Architectural concrete Form Liners

creative ideas taking shape
Architectural Concrete Form Liners

Because of its strength and versatility, concrete continues to gain popularity as the building material of choice. More and more, owners, designers and contractors refuse to settle for plain, unadorned concrete.

For generations, Sika Greenstreak has been proud to promote and advance the use of concrete, and architectural concrete is no exception. Since 1975, Sika Greenstreak has been at the forefront of technology for texturing tilt-up, cast-in-place and precast concrete.

Sika Greenstreak Form Liners provide an economical means for adding interest and visual appeal to almost any concrete structure. The desire for architectural concrete continues to grow in both the public and private sectors and the applications for Sika Greenstreak Form Liners are limitless.

A Sampling of Applications

- Commercial and Industrial Complexes and Buildings
- Institutions
- Community Centers
- Sports and Entertainment Complexes
- Amusement and Theme Parks
- Water & Waste Water Treatment Facilities
- Transportation Ports and Terminals
- Bridge Abutments and Columns
- Sound Walls
- Retaining Walls
- Corporate Signs and Planters
- Residential Buildings

Sika Greenstreak Form Liners attach to almost any forming system or casting bed prior to concrete placement. Following normal placement practices and curing times, the forming system and liner are stripped leaving an architectural concrete finish.

Sika Greenstreak offers a wide array of patterns and textures from which to choose. Patterns are available in a variety of sizes and depths to achieve the best visual effect.

Typical Patterns

- Trapezoidal Rib
- Fractured Rib and Fin
- Natural and Cut Stone
- Brick and Block
- Wood and Plank
- Sandblast & Exposed Aggregate Finishes

Custom Patterns and Graphics

If standard patterns do not meet a specific need, Sika Greenstreak can consider submissions for a custom pattern, texture or graphic. Please contact our Technical Service Department for consultation on custom patterns.
Casting Cost Effectively

Sika Greenstreak Form Liners are available in four grades to economically cast an architectural finish in concrete structures of all sizes, types and budgets.

For some projects, it may be more cost effective to use more than one grade. When using multiple grades, it may be necessary to shim the Form Liner to compensate for thickness variations from grade to grade.

<table>
<thead>
<tr>
<th>GRADE</th>
<th>MATERIAL TYPE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNI-CAST®</td>
<td>Rigid Polymer (HIPS)</td>
<td>A single use Form Liner ideal for tilt-up panels and cast-in-place construction requiring cut-outs for doors, windows, utilities, etc.</td>
</tr>
<tr>
<td>MULTI-CAST®</td>
<td>Rigid Polymer (ABS)</td>
<td>Intermediate use Form Liner, designed for 2-10 uses under normal job site conditions. Primarily used for cast-in-place applications.</td>
</tr>
<tr>
<td>DURA-CAST®</td>
<td>Rigid Polymer (ABS)</td>
<td>Intermediate use Form Liner, designed for 10-25 uses under normal job site conditions. Used for cast-in-place and gang forming applications.</td>
</tr>
</tbody>
</table>

Typical sheet size is 4’ x 10’ but varies with pattern. Not all patterns are available in all grades. Each pattern detail shown in this catalog provides information on availability.

Important Factors to Remember

- Pre-construction mock-up is required and must reflect actual job site conditions for warranty to remain in effect.
- Some deeper patterns require back-up strips and are noted on the pattern details shown in this catalog. Please refer to the section of this catalog regarding back-up strips for additional information.
- Listed Form Liner dimensions are nominal. Changes in temperature can cause the liner to expand or contract. Allow for dimensional variations in the design and installation.
- All Form Liners are UV stabilized, however, protect liners from over exposure to direct sunlight.
- Rigid Polymer liners will become more rigid at temperatures below 25°F. Use extra care under these conditions.
- Concrete temperatures in excess of 140°F will adversely affect the material properties of the Form Liners. Sika Greenstreak doesn’t recommend the use of Form Liners in these applications.
- Rigid Polymer liners are NOT recommended for precast applications using heated beds.
- Type 3 concrete with accelerators create high heat during cure which could damage Rigid Polymer Form Liners.
- Rustication strips are recommended at the liner joints that do not blend with the pattern.
- Use Sika Greenstreak No. 8000 Form Release.
- Although UNI-CAST Form Liners do not require a release agent, Sika Greenstreak’s Form Release 8000 is highly recommended to enhance the appearance of the concrete.
- Use one concrete supplier for uniformity of color and texture.
- Place concrete with an elephant trunk to minimize aggregate segregation.
- Vibrate concrete to eliminate lift lines and minimize air voids.
- Clean the liner between castings with a mild detergent and scrub brush.
- Consult Sika Greenstreak for further specification information.
- See ACI 303R-04 “Guide to Cast-In-Place Architectural Concrete Practice” for further recommendations in design and use.

