GREENSTREAK GROUP, INC

WATERSTOPS for concrete

For 60 years, Greenstreak has been the leading source for joint sealing technologies and innovative products for concrete. Offering a variety of solutions across all categories of waterstops, Greenstreak has the knowledge and time tested products to meet the most demanding applications.

- Water/Waste Water Treatment Plants
- Lock and Dam Systems
- Reservoirs and Aqueducts
- Flood Walls
- Retaining Walls
- Foundations
- Tunnels and Culverts
- Bridge Abutments
- Containment Structures and Tanks
- Slabs-on-Ground

When you specify Greenstreak, you are specifying the first name in waterstops and the trusted source for superior technical and customer service.

Sika® GREENSTREAK

800-325-9504

Choose The Right Waterstop

Waterstop Basic Use

Embedded in concrete, across and/or along the joint, waterstops form a watertight diaphragm that prevents the passage of liquid through the joint.

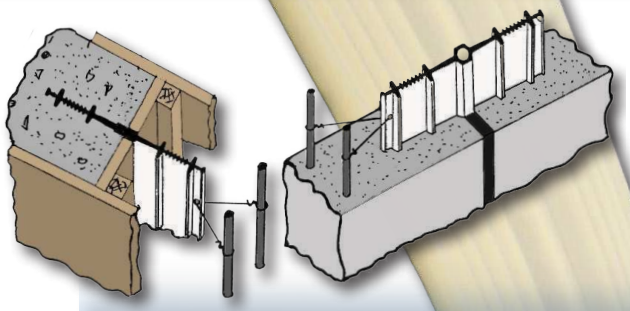


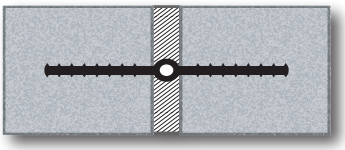
Photo courtesy of Paul C. Rizzo Associates, Inc.

Suggested Waterstop Design Checklist

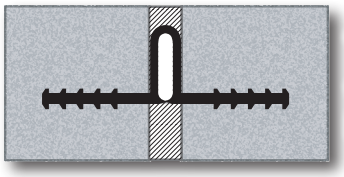
- Verify chemical containment requirements, if any
- Verify hydrostatic head pressure requirements
- Determine joint type and joint movement requirements
- Specify material type for best water sealing performance
- Specify profile and size (by product number, if possible)
- Verify joinery details of dissimilar or asymmetric waterstop profiles, if any (consider using one profile throughout to simplify intersections)
- Specify factory fabrications and fittings for transitions and intersections
- Specify appropriate method for securing waterstop in position (see Greenstreak CSI-formatted product specifications for additional guidance)

Selecting A Waterstop Shape

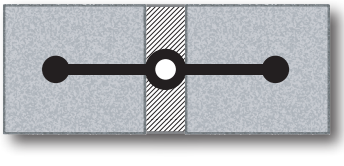
MOVEMENT JOINTS are typically designed to accommodate significant movement due to drying shrinkage, temperature changes, settlement, creep, or live load deflections. The waterstop profile selected must have the ability to accommodate expected joint movement, typically achieved through the use of a centerbulb, tear web, or other suitable waterstop geometry designed to accommodate joint movement. Movement joints typically include contraction joints, expansion joints, and isolation joints. The following profiles are suitable for Movement joints:



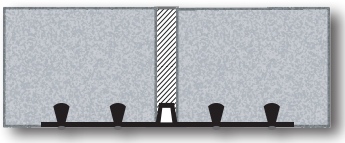
Ribbed with Centerbulb ***shapes are the most versatile type of waterstops available.*** The centerbulb accommodates lateral, transverse, and shear movement. Larger centerbulbs will accommodate greater movement.



Tear Web shapes accommodate large movements. When joint movement occurs, the tear web ruptures and allows the U-bulb to deform without putting the material in tension.



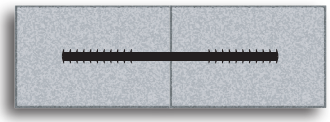
Dumbbell with Centerbulb shapes accommodate lateral, transverse, and shear movement. Larger centerbulbs will accommodate greater movement. ***Consider using Ribbed with Centerbulb for better sealing characteristics.***



Base Seal with Tear Web shapes accommodate lateral, transverse, and shear movement. Larger centerbulbs will accommodate greater movement. ***Base Seal waterstops have some limitations with transitions and intersections.***

Specify Greenstreak

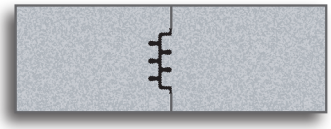
NONMOVING JOINTS typically have 100% of the bonded steel reinforcement continuous through the joint, and expose the waterstop to negligible or no movement. Flat waterstop profiles without a centerbulb or tear web are suitable for nonmoving joints. Other waterstop materials may be considered for nonmoving joints as well, such as strip-applied or injectable hose waterstops. Examples of waterstop profiles suitable for nonmoving joints are as follows:



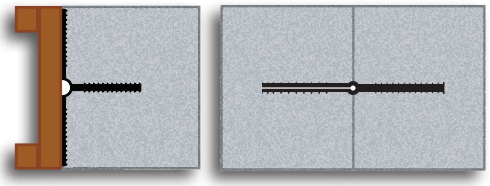
Flat Ribbed ***shapes are preferred for nonmoving joints and provide the best sealing characteristics.***

Dumbbell shapes are an alternate profile for nonmoving joints. ***Consider ribbed shapes for better sealing characteristics.***

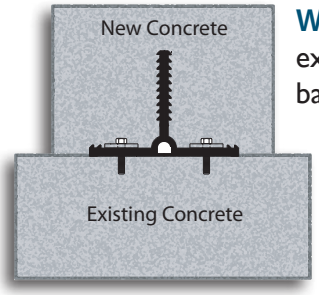
Base Seal is ideal for slab-on-grade joints or backfilled walls and are easy to form. ***Base Seal waterstops have some limitations with transitions and intersections.***



Labyrinth is primarily used in vertical joints. Labyrinth shapes create a keyed joint and do not require split bulkheads. ***Labyrinth can be difficult to use in horizontal joints and there are some limitations with transitions and intersections.***

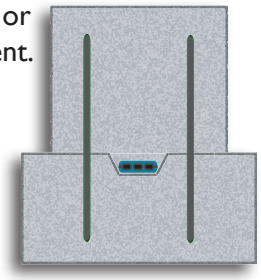


Split Flange shapes can simplify forming. The split flange is opened and attached to the bulkhead for placement of the first concrete element. After stripping the bulkhead, the flange is closed and anchored for placement of the adjoining element. ***Split waterstops are suitable for straight runs only. Transitions and intersections are not practical with these profiles.***



Waterstops for Retrofit Applications seal joints where new construction meets an existing structure and can be suitable for moving joints. Systems include stainless steel batten bars and fasteners for anchoring to the existing structure with the aid of an epoxy gel.

Strip Applied Waterstops are adhered along concrete joints or penetrations and encapsulated by a subsequent concrete placement.



Hydrotite is the state of the art for hydrophilic waterstop and is a high-performance, chloroprene rubber material that expands when exposed to moisture to create a compression seal within and along the joint. For less critical applications, Greenstreak also offers **SikaSwell A** and **Swellstop** expanding waterstops.

Product and Material Options

Greenstreak has the industry's most comprehensive collection of waterstop products and solutions to meet the most demanding applications. This catalog is primarily dedicated to PVC (polyvinyl chloride) waterstops, but general information is included for chemical resistant waterstops (TPER, PE, Stainless Steel), strip applied waterstops (Hydrotite, SikaSwell A, Swellstop, Lockstop) and for Fuko Injection Hose Systems. Complete catalogs and technical data for each of these products are available in print or online.

Greenstreak PVC Waterstop

Greenstreak, one of the first manufacturers of polyvinyl chloride (PVC) waterstop, has formulated, compounded and manufactured PVC waterstop for years. Greenstreak has the knowledge, experience and desire to provide the highest quality joint sealing solutions and services available.

PVC is the industry standard for flexible waterstops, which are typically embedded across and along the joint. PVC is the most versatile waterstop material, offering the broadest design selection and is accepted under the **ACI 350 "Code Requirements for Environmental Engineering Concrete Structures"**. It has great inherent elasticity and is resistant to many waterborne chemicals. It will not discolor concrete or produce electrolytic action.

Physical Properties

All Greenstreak PVC waterstops are specially formulated and manufactured to meet or exceed industry standard product specifications.

