
ATI's MirroFlex Product Line allows you to design inspiring spaces with great ease, offering MirroFlex Structures, Flat Sheets, and Accessories.

MirroFlex Structures are deeply textured, decorative, thermoplastic wall panels and ceiling tiles. This product line offers design flexibility and is available in multiple sizes suitable for walls, wainscoting, ceilings, backsplashes, furniture, display fixtures, and other interior design applications. Whether a contemporary or more traditional design is required, the design and finish combinations that MirroFlex Structures offer will suit most needs. Most panels also feature the BIO (Built-In-Overlap), a unique seam system that makes installation easy and creates less visible seams.

Hundreds of designs and color combinations are available, many via our Quick Ship program for faster turnaround, while our custom program allows for infinite possibilities.

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Textured Decorative Laminates for the following applications:

1. Walls.
2. Ceilings.
3. Custom Applications.
4. Light Diffusion.
5. Surfaces.
6. Backsplash.
7. Wainscot.
8. Door Skins.

B. Accessories.

1.2 RELATED SECTIONS

- A. Section 06 1000 - Rough Carpentry.**
- B. Section 06 2000 - Finish Carpentry.**
- C. Section 06 4100 - Architectural Wood Casework.**
- D. Section 06 6400 - Decorative Wall Panels.**

- E. Section 09 2116 - Gypsum Board Assemblies.
- F. Section 09 5100 - Acoustical Ceilings.
- G. Section 09 5400 - Luminous Ceilings and Light Diffusers.
- H. Section 09 7200 - Decorative Wall Panels.
- I. Section 10 2100 - Tub and Shower Surrounds.
- J. Section 12 3600 - Countertops.

1.3 REFERENCES

A. ASTM International (ASTM):

1. ASTM D 1044: Standard Test Method for Resistance of Transparent Plastics to Surface Abrasion.
2. ASTM D 5420: Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact).
3. ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials.

B. German Institute for Standardization (DIN):

1. DIN EN ISO 4892: Plastics - Methods of exposure to laboratory light sources.
2. DIN EN ISO 105 B 02: Textiles - Tests for color fastness.
3. DIN EN 12720: Furniture - Assessment of surface resistance to cold liquids.
4. DIN 68861: Furniture Surfaces.
5. DIN EN ISO 527: Plastics - Determination of Tensile Properties.
6. DIN 67530: Reflectometer as a means for gloss assessment of plane surfaces of paint coatings and plastics.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 3000.
- B. Product Data: Include manufacturer's technical data sheets and published instruction instructions.
- C. Shop Drawings: Fully dimensioned shop drawings showing layouts and components, including edge conditions, substrate construction, and cutouts and holes. Include elevations, section details, and large scale details. Indicate color, pattern, and finish selections.

1.5 QUALITY ASSURANCE

- A. Manufacturer: Minimum of 5 years' experience producing similar products.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Storage and Handling: Comply with manufacturer's recommendations for storage and handling. Protect from weather damage.
- C. Handling: Handle materials to avoid damage.

1.7 PROJECT CONDITIONS

- A. Preconditioning: Acclimatize products for a minimum of 24 hours prior to fabrication. Precondition to occupancy conditions.

1.8 WARRANTY

- A. Warranty: Provide manufacturer's standard limited warranty against defects in manufacturing.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis-of-Design Manufacturer: ATI Decorative Laminates, 6106 West Market Street, Greensboro, NC 27409. Toll Free: 800-849-1320. Tel: 336-668-0488. Fax: 336-668-0713. Email: info@advtechnology.com. Web: www.atilaminates.com.

