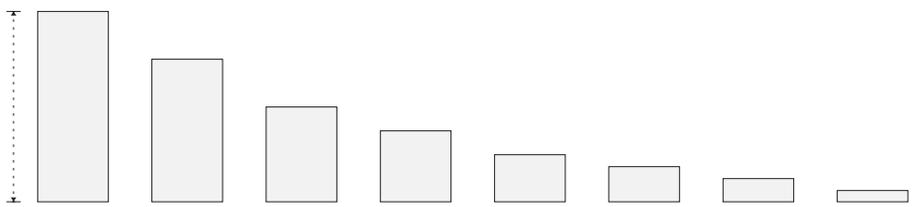
One sheet minimum order size -
only 3m² (32ft²)



Panel dimensions and squareness are subject to a 4.7mm (3/16in) tolerance.
Limited interlayer selection on panels longer than 2438mm (8ft)
Scale 1:20

Gauges & Weight

Finished gauges are dependent on layers.



Varia (scale 1:1) Gauge & Weight	25.4mm (1in)	19.05mm (3/4in)	12.7mm (1/2in)	9.5mm (3/8in)	6.35mm (1/4in)	4.76mm (3/16in)	3.18mm (1/8in)	1.59mm (1/16in)
MINIMUM ALLOWANCE Colour/Fabric Interlayer	21.6mm (0.850in)	16.5mm (0.648in)	11.1mm (0.436in)	8.2mm (0.324in)	5.4mm (0.212in)	4.3mm (0.168in)	2.6mm (0.104in)	1.3mm (0.050in)
MAXIMUM ALLOWANCE Colour/Fabric Interlayer	26.9mm (1.059in)	19.5mm (0.768in)	12.9mm (0.508in)	9.8mm (0.384in)	6.6mm (0.260in)	4.9mm (0.192in)	3.4mm (0.132in)	1.8mm (0.070in)
MINIMUM ALLOWANCE All Other Interlayers	21.6mm (0.850in)	15.7mm (0.618in)	10.5mm (0.412in)	7.7mm (0.304in)	5.0mm (0.196in)	3.9mm (0.155in)	2.5mm (0.098in)	Not Available
MAXIMUM ALLOWANCE All Other Interlayers	27.7mm (1.091in)	20.3mm (0.798in)	14.3mm (0.562in)	11.0mm (0.434in)	7.8mm (0.306in)	5.2mm (0.205in)	3.5mm (0.138in)	Not Available
WEIGHT FLUX kg/m ² (lb/ft ²)	32.2kg/m² (6.6lb/ft ²)	24.4kg/m² (5.0lb/ft ²)	16.1kg/m² (3.3lb/ft ²)	12.2kg/m² (2.5lb/ft ²)	8.3kg/m² (1.7lb/ft ²)	5.9kg/m² (1.2lb/ft ²)	3.9kg/m² (0.8lb/ft ²)	2.0kg/m² (0.4lb/ft ²)

All gauges are subject to a tolerance.

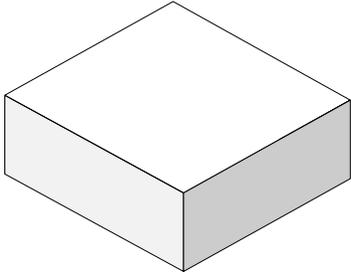
- +8mm (1/32in) Hint Textures
- +4.7mm (3/16in) Embossed Textures



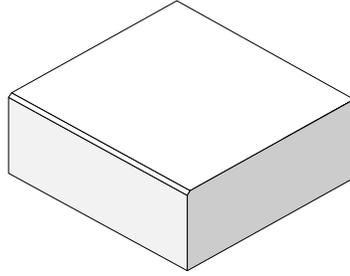
EuroClass B-s1, d0
Gauges 4.7mm, 6.3mm & 9.5mm (3/16in, 1/4in & 3/8in)
with non-combustible or no interlayer.

Edge Type

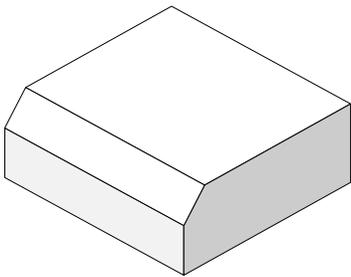
Choose the edge type best suited to your application.



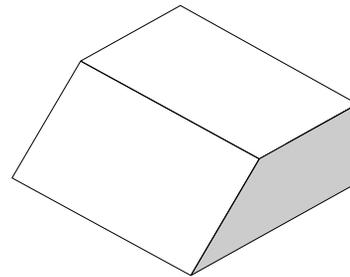
Squared



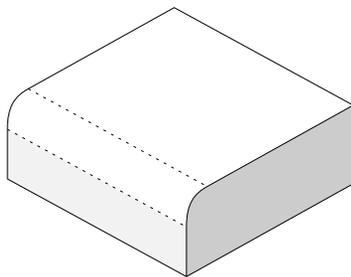
Eased



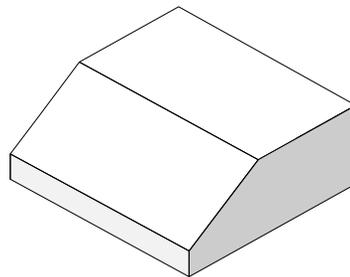
Chamfered



Miter



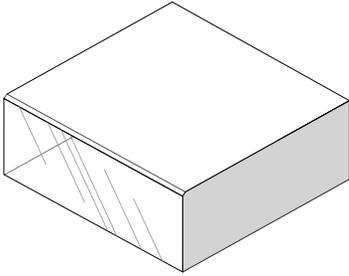
Radius



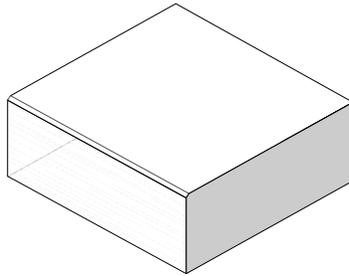
Knife Edge

Edge Finishes

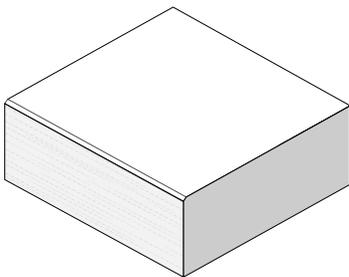
Choose an edge finish appropriate for your design.



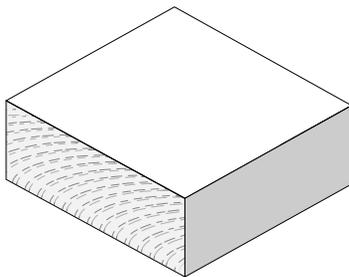
Flame Polish



Solvent Polish



Sanded

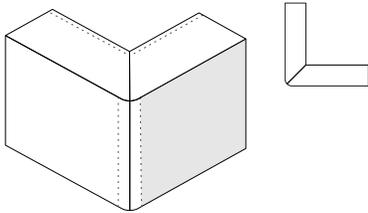


Saw Cut

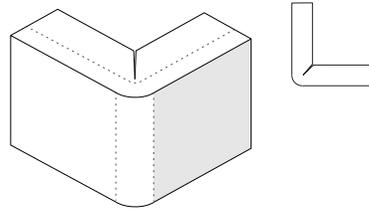
Joinery & Seams

Factory made corners

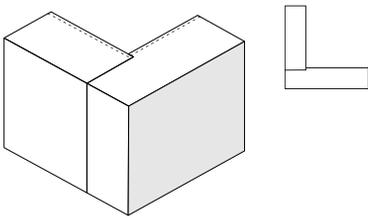
Colour used in your layup can affect your corner or seam selection.



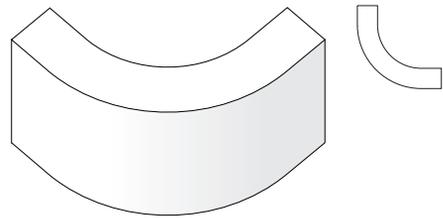
Miter UV Glue Seam
Shown with 3mm radius
6.3mm (1/4in) minimum gauge



Line Bend Seam
Dotted line represents offset interlayer
Corner radius can vary with gauge, layup, and depth of cut.
Not available with all layups.



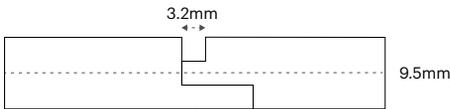
Light Seam
Dotted line represents colour layer.
Default for lit applications.



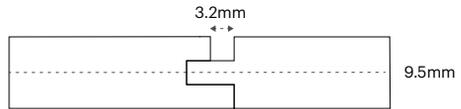
Radiused
Moulded, heat-formed corner.
Not available with all layups.

Non-glued, loose seams

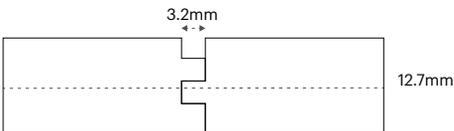
Please contact your 3form materials consultant for assistance with proper seam selection.



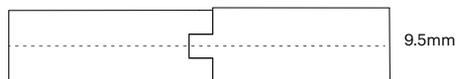
Half-Lap Quirk
 Minimum 9.5mm gauge
 Joint 9.5mm - quirk 3.2mm
 Backlit only
 Access good



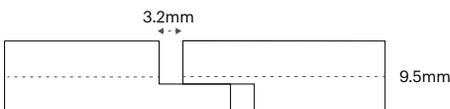
Tongue & Groove Quirk
 Minimum 9.5mm gauge
 Joint 6.4mm - quirk 3.2mm
 Unlit - frontlit - backlit
 Access limited



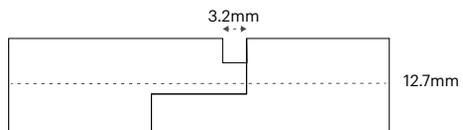
Tongue & Groove Quirk
 Minimum 12.7mm gauge
 Joint 3.2mm - quirk 3.2mm
 Backlit only
 Access limited



Tongue & Groove
 Minimum 9.5mm gauge
 Joint 3.2mm (25.4mm gauge - joint 6.4mm)
 Gauge variation may be noticeable
 Backlit only
 Access limited



Interior Expansion Joint
 Minimum 9.5mm gauge
 Joint 9.5mm - overlap 6.4mm - gap 3.2mm
 Use when material is bound in all directions
 For applications $\geq 3048\text{mm}$ (10ft) in length or width



Half-Lap Quirk
 12.7mm Gauge
 Joint 12.7mm - quirk 3.2mm
 Backlit only
 Access good





— VARIA

Cutting

Our skilled fabrication team can saw, CNC or laser cut anything from simple shapes to intricate details, and complex designs.



Saw

Simple rectangular shapes with an unfinished edge detail.



CNC

3mm (1/8in) fixed cut depth
4.7mm (3/16in) min. cut width
1.5mm min. radius on artwork
Machine marks visible on frosted edges



Laser

6.3mm (1/4in) min gauge
Not available w/ Supermatte F05
Edges are polished as result of laser

— VARIA

Cold Bending

Varia can be cold bent on-site with moderate single radius applications.

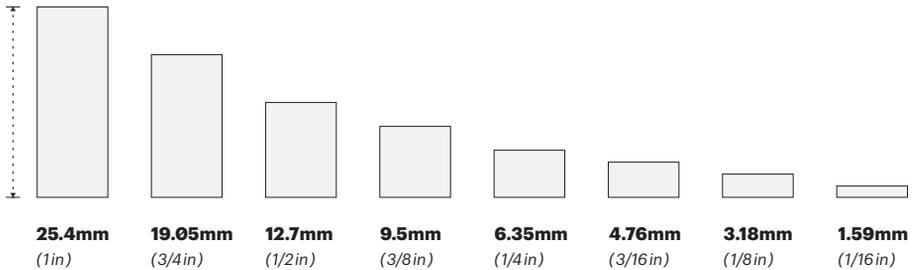


Heat Forming

Varia can be molded to create completely unique shapes and forms.

Guideline: Minimum radius =
6x gauge depending on interlayer.
Reflect cannot be heat-formed.





Varia (scale 1:1)
Cold Bending
& Heat Forming

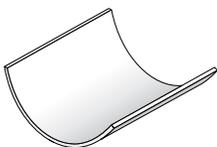
Cold Bending Minimum Radii

VARIA	2540mm (100in)	1905mm (75in)	1270mm (50in)	940mm (37in)	635mm (24in)	483mm (19in)	305mm (12in)	178mm (7in)
DICHROIC / REFLECT	6350mm (250in)	4775mm (188in)	3175mm (125in)	2388mm (94in)	1600mm (63in)	1194mm (47in)	813mm (32in)	Not Available
WOOD	5080mm (200in)	3810mm (150in)	2540mm (100in)	1905mm (75in)	1270mm (50in)	950mm (37in)	610mm (24in)	Not Available

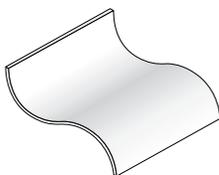
Heat Forming Minimum Radii

Restrictions can apply based on interlayer

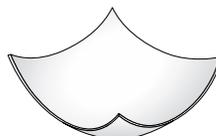
VARIA Simple Mold	152.4mm (6in)	114.3mm (4.5in)	76.2mm (3in)	57.2mm (2.25in)	Thinner gauge heat forming must be reviewed
VARIA Male/Female Mold	76.2mm (3in)	57.2mm (2.25in)	38.1mm (1.5in)	25.4mm (1in)	Thinner gauge heat forming must be reviewed
DICHROIC / WOOD / HIGH RESOLUTION	Restrictions may apply— Interlayers affect the radius and maximum sheet size <i>Example: Timber can only be heat formed one direction at a minimum radius of 1219mm (48in)</i>				
COMPLEX SHAPES & CURVES	Available— Contact 3form for review				



Single Radius



Multiple Radii



Complex Shapes



Chroma

This beautiful and durable material can be saturated with luminous colour and is ideal for horizontal work surfaces.



Irving Convention Center
Irving, TX, USA

Chroma
Ghost + Lighting



— CHROMA

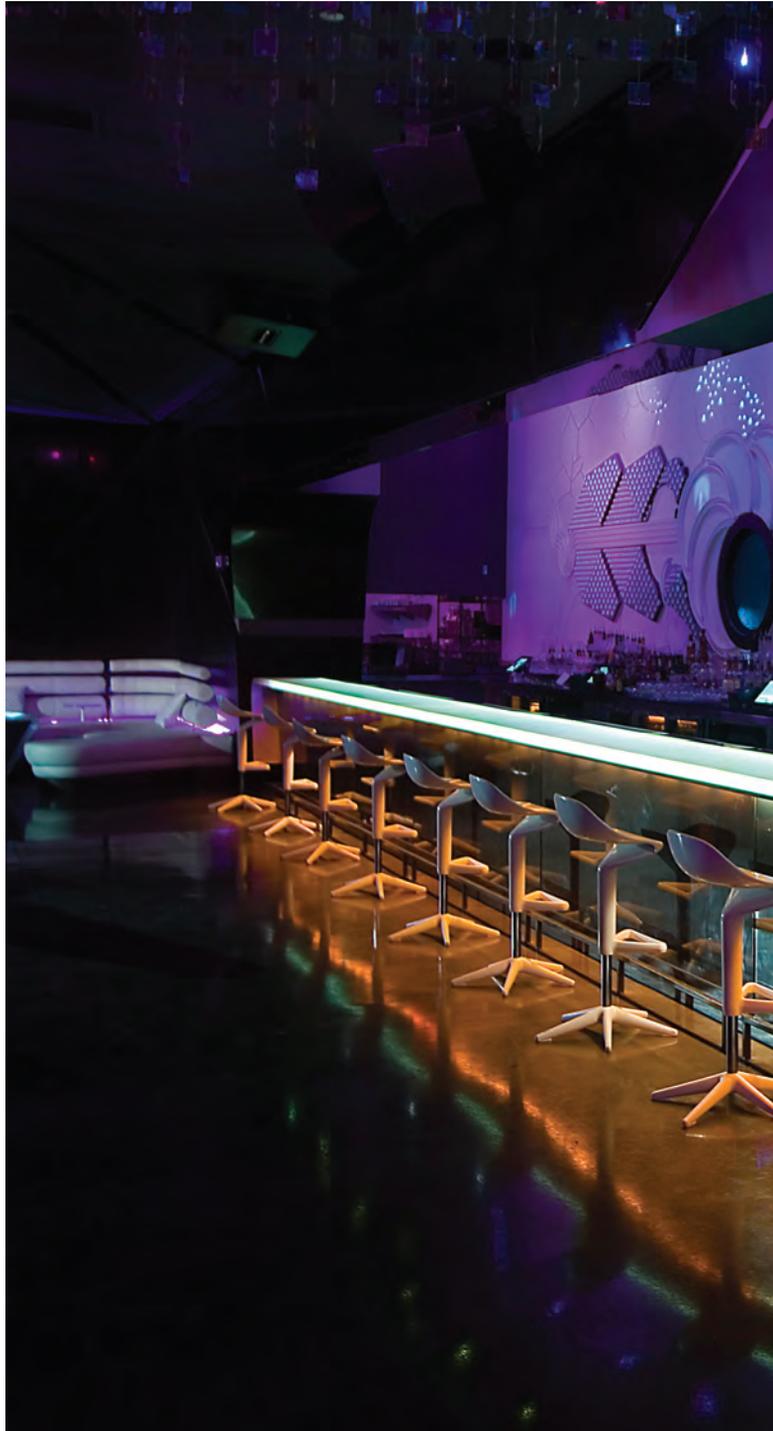
Make it Glow

A beautiful, luminous,
and durable material for
glowing applications.

— CHROMA

Formable

Design soft curves to crisp angles, with heat-forming and seaming options.





