



STORMWATER

(800) 720-8453
www.timewellpipe.com

VACFLEX

- Manufactured for the Specific Demands of Industrial Vacuum Trucks
- Unmatched Strength
- Corrugated Profile for Maximum Flexibility
- High Visibility, Yellow (Also Available in Black)
- Chemical & Abrasion Resistance
- 100% Virgin Material
- UV Stabilizer
- Truckload Quantities Available
- Pipe shall comply with test methods, dimensions and markings found in ASTM F667



Available in
100' Coils

NOMINAL DIAMETER	INSIDE DIAMETER (AVERAGE)	OUTSIDE DIAMETER (AVERAGE)	MINIMUM PIPE STIFFNESS AT 5% DEFLECTION
4"	4.05"	4.60"	35 PSI
6"	6.05"	6.90"	35 PSI



PROUD MEMBER



*Everything you need for faster,
easier and safer installation!*

SPECIALIZED PRODUCTS FOR

TURF

**AVAILABLE FOR
INSTALLATION & RENOVATION**



INCLUDING:

- 2" Corrugated Tile
- Stick and Flexible Dual Wall

MAXFLEX MAXFLO



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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MAXPRO POLYPROPYLENE DUAL WALL

MAXPRO POLYPROPYLENE DUAL WALL PIPE

MaXpro smooth wall pipe is a superior polypropylene pipe with a smooth interior designed for gravity flow storm sewer retention/ detention and other high-capacity drainage applications.

SPECIFICATIONS

Timewell participates in and complies to all production standards set forth by AASHTO Product Evaluation & Audit Solutions. Pipe shall comply with requirements for test methods, dimensions and markings found in AASHTO designations M330.

JOINTS

The **MaXpro** Bell-and-Spigot joint system provides superior load-bearing capability and improved hydraulics. MaXpro is supplied with an elastomeric gasket meeting the requirements of ASTM F477. Watertight Bell-and-Spigot joints, tested to ASTM D3212 standards, are available upon request. When applicable, plain end pipe utilizing a wrap around coupler is available.

FITTINGS

Fittings conform to AASHTO M330. 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.

AASHTO DUAL WALL PIPE		
Size	Part Number	Configuration
12"	45012-0012P20	12" x 20' MaXpro Perforated
12"	45012-0012S20	12" x 20' MaXpro Solid
12"	45012-0012S30	12" x 30' MaXpro Solid
15"	45015-0015P20	15" x 20' MaXpro Perforated
15"	45015-0015S20	15" x 20' MaXpro Solid
15"	45015-0015S30	15" x 30' MaXpro Solid
18"	45018-0018P20	18" x 20' MaXpro Perforated
18"	45018-0018S20	18" x 20' MaXpro Solid
18"	45018-0018S30	18" x 30' MaXpro Solid
24"	45024-0024P20	24" x 20' MaXpro Perforated
24"	45024-0024S20	24" x 20' MaXpro Solid
24"	45024-0024S30	24" x 30' MaXpro Solid
30"	45030-0030P20	30" x 20' MaXpro Perforated
30"	45030-0030S20	30" x 20' MaXpro Solid
30"	45030-0030S30	30" x 30' MaXpro Solid
36"	45036-0036P20	36" x 20' MaXpro Perforated
36"	45036-0036S20	36" x 20' MaXpro Solid
36"	45036-0036S30	36" x 30' MaXpro Solid
48"	45048-0048P20	48" x 20' MaXpro Perforated
48"	45048-0048S20	48" x 20' MaXpro Solid
48"	45048-0048S30	48" x 30' MaXpro Solid

*Timewell MaXpro pipe meets or exceeds the same standards as M330.

Nominal Diameter	Inside Diameter (Average)	Outside Diameter (Average)	Minimum Pipe Stiffness at 5% Deflection
12"	12.09"	14.40"	65 psi
15"	15.12"	17.50"	54 psi
18"	18.12"	21.05"	50 psi
24"	24.07"	27.65"	44 psi
30"	30.48"	35.65"	36 psi
36"	36.02"	41.30"	29 psi
48"	48.39"	53.60"	25 psi

MAXPRO

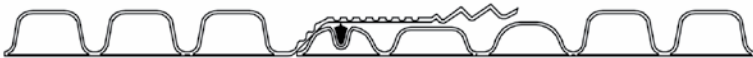
POLYPROPYLENE DUAL WALL FEATURES:

- In-Line Bell Design with ASTM F477 gaskets
- High performance bell/spigot for superior connective strength
- All MaXpro bells cover a minimum of two ribs
- All pipe and fittings meet or exceed AASHTO M330

PLUS...

