

POLYCAST[®]

PRESLOPED TRENCH DRAIN SYSTEM



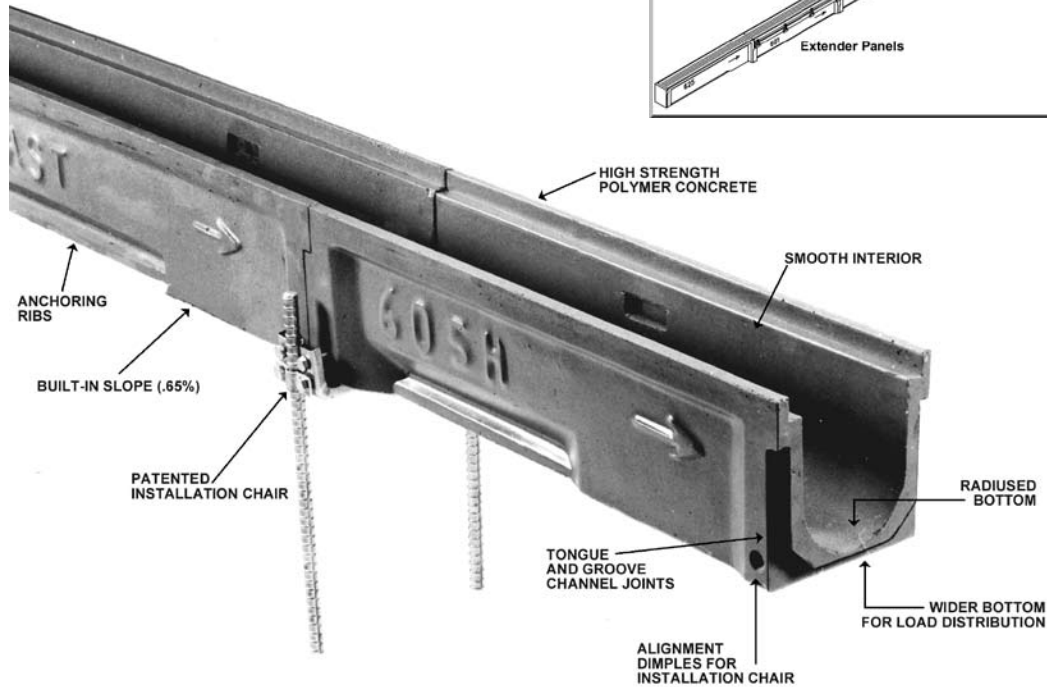
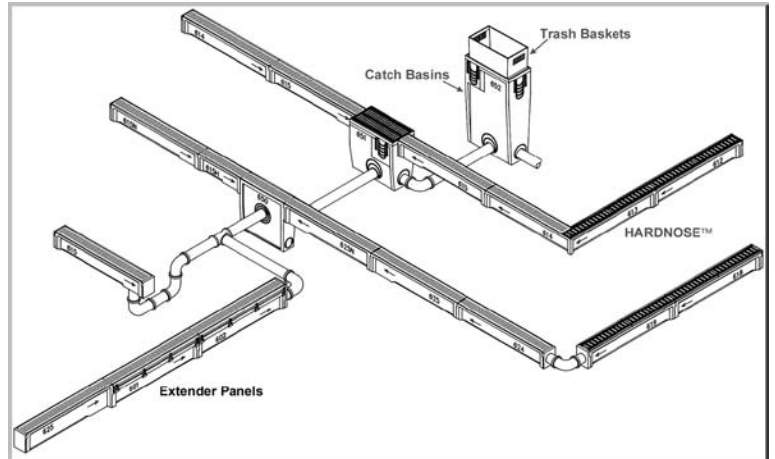
LENOIR CITY, INC.

Drain System

The 20% Advantage

48" vs. Meter Channel Lengths

- Fewer Channels
- Fewer Joints
- Fewer Problems
- Faster Installation



All sizes and styles of POLYCAST® Trench Drain are available in either polyester or vinyl ester polymer concrete. For extreme chemical resistance, vinyl ester is recommended.