A pre-construction mock-up is required and must reflect actual job site conditions for the warranty to remain in effect.
Sika Greenstreak Form Liners are available in a variety of patterns and textures and most are offered in at least three different grades. Please consult Sika Greenstreak to determine the most suitable liner for your application and forming technique.

Ribbed Designs

**No. 301**  U,M,UL
3'-11 1/2" x 9'-11" Sheets • Trapezoid
Back-up

**No. 302**  U,M,D,UL
3'-11 3/4" x 10' Sheets • Trapezoid
Back-up

**No. 304**  U,M,D,UL
4' x 10' Sheets • Trapezoid

**No. 305**  U,M,UL
4'-1" x 10' Sheets • Trapezoid

**No. 308**  U,M,UL
4' x 10' Sheets • Trapezoid
Back-up

**No. 309**  U,M,UL
4' x 10' Sheets • Random Reveal
Back-up

**No. 310**  U,M,UL
10' x 4' Sheets • Trapezoid
Back-up

**No. 312**  U,M,UL
3'-11 1/2" x 10' Sheets • Trapezoid
Back-up

**No. 333**  U,M,UL
4' x 10' Sheets • Trapezoid

**No. 312**  U,M,UL
3'-11 1/2" x 10' Sheets • Trapezoid
Back-up

Not all Sika Greenstreak patterns are shown in this catalog. Call Sika Greenstreak for additional pattern details or if you would like us to create a custom pattern or design.

Ribbed Designs can be used horizontally in Tilt-up and Precast applications. Ribbed patterns should only be used vertically in Cast-in-place applications.
This symbol indicates patterns recommending back-up strips. Please refer to the section of this catalog regarding back-up strips for additional information.

Not all patterns are available in all grades. Grades available for each pattern detail are designated as follows:

- **U** Uni-Cast®
- **M** Multi-Cast®
- **D** Dura-Cast®
- **UL** Ultra-Cast™

(Not all patterns are shown in this catalog.)

All dimensions nominal
Stone Designs

No. 328  U,M,UL
9'-10 3/4" x 3'-11 1/2" Sheets • Drystack Random Stone
Relief: Varies 1/2" - 1 1/2" max

No. 329  U,M,UL
10' x 4' Sheets • 12" x 24" Running Bond Ashlar
Relief: 1 1/2" max

No. 330  U.M.D,UL
10' x 4' Sheets • Ashlar Stone
Relief: Varies 1/2" - 1 1/4" max

No. 328  U,M,UL
9'-10 3/8" x 3'-10 3/4" Sheets • Sierra Drystack
Relief: 1 1/2" max

No. 329  U.M,UL
10' x 4' Sheets • 12" x 24" Running Bond Ashlar
Relief: 1 1/2" max

No. 330  U.M.D,UL
10' x 4' Sheets • Ashlar Stone
Relief: Varies 1/2" - 1 1/4" max

No. 439  M,UL
7'-10 3/8" x 3'-10 3/4" Sheets • Sierra Drystack
Relief: 1 1/2" max

No. 440  U,M,UL
10'-1" x 4'-0 1/4" Sheets • River Rock
Relief: 2" max

No. 454  U,M,UL
8" x 4" Sheets • Spring Creek Stone
Relief: 3/4" max 1/2" - 3/4" avg

No. 460  U,M,UL
10'-0 1/2" x 4'-0 1/2" Sheets • Ashlar Cut Stone
Relief: 1 1/2" max

