3form

Contents Overview

(×24)

Standard Tile
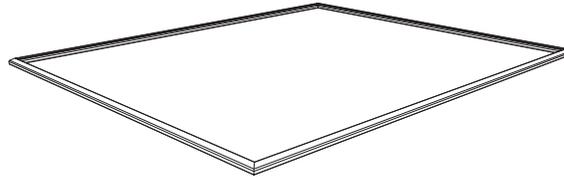
(×1)

Standard Frame
0-80-556

(×20)

Aluminum Brackets
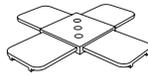
(×15)

4-Way Joiner
3-80-001

(×16)

Corner Joiner
3-80-002

(×4)

Single Joiner
3-80-003

Tile Elevation and Profile

11³⁄₁₆"

11⁷⁄₁₆"

2³⁄₁₆"

1³⁄₁₆"

³⁄₈"

10⁵⁄₈" 8¼"

1³⁄₁₆"
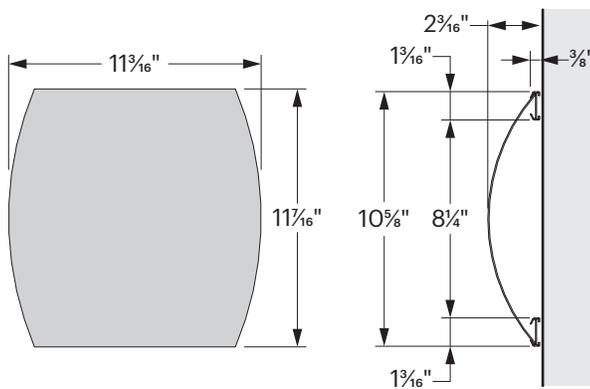
Standard Edging

The Wovin Wall System comes 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 (additional costs and lead times would apply). All aluminum extrusions are made using 70% pre-consumer recycled content.

⁵⁄₈"

¾"

1¾"
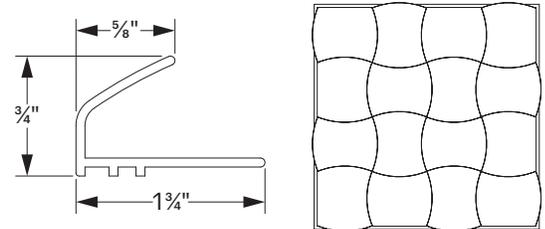
Required Tools
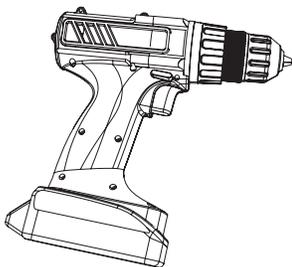

Drill

PH2 Bit
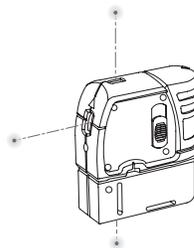
Laser Level

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

Drawings are meant to be a guide and may not match your exact installation.