- Strong & Durable
- UV-Resistant
- Chemical Resistant
- Easy Transport
- Smooth Interior

12", 15", 18", 24" POLYPROPYLENE PIPE



30", 36", 48" POLYPROPYLENE PIPE



TIMEWELL
MaXpro
Pipe meets
or exceeds
numerous
industry
standards
including:

AASHTO M330	Standard Specification for Polypropylene Pipe, 300-to-1500 mm (12 inch to-60 inch) Diameter
AASHTO R18	R 18, Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories
ASTM D638	Standard Test Method for Tensile Properties of Plastics
ASTM D790	Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulation Materials
ASTM D792	Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
ASTM D1238	Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer
ASTM D1505	Standard Test Method for Density of Plastics by the Density-Gradient Technique
ASTM D1693	Standard Test Method for Environmental Stress-Cracking of Ethylene Plastics
ASTM D2122	Standard Test Method for Determining Dimensions of Thermoplastic Pipe and Fittings
ASTM D2412	Standard Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-Plate Loading
ASTM D2444	Standard Test Method for Determination of Impact Resistance of Thermoplastic Pipe and Fittings by Means of a TUP (Falling Weight)
ASTM D4101	Standard Specification for Polypropylene and Extrusion Materials
ASTM F2136	Standard Test Method for Notched, Constant Ligament-Stress (NCLS) Test to Determine Slow-Crack-Growth Resistance of HDPE Resins or HDPE Corrugated Pipe

MAXFLO HDPE DUAL WALL PIPE

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.



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
4"	4.03"	4.73"	49.3 PSI
6"	6.05"	6.89"	49.3 PSI
8"	8.06"	9.11"	49.3 PSI
10"	10.08"	11.34"	49.3 PSI
12"	12.09"	14.40"	50 PSI
15"	15.12"	17.50"	42 PSI
18"	18.12"	21.05"	40 PSI
24"	24.07"	27.65"	34 PSI
30"	30.48"	35.65"	29 PSI
36"	36.02"	41.30"	22.5 PSI
42"	41.40"	47.70"	21 PSI
48"	48.39"	53.60"	20 PSI
60"	60.20"	66.40"	15 PSI

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 Referenced - ASTM D618 - ASTM D3350 - ASTM D2122 - ASTM F667 Standards: - ASTM D883 - ASTM D1693 - ASTM D2412 - ASTM F412
AASHTO M294	Requirements and testing for 12"-60" pipe, couplings and fittings for use in surface and subsurface drainage applications. Referenced - ASTM D618 - ASTM D3350 - ASTM D2122 - ASTM D2412 Standards: - ASTM D883 - ASTM D1693 - ASTM D2444 - 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 MaXflo 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"	08030-10AE / 08030-20AE	MaXflo 30" Bell/Spigot
36"	08036-10AE / 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

Timewell offers soil tight and watertight options for fitting connections.

See page 20 for details.



AE FEATURES AND BENEFITS:

- Engineered blend of HDPE 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
 Stormwater Detention/Retention Systems
 Industrial Applications
 Ditch Enclosures
 Commercial Applications
 Landfills

STORMWATER CHAMBERS

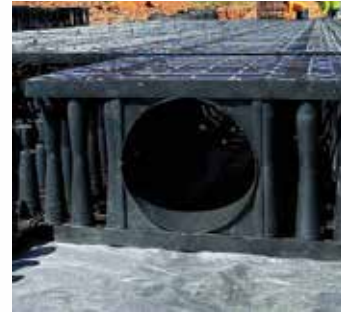
Versatile and Reliable Stormwater Solutions

At Timewell, we offer access to a broad selection of stormwater chambers from trusted manufacturers, providing efficient underground stormwater control, storage, and management solutions. Whether your project requires retention, detention, or infiltration, we can supply chambers tailored to your needs.

Key Features:

- **Low-Maintenance:** Chambers designed for long-term efficiency with minimal upkeep, reducing operational costs.
- **Regulatory Compliance:** Our chamber options meet or exceed environmental regulations, helping keep your projects compliant.
- **Durability:** Built to withstand heavy loads, ensuring lasting performance and longevity.
- **Variety:** With multiple shapes and sizes available, we can accommodate both low-profile and high-volume demands, giving you the flexibility to select the right solution for any project.

Timewell provides reliable stormwater management solutions, offering flexibility and customization with access to top-quality chambers to ensure optimal performance and compliance in any scenario.



