# TIMEWELL

## DRAINAGE PRODUCTS

# STORM WATER

## PRODUCT CATALOG

800-720-8453 | timewellpipe.com

# WHY DO BUSINESS WITH TIMEWELL?

As a family owned
and operated company,
we understand your need for competitive pricing,
no-nonsense sales and timely service. Our complete line of drainage products
and exclusive services will simplify your purchasing process and maximize your budget.

## With Timewell you get:

- A one-stop shop for all your commercial, industrial and highway drainage needs
- Materials delivered right to your business or jobsite
- Environmental solutions to meet EPA Phase II requirements
- An in-house project design team


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# MAXFLO AASHTO DUAL WALL PIPE

MaXflo is a superior corrugated HDPE pipe with smooth interior designed for gravity flow storm sewer, retention/detention and other high capacity drainage applications.

NTPEP
NATIONAL TRANSPORTATION PRODUCT EVALUATION PROGRAM

## SPECIFICATIONS

Timewell participates in and complies to all production standards set forth by the National Transportation Product Evaluation Program. Pipe shall comply with requirements for test methods, dimensions and markings found in AASHTO designations M252 & M294.

## JOINTS

The MaXflo Bell-and-Spigot joint system provides superior load-bearing capability and improved hydraulics. MaXflo is supplied with an elastomeric gasket meeting the requirements of ASTM F477. Connections are available in soil tight and watertight configurations. Watertight joints conform to ASTM D3212. When applicable, plain end pipe utilizing a wrap around coupler is available.

## FITTINGS

Fittings conform to AASHTO M252 or M294. Fittings can be molded or fabricated. Common fittings are branch fittings such as wyes, tees, and end caps as well as in-line joint fittings like couplers and reducers. Couplers must provide adequate strength to maintain pipe alignment and prevent separation.

**Timewell offers soil tight and watertight options for fitting connections.**
See page 20 for details.

| Size | Part Number | Configuration | |
|---|---|---|---|
| 4” | 08004-20S | MaXflo 4” | Bell/Spigot |
| 6” | 08006-20S | MaXflo 6” | Bell/Spigot |
| 8” | 08008-20S | MaXflo 8” | Bell/Spigot |
| 10” | 08010-20S | MaXflo 10” | Bell/Spigot |
| 12” | 08012-20S | MaXflo 12” | Bell/Spigot |
| 12” | 08012-24PE / 08012-30PE | MaXflo 12” | Plain End |
| 15” | 08015-20S | MaXflo 15” | Bell/Spigot |
| 15” | 08015-24PE / 08015-30PE | MaXflo 15” | Plain End |
| 18” | 08018-20S | MaXflo 18” | Bell/Spigot |
| 18” | 08018-24PE / 08018-30PE | MaXflo 18” | Plain End |
| 24” | 08024-20S | MaXflo 24” | Bell/Spigot |
| 24” | 08024-24PE / 08024-30PE | MaXflo 24” | Plain End |
| 30” | 08030-20S | MaXflo 30” | Bell/Spigot |
| 30” | 08030-24PE / 08030-30PE | MaXflo 30” | Plain End |
| 36” | 08036-20S | MaXflo 36” | Bell/Spigot |
| 36” | 08036-24PE / 08036-30PE | MaXflo 36” | Plain End |
| 42” | 08042-20S | MaXflo 42” | Bell/Spigot |
| 48” | 08048-20S | MaXflo 48” | Bell/Spigot |
| 60” | 08060-20S | MaXflo 60” | Bell/Spigot |

**MANNING’S “n” VALUES**
(Coefficient of Roughness)

| Product | Diameter | Mannings “n” Value |
|---|---|---|
| Timewell MaXflo* | 4” - 48” | 0.012 |

* Timewell Drainage Products recommends the use of a Manning’s “n” value of 0.012.

| Nominal Diameter | Inside Diameter (Average) | Outside Diameter (Average) | Minimum Pipe Stiffness at 5% Deflection | Weight (lbs./20ft.) |
|---|---|---|---|---|
| 4” | 4.03” | 4.73” | 49.3 PSI | 9 lbs. |
| 6” | 6.05” | 6.89” | 49.3 PSI | 23.5 lbs. |
| 8” | 8.06” | 9.11” | 49.3 PSI | 31 lbs. |
| 10” | 10.08” | 11.34” | 49.3 PSI | 50 lbs. |
| 12” | 12.09” | 14.40” | 50 PSI | 71 lbs. |
| 15” | 15.12” | 17.50” | 42 PSI | 90 lbs. |
| 18” | 18.12” | 21.05” | 40 PSI | 133 lbs. |
| 24” | 24.07” | 27.65” | 34 PSI | 216 lbs. |
| 30” | 30.48” | 35.65” | 29 PSI | 315 lbs. |
| 36” | 36.02” | 41.30” | 22.5 PSI | 420 lbs. |
| 42” | 41.40” | 47.70” | 21 PSI | 528 lbs. |
| 48” | 48.39” | 53.60” | 20 PSI | 660 lbs. |
| 60” | 60.20” | 66.40” | 15 PSI | 1,075 lbs. |

# MAXFLO Bell/Spigot Connection

12", 15", 18", 24" HDPE PIPE

30", 36", 48" HDPE PIPE

## DUAL WALL FEATURES:

- In-line bell design with ASTM F477 gaskets
- Soil tight and watertight joints available
- High performance bell/spigot design for superior connective strength
- All MaXflo bells cover a minimum of two ribs
- All pipe meets or exceeds AASHTO M252 and M294

*TIMEWELL MaXflo Pipe meets or exceeds numerous industry standards including:*

| | |
|---|---|
| **AASHTO M252** | **Requirements and testing for 3"-10" pipe, couplings and fittings** for use in subsurface drainage systems, storm sewers, and in surface drainage<br>Referenced Standards: - ASTM D618 - ASTM D883 - ASTM D3350 - ASTM D1693 - ASTM D2122 - ASTM D2412 - ASTM F667 - ASTM F412 |
| **AASHTO M294** | **Requirements and testing for 12"-60" pipe, couplings and fittings** for use in surface and subsurface drainage applications. Now with industry inclusion of recycled materials for sustainability and service life<br>Referenced Standards: - ASTM D618 - ASTM D883 - ASTM D3350 - ASTM D1693 - ASTM D2122 - ASTM D2444 - ASTM D2412 - ASTM F667 - AASHTO Standard Specification for Highway Bridges |
| **ASTM D3350** | **Identification of pipe and fitting materials** in accordance with a cell classification system |
| **ASTM D2321** | **Recommendations for the installation of pipe** used in sewers and other gravity-flow applications |
| **ASTM D3212** | **Specifications for joints of pipe systems** intended for drain, and gravity sewerage at internal or external pressures less than 25 ft head using flexible watertight elastomeric seals |
| **ASTM F477** | **Requirements for elastomeric seals (gaskets)** used to seal the joints of pipe used for gravity, low-pressure, and high-pressure applications |
| **ASTM F2306** | **Requirements for non-pressure (gravity flow) 8"-60" annular corrugated profile-wall** polyethylene (PE) pipe and fittings for gravity-flow storm sewer and subsurface drainage applications |
| **NTPEP** | **National Transportation Product Evaluation Program Certified:** Certification Program of AASHTO (4"-60") |

*Applies only to MaXflow water tight configurations.

# MAXFLO HDPE DUAL WALL PIPE

## MAXFLO AE PIPE

*MaXflo AE meets or exceeds the strength requirements of AASHTO M252 and M294 and ASTM 2648. It is the ideal product to help you meet LEED Requirements!*

### MAXFLO AE PIPE

| Size | Part Number | Configuration | |
|---|---|---|---|
| 4” | 08004-20AE | MaXflo 4” | Bell/Spigot |
| 6” | 08006-20AE | MaXflo 6” | Bell/Spigot |
| 8” | 08008-20AE | MaXflo 8” | Bell/Spigot |
| 10” | 08010-20AE | MaXflo 10” | Bell/Spigot |
| 12” | 08012-10AE / 08012-20AE | MaXflo 12” | Bell/Spigot |
| 15” | 08015-10AE / 08015-20AE | MaXflo 15” | Bell/Spigot |
| 18” | 08018-10AE / 08018-20AE | MaXflo 18” | Bell/Spigot |
| 24” | 08024-10AE / 08024-20AE | MaXflo 24” | Bell/Spigot |
| 30” | 08030-20AE | MaXflo 30” | Bell/Spigot |
| 36” | 08036-20AE | MaXflo 36” | Bell/Spigot |
| 48” | 08048-20AE | MaXflo 48” | Bell/Spigot |

### MANNING’S “n” VALUES
(Coefficient of Roughness)

| Product | Diameter | Mannings “n” Value |
|---|---|---|
| Timewell MaXflo* | 4” - 48” | 0.012 |

*Timewell Drainage Products recommends the use of a Manning’s “n” value of 0.012.

*TIMEWELL MaXflo AE Pipe meets the following standards:*

| | |
|---|---|
| **ASTM F2306** | Standard Specification for 12” – 60” Annular Corrugated Profile Wall Polyethylene Pipe and Fittings for Gravity Flow Storm Sewer and Subsurface Drainage Applications |
| **ASTM 2648** | Standard Specification for 2” – 60” Annular Corrugated Profile Wall Polyethylene (PE) Pipe and Fittings for Land Drainage Applications |
| ***AASHTO M294** | Standard Specification for Corrugated Polyethylene Pipe, 12 – 60” |
| ***AASHTO M252** | Standard Specification for Corrugated Polyethylene Pipe, 3 – 10” |
| **ASTM F477** | Standard Specification for Elastomeric Seals for Joining Plastic Pipe |

*Meets all requirements for this standard except the use of virgin resin materials

## AE FEATURES AND BENEFITS:

- Engineered blend of HDPE material including a minimum of 40% recycled material
- MaXflo AE qualifies as a product to help you meet LEED requirements
- High performance Green Product
- Full offering of standard and custom fittings
- Resistant to corrosion and degradation
- Ideally suited for Green Projects

## APPLICATIONS

Storm Sewer

Highway Drainage

Parking Lot Drainage

Storm Water Detention/Retention Systems

Industrial Applications

Ditch Enclosures

Commercial Applications

**Timewell offers soil tight and watertight options for fitting connections.**
See page 20 for details.

# TIMEWELL AFFILIATIONS

Timewell Drainage Products is a member of the Corrugated Plastic Pipe Association (CPPA), which is a division of the Plastic Pipe Institute (PPI). As an active member, Timewell participates in the development and promotion of industry standards as well as quality research programs which improve corrugated pipe and accessory products. Membership in the CPPA is a testimony to Timewell's commitment to product quality and industry leadership.