The POLYCAST® Presloped System is designed for a variety of applications, both indoors and outdoors. POLYCAST® is made of polymer concrete, a high strength, chemical resistant, closed cell material. As a result, POLYCAST® drains offer a high degree of chemical resistance, have a water absorption value of less than one percent, and are more than four times stronger than ordinary Portland cement concrete. Rapid drainage, durability and resistance to freeze/thaw cycles make POLYCAST® ideal for outdoor applications. The 24- and 48-inch components make POLYCAST® extremely versatile. With the proper components, a flowrate of 840 GPM per outlet is attainable.

Combining simplified installation, high durability, and lower overall cost, POLYCAST® systems are proven superior in surface drainage.

Applications

INDUSTRIAL

- Manufacturing
- Chemical Plants
- Bottling
- Food Processing
- (USDA Applications)

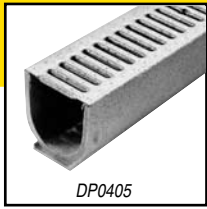
COMMERCIAL

- Vehicle Maintenance
- Airports
- Highway and Roads/Curbs
- Schools



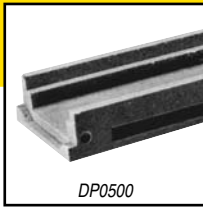
ABOVE - Smooth interior finish of drain assures complete drainage.

Sizes and Styles



DP0405

400 Series



DP0500

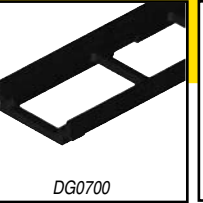
500 Series

POLYCAST® 400 Series is a complete surface drainage system with a precast polymer trench and a tight-fitting, galvanized steel grate. Ideal for tennis courts, swimming pools, walkways, patios, garage entrances, etc.

POLYCAST® 500 Series Deck Drain is designed for above-grade floor applications such as multi-level parking structures and suspended slabs.



600 Series



DG0700

700 Series Frame



DG0700PE

DURAGUARD® Frame

POLYCAST® 600 Series Presloped System is for commercial and industrial applications (pneumatic tire vehicles only). It has flow rates equal to or greater than most larger poured-in-place trench drains.

POLYCAST® 700 Series Presloped Cast Iron Channel Frame System is for heavy commercial and military aircraft taxiways at moderate speeds, hard wheel forklifts, pallet jacks, solid wheel carts, construction vehicle equipment, etc.

DURAGUARD® Frame improves heavy load impact performance. Utilizing a high density polyethylene composite, the DURAGUARD® channel frame reinforces the channel edge to dramatically improve the load performance and impact resistance of the standard 600 Series polymer concrete channel. DURAGUARD® is also extremely resistant to environmental exposure and many corrosive chemicals. The anchoring flanges on the outer edge of the DURAGUARD® frame permanently and mechanically engage the frame into the concrete. DURAGUARD® is ideal for many markets including utilities, agriculture, food processing, public/government housing, industry, manufacturing, recreation and chemical plants.



DP0825B

800 Series

POLYCAST® 800 Series Channel is for high volume situations that exceed the capacity of the POLYCAST® 600 Series. This channel is designed for areas of high volume, cross-flow interception, or areas where the large cross section is necessary.



3000 Series

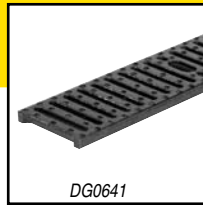
POLYCAST® 3000 Series High Capacity Drain System is designed for airports, roadways and other applications needing high volume flow rates. The flow rate for this system is more than 3,000 gallons per minute for 120' of drain. The system channels are manufactured using the pultrusion process to produce a lightweight, high strength fiber reinforced polymer composite channel.



LENOIR CITY, INC.

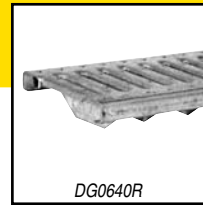
Gratings

POLYCAST® offers a wide range of grating designs and materials to meet virtually any need (more gratings available than pictured here). For a secure fit, POLYCAST® grates are held tight to the drain by special hold-down bars which lock into insert slots cast into the channel walls.