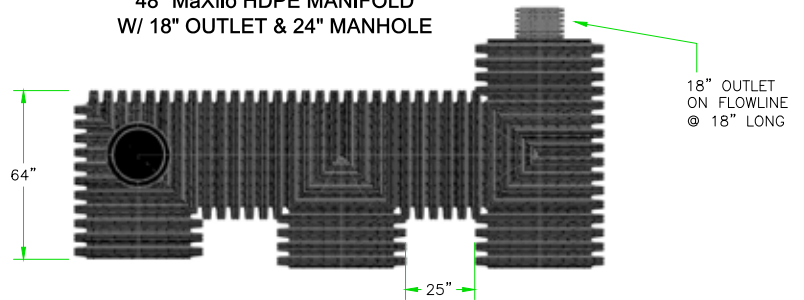
RETENTION/DETENTION

TYPICAL RETENTION/DETENTION COMPONENTS

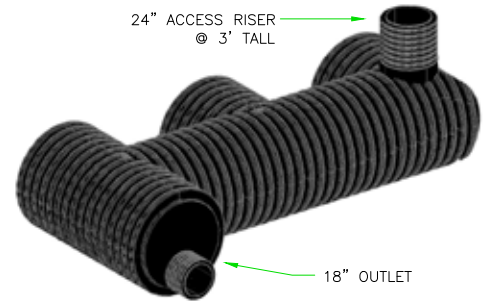
Size	Unit
24" Access Riser	ea.
6" Manifold Clean-out	ea.
8" Manifold Clean-out	ea.
12" Inlet/Outlet Stub	ea.
15" Inlet/Outlet Stub	ea.
18" Inlet/Outlet Stub	ea.
24" Inlet/Outlet Stub	ea.