Timewell Drainage Products annually participates in the National Transportation Product Evaluation Program (NTPEP) audit and has continually received the Certificate of Compliance following the audit. Successful completion of the NTPEP Audit indicates that products made by Timewell comply with AASHTO M 252 and M 294 standards for High Density Polyethylene Pipe. Continually receiving NTPEP Certification is also an expression of Timewell's status as a front-runner in the drainage industry as well as a signifier of dedication to product quality.





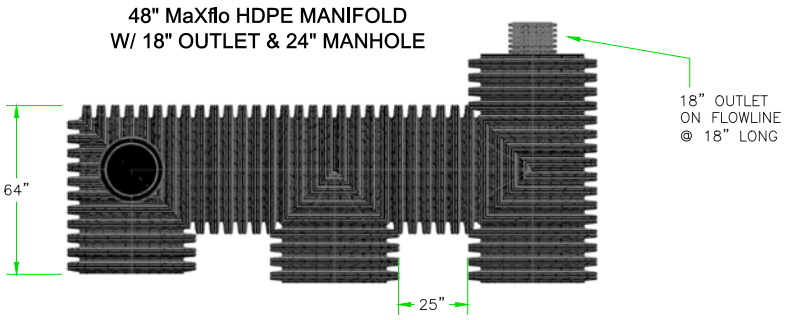
Timewell Drainage Products MaXflo HDPE pipe and supplies are currently approved for use on Department of Transportation projects in each of the following states: Alabama, Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, South Dakota, Tennessee, West Virginia and Wisconsin.

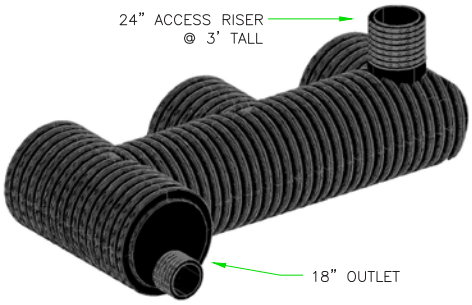
Timewell's ongoing work with the National Transportation Product Evaluation Program is a conduit for approval in most states. If yours is not currently listed, our NTPEP certification and ongoing internal approval efforts are adding new states on a regular basis.

Timewell is an accepted vendor for major metropolitan sewer districts such as Kansas City, MO, Nashville, TN and Louisville, KY. We are constantly improving and promoting HDPE pipe and working closely with leading communities.

## TYPICAL RETENTION/DETENTION COMPONENTS

| Size | Unit |
|---|---|
| 24" Access Riser | ea. |
| 6" Manifold Clean-out | ea. |
| 8" Manifold Clean-out | ea. |
| 12" Inlet/Outlet Stub | ea. |
| 15" Inlet/Outlet Stub | ea. |
| 18" Inlet/Outlet Stub | ea. |
| 24" Inlet/Outlet Stub | ea. |

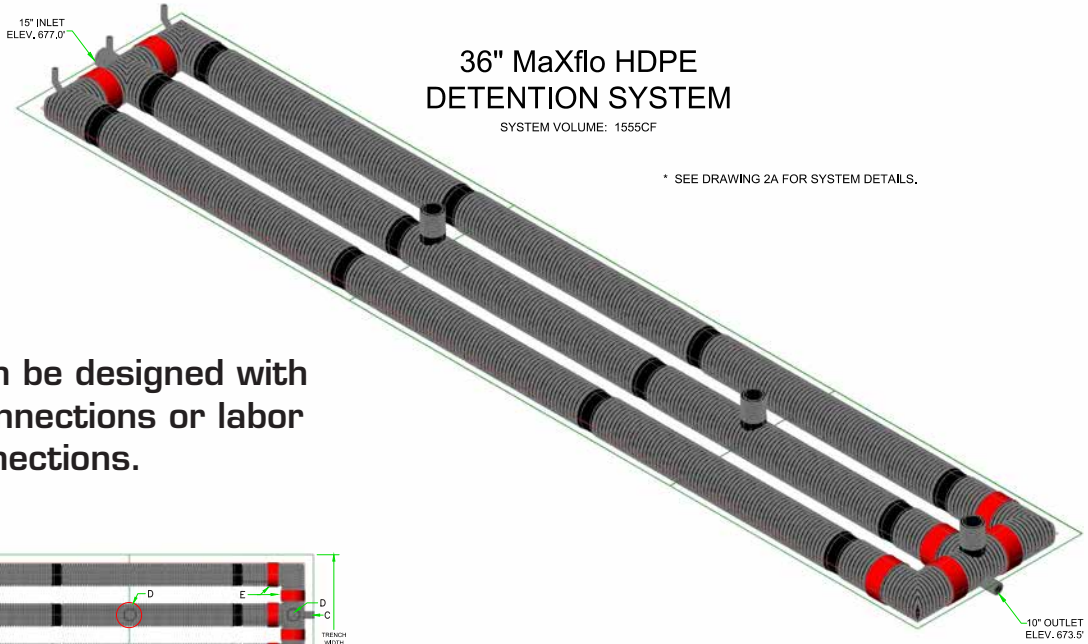


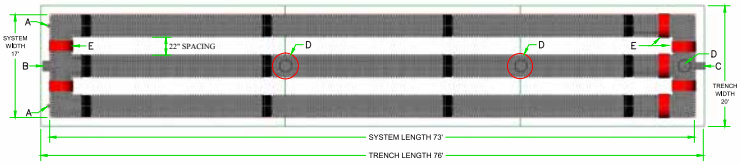

**Other specialty and custom designed components available along with design assistance.**

Timewell's Auto CAD design team can work with you to create the right plans for your project.

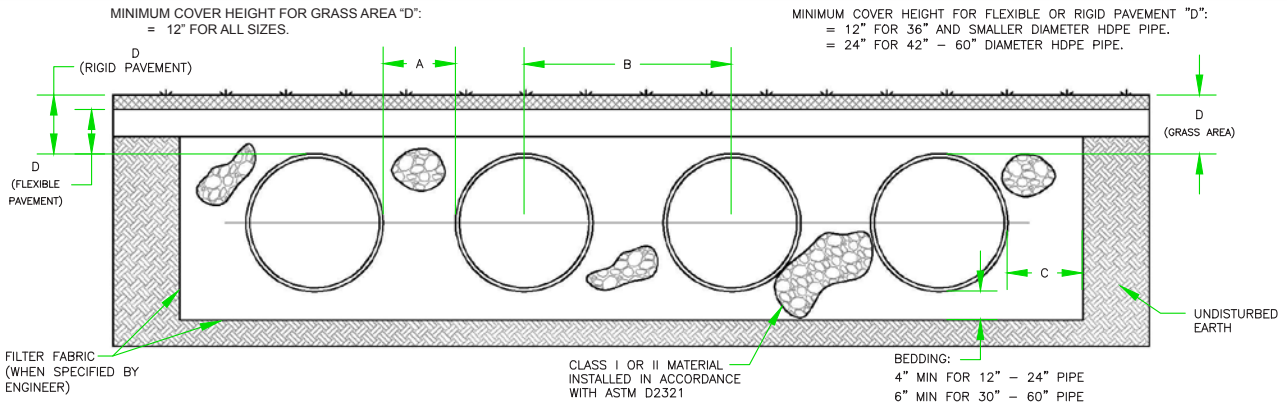
**Timewell can provide both standard and three dimensional drawings for you and your clients.**




**Timewell's systems can be designed with standard, plain end connections or labor saving bell/spigot connections.**



# TYPICAL RETENTION/DETENTION CROSS SECTION




*PLEASE CONTACT A REPRESENTATIVE FOR INSTALLATION CONSIDERATIONS WHEN FILL HEIGHTS EXCEED THE MAXIMUM 8' OF COVER OVER FITTINGS.

## STORAGE CAPACITIES OF MAXFLO

| Nominal Inside Diameter | Average Outside Diameter | "A" Spacing[A] | "B" Spacing[A] | "C" Spacing | Pipe Volume[B] | Stone Void Volume[C] | Total Retention Storage | Retention Surface Area Required | Detention Surface Area Required |
|---|---|---|---|---|---|---|---|---|---|
| in. (mm) | in. (mm) | in. (mm) | in. (mm) | in. (mm) | $ft^3/ft$ ($m/m$) | $ft^3/ft$ ($m^3/m$) | $ft^3/ft$ ($m^3/m$) | $ft^2/ft^3$ ($m^2/m^3$) | $ft^2/ft^3$ ($m^2/m^3$) |
| 12 (300) | 14.5 (368) | 11 (280) | 25.5 (650) | 8 (210) | 0.81 (0.07) | 0.84 (0.08) | 1.65 (0.15) | 1.3 (4.2) | 2.7 (8.6) |
| 15 (375) | 18 (457) | 10.5 (270) | 28.5 (730) | 8 (210) | 1.2 (0.11) | 1.1 (0.10) | 2.3 (0.21) | 1.1 (3.5) | 1.97 (6.4) |
| 18 (450) | 21 (533) | 12.5 (320) | 34 (870) | 9 (230) | 1.8 (0.16) | 1.4 (0.13) | 3.2 (0.29) | 0.93 (3.0) | 1.6 (5.4) |
| 24 (600) | 28 (711) | 13 (340) | 41 (1050) | 10 (260) | 3.1 (0.29) | 2.0 (0.18) | 5.1 (0.47) | 0.68 (2.2) | 1.1 (3.6) |
| 30 (750) | 36 (914) | 18 (460) | 54.5 (1390) | 18 (460) | 4.9 (0.46) | 3.1 (0.28) | 8.0 (0.74) | 0.55 (1.8) | 0.90 (3.0) |
| 36 (900) | 42 (1067) | 20 (510) | 61.5 (1570) | 18 (460) | 7.1 (0.66) | 4.2 (0.39) | 11.3 (1.05) | 0.47 (1.5) | 0.74 (2.4) |
| 42 (1050) | 48 (1219) | 24 (610) | 72 (1830) | 18 (460) | 9.2 (0.87) | 5.8 (0.53) | 15.0 (1.40) | 0.40 (1.3) | 0.65 (2.1) |
| 48 (1200) | 54 (1372) | 24 (610) | 72 (1830) | 18 (460) | 12.4 (1.15) | 6.7 (0.62) | 19.1 (1.77) | 0.34 (1.1) | 0.53 (1.7) |
| 60 (1500) | 67 (1702) | 24 (610) | 90 (2290) | 18 (460) | 19.3 (1.79) | 8.5 (0.78) | 27.8 (2.57) | 0.27 (0.89) | 0.39 (1.3) |

Typical cross section used in volume calculations. Bedding depth assumed 4" for 12"-24" pipe and 6" for 30"-60" pipe.
Stone Porosity assumed 40%.
Stone height above pipe crown not included in void volume calculations.
Calculation is based on the average outside diameter of the pipe.

