Who We Are

• Our company was built on a strong history of high quality residential construction, fiberglass manufacturing and yacht building. Combined we have over 60 years experience.

• We are the original inventor of **fiberglass gutter** for residential use.

• We work on a foundation of strong ethics, strong communication and a desire to provide the best products for the best price available.
What is Fiberglass

• Fiberglass (or fibreglass) is a type of fiber reinforced plastic where the reinforcement fiber is specifically glass fiber. The glass fiber may be randomly arranged, flattened into a sheet (called a chopped strand mat), or woven into a fabric. The plastic matrix may be a thermosetting plastic – most often epoxy, polyester resin – or vinylester, or a thermoplastic.
History of Fiberglass

• Glass fibers have been produced for centuries, but mass production of glass strands was discovered in 1932 when Games Slayter, a researcher at Owens-Illinois, accidentally directed a jet of compressed air at a stream of molten glass and produced fibers. A patent for this method of producing glass wool was first applied for in 1933.[3] Owens joined with the Corning company in 1935 and the method was adapted by Owens Corning to produce its patented "fibreglas" (one "s") in 1936.

• A suitable resin for combining the "fibreglass" with a plastic to produce a composite material was developed in 1936 by du Pont. Now for the first time the composite showed great strength and promise as a structural and building material. Confusingly, many glass fiber composites continued to be called "fiberglass" (as a generic name)

• Ray Greene of Owens Corning is credited with producing the first composite boat in 1937, but did not proceed further at the time due to the brittle nature of the plastic used. In 1939 the United States a fuselage and wings of an aircraft.[5] The first car to have a fiber-glass body was a 1946 prototype of the Stout Scarab, but the model did not enter production.[6]
Fiberglass Pultrusion

- **Pultrusion** is a continuous process for manufacture of *composite materials* with constant cross-section.

- In the standard pultrusion process the reinforcement materials like *fibers* or woven or braided strands are impregnated with *resin*, possibly followed by a separate preforming system, and pulled through a heated stationary *die* where the resin undergoes *polymerization*. The impregnation is either done by pulling the reinforcement through a bath or by injecting the resin into an injection chamber which typically is connected to the die. Many resin types may be used in pultrusion including *polyester*, *polyurethane*, *vinylester* and *epoxy*. Resin provides the resistance to the environment, (i.e., the corrosion resistance, the UV resistance, the impact resistance, etc.) and the glass provides strength, in addition to safety from fire.[2]
Pultrusion Benefits

Benefits of Pultrusion

1) **Cost** – Manufacturing Costs are about 2/3 less than hand molded fiberglass parts

2) **Consistency** - Pultruded parts have a tolerance of 1/1000” which makes installation significantly easier

3) **Delivery** - Capabilities to manufacture 3000 feet of fiberglass gutter per day

4) **Quality** - Product Quality is equal to or greater than hand made parts
Fiberglass Gutter

• We manufacture 2 standard profiles conceived from the standard wood gutter profiles (4x5 and 4x6)
Fiberglass Gutter

Benefits of Fiberglass Gutter
- Durable
- Aesthetically Pleasing
- Impact Resistant
- UV Resistant
- Minimal Expansion / Contraction
## Fiberglass Gutter

<table>
<thead>
<tr>
<th></th>
<th>Fibergutter</th>
<th>Vinyl/PVC</th>
<th>Aluminum</th>
<th>Copper</th>
<th>Wood</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Structural Strength</strong></td>
<td>Best</td>
<td>Poor</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Expansion/Contraction</strong></td>
<td>Best</td>
<td>Poor</td>
<td>Better</td>
<td>Better</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Corrosion Resistance</strong></td>
<td>Best</td>
<td>Good</td>
<td>Good</td>
<td>Better</td>
<td>Fair</td>
</tr>
<tr>
<td><strong>Stability</strong></td>
<td>Best</td>
<td>Poor</td>
<td>Fair</td>
<td>Fair</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Low Maintenance</strong></td>
<td>Best</td>
<td>Better</td>
<td>Good</td>
<td>Better</td>
<td>Poor</td>
</tr>
<tr>
<td><strong>Paintability</strong></td>
<td>Best</td>
<td>Poor</td>
<td>Poor</td>
<td>Poor</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Climate Durability</strong></td>
<td>Best</td>
<td>Poor</td>
<td>Better</td>
<td>Better</td>
<td>Good</td>
</tr>
<tr>
<td><strong>Impact Resistance</strong></td>
<td>Best</td>
<td>Poor</td>
<td>Poor</td>
<td>Poor</td>
<td>Good</td>
</tr>
</tbody>
</table>
Fiberglass Gutter

