

# POLYSTAR, INCORPORATED

## DRILLER PAD *Product Specification*

**PURPOSE:** The DRILLER PAD is a super duty, rigid, drive on collector system designed to contain incidental spills of hazardous or corrosive liquids.

**SCOPE:** This product specification covers materials, construction and workmanship, physical properties, chemical resistance and methods of testing.

**MATERIAL:** The DRILLER PAD is a fiberglass-encapsulated steel structure. Durable fiberglass laminations are bonded to a nominal 5/16" thick steel plate. Fiberglass offers great physical strength, excellent corrosion resistance and flexibility. Fiberglass mat and industrial grade isophthalic or vinyl ester resin as manufactured by *Ashland Chemical* or equivalent are used. A gelcoat surface resin of equal chemical resistance, with the additive antimony trioxide for flame retardance and U.V. protection is included. The flame spread rating is Class II. Tested by ASTM E-84.

**STRUCTURE:** DRILLER PAD side walls are a *tube wall* design. Steel tube is welded to the floor, making the walls. This design prevents the side walls from being damaged when they are driven over during system entry or exit. The ability of a DRILLER PAD to absorb high levels of static and dynamic loading provides positive assurance of spill containment. In addition, fiberglass provides the utmost in non-porous, corrosion protection against attack by a wide variety of industrial chemicals and liquid hydrocarbons. Each pad is outfitted with multiple bulkhead fittings to allow liquid to flow from pad to pad. Pads are available in 10' x 20' x 3" sizes or 8' x 24' x 3".

Fiberglass reinforced construction is formed by combining resin with controlled amounts of fiberglass mat and woven roving. Polystar ensures that a corrosion barrier of not less than 30 mils as specified by industry standard PS 15-69 is provided to ensure consistency of product quality. The technical properties of a reinforced fiberglass laminate are:

Property at 73.4°F (23°C)	1/8" to 1/4" Thickness
Ultimate minimum tensile strength (PSI)	9,000
Flexural minimum strength (PSI)	16,000
Flexural minimum modulus of elasticity (tangent, in PSI)	700,000

**OPERATING TEMPERATURE:** The maximum operating temperature for fiberglass is 200°F with excursions through 225°F. The minimum operating temperature is -60 degrees F.

**QUALITY ASSURANCE:** Each DRILLER PAD is manufactured and tested according to industry standards PS 15-69 and 41-GP-22, Canadian and *SPI/MTI Quality Assurance Report for FRP Corrosion Resistant Equipment*.

**WARRANTY:** Each DRILLER PAD is warranted against defects in workmanship and materials for a period of one (1) year from the date of purchase. Repair or replacement is at the discretion of the manufacturer. Customer or third party damage is excluded from warranty coverage.

**STEEL GRADE:** A36 steel is the standard grade steel used for our systems. If temperatures reach below -60 degrees F the steel must be special ordered. (A572 grade 50) **The 5/16" steel would be special ordered. It must be A572 grade 50 with a -60 degree sharpie (or sharpy) test.**