**For Perforated Systems Follow Engineers Recommendation for Aggregate Size.**

# AN OVERVIEW OF HDPE PIPE INSTALLATION

*The following is a summarized explanation of the recommended steps taken to install a quality pipe system. Please use for informational purposes only.*

**Timewell's recommended installation procedures listed below are based on ASTM D2321**
(Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications).

## PRE-INSTALLATION STORAGE

Certain steps should be taken for handling and storing pipe properly on job sites. If pipe arrives at a site in pallets, it should remain in pallets until installation. Dragging, dropping, or hitting pipe on the ground or other objects may cause damage. Inspect all pipe and material before installation.

When stacking non-palletized pipe, some form of stop blocks should be used when starting bottom layer to avoid collapse. Pipe stockpiles on jobsites should not exceed 5 feet in height, and should not be walked or climbed upon. The recommended way to stack pipe with attached bells is to alternate the direction of the bell ends in each row of the stack.

| Nominal Pipe Diameter in. (mm) | Minimum Trench in. (m) | Nominal Pipe Diameter in. (mm) | Minimum Trench in. (m) |
|---|---|---|---|
| 4" (100) | 21" (0.5) | 18" (450) | 39" (1.0) |
| 6" (150) | 23" (0.6) | 24" (600) | 47" (1.2) |
| 8" (200) | 26" (0.7) | 30" (750) | 57" (1.4) |
| 10" (250) | 28" (0.7) | 36" (900) | 64" (1.6) |
| 12" (300) | 31" (0.8) | 42" (1050) | 72" (1.8) |
| 15" (375) | 34" (0.9) | 48" (1500) | 80" (2.0) |

Chart 1 - Minimum Trench Widths

## TRENCH EXCAVATION

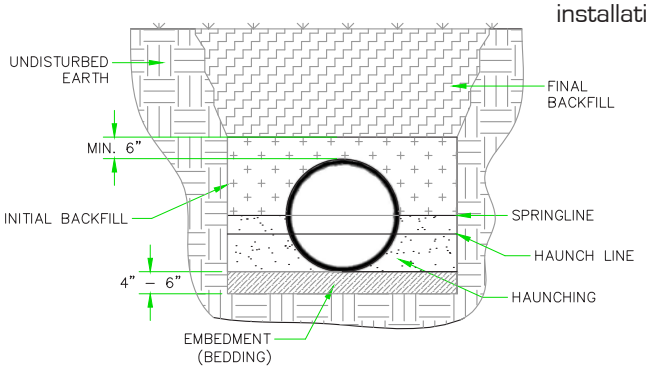
Field surveys are taken to establish the alignment of the system for pipe installation. Proper alignment and grade of pipe is important to assure system will function as designed.

Once the alignment of the system is established, the excavation of the trench can begin. The width of trench should be decided based on the width of pipe being installed. Trenches too narrow do not allow pipe to be installed correctly. Trenches too wide can add to overall cost. Trenches wide enough for proper installation should be used.

When compaction equipment is not needed, 6-8 inches on either side of pipe is the minimum space acceptable for trench width. (Please refer to Chart I for minimum trench widths)

The depth of the trench should allow for the proper cover to be added during the backfill process. If the floor of the trench is unsuitable, then, additional excavation may be needed as recommended by engineer. If excavation exceeds desired trench depth, additional backfill may be added to the bedding of the trench.

FIG. 1
Trench Cross Section
Showing Terminology




## ENVELOPE CONSTRUCTION

In a compacted envelope, the load is distributed to the initial backflow, haunching material, bedding and foundation. Once the trench has been excavated, the construction of the envelope begins. Once in place, the envelope is covered by the final backfill. When native soil is not an acceptable material for backfill, additional material will need to be brought in.

## BACKFILL PLACEMENT & MINIMUM COVER

Before placing any backfill, the floor of the trench must be made suitable for proper installation. Pipe should have a firm bedding no less than 4 inches deep, up to 6 inches in cases where rock or other coarse material is present. Uniform placement and compaction of bedding allows for equal load distribution of pipe and protruding features of pipe connections. Class I, II and III material should be used in the bedding zone.

Haunching is the next and most important layer of backfill that is put into place. The haunching should be worked in and compacted around the curvature of the bottom half of the pipe before the rest of backfill is placed.

The springline height is half of the OD of the pipe. Class I, II and III material should be used in the haunching zone that is the same, or very similar to, material used in the bedding zone. This helps to maintain side support of the envelope.

The initial backfill begins at the springline and extends to a minimum of 6 inches above the top of the pipe. Class I, II and III materials can be used in the initial backfill zone. If different classes of material are used within the envelope, a geotextile is required between layers. It is very important not to use compaction equipment directly over pipe while placing initial backfill.

The final backfill is not quite as crucial as the envelope around the pipe, but it is still important to keep a good level of compaction to prevent rutting at the top of trench. The final backfill extends from the initial backfill to the surface and should be a minimum of 6 inches deep. Recommended minimum height of cover for 4 – 48 inch diameter pipe is 12 inches in a typical trench installation. Height of cover in flexible pavement applications (asphalt) is measured from top of pipe to the bottom of flexible pavement. In a rigid pavement application (concrete), height of cover is measured from top of pipe to the top of the rigid pavement application. When hydrohammer type compactors are approved for use, a minimum of 48 inches of cover is recommended. If excessive construction loads are passing over pipe system, minimum cover may be increased. The excavated material from digging the trench may be used for the final backfill stage, unless otherwise required.

## POST-CONSTRUCTION INSPECTION

Deflection testing may be required by the engineer to ensure deflection limits are not exceeded. At least 30 days should be given to allow the system and soil to stabilize before deflection testing is performed.

## COMPACTION & COMPACTION EQUIPMENT

There are different methods of compaction used to achieve desired density. There is very little compaction required for crushed stone. For Class II and III backfill material, hand-held or walk behind compaction equipment is recommended. This equipment eliminates any damage to the pipe and will ensure proper compaction density.

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## OTHER CONSIDERATIONS

**Parallel Pipe Installation** – Special considerations and construction techniques are used when installing parallel pipe. Side support of the pipe must be maintained by allowing the proper amount of backfill to be compacted between parallel pipes. One foot of space should be used between pipe up to 24 inches in diameter. For pipe more than 24 inches, half of the diameter is recommended for proper spacing.

**Connecting Different Pipe Types** – When installing a new system, there may be a need to connect different types of pipe together. In these cases, a specific adaptor may be available to complete the connection. Another option is the use of a concrete collar. When using this method, a geotextile wrap is put around the joining ends to keep out foreign materials. Then, concrete is poured around the connection.

**Vertical Installation** – When installing access risers, meter pits, and catch basins, pipe is installed vertically. In any load situation, the frame and cover should be secured to a concrete collar around the vertical pipe. These concrete collars transfer load into the soil to keep stress off of the pipe.

**Joints** – The assembly and lubrication of joints should comply with Timewell's recommendations.

# SINGLE WALL CORRUGATED HDPE PIPE & FITTINGS

Timewell high density polyethylene corrugated pipe is designed for a variety of uses.

## USES

- Agricultural Drainage
- Highway Underdrains
- Soil Stabilization
- Retaining Wall Stabilization
- Conduit
- Waste Management
- Residential/Commercial Construction
- Sports Field Drainage

Pipe shall comply with the test methods, dimensions and markings found in ASTM F405, ASTM F667 and SCS 606.

AASHTO Grade shall comply with test methods, dimensions, and markings found in AASHTO M252 and AASHTO M294.

ASTM & AASHTO grade materials available per job specifications.

| Nominal Diameter | Inside Diameter (Average) | Outside Diameter (Average) | Minimum Pipe Stiffness at 5% Deflection | Weight (lbs./20ft.) |
|---|---|---|---|---|
| 3" | 3.10" | 3.60" | 35 psi | 4.60 lbs |
| 4" | 4.05" | 4.60" | 35 psi | 6.85 lbs |
| 5" | 5.00" | 5.90" | 35 psi | 10.15 lbs |
| 6" | 6.05" | 6.90" | 35 psi | 15.40 lbs |
| 8" | 8.15" | 9.50" | 35 psi | 27.40 lbs |
| 10" | 10.05" | 11.60" | 35 psi | 40.75 lbs |
| 12" | 12.05" | 14.20" | 35 psi | 50.70 lbs |
| 15" | 14.95" | 17.70" | 35 psi | 66.10 lbs |

## AVAILABLE CONFIGURATIONS

| Size | Stick Length | Small Coils | Maxi |
|---|---|---|---|
| 3" | 10' | 100' | 5600', 6200' |
| 4" | 10' | 100', 250' | 3250' |
| 5" | | 165' | 2300' |
| 6" | | 100' | 1320', 1685' |
| 8" | 20' | 405' | 920' |
| 10" | 20' | | 625' |
| 12" | 20' | | 370' |
| 15" | 20' | | 220' |

TIMEWELL DRAINAGE PRODUCTS

## PERFORATED SINGLE WALL

| Size | Part Number | |
|---|---|---|
| 3" x 10' | 29003-10P | Stick |
| 3" x 100' | 28003-100P | Small Coil |
| 3" x 5,600' | 18003-3X5600B | Maxi |
| 3" x 6,200' | 18003-3X6200B | Maxi |
| 4" x 10' | 29004-10P | Stick |
| 4" x 100' | 28004-100P | Small Coil |
| 4" x 250' | 28004-250P | Small Coil |
| 4" x 3,250' | 18004-4X3250B | Maxi |
| 5" x 165' | 28005-165P | Small Coil |
| 5" x 2,300' | 18005-5X2300B | Maxi |
| 6" x 100' | 28006-100P | Small Coil |
| 6" x 1,320' | 18006-6X1320B | Maxi |
| 6" x 1,685' | 18006-6X1685B | Maxi |
| 8" x 20' | 29008-20P | Stick |
| 8" x 405' | 28008-405P | Small Coil |
| 8" x 920' | 18008-8X920B | Maxi |
| 10" x 20' | 29010-20P | Stick |
| 10" x 625' | 18010-10X625B | Maxi |
| 12" x 20' | 29010-20P | Stick |
| 12" x 370' | 18012-12X370B | Maxi |
| 15" x 20' | 29015-20P | Stick |
| 15" x 220' | 18015-15X220B | Maxi |
| 18" x 20' | 29018-20P | Stick |