No. 462  U,M,UL
10'-1" x 4'-0 1/4" Sheets • Zion Stone
Relief: 2" max

No. 468  U,M,UL
10'-0 1/2" x 3'-3 1/4" Sheets • Willow Wall Stone
Relief: 2" max

No. 472  U,M,UL
10'-0 3/4" x 4'-0 1/4" Sheets • Random Cut Stone 16"
Relief: 1 5/8" max

No. 476  U,M,UL
9" x 3'-0 3/8" Sheets • Running Bond Cut Stone 18"
Relief: 1 1/4" max

No. 477  U,M,UL
10' x 4" Sheets • Meramec DryStack Stone
Relief: 1 1/8" max

(Not all patterns are shown in this catalog.)
All dimensions nominal

This symbol indicates patterns recommending back-up strips. Please refer to the section of this catalog regarding back-up strips for additional information.

Not all patterns are available in all grades. Grades available for each pattern detail are designated as follows:
U Uni-Cast®  M Multi-Cast®  D Dura-Cast®  UL Ultra-Cast™
No. 303  U,M,UL
9'-5 1/2" x 3'-11 3/4" Sheets • Smooth Face Block

No. 338  U,M,D,UL
9'-2" x 4' Sheets • Rough Brick
Head Joints on 8" Centers

No. 341  U,M,UL
4' x 10'-0 3/8" Sheets • 8" Square Split Face Block

No. 342  U,M,UL
9'-4" x 4' Sheets • 8" x 16" Split Face Block

No. 345  U,M,UL
10' x 4' Sheets • 12" Square Split Face Block

No. 365  U,M,UL
9'-4" x 4' Sheets • 8" x 16" Cinder Block

No. 303  U,M,UL
9'-5 1/2" x 3'-11 3/4" Sheets • Smooth Face Block

No. 338  U,M,D,UL
9'-2" x 4' Sheets • Rough Brick
Head Joints on 8" Centers

No. 341  U,M,UL
4' x 10'-0 3/8" Sheets • 8" Square Split Face Block

No. 342  U,M,UL
9'-4" x 4' Sheets • 8" x 16" Split Face Block

No. 345  U,M,UL
10' x 4' Sheets • 12" Square Split Face Block

No. 365  U,M,UL
9'-4" x 4' Sheets • 8" x 16" Cinder Block

No. 403  U,M,UL
10' x 4' Sheets • Smooth Face Brick

No. 453  U,M,UL
10' x 4' Sheets • Smooth Face Utility Brick
Fractured Designs

No. 347  U,M,UL
(Optional closed or open ends, open end sheets are 9'-9")
3'-11 1/2" x 9'-10" Sheets • Trapezoid with Aggregate Face
Back-up

No. 366  U,M,D,UL
3'-11 1/4" x 10' Sheets • Fractured Rib
Back-up
1" TO 1 1/2" VARIES ALONG LENGTH
2 1/2"

No. 367  U,M,D,UL
4" x 10' Sheets • Fractured Rib VA D.O.T.
1" TO 1 3/8"

No. 368  U,M,D,UL
4'-1" x 10'Sheets • Trapezoid with Aggregate Face
Back-up

No. 369  U,M,UL
4' x 10'Sheets • Trapezoid with Aggregate Face
Back-up

No. 373  U,M,D,UL
4" x 10'Sheets • Fractured Fin
Available with ribs rotated 45°

No. 374  U,M,UL
4" x 10'Sheets • Ripped Rope

No. 376  U,M,UL
4" x 10'Sheets • Fractured Granite

No. 377  U,M,UL
4" x 10'Sheets • Large Fractured Trapezoid

(Not all patterns are shown in this catalog.)

All dimensions nominal

This symbol indicates patterns recommending back-up strips. Please refer to the section of this catalog regarding back-up strips for additional information.

Not all patterns are available in all grades. Grades available for each pattern detail are designated as follows:

