

Duraslot[®] XL Trench Drains

Duraslot XL trench drains provide superior inlet capacity and conveyance volume and are engineered to stand up to heavy traffic loads. Manufactured with durable and corrosion-resistant materials, Duraslot XL provides a long-lasting, cost-effective solution to stormwater capture. Duraslot XL adapts to other ADS products seamlessly making for easy design and installation and requiring fewer fittings or basins.

The product is made from dual-wall corrugated polyethylene pipe with an aluminum slot mounted on top. It is a cost-effective substitute for precast trench drains or cast-in-place trench drains with steel or cast iron grates.

The product is available in standard slot or variable slot height made specific to your project's needs.



Applications

- Streets/Highways
- Commercial
- Warehouse
- Parks
- Loading Docks
- Parking lots
- Athletic fields
- Schools/Plazas

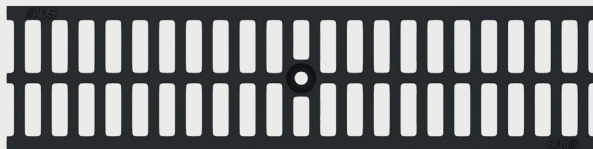
Features

- 5" (125 mm) ductile iron grates
- Up to 36" (900 mm) diameter N-12[®] pipe
- Tested to AASHTO HS-25
- Custom height slots
- Nyloplast[®] cleanouts available

Benefits

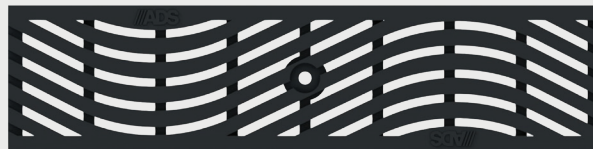
- Greater hydraulic efficiency compared to corrugated steel pipe
- High conveyance capacity makes for longer continuous runs for less cost
- N-12 pipe offers 100-year design service life with high durability and corrosion resistance

Duraslot XL Grates



Standard grate

- Increased inlet capacity
- Higher load rating



Pedestrian grate

- ADA compliant & heel proof
- Decorative pattern

Duraslot XL Trench Drain Specification

Scope

This specification describes 6"-36" (150-900 mm) ADS Duraslot XL pipe for use in surface drain and conveyance applications.

Pipe Requirements

Duraslot XL pipe, as manufactured and distributed by ADS, shall have a smooth interior and annular exterior corrugations with an aluminum slot grate frame mounted longitudinally along the length of the pipe to accept the grate, while maintaining the original pipe diameter.

- 6"-10" (150-250 mm) pipe shall meet AASHTO M252, Type S
- 12"-36" (300-900 mm) pipe shall meet AASHTO M294, Type S or ASTM F2306
- Manning's "n" value for use in design shall be 0.012

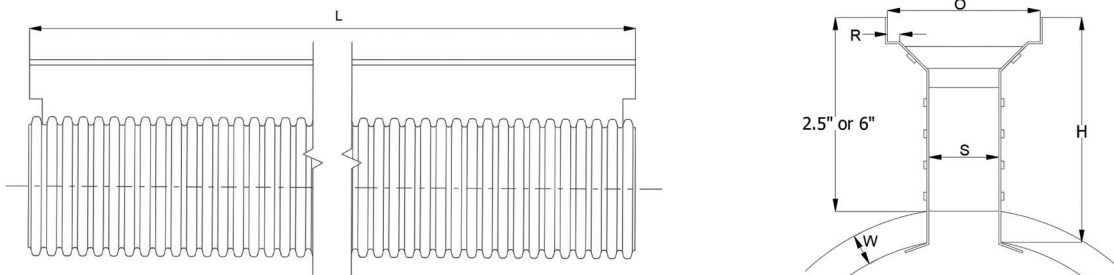
The aluminum slot grate frame shall be manufactured from 0.063" (1.6 mm) tempered commercial aluminum meeting the requirements of ASTM B209, consisting of two parallel plates separated by spacers spanning the slot width. The aluminum slot grate frame shall be coated with a primer to protect the aluminum when installed in concrete. Grates furnished by ADS shall be made of ductile iron with a 4.81" (122 mm) width and 19.69" (500 mm) length. The grate pattern, open area and load rating will vary based on the chosen design. The flange at the bottom of the aluminum slot grate frame shall be riveted to the pipe with a minimum of two rivets per linear foot.

Fittings

Duraslot XL fittings shall be modified from fittings which conform to AASHTO M252, AASHTO M294 or ASTM F2306.

Installation

Installation shall be in accordance with ADS recommended installation instructions. Contact your local ADS representative or visit adspipe.com for a copy of the latest installation guidelines.



Nominal Diameter in (mm)									
	6 (150)	8 (200)	10 (250)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)
L (drain grate length)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)	118.5 (3010)
H 2.5" (63 mm) slot	3.0 (76)	3.0 (76)	3.0 (76)	3.5 (89)	3.75 (95)	4.0 (102)	4.75 (121)	5.0 (127)	5.25 (133)
H 6" (150 mm) slot	6.5 (165)	6.5 (165)	6.5 (165)	7.0 (178)	7.0 (178)	7.0 (178)	7.25 (184)	8.25 (210)	8.25 (210)
O opening width in (mm)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)	5.0 (127)
R slot width in (mm)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)	0.316 (8)
S slot width in (mm)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)	2.25 (57)
W pipe width with corrugation in (mm)	0.46 (12)	0.61 (15)	0.73 (19)	1.15 (29)	1.30 (33)	1.57 (40)	1.86 (47)	2.55 (65)	2.85 (72)

NOTE:

1. Custom slot heights available upon request. Production of custom slots will require approval by the Duraslot Project Engineer. Sign shopped drawings also required from interested party.
2. Other grate material options available upon request. Contact local ADS representative for availability of grate material option.