## SOLID SINGLE WALL

| Size | Part Number | |
|---|---|---|
| 3" x 10' | 29003-10S | Stick |
| 3" x 100' | 28003-100S | Small Coil |
| 3" x 5,600' | 19003-3X5600B | Maxi |
| 3" x 6,200' | 19003-3X6200B | Maxi |
| 4" x 10' | 29004-10S | Stick |
| 4" x 100' | 28004-100S | Small Coil |
| 4" x 250' | 28004-250S | Small Coil |
| 4" x 3,250' | 19004-4X3250B | Maxi |
| 5" x 165' | 28005-165S | Small Coil |
| 5" x 2,300' | 19005-5X2300B | Maxi |
| 6" x 100' | 28006-100S | Small Coil |
| 6" x 1,320' | 19006-6X1320B | Maxi |
| 8" x 20' | 29008-20S | Stick |
| 8" x 405' | 28008-405S | Maxi |
| 8" x 920' | 19008-8X920B | Maxi |
| 10" x 20' | 29010-20S | Stick |
| 10" x 625' | 19010-10X625B | Maxi |
| 12" x 20' | 29012-20S | Stick |
| 12" x 370' | 19012-12X370B | Maxi |
| 15" x 20' | 29015-20S | Stick |
| 15" x 220' | 19015-15X220B | Maxi |
| 18" x 20' | 29018-20S | Stick |

## KNIFECUT/NARROW SLOT SINGLE WALL

| Size | Part Number | |
|---|---|---|
| 3" x 100' | 28003-100K | Small Coil |
| 3" x 5,600' | 17003-3X5600B | Maxi |
| 3" x 6,200' | 17003-3X6200B | Maxi |
| 4" x 100' | 28004-100K | Small Coil |
| 4" x 250' | 28004-250K | Small Coil |
| 4" x 3,250' | 17004-4X3250B | Maxi |
| 5" x 165' | S28005-165K | Small Coil |
| 5" x 2,300' | 17005-5X2300B | Maxi |
| 6" x 100' | 28006-100K | Small Coil |
| 6" x 1,320' | 17006-6X1320B | Maxi |
| 6" x 1,685' | 17006-6X1685B | Maxi |
| 8" x 20' | 29008-20K | Stick |
| 8" x 405' | 28008-405K | Small Coil |
| 8" x 920' | 17008-8X920B | Maxi |
| 10" x 20' | 29010-20K | Stick |
| 10" x 625' | 17010-10X625B | Maxi |
| 12" x 20' | 29012-20K | Stick |
| 12" x 370' | 17012-12X370B | Maxi |
| 15" x 20' | 29015-20K | Stick |
| 15" x 220' | 17015-15X220B | Maxi |

## PERFORATED SINGLE WALL WITH SOCK

| Size | Part Number | |
|---|---|---|
| 3" x 100' | 28003-100SCK | Small Coil |
| 3" x 5,600' | 18003-3X5600BSK | Maxi |
| 3" x 6,200' | 18003-3X6200BSK | Maxi |
| 4" x 100' | 28004-100SCK | Small Coil |
| 4" x 250' | 28004-250SCK | Small Coil |
| 4" x 3,250' | 18004-4X3250BSK | Maxi |
| 5" x 165' | 28005-165SCK | Small Coil |
| 5" x 2300' | 18005-5X2300BSK | Maxi |
| 6" x 100' | S28006-100SCK | Small Coil |
| 6" x 1,320' | 18006-6X1320BSK | Maxi |
| 6" x 1,685' | 18006-6X1685BSK | Maxi |
| 8" x 405' | 28008-405SCK | Small Coil |
| 8" x 920' | 18008-8X920BSK | Maxi |
| 10" x 20' | 29010-20SCK | Stick |
| 10" x 625' | 18010-10X625BSK | Maxi |
| 12" x 20' | 29012-20SCK | Stick |
| 12" x 370' | 18012-12X370BSK | Maxi |
| 15" x 20' | 29015-20SCK | Stick |
| 15" x 220' | 18015-15X220BSK | Maxi |

## SEWER PIPE

| Size | Part Number | |
|---|---|---|
| 4" x 10' Sewer Stick | 15004-10SWR | Stick |
| 4" x 100' Sewer Tubing | 15004-100SWR | Small Coil |

# STORM WATER CHAMBERS

Timewell offers a complete line of storm water chambers for your underground storm water control and storage. Storm water chambers provide a cost-effective solution for underground detention and infiltration.

The chambers we provide are designed to withstand AASHTO HS-25 defined loads when installed according to our recommended installation instructions. With chamber heights from 8.5" to 48" tall, these chambers are capable of accommodating both extreme low-profile limitations as well as high-volume demands. The unique internal manifold feature allows for maximum design flexibility, provides a significant cost-savings to the overall project, and, in most applications, can also reduce the system footprint.

## Chamber System Features

- Overlapping rib connection
- Unique in-line internal manifold
- High infiltrative capability
- Lightweight
- Variety of sizes
- Chemically resistant

## System Benefits

- Maximum use of land area
- Ability to recharge water on-site
- Single or multi-level systems
- Less heavy equipment required
- The units nest on pallets for convenient shipping and stockpiling of material
- Allows for greater infiltration into the ground
- Permits further development
- Reduces insurance liabilities and potential breeding grounds for infectious mosquitoes associated with open ponds
- Free design assistance available

CULTEC

# CONTACTOR® & RECHARGER CHAMBERS SPECIFICATION INFORMATION

| MODEL | Length | Width | Height | Installed Length | Chamber Storage | | Compatible Internal Manifold Component |
|---|---|---|---|---|---|---|---|
| Contactor® Field Drain C-4HD | 8.5' 2.59 m | 18" 1219 mm | 8.5" 216 mm | 8' 2.44 m | 1.69 $ft^3$/ft 13.54 $ft^3$/unit 101 gal | 0.16 $m^3$/m 0.38 $m^3$/unit 383.28 L | N/A |
| Contactor® 100HD | 8' 2.44 m | 36" 914 mm | 12.5" 318 mm | 7.5' 2.29 m | 1.87 $ft^3$/ft 14.00 $ft^3$/unit 105 gal | 0.17 $m^3$/m 0.40 $m^3$/unit 396.88 L | HVLV SFCx2 Feed Connector |
| Recharger® 150XLHD | 11' 3.35 m | 33" 838 mm | 18.5" 470 mm | 10.25' 3.12 m | 2.650 $ft^3$/ft 27.16 $ft^3$/unit 203 gal | 0.25 $m^3$/m 0.77 $m^3$/unit 769.12 L | HVLV FC-24 Feed Connector |
| Recharger® 180HD | 7.33' 2.23 m | 36" 914 mm | 20.5" 521 mm | 6.33' 1.93 m | 3.45 $ft^3$/ft 21.81 $ft^3$/unit 163 gal | 0.32 $m^3$/m 0.62 $m^3$/unit 617.47 L | HVLV FC-24 Feed Connector |
| Recharger® 280HD | 8' 2.44 m | 47" 1194 mm | 26.5" 673 mm | 7' 2.13 m | 6.079 $ft^3$/ft 42.55 $ft^3$/unit 318 gal | 0.56 $m^3$/m 1.21 $m^3$/unit 1204.91 L | HVLV FC-24 Feed Connector |
| Recharger® 330XLHD | 8.5' 2.59 m | 52" 1321 mm | 30.5" 775 mm | 7' 2.13 m | 7.459 $ft^3$/ft 52.21 $ft^3$/unit 391 gal | 0.69 $m^3$/m 1.48 $m^3$/unit 1478.44 L | HVLV FC-24 Feed Connector |
| Recharger® 360HD | 4.17' 1.27 m | 60" 1525 mm | 36" 914 mm | 3.67' 1.12 m | 10.00 $ft^3$/ft 36.66 $ft^3$/unit 274 gal | 0.93 $m^3$/m 1.04 $m^3$/unit 1038.03 L | HVLV FC-48 Feed Connector |
| Recharger® 902HD | 4.1' 1.25 m | 78" 1981 mm | 48" 1219 mm | 3.67' 1.12 m | 17.66 $ft^3$/ft 64.75 $ft^3$/unit 484 gal | 1.64 $m^3$/m 1.84 $m^3$/unit 1833.53 L | HVLV FC-48 Feed Connector |

NOTES:

- Based on installed length. Stone void is calculated at 40%, 1-2" clean washed stone. Most models include 6 inch (152 mm) stone base, 6 inch (152 mm) stone layer above chamber crown and stone around units based on typical minimum center-to-center spacing.
- Recharger 902HD assumes 9 inch (229 mm) stone base, 12 inch (305 mm) stone layer above and typical center-to-center spacing.
- Recharger models 360HD and 902HD chambers require a separate end cap.

Provided by CULTEC

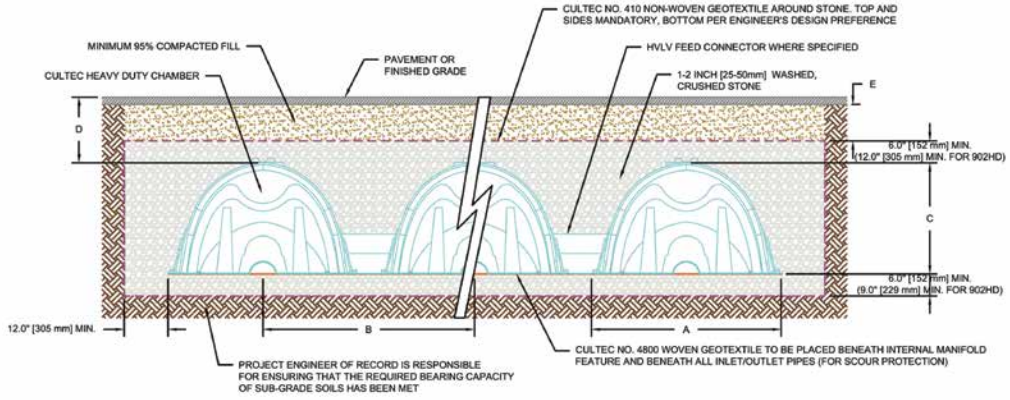
# STORM WATER CHAMBERS

## USES

- Detention Systems
- Detention/Infiltration Systems
- Infiltration Systems

**Water Quality Treatments Available**

Options to fit all systems and job specifications




| MODEL | A Chamber Width | B Typical Center-to-Center Spacing | C Chamber Height | D Min. Depth (Paved) | D Max. Depth | E Min. Depth (Paved) |
|---|---|---|---|---|---|---|
| Contactor® 100HD | 36" 914 mm | 40" 1016 mm | 12.5" 318 mm | 14" 356 mm | 12' 3.66 m | 8" 203 mm |
| Recharger® 150XLHD | 33" 838 mm | 39" 991 mm | 18.5" 470 mm | 14" 356 mm | 12' 3.66 m | 8" 203 mm |
| Recharger® 180HD | 36" 914 mm | 39" 991 mm | 20.5" 521 mm | 14" 356 mm | 12' 3.66 m | 8" 203 mm |
| Recharger® 280HD | 47" 1194 mm | 52" 1321 mm | 26.5" 673 mm | 14" 356 mm | 12' 3.66 m | 8" 203 mm |
| Recharger® 330XLHD | 52" 1321 mm | 58" 1473 mm | 30.5" 775 mm | 16" 406 mm | 12' 3.66 m | 10" 254 mm |
| Recharger® 360HD | 60" 1525 mm | 69" 1753 mm | 36" 914 mm | 18" 457 mm | 12' 3.66 m | 12" 305 mm |
| Recharger® 902HD | 78" 1981 mm | 87" 2210 mm | 48" 1219 mm | 24" 610 mm | 8.3' 2.53 m | 12" 305 mm |

