



MirroFlex™ Structures

Description

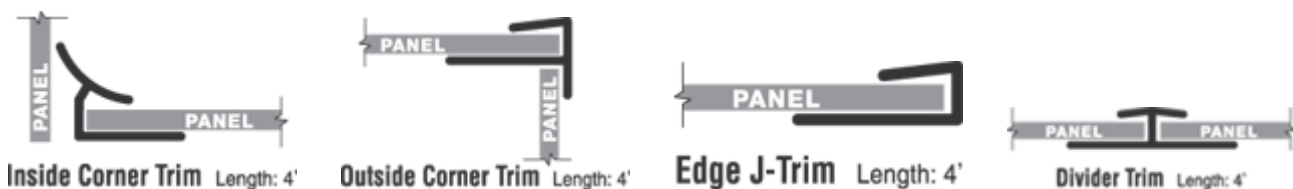
- MirroFlex™ Structures are decorated thermoplastic sheets with high impact resistance and are available in a wide variety of patterns and colors.
- MirroFlex Structures can easily be cut to size with razor knives or scissors. It can also be applied to many substrates with pressure sensitive adhesive strips and be used for retrofits and DIY applications.
- Size - 4' x 8' x .032" (1220 x 2440 x .8 mm). This is a dimensional product, so actual thickness varies by pattern.
- Most products ships with clear protective film.
- UPS Shippable

Applications

- Commercial Market Uses:
 - Office - desks, storage cabinets, reception, etc.
 - Education – cabinets, high impact areas
 - Healthcare – furniture, equipment, high impact areas
 - Hospitality – restaurants, bar & counter fronts, hotels/motels
 - Store & Bank Fixtures
 - Interior Doors, Kiosk Fronts & Elevator Cab Interiors-including high impact areas
 - Wall Panels
- Recreational Market Uses:
 - Boat Interiors
 - Coach Interiors
- Residential Market Uses:
 - Occasional Furniture – tables, cabinets, etc.
 - Novelty and Juvenile Furniture
 - DIY and Renovations

Fabrication

- Use standard tools normally used for fabrication of HPL sheets. Tools such as scissors and razor knives will cut this product. Routers, saw blades and drilling tools for thermoplastics are also suitable.
- Lamination – Like HPL, MirroFlex Structures sheets can be bonded with contact cement, but you must use a product compatible with PVC.
- Adhesives for Walls - Trowel on latex adhesive is available in 1 & 5 gallon pails (solvent-free Titebond® Fast-Grab FRP adhesive from Franklin International).
- MirroFlex Pressure Sensitive Adhesive (double sided) rolls are also available, which bonds MirroFlex sheets to most surfaces. Each roll contains 40 linear feet x 1½” wide (12.15 meters x 38mm).
- Slight imperfections and color variations from sheet to sheet are possible and considered normal. Please inspect each sheet carefully before fabrication to insure it meets your needs.
- Storing Product – Store flat and acclimatize in the same environment for at least 24 hours before fabrication.
- Molding is available to join and finish MirroFlex Structures sheets. Inside corners outside corners, edge trim and universal trim strips are shown below.



- Cleaning and Care – Clean only with warm soapy water. Never use abrasive cleaners.

Testing & Technical Information

NEMA Stain Test	
Item	Results
Steel Wool	Pass
24 Hr Bleach	Pass
24 Hr Ammonia	Pass
Vinegar	Pass
Old English®	Pass
Red Food Coloring	Pass
Lipstick	Pass
Tea	Pass
Olive Oil	Pass
Windex ®Surface	Pass
Formula 409®	Pass
Scotch-Brite® w/Soap	Pass
Sponge w/Bleach	Pass
Sponge w/Windex®	Pass
Pine-Sol®	Slight Effect
Isopropyl Alcohol	Slight Effect

Abrasion Resistance Results
Taber – CS10/1,000 gr. 400 cycles
Falling Sand 5 liters
Number 3 steel wool 60 double rubs
Hoffman Scratch Test 700 gr.

