

Product Description and Specification

Profile is a collection of sophisticated tiles which bring impact to spaces with dramatic pattern, texture and color. This stunning 3 dimensional product is created with CNC machining and advanced thermoforming capabilities.

Features and Benefits

- A variety standard patterns and material options available
- Rich finishes available or finish on site with primer and paint
- Custom patterns and finishes available
- Cost-effective decorative feature
- Easy to specify, easy to install
- Standard Class B rating (Class A fire-rated available)

Available Materials

MDF	Wood - Baltic Birch
Fire-Rated MDF	Wood - Poplar
Chroma	

**Wood options are both plywood made from real wood veneers*

Finish Options

MDF: Standard Finish - 3form standard finish wrapping material is made from Polyvinyl Chloride (PVC). Pattern direction on Wood Grain vinyl wraps are parallel to the 96" side of a full sheet.

MDF: Felt - Made from 100% Merino Wool Felt. 30 Colors.

MDF: Ready-To-Paint - 3form sands and primes the tiles, which are then ready to paint in the field.

MDF: Unfinished - Tiles are delivered as carved MDF to finish (prime and paint) in the field. 3form recommends using water-based paints.

Wood: Standard Finish - sanded and finished with clear matte lacquer.

Available Patterns (see page 3)

Flank	Quarry	Swoon
Glide	Subway	Verve

Tile Weight

Tile Pattern	Wrapped MDF	Baltic Birch	Poplar
Flank	Various	Various	Various
Glide	0.6 lb (0.27 kg)	0.5 lb (0.25 kg)	0.4 lb (0.18 kg)
Quarry	0.8 lb (0.36 kg)	0.7 lb (0.33 kg)	0.5 lb (0.24 kg)
Subway	0.6 lb (0.27 kg)	0.5 lb (0.25 kg)	0.4 lb (0.18 kg)
Swoon	0.2 lb (0.09 kg)	0.2 lb (0.08 kg)	0.1 lb (0.06 kg)
Verve	0.6 lb (0.27 kg)	0.5 lb (0.25 kg)	0.4 lb (0.18 kg)

Color Consistency

Unwrapped Profile tiles will **not** have color consistency from tile to tile as they are made using recycled/recovered forest products. Color consistency is not an issue when specifying a film wrapped Profile tile.

Variations in material dye lots will result in slight color differences between samples provided and finished product.

Tile Sizes and Tolerances

Pattern Name	Dimensions
Flank	3.5" × 15.75" (8.9 cm x 40 cm)
	3.5" × 23.38" (8.9 cm x 59.4 cm)
	3.5" × 31.50" (8.9 cm x 80 cm)
	3.5" × 47.25" (8.9 cm x 120 cm)
	3.5" × 71.13" (8.9 cm x 180.7 cm)
Glide	15.50" × 4.62" (39.4 cm x 11.7 cm)
Quarry	15.50" × 4.30" (39.4 cm x 8.9 cm)
Subway	15.50" × 3.50" (39.4 cm x 10.9 cm)
Swoon	8.66" × 5.00" (22.0 cm x 12.7 cm)
Verve	15.50" × 4.55" (39.4 cm x 11.56 cm)

**All dimensions and squareness are subject to a 3/16" (4.7 mm) tolerance. Profile tiles can be up to 3/4" thick. Due to the material thickness a Felt wrap can add up to 1/8" to the specified panel dimension.*

Sheet Yield

One 4' × 8' sheet yields the following quantities of tiles:

Pattern Name	Yield Quantity
Flank	(4) 15.75", (4) 23.38", (4) 31.5", (12) 47.25", (4) 71.13" (All 3.5" wide)
Glide	57 Full Tiles, 24 Half Tiles
Quarry	60 Full Tiles 48 Full Tiles, 20 Half Tiles
Subway	72 Full Tiles 57 Full Tiles, 25 Half Tiles
Swoon	160 Full Tiles
Verve	63 Full Tiles, 24 Half Tiles

Expansion/Contraction Allowances

Like all natural products, Profile Tiles will expand and contract nominally with fluctuations in moisture content. Wood products have a possible linear expansion of ± 0.33%. Tiles will swell (grow) in high humidity and shrink in low humidity applications. 3form recommends the Tiles be installed in a controlled environment where the relative humidity is maintained at 25-55%. Humidity below 20% or above 80% can cause problems.