Revolution Lounge
Las Vegas, NV, USA

Chroma
Ghost, Heat-Formed

— CHROMA

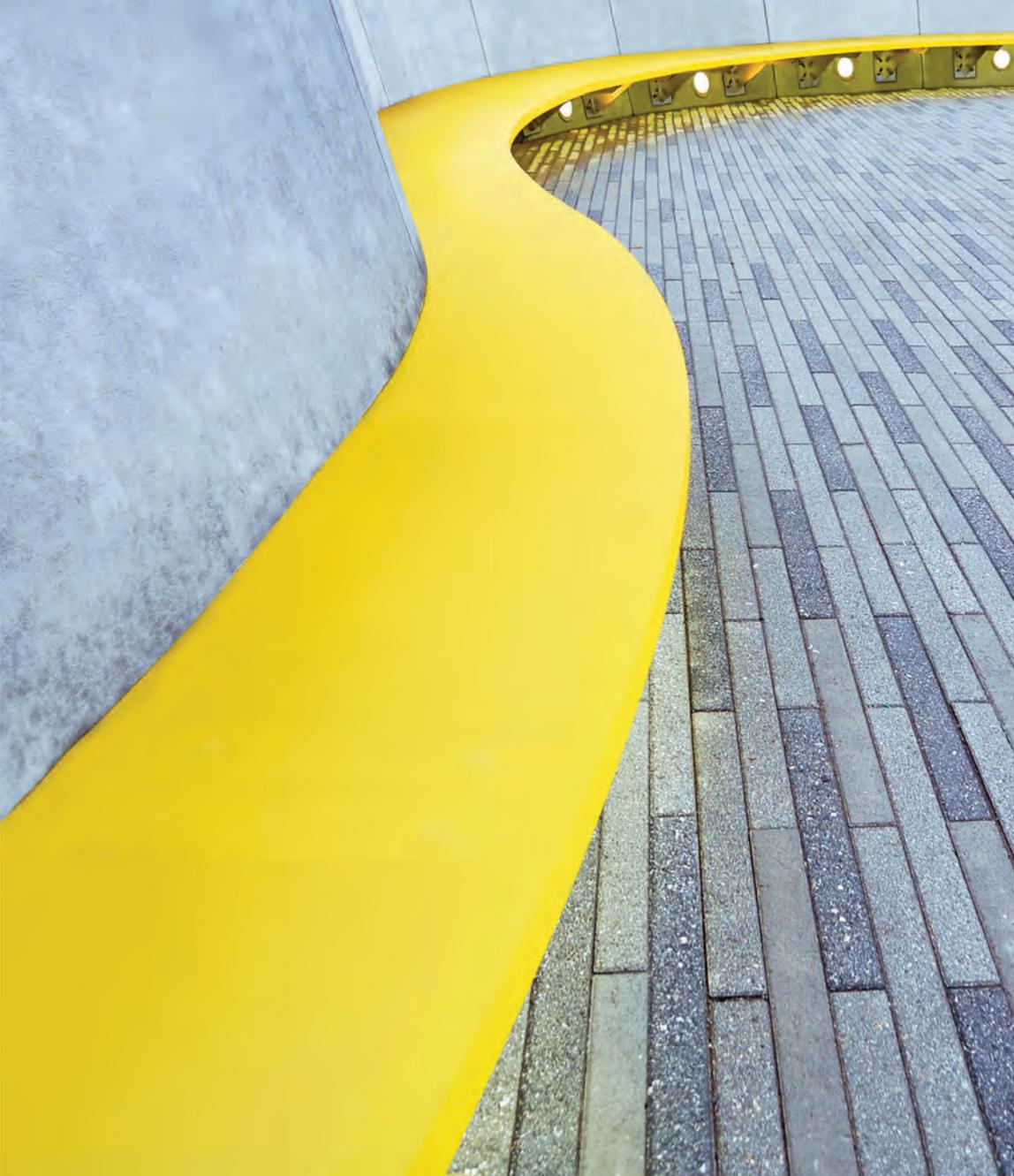
Exterior

Enhance the exterior and create new spatial experiences by illuminating architectural elements.



Canal Park
Washington DC, USA

Chroma XT
Ghost



Cornell University Bench
Ithaca, New York, USA

Chroma
XT, Marigold



— CHROMA

Brand Continuity

Create memorable branding with bright lobby features from light boxes to reception desks.



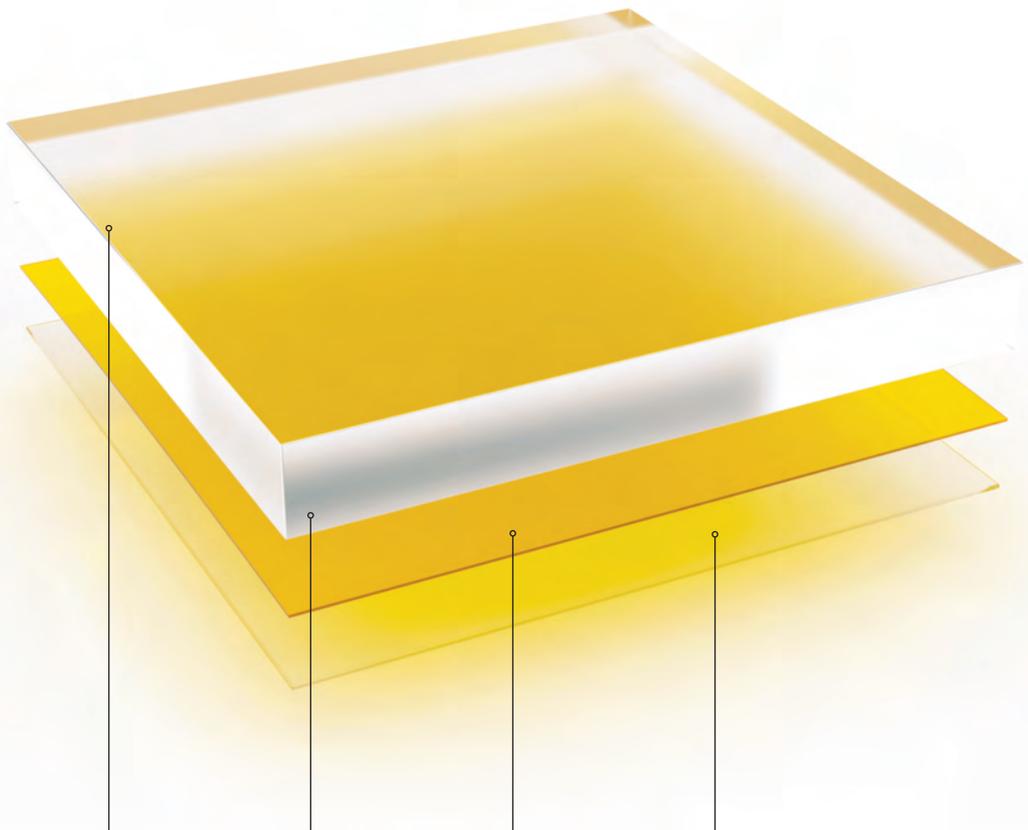
Xango
Lehi, UT, USA

Chroma
Vitamin C + Ghost

— CHROMA

Design Choices

1. Finish
2. Colour
3. Interlayer
4. Effects



Finish
(front and back)

Colour
(front, centered
and/or back)

Interlayer
(centered)

White, Diffusion or Effect
(front, centered
and/or back)



Chroma Panels Shown:
Finish (Vellum F04, front)
Colour (Vitamin C, back)
Finish (Vellum F04, back)

Finish (Vellum F04, front)
Colour (Surf, back)
Finish (Vellum F04, back)

Interlayers

The optical clarity of Chroma allows unparalleled ability to view detailed interlayers.



Dichroic Iced
(Concept Sample 1117)



Optic Double Layer
(Concept Sample 0517)



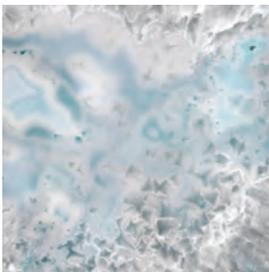
Vector



Starcrossed Dream Double Layer
(Concept Sample 1116)

High Resolution Printing

Choose from our curated collection of graphic images or encapsulate your own design in Chroma.



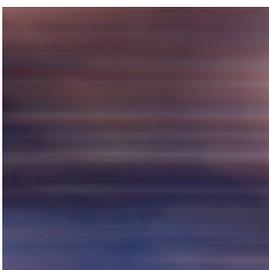
Geode



Spindrift



Waterstroke Canyon



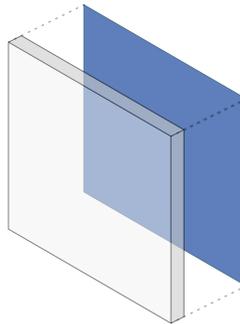
Blur

Colour Location

Depth, dimension and saturation can be created with colour layers. Control opacity, light levels and reflectiveness with Whites Diffusions and Effects.



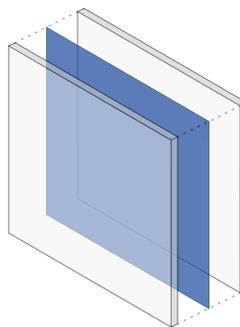
Colour on the back
[product] + [colour] (back)



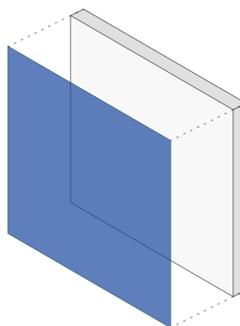
Available in 250 colours
shown on pg 30-33

Whites Diffusions & Effects
shown on pg 34-35

Colour in the middle
[product] + [colour] (centered)



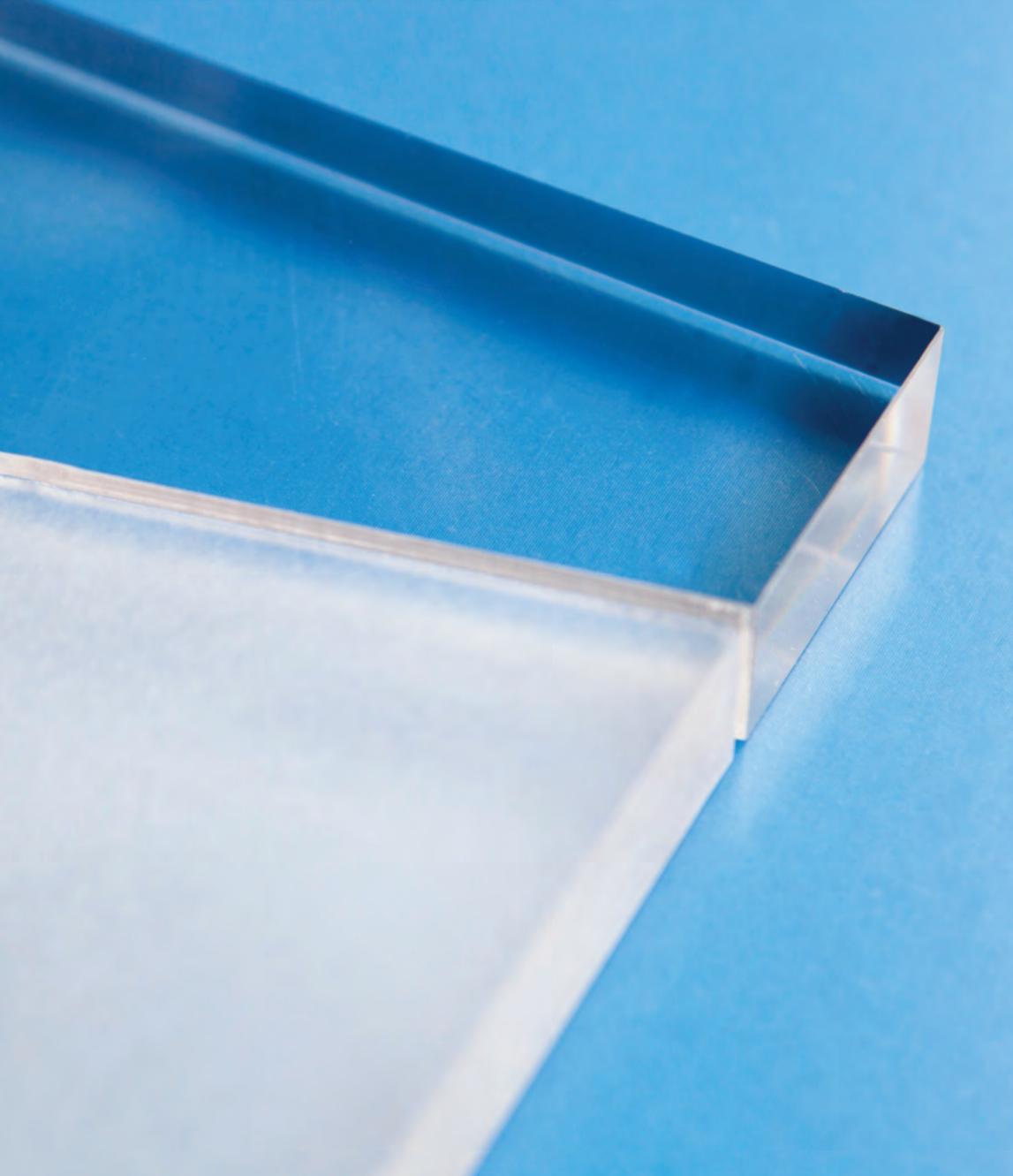
Colour on the front
[product] + [colour] (front)



— CHROMA

Finishes

Our finishes give you the ability to control scratch-resistance and translucency.





Vellum
F04



Patent
F03



Renewable Matte
F10



Polish
F11

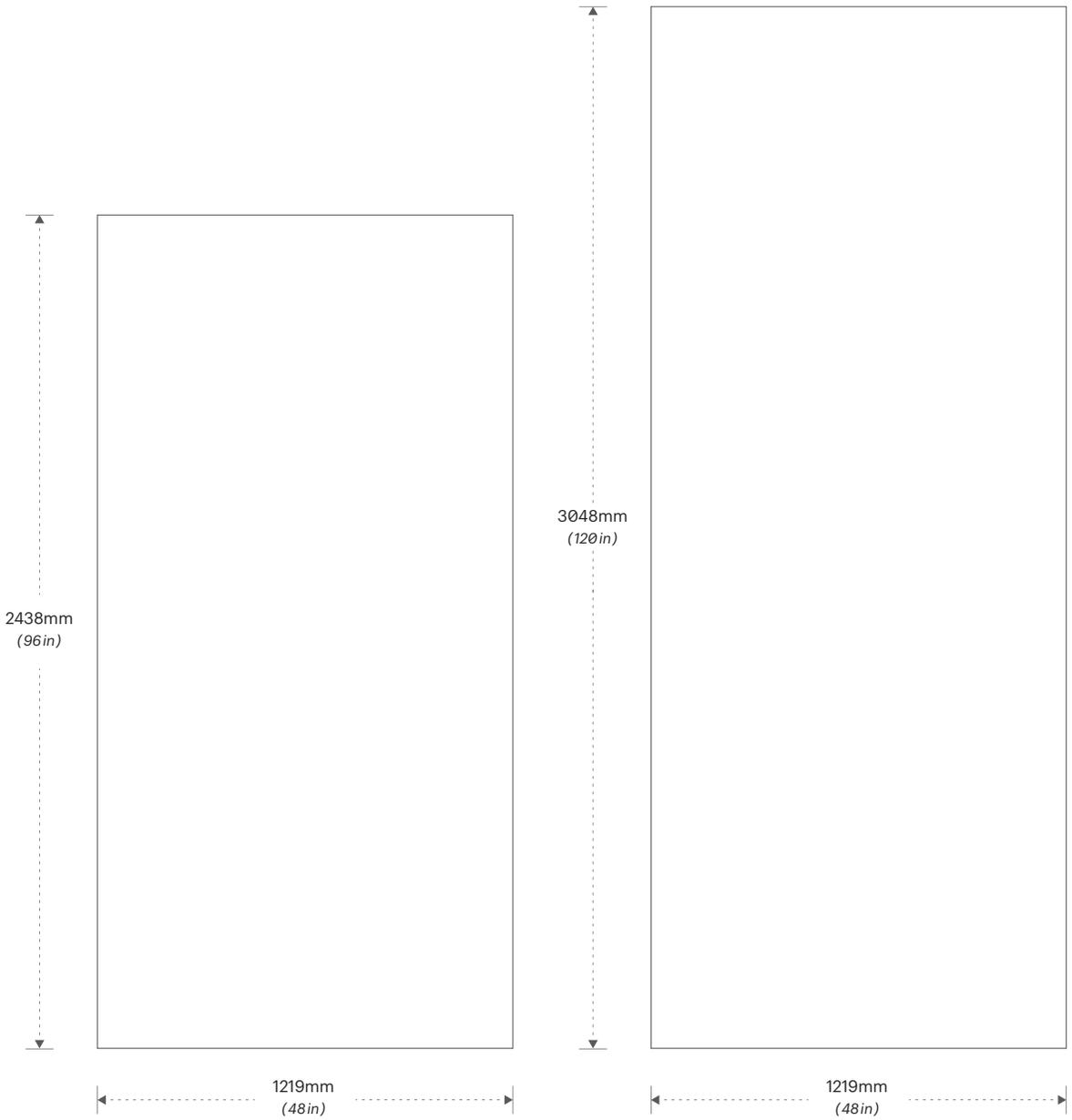
Renewable Matte F10 can be seamed,
radius and multiplane formed.

STANDARD FINISHES	DURABILITY
Vellum	High
Patent	Low
Renewable Matte	Moderate
Polish	Moderate

- High* Can be used in the most demanding applications, such as canopies, wall cladding, and high traffic areas, etc
- Moderate* Specify for all but the most demanding applications, when finish durability is a driving requirement
- Low* For applications where contact with people and/or objects can be minimised or eliminated, such as in ceiling features or artwork

Panel Sizes

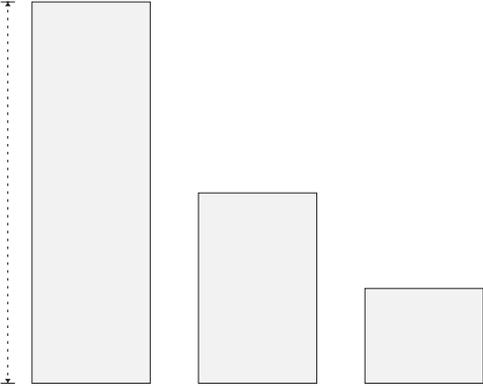
One sheet minimum order size -
only 3m² (32ft²)



Panel dimensions and squareness are subject to a 3.1mm (1/8in) tolerance.
50.8mm (2in) thickness not available in large size.
Scale 1:20

Gauges & Weight

Finished gauges are dependent on layers.



Chroma (scale 1:1) Gauge & Weight	50.8mm (2in)	25.4mm (1in)	12.7mm (1/2in)
MINIMUM ALLOWANCE Colour / High-Resolution / XT	45.7mm (1.800in)	22.9mm (0.900in)	11.4mm (0.450in)
MAXIMUM ALLOWANCE Colour / High-Resolution / XT	55.9mm (2.200in)	27.9mm (1.100in)	14.9mm (0.585in)
WEIGHT FLUX kg/m ² (lb/ft ²)	60.5 kg/m² (12.4lb/ft ²)	30.2 kg/m² (6.2lb/ft ²)	15.1 kg/m² (3.1lb/ft ²)

All gauges are subject to a tolerance.

+1.5mm (1/16in) Renewable Matte F10 (on back)
+3mm (1/8in) Reflect E01

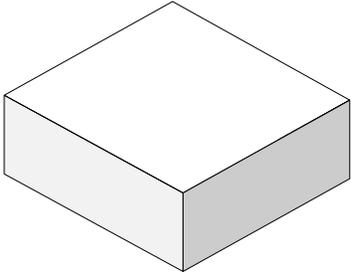
+1.9kg/m² (0.4lb/ft²) Chroma XT
+3.8kg/m² (0.8lb/ft²) Reflect E01



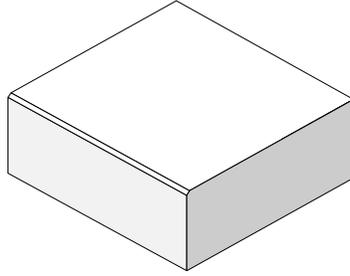
EuroClass E

Edge Type

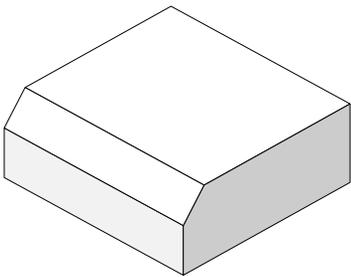
Choose the edge type best suited to your application.



