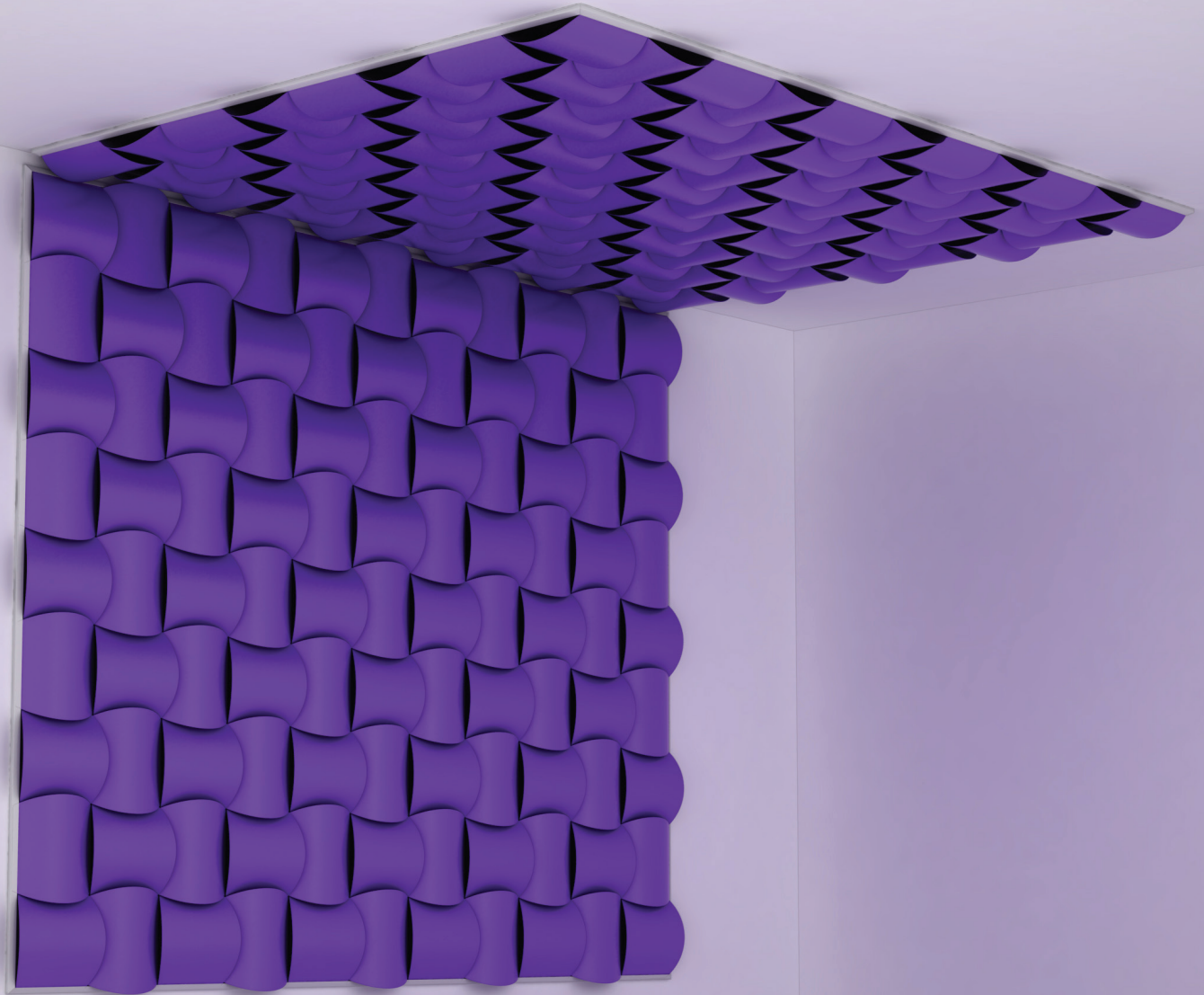


*Ready To Go*

# SimpleSpec 350.06™

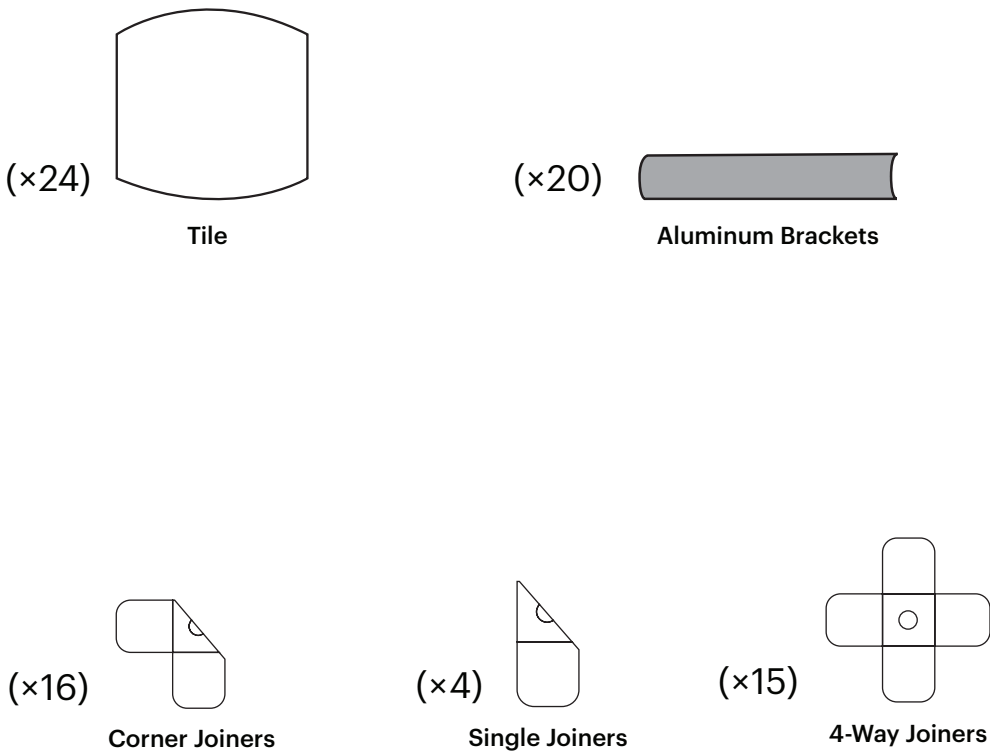
## Installation Manual



For more information, please visit [3-form.com](http://3-form.com) or call 800.726.0126

JUNE 2017 | MAN-RTG-350-06 | REV 001 © 2017 3form, Inc. All rights reserved.

