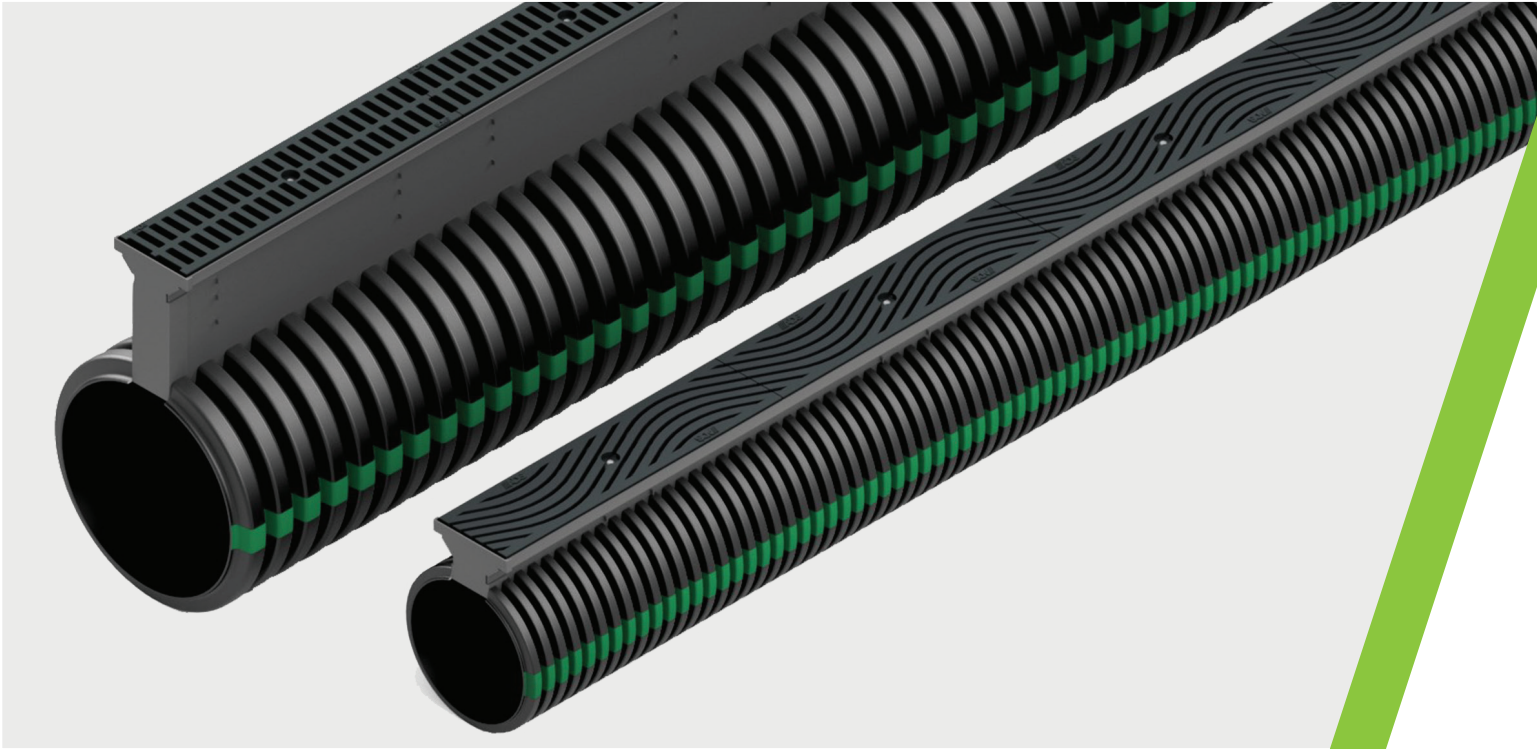


Duraslot® XL

Submittal Package



Package Contents

1. Product overview
 - a. ADS standard specification
2. Duraslot XL standard drawings
 - a. Standard slot height
 - b. Custom slot height
 - c. Standard grate
 - d. Pedestrian grate
 - e. Duraslot XL assembly



adspipe.com
800-821-6710

Duraslot® XL Specification

Scope

This specification describes 6- through 36-inch (150 to 900 mm) diameter Duraslot XL pipe for use in surface drain and conveyance applications.

