

CONCRETE CHATS

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Waterstops

As we've discussed, joints are openings in concrete flatwork, but they are not limited to flatwork. Joints also exist in vertical elements and at intersections between floors and walls of structures, and other places. With many of the structures in question being for water containment or conveyance, waterstops can be critical. Waterstops prevent movement of liquid from one side of a concrete element to the other and can be built-in as the concrete is placed or added between individual placements. The name, "waterstop" is universal and includes chemical resistant products as well as those intended for use with water only.



PVC Waterstops: The ribbed sides are anchored into concrete elements on either side of the joint during placement. For joints expected to move after construction, profiles contain bulbs or similar shapes designed to accommodate the movement without increasing stress on the ribbed sides.



TPER Chemical Resistant: Thermoplastic Elastomeric Rubber Waterstop typical have similar profiles to PVC waterstops and are installed the same way. TPER products offer resistance to petroleum oils & fuels, automotive fluids, and industrial fluids and are used in applications where PVC is not the best option.



Strip Applied: Exactly as the name suggests, these products are strips placed between individual concrete pours and are also available in varying materials suitable for a range of liquids including water, fuels and other chemicals. Strip applied waterstops can be hydrophilic, swelling up to 400%, or non-hydrophilic with no swelling when wet.



Metal (Fradiflex): Metal waterstops can frequently be easier to install than PVC or TPER products. Tabs on the bottom are wired to slab reinforcement then concrete elements are poured against a special coating allowing the Fradiflex to adhere to the fresh concrete.

Waterstops are used in a wide range of applications including water and wastewater treatment, concrete channels, outlet control for dams & levees, elevator pits, and many others. [BoMetals Inc](#) has the experience and technical expertise to assist you in finding products that best fit the needs of your project.

QuicTip▶ [Waterstop Accessories - BoMetals Inc.](#) are also available and include [Custom Splices](#), [Welding Iron](#), [Hog Ring Installation](#), and [Eyelet Installation](#).

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