Greenstreak PVC Waterstop Physical Properties

Property	Test	Value
Water absorption	ASTM D570	0.15% max.
Tear resistance	ASTM D624	300 lb./in. min.
Ultimate elongation	ASTM D638	350% min.
Tensile strength	ASTM D638	2000 psi min.
Low temperature brittleness	ASTM D746	Passes @ -35°F / -37°C
Stiffness in flexure	ASTM D747	700 psi min.
Specific gravity	ASTM D792	1.38 max.
Hardness Shore A15	ASTM D2240	79±3
Accelerated extraction -Tensile strength -Elongation	Corps of Engineers	 1600 psi min. 300% min.
Effect of Alkali -Weight change -Hardness change	CRD-C 572	 +0.25% -0.10% +/-5 points

Greenstreak conducts regular testing of materials. Call Greenstreak for the latest test values.

Independent laboratory tests are available for the following applicable standards:

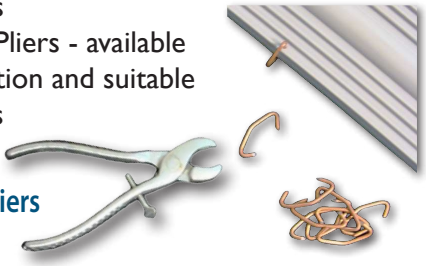
- Corps of Engineers CRD-C 572-74
- Bureau of Reclamation
- CH2M HILL
- MWH
- Various State Highway and/or Public Works Department Standards

Test results conducted using British Standards are also available. Consult a Greenstreak engineer for more information.

Installation Aids and Fabrications

PVC waterstops must be securely positioned in the forms to prevent deflection or misalignment during concrete placement. This is achieved by tying off the outer edge of the waterstop to adjacent reinforcing steel. Greenstreak offers options to properly anchor PVC waterstop, including:

- Punched Flanges - most ribbed shapes can be provide with punched flanges
- Grommets - select shapes can be provided with brass grommets
- Hog Rings and Pliers - available for field application and suitable for most shapes



Hog Rings and Pliers

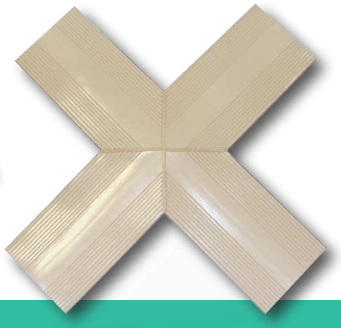
Virtually every concrete structure requiring a PVC waterstop is going to encounter a joint that will change direction or intersect with another joint. One of the benefits PVC offers is the ability to heat weld the material to create a continuous sealing diaphragm within the joints of a concrete structure.

Waterstop failures are often the result of field fabricated transitions and intersections.

To avoid potential problems, Greenstreak strongly ***recommends factory fabrications*** and maintains an inventory of the most common fabrications to meet the demands of a construction schedule.

Splicing irons are available in a variety of sizes for field welding lengths of PVC waterstop. More information can be found on page 11.

Splicing Irons

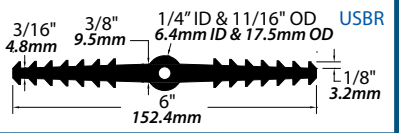


Factory Fabrications

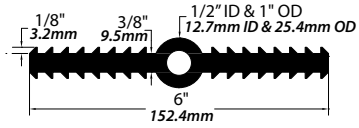
Ribbed with Centerbulb

Greenstreak offers the industry's widest array of PVC waterstop designs, typically ranging in widths from 4" to 12" and thicknesses from 1/8" to 1/2". Depending on size, most waterstop shapes are provided in 50 or 100 ft. coils. Following is a comprehensive list of available shapes grouped by profile type. Please contact Greenstreak for further information or if you need assistance in selecting a waterstop.

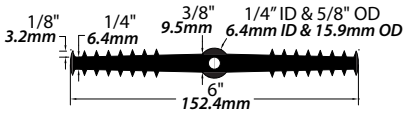
705 STD. WT. 1.19 lbs/ft 1.77 Kg/m HEAD PRESS. 125' 373 KPa



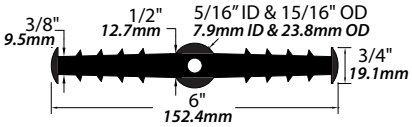
717 STD. WT. 1.52 lbs/ft 2.26 Kg/m HEAD PRESS. 125' 373 KPa



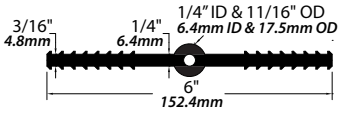
716 STD. WT. 1.55 lbs/ft 2.31 Kg/m HEAD PRESS. 125' 373 KPa



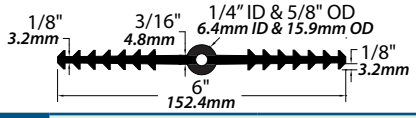
706 STD. WT. 1.90 lbs/ft 2.83 Kg/m HEAD PRESS. 150' 448 KPa



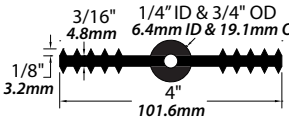
704 STD. WT. .98 lbs/ft 1.46 Kg/m HEAD PRESS. 100' 299 KPa



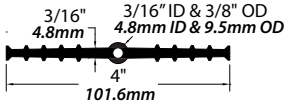
703 STD. WT. 0.73 lbs/ft 1.09 Kg/m HEAD PRESS. 100' 299 KPa



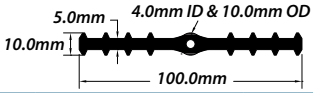
702 STD. WT. 0.74 lbs/ft 1.10 Kg/m HEAD PRESS. 65' 194 KPa



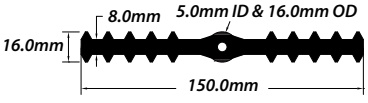
701 STD. WT. 0.42 lbs/ft 0.63 Kg/m HEAD PRESS. 65' 194 KPa



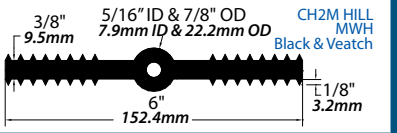
643 STD. WT. 0.58 lbs/ft 0.86 Kg/m HEAD PRESS. 50' 149 KPa



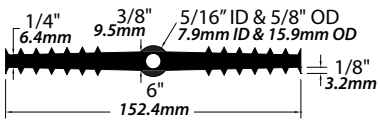
644 STD. WT. 1.37 lbs/ft 2.04 Kg/m HEAD PRESS. 100' 299 KPa



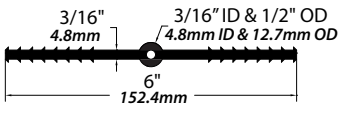
732 STD. WT. 1.60 lbs/ft 2.38 Kg/m HEAD PRESS. 125' 373 KPa



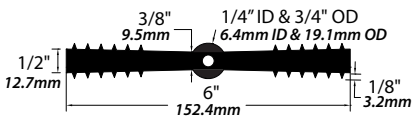
736 STD. WT. 1.41 lbs/ft 2.10 Kg/m HEAD PRESS. 125' 373 KPa



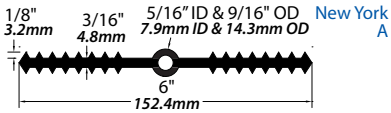
779 STD. WT. 0.86 lbs/ft 1.28 Kg/m HEAD PRESS. 100' 299 KPa



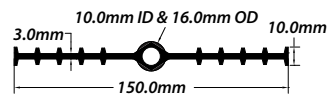
827 STD. WT. 1.63 lbs/ft 2.43 Kg/m HEAD PRESS. 125' 373 KPa



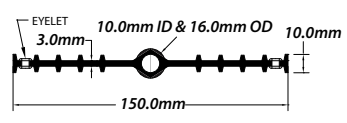
647 STD. WT. 0.92 lbs/ft 1.37 Kg/m HEAD PRESS. 100' 299 KPa



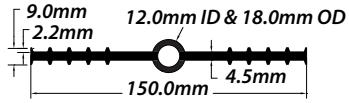
961 STD. WT. .63 lbs/ft .94 Kg/m HEAD PRESS. 50' 150 KPa



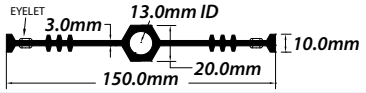
964 STD. WT. .63 lbs/ft .94 Kg/m HEAD PRESS. 50' 150 KPa



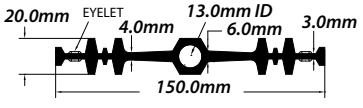
972 STD. WT. .75 lbs/ft 1.12 Kg/m HEAD PRESS. 100' 299 KPa