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

48" MaXflo HDPE MANIFOLD W/ 18" OUTLET & 24" MANHOLE

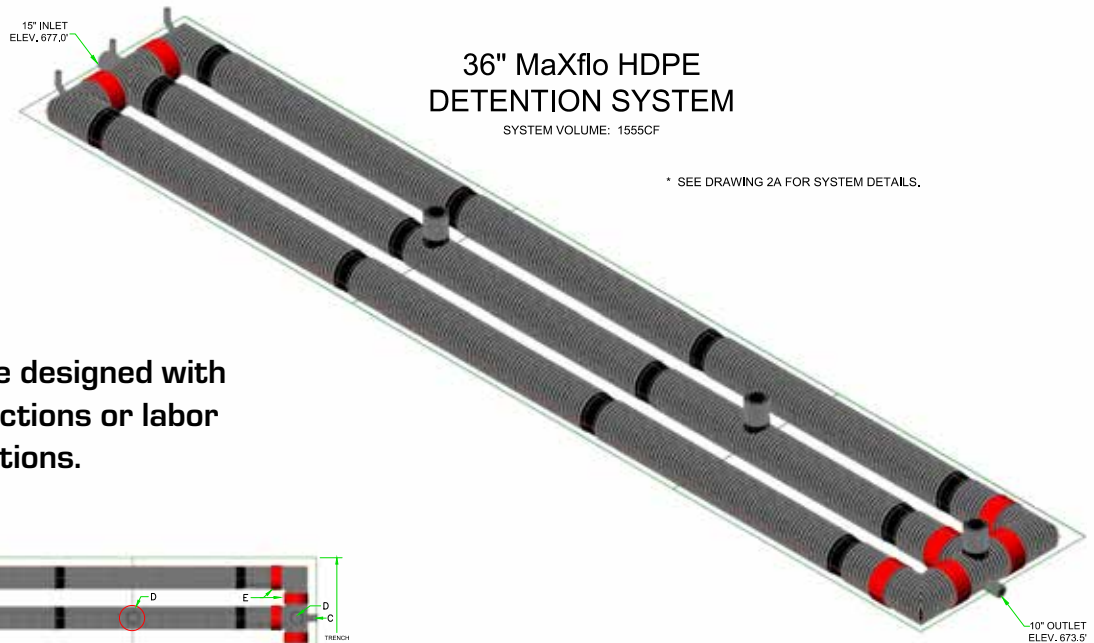


24" ACCESS RISER @ 3' TALL



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

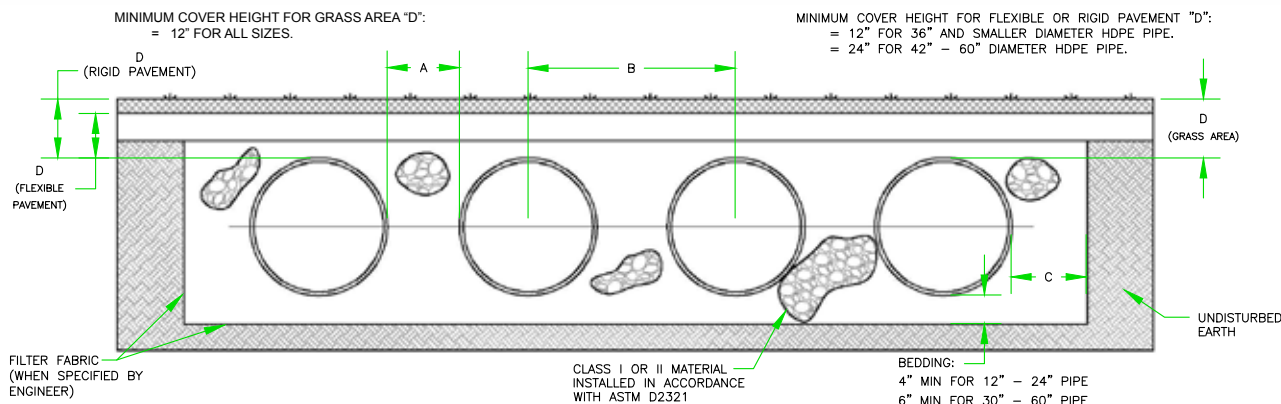
Timewell can provide both standard and three dimensional drawings for you and your clients.



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 ³ /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.

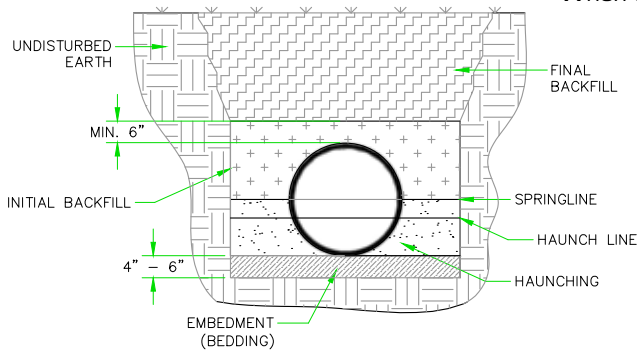
Timewell's recommended installation procedures listed below are based on **ASTM D2321** (Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications).

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.

FIG. 1
Trench Cross Section
Showing Terminology



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 1 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.

ENVELOPE CONSTRUCTION

In a compacted envelope, the load is distributed to the initial backfill, 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.

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 PIPE



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 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
2"	1.98"	2.50"	30 PSI
3"	3.02"	3.60"	30 PSI
4"	4.03"	4.60"	30 PSI
5"	5.04"	5.90"	30 PSI
6"	6.05"	6.90"	30 PSI
8"	8.06"	9.50"	30 PSI
10"	10.08"	11.60"	30 PSI
12"	12.09"	14.20"	30 PSI
15"	15.12"	17.70"	30 PSI

AVAILABLE CONFIGURATIONS

Size	Stick Length	Small Coils	Maxi
2"		500'	
3"		100'	6200'
4"	10'	100', 250'	3250'
5"		165'	2300'
6"		100'	1685'
8"	20'	405'	920'
10"	20'		575'
12"	20'		370'
15"	20'		



PERFORATED SINGLE WALL

Size	Part Number	
3" x 100'	28003-100P	Small Coil
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 1,685'	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 575'	18010-10X575B	Maxi
12" x 20'	29010-20P	Stick
12" x 370'	18012-12X370B	Maxi
15" x 20'	29015-20P	Stick

KNIFECUT/NARROW SLOT SINGLE WALL

Size	Part Number	
2" x 500'	28002-500K	Small Coil
3" x 100'	28003-100K	Small Coil
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 1,685'	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 575'	17010-10X575B	Maxi
12" x 20'	29012-20K	Stick
12" x 370'	17012-12X370B	Maxi
15" x 20'	29015-20K	Stick

SOLID SINGLE WALL

Size	Part Number	
2" x 500'	28002-500S	Small Coil
3" x 100'	28003-100S	Small Coil
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
8" x 20'	29008-20S	Stick
8" x 405'	28008-405S	Small Coil
8" x 920'	19008-8X920B	Maxi
10" x 20'	29010-20S	Stick
10" x 575'	19010-10X575B	Maxi
12" x 20'	29012-20S	Stick
12" x 370'	19012-12X370B	Maxi
15" x 20'	29015-20S	Stick

PERFORATED SINGLE WALL WITH SOCK

Size	Part Number	
2" x 500'	28002-500SCK	Small Coil
	By Request Only	
3" x 100'	28003-100SCK	Small Coil
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 2,300'	18005-5X2300BSK	Maxi
6" x 100'	S28006-100SCK	Small Coil
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 575'	18010-10X575BSK	Maxi
12" x 20'	29012-20SCK	Stick
12" x 370'	18012-12X370BSK	Maxi
15" x 20'	29015-20SCK	Stick