CULTEC

# PVC DRAIN BASINS

- Durable PVC construction design allows for paramount strength and functionality
- Completely custom made per customer's specification of diameter, height, inlet/outlet location, and grate type
- Minimal field adjustment
- No degradation or corrosion
- Gaskets included

## APPLICATIONS

- Roads and Highways
- Government
- Commercial
- Educational Facilities
- Golf Courses
- Parks and Recreational Facilities

## REASONS FOR USE

- Change in Type of Pipe
- Change in Flow Line Elevation
- Change in Direction
- Change in Pipe Diameter
- Storm Water Inlet

| AVAILABLE BASIN DIMENSIONS | | |
|---|---|---|
| Basin Diameter | Outlet Size Available | Minimum Sump |
| 8" | 4-8" | 4" |
| 10" | 4-10" | 6" |
| 12" | 4-12" | 6" |
| 15" | 4-15" | 6" |
| 18" | 4-18" | 6" |
| 24" | 4-24" | 8" |
| 30" | 4-30" | 10" |
| 36" | 4-30" | 14" |

Inlet/Outlets can be at any angle 0-359° per verification of minimum angle.

**NOTE: Basins are ordered in the following height categories: 12" – 60" and 60" – 120"**

Provided by HARCO

## CATCH BASINS AND INLINE DRAINS

### PVC DRAIN BASIN WITH ROUND GRATE

| | 12" - 60" Height | 61" - 120" Height |
|---|---|---|
| 8" | 05H08-DBU5 | 05H08-DBO5 |
| 10" | 05H10-DBU5 | 05H10-DBO5 |
| 12" | 05H12-DBU5 | 05H12-DBO5 |
| 15" | 05H15-DBU5 | 05H15-DBO5 |
| 18" | 05H18-DBU5 | 05H18-DBO5 |
| 24" | 05H24-DBU5 | 05H24-DBO5 |
| 30" | 05H30-DBU5 | 05H30-DBO5 |
| 36" | 05H36-DBU5 | 05H36-DBO5 |

### PVC DRAIN BASIN WITH SQUARE TRAFFIC GRATE (2'x2' Grate)

| | 12" - 60" Height | 61" - 120" Height |
|---|---|---|
| 12" | 05H12-STGU522 | 05H12-STGO522 |
| 15" | 05H15-STGU522 | 05H15-STGO522 |
| 18" | 05H18-STGU522 | 05H18-STGO522 |
| 24" | 05H24-STGU522 | 05H24-STGO522 |
| 30" | 05H30-STGU522 | 05H30-STGO522 |

### PVC DRAIN BASIN WITH SQUARE TRAFFIC GRATE (2'x3' Grate)

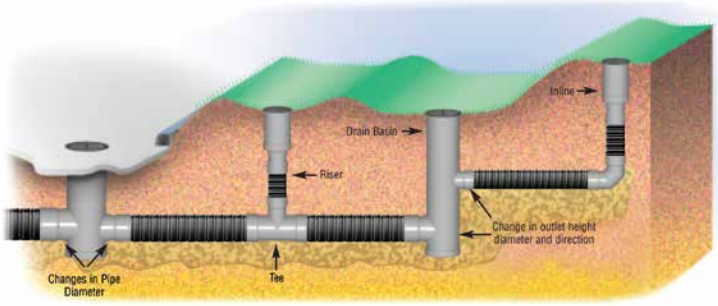
| | 12" - 60" Height | 61" - 120" Height |
|---|---|---|
| 18" | 05H18-STGU523 | 05H18-STGO523 |
| 24" | 05H24-STGU523 | 05H24-STGO523 |
| 30" | 05H30-STGU523 | 05H30-STGO523 |

### PVC DRAIN BASIN WITH CURB INLET GRATE (2'x2' Grate)

| | 12" - 60" Height | 61" - 120" Height |
|---|---|---|
| 12" | 05H12-CIU522 | 05H12-CIO522 |
| 15" | 05H15-CIU522 | 05H15-CIO522 |
| 18" | 05H18-CIU522 | 05H18-CIO522 |
| 24" | 05H24-CIU522 | 05H24-CIO522 |
| 30" | 05H30-CIU522 | 05H30-CIO522 |

### PVC DRAIN BASIN WITH CURB INLET GRATE (2'x3' Grate)

| | 12" - 60" Height | 61" - 120" Height |
|---|---|---|
| 18" | 05H18-CIU523 | 05H18-CIO523 |
| 24" | 05H24-CIU523 | 05H24-CIO523 |
| 30" | 05H30-CIU523 | 05H30-CIO523 |




### INLINE DRAINS ROUND DROP IN GRATE (only)

| Size | Part Number |
|---|---|
| 8" | 05H08-ID |
| 10" | 05H10-ID |
| 12" | 05H12-ID |
| 15" | 05H15-ID |
| 18" | 05H18-ID |
| 24" | 05H24-ID |
| 30" | 05H30-ID |
| 36" | 05H36-ID |

### STEEL GRATES

| Size | Part Number |
|---|---|
| 4" | 13D04-SG |
| 6" | 13D06-SG |
| 8" | 13D08-SG |
| 10" | 13D10-SG |
| 12" | 13D12-SG |
| 15" | 13D15-SG |
| 18" | 13D18-SG |
| 24" | 13D24-SG |

### INLET FILTERS FOR STORM DRAINAGE STRUCTURES

Drop In Round Frame & Filter
Drop In Rectangular Frame & Filter
**Call for Detailed Information**

Inlet Filters Available

Provided by HARCO

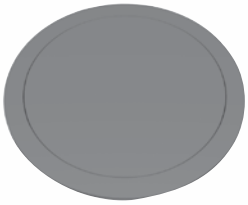
TIMEWELL DRAINAGE PRODUCTS

## DRAINAGE STRUCTURE GRATES

Drop–In Pedestrian

Round Standard

Round Pedestrian



Round Solid

Round Grates with Frames:
8"&10" = 1 piece
12"-36" = 2 piece

Drop-In Domed (One-Piece)

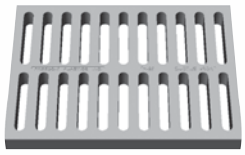
### DRAIN BASIN GRATES

| Type | | Available Diameter |
|---|---|---|
| Drop-In Light Duty | | 6" – 30" |
| Drop–In Domed | | 8" – 10" |
| Square Hinged Standard | H - 25 | 12" – 15" |
| Square Hinged Pedestrian | H - 10 | 12" – 15" |
| Square Hinged Solid | H - 25 | 12" – 15" |
| Round Cover and Frame | H - 25 | 12" – 36" |
| Round Standard with Frame | H - 25 | 12" – 36" |
| Round Pedestrian with Frame | H - 10 | 12" – 30" |
| 2' x 2' Square Traffic Grate | H - 25 | 12" – 30" |
| 2' x 3' Rectangle Traffic Grate | H - 25 | 18" – 30" |
| 2' x 2' Square Curb Inlet Grate | H - 25 | 12" – 30" |
| 2' x 3' Rectangle Curb Inlet Grate | H - 25 | 18" – 30" |

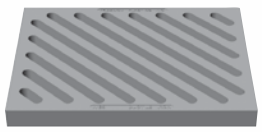
Square Hinged Standard

Square Hinged Pedestrian

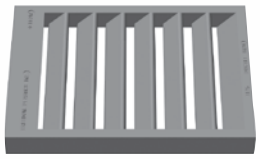
Square Hinged Solid



2' x 2' Square Curb Inlet Grate



2' x 2' Square Curb Inlet Grate



2' x 3' Rectangle Curb Inlet Grate

## PVC INLINE DRAINS

- Fabricated from PVC pipe stock conforming to ASTM D1784
- Abrasion and Corrosion Resistant
- Custom Built – Just specify body diameter, outlet diameter, and grate
- Sizes available from 8"–36"
- Storm Water Inlet – easy installation on a new or existing drain line
- Easily connects to numerous pipe materials!