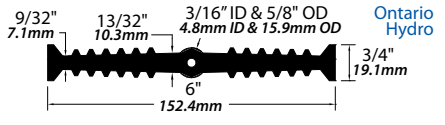
915 STD. WT. 0.68 lbs/ft 1.01 Kg/m HEAD PRESS. 65' 194 KPa



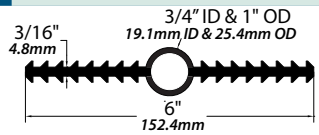
951 STD. WT. 1.06 lbs/ft 1.58 Kg/m HEAD PRESS. 75' 224 KPa



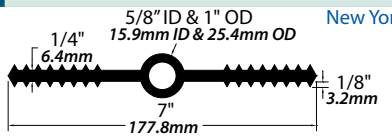
788 STD. WT. 1.66 lbs/ft 2.47 Kg/m HEAD PRESS. 175' 523 KPa



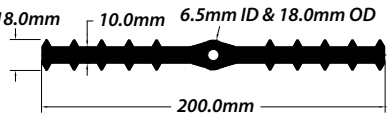
780 STD. WT. 0.98 lbs/ft 1.46 Kg/m HEAD PRESS. 100' 299 KPa



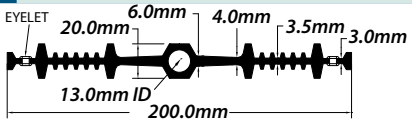
649 STD. WT. 1.28 lbs/ft 1.90 Kg/m HEAD PRESS. 100' 299 KPa



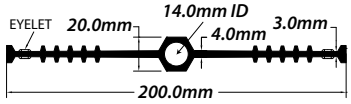
645 STD. WT. 2.13 lbs/ft 3.17 Kg/m HEAD PRESS. 150' 448 KPa



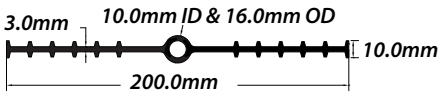
952 STD. WT. 1.32 lbs/ft 1.97 Kg/m HEAD PRESS. 125' 373 KPa



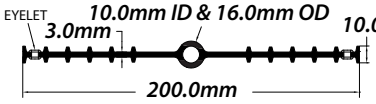
992 STD. WT. .92 lbs/ft 1.37 Kg/m HEAD PRESS. 100' KPa



962 STD. WT. .77 lbs/ft 1.15 Kg/m HEAD PRESS. 75' 224 KPa



965 STD. WT. .77 lbs/ft 1.15 Kg/m HEAD PRESS. 75' 224 KPa

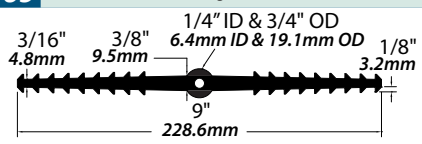


973 STD. WT. 1.07 lbs/ft 1.59 Kg/m HEAD PRESS. 100' 299 KPa

963 STD. WT. .87 lbs/ft 1.30 Kg/m HEAD PRESS. 100' 299 KPa

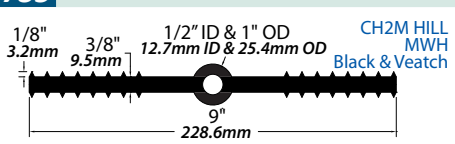
Ribbed with Centerbulb / Tear Web

709 STD. WT. 1.63 lbs/ft 2.43 Kg/m HEAD PRESS. 175' 523 KPa

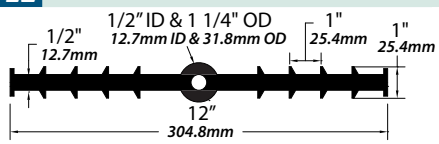


735 STD. WT. 2.45 lbs/ft 3.65 Kg/m HEAD PRESS. 175' 523 KPa

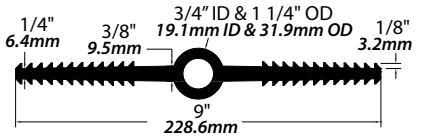
CH2M HILL
MWH
Black & Veatch



712 STD. WT. 4.38 lbs/ft 6.52 Kg/m HEAD PRESS. 225' 672 KPa

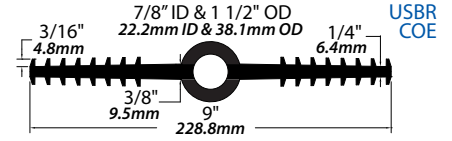


718 STD. WT. 2.22 lbs/ft 3.30 Kg/m HEAD PRESS. 175' 523 KPa

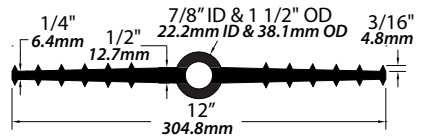


696 STD. WT. 2.65 lbs/ft 3.94 Kg/m HEAD PRESS. 175' 523 KPa

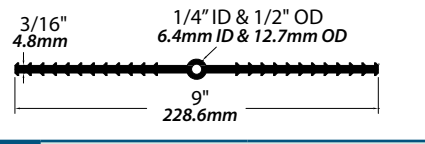
USBR
COE



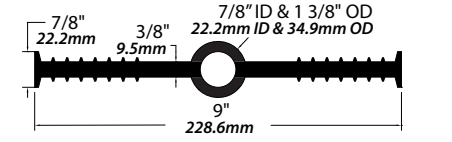
713 STD. WT. 3.60 lbs/ft 5.36 Kg/m HEAD PRESS. 225' 672 KPa



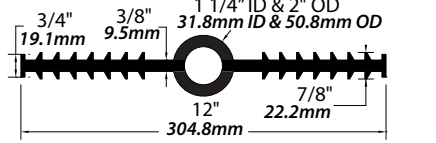
707 STD. WT. 1.19 lbs/ft 1.77 Kg/m HEAD PRESS. 100' 299 KPa



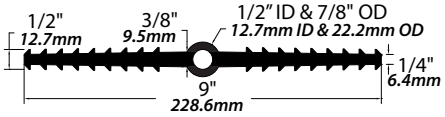
738 STD. WT. 2.73 lbs/ft 4.06 Kg/m HEAD PRESS. 150' 448 KPa



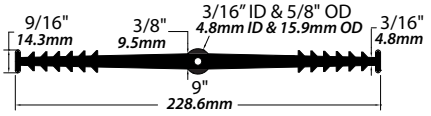
726 STD. WT. 3.97 lbs/ft 5.91 Kg/m HEAD PRESS. 200' 598 KPa



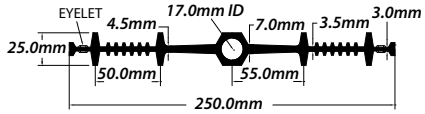
731 STD. WT. 2.00 lbs/ft 2.98 Kg/m HEAD PRESS. 175' 523 KPa



745 STD. WT. 1.79 lbs/ft 2.66 Kg/m HEAD PRESS. 175' 523 KPa

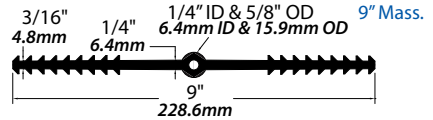


953 STD. WT. 1.77 lbs/ft 2.64 Kg/m HEAD PRESS. 150' 448 KPa



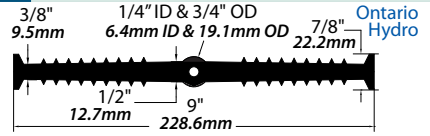
708 STD. WT. 1.45 lbs/ft 2.15 Kg/m HEAD PRESS. 125' 373 KPa

9" Mass.