1   Assemble Mounting Grid

a   Slide the 4-way joiners (3-80-001) into the groove in the back of the aluminum brackets.
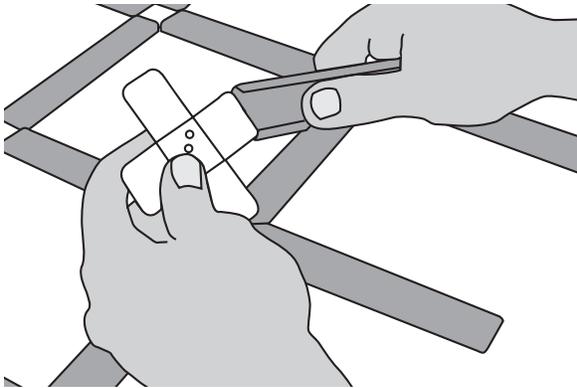
b   Assemble all the full vertical lengths of the frame and lay them out next to each other. The grid is best assembled on a large table or floor to avoid possible damage during assembly.
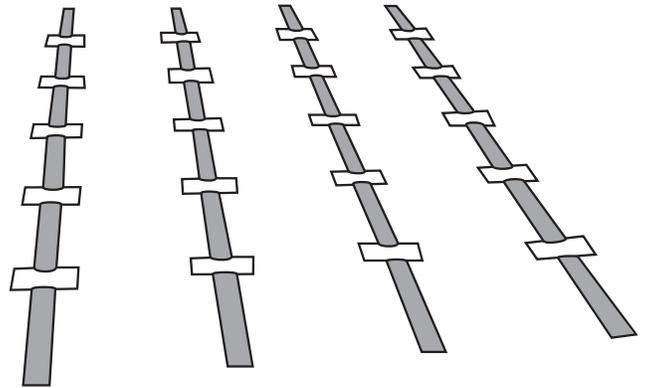
c   Attach horizontal brackets onto the joiner tabs sticking out on the right side of each vertical length. For the first length on the left, attach horizontal brackets onto the tabs on the left side as well
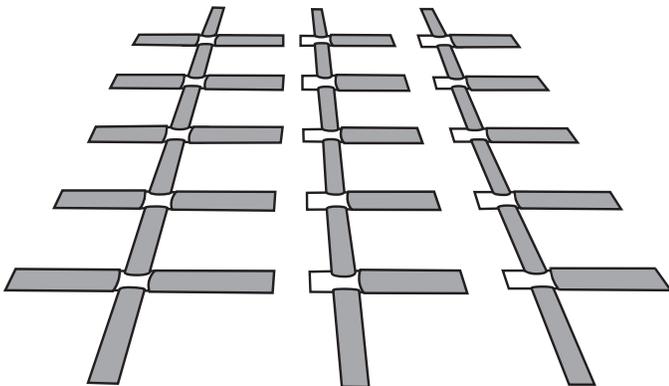
d   Join the horizontal brackets on one vertical length to the tabs on the next length. For large wall areas it may be easier to assemble the grid in smaller sections, we recommend a full vertical height by 4-6 tiles wide.
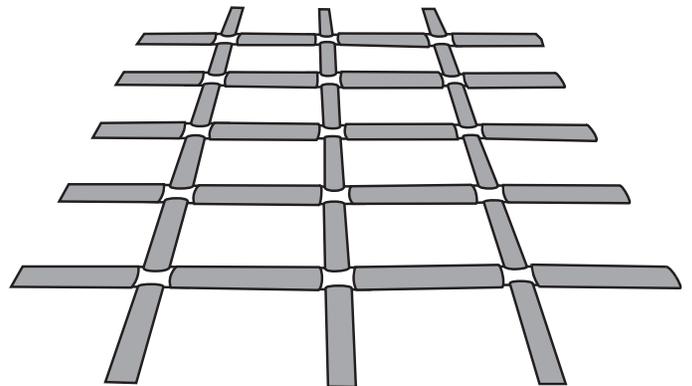
Installation

1 Assemble Grid *cont...*

e Attach corner joiners (3-80-002) to each end of an aluminum bracket. Put together enough of these to form the edges of the mounting grid.

For the outer 4 corners of the grid, attach a single joiner (3-80-003) instead of the corner joiner.
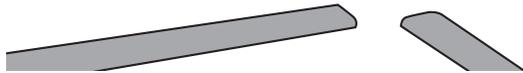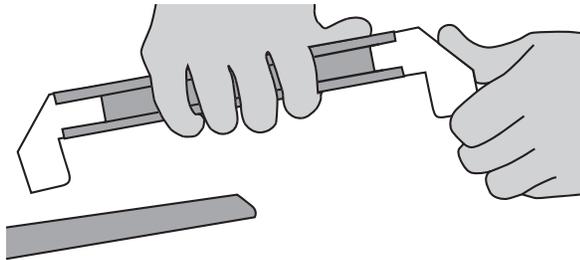
Depending on the size of the Wovin Wall it may be useful to fit a temporary rail onto the wall to allow the grid to be supported while it is being fitted.