2.2 TEXTURED DECORATIVE LAMINATES

- A. Basis of Design: MirroFlex: Deeply textured, three dimensional, decorated, thermoplastic wall panels and ceiling tiles.
- B. Sheet Size (Nominal): [4 x 8 feet (1219 x 2438 mm)] [4 x 10 feet (1219 x 3048 mm)] [32 x 68 inches (813 x 1727 mm)] [18 x 24 inches (457 x 610 mm)] [2 x 2 feet (610 x 610 mm)] [2 x 4 feet (610 x 1219 mm)].
- C. Thickness (Nominal): 0.032 inches (0.81 mm).
- D. Properties:

1. Fire Resistance (ASTM E 84): Class A.
2. QUV: Minimum 100 hours.
3. Solvent Resistance: 50 MEK.
4. Humidity: 12 hours 96-100 percent RH @ 40 degrees C on MDF.
5. MEK Double Rubs/Crockmeter: Withstands 70 cycles.
6. Impact Resistance (ASTM D 5420) : >2 inch lbs. per mill of thickness.

7. Abrasion Resistance (ASTM D 1044):
 - a. Patina with TuffCote: Taber Abrader 5130: 4,700, no sign of wear.
 - b. Argent Finishes: 500 gm weight: 5,000, no sign of wear.
 - c. EcoFlex Paintable: CS-10 Calibrase wheel: 1,000, no sign of wear.

SPECIFIER'S NOTE: VERIFY PATTERNS AVAILABLE FOR REQUIRED APPLICATION(S).

- E. Pattern: [Alphabet Soup] [Americana] [Ariel] [Art Deco] [Audrey] [Baltimore] [Bamboo] [Bee Hive] [Boston] [Bow Tie] [Brick] [California Tile] [Cascade] [Cayman] [Celtic Weave] [Charleston] [Chesapeake] [Chocolate Squares] [Colonial] [Connect] [Corrugated] [Damask] [Diamond Plate] [Dogwood] [Dome 1] [Dome 2] [Dome 3] [Fleur] [Fluted] [Georgian] [Giant Weave] [Gobi] [Herringbone Tile] [Hurricane] [Inset Coffin] [Interlink] [Japanese Weave] [Kalahari] [Kelp] [Madison] [Marquis] [Metal Plates] [Metro] [Mini Dogwood] [Mini Dome] [Mini Quadro] [Morocco Tile] [Nettle] [New Orleans] [Nexus] [Ovals] [Portrait] [Quadro] [Quilted] [Random Lines] [Revolution] [Rib 1] [Rib 2] [Ridges] [Sahara] [Savannah] [Sculpted Petals] Shallot] [South Beach] [Square 5] [Star] [Storm] [Strike] [Subway Tile] [Tetrus] [Tidal] [Wavation] [Weave] [Annapolis] [Celestial] [Chatham] [Curvation] [Curves] [Mini Quilted] [Regalia] [Rosette] [San Diego] [Raised Panel Coffin] [Mojave].
- F. Finish: [CBS 1000 Mirror] [CBS 2000 Mirror Gold] [CBS 513 Mirror Red] [CBS 538 Mirror Green] [N401 Argent Copper] [N530 Argent Bronze] [N439 Argent Silver] [N496 Argent Gold] [N596 Merlot] [N597 Lavender] [N565 Almond] [N566 Winter White] [N593 Linen Beige] [N594 Linen Chocolate] [N560 Brushed Nickel] [CBS 5001 Brushed Aluminum] [CBS 514 Brushed Copper] [CBS 598 Brushed Stainless] [N609 Diamond Brushed] [N610 Steel Strata] [N611 Bronze Strata] [N522 Oil Rubbed Bronze] [Gloss White Paintable] [EccoFlex Tan Paintable] [EccoFlex Black] [N591 American Walnut] [N590 African Cherry] [N592 Oregon Ash] [N516 Welsh Cherry] [N535 Washed Oak] [N505 Pearwood] [N528 Light Maple] [N608 Vintage Metal] [N419 Crosshatch Silver] [N561 Galvanized] [N519 Smoked Pewter] [N581 Travertine] [N417 Bermuda Breeze] [N562 Antique Bronze] [N418 Muted Gold] [N507 Bronze Fantasy] [N415 Cracked Copper] [N190 Copper Fantasy] [N414 Moonstone Copper].
- G. Application(s): [Walls] [Ceilings] [Custom Applications] [Light Diffusion] [Surfaces] [Backsplash] [Wainscot] [Door Skins] [Tub and Shower Surrounds].