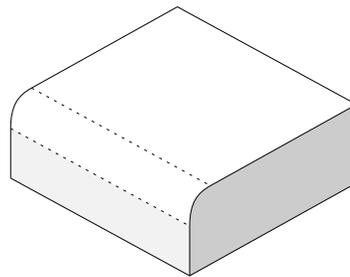
Squared



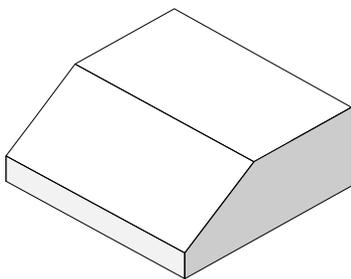
Eased



Chamfered



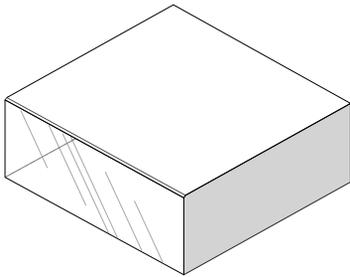
Radius



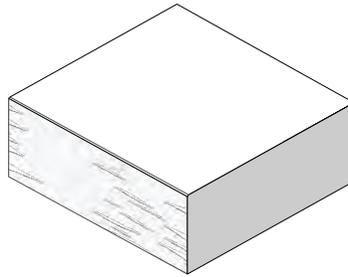
Knife Edge

Edge Finishes

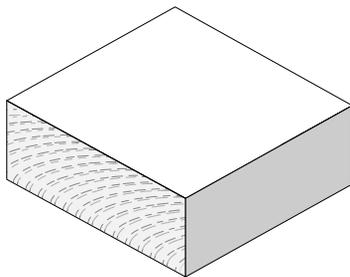
Choose an edge finish appropriate for your design.



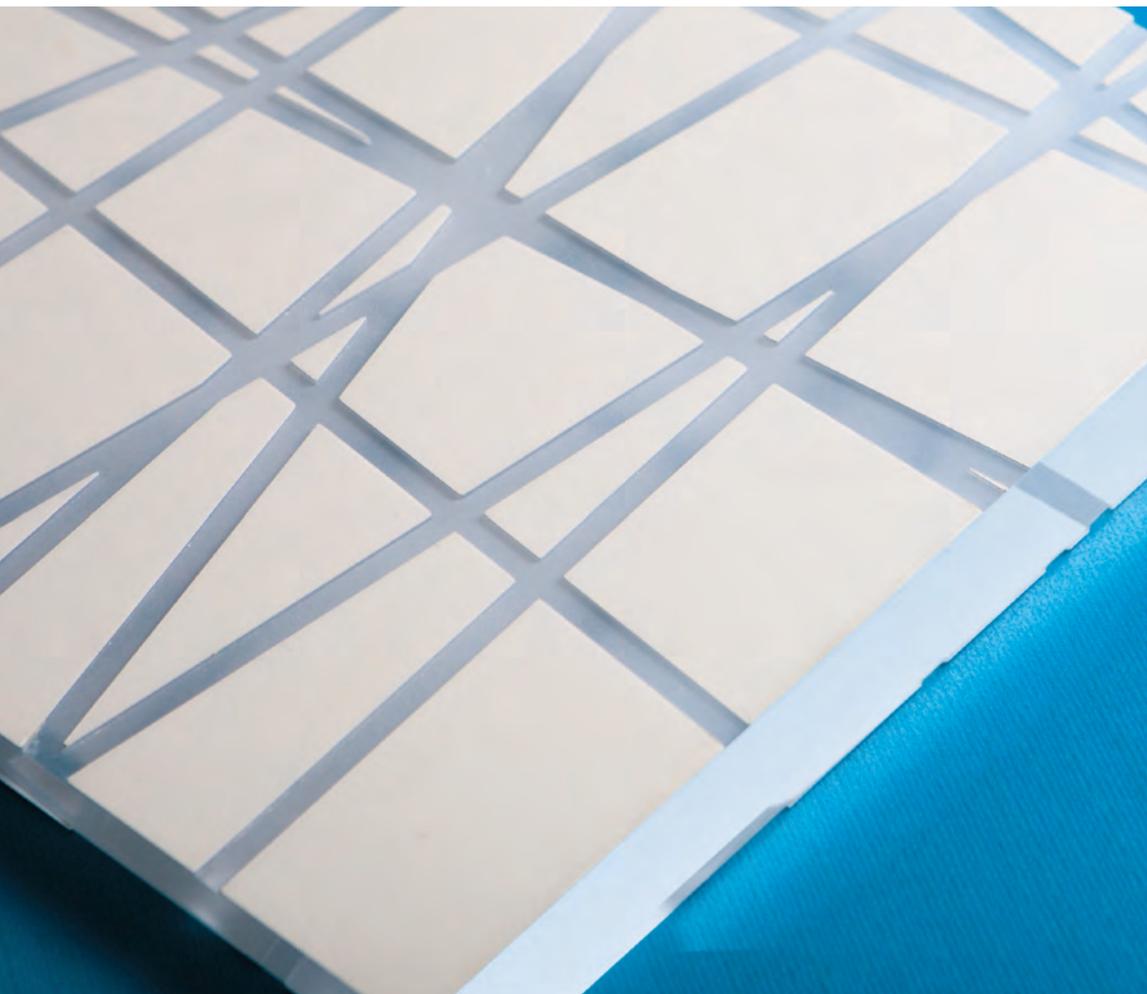
Polished



Sanded Renewable Matte



Saw Cut



— CHROMA

CNC Etching

3mm (1/8in) fixed cut depth (front or back)
4.7mm (3/16in) min. cut width
Frosted, machine marks visible
1.5mm min radius on artwork
Heat-formable



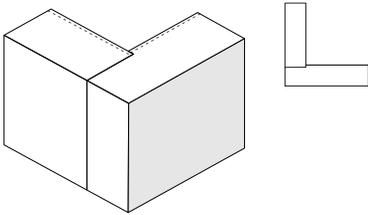
Laser Etching

Nearly smooth 0.00254mm (.0001in)
White frosted appearance
Great for logos and branding
Heat-formable

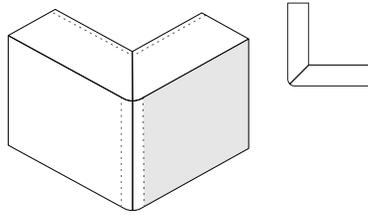
Joinery & Seams

Factory made corners

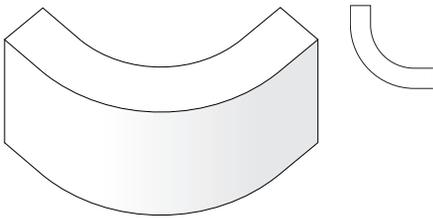
Colour used in your layup can affect your corner or seam selection.



Light Seam
Dotted line represents colour layer.
Default for lit applications

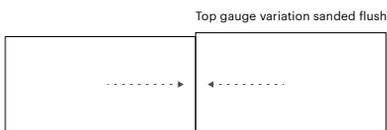


Mitre Seam
Shown with 3mm radius
12.7mm (1/2in) gauge



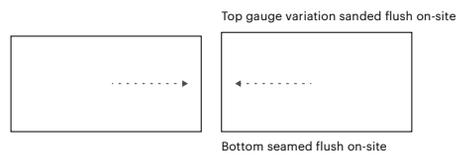
Radiused
Moulded, heat-formed corner.
Not available with all layups.

Factory adhered seams



Structural Seams
Large features
Renewable matte finish only
90° cut only
No W01, W03, W05, D05

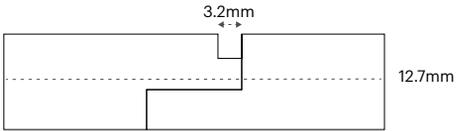
Field adhered seams



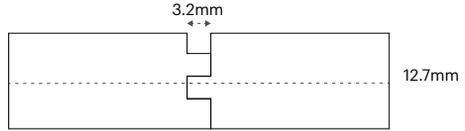
Field Seam Prep
For on-site seaming

Non-glued, loose seams

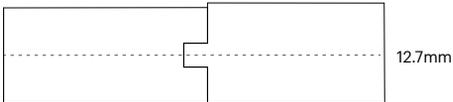
Please contact your 3form materials consultant for assistance with proper seam selection.



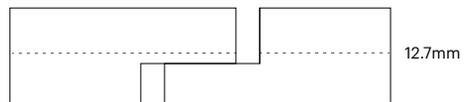
Half-Lap Quirk
 12.7mm gauge
 Joint 12.7mm - quirk 3.2mm
 Backlit only
 Access good



Tongue & Groove Quirk
 12.7mm gauge
 Joint 3.2mm - quirk 3.2mm
 Unlit, frontlit, backlit
 Access limited



Tongue & Groove
 12.7mm gauge
 Joint 3.2mm (25.4mm gauge - joint 6.4mm)
 Gauge variation may be noticeable
 Backlit only
 Access limited



Interior Expansion Joint
 12.7mm gauge
 Joint 12.7mm - overlap 9.5mm - gaps 3.2mm
 Use when material is bound in all directions
 For applications $\geq 3048\text{mm}$ (10ft) in length or width



Exterior Expansion Joint
 12.7mm ; 25.4mm gauge
 Joint 25.4mm - Overlap 15.9mm - Gaps 9.5mm
 Allows expansion and contraction

— CHROMA

Cutting

Our skilled fabrication team can cut everything from simple shapes to complex designs.



Saw

Simple rectangular shapes with an unfinished edge detail.



CNC

4.7mm (3/16in) min. cut width
1.5mm min. radius on artwork 12.7mm (1/2in)
6.4mm min radius on artwork 25.4mm (1in) & 50.8 (2in)
Edge frosted



Laser

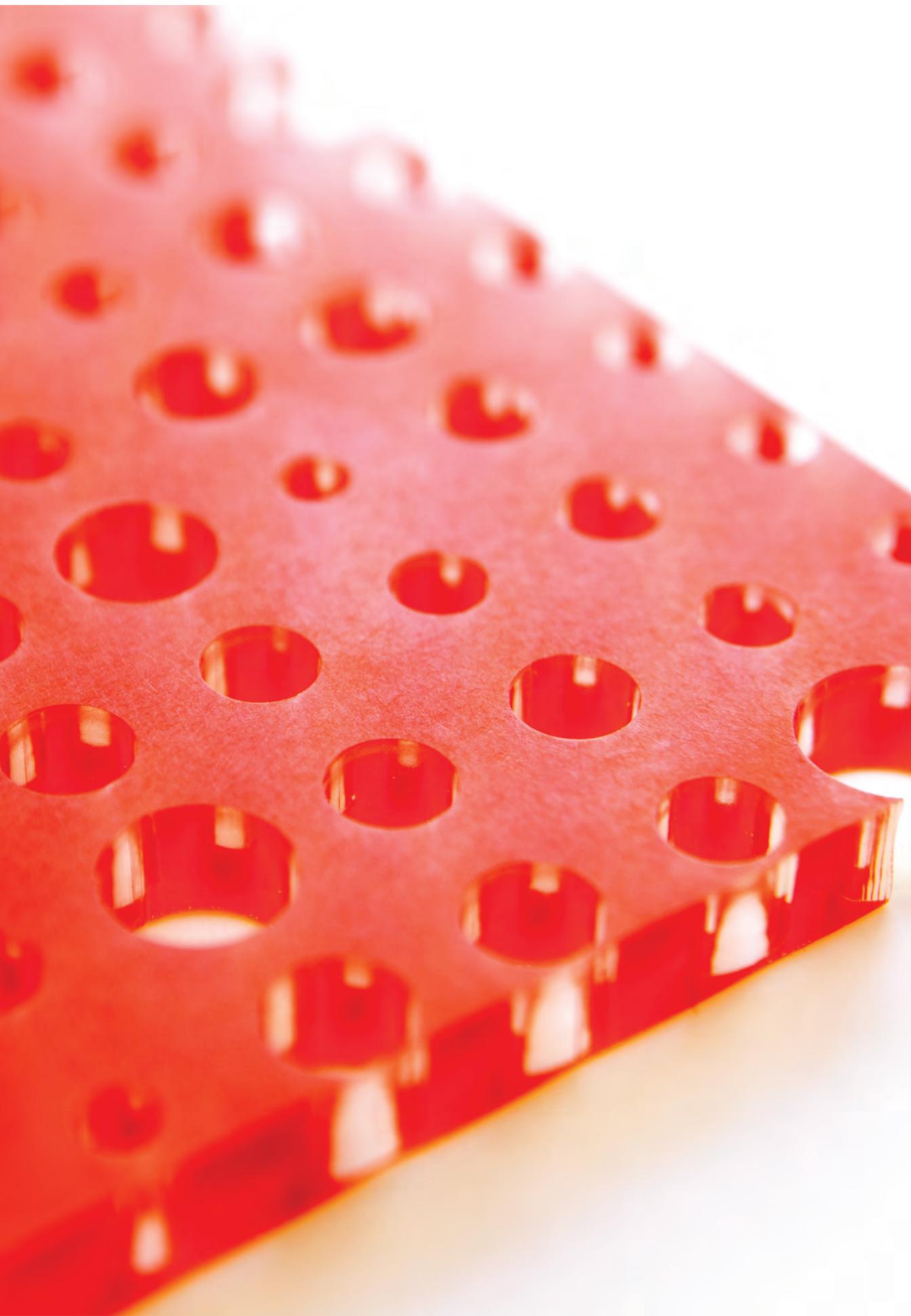
Only 12.7mm (1/2in) gauge
Edges are polished as result of laser



Water Jet

No water wicking Interlayers
Edge frosted





Cold Bending

Chroma 12.7mm (1/2in) gauge can be cold bent on-site in moderate single radius applications. Not recommended for exterior applications.

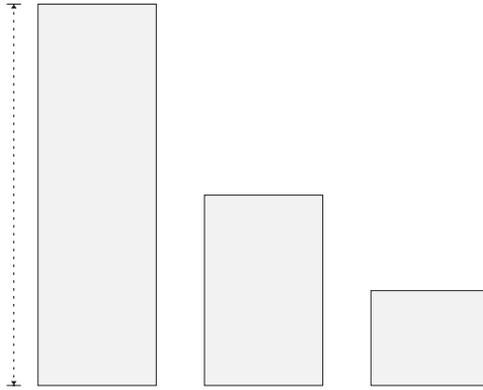


Heat Forming

Chroma can be molded to create completely unique shapes and forms.

Reflect cannot be heat-formed.





Chroma (scale 1:1)
Cold Bending
& Heat Forming

50.8mm
(2in)

25.4mm
(1in)

12.7mm
(1/2in)

Cold Bending Minimum Radii

Not recommended for Chroma XT

CHROMA	Not Available	Not Available	5715mm (225in)
---------------	---------------	---------------	--------------------------

Heat Forming Minimum Radii

Not available for Chroma Reflect

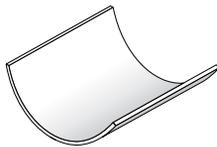
CHROMA	304.8mm (12in)	203.2mm (8in)	101.6mm (4in)
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**DICHROIC / WOOD /
HIGH RESOLUTION**

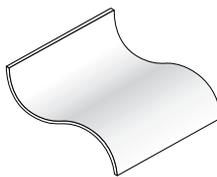
Restrictions may apply— Interlayers affect the radius and maximum sheet size
Example: High Resolution print can only be heat formed one direction

**COMPLEX SHAPES
& CURVES**

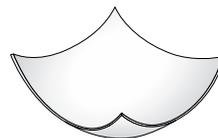
Available— Contact 3form for review



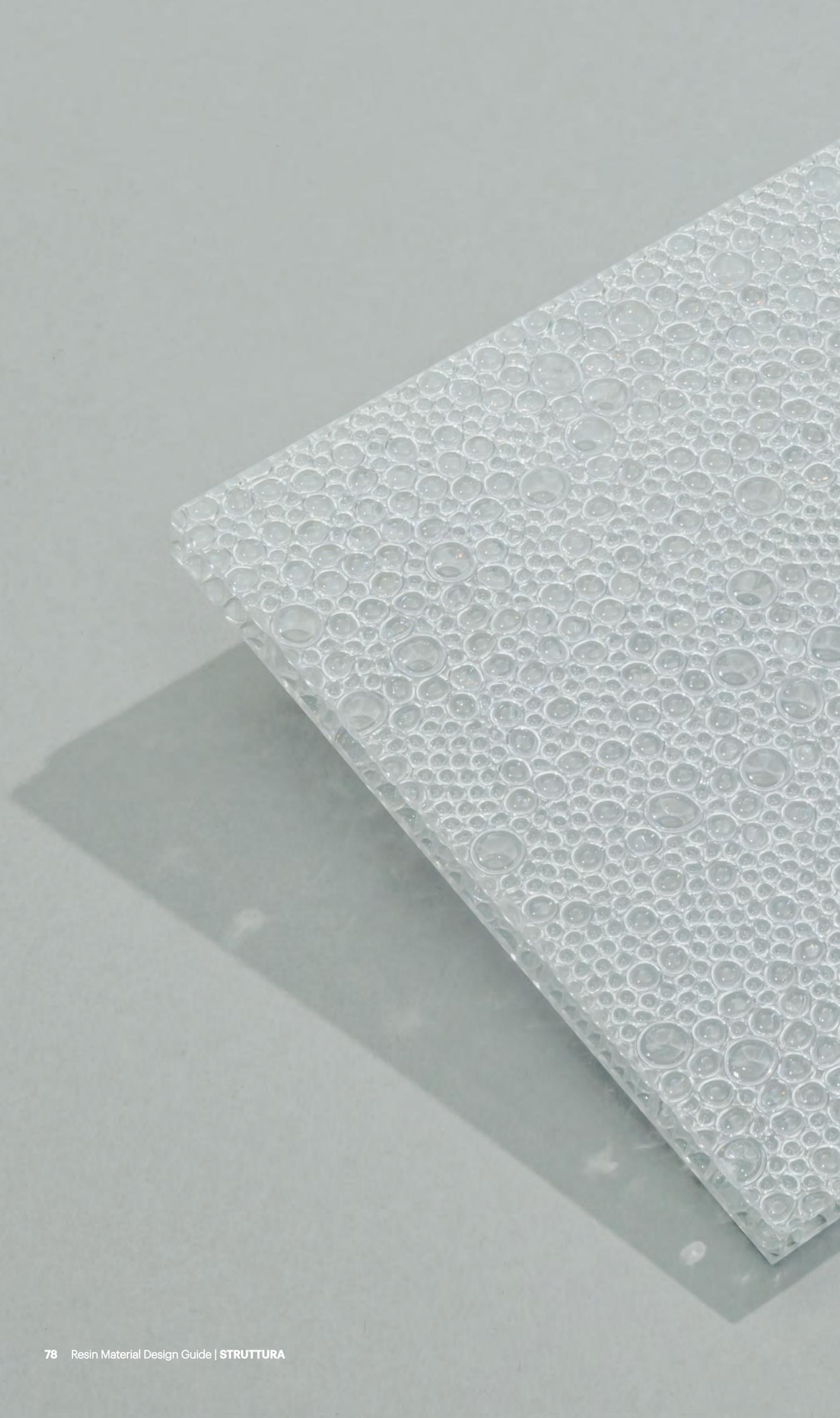
Single Radius



Multiple Radii



Complex Shapes





Struttura

The Struttura collection offers superior structural capabilities, while providing stunning lightweight design options.



— STRUTTURA

Lightweight

Enhance your space with this translucent lightweight material.