Technical Information	Results
Fire Retardant ASTM E-84	Class 1
QUV	Pending
Solvent Resistance ASTM D4752	50 MEK
Humidity	12 hrs 96-100% RH @ 40 degrees C on MDF
MEK Double Rubs/Crockmeter	Withstands 70 cycles
Impact Resistance Garner Impact Test ASTM D5420	>2 inch lbs per mill of thickness

Fire Rating Information: Most MirroFlex Structure sheets and ceiling tiles are fire rated and are designed to pass: **Class 1, ASTM E 84, and UL 94 VO and 5V tests.**

Tipping

MirroFlex Structure Sheets can be tipped (Highlighted) (not all designs) with a second color to accent the designs creating a multicolor 3-D effect. Our most popular color combinations are listed but many more are possible. See MirroFlex Structure Color Range Brochure.

TWO TONE color combinations

Argent Silver / Chrome	Argent Silver / Gold
Black / Chrome	Black / Gold
Pearwood / Chrome	Light Maple / Chrome
Welsh Cherry / Chrome	
Argent Silver / Copper Fantasy	
Black / copper Fantasy	

UTS – Universal Trim Strips

Universal Trim strips are now available in all MirroFlex colors. Available as sheet connectors, J channel and inside & outside corners.

GridMax – (patented) Ceiling Grid Covers Fits all 15/16 Suspension Grid Systems

Ceiling Snap on grid covers, main runners. Available all colors, 4ft. lengths.

Ceiling Snap on grid covers, cross tees. Available all colors, 2 ft. lengths.

Ceiling Slip on molding covers. Available all colors, 4 ft. lengths.

BOXES containing enough grid max cover to do 100 sp. Ft. ceiling are available and this is the preferred method of our inventory.

Covers for 9/16 grid systems available special order, please inquire.

Panel Clips

Available – a plastic (or metal as special order) clip to hold thin panels in place in grid systems.

General Information

Paintable MirroFlex can be painted with:

1. latex (water based) paints
2. Oil based paints
3. Solvent based paints

Installation MirroFlex™ Structures Sheets

CAUTION: All MirroFlex sheets being applied to surfaces with any recommended adhesive systems must be acclimatized.

- A. All components to be joined must be acclimatized for 24 hours prior to installation.
- B. Installation between 65° F and 80° F and humidity of 80% or less is necessary.
- C. For every 4-foot wide sheet an expansion space of 1/32" (8-foot sheet = 1/16") is necessary.

Failure to comply with the above in addition to adhesive manufacturers' installation instructions may result in significant installation problems.

1. **Pressure Sensitive Adhesive backing.** Can be supplied to most products. Usually requires the wall or ceiling to be treated with a contact adhesive to insure proper bond. Some Tin type (Our Old World Series) "glue ups" designs work well with this type and are ideally suited to backsplash applications.
2. **Contact Adhesives.** Brush or roller-on types, non-flammable, and water based contact adhesives work well. Follow the manufacturer's instructions carefully before installation. Spray-on aerosol types like 3 M 77 works well.

3. Latex trowel on adhesive.

- A. We recommend XT 2000, an adhesive for rigid plastics. Manufactured by Formulated solutions, Woodside, NY, (718) 267-6380. Available in 1 gallon and 5 gallon pails. This is a non-flammable, low odor, easily applied; easy clean up adhesive, applied with a V notched trowel.
- B. We recommend Titebond Solvent Free Fast Grab FRP adhesive (economical solution) except to trowel on to the substrate (porous only) only (not to the back of our **MirroFlex** sheets). This adhesive has a very short window for application (only about 5-10 minutes). Titebond is manufactured by Franklin International, 2020 Bruck Street, Columbus, Ohio 43207
- C. Fire Retardant Adhesive when Fire Rating is required
- D. Formulated Solutions, FRP (economical solution (longer open time)) (718) 267-6380. Available in 1 gallon and 5 gallon pails.
- E. Liquid Nails tube type adhesive for Cove Base or Panel adhesive LN 606 are recommended for Old World Glue Ups only. Follow manufacturers instruction except the adhesive is applied to the Old World panel and not the wall (request separate application instruction).