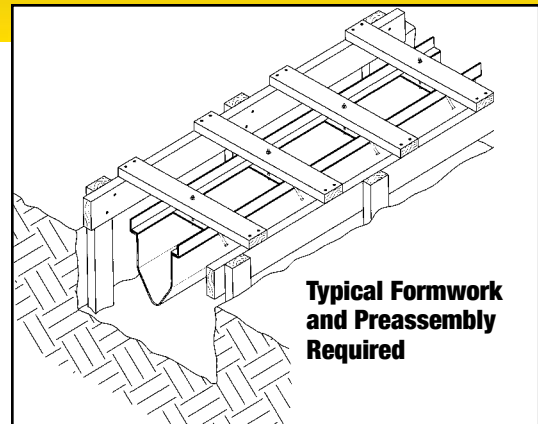
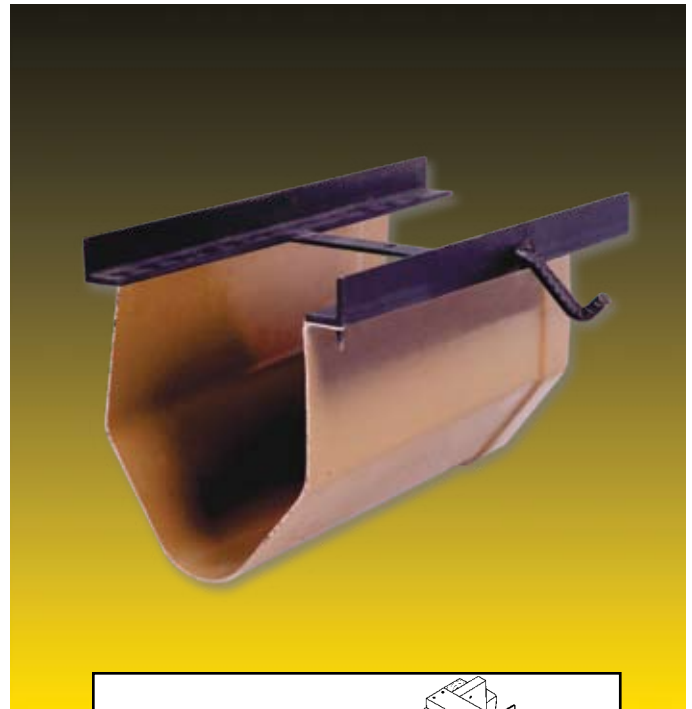
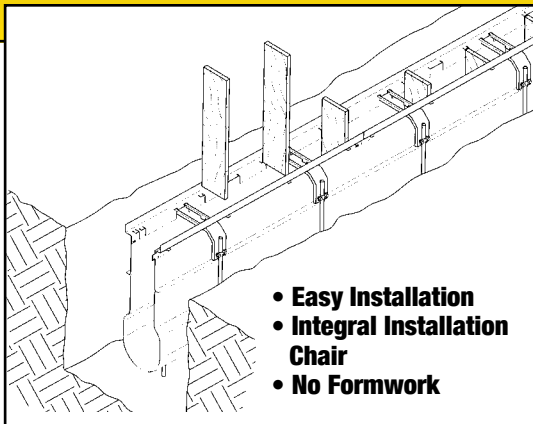


# COMPARE

## POLYCAST® 3000 vs. Other Fiberglass Trench Drain Systems



POLYCAST® 3000 is the first and only pultruded trench drain system on the market today. The pultrusion process allows the channel to maintain a consistently higher glass content for a strong, durable channel.

The unique bulb-shaped design of POLYCAST® 3000, combined with the continuous 1% slope, provides the largest flow capacity of any similar presloped trench drain on the market today.

POLYCAST® 3000 offers:

- **High Performance** - flow capacity of 3000 gpm or higher
- **Fast Installation** - installation rates in excess of 100 linear ft/hr and more
- **Superior Manufacturing Process** - ISO-9001:2000 pultrusion manufacturing plant
- **Unique Channel and Frame Design** - patent pending

### Should you use POLYCAST® 3000 or Other Fiberglass Trench Drain Systems for your next project?

Features of both POLYCAST® 3000 and other fiberglass trench drain systems are compared on a point-for-point basis on the back of this page. See for yourself why POLYCAST® 3000 should be the choice for your next trench drain project.