Stallergenes Greer
London, UK

Struttura
Float Large + Sable + Blush



Musées de la Civilisation
Québec, Canada

Struttura
Duo Large + Marigold

— STRUTTURA

Strong

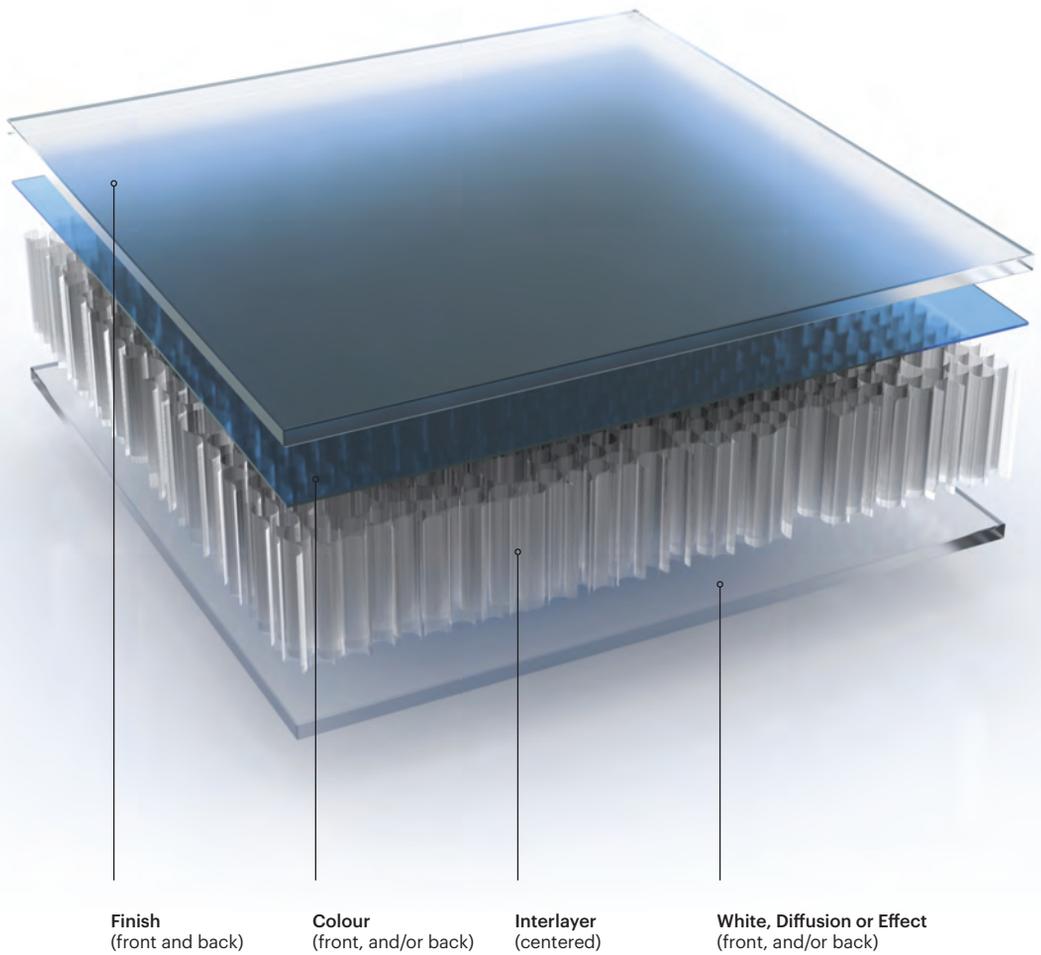
Struttura's rigidity is great for sliding doors, partitions, and ceiling features.



— STRUTTURA

Design Choices

1. Finish
2. Colour
3. Interlayer
4. Effects

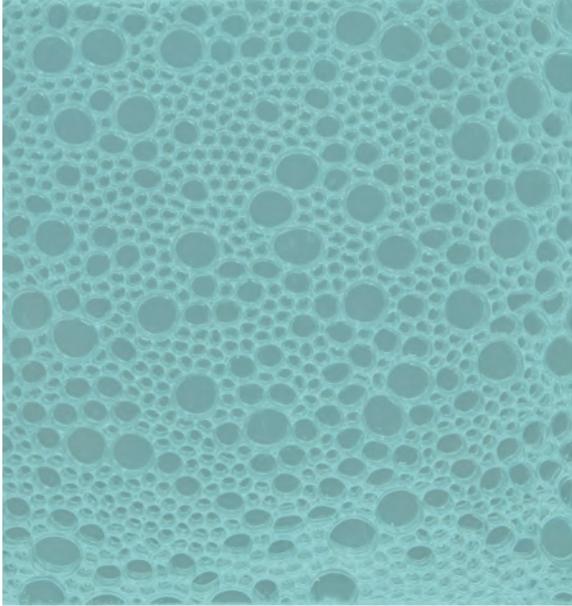




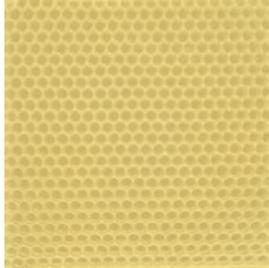
Struttura Panel Shown:
Finish (Patent F03, front)
Colour (Midnight B52, front)
Interlayer (Fizz)
Finish (Patent F03, back)

Interlayers

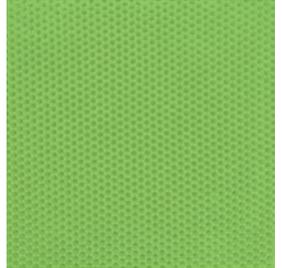
These dimensional, honeycomb like hollow interlayers provide privacy and translucency.



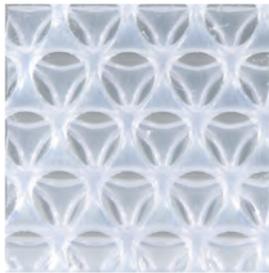
Fizz



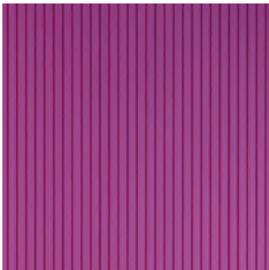
Float Large



Float Small



Pep



Duo



Duo Large

Colour Location

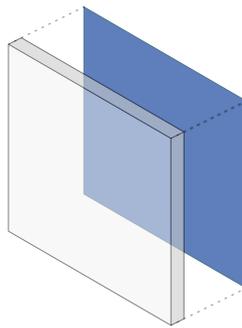
Depth, dimension and saturation can be created with colour layers. Control opacity and light levels with Whites, Diffusions and Effects.



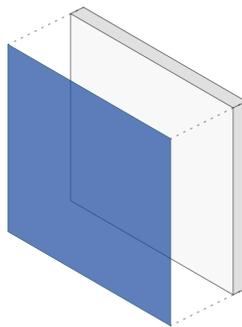
Available in 250 colours shown on pg 30-33

Whites Diffusions & Effects shown on pg 34-35

Colour on the back
[product] + [colour] (back)



Colour in the front
[product] + [colour] (front)



Finishes

Our finishes give you the ability to control scratch-resistance and translucency.



Sandstone
F01



Vellum
F04



Velvet
F07



Patina Plus
F13



Patina
F02



Patent
F03



Supermatte
F05



Stucco
F06



Grain
F08



Grid
F09



SFX Frost
F16



Hammered
F17

STANDARD FINISHES	DURABILITY
Stucco	High
Grid	High
Sandstone	High
Vellum	Moderate
Grain	Moderate
Velvet	Moderate
Supermatte	Low
Patent	Low
Patina	Low
Patina Plus	Moderate
SFX Frost	Moderate
Hammered	Moderate

High Can be used in the most demanding applications, such as canopies, wall cladding, and high traffic areas, etc

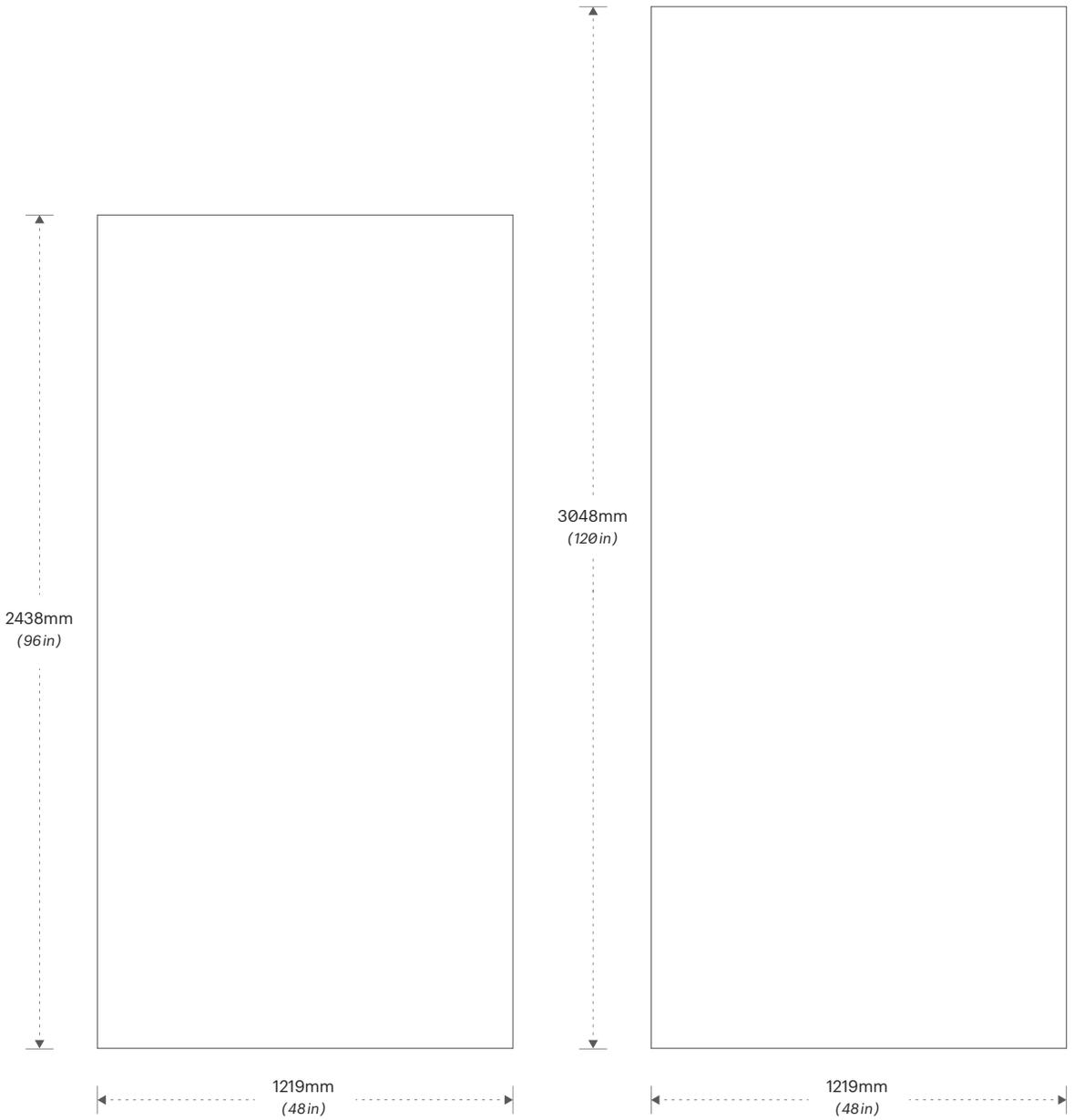
Moderate Specify for all but the most demanding applications, when finish durability is a driving requirement

Low For applications where contact with people and/or objects can be minimised or eliminated, such as in ceiling features or artwork

Pep only available in Patent F03
Duo only available in Hammered F17

Panel Sizes

One sheet minimum order size -
only 3m² (32ft²)



Panel dimensions and squareness are subject to a 4.7mm (3/16in) tolerance.

Only clear Duo available in large size.

Scale 1:20

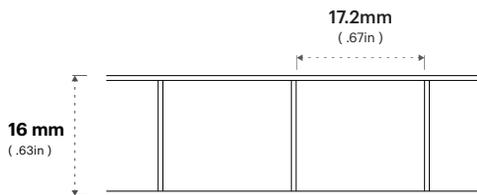
Gauges & Weight

Finished gauges are dependent on layers.

					
Struttura (scale 1:1) Gauge & Weight	15.88mm (5/8in) Fizz / Float	9.5mm (3/8in)	19.05mm (3/4in) Pep	16mm (5/8in) Duo	6.1mm (1/4in)
MINIMUM ALLOWANCE	13.9mm (0.550in)	7.6mm (0.300in)	17.1mm (0.675in)	16mm (0.630in)	6.1mm (0.240in)
MAXIMUM ALLOWANCE	17.7mm (0.700in)	11.4mm (0.450in)	19.8mm (0.780in)		
WEIGHT FLUX** kg/m ² (lb/ft ²)	8.64kg/m² (1.77lb/ft ²)	8.00kg/m² (1.64lb/ft ²)	15.62kg/m² (3.2lb/ft ²)	0.25kg/m² (0.54lb/ft ²)	0.12kg/m² (0.27lb/ft ²)

All gauges are subject to a tolerance.
Reflect E01 +3.2mm (1/8in)

Duo

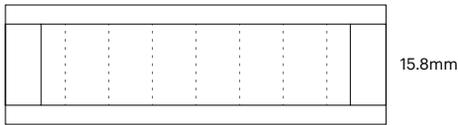


scale 1:1

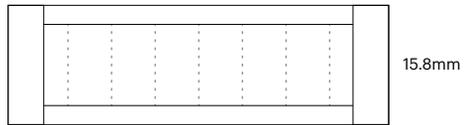
Edge Type

Choose the edge type best suited to your application.

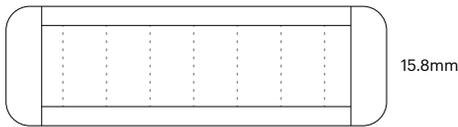
Inset, Outset & Radiused not available on Duo.



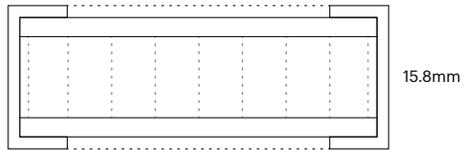
Inset
Colour capped edge



Outset
Colour capped edge



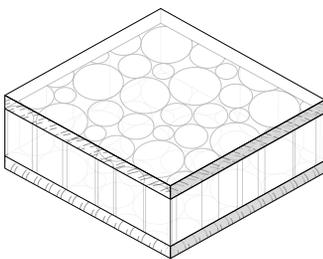
Rounded Outset
Colour capped edge



U-Edge
Anodised aluminium frame

Edge Finishes

Choose an edge finish appropriate for your design.

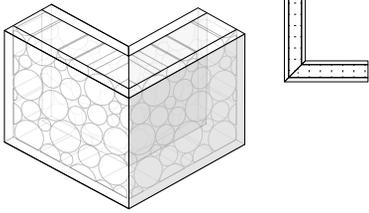


Saw Cut

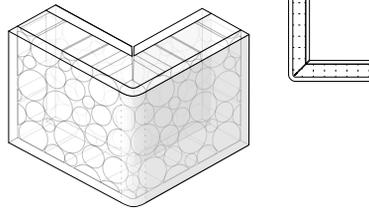
Joinery & Seams

Factory made corners

Colour used in your lay up can affect your corner or seam selection.

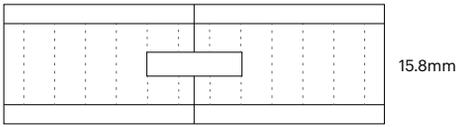


Miter Seam
Recommended for angled corners



Line Bend
Recommended for angled corners
Corner radius can vary with gauge and depth of cut

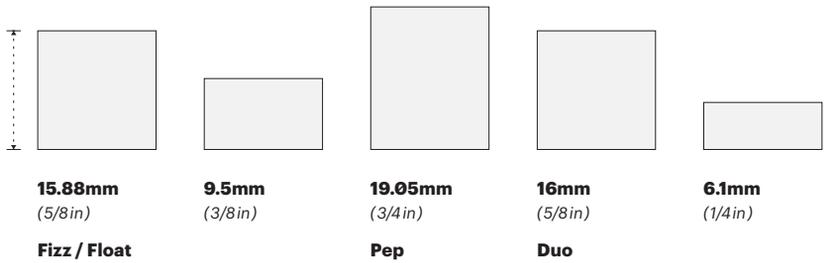
Non-glued, loose seams



Spline Loose Seam
3.2mm clear spline
Glued to only one side
Flat panel to panel connection

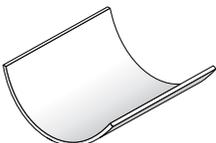
Cold Bending

Guideline minimum radius 17.5x gauge



COLD BENDING MINIMUM RADII	Not Available	Not Available	Not Available	2819mm (111in)	1041mm (41in)
---------------------------------------	---------------	---------------	---------------	--------------------------	-------------------------

Longitudinal bend only
Struttura cannot be heat-formed



Single Radius



Stone

Achieve an authentic stone appearance with the convenience of resin. Warm and rich, this translucent material is easier to work with than natural stone, opening up the possibilities.



La-Z-Boy Headquarters
Monroe, MI, USA

Stone
Alabaster White Gray, Lighting



— STONE

Luminous

This translucent material is lighter and easier to fabricate than traditional stone.

— STONE

Lustrous

Beautifully brighten
your space with
illuminated stone.





Northwell Health
New York, NY, USA

Stone
Alabaster White Gray, Lighting

— STONE

Design Choices

1. Finish
2. Pattern



Finish
(front)

Pattern
(throughout)

Unfinished
(back)



Stone Panel Shown:
Finish (Honed)
Pattern (Onyx Vein Cut Steel)
Finish (Unfinished)



Onyx Vein Cut Steel



Onyx Vein Cut Honey



Onyx Vein Cut Sandy



Onyx Cross Cut Steel



Onyx Cross Cut Honey



Onyx Cross Cut Sandy

— STONE

Patterns

Looks and feels like real stone while being lightweight and easier to work with.



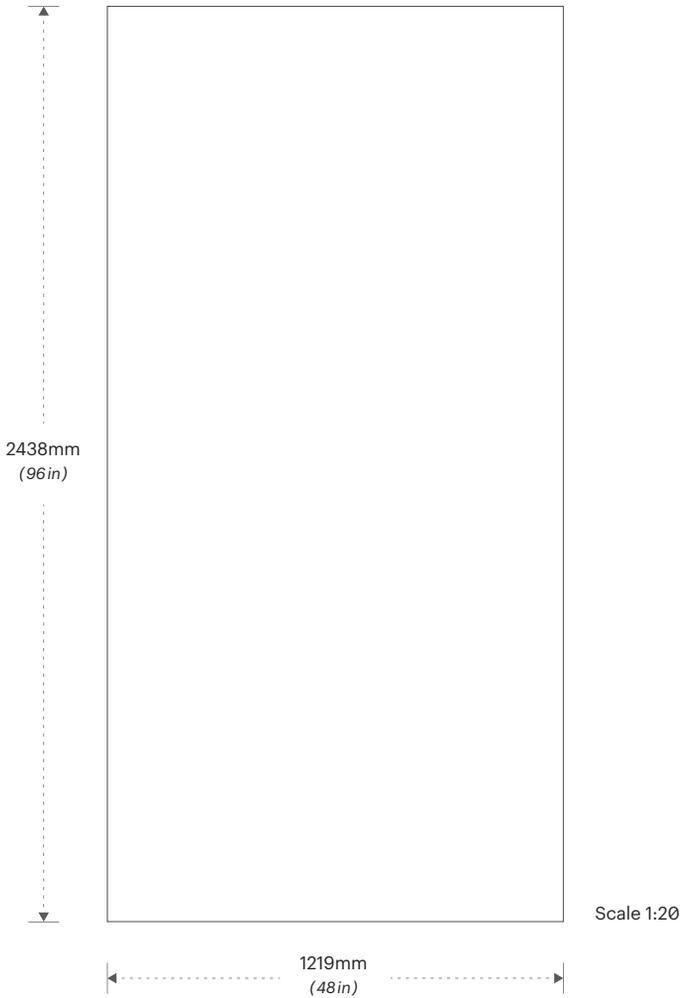
Alabaster White with Gray



Alabaster White with Brown

Panel Sizes

One sheet minimum order size -
only 3m² (32ft²)



Gauges & Weight

Finished gauges are dependent on layers.