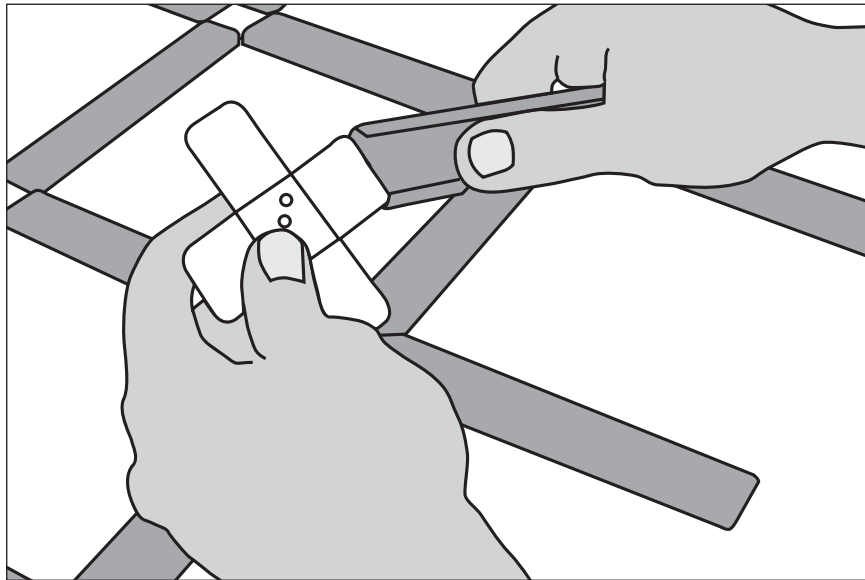
Contents Overview



The system is simple to assemble, however be sure to allow some time to construct the grid. In your Wovin Wall kit you will also find a drawing showing the layout of the mounting grid for your wall. When your frame is fully assembled it should look like the drawing. Use this as a guide when following the instructions below.

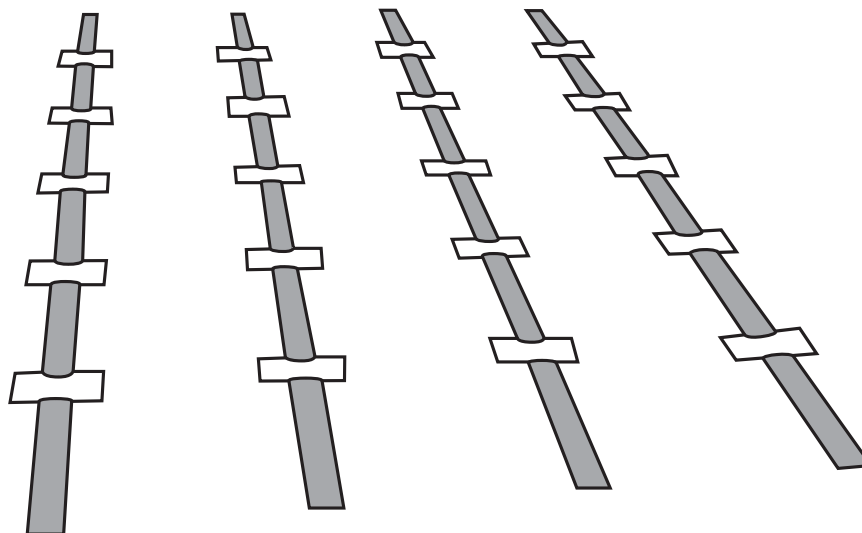
## Installation

### 1 Slide Joiners into Aluminum Brackets to Assemble Grid



### 2 Assemble Vertical Lengths

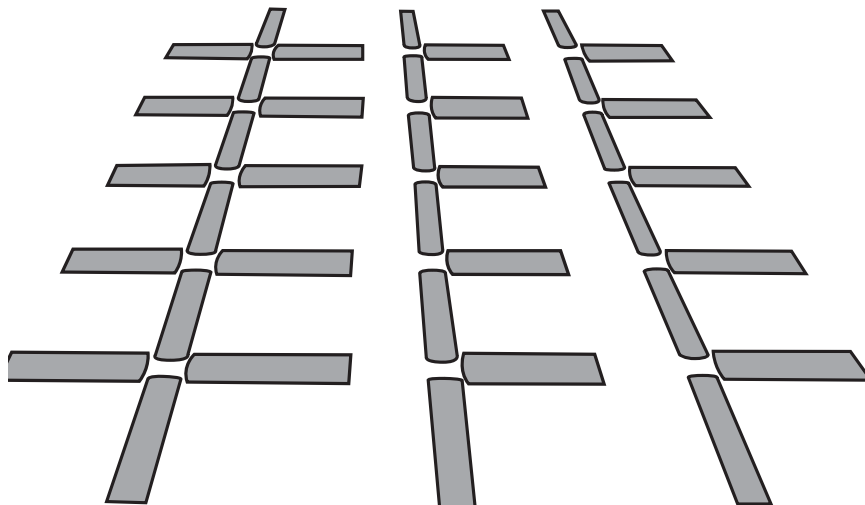
Start by assembling all the full vertical lengths of the frame as shown above and lay them out next to each other. The grid is best assembled on a large table or floor to avoid possible damage during assembly.



## Installation

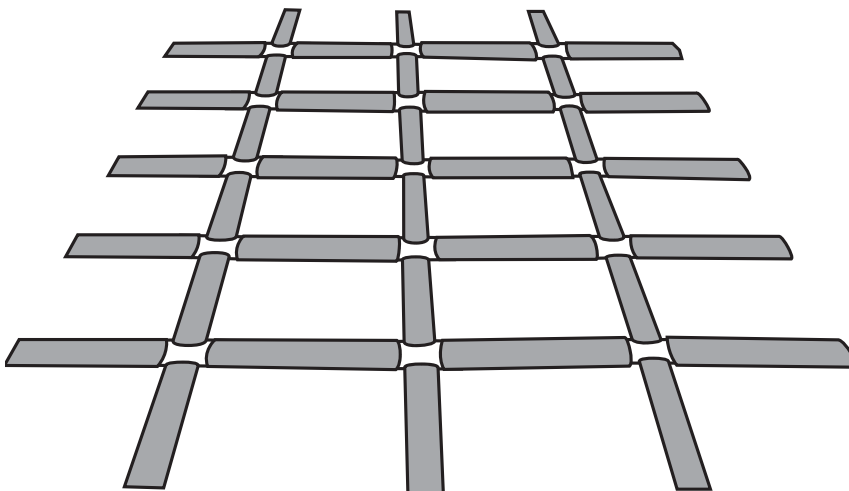
### 3 Attach Horizontal Brackets

Attach horizontal brackets onto the joiner tabs sticking out on the right side of each vertical length, as above. For the first length on the left, attach horizontal brackets onto the tabs on the left side as well



### 4 Join Horizontal Brackets Between Vertical Lengths

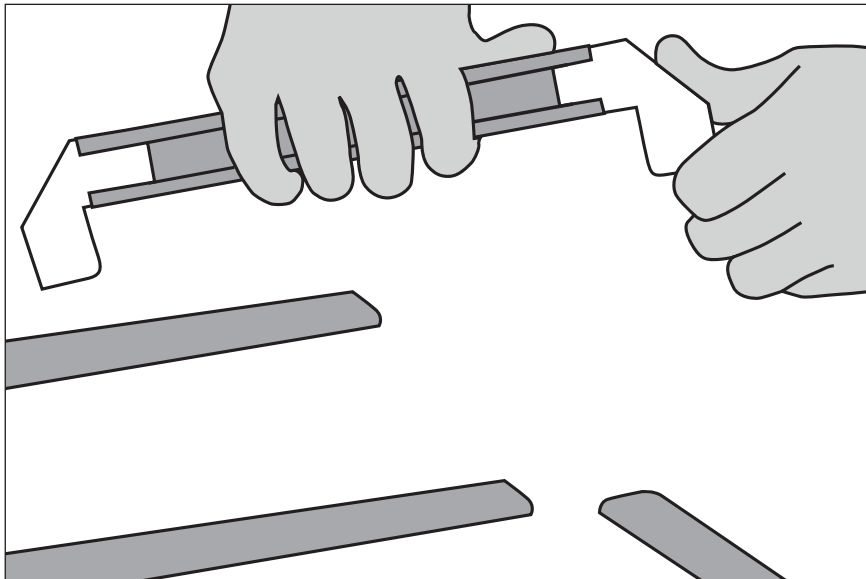
Join the horizontal brackets on one vertical length to the tabs on the next length as shown above. For large wall areas it may be easier to assemble the grid in smaller sections, we recommend a full vertical height by 4-6 tiles wide.