U Uni-Cast®  M Multi-Cast®  D Dura-Cast®  UL Ultra-Cast™
Wood Designs

No. 344  U.M.D
4' x 9'-10" Sheets • Weathered Random Boards

No. 351  U.M
3'-11 3/4" x 8'-11" Sheets • Rough Southern Yellow Pine

Miscellaneous

No. 340  U.M.D.U.L
4' x 10' Sheets • Smooth Face

No. 347  U.M.D.U.L
4' x 10' Sheets • Medium Sandblast

No. 354  U.M
4' x 10' Sheets • Striated Wave

No. 355  U.M
4' x 10' Sheets • Random Striated Wave

No. 348  U.M.D.U.L
4' x 10' Sheets • Weathered Boards

No. 350  U.M.U.L
4' x 10' Sheets • Split Face Texture

No. 357  U.M
4' x 10' Sheets • Flamed Granite

No. 360  U.M.D.U.L
4' x 10' Sheets • Riverbed Aggregate

No. 363  U.M.D
3'-11 3/4" x 9'-10" Sheets • Weathered Tongue & Groove

No. 351  U.M
4' x 10' Sheets • Shiplap
Back-up strips recommended

No. 377  U.M.D.U.L
4' x 10' Sheets • Flamed Granite

No. 427  U.M.D.U.L
4' x 10' Sheets • Flagstone
Ultra-Cast Form Liners are manufactured from a durable urethane elastomer, making them ideal for high reuse applications such as precast concrete or large gang-formed concrete structures.

Ultra-Cast Form Liner Advantages

- 40 to 100+ reuses
- Available with factory-bonded plywood backing for easy installation and to restrict liner growth and shrinkage
- Durable in a wide range of temperatures
- Does not require backup strips
- Available in custom sizes and patterns
- Can form fine details and textures
Form Release 8000
Form Release 8000 is specially formulated to prevent concrete from bonding to aluminum, steel, plywood and plastic forms and Form Liners. Form Release 8000 should be used with all reusable Sika Greenstreak Form Liners.

Advantages
- Will not stain or discolor concrete
- Leaves concrete ready for curing, sealing or painting
- Minimizes form clean-up
- Waterproofs plywood and helps prevent deterioration and corrosion of steel

Coverage
- High coverage rate
- Steel, aluminum, plastic, high density plywood…2000-2500 ft² / gal.
- Medium density plywood…1000-1500 ft² / gal.
- Rough sawn lumber, striated plywood…800-1000 ft² / gal.

Technical
- Contains no diesel fuel or kerosene
- Red label not required

Reveal StiX™
Reveal StiX are the highest quality and most economical reveal product available. They are a unique composition of an expanded foam core and a durable smooth plastic shell.

Elephant Trunk & Accessories
Sika Greenstreak offers Elephant Trunk, Hoppers and Collars for proper placement of concrete. Placing architectural concrete with Elephant Trunk will minimize aggregate segregation.
Technical Services

Sika Greenstreak distributors have the knowledge and ability to answer most questions. If additional information is needed, product brochures, specification sheets and technical notes are available upon request. Sika Greenstreak engineers are available for consultation during design, specification and product installation.

The following ACI Committee Reports are also recommended:
- ACI 117 “Specifications for Tolerances for Concrete Construction and Materials and Commentary”
- ACI 301; Ch. 6 “Specifications for Structural Concrete”
- ACI 303R “Guide to Cast-In-Place Architectural Concrete Practice”
- ACI 309; Ch. 7 “Guide for Consolidation of Concrete”
- ACI 347; Ch. 5 “Guide to Formwork for Concrete”

Ordering Information

Lead times will vary with order quantity and pattern selection. Some popular patterns can be shipped the next day and most orders can ship within 1-2 weeks. Allow 2-4 weeks for large quantity orders.

Limited Warranty

SIKA Greenstreak warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer’s sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA GREENSTREAK SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Suggested Proprietary Short Form Guide Specification

Textured architectural concrete surfaces as indicated in drawings and specifications to be formed using Sika Greenstreak Architectural Form Liner Pattern Number __________, as manufactured by Sika Greenstreak Group, Inc.; 3400 Tree Court Industrial Blvd., St. Louis, MO 63122; Phone 800-325-9504. Form Liner mock-up, storage, handling, accessories, fabrication, preparation and installation to comply with Sika Greenstreak’s written instructions and recommendations. Sika Greenstreak shall provide a Job Site Guide with the above listed Form Liner.

A long form, 3 part master specification in CSI format is available upon request. Although proprietary, the master specification includes reference and performance standards.

3400 Tree Court Industrial Boulevard, St. Louis, Missouri 63122
Phone: 800-325-9504 or 636-225-9400
Fax: 800-551-5145 or 636-225-2049
usa.sika.com

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