Stone (scale 1:1)
Gauge & Weight

9.5mm
(3/8in)

GAUGE TOLERANCE

+/- 10%

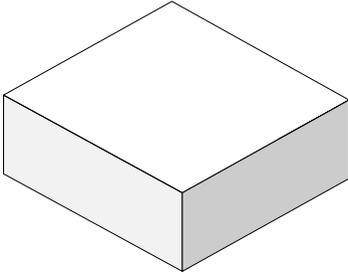
WEIGHT FLUX **
kg/m² (lb/ft²)

17kg/m²
(3.5lb/ft²)

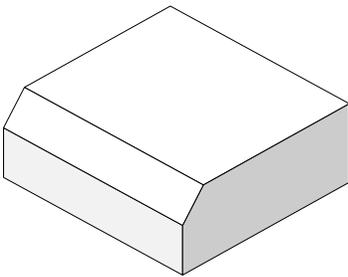
Panel dimensions and squareness are subject to a 4.5mm tolerance.
All gauges are subject to a tolerance.

Edge Type

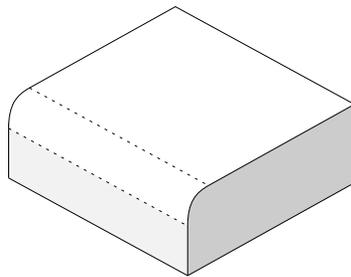
Choose the edge type best suited to your application.



Squared



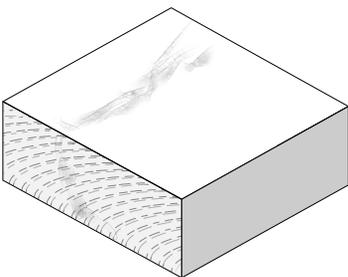
Chamfered



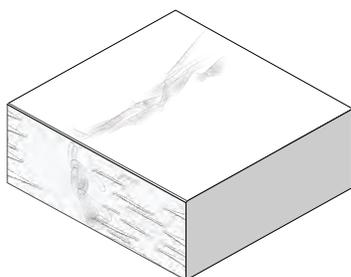
Radius

Edge Finishes

Choose an edge finish appropriate for your design.



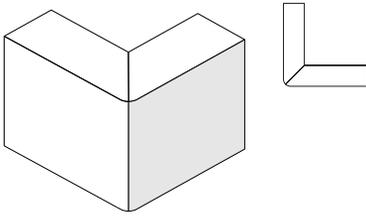
Saw Cut



Sanded

Joinery & Seams

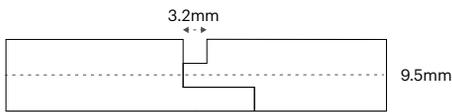
Factory made corners



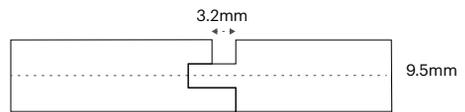
Miter UV Glue Seam
Shown with 3mm radius
9.5mm (3/8) gauge

Non-glued, loose seams

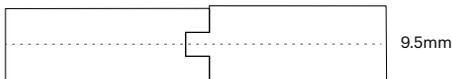
Please contact your 3form materials consultant for assistance with proper seam selection.



Half-Lap Quirk
9.5mm gauge
Joint 9.5mm wide - 3.2mm quirk
Unlit, frontlit, backlit
Access Limited

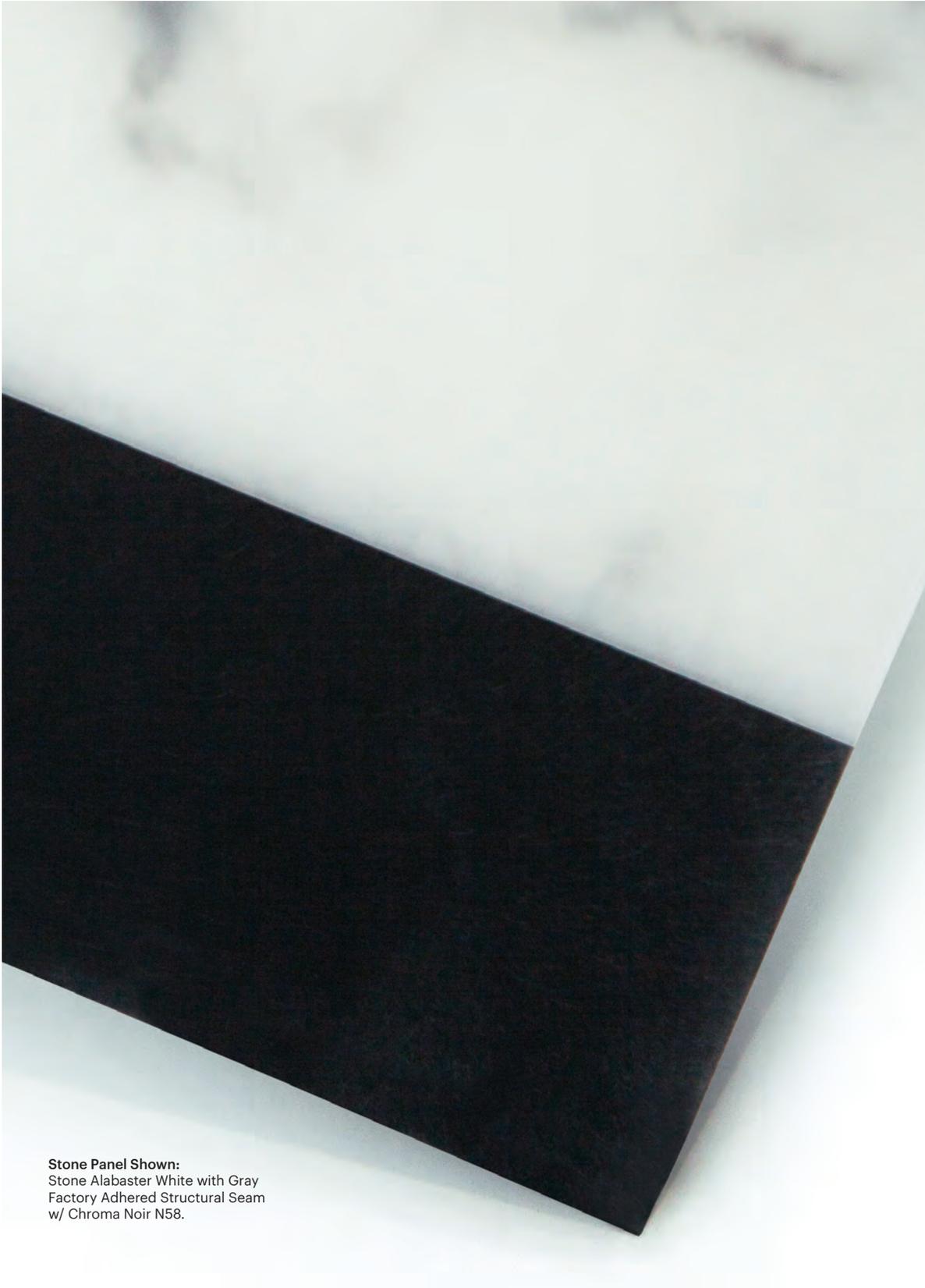


Tongue & Groove Quirk
9.5mm gauge
Joint 6.4mm wide - 3.2mm quirk
Unlit, frontlit, backlit
Access Limited

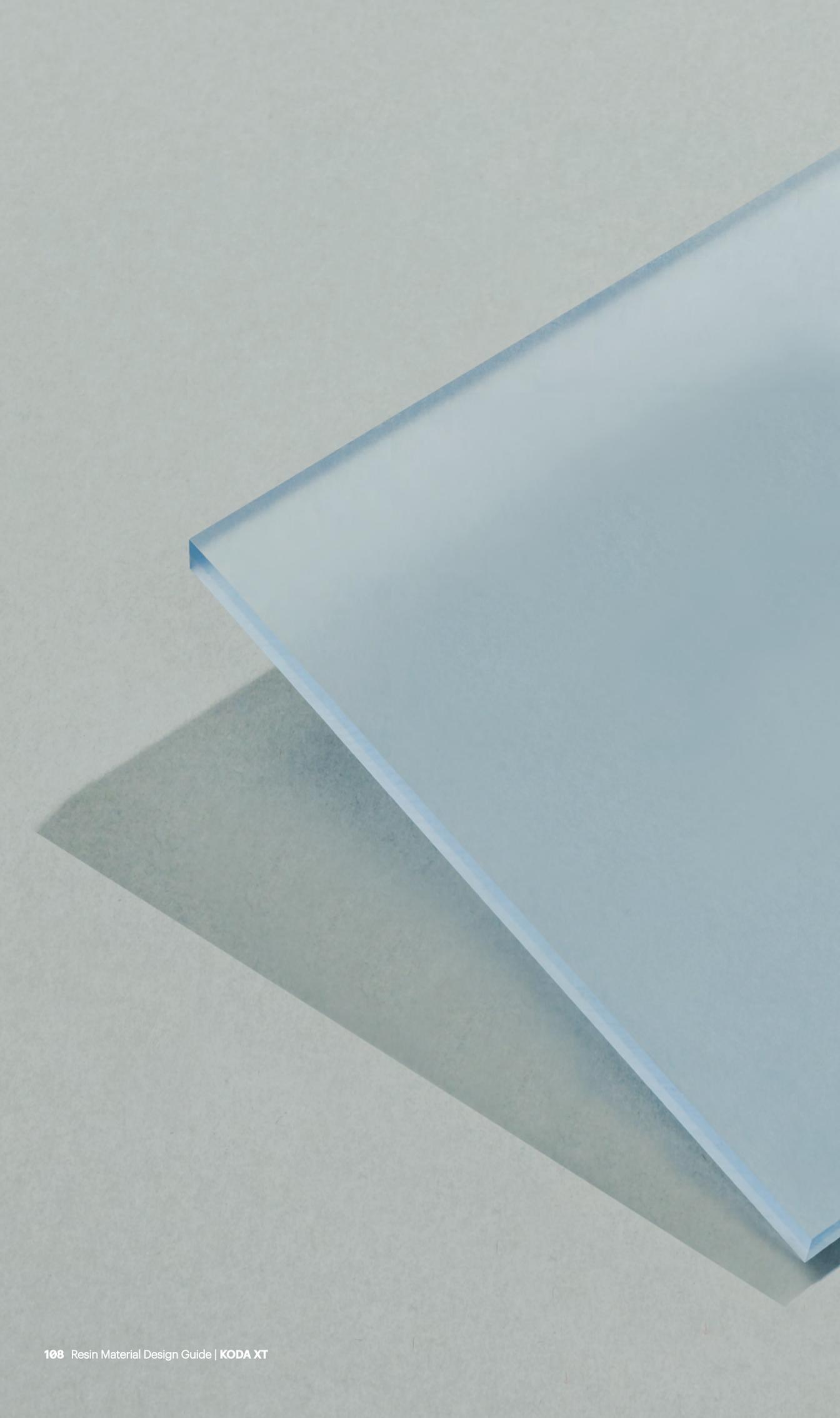


Tongue & Groove
9.5mm gauge.
Joint 3.2mm wide
Gauge variation may be noticeable
Backlit only
Access Limited

Stone is always Honed Finish
Stone cannot be cold bent or heat-formed.



Stone Panel Shown:
Stone Alabaster White with Gray
Factory Adhered Structural Seam
w/ Chroma Noir N58.





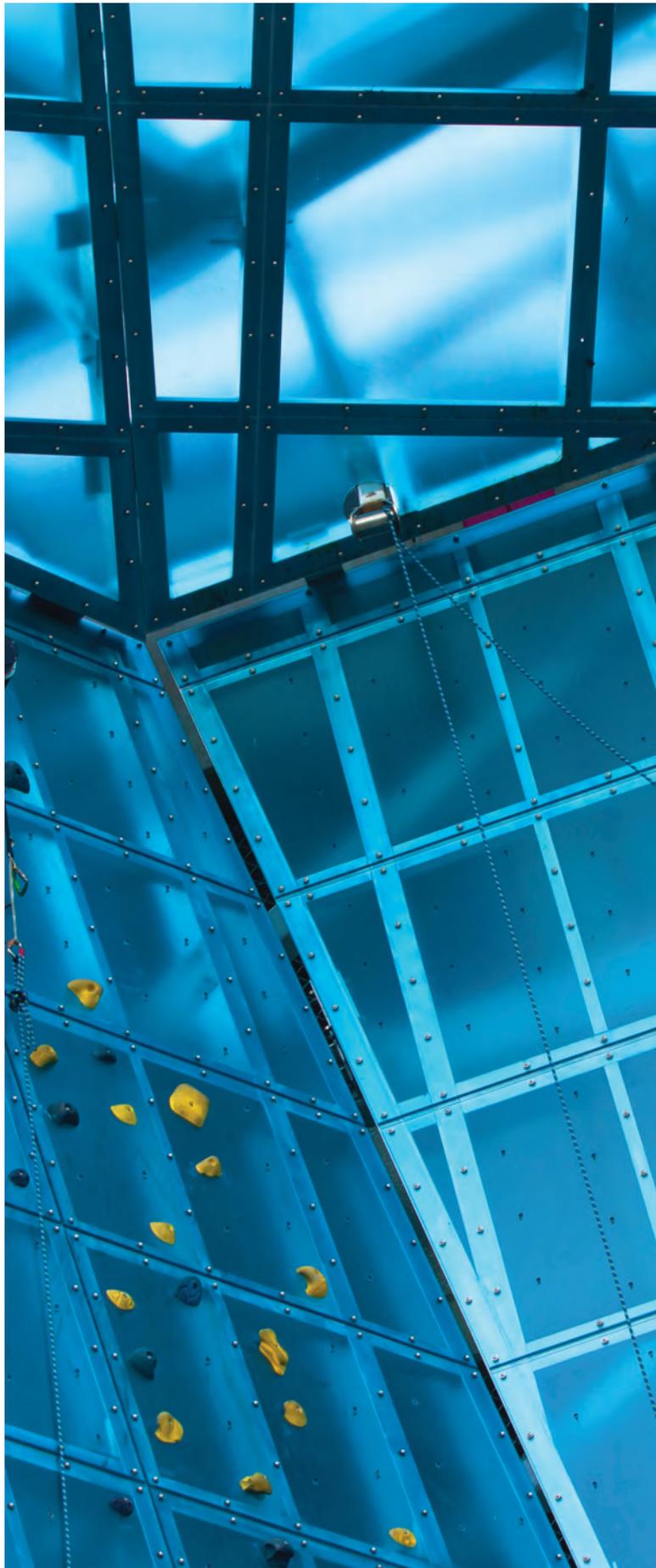
Koda XT

A performance driven translucent material for exterior applications, Koda XT has extraordinary impact resistance and durability. Colours and finishes are available in low quantities making it an excellent design alternative to glass.

— KODA XT

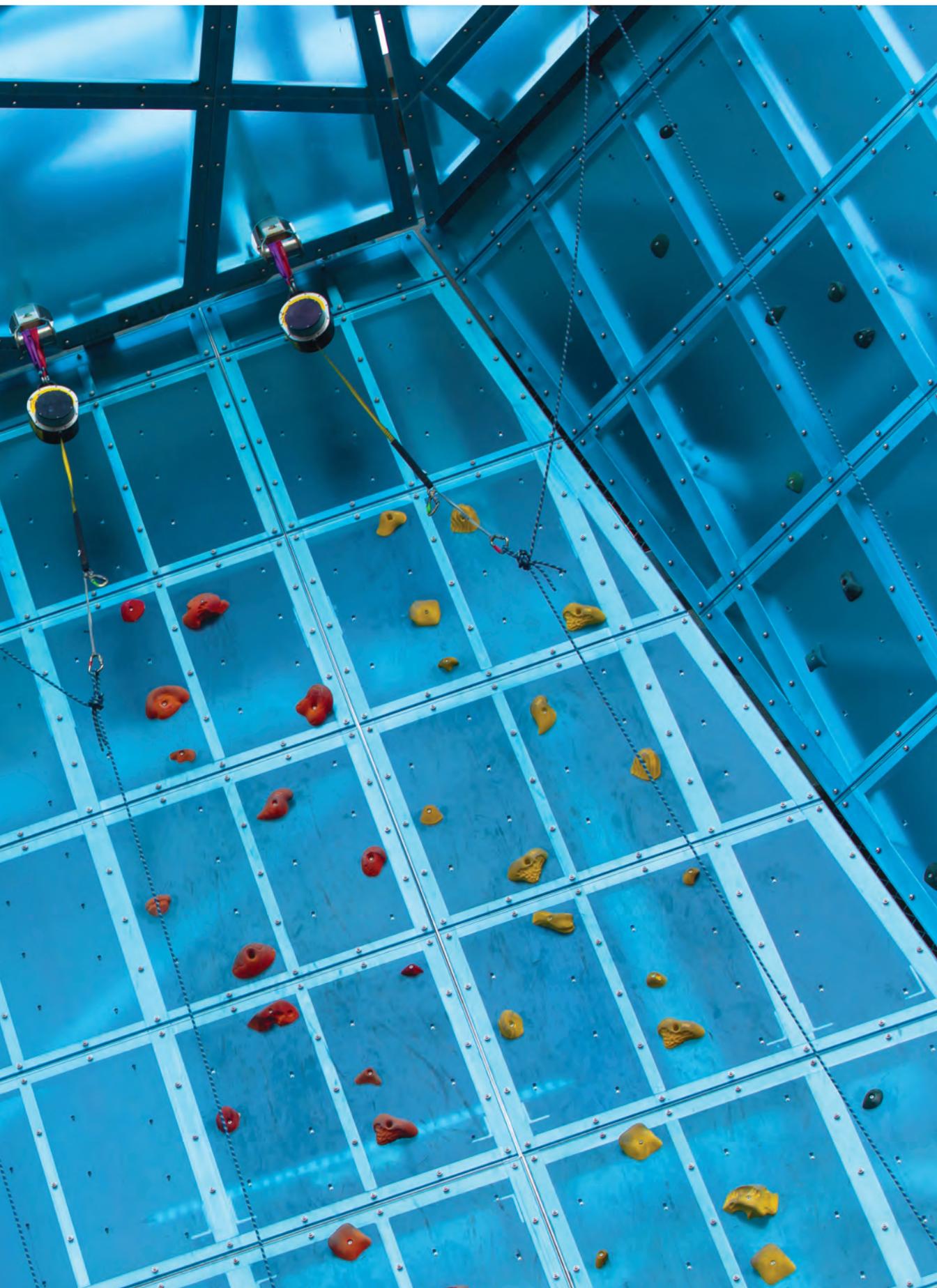
Stable

Exquisite design meets extreme durability in this exterior translucent material.