# COMPARE

## POLYCAST® 3000 Pultruded FRP Trench Drain System

## VS. Other Fiberglass Trench Drain Systems

<b>FLOW CAPACITY</b>	<p><b>More than 3000 GPM — 6.73 cfs</b></p> <p>Greater flow capacity allows POLYCAST® 3000 to evacuate greater amounts of water more rapidly.</p>	<p><b>Less than 2600 GPM — 5.79 cfs</b></p> <p>Low flow capacity reduces drain performance.</p>
<b>SIDEWALL DEFLECTION DURING CONCRETE PLACEMENT</b>	<p>Integral reinforcing ribs combined with bulkheads provide added support to POLYCAST® 3000 allowing the channel to resist the tendency to deflect and warp during concrete placement.</p>	<p>Flexible channel sidewalls require <b>excessive formwork to limit deflection and warpage during concrete placement.</b></p>
<b>CHANNEL DESIGN</b>	<p>The POLYCAST® 3000 <b>unique bulb-shaped design with vertical sidewalls</b> allows for a stronger channel with a greater flow capacity.</p> <p><b>120' continuous slope</b> - longer runs allow for more efficient fluid flow.</p>	<p><b>Weaker sidewall</b> can buckle during concrete placement and restrict flow capacity.</p> <p><b>100' maximum continuous slope</b> - shorter runs with more frequent interruptions are less efficient.</p>
<b>THERMAL EXPANSION STRESSES</b>	<p>Coefficient of Thermal Expansion (CTE) POLYCAST® 3000: <math>4.5 \times 10^{-6}</math> in/in/°F Concrete: <math>6 \times 10^{-6}</math> in/in/°F</p> <p>POLYCAST® 3000 <b>CTE is similar to concrete</b> and thus is not as susceptible to differential expansion and movement.</p>	<p>Other fiberglass drain system's <b>CTE is very different</b> from concrete.</p> <p>Differences in expansion and contraction <b>result in thermal stress fractures and buckling of sidewalls.</b></p>
<b>CHANNEL FRAME DESIGN</b>	<p>Specially engineered frames are completely embedded in concrete. Loads are transferred directly into the surrounding concrete for <b>uniform load distribution.</b></p> <p>Vent slots in the frame prevent air entrapment under the grating ledge.</p>	<p>Frames are not completely encased in concrete. Channel <b>subjected to concentrated traffic loading forces.</b></p> <p><b>Trapped air and sand pockets</b> can result in <b>premature frame and channel failure.</b></p>
<b>MANUFACTURING PROCESS</b>	<p><b>Pultrusion</b> process allows channel to be produced with more glass - <b>56% glass by weight.</b></p> <p><b>UV inhibiting surface veil</b> - pultruded with surfacing veil for additional protection from UV damage.</p> <p><b>Manufactured in ISO-9001:2000 certified pultrusion plant</b> - consistent parts every time.</p>	<p>Molding process limits the amount of fiberglass in the channel. Lower glass content results in <b>weaker channel walls. Glass weight varies.</b></p> <p><b>Susceptible to UV breakdown.</b></p> <p>Inconsistent quality.</p>
<b>INSTALLATION</b>	<p><b>Install up to 100 linear ft/hr.</b> - quicker installation saves time and money.</p> <p><b>Fewer parts</b> - frame design includes installation chair, no preassembly needed.</p> <p>Integral steel installation chair allows easy channel placement, grade adjustment and locks POLYCAST® 3000 into the concrete. Standard 1" x 6" planks are used for stiffening diaphragms.</p>	<p><b>Slow and complex installation</b> adds time and cost to the project.</p> <p><b>Preassembly</b> required with many parts.</p> <p>Excessive <b>formwork and elaborate contractor fabricated channel stiffening diaphragms required.</b></p>

### THE CHOICE! POLYCAST® 3000 PRESLOPED TRENCH DRAIN SYSTEM!



**POLYCAST®**  
3621 Industrial Park Drive  
Lenoir City, TN 37771  
Phone: 800-346-3061 or 865-986-9726  
Fax: 865-986-0585  
Web: <http://www.polycastdrain.com>  
e-mail: [hpsliterature@hps.hubbell.com](mailto:hpsliterature@hps.hubbell.com)

**HUBBELL®**  
Power Systems

[www.hubbelpowersystems.com](http://www.hubbelpowersystems.com)  
[hpsliterature@hps.hubbell.com](mailto:hpsliterature@hps.hubbell.com)