LIMITED WARRANTY COVERAGE

Subject to the terms and conditions stated herein, FIBERGLASS BUILDING PRODUCTS (hereinafter "Manufacturer") warrants to the original purchaser that each FIBERGLASS BUILDING PRODUCTS Product will be free from manufacturing defects that cause the Product to rot, corrode, delaminate, or excessively swell from moisture for a period of fifty (50) years from the date of the original consumer purchase from an authorized FIBERGLASS BUILDING PRODUCTS dealer.

Each purchaser of a FIBERGLASS BUILDING PRODUCTS Product is solely responsible for determining the effectiveness, suitability and safety of any particular use or application of the Product. Building code regulations vary from area to area.

Each FIBERGLASS BUILDING PRODUCTS purchaser should consult local building and safety codes for specific requirements. LIMITATIONS -- CONDITIONS NOT COVERED BY THIS WARRANTY: Manufacturer’s liability under this Warranty applies to the original purchaser only and is limited solely and exclusively to replacement of defective FIBERGLASS BUILDING PRODUCTS Product.

In no event shall Manufacturer be liable for labor, installation, reinstallation, freight, taxes or any other charge related to defective Product. Manufacturer shall not be liable for any indirect, incidental, punitive, consequential, exemplary or other damages of any kind whatsoever, whether any such claim is based upon theories of contract, warranty, negligence, tort, strict liability or otherwise.

This warranty does not cover and the Manufacturer is not liable for damage or failure of the FIBERGLASS BUILDING PRODUCTS Product as a result of one or more of the following: intentional or accidental misuse of or damage to the Product; impact of foreign objects; earthquakes, fire, flood, lightning, ice, tornado, hurricane, windstorm or any other Acts of God; improper installation of the Product or its structural supports; movement, settlement, distortion, warping or cracking of the Products structural supports or accessories used in connection therewith; physical abuse, vandalism, stress, insulation, improper maintenance, use or incompatible accessories; or other products that cause a Product defect or failure to occur; pollution, acid rain, application of harmful chemicals or vapors applied to the Product; or ordinary and expected weathering due to exposure to the elements, which for purposes of this Warranty is defined to be fading, chalky or darkening of the surface of the Product due to
Fiberglass Gutter

Finishing Options

Paint

• **Painting FiberGutter**
  • FiberGutter is generally painted with the trim boards after installation. In general paint will stick to fiberglass 5 times longer than wood.

**Surface Preparation**
Use 80 Grit sandpaper over the entire surface of the gutter that is going to be painted. For best adhesion it is recommended to just sand until the gloss is no longer visible. Wipe clean with acetone before and after sanding for best results.

**Paint Application**
We have found that pretty much any exterior acrylic latex paint/primer combo works very well. 2 Coats is recommended. We insist that you follow the recommendations of the paint manufacturer.
Fiberglass Gutter

Custom Radius Gutter and Custom Profiles Available
Fiberglass Gutter

FiberGutter is available through distribution in the Northeast, Bay Area CA, Pacific Northwest, Mid-Atlantic, Southeast and Mid-West.
Fiberglass Gutter

Fiberglass Gutter Installation
Fiberglass Gutter

Fiberglass Gutter Installation Instructions

SAND ALL BONDING AREAS WITH 36 GRIT SANDPAPER (INCLUDED WITH GUTTERGLUE KIT) PRIOR TO APPLYING GUTTERGLUE!

Fiberglass Building Products Inc. accepts no liability or responsibility for the improper installation of this product.