Provided by HARCO

# MAXFLO FITTING CONNECTION OPTIONS

## SOIL TIGHT EXTERNAL SPLIT COUPLERS

| Size | Unit | Part Number |
|---|---|---|
| 2” | 50 | 11002-SP |
| 3” | 50 | 11003-SP |
| 4” | 50 | 11004-SP |
| 5” | 50 | 11005-SP |
| 6” | 50 | 11006-SP |
| 8” | 30 | 11008-SP |
| 10” | 30 | 11010-SP |
| 12” | ea. | 11012-SP |
| 15” | ea. | 11015-SP |
| 18” | ea. | 11018-SP |
| 24” | ea. | 11024-SP |
| 30” | ea. | 11030-SP |
| 36” | ea. | 11036-SP |
| 42” | ea. | 11042-SP |
| 48” | ea. | 11048-SP |

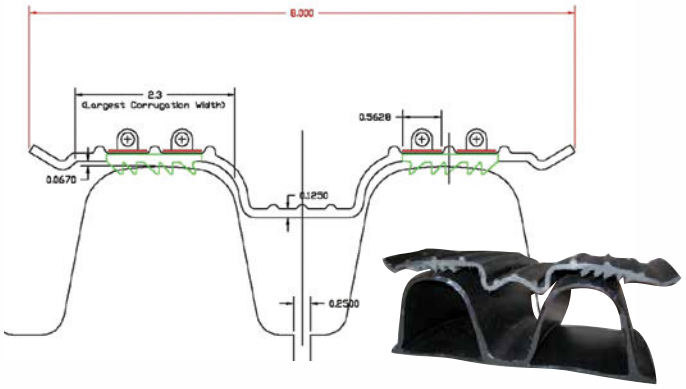
## SOIL TIGHT EXTERNAL SNAP COUPLERS

| Size | Unit | Part Number |
|---|---|---|
| 4” | 50 | 11004-SN |
| 6” | 20 | 11006-SN |
| 8” | 5 | 11008-SN |
| 10” | 5 | 11010-SN |

## MAR MAC COUPLERS

| Size | Unit | Part Number |
|---|---|---|
| 4” | ea. | 11004-MRC |
| 6” | ea. | 11006-MRC |
| 8” | ea. | 11008-MRC |
| 10” | ea. | 11010-MRC |
| 12” | ea. | 11012-MRC |
| 15” | ea. | 11015-MRC |
| 18” | ea. | 11018-MRC |
| 24” | ea. | 11024-MRC |
| 30” | ea. | 11030-MRC |
| 36” | ea. | 11036-MRC |
| 42” | ea. | 11042-MRC |
| 48” | ea. | 11048-MRC |
| 60” | ea. | 11060-MRC |

*Seal Tight for D3212 Watertight Connections*




## WATERTIGHT SEAL TITE COUPLERS

| Size | Part Number |
|---|---|
| 10” | 11010-ST |
| 10” | 11010-STWT |
| 12” | 11012-ST |
| 12” | 11012-STWT |
| 15” | 11015-ST |
| 15” | 11015-STWT |
| 18” | 11018-ST |
| 18” | 11018-STWT |
| 24” | 11024-ST |
| 24” | 11024-STWT |
| 30” | 11030-ST |
| 30” | 11030-STWT |
| 36” | 11036-ST |
| 36” | 11036-STWT |
| 42” | 11042-ST |
| 42” | 11042-STWT |
| 48” | 11048-ST |
| 48” | 11048-STWT |
| 60” | 11060-ST |
| 60” | 11060-STWT |

Available with or without Stainless Steel tightening bands.

## WATERTIGHT INJECTION MOLDED BELLS

| Size | Unit |
|---|---|
| 6” | ea. |
| 8” | ea. |
| 10” | ea. |
| 12” | ea. |
| 15” | ea. |
| 18” | ea. |

Valley Gaskets for in field cuts included with each fitting with injection molded bells.

# MAXFLO PLAIN END FITTINGS

## MAXFLO 22.5 DEGREE ELBOWS

| Size | Part Number |
|---|---|
| 4” | 09004-225 |
| 6” | 09006-225 |
| 8” | 09008-225 |
| 10” | 09010-225 |
| 12” | 09012-225 |
| 15” | 09015-225 |
| 18” | 09018-225 |
| 24” | 09024-225 |
| 30” | 09030-225 |
| 36” | 09036-225 |
| 42” | 09042-225 |
| 48” | 09048-225 |
| 60” | 09060-225 |

## MAXFLO 45 DEGREE ELBOWS

| Size | Part Number |
|---|---|
| 4” | 09004-45 |
| 6” | 09006-45 |
| 8” | 09008-45 |
| 10” | 09010-45 |
| 12” | 09012-45 |
| 15” | 09015-45 |
| 18” | 09018-45 |
| 24” | 09024-45 |
| 30” | 09030-45 |
| 36” | 09036-45 |
| 42” | 09042-45 |
| 48” | 09048-45 |
| 60” | 09060-45 |

## MAXFLO 90 DEGREE ELBOWS

| Size | Part Number |
|---|---|
| 4” | 09004-90 |
| 6” | 09006-90 |
| 8” | 09008-90 |
| 10” | 09010-90 |
| 12” | 09012-90 |
| 15” | 09015-90 |
| 18” | 09018-90 |
| 24” | 09024-90 |
| 30” | 09030-90 |
| 36” | 09036-90 |
| 42” | 09042-90 |
| 48” | 09048-90 |
| 60” | 09060-90 |

## MAXFLO TEES

| Size | Part Number |
|---|---|
| 4” x 4” | 31004-T |
| 6” x 6” | 31006-T |
| 8” x 8” | 31008-T |
| 10” x 10” | 31010-T |
| 12” x 12” | 31012-T |
| 15” x 15” | 31015-T |
| 18” x 18” | 31018-T |
| 24” x 24” | 31024-T |
| 30” x 30” | 31030-T |
| 36” x 36” | 31036-T |
| 42” x 42” | 31042-T |
| 48” x 48” | 31048-T |
| 60” x 60” | 31060-T |

# MAXFLO PLAIN END FITTINGS

## MAXFLO REDUCING TEES

| Size | Part Number |
|---|---|
| 6” x 4” | 31006-4T |
| 8” x 4” | 31008-4T |
| 8” x 6” | 31008-6T |
| 10” x 4” | 31010-4T |
| 10” x 6” | 31010-6T |
| 12” x 4” | 31012-4T |
| 12” x 6” | 31012-6T |
| 12” x 8” | 31012-8T |
| 15” x 4” | 31015-4T |
| 15” x 6” | 31015-6T |
| 15” x 8” | 31015-8T |
| 15” x 10” | 31015-10T |
| 18” x 4” | 31018-4T |
| 18” x 6” | 31018-6T |
| 18” x 8” | 31018-8T |
| 18” x 10” | 31018-10T |
| 18” x 12” | 31018-12T |
| 24” x 4” | 31024-4T |
| 24” x 6” | 31024-6T |
| 24” x 8” | 31024-8T |
| 24” x 10” | 31024-10T |
| 24” x 12” | 31024-12T |
| 24” x 15” | 31024-15T |
| 30” x 4” | 31030-4T |
| 30” x 6” | 31030-6T |
| 30” x 8” | 31030-8T |
| 30” x 10” | 31030-10T |
| 30” x 12” | 31030-12T |
| 30” x 15” | 31030-15T |
| 30” x 18” | 31030-18T |
| 30” x 24” | 31030-24T |

## MAXFLO REDUCING TEES

| Size | Part Number |
|---|---|
| 36” x 4” | 31036-4T |
| 36” x 6” | 31036-6T |
| 36” x 8” | 31036-8T |
| 36” x 10” | 31036-10T |
| 36” x 12” | 31036-12T |
| 36” x 15” | 31036-15T |
| 36” x 18” | 31036-18T |
| 36” x 24” | 31036-24T |
| 36” x 30” | 31036-30T |
| 42” x 4” | 31042-4T |
| 42” x 6” | 31042-6T |
| 42” x 8” | 31042-8T |
| 42” x 10” | 31042-10T |
| 42” x 12” | 31042-12T |
| 42” x 15” | 31042-15T |
| 42” x 18” | 31042-18T |
| 42” x 24” | 31042-24T |
| 42” x 30” | 31042-30T |
| 42” x 36” | 31042-36T |
| 48” x 4” | 31048-4T |
| 48” x 6” | 31048-6T |
| 48” x 8” | 31048-8T |
| 48” x 10” | 31048-10T |
| 48” x 12” | 31048-12T |
| 48” x 15” | 31048-15T |
| 48” x 18” | 31048-18T |
| 48” x 24” | 31048-24T |
| 48” x 30” | 31048-30T |
| 48” x 36” | 31048-36T |
| 48” x 42” | 31048-42T |

**CENTER-LINE AND FLOW-LINE CONFIGURATIONS AVAILABLE**

**60” Fittings Available**

## MAXFLO REDUCERS

| Size/Part Number |
|---|
| 6" x 4" |
| 26006-4R |
| 8" x 6"/4" |
| 26008-6R/4R |
| 10" x 8"/6"/4" |
| 26010-8R/6R/4R |
| 12" x 10"/8"/6"/4" |
| 26012-10R/8R/6R/4R |
| 15" x 12"/10"/8"/6"/4" |
| 26015-12R/10R/8R/6R/4R |
| 18" x 15"/12"/10"/8"/6"/4" |
| 26018-15R/12R/10R/8R/6R/4R |
| 24" x 18"/15"/12"/10"/8"/6"/4" |
| 26024-18R/15R/12R/10R/8R/6R/4R |
| 30" x 24"/18"/15"/12" |
| 26030-24R/18R/15R/12R |
| 36" x 30"/24"/18"/15"/12" |
| 26036-30R/24R/18R/15R/12R |
| 42" x 36"/30"/24"/18"/15"/12" |
| 26042-36R30R/24R/18R/15R/12R |
| 48 x 42"/36"/30"/24"/18"/15"/12" |
| 26048-42R/36R/30R/24R/18R/15R/12R |

**60" Reducers Available**

## MAXFLO WYES

| Size | Part Number |
|---|---|
| 4" | 35004-Y |
| 6" | 35006-Y |
| 8" | 35008-Y |
| 10" | 35010-Y |
| 12" | 35012-Y |
| 15" | 35015-Y |
| 18" | 35018-Y |
| 24" | 35024-Y |

**24" and Larger Wyes are Available**

## MAXFLO REDUCING WYES

| Size | Part Number |
|---|---|
| 6" x 4" | 35006-4Y |
| 8" x 4" | 35008-4Y |
| 8" x 6" | 35008-6Y |
| 10" x 4" | 35010-4Y |
| 10" x 6" | 35010-6Y |
| 10" x 8" | 35010-8Y |
| 12" x 4" | 35012-4Y |
| 12" x 6" | 35012-6Y |
| 12" x 8" | 35012-8Y |
| 12" x 10" | 35012-10Y |
| 15" x 4" | 35015-4Y |
| 15" x 6" | 35015-6Y |
| 15" x 8" | 35015-8Y |
| 15" x 10" | 35015-10Y |
| 15" x 12" | 35015-12Y |
| 18" x 4" | 35018-4Y |
| 18" x 6" | 35018-6Y |
| 18" x 8" | 35018-8Y |
| 18" x 10" | 35018-10Y |
| 18" x 12" | 35018-12Y |
| 18" x 15" | 35018-15Y |