## Installation

### 5 Attach Corner Joints

Attach corner joiners to each end of an aluminum bracket as shown above. Following the instruction layout supplied, put together enough of these to form the edges of the mounting grid.

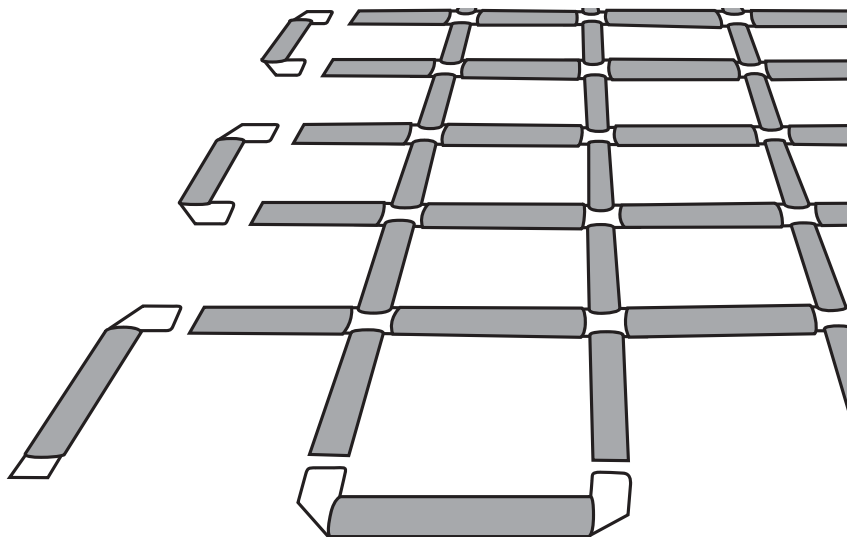


*Depending on the size of the Wovin Wall it may be useful to fit a temporary rail onto the wall to allow the grid to be supported while it is being fitted.*

*If your wall is particularly long we suggest building the grid in stages and assembling it on the wall progressively. This will help prevent breakages by trying to lift and fix a large grid.*

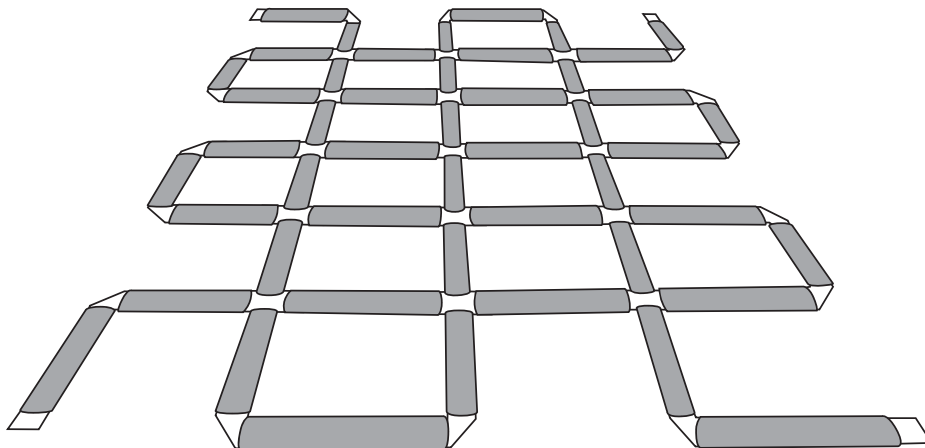
### 6 Attach Corner Brackets Around Edges

Following the instruction layout supplied, attach brackets with corner joiners around the edges as shown below.



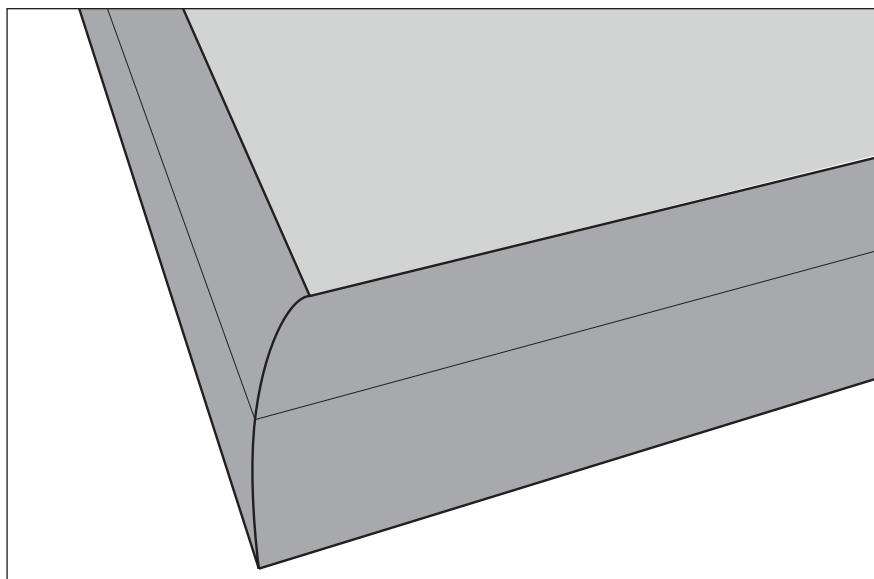
## Installation

### **7** Finished Grid Should Have Every Second Bracket Missing Around Perimeter



### **8** Edging- *Optional*

If you have ordered standard or deluxe edging to create an outside border you will need to screw it in place on the wall prior to mounting the grid. This will help you to locate the grid on the wall.



## Installation

### 9 Install the Grid

Carefully lift the completed grid and position on the wall. Fasten with screws through the holes in the joiners as shown above. If you have assembled your wall in smaller sections, screw the first section to the wall, then slide the next section onto the joiner tabs and fasten it in place as shown in diagram 8. Continue until all sections are fastened.