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

1.5'
of 1"
holes

3' of
1" holes
Section 1

3' of
5/16" holes
Section 2



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

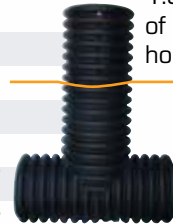
12"	Hickenbottom Riser 1" Hole	ea.	27012-HBR1
12"	Hickenbottom Riser 5/16 Hole	ea.	27012-HBR516
12"	Hickenbottom Tee	ea.	30012-HBT

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 Section 1	ea.	27010-PR1
10"	Precision Intake Section 2	ea.	27010-PR2

8" - 10"	Combo Precision Tee	ea.	30008-10PT
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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
- Stormwater 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



PVC DRAIN STRUCTURES AND GRATES

CATCH BASINS AND INLINE DRAINS

PVC DRAIN BASIN WITH ROUND GRATE

	12" - 60" Height	61" - 120" Height
8"	05H08-DBU5	05H08-DB05
10"	05H10-DBU5	05H10-DB05
12"	05H12-DBU5	05H12-DB05
15"	05H15-DBU5	05H15-DB05
18"	05H18-DBU5	05H18-DB05
24"	05H24-DBU5	05H24-DB05
30"	05H30-DBU5	05H30-DB05
36"	05H36-DBU5	05H36-DB05

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

	12" - 60" Height	61" - 120" Height
12"	05H12-STGU522	05H12-STG0522
15"	05H15-STGU522	05H15-STG0522
18"	05H18-STGU522	05H18-STG0522
24"	05H24-STGU522	05H24-STG0522
30"	05H30-STGU522	05H30-STG0522

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

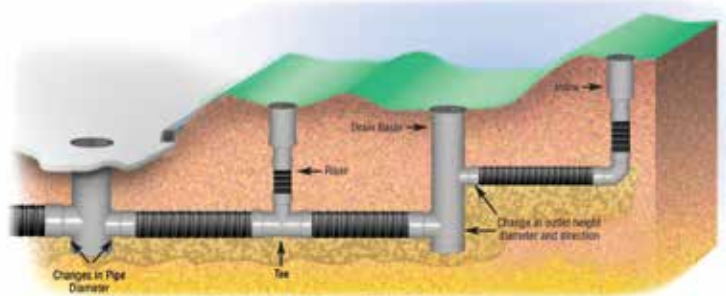
	12" - 60" Height	61" - 120" Height
18"	05H18-STGU523	05H18-STG0523
24"	05H24-STGU523	05H24-STG0523
30"	05H30-STGU523	05H30-STG0523

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

PVC CLEAN OUT CAPS FOR HDPE

Size	Part Number
4"	20060-PVC4CO
6"	20060-PVC6CO



Provided by



DRAIN BASIN GRATES

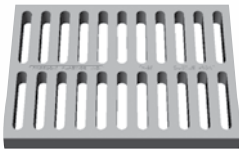
Type		Available Diameter
Drop-In Light Duty		6" - 30"
Drop-In Domed		8" - 10"
Square Hinged Standard	H - 25	12" - 15"
Square Hinged Pedestrian	H - 10	12" - 15"
Square Hinged Solid	H - 25	12" - 15"
Round Cover and Frame	H - 25	12" - 36"
Round Standard with Frame	H - 25	12" - 36"
Round Pedestrian with 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"



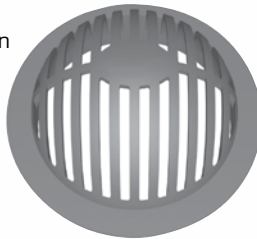
Round Standard



Drop-In Pedestrian



2' x 2' Square Curb Inlet Grate



Drop-In Domed
(One-Piece)

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



MANHOLE FRAMES & COVERS

Standard, watertight, self sealing as well as hinged frames and covers ranging in size from 12" through 48" diameter. Covers available with various logos for many municipalities as well as lettering for different applications.



MANHOLE FRAMES & GRATES

Various diameters available and frames ranging from 4" tall to 8" tall including beehive style grates.



Grate sizes vary from 12" x 12" up to 48" x 48".

CATCH BASIN FRAMES & GRATES

Various sizes in stock from 11 1/2" square up to 48" square as well as rectangular frames and grates including some ADA compliant grates. DOT standards available

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"
- Stormwater Inlet - easy installation on a new or existing drain line
- Easily connects to numerous pipe materials!

