



**Flying W Plastics, Inc.**

# PVC SEWER & DRAIN PIPE



Typical Applications:  
Sewer & Underground Drains  
Storm Drainage  
House Septic Connections  
Leaching Systems  
Foundation Drains  
Land Drainage

PVC Sewer and Drain pipe manufactured for the building and construction industry. Made to the specifications of ASTM D-2665, ASTM D-2729 and ASTM D-3034.

Available in sizes 3"-6" in white or green. Palletized and banded for ease of shipping and handling. Comes in 10' lengths with a belled end in both solid and perforated. To place an order or to contact a distributor in your area, please call

**Flying "W" Plastics  
at 800-327-4735**

P.O. Box 759

487 Vanhorn Drive  
Glenville, WV 26351

**or visit us on the web at  
[www.flyingwplastics.com](http://www.flyingwplastics.com)**

for more information





## Flying W Plastics, Inc.

### Standard Specification For PVC Sewer & Drain Pipe **ASTM D 2729**

#### Scope:

This specification covers Flying "W" Plastics, Inc. PVC Sewer and Drain pipe is manufactured in accordance with ASTM D 2729. This pipe is designed and has the physical, chemical, and other properties for sewer and drainage application outside the building.

#### Typical Application:

Building sewer and underground Drains-standard. Storm drainage Standard and perforated. House Connections to septic tanks-Standard. Leaching system piping For septic tank effluents-standard and perforated. Footing drains (foundation drains)-standard and perforated. Land drainage-standard and perforated.

#### Installation:

Pipe shall be installed in Accordance with ASTM D 2321 (Standard Practice for Underground Installation of Thermoplastics Pipe for Sewers And Other Gravity-Flow Applications). Solvent cement- pipe shall be Joined with fittings or to other Like pipe by means of an Approved solvent cement, See ASTM D 2564

#### Key Features:

Resistance to corrosion and abrasion-Resistance to chemicals normally found in sanitary sewer systems-Smooth bore for improved flow Characteristics- Low cost Installation- Lightweight-Resistance to root intrusion- Long life expectancy 3000 pound crush rating.



#### Quality Assurance:

All pipe marketed by Flying "W" Plastics With designation, ASTM D 2729, Is certified to have been manufactured, inspected, sampled, and tested in accordance with this Specification and has been found to meet the requirements therein.



## Flying W Plastics, Inc.

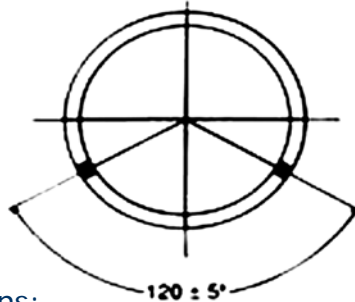
### Specification For ASTM D 2729

(continued)

#### Perforations:

Unless otherwise specified, the perforated pipe shall have two rows of holes. 3" has 1/2" holes and 4" & 6" has 5/8" holes in diameter on 5" centers, with allowable tolerances of plus or minus 1/8" on the diameter and plus 1/4" or minus 0" on the spacing, and the rows shall be parallel to the axis of the pipe and 120 degrees plus or minus 5 degrees apart. 1/2" holes available on request. 4" & 6" is also available in 3 rows at 4, 6 & 8 o'clock or 4, 8 & 12 o'clock.

#### Typical 2-Row Pattern Conforms to ASTM D-2729



#### Dimensional Specifications:

Nominal Pipe Size	Part Number	Average Outside Diameter	Minimum Wall Thickness	Average weight per foot	Minimum Pipe Stiffness at 5% Deflection*
3" 1000' Pallets 48,000' Truck	SD1030 Solid SD1031 Perforated	3.250"	0.070"	.44#	19psi
4" 600' Or 1200' Pallets 28,800'/Truck	SD1040 Solid SD1041 Perforated	4.215"	0.075"	.63#	11psi
6" 260' Pallets 12,480'/Truck	SD1060 Solid SD1061 Perforated	6.275"	0.100"	1.22#	8psi

The 5% deflection criterion, which was arbitrarily selected for testing convenience, should not be considered as limitation with respect to in-use deflection. The engineer is responsible for establishing the acceptable limit.

All pipe shall be supplied in 10 ft. joints unless otherwise specified. For belled pipe fabricated from pipe sections, the thickness of the belled section shall be considered satisfactory if the bell was formed from pipe meeting the wall thicknesses listed in the table above.