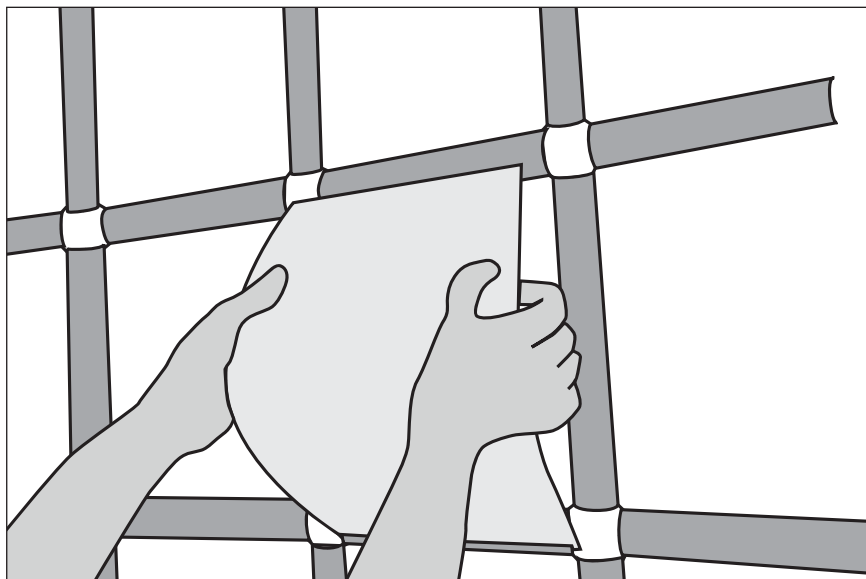


If you have attached any optional edging you will need to leave screws out of the joiners around the very edge.

**Important:** Once the entire grid is assembled within the frame, carefully push all pieces of the grid outwards until all perimeter pieces of the grid are fitting neatly inside the edging. When you are happy that the grid has been expanded evenly over the entire area fix it to the wall using the 25 mm chipboard screws in every plastic joiner.

### 10 Install Tiles

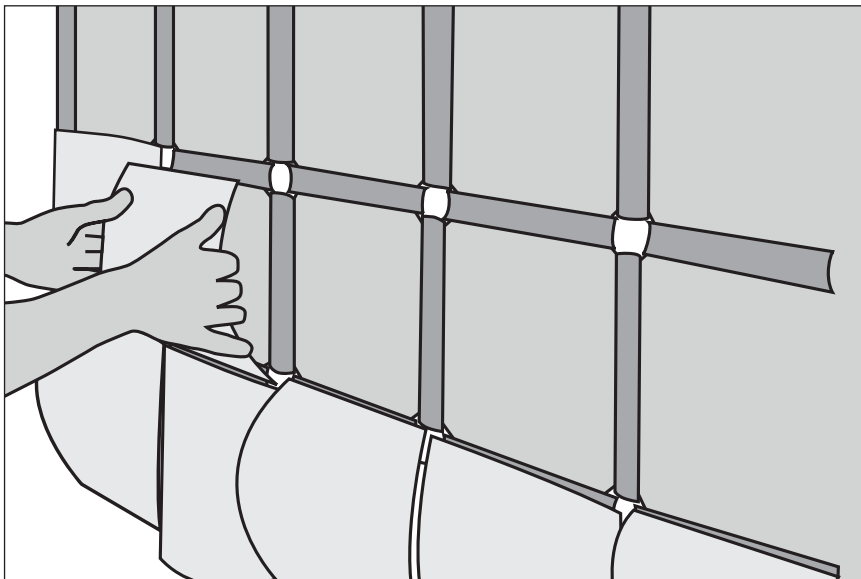
Tiles clip into the outermost ridge of each bracket, as shown below, alternating between horizontal and vertical alignment.



## Installation

### 11 Alternate Between Horizontal and Vertical Tiles

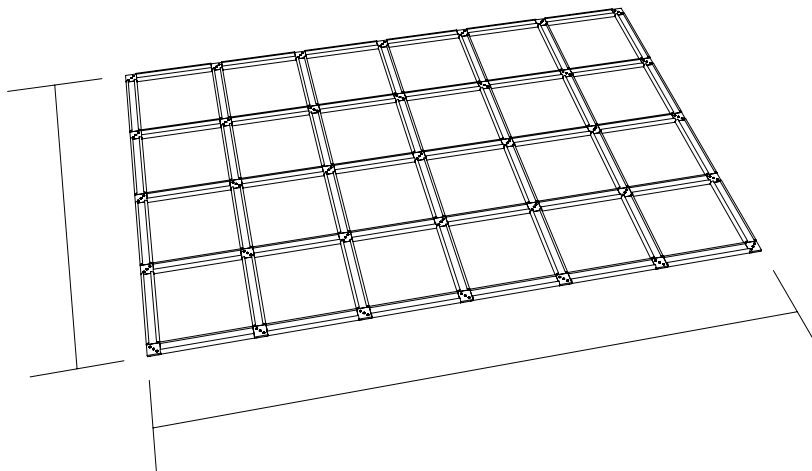
*Note: If you are using Standard edging, every second tile around the perimeter will overhang the edging. If you are using Deluxe edging, some of your perimeter tiles will have been trimmed and packed separately in the box so you can identify them.*



## Backlighting Installation

### 1 Check Dimensions

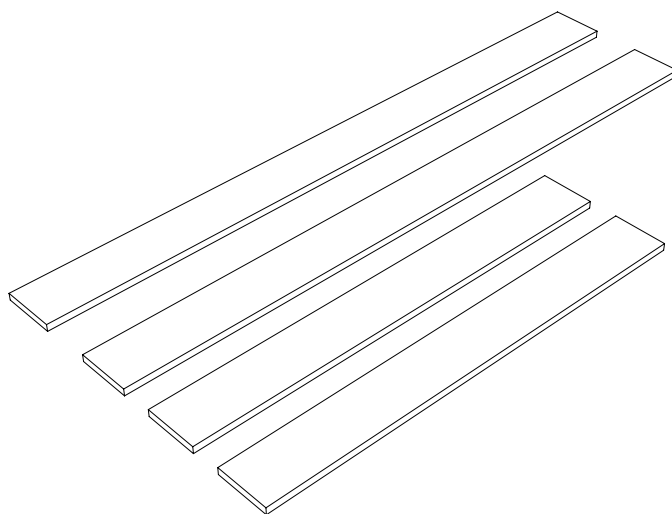
Double check overall length of mounting grid and then add 5 mm to both dimensions to get inside finished size of light box frame. Grid dimensions can be found earlier in this document.