Pipe Requirements

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

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

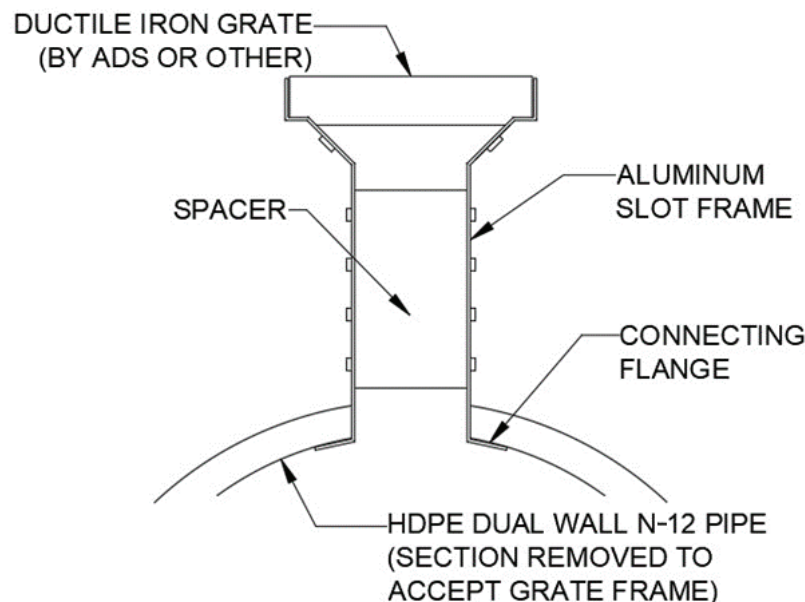
The aluminum slot frame shall be manufactured from 0.063" (1.6 mm) thick tempered commercial 5052 aluminum meeting the requirements of ASTM B209, consisting of two parallel plates separated by spacers spanning the slot width. The aluminum slot frame shall be coated with a primer to protect the aluminum when installed in concrete. Grates furnished by ADS shall be made of ductile iron with a 4.81-inch (122 mm) width and 19.69-inch (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 inside crown of 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 www.adspipe.com for a copy of the latest installation guidelines.