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Flatness Tolerance

Natural bow or warp is common to all wood products; compensate with proper installation techniques.

Flammability and Smoke Test Results

- Building Code Approvals

Profile Tiles have been independently tested and meet the criteria for approved interior finishes as described in the 2018 International Building Code®.

Material	ASTM E84	Data	Result
Chroma	Flame Spread Smoke Generated	115 150	Class C: 76-150 <450
Fire Rated MDF	Flame Spread Smoke Generated	15 225	Class A: 0-25 <450
Standard MDF - Standard Finish	Flame Spread Smoke Generated	40 400	Class B: 26-75 <450
Standard MDF - Felt	Flame Spread Smoke Generated	40 105	Class B: 26-75 <450
Wood - Baltic Birch	Flame Spread Smoke Generated	70 165	Class B: 26-75 <450
Wood - Poplar	Flame Spread Smoke Generated	40 135	Class B: 26-75 <450
Ready-to-Paint and Unfinished	Not Tested		

In-Field Painting Process

Sand and prime the tile until it is ready to be painted. This may take more than one round of prime/paint. For ReadyToPaint, 3form Fabrication uses the following steps (which can easily be replicated in the field):

- 1 Sand MDF using Norton Contour Sponge medium grit (part #2257 NCSSM)
- 2 Remove dust using an air blower
- 3 Apply Valspar White Vinyl (part #VUW2000) to 4ml using an airless sprayer
- 4 Dry for 25 minutes
- 5 Sand the applied white vinyl using Norton Contour Sponge fine grit (part #2256 NCSSF)
- 6 Remove dust using air blower and tac rag
- 7 Apply Valspar White Vinyl (part #VUW2000) to 4ml using an airless sprayer
- 8 Dry for 25 minutes
- 9 The product is now ready to be painted in the field (this service is not provided by 3form)

***ReadyTo Paint finish:** 3form recommends a water-based paint (ie latex), though some solvent-based paint (ie. lacquer) could also work with this process.

Paint Ready Laminate finish: Use an acrylic-based lacquer paint, after cleaning the panels. Pre-test paint for adhesion as

Cleaning Instructions (Felt Only)

Wool can be cleaned by vacuuming or gently brushing by hand. Please note slight shedding of fibers is normal and not indicative of any defect. These loosened fibers are easily vacuumed away and will decrease over time. If a wet spill should occur, blot to absorb the liquid quickly and avoid absorption. Soiled areas may be cleaned with warm water or a mild dry cleaning solvent. Avoid aggressive rubbing as this can continue the felting process and change the surface appearance of that area.

Cleaning Instructions

Profile 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. Remove dust and dirt from Profile 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. Always use a soft, damp cloth to blot dry. Rubbing with a dry cloth scratches the material and creates static charge. Never use scrapers or squeegees on Profile. Also avoid scouring compounds, gasoline, benzene, acetone, carbon tetrachloride, certain deicing fluids, lacquer thinner or other strong solvents.

Do:

- Apply cleaning solution or water to a clean cloth and wipe resin clean

Do not:

- Use strong solvents, highly alkaline or abrasive cleaning agents
- Clean in hot sun or at elevated temperatures
- Rub with a dry cloth
- Do not completely saturate tile with cleaning solution or water

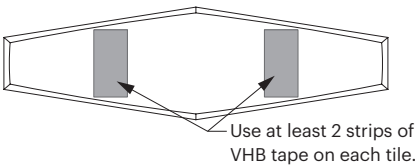
Installation

MDF and Wood Installation

There are a variety of possible ways of installing 3form profile tiles. 3form recommends using VHB Tape for installation of all tiles.

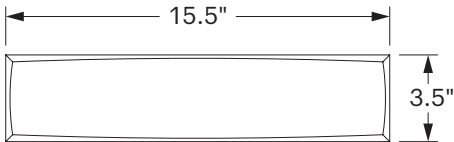
Use 3M VHB tape to secure Profile Tiles to the wall. 3form recommends the use of 3M VHB 4496 which is a white foam double sided tape with permanent adhesive. Full cure time for VHB is 72 hours. Alignment of the tiles prior to curing is important as the tiles may not be re-aligned after curing.

For an immediate cure of the VHB tape you can use 3M Primer 94. If using, apply the primer with a foam brush to the back of the Profile material where the VHB tape is to be applied.

