

ABT, INC.
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PolyDrain

Since its introduction, the PolyDrain Trench Drain System had gained ready acceptance into a wide variety of applications. PolyDrain's modular design permits the user to create any drainage configuration using only the simplest of hand tools. PolyDrain eliminates the forming expense that is required in building a cast-in-place trench drain.

Each PolyDrain channel is a nominal meter (39.19 in) in length. Standard channels have a built-in 0.6% slope and are placed sequentially in numerical order. There are 30 channels, numbered 010 to 300, that create a continuously sloped channel run. Custom trenches can be designed with intersections or miters which can easily be fabricated on site with commonly available commercial grade cutting tools. By varying outlet placements, runs of any length are possible.

PolyDyn

All standard PolyDrain channels are manufactured from PolyDyn, an advanced formulation of selected quartz aggregates and inert mineral fillers bonded with a high-grade polyester resin. This composite material is suitable for use in exterior and interior applications and offers distinct advantages in terms of strengths, durability, and cost over alternative materials.

PolyDyn polymer concrete is vastly superior to portland cement in terms of strength, as well as wear and freeze resistance. Because polymer concrete has 3-5 times the compressive and tensile strength of portland cement it can be cast much thinner and is, subsequently, much lighter in weight. This one important factor eliminates the need of heavy equipment and the extensive accompanying labor costs.

PolyDyn is non-porous and corrosion resistant. Absorption is less than 0.2% which makes it ideal for food processing and chemical industry applications often requiring frequent washdown with strong cleaning agents or the capture and containment of corrosive and sometimes hazardous materials. The smooth, mirror-like channel finish reduces flow resistance and allows fluids to pass at an increased velocity. It is this quality that makes PolyDrain channels self-cleaning.

PolyChampion

When more aggressive chemical resistance is required, PolyDrain offers another formulation called PolyChampion. PolyChampion is composed of the same quartz and mineral fillers as our standard PolyDyn, but with a premium grade vinyl ester resin used as the binder.

Whether PolyDyn or PolyChampion, PolyDrain's formulations will work in most all types of applications and provide years of service.

Features & Benefits

Red Dot Inserts

All standard PolyDrain channels come with our Red Dot inserts that, in conjunction with grate locking devices, comprise the PolyLock Grate Lock System. Using this patented system, you can blind lock grates without the need of special tools. Red Dot inserts also provide vibration dampening that helps keep grates secure.

Pre-Sloped Radiused Channels

Standard PolyDrain channels have a built-in 0.6% slope with a smooth, radiused bottom and a narrow cross-section. These features, which can produce a flow velocity up to 10 times that of a standard hand formed trench drain, produce excellent hydraulic efficiency and keep channels clean.

Anchoring Ribs

PolyDrain channels are formed with two anchoring ribs, one each on either side of the channel at the base of the sidewall. These anchoring ribs provide a positive mechanical lock with surrounding concrete.

Interlocking Joints

PolyDrain channels have interlocking tongue & groove joints that aid in maintaining proper channel alignment during the pour. ABT maintains a full line of sealants and barriers that can be applied to channels when a completely sealed system is required.