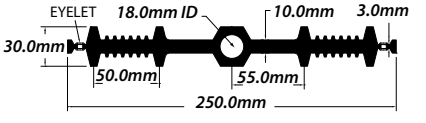


778 STD. WT. 2.85 lbs/ft 4.24 Kg/m HEAD PRESS. 200' 598 KPa

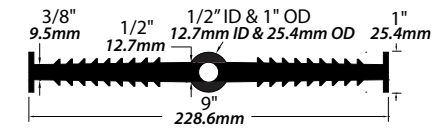
Ontario
Hydro



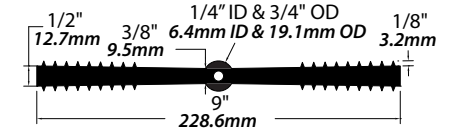
954 STD. WT. 3.07 lbs/ft 4.56 Kg/m HEAD PRESS. 200' 598 KPa



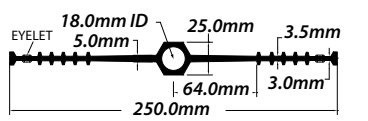
710 STD. WT. 2.72 lbs/ft 4.05 Kg/m HEAD PRESS. 200' 598 KPa



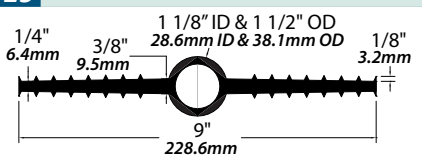
829 STD. WT. 2.67 lbs/ft 3.97 Kg/m HEAD PRESS. 175' 523 KPa



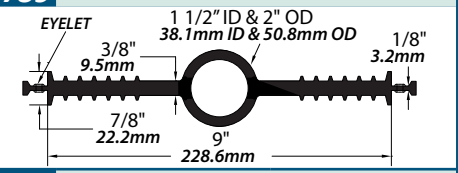
935 STD. WT. 1.21 lbs/ft 1.80 Kg/m HEAD PRESS. 125' 373 KPa



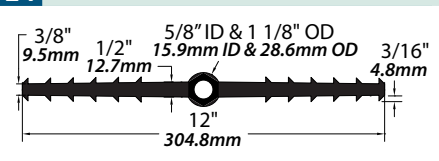
719 STD. WT. 2.05 lbs/ft 3.05 Kg/m HEAD PRESS. 150' 448 KPa



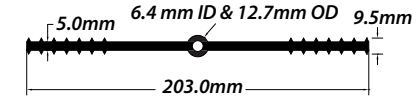
739 STD. WT. 2.75 lbs/ft 4.09 Kg/m HEAD PRESS. 150' 448 KPa



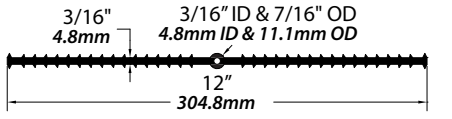
714 STD. WT. 3.62 lbs/ft 5.39 Kg/m HEAD PRESS. 225' 672 KPa



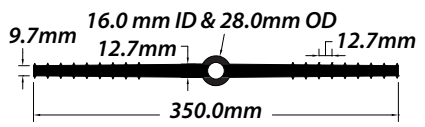
838 STD. WT. 1.10 lbs/ft 1.64 Kg/m HEAD PRESS. 150' 448 KPa



711 STD. WT. 1.56 lbs/ft 2.32 Kg/m HEAD PRESS. 150' 448 KPa

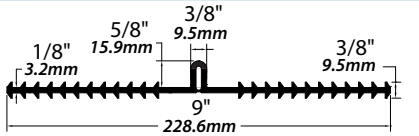


905 STD. WT. 3.80 lbs/ft 5.65 Kg/m HEAD PRESS. 260' 776 KPa

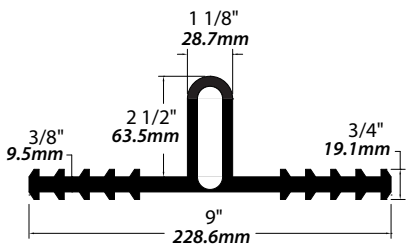


TEAR WEB

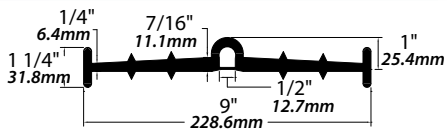
699 STD. WT. 1.00 lbs/ft 1.49 Kg/m HEAD PRESS. 100' 299 KPa



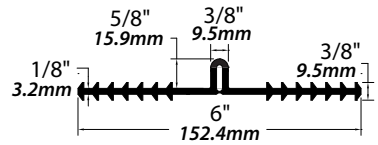
700 STD. WT. 3.78 lbs/ft 5.63 Kg/m HEAD PRESS. 150' 448 KPa



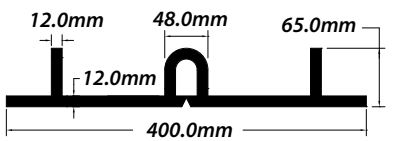
728 STD. WT. 2.68 lbs/ft 3.99 Kg/m HEAD PRESS. 175' 523 KPa



698 STD. WT. 0.78 lbs/ft 1.16 Kg/m HEAD PRESS. 65' 194 KPa

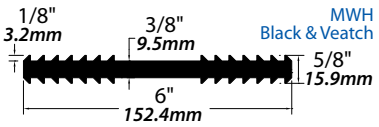


990 STD. WT. 6.81 lbs/ft 10.14 Kg/m

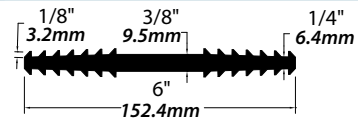


Flat Ribbed / Dumbbell with Centerbulb

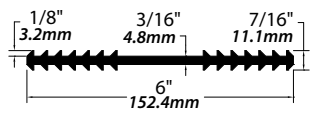
679 STD. WT. 1.50 lbs/ft 2.23 Kg/m HEAD PRESS. 125' 373 KPa



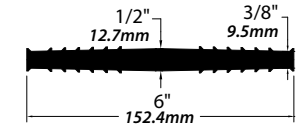
783 STD. WT. 1.39 lbs/ft 2.07 Kg/m HEAD PRESS. 125' 373 KPa



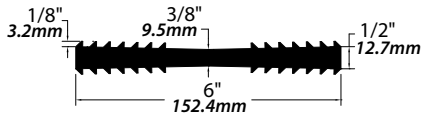
782 STD. WT. .84 lbs/ft 1.25 Kg/m HEAD PRESS. 75' 224 KPa



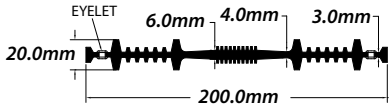
784 STD. WT. 1.60 lbs/ft 2.38 Kg/m HEAD PRESS. 150' 448 KPa



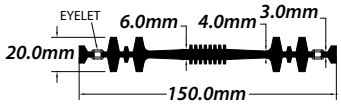
580 STD. WT. 1.71 lbs/ft 2.54 Kg/m HEAD PRESS. 125' 373 KPa



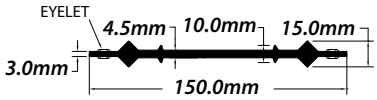
956 STD. WT. 1.32 lbs/ft 1.96 Kg/m HEAD PRESS. 125' 373 KPa



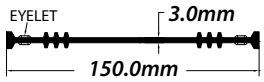
955 STD. WT. 1.01 lbs/ft 1.51 Kg/m HEAD PRESS. 75' 224 KPa



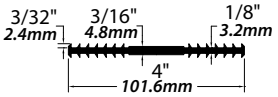
978 STD. WT. .72 lbs/ft 1.07 Kg/m HEAD PRESS. 75' 224 KPa



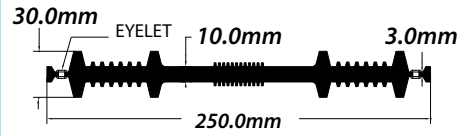
995 STD. WT. .54 lbs/ft .80 Kg/m HEAD PRESS. 65' 194 KPa



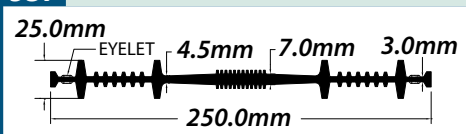
781 STD. WT. .43 lbs/ft .64 Kg/m HEAD PRESS. 65' 194 KPa



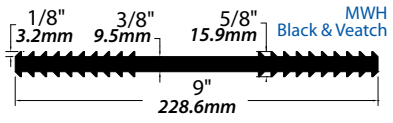
958 STD. WT. 2.95 lbs/ft 4.39 Kg/m HEAD PRESS. 200' 598 KPa



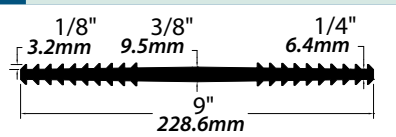
957 STD. WT. 1.75 lbs/ft 2.60 Kg/m HEAD PRESS. 150' 448 KPa



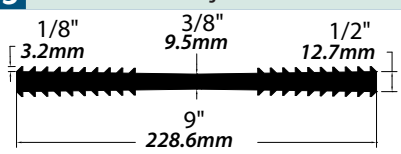
646 STD. WT. 2.37 lbs/ft 3.53 Kg/m HEAD PRESS. 175' 523 KPa