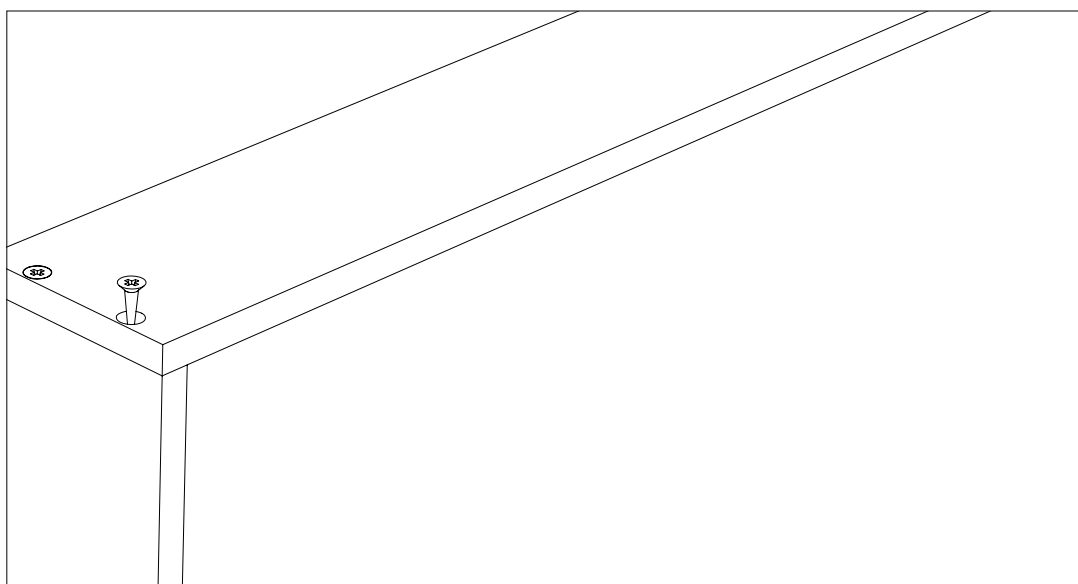
### Backlighting Installation

#### 2 Cut Material to Size

Cut 16 mm ( $\frac{5}{8}$ " ) MDF or melamine (provided by others) to minimum width of 120 mm ( $4\frac{3}{4}$ " ), and length to size for backlighting frame.



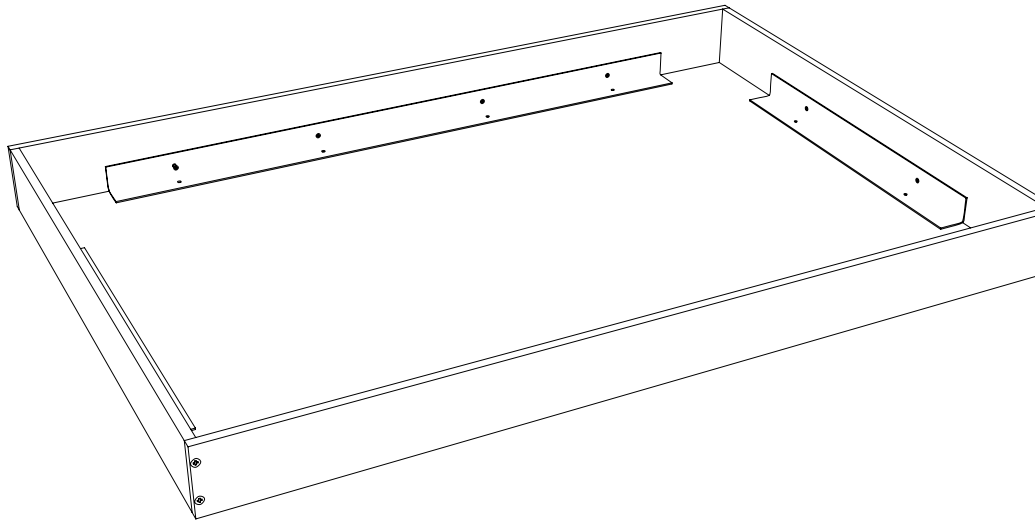
#### 3 Screw MDF Frame Together



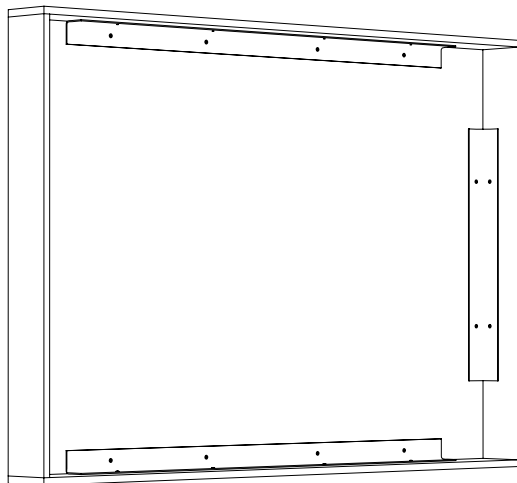
### Backlighting Installation

#### 4 Prepare Frame for Attaching to Wall

Metal angles (provided by others) may work well.



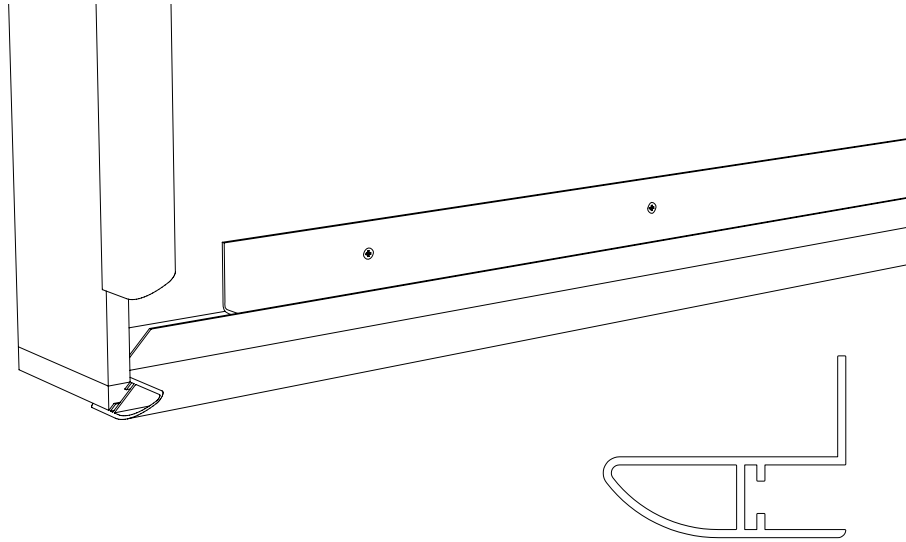
#### 5 Attach Frame to Wall



## Backlighting Installation

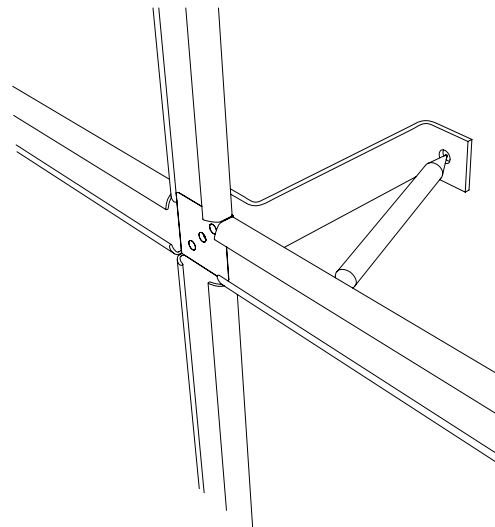
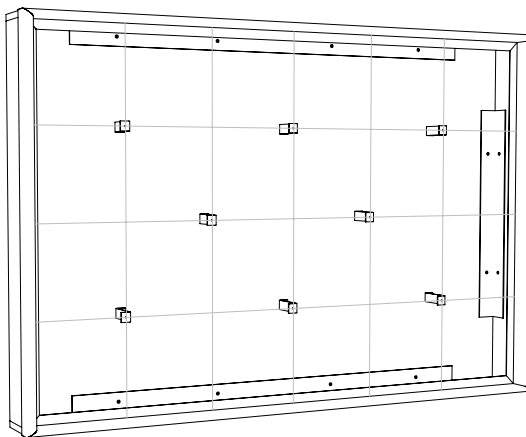
### 6 Add Adhesive

Apply a line of construction adhesive to the top face of the MDF lightbox and slide edging in place. Attach pre-cut pre-mitered wovin wall frame (deluxe recommended) over edge of MDF.