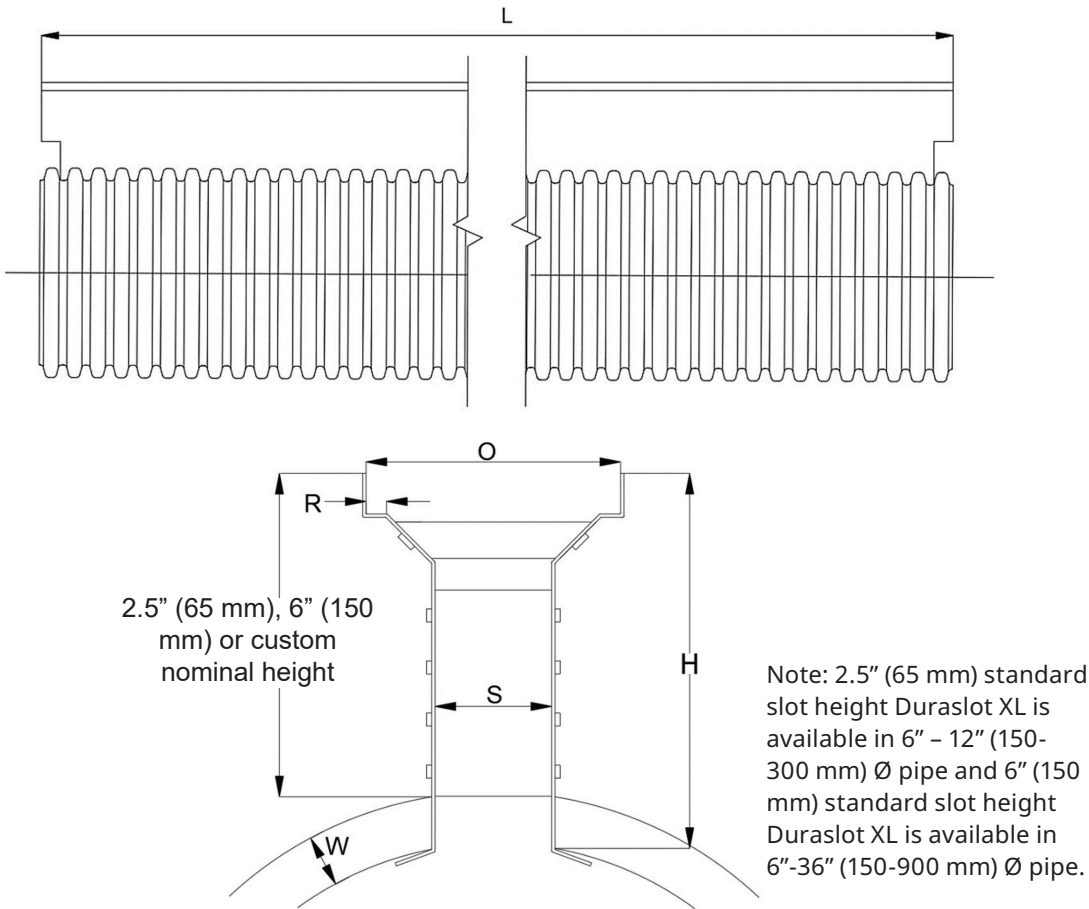


Duraslot XL Standard Dimensions

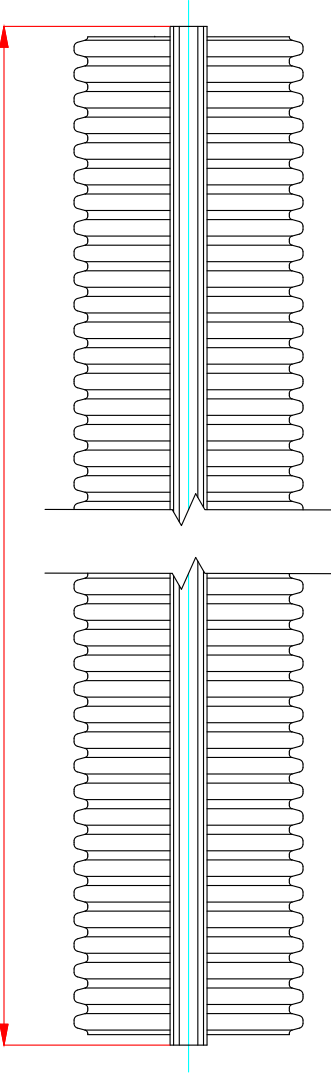
	Nominal Pipe Diameter in (mm)								
	6 (150)	8 (200)	10 (250)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)
L – Drain Grate Length	118.5 (3010)								
H – 2.5" (65 mm) Slot	3.0 (76)	3.0 (76)	3.0 (76)	3.5 (89)	3.75 (95)	4.0 (102)	4.75 (121)	5.0 (127)	5.25 (133)
H – 6.0" (150 mm) Slot	6.5 (165)	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	5.0 (127)								
R – Slot Width	0.316 (8)								
S – Slot Width	2.25 (57)								
W – Pipe Width with Corrugation	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. Signed shop drawings also required from interested party.
- 2. Other grate material options available upon request. Contact local ADS representative for availability of grate material option.

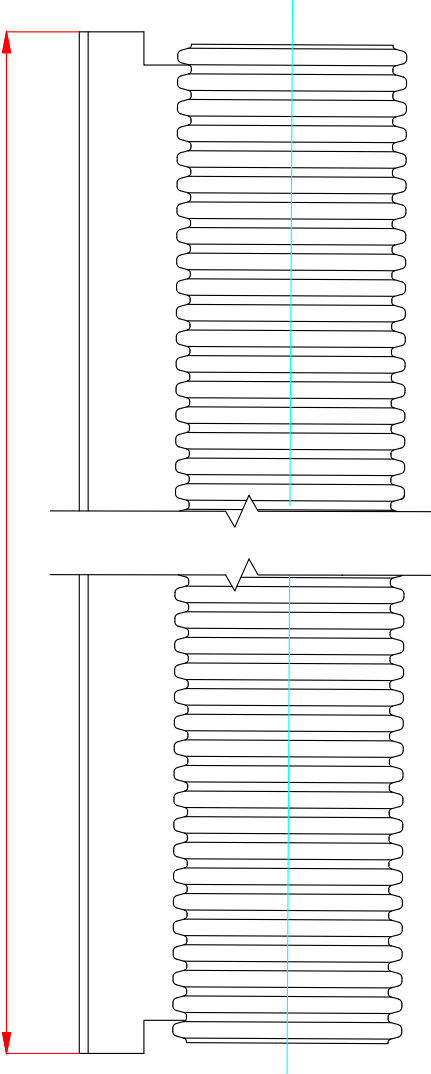


10.0 ft (3.1 m) NOMINAL



PLAN VIEW

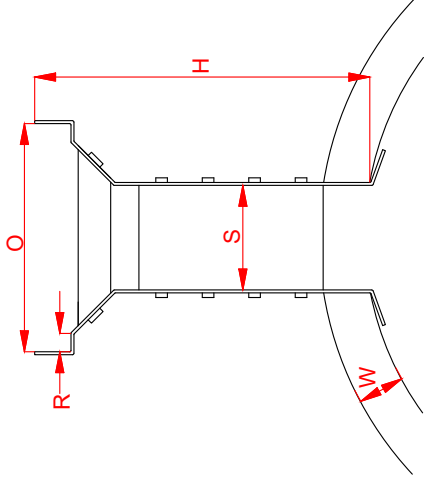
118.5 in (301.0 cm) ACTUAL



PROFILE VIEW

NOTES:

1. SEE GRATING DETAILS FOR SURFACE TREATMENT OPTIONS.
2. ALL DIMENSIONS ARE FOR REFERENCE ONLY.



CROSS SECTION

PIPE Ø, in (mm)	H, in (mm)	W, in (mm)	O, in (mm)	S, in (mm)	R, in (mm)	PRODUCT #
6 (150)	3.00 (76)	0.46 (12)				0620DSXL
6 (150)	6.50 (165)					0660DSXL
8 (200)	3.00 (76)	0.61 (15)				0820DSXL
8 (200)	6.50 (165)					0860DSXL
10 (250)	3.00 (76)	0.73 (19)				1020DSXL
10 (250)	6.50 (165)					1060DSXL
12 (300)	3.50 (89)	1.15 (29)	5.00 (127)	2.25 (57)	0.32 (8)	1220DSXL
12 (300)	7.00 (178)					1260DSXL
15 (375)	7.00 (178)	1.30 (33)				1560DSXL
18 (450)	7.00 (178)	1.57 (40)				1860DSXL
24 (600)	7.25 (184)	1.86 (47)				2460DSXL
30 (750)	8.25 (210)	2.55 (65)				3060DSXL
36 (900)	8.25 (210)	2.85 (72)				3660DSXL

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3	Updated Layers & Logo	KJS	01/09/2025	-	
REV.	DESCRIPTION	BY	MM/DD/YY	CHKD	

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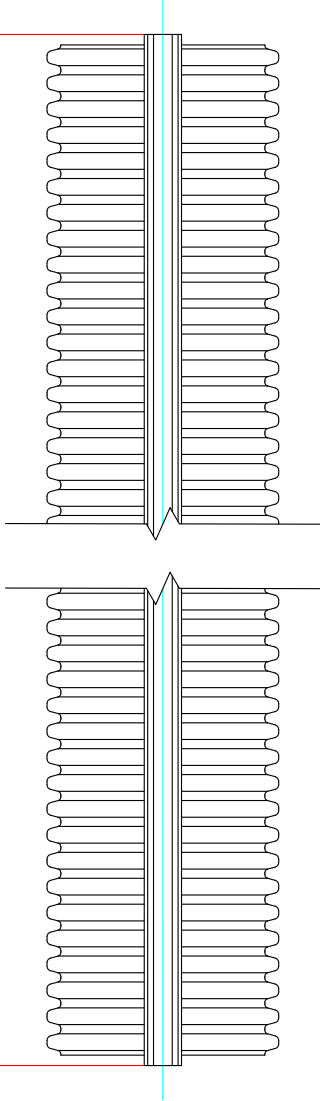
Duraslot XL Pipe
Standard Slot Height



4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

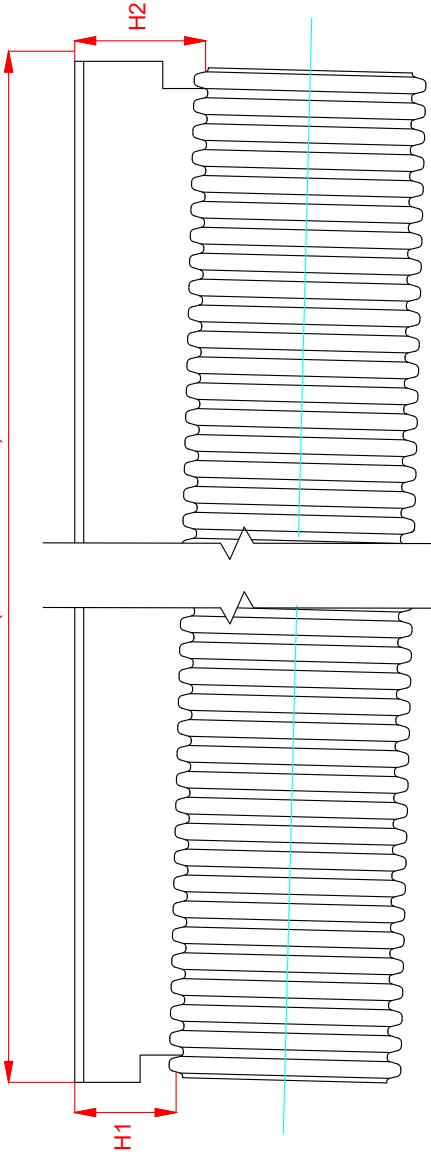
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DATE:	04-18-2023
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SHEET	1 OF 1