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.

f Attach brackets with corner joiners around the edges.
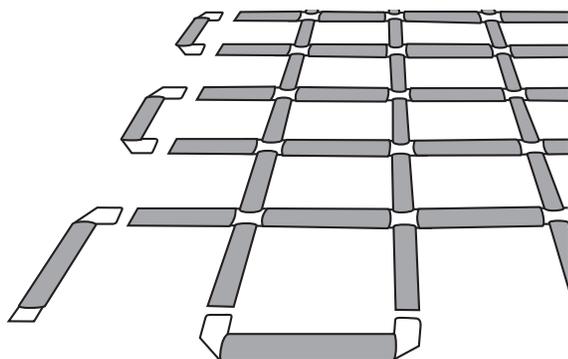
g Finished grid should have every second bracket missing around the perimeter.
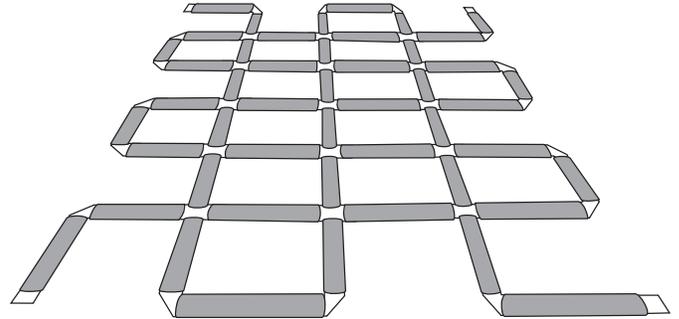
2 Attach Frame to Wall

Screw standard frame in place on the wall prior to mounting the grid. This will help you to locate the grid on the wall.
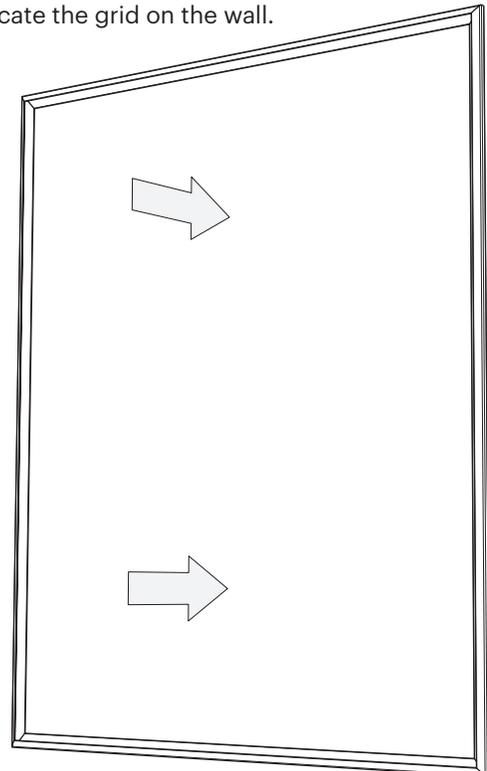
Installation

3 Install the Grid

Carefully lift the completed grid and position on the wall. Fasten with screws through the holes in the joiners. If you have assembled your Wovin 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. 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.*

4 Install Tiles

a Tiles clip into the outermost ridge of each bracket, as shown below, alternating between horizontal and vertical alignment.
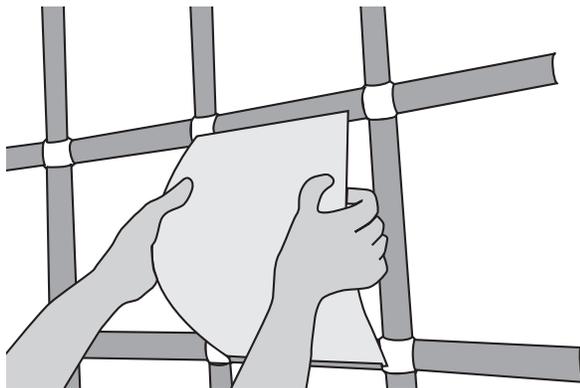
b Alternate between horizontal and vertical tiles.
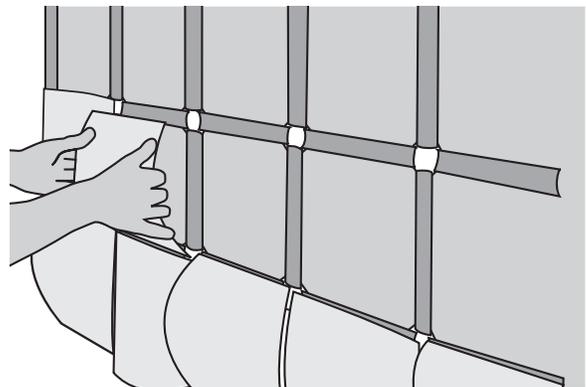
Note: Every second tile around the perimeter will overhang the edging.