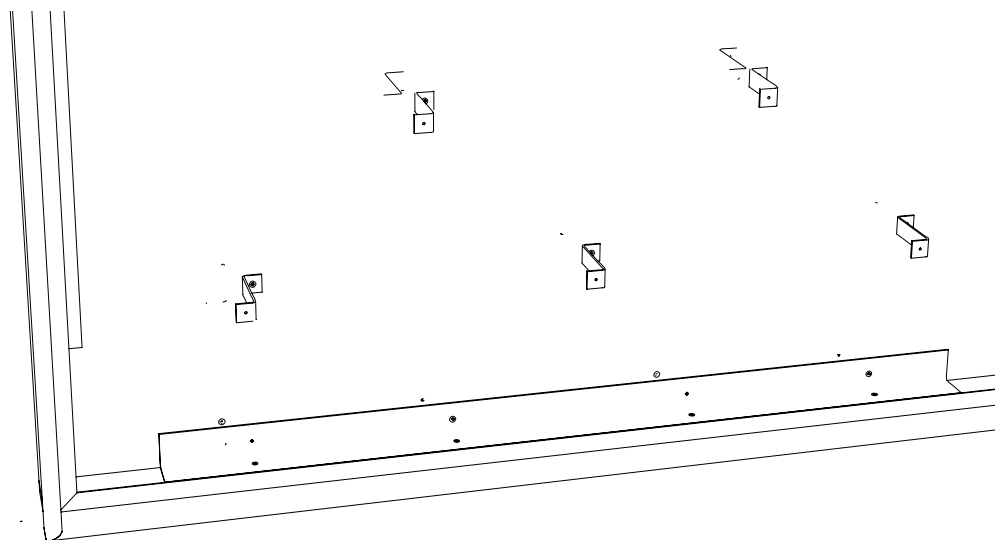
### 7 Placement

Place Wovin Wall grid over the frame and mark wall attachment points. Standoffs will be placed as shown, at every other grid intersection point.



### Backlighting Installation

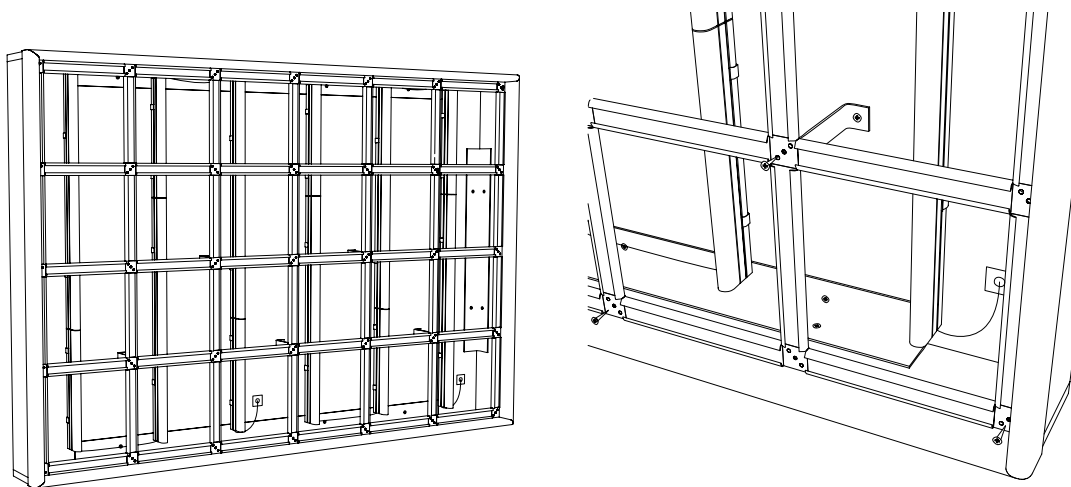
#### 8 Install Standoffs at Desired Locations on Wall



#### 9 Attach Fluorescent Fixtures

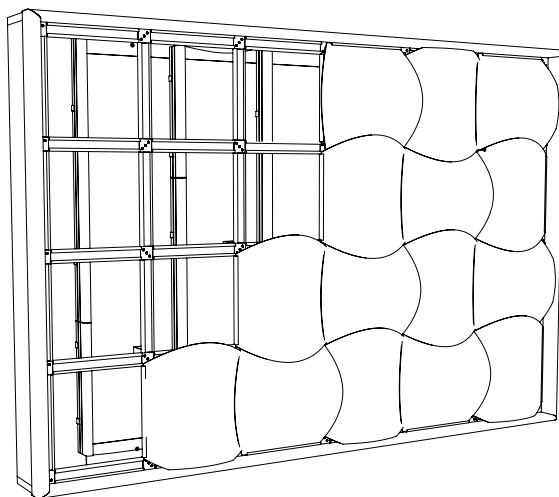
### Backlighting Installation

#### 10 Install the Grid in the Frame and Attach to Installed Standoffs



#### 11 Snap Tiles Into Grid

If fitting customized print tiles, use numbered layout sheet to ensure tiles are in correct position and orientation.



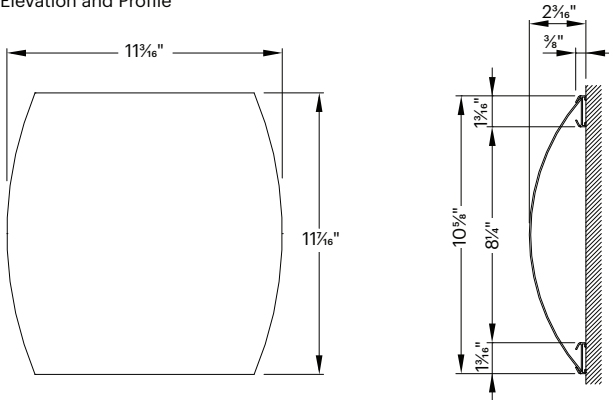
### Product Description

Wovin Wall is a modular system which can be extended in any direction to suit most spaces. This elegant and lightweight 3-Dimensional interior feature system is easy to install and can be fixed to almost any wall or ceiling. For interiors which change frequently (such as exhibition and retail spaces), the modular nature of the Wovin Wall product is the perfect medium to reflect new color schemes, product launches or seasonal changes.