HighPoint Climbing
Chattanooga, TN, USA

Koda XT
Surf



Regional Transit Authority
New Orleans, LA, USA

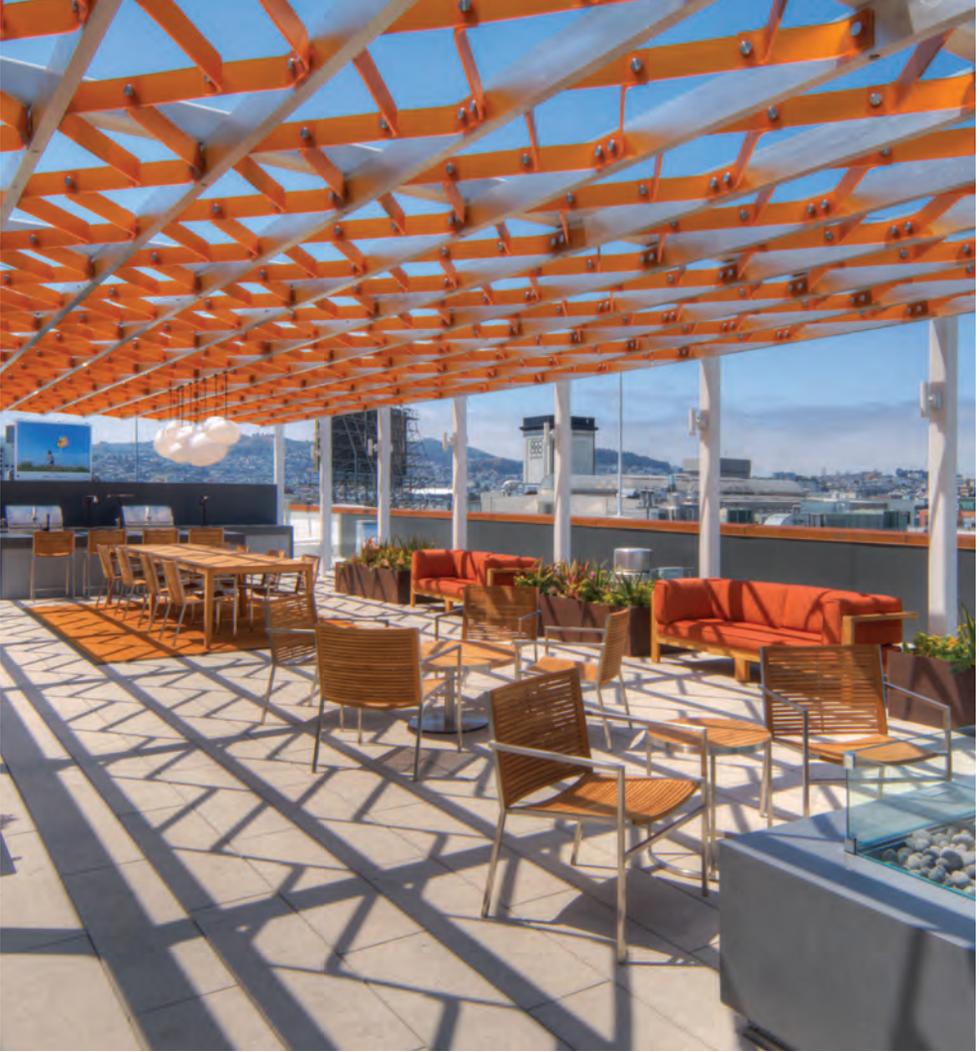
Koda XT
Custom Colour



El Paso City Transit Shelters
El Paso, TX, USA

Koda XT
Cassidy B26 + White Out





855 Brannan Trellis
San Francisco, CA, USA

Koda XT
Butternut Ø15

— KODA XT

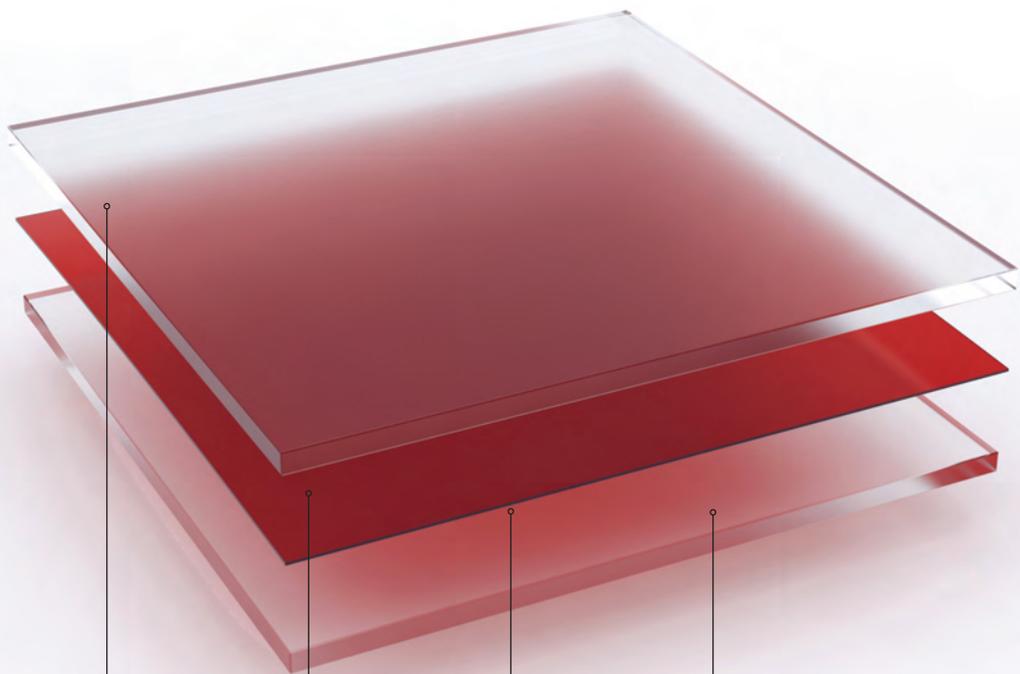
Vibrant

Add colour to exterior applications, with this alternative to glass.

— KODA XT

Design Choices

1. Finish
2. Colour
3. Interlayer
4. Effects



Finish
(front and back)

Colour
(front, centered
and/or back)

Interlayer
High Resolution Print
(centered)

**White, Diffusion
or Effect**
front, centered
and/or back)



Koda XT Panel Shown:
Finish (Patent F02, front)
Colour (Desire R23, back)
Finish (Stucco F06, back)

— KODA XT

High Resolution Printing

Choose from our curated image collection or print your own graphics in Koda XT.



ODOT Long Street Cultural Wall
Columbus, OH, USA

KODA XT
HighRes, Lighting



L.A. Metro Division 13
Los Angeles, CA, USA

Koda XT
HighRes



Diamond Teague Pier
Washington, DC, USA

Koda XT
HighRes

Colour Portfolio

The 3form Colour Portfolio offers a comprehensive assortment of translucent colours for exterior applications.





Whites & Effects

Control levels of opacity and reflectiveness.



Titanium E02



Ghost W03



Down W02

Finishes

Control scratch resistance and translucency.



Polish
F11



Sandstone
F01



Patina
F02



Patent
F03



Vellum
F04



Supermatte
F05



Stucco
F06

F05 and F11 only on Crystal Clear
Koda XT cannot be seamed

STANDARD FINISHES	DURABILITY
Stucco	High
Sandstone	High
Vellum	Moderate
Supermatte	Low
Patent	Low
Polish	Low

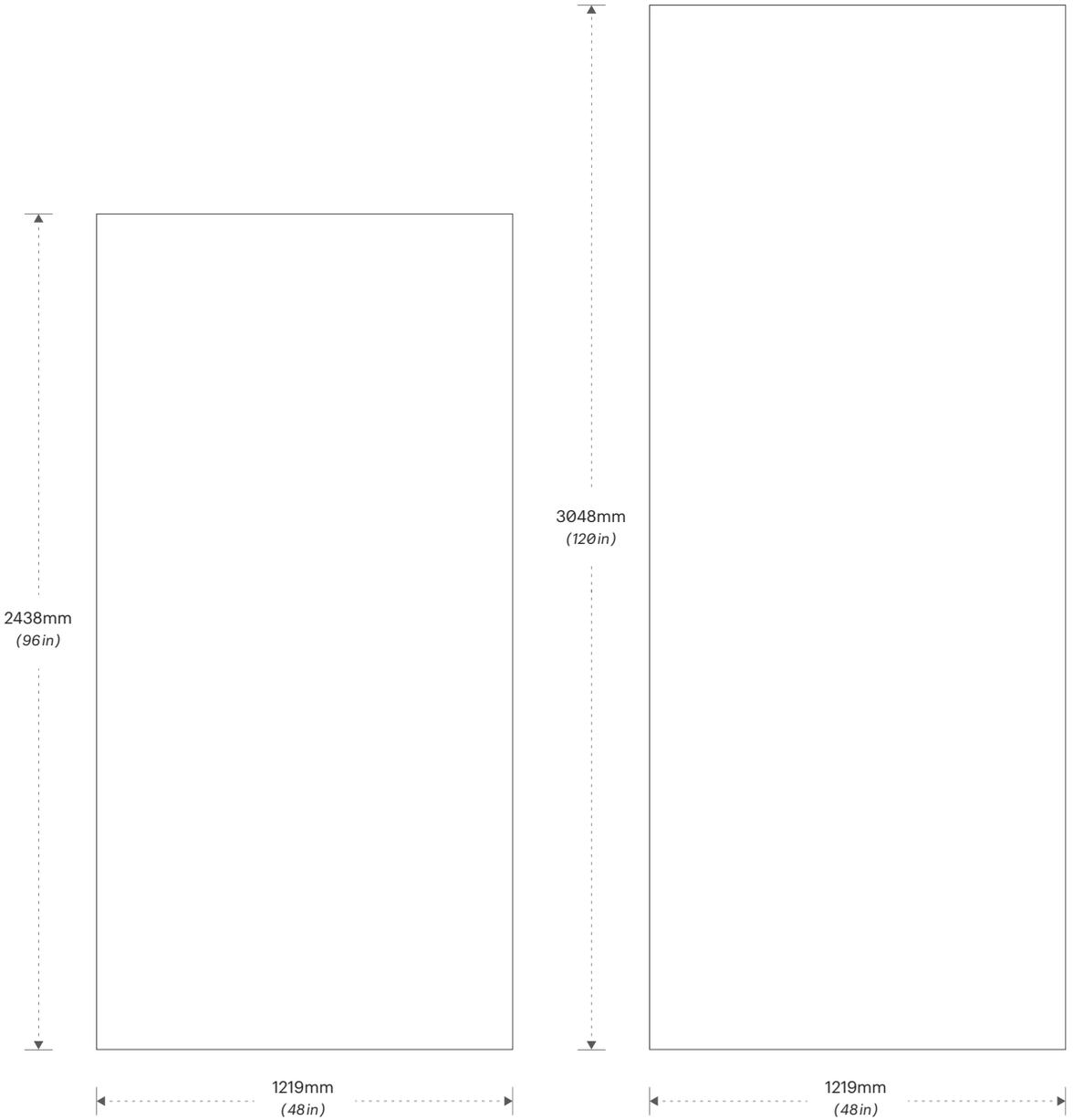
High Can be used in the most demanding applications, such as canopies, wall cladding, and high traffic areas, etc

Moderate Specify for all but the most demanding applications, when finish durability is a driving requirement

Low For applications where contact with people and/or objects can be minimised or eliminated, such as in ceiling features or artwork

Panel Sizes

One sheet minimum order size -
only 3m² (32ft²)



Panel dimensions and squareness are subject to a 4.7mm (3/16in) tolerance.
Scale 1:20

Gauges & Weight

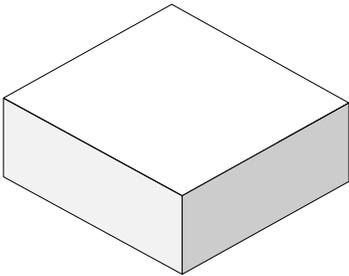
Finished gauges are dependent on layers.

Koda XT (scale 1:1) Gauge & Weight	12.7mm (1/2in)	6.35mm (1/4in)
MINIMUM ALLOWANCE Colour	11.45mm (0.450in)	Not Available
MAXIMUM ALLOWANCE Colour	14.26mm (0.585in)	Not Available
MINIMUM ALLOWANCE Crystal Clear	10.85mm (0.4277in)	5.38mm (0.212in)
MAXIMUM ALLOWANCE Crystal Clear	12.7mm (0.500in)	6.6mm (0.260in)
WEIGHT FLUX kg/m ² (lb/ft ²)	15.1kg/m² (3.1lb/ft ²)	7.31kg/m² (1.516lb/ft ²)

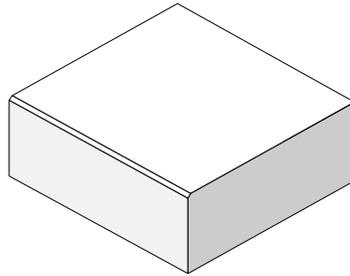
All gauges are subject to a tolerance.

Edge Type

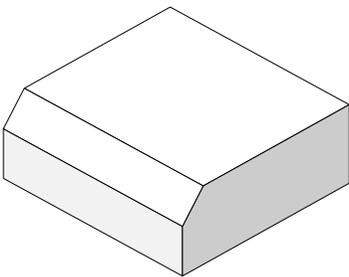
Choose the edge type best suited to your application.



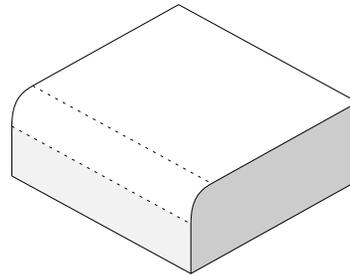
Squared



Eased



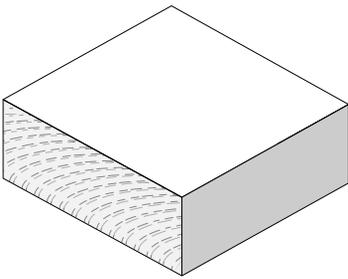
Chamfered



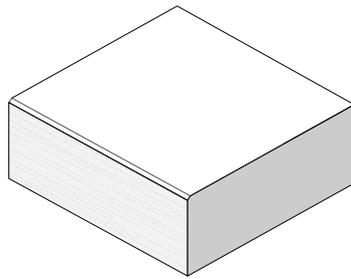
Radius

Edge Finishes

Choose an edge finish appropriate for your design.



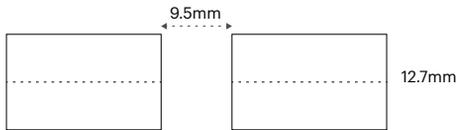
Saw Cut



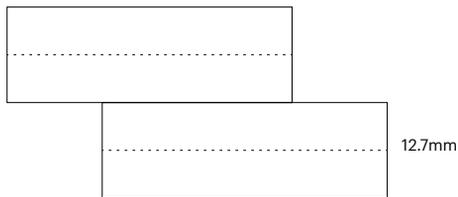
Sanded

Joinery & Seams

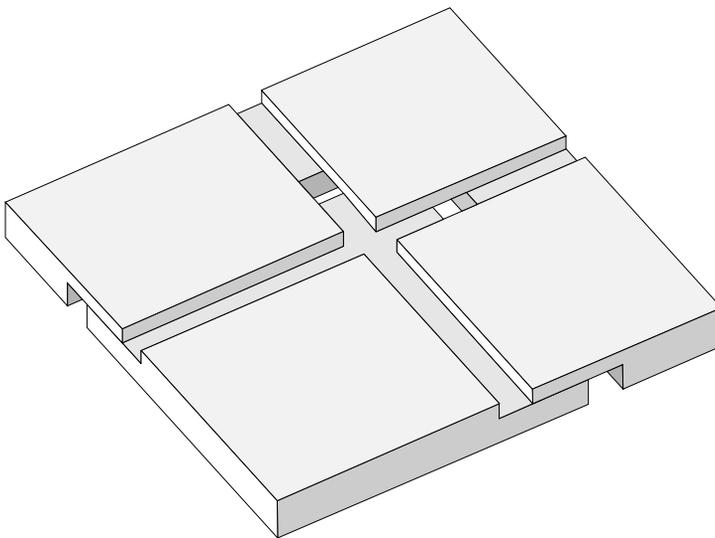
Non-glued, loose seams.



Exterior Reveal Joint
12.7mm gauge
Open joint
Horizontal or vertical surfaces
Used with 3form point support xt hardware
Minimises wind load pressure

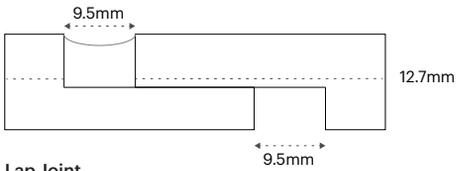


Overlap Joint
Overlap based on application
Angled or vertical surfaces
Used to direct water
Minimises wind load pressure
Double colour effect at joint



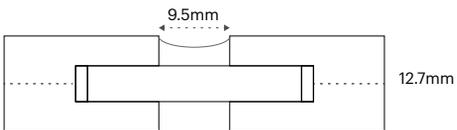
4 Corner Lap Joint
12.7mm gauge
Can be silicon sealed

Field adhered seams



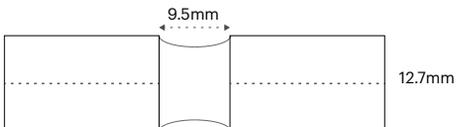
Lap Joint

12.7mm gauge
Silicon sealed joint
Horizontal or vertical surfaces
Support required at joint



Spline Joint

12.7mm gauge
Silicon sealed joint
Horizontal surfaces and large spans
Clear or integrated colour
Sequential installation



Exterior Reveal Joint

12.7mm gauge
Silicon sealed joint
Horizontal or vertical surfaces
Used with framed installations

Cold Bending

Koda XT can be cold bent in moderate single radius applications.

Guideline: Minimum radius 100x gauge

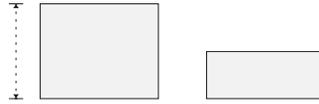


Heat Forming

Koda XT can be heat formed to create a monolithic, undulating visual.