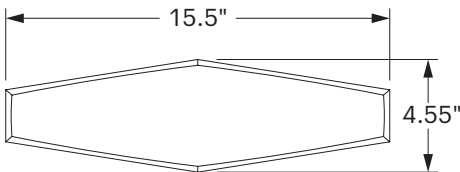


Use at least 2 strips of VHB tape on each tile.

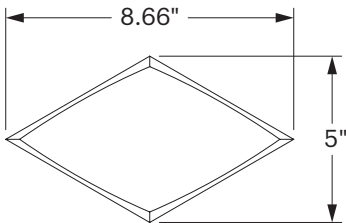
Pattern Overview



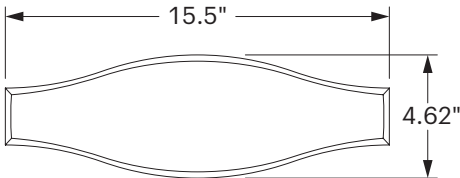
Subway



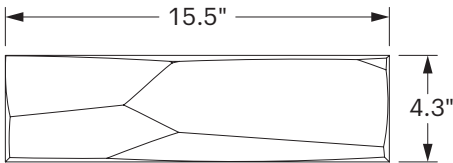
Verve



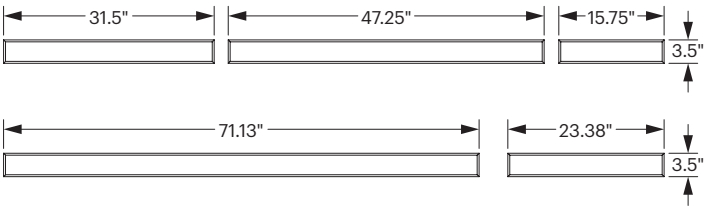
Swoon



Glide



Quarry



Flank

Chemical Resistance of 3form Profile to Select Disinfectants

7 Day Full Immersion Testing @ 73°F (23°C)

Polymer materials are affected by chemicals in different ways. Changes in performance or appearance can be attributed to fabrication methods, exposure conditions, concentration of chemical substances or exposure duration. Such factors can even influence the final effect of substances that 3form Profile Tile is considered “Resistant” to under test conditions. Further details are explained below:

Application of Chemicals

Application from contact, rubbing, wiping, spraying, soaking, etc. Also having an affect is the relative concentration of the chemical in question.

The following data is based on complete immersion of the standard finish PVC wrap in the chemical or reagent shown. Samples remained immersed and were stored at 73°F (23°C) for a period of 7 days. Following the test period the samples were removed from immersion and inspected.

The following table provides indicative performance of the chemical resistance characteristics of the standard profile finish. The following codes are used to describe the chemical resistance characteristics:

R = Resistant

3form Profile is able to withstand the identified compound for long exposure periods (7 days, full immersion)

LR = Limited Resistance

3form Profile is only resistant when in contact with this compound for short periods at room temperature. It is advised that further determination of the effect of the substance be further tested in your particular application.

NR = Not Resistant

3form Profile is not resistant to the compound. The material will swell, craze, haze, dissolve or experience some physical change when exposed to this substance.

Disinfectant* - Reagent	Result
ChemiSwiss SUIclean™	R
ClearSpace powered by PreventX™	NR
Clorox Healthcare® Bleach Germicidal Wipes	NR
Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wipes	NR
Clorox Healthcare® VersaSure™ Alcohol-Free Disinfectant Cleaner Wipes	R
Diversey™ Avert® Disinfectant Cleaner	NR
Diversey™ Oxivir® TB Hospital Grade Disinfectant	R
Diversey™ Virex® Cleaner Disinfectant TB	LR
Diversey™ Virex® II 256 One Step Disinfectant Cleaner and Deodorant	NR
Ecolab® Neutral Disinfectant Cleaner	R
Ecolab® Oxycide Daily Disinfectant Cleaner	R
Ecolab® Quaternary Disinfectant Cleaner	R
PDI® Sani-Cloth® AF3 Germicidal Disposable Wipe	R
PDI® Sani-Cloth® Bleach Germicidal Disposable Wipe	R
PDI® Sani-Cloth® Plus Germicidal Disposable Cloth	R
PDI® Sani-Cloth® Prime Germicidal Disposable Wipe	R
PDI® Super Sani-Cloth® Germicidal Disposable Wipe	LR

**Use recommended cleaners and disinfectant products as directed by the manufacturers*