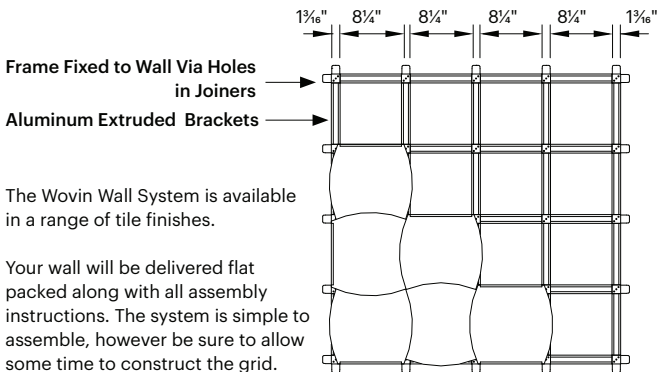
### Specification

#### Large Standard Tile

Tile Elevation and Profile

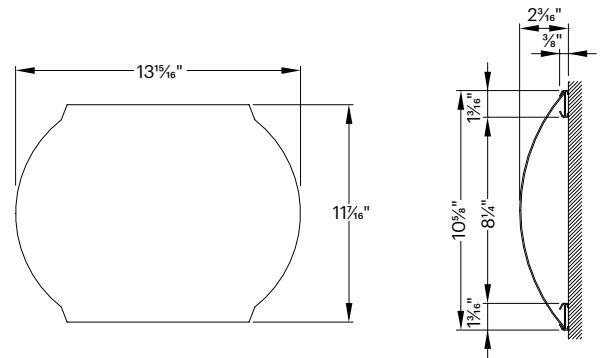


Example Configuration

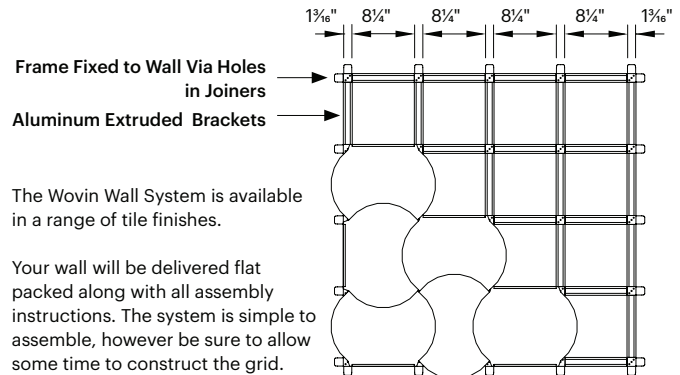


#### Large Oval Tile

Tile Elevation and Profile

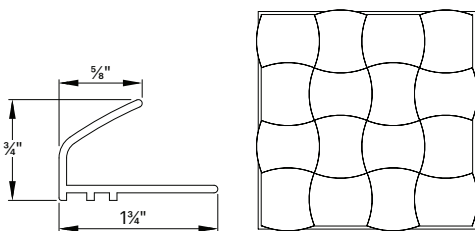


Example Configuration



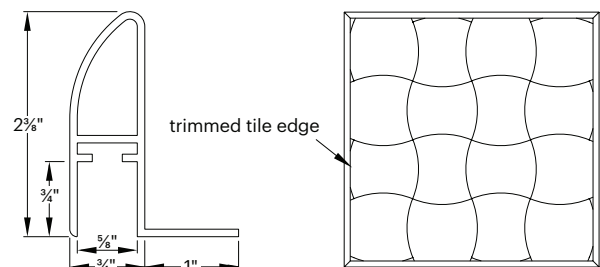
### Standard Edging

The Wovin Wall System can be ordered with Standard Edging which is made from extruded Aluminum. This can either be anodized to retain the Aluminum aesthetic (usually with a satin finish) or it can be powder coated to achieve a customized color frame. All aluminum extrusions are made using 70% pre-consumer recycled content.



### Deluxe Edging

The Wovin Wall System can be ordered with Deluxe Edging which is made from extruded Aluminum. This can either be anodized to retain the aluminum aesthetic (usually with a satin finish) or it can be powder coated to achieve a customized color frame. Tiles along the edge are trimmed to sit neatly within the boundaries of the frame as shown.

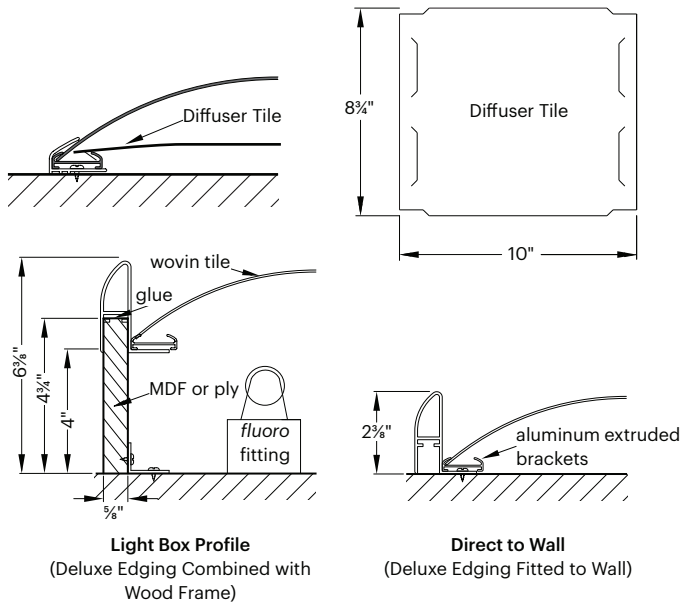


## Product Description cont...

### Backlighting with Deluxe Edging

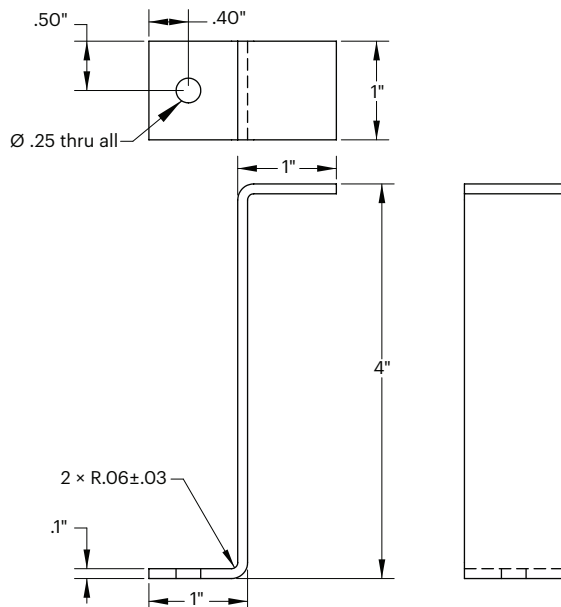
Light box application using standard shaped tiles will, if viewed from an angle, show the light fittings installed behind the grid. Oval shaped tiles, with their closer overlap, will hide most of the light fittings. Also, the 3form diffuser tile can be used to hide the light fittings completely. The Deluxe Edging can either be mounted directly to the existing wall or can be used to create a light box by fitting the edging to a timber frame which provides clearance for fluorescent light fittings.

**Note:** Light box to be built on-site using a wood frame (not provided by 3form)



### 4" Wall Bracket

To achieve additional distance, use blocking behind stand-offs.