3.3 ft - 10.0 ft (1.0 m - 3.1 m) NOMINAL



PLAN VIEW

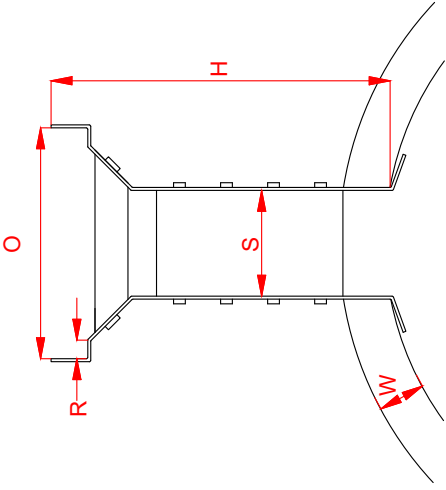
39.5 in - 118.5 in (100 cm - 301 cm) ACTUAL



PROFILE VIEW

NOTES:

1. SEE GRATING DETAILS FOR SURFACE TREATMENT OPTIONS
2. H1 AND H2 VARY BASED ON PROJECT SPECIFICATIONS AND MAY NOT RESEMBLE THE IMAGES SHOWN ABOVE.
3. ALL DIMENSIONS ARE FOR REFERENCE ONLY.



CROSS SECTION

PIPE Ø, in (mm)	H1-H2, in (mm)	W, in (mm)	O, in (mm)	S, in (mm)	R, in (mm)	PRODUCT #
6 (150)	3.00 - 24.00 (76 - 610)	0.46 (13)				0690DSXL
8 (200)	3.00 - 24.00 (76 - 610)	0.61 (15)				0890DSXL
10 (250)	3.00 - 24.00 (76 - 610)	0.73 (19)				1090DSXL
12 (300)	3.50 - 24.00 (89 - 609)	1.15 (29)				1290DSXL
12 (300)	24.01 - 36.00 (610 - 914)					1290SDTXL
15 (375)	3.75 - 24.00 (95 - 609)	1.30 (33)				1590DSXL
15 (375)	24.01 - 36.00 (610 - 914)					1590SDTXL
18 (450)	4.00 - 24.00 (102 - 609)	1.57 (40)	5.00 (127)	2.25 (57)	0.32 (8)	1890DSXL
18 (450)	24.01 - 36.00 (610 - 914)					1890SDTXL
24 (600)	4.25 - 24.00 (121 - 609)	1.86 (47)				2490DSXL
24 (600)	24.01 - 36.00 (610 - 914)					2490SDTXL
30 (750)	5.00 - 24.00 (127 - 609)	2.55 (65)				3090DSXL
30 (750)	24.01 - 36.00 (610 - 914)					3090SDTXL
36 (900)	5.25 - 24.00 (133 - 609)					3690DSXL
36 (900)	24.01 - 36.00 (610 - 914)	2.85 (72)				3690SDTXL