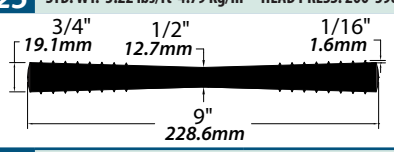
786 STD. WT. 2.07 lbs/ft 3.08 Kg/m HEAD PRESS. 175' 523 KPa



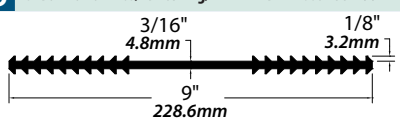
773 STD. WT. 2.40 lbs/ft 3.57 Kg/m HEAD PRESS. 175' 523 KPa



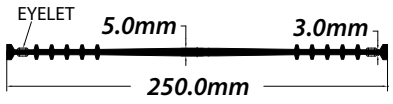
825 STD. WT. 3.22 lbs/ft 4.79 Kg/m HEAD PRESS. 200' 598 KPa



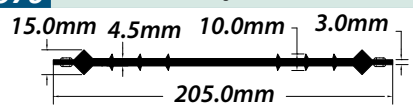
785 STD. WT. 1.22 lbs/ft 1.82 Kg/m HEAD PRESS. 100' 299 KPa



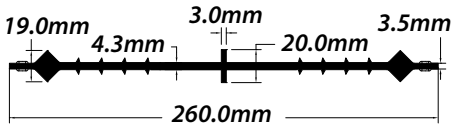
975 STD. WT. 1.07 lbs/ft 1.59 Kg/m HEAD PRESS. 100' 299 KPa



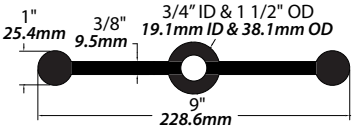
976 STD. WT. .97 lbs/ft 1.44 Kg/m HEAD PRESS. 125' 373 KPa



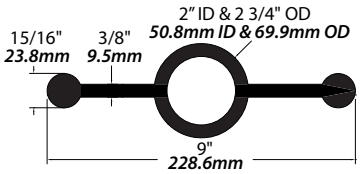
970 STD. WT. 1.27 lbs/ft 1.89 Kg/m HEAD PRESS. 125' 373 KPa



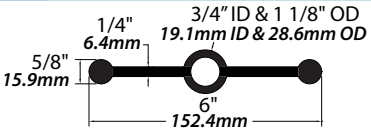
753 STD. WT. 3.10 lbs/ft 4.61 Kg/m HEAD PRESS. 150' 448 KPa



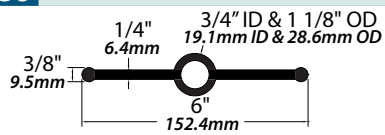
754 STD. WT. 3.70 lbs/ft 5.51 Kg/m HEAD PRESS. 150' 448 KPa



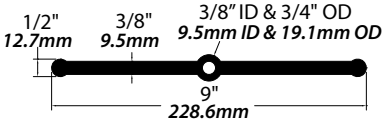
757 STD. WT. 1.41 lbs/ft 2.10 Kg/m HEAD PRESS. 100' 299 KPa



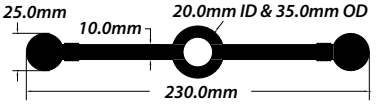
756 STD. WT. 1.20 lbs/ft 1.79 Kg/m HEAD PRESS. 100' 299 KPa



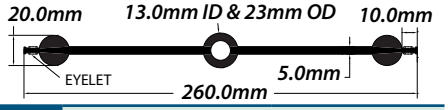
758 STD. WT. 2.06 lbs/ft 3.06 Kg/m HEAD PRESS. 125' 373 KPa



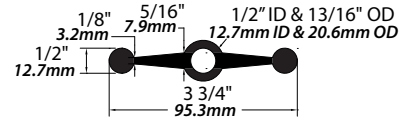
933 STD. WT. 2.87 lbs/ft 4.27 Kg/m HEAD PRESS. 150' 448 KPa



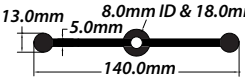
936 STD. WT. 1.71 lbs/ft 2.54 Kg/m HEAD PRESS. 125' 373 KPa



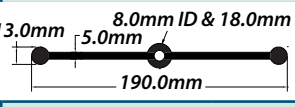
654 STD. WT. 0.68 lbs/ft 1.01 Kg/m HEAD PRESS. 65' 194 KPa



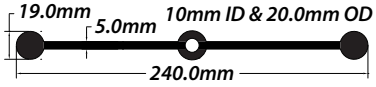
640 STD. WT. .92 lbs/ft 1.37 Kg/m HEAD PRESS. 65' 194 KPa



641 STD. WT. 1.15 lbs/ft 1.71 Kg/m HEAD PRESS. 100' 299 KPa



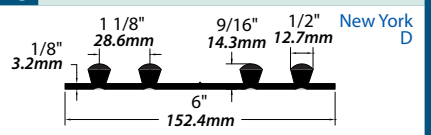
642 STD. WT. 1.68 lbs/ft 2.50 Kg/m HEAD PRESS. 150' 448 KPa



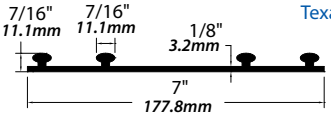
Ribbed waterstops provide the best sealing characteristics

Base Seal / Crack Inducer

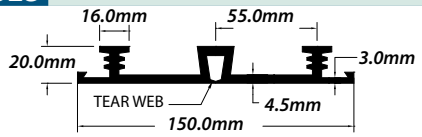
776 STD. WT. .83 lbs/ft 1.24 Kg/m HEAD PRESS. 100' 299 KPa — New York D



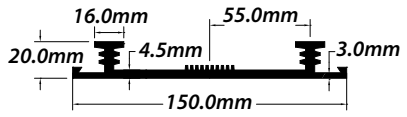
774 STD. WT. .79 lbs/ft 1.18 Kg/m HEAD PRESS. 75' 224 KPa — Texas Hwy Type B



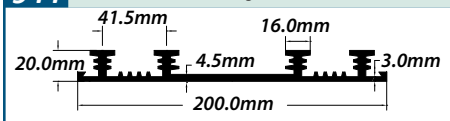
923 STD. WT. 1.02 lbs/ft 1.51 Kg/m HEAD PRESS. 75' 224 KPa



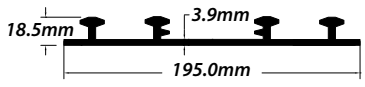
927 STD. WT. .89 lbs/ft 1.32 Kg/m HEAD PRESS. 75' 224 KPa



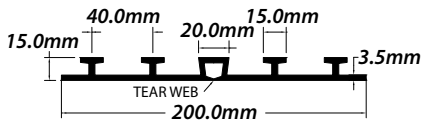
944 STD. WT. 1.30 lbs/ft 1.93 Kg/m HEAD PRESS. 125' 373 KPa



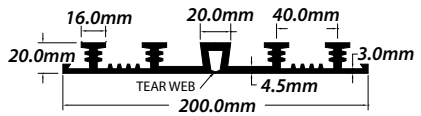
982 STD. WT. 1.15 lbs/ft 1.71 Kg/m HEAD PRESS. 125' 373 KPa



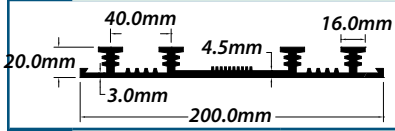
939 STD. WT. 1.05 lbs/ft 1.56 Kg/m HEAD PRESS. 100' 299 KPa



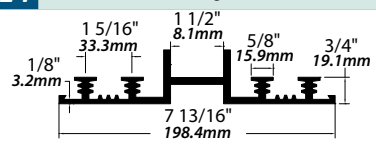
924 STD. WT. 1.45 lbs/ft 2.16 Kg/m HEAD PRESS. 125' 373 KPa



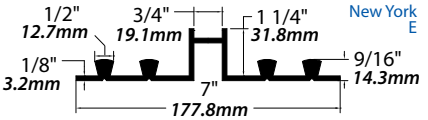
928 STD. WT. 1.32 lbs/ft 1.97 Kg/m HEAD PRESS. 125' 373 KPa



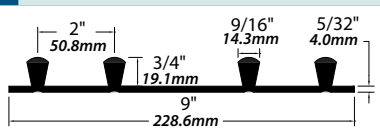
914 STD. WT. 1.61 lbs/ft 2.40 Kg/m HEAD PRESS. 125' 373 KPa



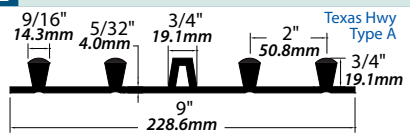
648 STD. WT. 1.21 lbs/ft 1.80 Kg/m HEAD PRESS. 100' 299 KPa — New York E