**24" and Larger Reducing Wyes are Available**

# MAXFLO SPECIALTY ACCESSORIES

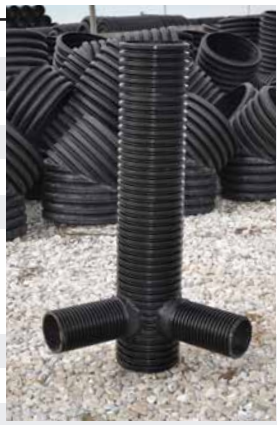
## SADDLE TEES

| Size | Part Number |
|---|---|
| 8" x 4" | 31008-4ST |
| 10" x 4" | 31010-4ST |
| 10" x 6" | 31010-6ST |
| 12" x 4" | 31012-4ST |
| 12" x 6" | 31012-6ST |
| 12" x 8" | 31012-8ST |
| 15" x 4" | 31015-4ST |
| 15" x 6" | 31015-6ST |
| 15" x 8" | 31015-8ST |
| 15" x 10" | 31015-10ST |
| 18" x 4" | 31018-4ST |
| 18" x 6" | 31018-6ST |
| 18" x 8" | 31018-8ST |
| 18" x 10" | 31018-10ST |
| 18" x 12" | 31018-12ST |
| 24" x 4" | 31024-4ST |
| 24" x 6" | 31024-6ST |
| 24" x 8" | 31024-8ST |
| 24" x 10" | 31024-10ST |
| 24" x 12" | 31024-12ST |
| 24" x 15" | 31024-15ST |
| 30" x 4" | 31030-4ST |
| 30" x 6" | 31030-6ST |
| 30" x 8" | 31030-8ST |
| 30" x 10" | 31030-10ST |
| 30" x 12" | 31030-12ST |
| 30" x 15" | 31030-15ST |
| 36" x 4" | 31036-4ST |
| 36" x 6" | 31036-6ST |
| 36" x 8" | 31036-8ST |
| 36" x 10" | 31036-10ST |
| 36" x 12" | 31036-12ST |
| 36" x 15" | 31036-15ST |
| 36" x 18" | 31036-18ST |

**TRASH RACKS AVAILABLE FOR HDPE AND METAL FLARED END SECTIONS**

## HDPE DRAIN BASINS

| Size | Part Number |
|---|---|
| 12" - 60" Height | |
| 8" | 05T08-U5 |
| 10" | 05T10-U5 |
| 12" | 05T12-U5 |
| 15" | 05T15-U5 |
| 18" | 05T18-U5 |
| 24" | 05T24-U5 |
| 61" - 120" Height | |
| 8" | 05T08-05 |
| 10" | 05T10-05 |
| 12" | 05T12-05 |
| 15" | 05T15-05 |
| 18" | 05T18-05 |
| 24" | 05T24-05 |



Drain Basins also available in sizes 30" - 48".

## HDPE FLARED END SECTIONS

| Size | Unit | Part Number |
|---|---|---|
| 12"-15" | ea. | 12012-15FES |
| 18" | ea. | 12018-FES |
| 24" | ea. | 12024-FES |
| 30" | ea. | 12030-FES |
| 36" | ea. | 12036-FES |


## METAL FLARED END SECTIONS

| Size | Unit | Part Number |
|---|---|---|
| 6" | ea. | 12006-FESM |
| 8" | ea. | 12008-FESM |
| 10" | ea. | 12010-FESM |
| 12" | ea. | 12012-FESM |
| 15" | ea. | 12015-FESM |
| 18" | ea. | 12018-FESM |
| 24" | ea. | 12024-FESM |
| 30" | ea. | 12030-FESM |
| 36" | ea. | 12036-FESM |

## HINGED FLAP GATE OUTLET PROTECTION

| Size | Unit | Part Number |
|---|---|---|
| 6” | ea. | 20019-6FGP |
| 8” | ea. | 20020-8FGP |
| 10” | ea. | 20021-10FGP |
| 12” | ea. | 20022-12FGP |
| 15” | ea. | 20023-15FGP |
| 18” | ea. | 20024-18FGP |
| 24” | ea. | 20025-24FGP |

## MITERED HDPE END SECTIONS

| Size | Unit | Available Length |
|---|---|---|
| 12” | ea. | 3’ - 6’ |
| 15” | ea. | 6’ - 9’ |
| 18” | ea. | 6’ - 11’ |
| 24” | ea. | 7’ - 13’ |

## MISC. ITEMS

| Size | Unit | Part Number |
|---|---|---|
| Splicing Tape | ea. | 20003-TAPE |
| 4” x 5” T/T Marker Flag | 100 | 20004-5FLG |
| Watergone Downspout Kit | ea. | 20005-WG |
| Outlet Marker Post | ea. | 20046-OMP |
| 7’ 11” Red Intake Marker Flag | ea. | 20012-RFLG |
| Drain Sleeve Pipe Sock | 100’ | 20SPL-100SCK |


**OUTLET MARKER POST**

# SINGLE WALL FITTINGS

## DOWN SPOUT ADAPTOR

| Size | Unit | Part Number |
|---|---|---|
| 2" x 3" x 3" | 50 | 02002-33DSA |
| 2" x 3" x 4" | 50 | 02002-34DSA |
| 3" x 4" x 4" | 50 | 02003-44DSA |
| 4" x 6" x 6" | 50 | 02004-66DSA |

## CLAY TO PLASTIC ADAPTORS

| Size | Unit | Part Number |
|---|---|---|
| 3" | 50 | 02003-CPA |
| 4" | 50 | 02004-CPA |
| 5" | 50 | 02005-CPA |
| 6" | 50 | 02006-CPA |
| 8" | 10 | 02008-CPA |
| 10" | 1 | 02010-CPA |
| 12" | 1 | 02012-CPA |

## ELBOWS

| Size | Unit | Part Number |
|---|---|---|
| 3" 90 Degree Tile Elbow | 25 | 09003-90 |
| 4" 90 Degree Tile Elbow | 25 | 09004-90 |

## EXTERNAL SPLIT SOIL TIGHT COUPLERS

| Size | Unit | Part Number |
|---|---|---|
| 3" | 50 | 11003-SP |
| 4" | 50 | 11004-SP |
| 5" | 50 | 11005-SP |
| 6" | 50 | 11006-SP |
| 8" | 30 | 11008-SP |
| 10" | 30 | 11010-SP |
| 12" | ea. | 11012-SP |
| 15" | ea. | 11015-SP |
| 18" | ea. | 11018-SP |
| 24" | ea. | 11024-SP |
| 30" | ea. | 11030-SP |
| 36" | ea. | 11036-SP |
| 42" | ea. | 11042-SP |
| 48" | ea. | 11048-SP |

## EXTERNAL SNAP COUPLERS

| Size | Unit | Part Number |
|---|---|---|
| 4" | 50 | 11004-SN |
| 6" | 20 | 11006-SN |
| 8" | 5 | 11008-SN |
| 10" | 5 | 11010-SN |

## TAP TEES

| Size | Unit | Part Number |
|---|---|---|
| 3" Tap Tee | 50 | 30003-TT |
| 4" Tap Tee- Long | 50 | 30004-TTL |
| 4" Tap Tee- Short | 50 | 30004-TTS |
| 4" Internal Tap Tee-Short | 50 | 30004-TTSI |
| 4" Internal Tap Tee- Long | 50 | 30004-TTLI |
| 5" Tap Tee - Short | 25 | 30005-TTS |
| 6" Tap Tee - Short | 25 | 30006-TTS |

## STRAIGHT TEES

| Size | Unit | Part Number |
|---|---|---|
| 3" Straight Tile Tee | 25 | 30003-T |
| 4" Straight Tile Tee (Injection Molded) | 25 | 30004-T |
| 5" Straight Tile Tee | 10 | 30005-T |
| 6" Straight Tee | 10 | 30006-T |

## BLIND TEES

| Size | Unit | Part Number |
|---|---|---|
| 4" Blind Tee | 25 | 30004-TB |
| 5" x 4" Reducing Tee-Blind | 5 | 30005-4TB |
| 6" Blind Tile Tee | 10 | 30006-TB |
| 8"x8"x6"x5"x4" Step Tee-Blind | 5 | 30008-8654TB |
| 10" Blind Tile Tee | 3 | 30010-TB |
| 12" Blind Tile Tee | 3 | 30012-TB |
| 15" Blind Tee | ea. | 30015-TB |

## REDUCING TEES

| Size | Unit | Part Number |
|---|---|---|
| 4" x 3" Reducing Tee | 10 | 30004-3T |
| 5" x 4" Reducing Tee | 10 | 30005-4T |
| 5" x 4" Reducing Tee Internal | 10 | 30005-4TI |
| 6" Cross Reducing Tee | ea. | 30006-TC |
| 8" x 8" x 6" x 5" x 4" Reducing Tee | 5 | 30008-8654T |
| 10" x 10" x 8" x 6" Reducing Tee | 3 | 30010-1086T |
| 12" x 12" x 10" x 8" Reducing Tee | 3 | 30012-12108T |
| 15" x 15" x 12" x 10" Reducing Tee | ea. | 30015-151210T |

## WYES

| Size | Unit | Part Number |
|---|---|---|
| 3" Wye | 25 | 34003-Y |
| 4" Wye (Injection Molded) | 10 | 34004-Y |
| 5" Wye | 5 | 34005-Y |
| 5" x 4" Reducing Wye | 5 | 34005-4Y |
| 6" x 5" x 4" Reducing Wye | 5 | 34006-54Y |
| 8" Wye | ea. | 34008-Y |

# SINGLE WALL FITTINGS & ACCESSORIES

## SUMP BASINS & LIDS

| Size | Unit | Part Number |
|---|---|---|
| 16" x 24" Sump Pit Liner | ea. | 20006-1624SP |
| 16" x 30" Sump Pit Liner | ea. | 20007-1630SP |
| 16" Heavy Duty Locking Lid | ea. | 20008-16LID |
| 18" x 24" Sump Pit Liner | ea. | 20009-1824SP |
| 18" x 30" Sump Pit Liner | ea. | 20010-1830SP |
| 18" Heavy Duty Locking Lid | ea. | 20011-18LID |

## END CAPS

| Size | | Unit | Part Number |
|---|---|---|---|
| 3" | End Cap- Tile | 50 | 10003-EC |
| 4" | End Cap-Tile | 50 | 10004-EC |
| 5" | End Cap- Tile | 50 | 10005-EC |
| 6" | End Cap Tile | 20 | 10006-EC |
| 8" | End Cap-Tile | 10 | 10008-EC |
| 10" | End Cap-Tile | 10 | 10010-EC |
| 10"x4" | End Cap w/o Grommet | 10 | 10010-4ECNG |
| 12" | End Cap-Tile | 5 | 10012-EC |
| 15" | End Cap-Tile | ea. | 10015-EC |
| 18" | End Cap-Split | ea. | 10018-EC |
| 24" | End Cap- Split | ea. | 10024-EC |

## INTERNAL COUPLERS

| Size | Unit | Part Number |
|---|---|---|
| 3" (Injection Molded) | 50 | 14003-IC |
| 4" (Injection Molded) | 50 | 14004-IC |
| 5" (Injection Molded) | 25 | 14005-IC |
| 6" (Injection Molded) | 20 | 14006-IC |
| 8" | 10 | 14008-IC |