2.3 CEILING TILES

A. Basis of Design: MirroFlex Structures Perforated Acoustical Tiles: For standard 2x2 lay in ceilings:

1. Size (Nominal): 2 feet x 2 feet x 0.030 inches (610 mm x 610 mm x 0.76 mm).
2. Backer: [Poly Fiber] [Mineral Fiber]
3. NRC, with poly fiber: 0.55
4. NRC, with mineral fiber: 0.45.
5. Perforations:
 - a. Open Area: 12.7 percent.
 - b. Hole Diameter: 1.25 mm.

B. Basis of Design: MirroFlex Lay In Ceiling Tiles: For standard lay in ceilings:

1. [2 feet x 2 feet (610 mm x 610 mm)] [2 feet x 4 feet (610 mm x 1219 mm)].

C. Basis of Design: MirroFlex Glue-Up Tiles: Designed with an overlap system for easy installation:

1. Size (Nominal): [2 feet x 2 feet (610 mm x 610 mm)] [2 feet x 4 feet (610 mm x 1219 mm)].

D. Basis of Design: MirroFlex Mineral Fiber Ceiling Tiles: Faux mineral fiber tiles for lay in ceilings:

2. Size (Nominal): 2 feet x 2 feet (610 mm x 610 mm).
3. Edge: Tegular.
4. Hold-down clip system.

E. Basis of Design: MirroFlex Light Diffusion: Luminous ceilings and light diffusers for lay in ceilings.

2.4 DOOR SKINS

A. Basis of Design: MirroFlex Door Skins: Adhesive backed laminate for installation over existing flat panel doors.

1. Finish: [Soprano] [Noce Seccia] [Rustic Alder] [Light Maple] [Espresso Apple] [Driftwood] [Portuna] [Medium Cherry] [Medium Walnut] [Dark Walnut].

SPECIFIER'S NOTE: FIRE RATED ONLY IF INSTALLED WITH FIRE RATED ADHESIVE ON A FIRE RATED DOOR. DELETE IF NOT REQUIRED.

2. Fire rated with fire rated adhesive.

B. Properties:

1. Light Fastness (DIN EN ISO 4892-2 and DIN EN ISO 105 B 02): Greater than or equal to 6 (blue scale).
2. Chemical Resistance (DIN EN 12720 test substances and exposure times in accordance with DIN

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- 68861/1): Class 1 B (*1).
 3. Scratch Resistance (DIN 68861/4): Class 4 D (>1,0-1, 5 N).
 4. Resistance to Dry Heat (DIN 68861/7): Class 7 C (100 degrees C).
 5. Resistance to Wet Heat (DIN 68861/8): Class 8 B (75 degrees C).
 6. Abrasion Resistance (DIN 68861/2): Class 2 B (>350-650 rpm).
 7. Tensile Strength (DIN EN ISO 527-3/2/200): Longitudinal greater than or equal to 40 N/mm²,
Traverse greater than or equal to 30 N/mm² (depending on embossing).
 8. Gloss Level Tolerances (DIN 67530, 60 degree measuring head): Less than or equal to 15 +/- 2, 16
to 30 +/-3, 31 to 50 +/- 5, greater than 50 +/- 7.

2.5 TUB AND SHOWER SURROUNDS

- A. Basis of Design: MirroFlex Tub and Shower Walls: Robust surfaces ideal for wet areas.

1. Side Panels: 48 x 96 inch (1219 x 2438 mm) trim able panels with folding corners.
2. Back Panels: Adjustable to 60 inches.
- 3.

2.6 MIRROFLEX ACCESSORIES

SPECIFIER'S NOTE: DELETE ACCESSORIES NOT REQUIRED.

- A. Crown Molding.
- B. Gridmax: Ceiling grid cover system.
- C. MirroFlex Trim.
- D. Edge Banding.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates for compliance with requirements for installation. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Commencement of work will constitute acceptance of existing conditions and surfaces to receive the work.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions and approved submittals.

3.4 CLEANING AND PROTECTION

- A. Clean products according to manufacturer's printed care and maintenance instructions.
- B. Protect installed products and finish surfaces from damage during remainder of construction period.

END OF SECTION