### Measurement Guide For The Wovin Wall System

Due to the interlocking nature of the Wovin Tiles and the various choices available for tiles and frames, we suggest you use the table provided below to assist you in measuring up correctly for your Wovin Wall. All measurements in inches. Please note that these dimensions are not exact and are meant to be used as a general reference.

Number of Interlocking Tiles	Size of Mounting Grid with No Frame	Mounting Grid with Standard Frame
1	10-5/8"	10-7/8"
2	20-1/16"	20-5/16"
3	29-1/2"	29-3/4"
4	38-15/16"	39-3/16"
5	48-3/8"	48-5/8"
6	57-13/16"	58-1/16"
7	67-1/4"	67-1/2"
8	76-11/16"	76-15/16"
9	86-1/8"	86-3/8"
10	95-9/16"	95-13/16"
11	105"	105-1/4"
12	114-7/16"	114-11/16"
13	123-7/8"	124-1/8"
14	133-5/16"	133-9/16"
15	142-3/4"	143"
16	152-3/16"	152-7/16"
17	161-5/8"	161-7/8"
18	171-1/16"	171-5/16"
19	180-1/2"	180-3/4"
20	189-15/16"	190-3/16"
Each Incremental Tile**	9-7/16"	9-7/16"

Number of Interlocking Tiles	Fully Assembled with Standard Frame (Creates a Staggered Edge)		Fully Assembled W/Deluxe Frame Standard/Oval Tiles
	Standard Tiles	Oval Tiles	
1	11-7/16"	13-15/16"	12-1/8"
2	20-7/8"	23-3/8"	21-9/16"
3	30-5/16"	32-13/16"	31"
4	39-3/4"	42-1/4"	40-7/16"
5	49-3/16"	51-11/16"	49-7/8"
6	58-5/8"	61-1/8"	59-5/16"
7	68-1/16"	70-9/16"	68-3/4"
8	77 1/2"	80"	78-3/16"
9	86-15/16"	89-7/16"	87-5/8"
10	96-3/8"	98-7/8"	97-1/16"
11	105-13/16"	108-5/16"	106-1/2"
12	115-1/4"	117-3/4"	115-15/16"
13	124-11/16"	127-3/16"	125-3/8"
14	134-1/8"	136-5/8"	134-13/16"
15	143-9/16"	146-1/16"	144-1/4"
16	153"	155-1/2"	153-11/16"
17	162-7/16"	164-15/16"	163-1/8"
18	171-7/8"	174-3/8"	172-9/16"
19	181-5/16"	183-13/16"	182"
20	190-3/4"	193-1/4"	191-7/16"
Each Incremental Tile**	9-7/16"	9-7/16"	9-7/16"

\* No discrepancy between standard and oval tiles, separate columns unnecessary

\*\*Added Information

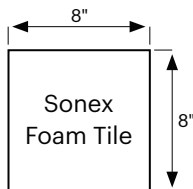
## Product Description cont...

### Flammability and Smoke Test Results

Wovin Wall materials have been independently tested and meet the criteria and fire rating for approved interior finishes and light transmitting resin materials as described by the 2015 International Building Code.

NFPA 286 (Corner Burn)	Result	Rating
Varia Ecoresin	Pass	Pass (Equivalent to Class A)

ASTM E84	Aluminum Finishes	Rating
Aluminum Finishes Flame Spread Smoke generated	5 25	Class A: 0-25 <450
Wood Veneer Flame Spread Smoke generated	65 55	Class B: 26-75 <450
Color Laminate Flame Spread Smoke generated	60 35	Class B: 26-75 <450
Felt Flame Spread Smoke generated	65 125	Class B: 26-75 <450
Elemental Flame Spread Smoke generated	35 75	Class B: 26-75 <450



### Sonex Foam Tile

Wovin Wall is available with an optional Sonex Foam tile for enhanced acoustical performance. The foam tile is attached between the grid openings, behind the wovin wall tiles. It uses a peel and stick adhesive on the back of each tile, making for easy installation direct to the wall. Sonex foam is made from lightweight porous melamine. It meets all ASTM E84 requirements for flame spread and smoke density and it passes the aggressive new UL 1715 room fire exposure test. Its ignition temperature is 1120°F.

### Sonex Foam Physical Properties

Tensile Strength	8 psi (ASTM D3574-77)
Density	0.7 lb/cubic ft.
Elongation	8% (ASTM D3574-77)
Thermal Insulation (R-Value)	4.2
Temperature Stability	0-302°F

### Acoustic Properties

Wovin Wall has been tested to ASTM C423-07a "Measurement of Sound Absorption in a Reverberation Chamber." ASTM C423-07a results are reported as a Noise Reduction Coefficient (NRC). An NRC measures how much sound is absorbed by Wovin Wall at a given size. Materials receive a rating between 0 and 1, with 1 being best. The NRC is calculated as an average of the Sabine Absorption Coefficients at 250, 500, 1000 and 2000 Hz.

### Sabine Absorption Coefficients

Frequency, HZ	W/O Sonex	W/ Sonex
NRC - Noise Reduction Coefficient	0.55	0.70
100	0.07	0.07
125	0.04	0.08
160	0.08	0.17
200	0.11	0.21
250	0.21	0.41
315	0.56	0.93
400	0.95	1.13
500	1.10	1.10
630	0.71	0.87
800	0.46	0.83
1000	0.55	0.75
1250	0.34	0.63
1600	0.39	0.59
2000	0.39	0.60
2500	0.36	0.55
3150	0.30	0.50
4000	0.26	0.44
5000	0.20	0.37

### Available Finishes

Wovin Wall is available in a number of finishes. To view all available finishes, go to [http://studioby3form.com/wovin\\_wall/materials/](http://studioby3form.com/wovin_wall/materials/)

### Aluminum Material

Aluminum finishes are designed for vertical interior applications where a special accent is required or a special mood is desired. The surface of the aluminum group is that of a fine finished metal, and are composed of a colored aluminum decorative layer pressed over impregnated phenolic resin kraft paper core sheets. The decorative aluminum is either anodized or epoxy coated to resist tarnishing.

Aluminum finishes are intended for interior use only, and are not to be used in areas with high humidity, temperatures over 150°F or direct sunlight.

### Color Laminate Material

Color Laminates are designed for vertical interior applications, and are composed of a decorative surface paper impregnated with phenolic resin.

### Wood Veneer Material

Wood Veneer panels feature composite wood technology. This process creates the look, feel and warmth of wood while eliminating imperfections and increasing performance and consistency. Designed for vertical interior applications only. Exposure to UV light can cause fading and color change over time.

### Felt Finish

The felt finish is a sustainable option that is extremely durable (Martindale test = 15,000) and made from 100% Merino wool. The wool is biodegradable and OEKO-Tex certified and is an excellent choice for thermal and sound insulation applications.

### Elemental Family

The elemental collection is a sustainable option that is made from 100% post-consumer recycled material. This 100% bio based material is also free of toxins and is Cradle-to-Cradle Bronze compliant. With its beautiful look and Class B fire rating, it's a great sustainable choice.