FiberGutter Parts List

<table>
<thead>
<tr>
<th>SKU#</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>FG60</td>
<td>4x5 Fiberglass Gutter (27.5&quot;)</td>
</tr>
<tr>
<td>FG90</td>
<td>4x6 Fiberglass Gutter (27.5&quot;)</td>
</tr>
<tr>
<td>FG6040</td>
<td>4x5 Fiberglass Gutter (40&quot;)</td>
</tr>
<tr>
<td>FG9040</td>
<td>4x6 Fiberglass Gutter (40&quot;)</td>
</tr>
<tr>
<td>FG60EC</td>
<td>4x5 Fiberglass Endcap</td>
</tr>
<tr>
<td>FG90EC</td>
<td>4x6 Fiberglass Endcap</td>
</tr>
<tr>
<td>FGGLUE</td>
<td>Gutter Glue Seaming Kit</td>
</tr>
<tr>
<td>EXT-DISP-220</td>
<td>Manual Applicator Gun</td>
</tr>
<tr>
<td>FCO</td>
<td>Fiberglass Gutter Outlet</td>
</tr>
<tr>
<td>2P10KIT</td>
<td>2P-10 Adhesive</td>
</tr>
<tr>
<td>FGSCREW3</td>
<td>Stainless Structural Screw</td>
</tr>
</tbody>
</table>

Tools Required to complete FiberGutter Installation

Proper Staging (OSHA Approved), Cordless Impact Driver with bit extender, Chop Saw with Diamond Blade, 6" level, Chalk Line, Tape Measure, Latex/Nitrile Gloves, Utility Knife (for trimming excess fiberglass on miters/seams), 2-3/8” Hole Saw (Outlet), Safety Glasses, Rags & Acetone.
Fiberglass Gutter

Installation Instructions

1) Preparation- Before Installation make sure that the fascia is prepped to accept the new gutter.

2) Stand Off Blocking- If mounting to a wood fascia stand-blocks are recommended. The size of your stand-off blocks is determined by the drip edge. In some instances counter-flashing may be required.

3) Cutting- Use a standard miter saw to cut the gutter. It is recommended to quickly sand 2” on either side of end for seaming products to adhere properly.

4) Hanging- Hang the gutter with proper pitch to the location of the downspout (1/8” for every 10’)

5) Fasteners- Use a 3-1/8” x 5/16” Structural Screw (Countersinking Bit) so that you do not have to pre-drill the holes.
Endcap Installation Continued

Give area another wipe clean once endcap is in place.

Use GutterGlue along edge of intersection between gutter & endcap. You can use your finger (with glove on) to smooth it out.

Outlet Installation

Cut 2” PVC SCH 40 Pipe to a 3” length.

Sand outlet where it will bond to fiberglass.

Outlet Installation Continued

Mark underside of gutter in center of flat area. (Leave enough space for downspout to fit between outlet and fascia)

Drill straight up through gutter with a 2-3/8” hole saw.

Use Sandpaper to lightly clean up edge and increase bond strength. Give it a quick wipe with acetone

Outlet should be a tight fit to gutter. If it is loose or will not sit straight use 2P10 Superglue to hold it in place while applying final bonding agent.

Use GutterGlue to complete outlet installation.

Fiberglass Gutter Installation Instructions

STOP: SAND ALL BONDING AREAS PRIOR TO APPLYING GUTTERGLUE!

These instructions are intended for the Fiberglass Gutter System Installation.

For further assistance please contact:
Fiberglass Building Products Inc.
546 Plymouth St
Halifax, MA 02338
Technical Support: (781) 754-4890
www.fibergutter.com
**Miter / Seaming Installation**

- Use GutterGlu to seal miter on inside. If outside needs touch up you can use GutterGlu and sand after curing.
- Make sure area 2" on either side of seam has been sanded (36 Grit recommended)
- Use 2P10 superglue (recommended) to temporarily hold seam together
- Tape outside of seam to prevent spillover

**Miter / Seaming Installation Continued**

- Wet out Fiberglue Fiberglass Tape with GutterGlu and lay into Miter/Seam.
- Use 2" tongue depressor to wet out inside of seam with GutterGlu over fiberglass tape
- Allow 30 minutes before handling.

**Endcap Installation**

- Sand any bonding surfaces where the endcap is to be installed (including on the gutter).
- Wipe with Acetone
- Apply 2P10 Superglu to edge
- Stick Endcap in place so that it is flush with edge of gutter

DONE!
Fiberglass Gutter Gallery
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