Provided by



MAXFLO COUPLERS

MAXFLO FITTING CONNECTION OPTIONS

SOIL TIGHT EXTERNAL SPLIT COUPLERS

Size	Unit	Part Number
------	------	-------------

DOUBLE WIDE

8"	5	11008-SPDW
10"	5	11010-SPDW
12"	5	11012-SPDW
15"	5	11015-SPDW

SINGLE WIDE

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

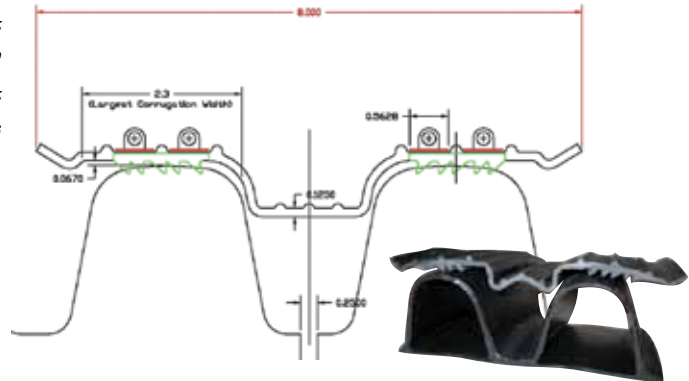


SOIL TIGHT EXTERNAL SNAP COUPLERS

Size	Unit	Part Number
------	------	-------------

4"	50	11004-SN
6"	20	11006-SN
8"	5	11008-SN
10"	5	11010-S

Seal Tight
for D3212
Watertight
Connections



WATERTIGHT SEAL TIGHT 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



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

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 11.25 DEGREE ELBOWS

Size	Part Number
4" x 4"	09004-1125
6" x 6"	09006-1125
8" x 8"	09008-1125
10" x 10"	09010-1125
12" x 12"	09012-1125
15" x 15"	09015-1125
18" x 18"	09018-1125
24" x 24"	09024-1125
30" x 30"	09030-1125
36" x 36"	09036-1125
42" x 42"	09042-1125
48" x 48"	09048-1125
60" x 60"	09060-1125

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
10" x 8"	31010-8T
12" x 4"	31012-4T
12" x 6"	31012-6T
12" x 8"	31012-8T
12" x 10"	31012-10T
15" x 4"	31015-4T
15" x 6"	31015-6T
15" x 8"	31015-8T
15" x 10"	31015-10T
15" x 12"	31015-12T
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
18" x 15"	31018-15T
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
24" x 18"	31024-18T
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 PLAIN END FITTINGS

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 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 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 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



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-O5
10"	05T10-O5
12"	05T12-O5
15"	05T15-O5
18"	05T18-O5
24"	05T24-O5



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"-36"	ea.	1203036-FES



TRASH RACKS AVAILABLE FOR HDPE AND METAL FLARED END SECTIONS

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

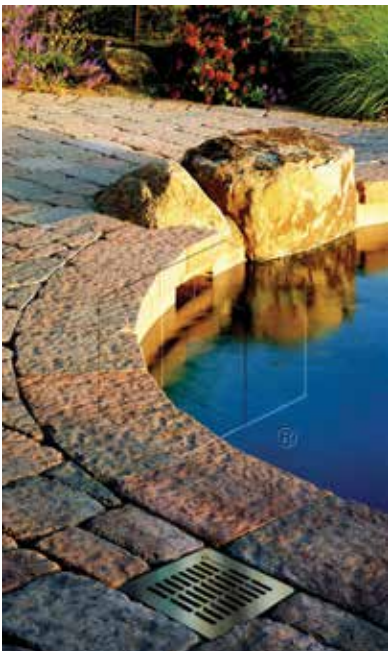
OUTLET MARKER POST



SPLICING TAPE

MISC. ITEMS

Size	Unit	Part Number
Splicing Tape	ea.	20003-TAPE
4" x 5" T/T Marker Flag	100	20004-5FLG
Outlet Marker Post	ea.	20046-OMP
7' 11" Red Intake Marker Flag	ea.	20012-RFLG
Drain Sleeve Pipe Sock	100'	20SPL-100SCK



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
12" Catch Basin 2 WAY	05012-CB2
12" Square Grate - Black	13012-SQGBK
Flip Up Drainage Emitter	33003-4PUE



SINGLE WALL FITTINGS

PVC CONFIGURATIONS
ALSO AVAILABLE.



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"	20	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
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



EXTERNAL SNAP COUPLERS

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

SINGLE WALL FITTINGS



TAP TEES

Size	Unit	Part Number
3" Flex Tap Tee	50	
3" Tap Tee	50	30003-TT
4" Flex Tap Tee - Short	50	
4" Flex Tap Tee - Long	40	30004-TTL
4" Tap Tee - Short	50	
4" Tap Tee - Long	50	
4" Internal Tap Tee - Short	50	
5" Tap Tee - Short	25	30005-TTS
6" Tap Tee - Short	25	30006-TTS