Koda XT (scale 1:1)
Cold Bending
& Heat Forming



12.7mm
(1/2 in)

6.35mm
(1/4 in)

Cold Bending Minimum Radii

KODA XT

1270mm
(50 in)

635mm
(25 in)

Heat Forming Minimum Radii

Low durability finishes not recommended for heatforming

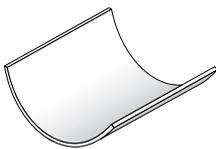
KODA XT

76.2mm
(3 in)

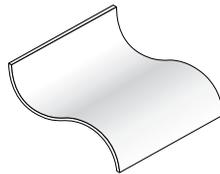
38.1mm
(1.5 in)

**COMPLEX SHAPES
& CURVES**

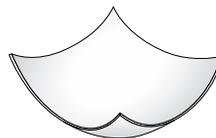
Available— Contact 3form for review



Single Radius

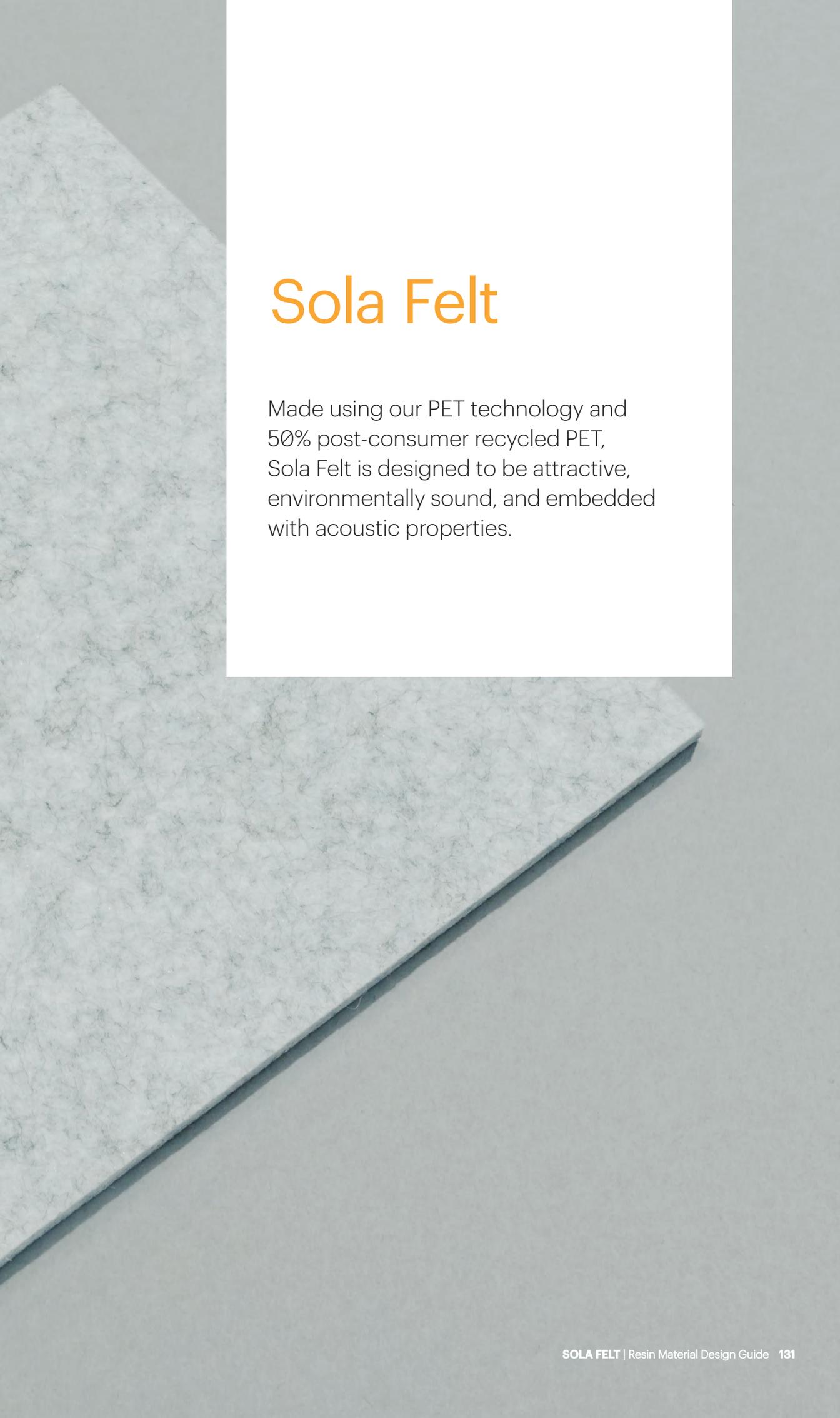


Multiple Radii



Complex Shapes





Sola Felt

Made using our PET technology and 50% post-consumer recycled PET, Sola Felt is designed to be attractive, environmentally sound, and embedded with acoustic properties.

— SOLA FELT

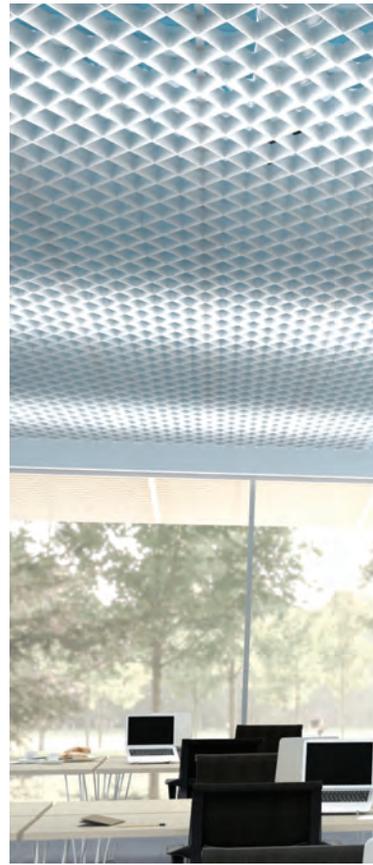
Performance

Use this sound absorptive material in eye-catching forms to calm open spaces.



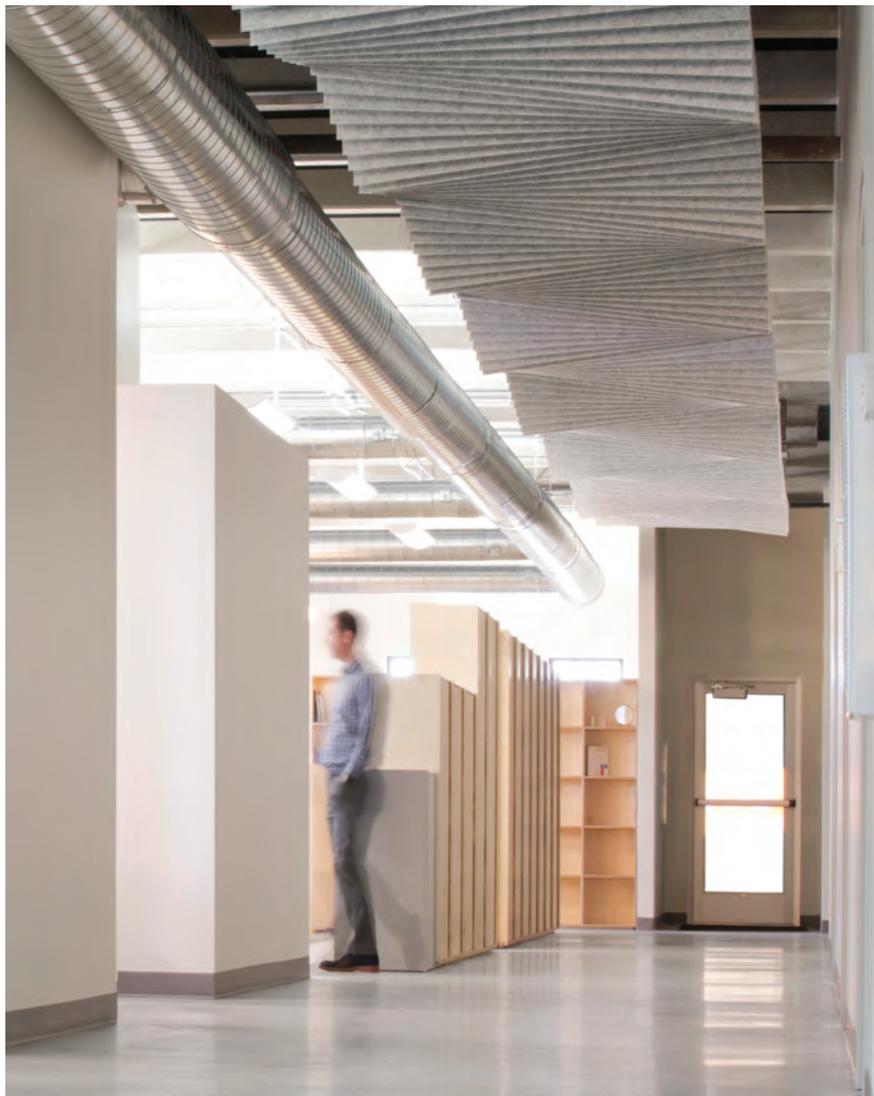
Seeyond
Sola Felt, Cusp, Cast





3form Headquarters
Salt Lake City, UT, USA

Ceiling Edge
Sola Felt; Nickel





Clario
Zinc

— SOLA FELT

Sustainable

Made with 50%
post-consumer
recycled material.

— SOLA FELT

Comfortable

The soft texture of Sola Felt creates a comfortable feeling in a space.



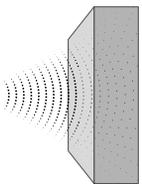


Seeyond
Cusp, Mineral



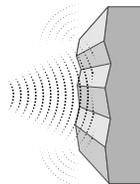
— SOLA FELT

Absorption & Diffusion



Absorption

Absorptive materials soften reverberation and dampen sound energy in a space. Absorption is ideal for loud conference rooms or open spaces where people congregate.



Diffusion

Diffusive materials scatter sound energy and reduce reverberation. Diffusion can increase the effectiveness of absorption and works well in narrow hallways or perpendicular to an absorptive surface where the scattered sound can then be dampened.



Seeyond
Cusp, Nickel

Hush Clad
Nickel

Clario
Nickel

α_w

Alpha w is a weighted measurement of how well a material absorbs sound energy ranging from 0.00-1.00. Increased absorption performance across the spectrum of tested frequencies is expressed by bracketed letters: L (Low 250Hz), M (Medium 500Hz and 1000Hz) or H (High 2000Hz and 4000Hz).



— SOLA FELT

Utilising PET Technology for Good

PET, commonly found in water bottles, is recycled into pellets that are then extruded into thin, soft fibres. Layers of these fibres are then pressed together to create a sheet of sound absorbing Sola Felt.



— SOLA FELT

Colour Options

Choose from a variety of neutrals and brights.



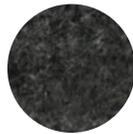
Oxford



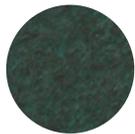
Admiral



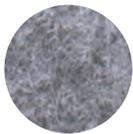
Ebony



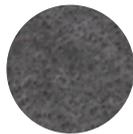
Cast



Hunter



Armor



Mineral



Moon



Citrine



Aries



Ruby



Burnt Umber



Nickel



Zinc



Cashmere





3form Headquarters
Salt Lake City, UT, USA

Hush Clad
Zinc



— SOLA FELT

Hush Clad

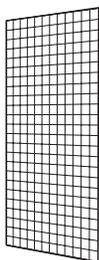
Patterns



Plane



Vim



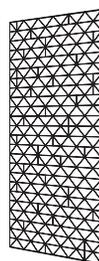
Net



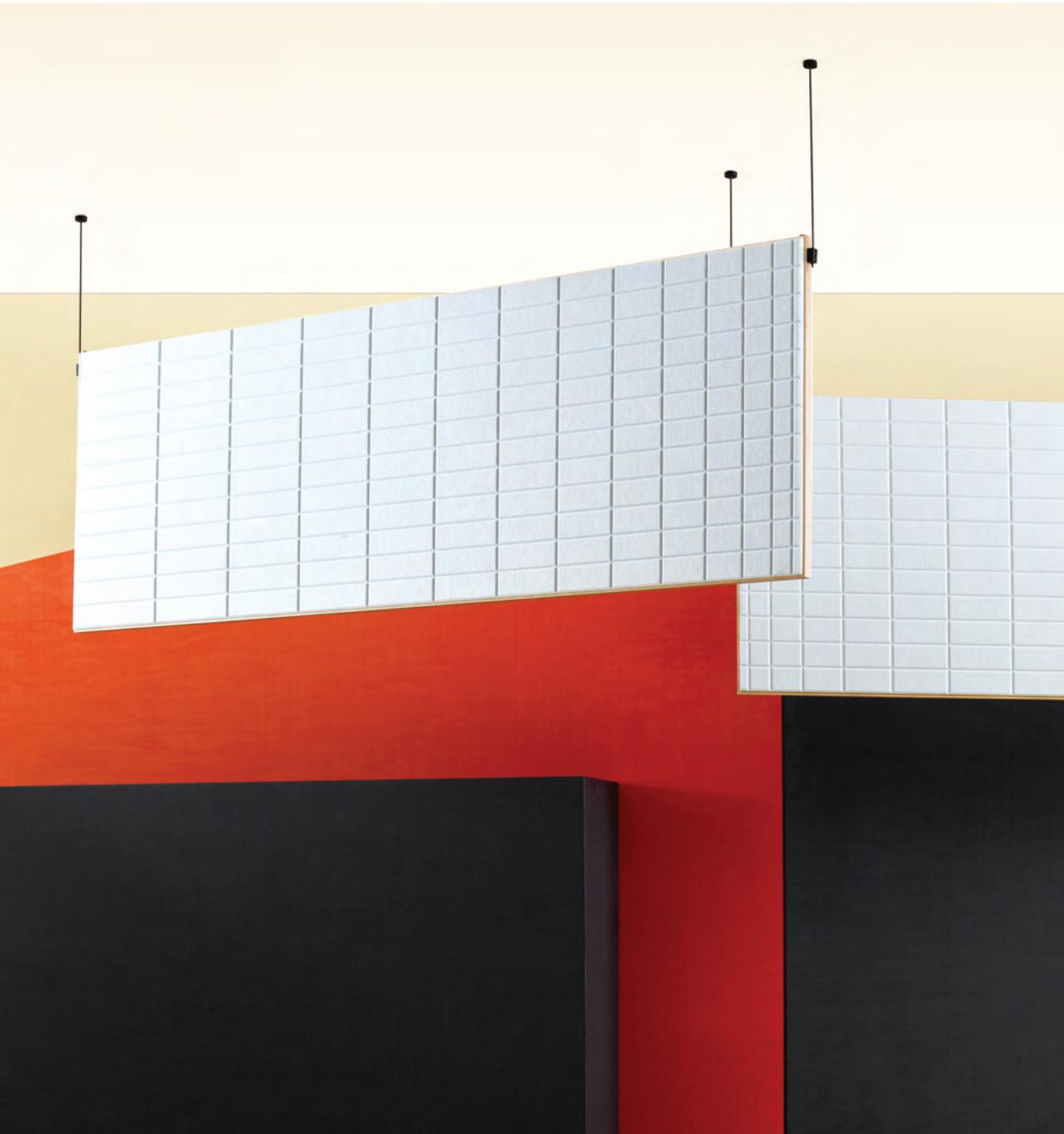
Margin



Accord



Quint

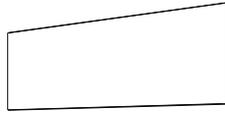


3form Headquarters
Salt Lake City, UT, USA

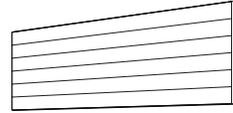
Divy,
Baffles, Zinc

Divvy

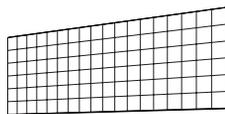
Minimal partitions and baffles that absorb sound and add privacy.



Plane



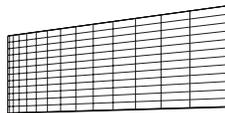
Vim



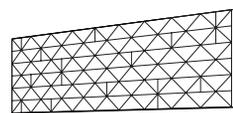
Net



Margin



Accord



Quint





Seeyond
Ceiling

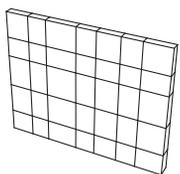
Cusp
Zinc, Cove Lighting



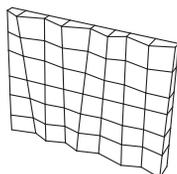
— SOLA FELT

Seeyond

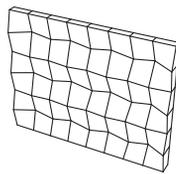
Dynamic custom ceiling, partitions and wall solutions.



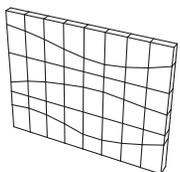
Court



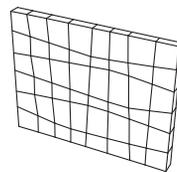
Tilt



Cusp



Billow



Kink

Seeyond
Partition

Tilt
Burnt Umber



Seeyond
Wall

Billow
Admiral



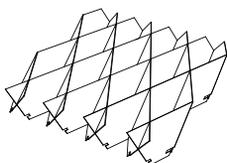
Clario
Zinc



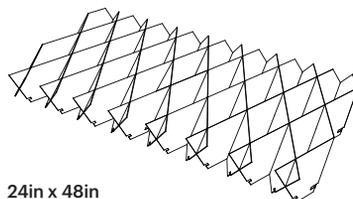
— SOLA FELT

Clario

Transform overhead space with these sound absorbing baffles. Clario is an ideal solution for conference rooms or high conversation areas.



24in x 24in



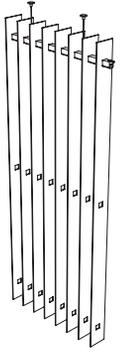
24in x 48in

Can be used with 24mm T-Bar suspension systems on a 600mm x 600mm or 1200mm x 1200mm module.

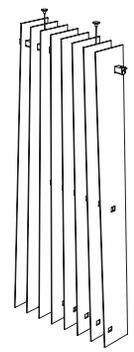
Edge

Decorative modular fins that absorb and diffuse sound. Edge may also be used with Varia.

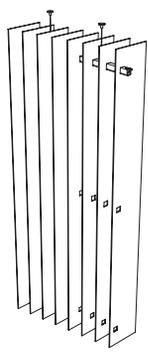
Partitions



Uniform

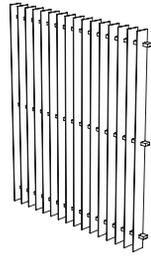


Fan

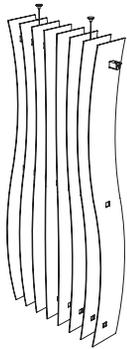


Stepped

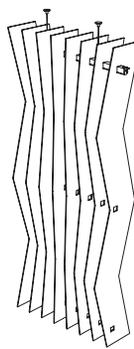
Wall



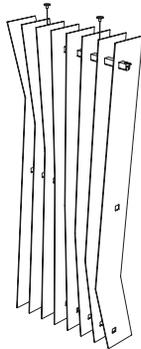
Ceiling



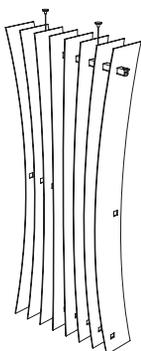
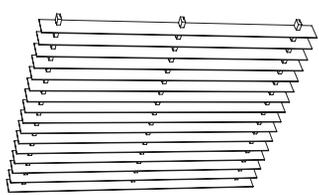
Contour



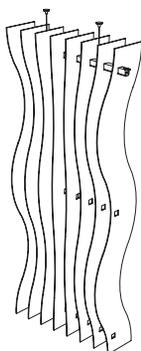
Jagged



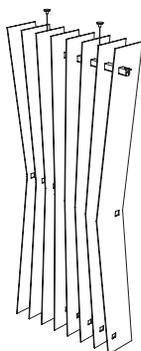
Diagonal



Arc



Hourglass



Angle



Edge, Fan
Sola Felt, Mineral



Edge, Arc
Sola Felt, Zinc





Hardware

Standard and custom hardware for partitions, doors, wall cladding, signage and exterior solutions. Our architectural hardware is specifically designed to work with our resin material applications.



Art Gallery of Alberta
Edmonton, Alberta, Canada

Chroma
Point Support + Heat Forming



— HARDWARE

Purposeful

Specifically designed
for resin material
applications.