DG0641

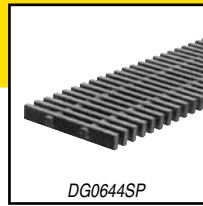
Gray Iron



DG0640R

Double Galvanized or Stainless Steel

POLYCAST® Gray Iron and Double Steel Gratings are designed for pneumatic tire vehicles and highway vehicles at low to moderate speed.



DG0644SP

Fiberglass

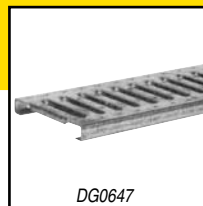


**available in double steel*

DG0646

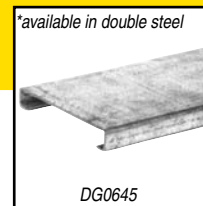
Perforated Galvanized* Stainless Steel

Fiberglass Gratings are designed for use in areas requiring chemical resistance. The clear opening between the bars is 5/8".



DG0647

Slotted Galvanized Stainless Steel

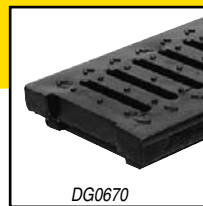


**available in double steel*

DG0645

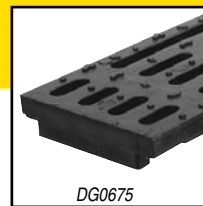
Solid Galvanized* Stainless Steel

POLYCAST® Galvanized and Stainless Steel Gratings are designed for use in areas which have only pedestrian and/or periodic, light vehicular traffic, and for use in areas where sanitary conditions are essential.



DG0670

Slotted Grating



DG0675

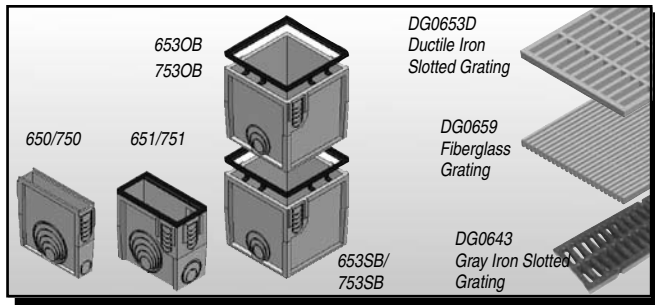
Transverse Grating

DURAGUARD® Slotted is a high density polyethylene slotted grate appropriate for medium duty loads and corrosive applications. DURAGUARD® Slotted is an economical alternative for high strength and durability.

DURAGUARD® Transverse is a versatile and economical high density polyethylene grate suitable for light duty vehicles and pedestrian traffic. The longitudinal slots create turbulence to improve entry of flow into the channel in high velocity transverse sheet flow applications.

Accessories

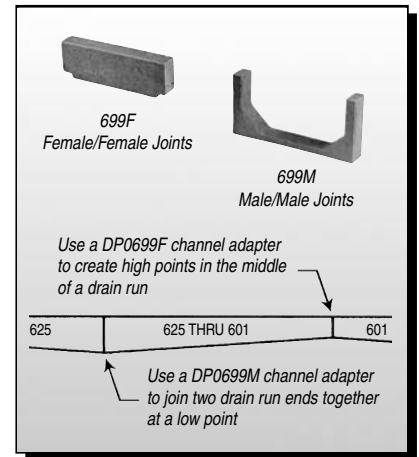
POLYCAST® offers a full line of accessories giving maximum latitude in the design of drainage systems. Stackable catch basins, end caps, removable debris baskets, pipe cut-outs and neutral channels (without slope) are all available for use in conjunction with POLYCAST® systems.