STRAIGHT TEES

Size	Unit	Part Number
2" Tee	10	30002-T
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 Reducing Tee	25	30004-TB
5" x 4" Blind Reducing Tee	5	30005-4TB
6" Blind Reducing Tee	10	30006-TB
8" x 8" x 6" x 5" x 4" Blind Reducing Tee	5	30008-8654TB
10" Blind Reducing Tee	3	30010-TB
12" Blind Reducing Tee	3	30012-TB
15" Blind Reducing Tee	ea.	30015-TB



REDUCING TEES

Size	Unit	Part Number
4" x 3" Reducing Tee	10	30004-3T
5" x 4" Reducing Tee Internal	10	30005-4TI
6" Reducing Tee	10	30006-654T
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	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
2"	End Cap - Tile	100	10002-EC
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
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
2" Internal Coupler	50	14002-IC
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" Internal Coupler	10	14008-IC



PLASTIC PLUGS

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

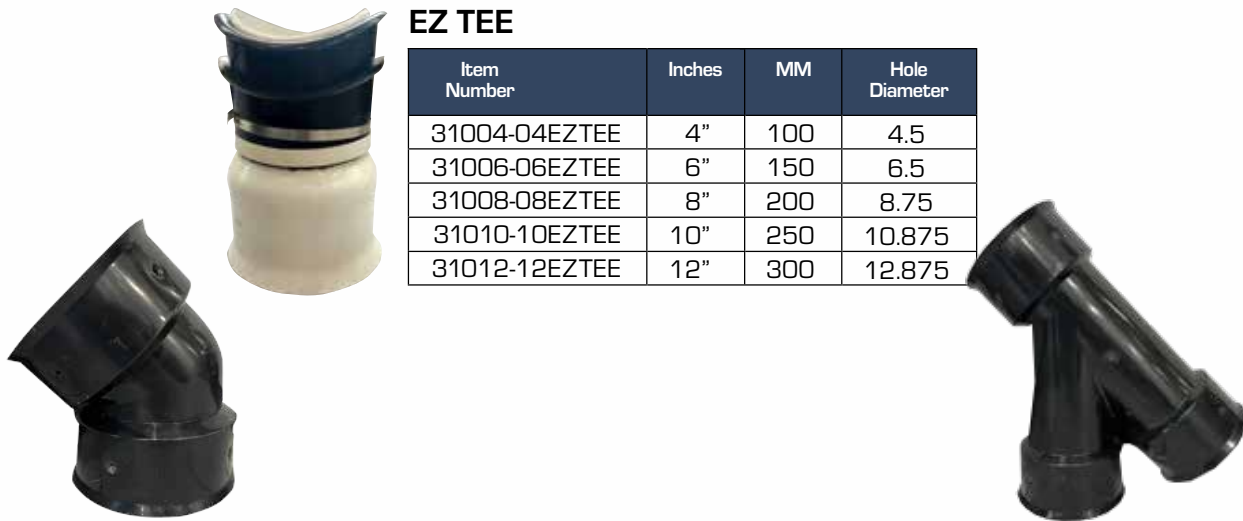


REDUCERS

Size	Unit	Part Number
4" x 3" x 2" Reducer	10	25004-32R
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



EZ TEE/INJECTION MOLDED FITTINGS



EZ TEE

Item Number	Inches	MM	Hole Diameter
31004-04EZTEE	4"	100	4.5
31006-06EZTEE	6"	150	6.5
31008-08EZTEE	8"	200	8.75
31010-10EZTEE	10"	250	10.875
31012-12EZTEE	12"	300	12.875

SOIL TIGHT FITTINGS (Bell x Bell x Bell)

Size	Part Number
4 x 4 TEE	31004-04HCTEE-ST
6 x 4 TEE	31006-06X04HCTEE-ST
6 x 6 TEE	31006-06HCTEE-ST
8 x 4 TEE	31008-08X04HCTEE-ST
8 x 6 TEE	31008-08X06HCTEE-ST
8 x 8 TEE	31008-08HCTEE-ST
12 x 4 TEE	31012-12X04HCTEE-ST
12 x 6 TEE	31012-12X06HCTEE-ST
12 x 12 TEE	31012-12HCTEE-ST

4 x 4 WYE	35004-04HCWYE-ST
6 x 4 WYE	35006-06X04HCWYE-ST
6 x 6 WYE	35006-06HCWYE-ST
8 x 4 WYE	35008-08X04HCWYE-ST
8 x 6 WYE	35008-08X06HCWYE-ST
8 x 8 WYE	35008-08HCWYE-ST

90° BEND (Bell x Bell)

4	90° BEND	09004-90-HC
6	90° BEND	09006-90-HC
8	90° BEND	09008-90-HC
12	90° BEND	09012-90-HC

45° BEND (Bell x Bell)

4	45° BEND	09004-45-HC
6	45° BEND	09006-45-HC
8	45° BEND	09008-45-HC
12	45° BEND	09012-45-HC

WATER TIGHT FITTINGS (Bell x Bell x Bell)

