



Fast Water Series Public Safety Barriers

MATERIAL DESIGN AND CONSTRUCTION

Pacific Netting Products' Fast Water Series public safety barriers are low-maintenance, all-season barriers that are suitable for both high- and low-flow conditions. With few moving parts or points of failure, they are designed to deliver up to a 50-year service life. Watertight, corrosion-free, rot-resistant, and ultraviolet (UV)-stable, they are capable of withstanding temperatures to -140°F and designed and constructed with a diameter and wall thickness to meet site-specific requirements and budgets. PNP Fast Water Series barriers can restrict boat access and serve as a public safety barrier while allowing debris to pass downstream.

Fast Water Series barriers are manufactured using co-extrusion high density polyethylene (HDPE) for superior visibility and regulatory compliance (e.g., federal standard 13655/RAL 1021 [yellow] or federal standard 12246/RAL 2009 [orange]). Custom colors are also available upon request. The co-extrusion manufacturing process offers the long-term benefits of HDPE with a surface layer that will provide the same longevity as the foundation material. Co-extrusion has the same service life and superior impact resistance as standard black HDPE with the added value of color and superior coating resilience. PNP's use of black HDPE fusion-welded end caps in the manufacturing process provides a color context that promotes object recognition. Custom colors and graphics can be added per customer requirements.

Built of HDPE PE4710 material, Fast Water Series barriers are filled with type 1, closed cell, expanded polystyrene foam logs that are sized to fit the I.D. of the barrier. They are formulated with a minimum of 2% carbon black and/or UV stabilizer for maximum protection against UV rays. The smooth, non-stick surface of HDPE results in exceptional resistance to fouling.

Because they are manufactured with low-friction components, Fast Water Series barriers are capable of standing up to high-flow, high-velocity lotic environments. They are designed to roll on a chain or wire rope and can be modified with a "lock in place" connection to prevent them from rolling — particularly useful in reservoirs, pools, or other lentic environments where a non-rolling barrier is preferred. Fast Water Series barriers are available in various lengths and provide up to one million pounds of tensile strength. For remote locations, the dimensions of the barrier can be customized for ease of deployment and retrieval.



A CLOSER LOOK AT HDPE CO-EXTRUSION MANUFACTURING

PNP uses customized and proprietary manufacturing processes to produce its Fast Water Series public safety barriers. When a structure requires enhanced visibility beyond what is offered by standard black, PNP offers the alternative of co-extrusion HDPE. In standard HDPE extrusion, solid plastic pellets are gravity-fed into a forming mechanism, where jacketed compression screws melt and feed the materials into a die. Co-extrusion involves multiple extruders of different pigments and, if required, other materials such as UV inhibitors are added to form a homogeneous product. PNP's HDPE co-extrusion Fast Water Series public safety barriers do not chip, peel, or fade and are the obvious choice when demarcation, safety, security, and impact resistance are essential.



About PNP

PNP's administrative headquarters and manufacturing facility are located in Kingston, Washington, USA. As a family-owned and operated company, PNP was founded on the principle that listening carefully to customers is the best way to deliver the quality they need and surpass the service they expect. PNP has been manufacturing and supplying systems since 1997, so we know what it takes to successfully execute and deliver a project on schedule and within budget.