## Flying W Plastics, Inc.

### Standard Specification For **ASTM D 3034** (Cell Class 12454) Solvent Weld PVC Sewer & Drain Pipe

#### Scope:

This specification covers Flying "W" Plastics, Inc. PVC Sewer and Drain pipe manufactured in accordance with ASTM D 3034. This pipe is designed and has the physical, chemical, and other properties for non-pressure drainage of sewage and surface water.

#### Typical Application:

Building sewers and underground drains - standard.  
Storm drainage - standard and perforated.  
House connections to septic tanks - standard.  
Leaching system piping for septic tank effluents - standard and perforated.  
Footing drains (foundation drains) -standard and perforated. Land -drainage - standard and -perforated.

#### Installation:

Pipe shall be installed in accordance with ASTM D 2321 (Standard Practice for Underground Installation of Thermoplastics Pipe for Sewers and Other Gravity-Flow Applications).  
Solvent cement - pipe shall be joined with fittings or to other like pipe by means of an approved solvent cement, See ASTM D2564

#### Key Features:

Resistance to corrosion and abrasion  
Resistance to chemicals normally found in sanitary sewer systems and drainage systems  
Smooth bore for improved flow characteristics  
Low cost installation  
Lightweight  
Resistance to root intrusion  
Long life expectancy



#### Quality Assurance:

All pipe marketed by Flying "W" Plastics with this Designation, ASTM D 3034, is Certified to have been Manufactured, inspected, sampled, And tested in accordance with this Specification and has been found to meet the requirements therein



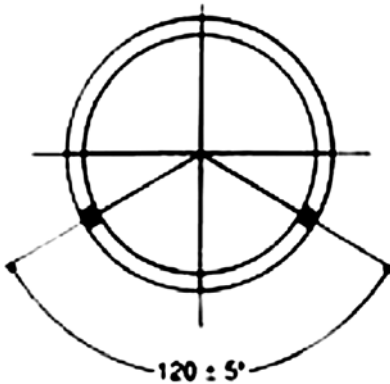
## Flying W Plastics, Inc.

### Standard Specification For **ASTM D 3034** Solvent Weld PVC Sewer & Drain Pipe (Continued)

**Perforations:**

Unless otherwise specified, the perforated pipe shall have two rows of holes (5/8") in diameter on 5" centers, with allowable tolerances of plus or minus 1/8" on the diameter and plus 1/4" or minus 0" on the spacing, and the rows shall be parallel to the axis of the pipe and 120 degrees plus or minus 5 degrees apart. 1/2" holes available on request. Also available with 3 rows at 4, 6 & 8 o'clock or 4, 8 & 12 o'clock.

### Typical 2-Row Pattern Conforms to ASTM D-3034



**Dimensional Specifications:**

Nominal Pipe Size	Part Number	Average Outside Diameter	Minimum Wall Thickness	Average Weight Per Foot	Pallet Truckload Quantities
4"	SWR-3540 Standard SWR-3541 Perforated	4.215"	0.120"	1.05#	600' Or 1200' Pallets 28800' / Truck
6"	SWR-3560 Standard SWR-3561 Perforated	6.275"	0.180"	2.35#	260' Pallets 12480' / Truck

**• Heavier wall SDR 26 also available on request.**

•All pipe shall be supplied in 10 ft. joints unless otherwise specified. For belled pipe fabricated from pipe sections, the thickness of the belled section shall be considered satisfactory if the bell was formed from pipe meeting the wall thickness listed in the table above.



## Flying W Plastics, Inc.

### Gasketed Sewer Pipe ASTM D3034-SDR 35

14' Lengths-Belled End-Solid Green

- Flying "W" Plastics SDR 35 gasketed PVC sewer pipe is manufactured in accordance with ASTM D3034 standard specification for PVC (poly vinyl chloride) sewer pipe, and is made from PVC material having a cell classification of 12454B as defined in ASTM D1784 standard specification for rigid poly vinyl chloride compounds.

- Gasketed sewer pipe uses a gasket preinstalled in a pocket inside the bell to provide a leak resistant joint between the bell and the spigot.

The gasket material meets the requirements of ASTM F477, standard specifications for elastomeric seals (gaskets) for joining plastic pipe. This sewer pipe is resistant to gases and chemicals normally found in sanitary sewer systems. SDR 35 wall thicknesses maintain excellent impact resistance which provides minimum breakage during handling and installation. It's strength and resilience absorbs minor earth movement to prevent shearing and withstands normal soil loads to prevent crushing or collapsing.