Size	Part Number
4 x 4 TEE	31004-04HCTEE-WT
6 x 4 TEE	31006-06X04HCTEE-WT
6 x 6 TEE	31006-06HCTEE-WT
8 x 4 TEE	31008-08X04HCTEE-WT
8 x 6 TEE	31008-08X06HCTEE-WT
8 x 8 TEE	31008-08HCTEE-WT
12 x 4 TEE	31012-12X04HCTEE-WT
12 x 6 TEE	31012-12X06HCTEE-WT
12 x 12 TEE	31012-12HCTEE-WT

4 x 4 WYE	35004-04HCWYE-WT
6 x 4 WYE	35006-06X04HCWYE-WT
6 x 6 WYE	35006-06HCWYE-WT
8 x 4 WYE	35008-08X04HCWYE-WT
8 x 6 WYE	35008-08X06HCWYE-WT
8 x 8 WYE	35008-08HCWYE-WT

90° BEND (Bell x Bell)

4	90° BEND	09004-90-HC-WT
6	90° BEND	09006-90-HC-WT
8	90° BEND	09008-90-HC-WT
12	90° BEND	09012-90-HC-WT

45° BEND (Bell x Bell)

4	45° BEND	09004-45-HC-WT
6	45° BEND	09006-45-HC-WT
8	45° BEND	09008-45-HC-WT
12	45° BEND	09012-45-HC-WT

OUTSIDE CARRIER LOAD WORKSHEET

Description	Length	Truck Load Quantity	Unit	Point Value	# Of Pieces	Total
				Per Unit	Ordered = Point Value	
Van Trailers	2"	500	130	Rolls	0.769	
	3"	100'	185	Rolls	0.541	
	4"	100'	130	Rolls	0.769	
		250'	54	Rolls	1.851	
	5"	165'	54	Rolls	1.851	
	6"	100'	54	Rolls	1.851	

Hotshots & Drop Decks	4"	20'	864	Sticks	0.116	
	6"	20'	396	Sticks	0.253	
	8"	20'	216	Sticks	0.463	
	10"	20'	144	Sticks	0.666	
	12"	10'	212	Sticks	0.471	
	12"	20'	106	Sticks	0.943	
	15"	10'	136	Sticks	0.735	
	15"	20'	68	Sticks	1.47	
	18"	10'	88	Sticks	1.136	
	18"	20'	44	Sticks	2.272	
	24"	10'	48	Sticks	2.083	
	24"	20'	24	Sticks	4.166	
	30"	20'	18	Sticks	5.555	
	36"	20'	10	Sticks	10	
	42"	20'	8	Sticks	12.5	
48"	20'	6	Sticks	16.666		
60"	20'	2	Sticks	50		

Total Point Value Of Order

Divide By 100

100 Points per truck load

TOTAL TRUCK LOAD FOR ORDER

BEST VALUE

MAXFLO
MAX-PACK

480' - 24"

480' - 15"

480' - 18"

480' - 12"

TIMEWELL TRUCKLOAD WORKSHEET



Description	Length	Truck Load Quantity	Unit	Point Value Per Unit	# Of Pieces Ordered = Point Value	Total
2"	500'	120	Rolls	.167		
3"	100'	220	Rolls	0.455		
	6200'	6	Rolls	16.666		
4"	100'	185	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'	6	Rolls	16.666		
4"	20'	756	Sticks	0.13		
6"	20'	396	Sticks	0.252		
8"	20'	240	Sticks	0.416		
	405'	9	Rolls	11.111		
	920'	6	Rolls	16.666		
10"	20'	180	Sticks	0.555		
	575'	6	Rolls	16.666		
12"	10'	288	Sticks	0.347		
12"	20'	120	Sticks	0.833		
	370'	6	Rolls	16.666		
15"	10'	190	Sticks	0.526		
15"	20'	80	Sticks	1.25		
	220'	6	Rolls	16.666		
18"	10'	136	Sticks	0.735		
18"	20'	56	Sticks	1.785		
24"	10'	72	Sticks	1.388		
24"	20'	30	Sticks	3.333		
30"	20'	18	Sticks	5.555		
36"	20'	12	Sticks	8.333		
42"	20'	10	Sticks	10		
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" 108

6" 33

8" 27

10" 18

Number of Pallets per Truck

4" 8

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' - 130

Need Help?

Call Timewell's Customer Service Team at 800-720-8453



TIMEWELL

DRAINAGE PRODUCTS



★ **Selma, AL**

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Selma AL 36701

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Jefferson, Wisconsin 53549

★ **Sibley, IA**

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★ **Remington, IN**

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