Product Description & Specification

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 wall. 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.

Wovin Wall System Measurement Guide

Due to the interlocking nature of the Wovin Tiles and the various choices available for tiles and frames, use the table provided below to correctly determine the dimensions of your Wovin Wall.

*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	Fully Assembled with Standard Frame (Staggered Edge)
1	10-5/8"	10-7/8"	11-7/16"
2	20-1/16"	20-5/16"	20-7/8"
3	29-1/2"	29-3/4"	30-5/16"
4	38-15/16"	39-3/16"	39-3/4"
5	48-3/8"	48-5/8"	49-3/16"
6	57-13/16"	58-1/16"	58-5/8"
7	67-1/4"	67-1/2"	68-1/16"
8	76-11/16"	76-15/16"	77-1/2"
9	86-1/8"	86-3/8"	86-15/16"
10	95-9/16"	95-13/16"	96-3/8"
11	105"	105-1/4"	105-13/16"
12	114-7/16"	114-11/16"	115-1/4"
13	123-7/8"	124-1/8"	124-11/16"
14	133-5/16"	133-9/16"	134-1/8"
15	142-3/4"	143"	143-9/16"
16	152-3/16"	152-7/16"	153"
17	161-5/8"	161-7/8"	162-7/16"
18	171-1/16"	171-5/16"	171-7/8"
19	180-1/2"	180-3/4"	181-5/16"
20	189-15/16"	190-3/16"	190-3/4"
Each Incremental Tile**	9-7/16"	9-7/16"	9-7/16"

Flammability and Smoke Test Results - *Building Code Approvals*

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.

Material	Test		Wovin Wall	Result
Varia Ecoresin	NFPA 286 (Corner Burn)		Pass	Pass (Equivalent to Class A)
Aluminum Finish	ASTM E84	Flame Spread Smoke Developed	5 25	Class A: 0-25 <450
Wood Veneer	ASTM E84	Flame Spread Smoke Developed	65 55	Class B: 26-75 <450
Color Laminate	ASTM E84	Flame Spread Smoke Developed	60 35	Class B: 26-75 <450
Merino Felt	ASTM E84	Flame Spread Smoke Developed	65 125	Class A: 26-75 <450

Product Description & Specification *cont...*

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.

8"

Sonex Foam Tile

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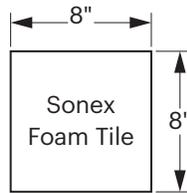
| Sonex Foam Physical Properties	
Tensile Strength	8 psi (ASTM D3574-77)
Density	0.7 lb/cubic ft.
Elongation	8% (ASTM D3574-77)
Thermal Insulation (R-Value)	4.2
Temperature Stability	0-302°F

Sabine Absorption Coefficients

Frequency (Hz)	w/o Sonex (Sabins/ft²)	w/Sonex (Sabins/ft²)
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

Sound Absorption Test Results

Material	Test - ASTM C 423	Result
w/o Sonex	Noise Reduction Coefficient	0.55
w/ Sonex	Noise Reduction Coefficient	0.70

Example Configuration

1 3/16" 8 1/4" 8 1/4" 8 1/4" 8 1/4" 1 3/16"