— HARDWARE

Convenient

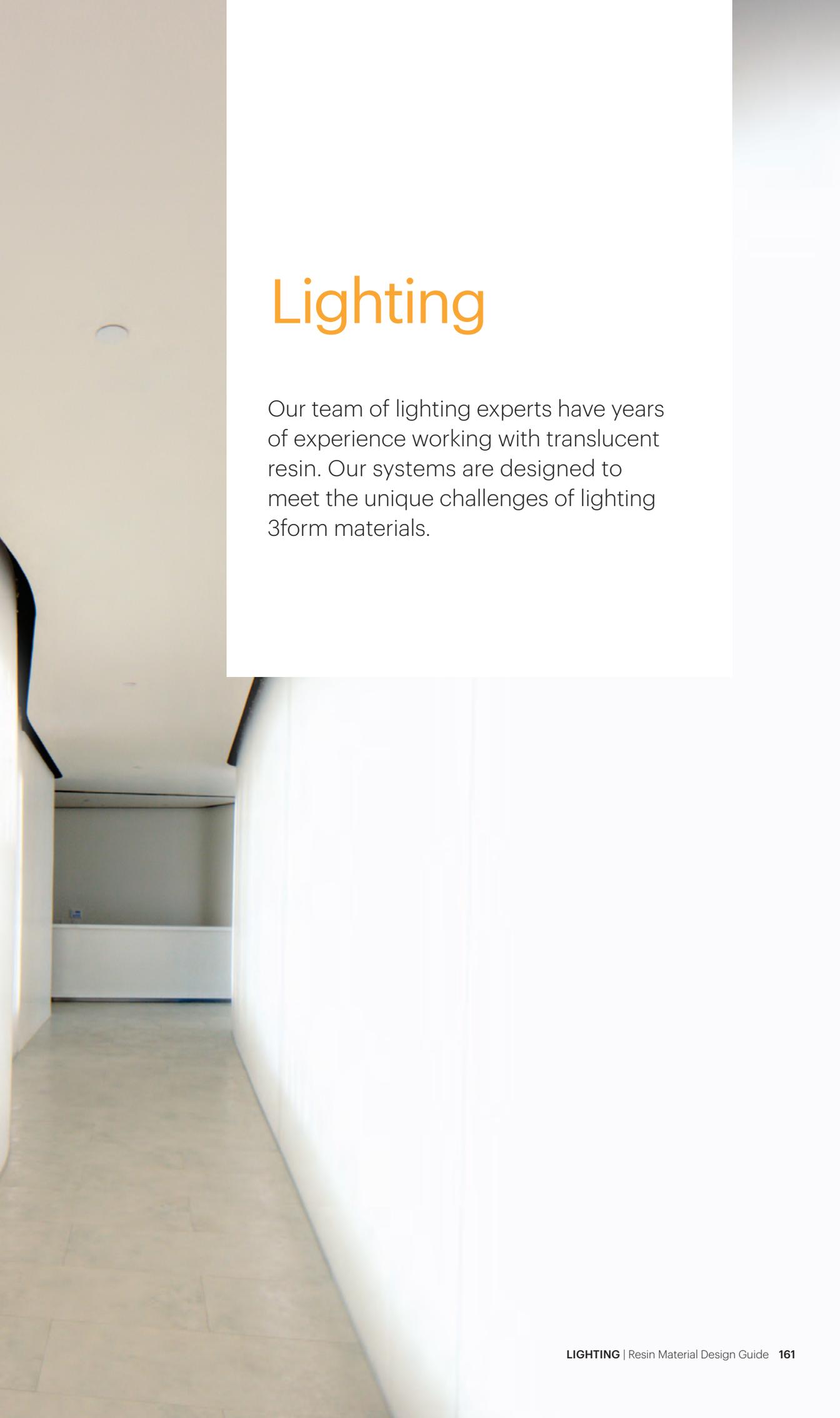
Ready-to-Go SimpleSpec solutions for sliding doors, cable systems and partitions.





3form hardware has been developed to take into account the inherent properties of resin, such as gauge tolerance, expansion, deflection, and bowing.



A photograph of a modern hallway with a curved wall and a recessed ceiling light fixture. The hallway is brightly lit, and the floor is made of light-colored tiles. The wall is white and has a curved shape. The ceiling is white and has a recessed light fixture. The overall atmosphere is clean and modern.

Lighting

Our team of lighting experts have years of experience working with translucent resin. Our systems are designed to meet the unique challenges of lighting 3form materials.

— LIGHTING

Flawless

3form lighting specialists craft solutions with proprietary lighting to achieve your design intent.





IBM Watson
New York City, NY, USA

Chroma
Clear, Lighting



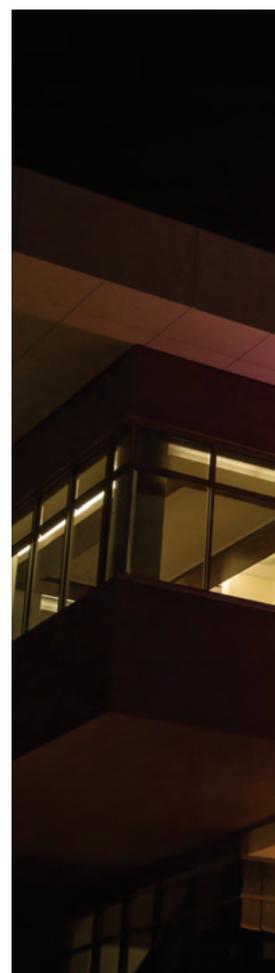
High Point University
High Point, NC, USA

Varia
Custom, RGB Lighting

— LIGHTING

Expertise

Factory installation, testing and thorough quality reviews ensure successful outcomes.



Seattle's Best
Seattle, WA, USA

Chroma
Custom, Lighting



University of Wyoming
Laramie, WY, USA

Chroma XT
Ghost, RGB Lighting



Sustainability

We believe in being responsible for our products through their entire lifecycle.







— SUSTAINABILITY

Path to Zero

Our legacy of sustainability continues with our path to zero which includes aggressive recycling, reduced waste and carbon neutrality. We believe in leadership by continuous improvement with an emphasis on human health and our environment.

Material Transparency

We have invested in creating Environmental Product Declarations (EPD's) and Health Product Declarations (HPD's) to offer an exceptional level of transparency to our customers.

3form has 12 onsite electric vehicle charging stations and 100% electricity offset. Our flagship product Varia contains 40% recycled content.



Full Circle

“At 3form we believe thoughtful design can promote craftsmanship and better serve our communities, while respecting the environments where we work and live.”



Talley Goodson
CEO





— FULL CIRCLE

Human Connection

3form supports artisans around the world through our Full Circle program.



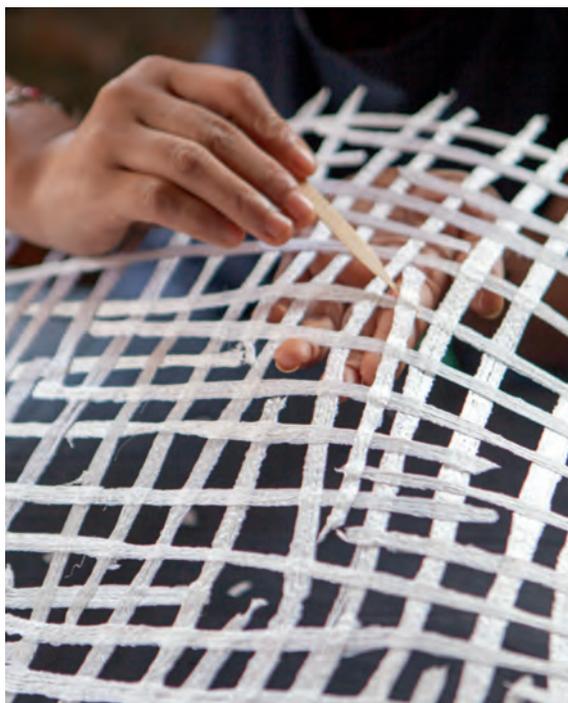


— FULL CIRCLE

Meaningful Design

Full Circle is about making meaningful, one-on-one connections. We believe a worker's rights are human rights. We support fair trade wages and are committed to providing safe, healthy working environments.

Beyond product development, we identify opportunities where we can improve living conditions for entire communities such as tuition programmes, micro-savings groups, and community gardens.





Warranty 3form, LLC

North & South America

For a period of two years from the date of shipment, 3form, Inc. ("Seller") warrants to its customer that Seller's products will conform to the supplied product specifications and will be free from identifiable defects in materials and workmanship. Claims made under this limited warranty must be submitted to Seller in writing by no later than two years after the shipment of the product. In the event of an approved warranty claim, Seller shall have the option, at its sole discretion, to (1) replace the product, (2) repair the product or (3) refund the purchase price of the product. In no event does this limited warranty cover any costs relating to (re) installation or fabrication expense or any other direct or indirect loss which may result from product failure.

This limited warranty is exclusive. Seller does not make any other warranties, express or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose, and Seller disclaims any other representations, liabilities and obligations on the part of Seller. Seller does not assume any obligation or liability other than those expressly set forth herein, nor authorize any representative or other person to do so. Seller shall in no event be liable to the customer or any third-party for any special, consequential, or incidental damages arising out of the use or application of the Seller's product.

This warranty does not cover:

1. Damage from improper unloading;
2. Damage resulting from wear and tear on the product;
3. Damage resulting from improper specification, fabrication or installment;
4. Damage resulting from failure to maintain the product according to Seller's product usage guidelines;
5. Damage resulting from accident, casualty or misuse;
6. Damage resulting from the failure of a third-party's design, installation, services or product;

7. Damage to custom products designed and manufactured with custom inserts or based on custom specifications supplied by a customer or its agents;
8. Variations in dye lots, gauges, textures, and finishes that may vary slightly between the samples provided to customers or otherwise shown by Seller and the product actually delivered; and
9. The variation in the size and the imperfections of natural or organic products and changes over time in such product.

Fabrication

In the event that the customer has requested custom fabrication in connection with a Seller's sheet product (including any seaming, edge finishing, heat draping and/or molding), this limited warranty does not cover any of the following: (a) visibility of seaming, (b) slight irregularities in gauges and textures of seaming or edge finishing provided by Seller or (c) slight irregularities in the surface of any product that has been subjected to heat draping and/or molding.

Warranty Claim Process

Any claims made under this limited warranty must be described in detail and submitted in writing to:

3form, Inc.
2300 South 2300 West
Salt Lake City, UT 84119
Attn: Warranty Department

Seller, upon review and approval of a warranty claim, will then provide to customer, if applicable, a return materials authorization form which must be completed and returned to Seller pursuant to the instructions set forth on such return materials authorization form.

1388556.02



Warranty 3form BV

EMEA

3form BV ("3form") warrants for a period of up to two years from the date of shipment that its product will conform to the supplied product specifications and will be free from defects in materials and workmanship. Claims made under this limited warranty must be submitted to 3form in writing by no later than two years after the date of shipment of the product. In the event of a warranty claim, 3form shall have the option to either (i) replace the product or (ii) refund the purchase price of the product. In no event does this limited warranty cover any costs relating to demounting, (re) installation, scaffolding or transport, any fabrication expense or any other direct or indirect loss which may result from product failure.

The limited warranty is exclusive and in lieu of all warranties, express or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose, and all other liabilities or obligations on the part of 3form. 3form does not assume any obligation or liability other than those expressly set forth herein, nor authorize any representative or other person to do so. 3form shall in no event be liable for any special, consequential, or incidental damages arising out of the use or application of the 3form product.

This warranty does not cover:

1. Damage resulting from unusual wear and tear on the product;
2. Damage resulting from improper specification, fabrication or installation;
3. Damage resulting from failure to maintain according to 3form product usage guidelines;
4. Damage resulting from accident or abuse;
5. Damage resulting from the failure of a third-party's product;
6. Damage to custom products designed and manufactured with custom inserts or based on custom specifications supplied by a customer or its agents;
7. Variations in dye lots, gauges, textures, and finishes, that may vary slightly between the samples provided to customers and the product actually delivered.

In the event that a customer has requested custom fabrication in connection with a 3form sheet product (including any seaming, edge finishing, heat draping and/or molding), this limited warranty does not cover any of the following: (i) visibility of seaming, (ii) slight irregularities in gauges and textures of seaming or edge finishing provided by 3form or (iii) slight irregularities in the surface of any product that has been subjected to heat draping and/or molding.

Any claims made under this limited warranty must be submitted in writing to:

For the attention of the EMEA Business Unit Manager
3form BV
Piekstraat 2
3071 EL Rotterdam
The Netherlands

3form, upon review and approval of a warranty claim, will then provide to customer a return materials authorisation form which must be completed and returned to 3form pursuant to the instructions set forth on such return materials authorisation form.

For more information, please visit www.3-form.com
20171124

Material	Varia	Chroma	Struttura Fizz / Float
COMPOSITION	PETG <i>(Polyethylene terephthalate glycol)</i>	PMMA/Acrylic <i>(Poly methyl methacrylate)</i>	PET-G with Polycarbonate core
RECYCLED CONTENT	40%	0%	25%
BENEFITS & FEATURES	<ul style="list-style-type: none"> · Impact resistant · Lightweight <i>(1/2 the density of glass)</i> · Chemical resistant · Formable · Easy to clean 	<ul style="list-style-type: none"> · Renewable matte finish · Abrasion resistant · Formable · Lights beautifully · Rigid 	<ul style="list-style-type: none"> · Structural · Lightweight · Chemical resistant · Easy to clean
OPTICAL CLARITY	Translucent	Optically clear	Translucent
USE AREA	Interior Exterior Horizontal Vertical & Vertical	Interior Exterior Horizontal Horizontal & Vertical & Vertical	Interior Horizontal & Vertical
REACTION TO FIRE (EU)	EN 13501-1:2007+A1:2009 EN ISO 11925-2:2010; EN 13823:2010 EEA EuroClass B-s1, d0 4.7mm (3/16in) 6.3mm (1/4in) 9.5mm (3/8in) <i>Gauges with non-combustible or PETG neutral interlayers</i> ETA 12/0036 Nov 1 2017	EN 13501-1:2007+A1:2009 EN ISO 11925-2:2010 EEA EuroClass E	Not tested
FLAMMABILITY (US) <i>Note: Dichroic & Timber Interlayers have alternate results, see 3-form.com/downloads/3form_varia_flammability_rev010.pdf</i>	ASTM E84 Flame Spread (FS) Smoke Developed (SD) 4.7mm (3/16in) Class A; FS <25, SD 250 6.3mm (1/4in) Class B; FS <65, SD 250 12.7mm (1/2in) Class B; FS <55, SD 400 19mm (3/4in) Class B; FS <35, SD 450 ASTM E84-03 25.4mm (1in) Class A; FS <20, SD 250 ASTM D2843 Smoke Density Pass <75; 71.6% ASTM D635 Flame Spread Pass CC1; Self-extinguishing ASTM D1929 Self-Ignition Temperature Pass >650° Fahrenheit; 716° Fahrenheit	ASTM E84 Flame Spread (FS) Smoke Developed (SD) 12.7mm (1/2in) Class C; FS <95, SD 450 25.4mm (1in) Class C; FS <115, SD 150 ASTM D2843 Smoke Density Pass <75; 4.1% ASTM D635 Flame Spread Pass CC2; Rate of burning: 12.7mm (1/2in) per min ASTM D1929 Self-Ignition Temperature Pass >650° Fahrenheit; 852° Fahrenheit	ASTM E84-04 Flame Spread (FS) Smoke Developed (SD) <i>Fizz / Float Large:</i> 9.5mm (3/8in) 15.8mm (5/8in) Class B; FS <65, SD 450 <i>Float Small:</i> 9.5mm (3/8in) 15.8mm (5/8in) Class B; FS <45, SD 350 ASTM D2843 Smoke Density <i>Fizz / Float:</i> Pass <75; 55.9% ASTM D635 Flame Spread Pass CC1; Self-extinguishing ASTM D1929 Self-Ignition Temperature <i>Fizz / Float:</i> Pass >650° Fahrenheit; 716° Fahrenheit
FLAMMABILITY (CANADA)	CAN/ULC S102.2 Flame Spread (FS) Smoke Generated (SG) 6.3mm (1/4in) FS 70, SG 518 25.4mm (1in) FS 40, SG 240	Not tested	Not tested
PERMISSIBLE SERVICE TEMP	Low <70° Celsius	High	Low <70° Celsius
AIR QUALITY (EU)	EOTA TR034 Category IA1 <i>Does not contain dangerous substances</i>	Not tested	Not tested
AIR QUALITY (US)	Greenguard® Gold <i>Except UV coated</i>	Greenguard® Gold	Greenguard® Gold
LIGHT TRANSMISSION	Meets the performance requirements established by the 2015 International Building Code (IBC) for light transmitting plastics & interior finishes		
IMPACT RESISTANCE	EOTA TR01 Soft Body Impact 6.3mm (1/4in) 9.5mm (3/8in) 500Nm <i>Tested with point support and frame hardware</i>	Not tested	Not tested

Struttura Pep / Duo	Stone	Koda XT		Sola Felt
Polycarbonate	Unsaturated Polyester Resin (UPE), Alumina Trihydrate (ATH) and Calcium Carbonate	Polycarbonate		PET-G <i>(Polyethylene terephthalate glycol)</i>
0%	0%	0%		50%
	<ul style="list-style-type: none"> · Renewable honed finish · Abrasion resistant · Lightweight <i>(compared to real stone)</i> · Look & feel of real stone · Easy to fabricate 	<ul style="list-style-type: none"> · Impact resistant · Chemical resistant · Easy to clean · Rigid 		<ul style="list-style-type: none"> · Impact resistant · Lightweight · Acoustic · Easy to install
	Translucent /opaque mix	Translucent		Opaque
	Interior Horizontal & Vertical	Interior Horizontal & Vertical	Exterior Horizontal & Vertical	Interior Horizontal & Vertical
	Not tested	Not tested		Not tested
ASTM E84-04 Flame Spread (FS) Smoke Developed (SD) <i>Pep:</i> 40mm (1-9/16in) Class B; FS <75, SD 90 ASTM D2843 Smoke Density <i>Pep:</i> Pass <75; 74.8% ASTM D635 Flame Spread Pass CC1; Self-extinguishing ASTM D1929 Self-Ignition Temperature <i>Pep:</i> Pass >650° Fahrenheit; 968° Fahrenheit	ASTM E84-04 Flame Spread (FS) Smoke Developed (SD) <i>Alabaster:</i> Class A; FS <15, SD 350 <i>Onyx:</i> Class A; FS 0, SD 10 ASTM D2843 Smoke Density <i>Alabaster:</i> Pass <75; 9.1% ASTM D635 Flame Spread Pass CC1; Self-extinguishing ASTM D1929 Self-Ignition Temperature <i>Alabaster:</i> Pass >650° Fahrenheit; 992° Fahrenheit	ASTM E84-03 Flame Spread (FS) Smoke Developed (SD) 6.3mm (1/4in) Class B; FS <65, SD 450 12.7mm (1/2in) Class B; FS <55, SD 400 ASTM D2843 Smoke Density Pass <75; 48.9% ASTM D635 Flame Spread Pass CC1; Self-extinguishing ASTM D1929 Self-Ignition Temperature Pass >650° Fahrenheit; 1004° Fahrenheit	ASTM E84 Flame Spread (FS) Smoke Developed (SD) Class A; FS <15, SD 450	
	Not tested	CAN/ULC S102.2 Flame Spread (FS) Smoke Generated (SG) 12.7mm (1/2in) FS 37, SG 280		Not tested
	Low	Very high		Low
	Not tested	Not tested		Not tested
	Not certified	Greenguard® Gold		Not certified
		Meets the performance requirements established by the 2015 International Building Code (IBC) for interior finishes		
	Not tested	Not tested <i>Polycarbonate is known to have good impact resistance</i>		Not tested <i>Felt is naturally impact resistant</i>

Contact

EMEA

+31 (0)88 33 67600

North America

800.726.0126

www.3-form.com

www.3-form.co.uk

www.3-form.fr

www.3-form.de

www.3-form.nl

www.3-form.it

www.3-form.es

At 3form® we believe in Smart Design for a Better World. Our approach promotes craftsmanship, community, sustainability, and respect for the environments where we work and live.

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