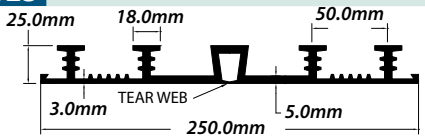
771 STD. WT. 1.53 lbs/ft 2.28 Kg/m HEAD PRESS. 100' 299 KPa



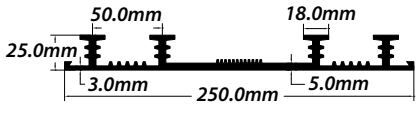
772 STD. WT. 1.85 lbs/ft 2.75 Kg/m HEAD PRESS. 100' 299 KPa — Texas Hwy Type A



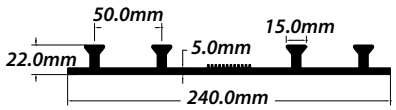
925 STD. WT. 1.84 lbs/ft 2.74 Kg/m HEAD PRESS. 150' 448 KPa



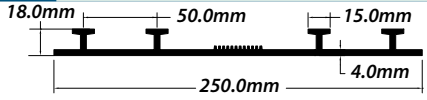
929 STD. WT. 1.68 lbs/ft 2.49 Kg/m HEAD PRESS. 150' 448 KPa



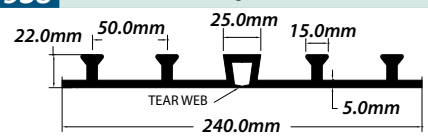
937 STD. WT. 1.71 lbs/ft 2.55 Kg/m HEAD PRESS. 100' 299 KPa



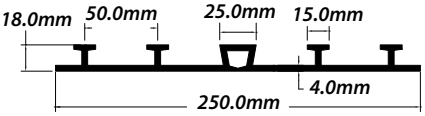
960 STD. WT. 1.30 lbs/ft 1.94 Kg/m HEAD PRESS. 150' 448 KPa



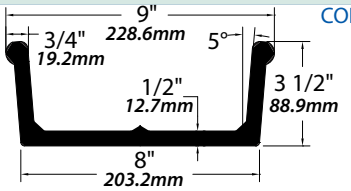
938 STD. WT. 1.85 lbs/ft 2.76 Kg/m HEAD PRESS. 100' 299 KPa



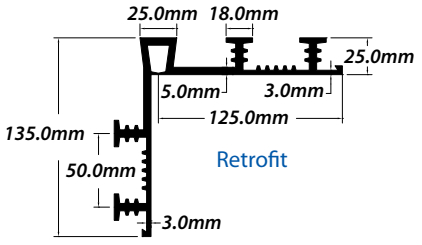
959 STD. WT. 1.41 lbs/ft 2.10 Kg/m HEAD PRESS. 150' 448 KPa



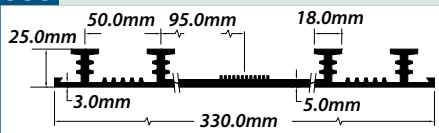
775 STD. WT. 4.64 lbs/ft 6.91 Kg/m — COE



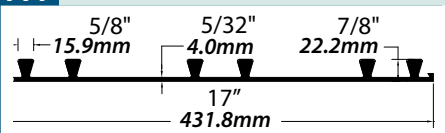
931 STD. WT. 1.81 lbs/ft 2.69 Kg/m



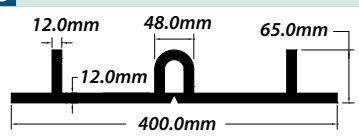
930 STD. WT. 2.04 lbs/ft 3.04 Kg/m HEAD PRESS. 175' 523 KPa



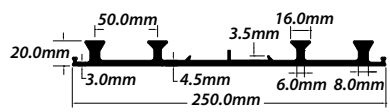
777 STD. WT. 2.75 lbs/ft 4.09 Kg/m



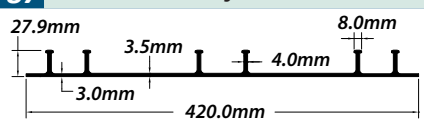
990 STD. WT. 6.81 lbs/ft 10.14 Kg/m



966 STD. WT. 1.59 lbs/ft 2.37 Kg/m HEAD PRESS. 100' 299 KPa

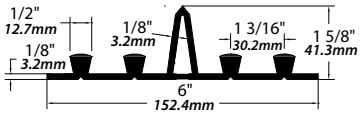


787 STD. WT. 1.81 lbs/ft 2.69 Kg/m

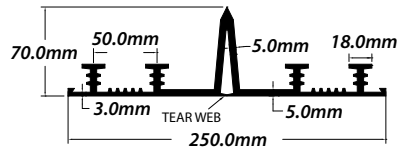


Crack Inducer

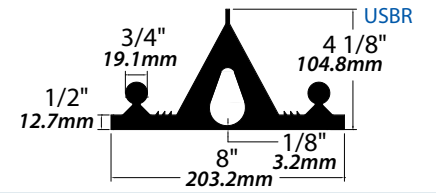
639 STD. WT. 1.07 lbs/ft 1.59 Kg/m HEAD PRESS. 100' 299 KPa



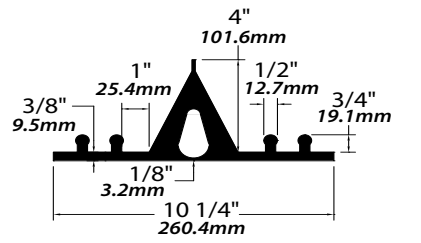
926 STD. WT. 2.26 lbs/ft 3.36 Kg/m HEAD PRESS. 150' 448 KPa



806 STD. WT. 5.00 lbs/ft 7.44 Kg/m — USBR

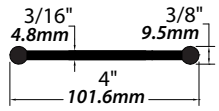


652 STD. WT. 5.00 lbs/ft 7.44 Kg/m

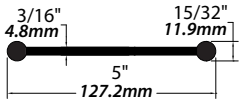


Dumbbell Split Flange Labyrinth

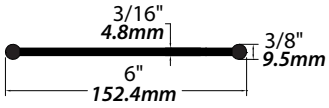
741 STD. WT. 0.47 lbs/ft 0.70 Kg/m HEAD PRESS. 65' 194 KPa



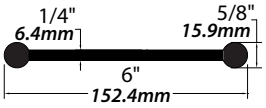
744 STD. WT. 0.63 lbs/ft 0.94 Kg/m HEAD PRESS. 65' 194 KPa



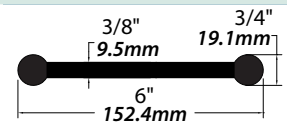
746 STD. WT. 0.71 lbs/ft 1.06 Kg/m HEAD PRESS. 75' 224 KPa



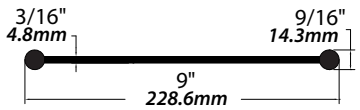
747 STD. WT. 1.11 lbs/ft 1.65 Kg/m HEAD PRESS. 100' 299 KPa



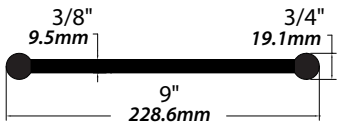
748 STD. WT. 1.51 lbs/ft 2.25 Kg/m HEAD PRESS. 125' 373 KPa



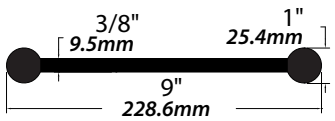
750 STD. WT. 1.18 lbs/ft 1.76 Kg/m HEAD PRESS. 100' 299 KPa



751 STD. WT. 2.18 lbs/ft 3.24 Kg/m HEAD PRESS. 150' 448 KPa

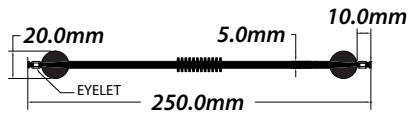


752 STD. WT. 2.55 lbs/ft 3.79 Kg/m HEAD PRESS. 150' 448 KPa

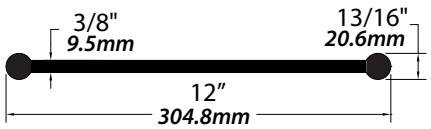


932 STD. WT. 2.66 lbs/ft 3.97 Kg/m HEAD PRESS. 150' 448 KPa

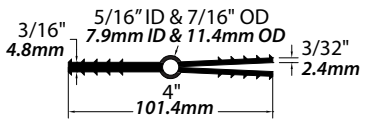
934 STD. WT. 1.58 lbs/ft 2.36 Kg/m HEAD PRESS. 125' 373 KPa