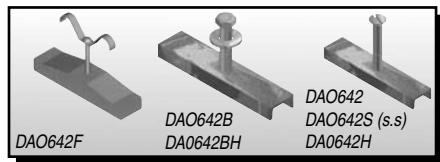
Catch Basins & Catch Basin Gratings



Installation Alignment Chair Patent #4,878,782



Channel Adapters

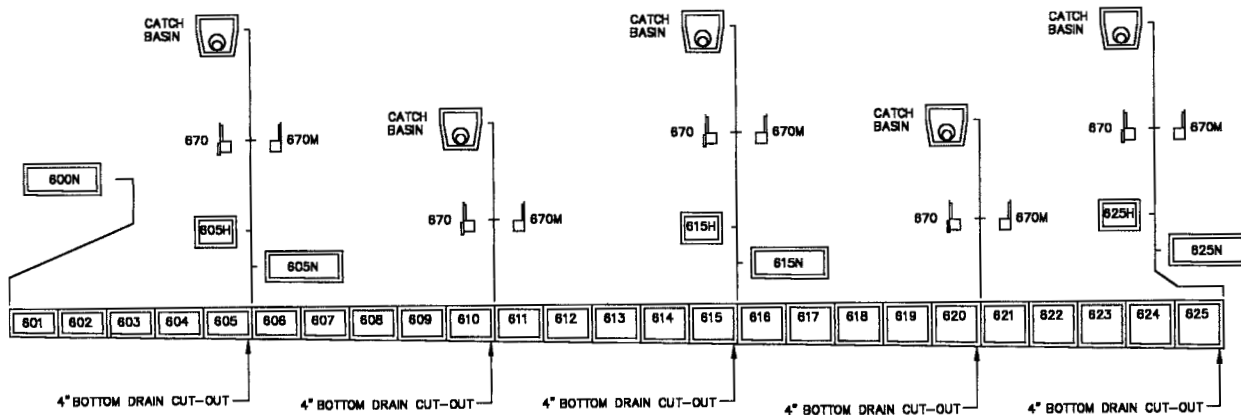


Grating Hold Downs



End Caps

600 Series Channel Data

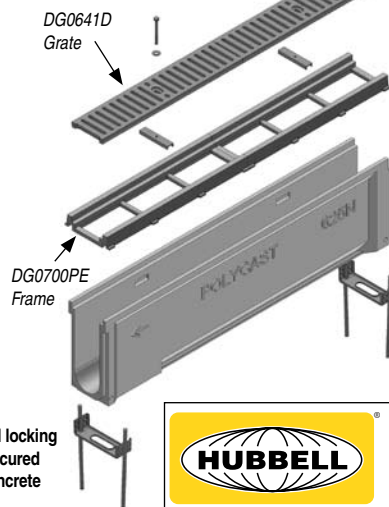


NOTE 1: All half and neutral channels have bottom cut outs. NOTE 2: All half and neutral channels accept the corresponding end caps.

DURAGUARD®

The POLYCAST® DURAGUARD® Channel Frame is extremely chemical resistant and greatly improves the impact and wear resistance of the standard 600 Series channels. When combined with the rugged slotted ductile iron grating Part No. DG0641D, you get a drainage system with superior chemical resistance. The system is suitable for lightly loaded forklifts at low to moderate speeds.

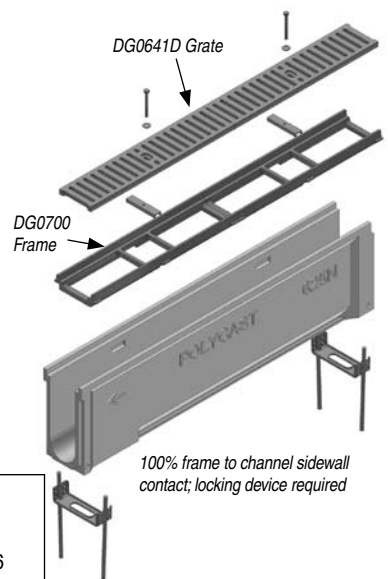
100% frame to channel sidewall contact; locking device required



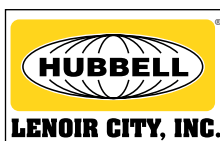
Note - Gratings and locking devices must be secured in place prior to concrete placement

700 Series

The POLYCAST® 700 Series offers exceptional impact resistance. Designed for extreme loads, the HARDNOSE cast iron frame strengthens the grating and drain assembly for extra durability. The POLYCAST® 700 Series is recommended for heavy commercial and military aircraft taxi-ways at moderate speeds, hard wheel forklift, pallet jacks, solid wheel carts, construction equipment and off-road vehicles. It meets FAA Airport pavement design loads per AC 150/5320-6D.



100% frame to channel sidewall contact; locking device required



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