## PLASTIC PLUGS

| Size | Unit | Part Number |
|---|---|---|
| 3" Plastic Plug | 100 | 23003-PLG |
| 4" Plastic Plug | 100 | 23004-PLG |
| 4" Plastic Plug - Perforated | 100 | 23004-PLGP |
| 5" Plastic Plug | 100 | 23005-PLG |
| 6" Plastic Plug | 100 | 23006-PLG |

## REDUCERS

| Size | Unit | Part Number |
|---|---|---|
| 5 x 4 Reducer - Internal | 9 | 25005-4RI |
| 6 x 5 Reducer- Internal | 9 | 25006-5RI |
| 4" x 3" Reducer | 25 | 25004-3R |
| 6" x 5" x 4" Reducer (Ext) | 10 | 25006-54R |
| 8" x 6" Reducer | 5 | 25008-6R |
| 10" x 8" Reducer | 5 | 25010-8R |
| 12" x 10" Reducer | 5 | 25012-10R |
| 15" x 12" Reducer | ea. | 25015-12R |
| 15 x 12 x 10 Reducer | ea. | 25015-1210R |
| 18" x 15" Reducer | ea. | 25018-15R |
| 24" x 12" Reducer | ea. | 25024-12R |

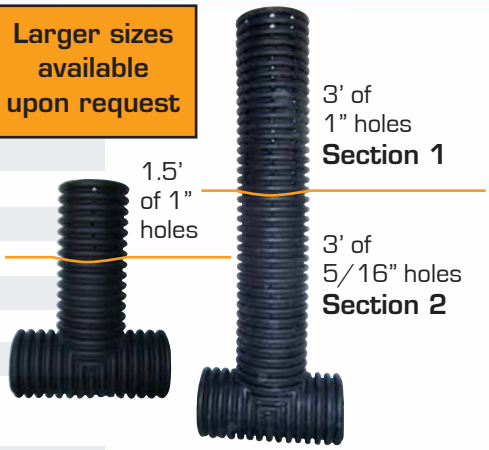
TIMEWELL DRAINAGE PRODUCTS

# MAXFLO Risers

## RISERS INLETS & TEES

| Size | | Unit | |
|---|---|---|---|
| MaXflo 12" x 3' | Riser | ea. | |
| MaXflo 12" x 6' | Riser | ea. | |
| MaXflo 15" x 3' | Riser | ea. | |
| MaXflo 15" x 6' | Riser | ea. | |
| MaXflo 18" x 3' | Riser | ea. | |
| MaXflo 18" x 6' | Riser | ea. | |
| MaXflo 24" x 3' | Riser | ea. | |
| MaXflo 24" x 6' | Riser | ea. | |

**Larger sizes available upon request**




| | | | |
|---|---|---|---|
| 5" | Hickenbottom Riser 1" Hole | ea. | 27005-HBR1 |
| 5" | Hickenbottom Riser 5/16 Hole | ea. | 27005-HBR516 |
| 5" | Hickenbottom Tee | ea. | 30005-HBT |
| 6" | Hickenbottom Riser 1" Hole | ea. | 27006-HBR1 |
| 6" | Hickenbottom Riser 5/16 Hole | ea. | 27006-HBR516 |
| 6" | Hickenbottom Tee | ea. | 30006-HBT |
| 8" | Hickenbottom Riser 1" Hole | ea. | 27008-HBR1 |
| 8" | Hickenbottom Riser 5/16 Hole | ea. | 27008-HBR516 |
| 8" | Hickenbottom Tee | ea. | 30008-HBT |
| 10" | Hickenbottom Riser 1" Hole | ea. | 27010-HBR1 |
| 10" | Hickenbottom Riser 5/16 Hole | ea. | 27010-HBR516 |
| 10" | Hickenbottom Tee | ea. | 30010-HBT |
| 12" | Hickenbottom Riser 1" Hole | ea. | 27012-HBR1 |
| 12" | Hickenbottom Riser 5/16 Hole | ea. | 27012-HBR516 |
| 12" | Hickenbottom Tee | ea. | 30012-HBT |
| 6" | Precision Intake Section 1 | ea. | 27006-PR1 |
| 6" | Precision Intake Section 2 | ea. | 27006-PR2 |
| 6" | Flat Bottom Precision Tee | ea. | 30006-PFBT |
| 6" | Round Bottom Precision Tee | ea. | 30006-PRBT |
| 8" | Precision Intake Section 1 | ea. | 27008-PR1 |
| 8" | Precision Intake Section 2 | ea. | 27008-PR2 |
| 10" | Precision Intake Section1 | ea. | 27010-PR1 |
| 10" | Precision Intake Section 2 | ea. | 27010-PR2 |
| 8" - 10" | Combo Precision Tee | ea. | 30008-10PT |

## RESIDENTIAL DRAINAGE ACCESSORIES

| Size | | Part Number |
|---|---|---|
| 4“ | Round Grate - Green | 13004-RGGR |
| 4” | Round Grate - Black | 13004-RGBK |
| 6” | Round Grate - Green | 13006-RGGR |
| 6” | Round Grate - Black | 13006-RGBK |
| 6” | Jiff-E-Basin | 05006-JIFB |
| 9” | Catch Basin | 05009-CB |
| 9” | Square Grate - Green | 13009-SQGGR |
| 9” | Square Grate - Black | 13009-SQGBK |
| 9” | Atrium Grate - Green | 13009-ATGGR |
| 9” | Atrium Grate - Black | 13009-ATGBK |
| 12” | Catch Basin 2 WAY | 05012-CB2 |
| 12” | Square Grate - Green | 13012-SQGGR |
| 12” | Square Grate - Black | 13012-SQGBK |
| 12” | Atrium Grate - Green | 13012-ATGGR |
| 12” | Atrium Grate - Black | 13012-ATGBK |
| 4” | Channel Drain | 06004-10CD |
| 4” | Channel Drain | 06004-4CD |
| 4” x 2 Ft. Grate | | 06004-2CDG |
| 4” | Endcap Adaptor | 06004-CDECA |
| 4” | Bottom Outlet Adaptor | 06004-CDBOA |
| 4” | End Cap | 06004-CDEC |
| 4” | Coupling | 06004-CDC |
| 4” | End Hub Outlet | 06004-CDEHO |
| 4” | Support Brace | 06004-CDSB |
| | Flip Up Drainage Emitter | 33003-4PUE |

# TRUCKLOAD WORKSHEET

TIMEWELL DRAINAGE PRODUCTS

| Description | Length | Truck Load Quantity | Unit | Point Value Per Unit | # Of Pieces Ordered = | Total Point Value |
|---|---|---|---|---|---|---|
| 3” | 100’ | 220 | Rolls | 0.455 | | |
| | 5600’ & 6200’ | 6 | Rolls | 16.666 | | |
| 4” | 100’ | 180 | Rolls | 0.5 | | |
| | 250’ | 76 | Rolls | 1.315 | | |
| | 3250’ | 6 | Rolls | 16.666 | | |
| 5” | 165’ | 76 | Rolls | 1.315 | | |
| | 2300’ | 6 | Rolls | 16.666 | | |
| 6” | 100’ | 76 | Rolls | 1.315 | | |
| | 1685’, & 1320’ | 6 | Rolls | 16.666 | | |
| 8” | 20’ | 240 | Sticks | 0.416 | | |
| | 405’ | 9 | Rolls | 11.111 | | |
| | 920’ | 6 | Rolls | 16.666 | | |
| 10” | 20’ | 180 | Sticks | 0.555 | | |
| | 625’ | 6 | Rolls | 16.666 | | |
| 12” | 10’ | 288 | Sticks | 0.347 | | |
| 12” | 20’ | 120 | Sticks | 0.833 | | |
| | 370’ | 6 | Rolls | 16.666 | | |
| 15” | 10’ | 195 | Sticks | 0.526 | | |
| 15” | 20’ | 80 | Sticks | 1.25 | | |
| | 220’ | 6 | Rolls | 16.666 | | |
| 18” | 10’ | 132 | Sticks | 0.735 | | |
| 18” | 20’ | 56 | Sticks | 1.785 | | |
| 24” | 10’ | 72 | Sticks | 1.388 | | |
| 24” | 20’ | 30 | Sticks | 3.333 | | |
| 30” | 10’ | 42 | Sticks | 2.38 | | |
| 30” | 20’ | 18 | Sticks | 5.555 | | |
| 36” | 10’ | 28 | Sticks | 3.57 | | |
| 36” | 20’ | 12 | Sticks | 8.333 | | |
| 42” | 10’ | 22 | Sticks | 4.45 | | |
| 42” | 20’ | 10 | Sticks | 10 | | |
| 48” | 10’ | 14 | Sticks | 7.14 | | |
| 48” | 20’ | 6 | Sticks | 16.666 | | |
| 60” | 20’ | 4 | Sticks | 25 | | |

Total Point Value Of Order

Divide By 100

100 Points per truck load — TOTAL TRUCK LOAD FOR ORDER

## Timewell Transportation

*From loading and handling to job site delivery, our logistics team is skilled, trained and ready to serve your needs.*

**Palletized Load Quantity for MaXflo**

| Number of Sticks per Pallet | |
|---|---|
| 4” | 63 |
| 6” | 33 |
| 8” | 23 |
| 10” | 18 |

| Number of Pallets per Truck | |
|---|---|
| 4” | 12 |
| 6” | 12 |
| 8” | 8 |
| 10” | 8 |

| Number of 10’ MaXflo Sticks on Trailer Deck | |
|---|---|
| 12” | 48 |
| 15” | 35 |
| 18” | 20 |
| 24” | 12 |
| 30” | 6 |
| 36” | 4 |
| 48” | 2 |

**Van Trailer Capacities:**

3”x 100’ - 185  4”x 100’ - 150

# TIMEWELL

## DRAINAGE PRODUCTS


★ **Selma, AL**
2 Industrial Parkway
Selma, Alabama 36701

★ **Jefferson, WI**
201 W. Plymouth St
Jefferson, Wisconsin 53549

★ **Sibley, IA**
1200 9th Avenue
Sibley, Iowa 51249

★ **Nashville, TN**
132 Spence Lane
Nashville, Tennessee 37210

★ **Providence, KY**
201 Donan Drive
Providence, Kentucky 42450

★ **Plainfield, IA**
1307 Badger Avenue
Plainfield, Iowa 50666

★ Headquarters | 196 US 24 1075N Ave. | Timewell, IL 62375

**800-720-8453** | **timewellpipe.com**

10/22