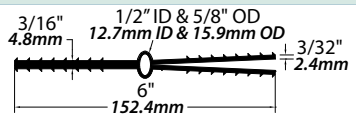
755 STD. WT. 2.99 lbs/ft 4.44 Kg/m HEAD PRESS. 200' 598 KPa



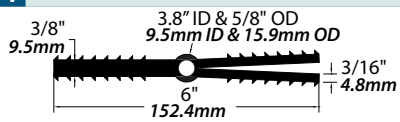
721 STD. WT. .50 lbs/ft .74 Kg/m HEAD PRESS. 65' 194 KPa



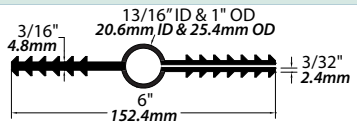
723 STD. WT. .76 lbs/ft 1.13 Kg/m HEAD PRESS. 100' 299 KPa



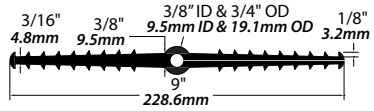
724 STD. WT. 1.54 lbs/ft 2.29 Kg/m HEAD PRESS. 125' 373 KPa



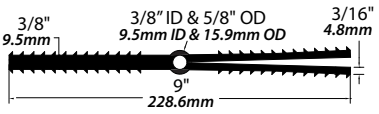
730 STD. WT. 1.02 lbs/ft 1.52 Kg/m HEAD PRESS. 100' 299 KPa



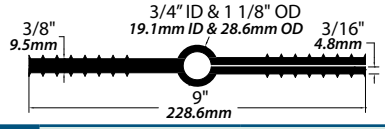
722 STD. WT. 1.90 lbs/ft 2.83 Kg/m HEAD PRESS. 150' 448 KPa



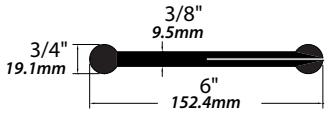
727 STD. WT. 2.25 lbs/ft 3.35 Kg/m HEAD PRESS. 150' 448 KPa



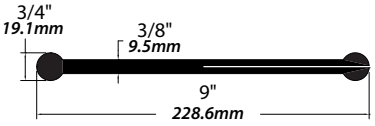
653 STD. WT. 2.25 lbs/ft 3.35 Kg/m HEAD PRESS. 150' 448 KPa



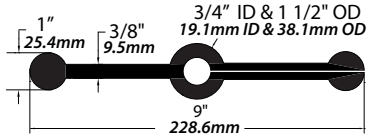
759 STD. WT. 1.49 lbs/ft 2.22 Kg/m HEAD PRESS. 125' 373 KPa



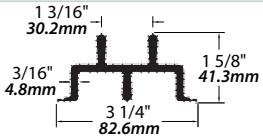
760 STD. WT. 2.20 lbs/ft 3.27 Kg/m HEAD PRESS. 150' 448 KPa



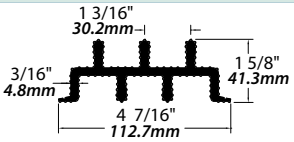
725 STD. WT. 2.93 lbs/ft 4.36 Kg/m HEAD PRESS. 150' 448 KPa



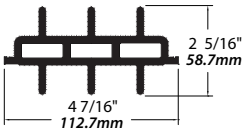
789 STD. WT. .84 lbs/ft 1.25 Kg/m HEAD PRESS. 25' 75 KPa



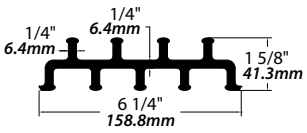
790 STD. WT. 1.24 lbs/ft 1.85 Kg/m HEAD PRESS. 50' 149 KPa



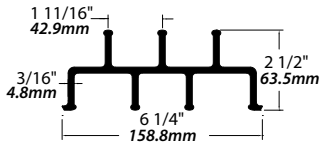
807 STD. WT. 2.00 lbs/ft 2.98 Kg/m HEAD PRESS. 50' 149 KPa



830 STD. WT. 1.81 lbs/ft 2.69 Kg/m HEAD PRESS. 50' 149 KPa



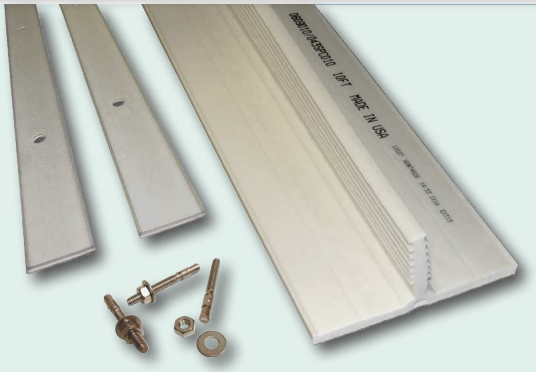
835 STD. WT. 1.80 lbs/ft 2.68 Kg/m HEAD PRESS. 50' 149 KPa



A Note About Head Pressure Ratings:

Head Pressure Ratings are based on parameters published in the Corps of Engineers document, ***Waterstops and Other Preformed Joint Materials for Civil Works Structures EM 1110-2-2101***, dated 30 September 1995. Sample testing conducted by Greenstreak on select profiles has indicated a conservative tendency in these ratings. That said, the published Head Pressure Ratings should be considered to be ultimate values. An appropriate safety factor should be applied to these values.

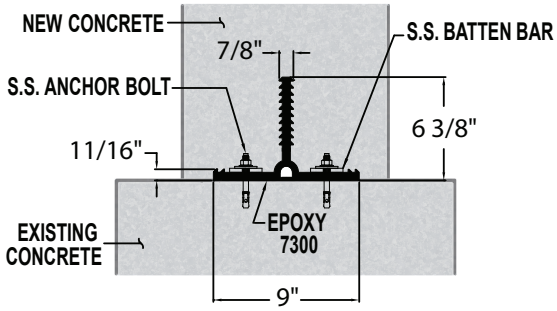
Contact a Greenstreak engineer for more information.



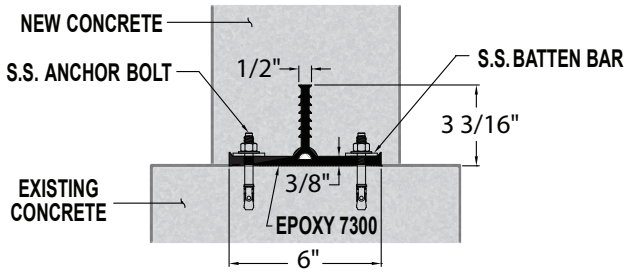
Retrofit Waterstop Systems

Retrofit waterstops seal joints where new construction meets an existing structure and can be suitable for working joints. Systems include waterstop profile, stainless steel batten bars and anchor bolts. Epoxy 7300 is sold separately.

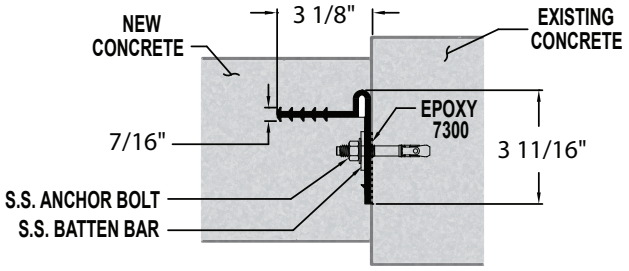
667 SYSTEM STD. WT. with hardware 8.27 lbs/ft 12.31 Kg/m



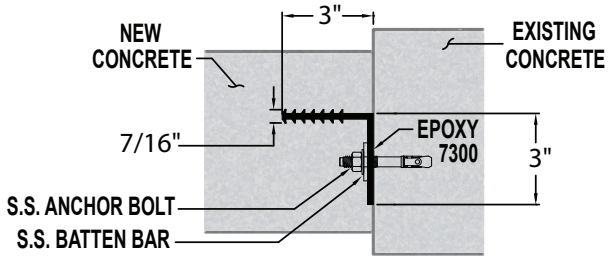
609 SYSTEM STD. WT. with hardware 2.92 lbs/ft 4.35 Kg/m



581 SYSTEM STD. WT. with hardware 1.51 lbs/ft 2.25 Kg/m



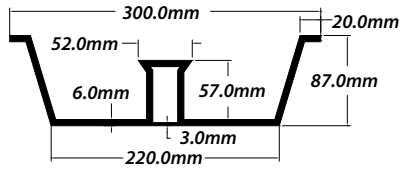
655 SYSTEM STD. WT. with hardware 1.38 lbs/ft 2.05 Kg/m



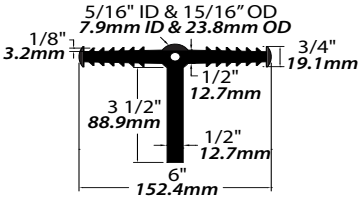
Specialty Shapes

These shapes have been developed to meet unique requirements of clients or other specifying groups. Consult a Greenstreak engineer for more information or for special applications.