- Flying "W" Plastics sewer pipe should be installed in accordance with ASTM D2321, the recommended practice for underground installation for flexible thermoplastic sewer pipe.

- Normally supplied in 14 ft. laying lengths. Other lengths and perforations available on request.

Size	Part#	Description	Pallet QTY	O.D.	Min. Wall
4"	SWG-35414 GR	Green 14' Gasket	840'/60 Pieces	4.215"	0.120"
6"	SWG-35614 GR	Green 14' Gasket	364'/26 Pieces	6.275"	0.180"





## Flying W Plastics, Inc.

### Standard Specification For **SCH 40** (Non-Pressure Rated) PVC Sewer, Drain & Vent Pipe

#### Scope:

This specification covers Flying "W" Plastics, Inc. PVC Sewer and Drain pipe manufactured in accordance with the dimensional specifications of ASTM D 2665. This pipe is designed and has the physical, chemical, and other properties for sewer, drainage, and vent applications outside the building in non-pressure applications.

#### Typical applications:

Building sewers and underground drains - standard.  
Storm drainage - standard and perforated.  
House connections to septic tanks- standard.  
Leaching system piping for septic tank effluents - standard and perforated.  
Footing drains (foundation drains)- standard and perforated.  
Land drainage - standard and perforated.

#### Installation:

Pipe shall be installed in accordance with ASTM D 2321 (Standard Practice for Underground Installation of Thermoplastics Pipe for Sewers and Other Gravity-Flow Applications).  
Solvent cement - pipe shall be joined with fittings or to other like pipe by means of an approved solvent cement, see ASTM D 2564.

#### Key features:

Resistance to corrosion and Abrasion  
Resistance to chemicals normally found in sanitary sewer systems and drainage systems  
Smooth bore for improved Flow characteristics  
Low cost installation  
Lightweight  
Resistance to root Intrusion  
Performance Tested  
Long life expectancy



#### Disclaimer:

It is the responsibility of the Installer to make certain that Pipe conforms to local, state, federal, DOT or other regulatory Bodies that may have approved Vendors or different Specifications other than those Listed herein.



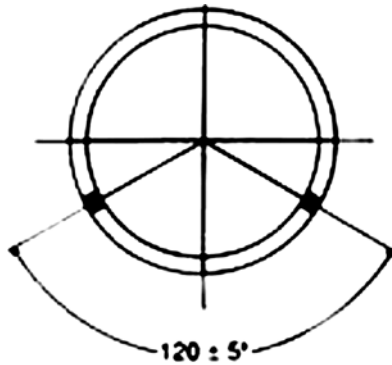
## Flying W Plastics, Inc.

### Standard Specification For SCH 40 (Non-Pressure Rated) PVC Sewer, Drain & Vent Pipe (continued)

#### Perforations:

Unless otherwise specified, the perforated pipe shall have two rows of holes (5/8") in diameter on 5" centers, with allowable tolerances of plus or minus 1/8" on the diameter and plus 1/4" or minus 0" on the spacing, and the rows shall be parallel to the axis of the pipe and 120 degrees plus or minus 5 degrees apart. Also available with 3 rows at 4, 6 & 8 o'clock or 4, 8 & 12 o'clock on request. Other hole sizes also available.

#### TYPICAL 2-Row Pattern Conforming to ASTM D 2665



#### Dimensional Specifications

Nominal Pipe Size	Part Number	Average Outside Diameter	Minimum Wall Thickness	Average Weight Per Foot	Pallet Truckload Quantities
4"	SDD 1040 Solid SDD 1041 Perforated	4.50"	0.237"	2.04#	(10') 670/20,100' (20') 1340/ 20,100'
6"	SDD 060 Solid SDD 1061 Perforated	6.625"	0.280"	3.70#	(10') 260'/ 10, 400 (20') 520'/ 10, 400

The 5% deflection criterion, which was arbitrarily selected for testing convenience, should not be considered as limitation with respect to in-use deflection. The engineer is responsible for establishing the acceptable limit.

All pipe shall be supplied in 10ft. or 20ft. plus or minus 1/4" joints unless otherwise specified. For belled pipe fabricated from pipe sections, the thickness of the belled section shall be considered satisfactory if the bell was formed from pipe meeting the wall thicknesses listed in the table above.