Frame Fixed to Wall via Holes in Joiners →

Aluminum Extruded Brackets →

Your wall will be delivered flat packed along with all assembly instructions. The system is simple to assemble, however be sure to allow some time to construct the grid.
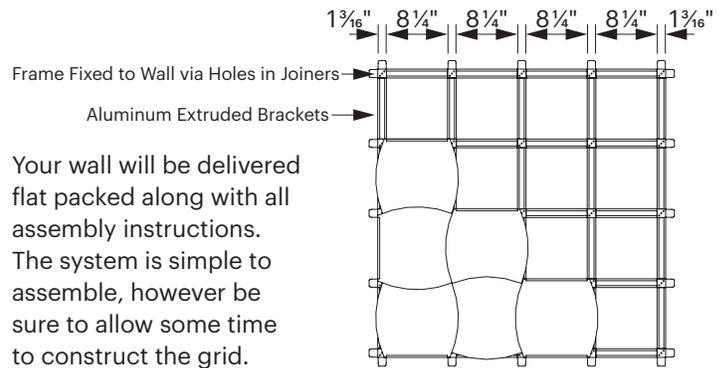
Cleaning Instructions

Wovin Wall should be cleaned periodically. A regular, seasonal cleaning program will dramatically help prevent noticeable weathering and dirt build-up. 3form recommends the use of the following common cleaning products: Windex, Formula 409, Simple Green, Fantastik, Virex, 10:1 Water/Bleach Solution.

Rinse the sheets with lukewarm water. Remove dust and dirt from Wovin Wall Tiles with a soft cloth or sponge and a solution of mild soap and/or liquid detergent in water. A 50:50 solution of isopropyl alcohol and water also works well. Rinse thoroughly with lukewarm water.

Always use a soft, damp cloth to blot dry. Rubbing with a dry cloth can scratch the material and create a static charge. Avoid scouring compounds, gasoline, benzene, acetone, carbon tetrachloride, certain deicing fluids, lacquer thinner or other strong solvents.

# Product Description & Specification *cont...*

Available Finishes

Wovin Wall is available in a number of finishes for interior applications. To view all available finishes go to https://www.3-form.com/system/wovin_wall/

Aluminum Material - *Vertical Interior Applications Only*

Aluminum finishes are designed as a special accent or to create a special mood. The surface of the aluminum group is 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 not to be used in areas with high humidity, temperatures over 150°F or direct sunlight.

Copper ww	Gold ww	Light Bronze	Matte Gray	Natural	Smoke

Color Laminate Material - *Vertical Interior Applications Only*

Color Laminates are composed of a decorative surface paper impregnated with phenolic resin.

Black Brushed	Cloud Brushed	Dove Gray	Gray Brushed
Red Brushed	Slate Brushed	White Gray	White Gloss

Polyresin Material

Caribbean	Cerulean	Chill	Concrete	Flame	Frappe
Graphite	Jet	Matador	String	Whip	

Textiles Material

Courier	Spider

Artisan Material

Mari Seamless

Wood Veneer Material - *Vertical Interior Applications Only*

Wood Veneer panels feature composite wood technology, creating the look, feel and warmth of wood while eliminating imperfections and increasing performance and consistency. Exposure to UV light can cause fading/color change over time.

American Walnut Crown	Asian Cherry	Aspen	Black Oak	Cherry	Ebony
Gray Oak	Maple	Old English Mahogany	Teak Sabbiata	Wenge Crown	White Oak ww

Merino Felt Material

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

Avocado	Black	Bordeaux	Camel	Charcoal	Clover Green
Crimson	Dark Brown	Deep Turquoise	Goldenrod	Heather Black	Heather Charcoal
Heather Dark Brown	Heather Gray	Heather Taupe	Hunter Green	Latte	Liberty Blue
Midnight Blue	Milky White	Orange	Peacock	Platinum	Putty
Raspberry Jam	Red	Royal Purple	Sky Blue	Taupe	Teal

Varia: 3form Color Portfolio

Wovin Wall can be specified in any of 3form's 250 Varia color options

http://www.3-form.com/materials/varia_ecoresin/color/