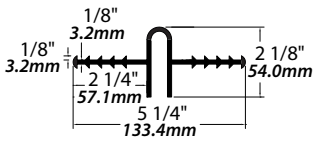
770 STD. WT. 3.15 lbs/ft 4.69 Kg/m



606 STD. WT. 2.92 lbs/ft 4.35 Kg/m

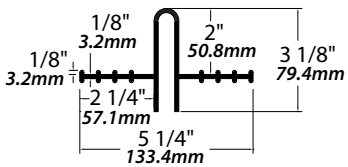


791 STD. WT. 0.86 lbs/ft 1.28 Kg/m HEAD PRESS. 35' 105 KPa

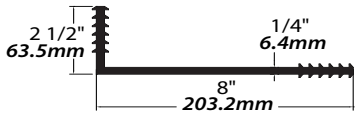


792 STD. WT. 1.10 lbs/ft 1.63 Kg/m HEAD PRESS. 35' 105 KPa

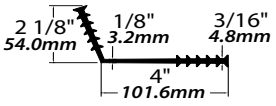
W1-2 Calif.



650 STD. WT. 1.64 lbs/ft 2.44 Kg/m

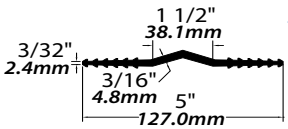


765 STD. WT. .64 lbs/ft .95 Kg/m



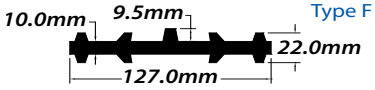
729 STD. WT. .64 lbs/ft .95 Kg/m HEAD PRESS. 35' 105 KPa

5" Mass.



762 STD. WT. 1.51 lbs/ft 2.25 Kg/m HEAD PRESS. 100' 299 KPa

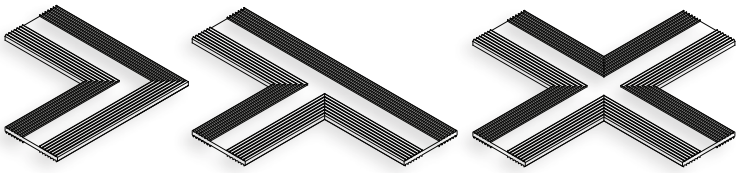
Soil Conservation Service Type F



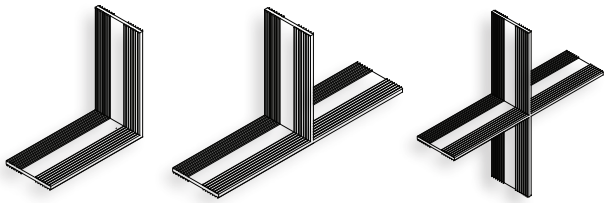
Typical PVC Fabrications

Greenstreak strongly recommends factory fabricated transitions and intersections. Typical fabrications for many of the most common shapes are inventoried by Greenstreak and available to meet construction schedules. Greenstreak can provide customized fabrications to suit unusual configurations or a convergence of differing profiles.

Flat Ell, Tee and Cross Fabrications



Vertical Ell, Tee and Cross Fabrications



No. 213
4 ½" x 14" Plate

No. 215
9" x 9" Plate

No. 214
2" x 14" Plate

Splicing Irons For Field Welding

As noted, a quality waterstop installation requires quality welds. Greenstreak Splicing Irons are specifically designed for welding thermoplastic waterstop and are constructed of the highest quality components for superior and long lasting performance. No other means or methods can be used.

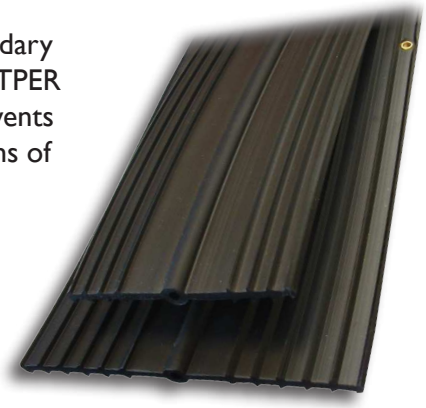
Temperature controls are adjustable for various conditions and products. Irons are typically 120V operation, but 240V is available for the 213 and 214 irons.

The 213 and 215 irons have an integral thermometer to display the iron temperature for accurate welding. The splicing iron should be large enough to melt the enire cross-section of the waterstop profile. All irons are supplied with a teflon coated cover necessary for welding. Replacement covers are available for purchase.

Chemical Resistant Waterstop

Greenstreak's companion brand, Westec,® offers waterstop solutions for secondary containment in petrochemical and industrial applications. Westec's Envirostop® TPER (Thermoplastic Elastomeric Rubber) Waterstops resist a wide range of oils, solvents and aggressive chemicals. Alcohols, ketones, glycols, esters and aqueous solutions of acids, bases and salts have little effect on Westec TPER Waterstop.

TPER has excellent ozone resistance, low temperature flexibility, excellent high temperature (up to 250° F) performance and is heat weldable. Westec TPER Waterstop can also be defined as a Thermoplastic Valcanizate, TPV.

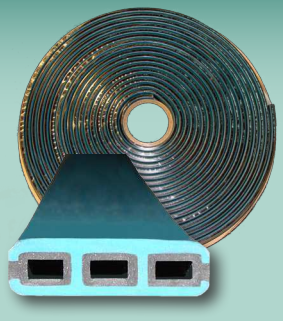


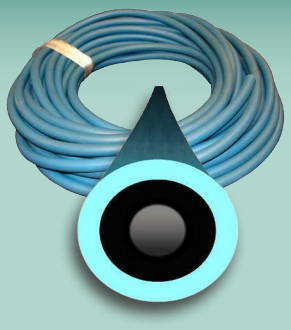
Westec's TPER Waterstop is Certified to NSF/ANSI Standard 61 for Drinking Water System Components

Contact a Greenstreak engineer or visit www.Chemstop.com for more information.

Strip Applied Waterstops And Injection Hose Systems

Apr. 2011





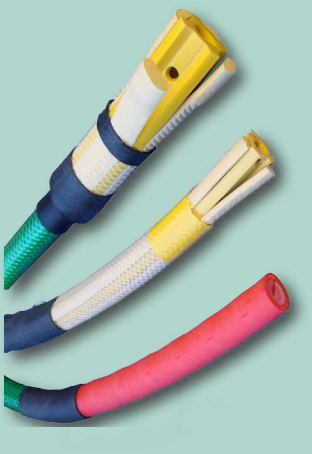
HYDROTITE is a world renowned hydrophilic waterstop. Composed of modified chloroprene rubber protected with a special delay coating, Hydrotite expands when exposed to water, creating an effective compression seal within joints where limited movement will occur.

Hydrotite is used extensively in sealing concrete construction joints, pipe penetrations, precast concrete segments, tunnel lining segments and for repair of existing joints or retrofit applications. Several shapes and sizes are available.

SikaSwell A (formerly Duroseal Gasket) and **SWELLSTOP** expand upon contact with water to form a compression seal in nonmoving concrete joints. SikaSwell A is a water-swelling acrylate-ester and Swellstop is a flexible butyl rubber and swellable clay waterproofing compound. As with all hydrophilic waterstops, these products are suggested for applications where exposure to moisture is constant.

LOCKSTOP is a single component and self-sealing mastic waterstop which bonds to concrete to prevent moisture from penetrating nonmoving joints.

SikaSwell A, Swellstop, Lockstop and some Hydrotite profiles are suitable for nonworking joints only.



Greenstreak offers **FUKO VT INJECTION HOSE**, the world's number one injection hose system. **FUKO VT** Systems are available in two sizes and can deliver Portland Cement, Microfine Cement, or a variety of resins to seal cracks or voids in the joint area. **FUKO VT** has a unique "re-injectable" design, which allows the hose to be cleaned. This key feature allows for a complete maintenance program if leaks appear and future re-injections are required.

FUKO Eco 1 (formerly Duroject) is an injection hose for delivering cements or resins for planned sealing of construction joints. It is for single injection applications. Greenstreak offers a variety of injection materials for FUKO Injection Hose Systems.

Sika® GREENSTREAK USA 800-325-9504

GREENSTREAK GROUP, INC