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3	Updated Layers & Logo	KJS	01/09/25	-	CHKD
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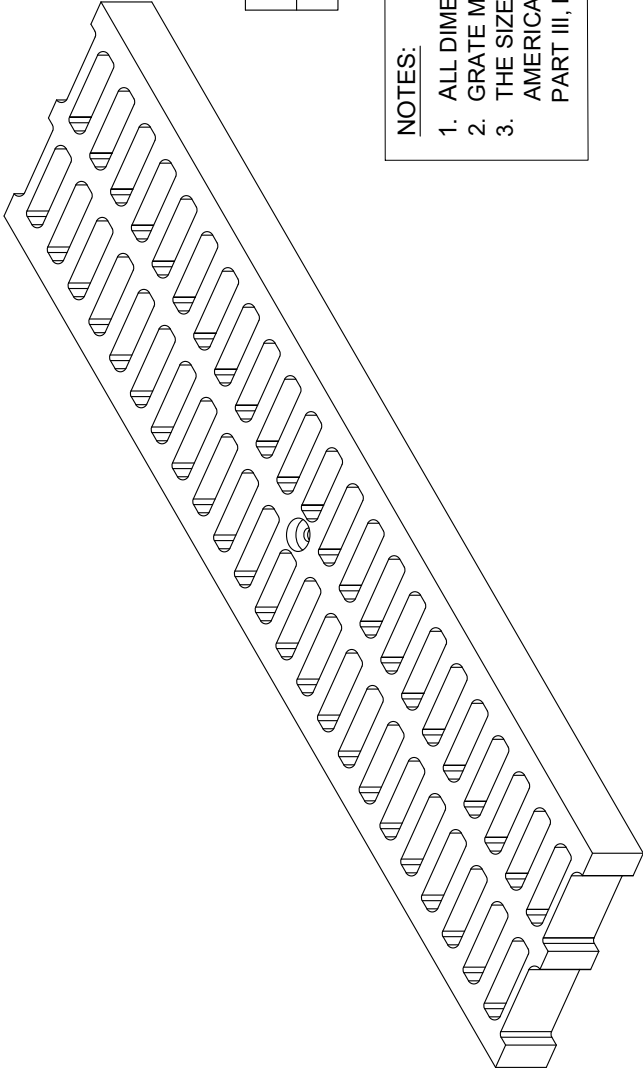
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Duraslot XL Pipe
Custom Slot Height



4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

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DATE:	04-18-2023
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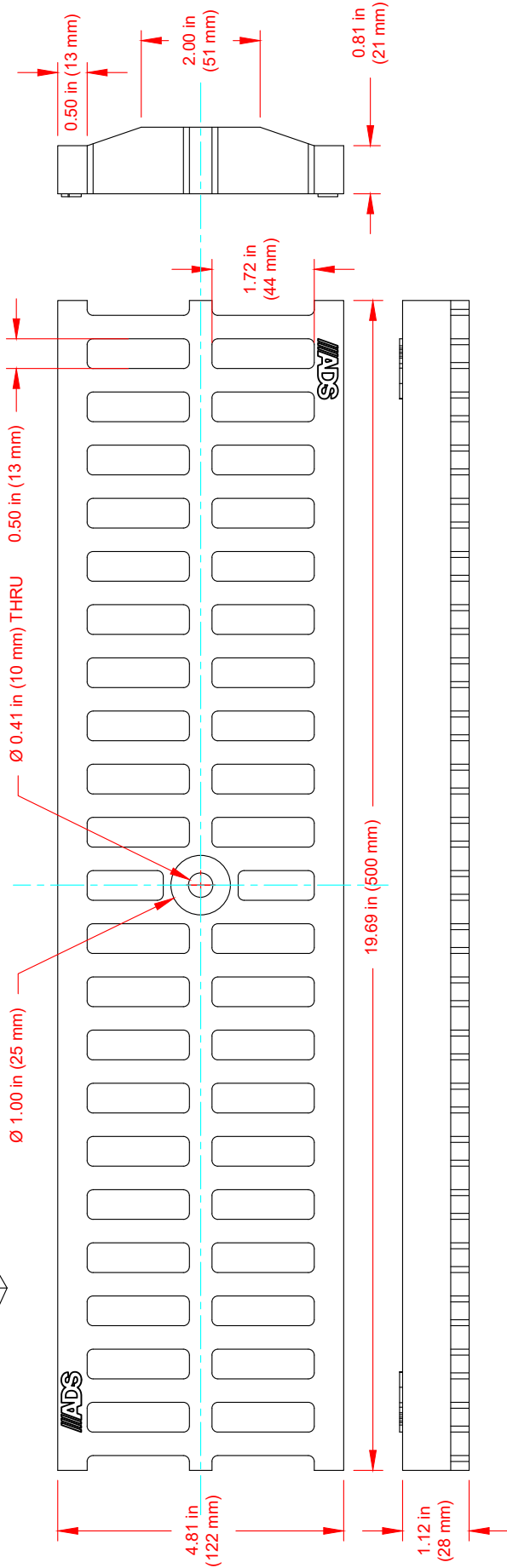


STANDARD GRATE INFORMATION

OPEN AREA, SQ IN (SQ CM)	OPEN AREA, %	PRODUCT #
37.44 (242)	39.5	0520DIS

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY
2. GRATE MEETS HS-25 LOAD RATING PER AASHTO M306-10
3. THE SIZE OF OPENINGS MEET THE REQUIREMENTS OF THE AMERICAN DISABILITY ACT, AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36



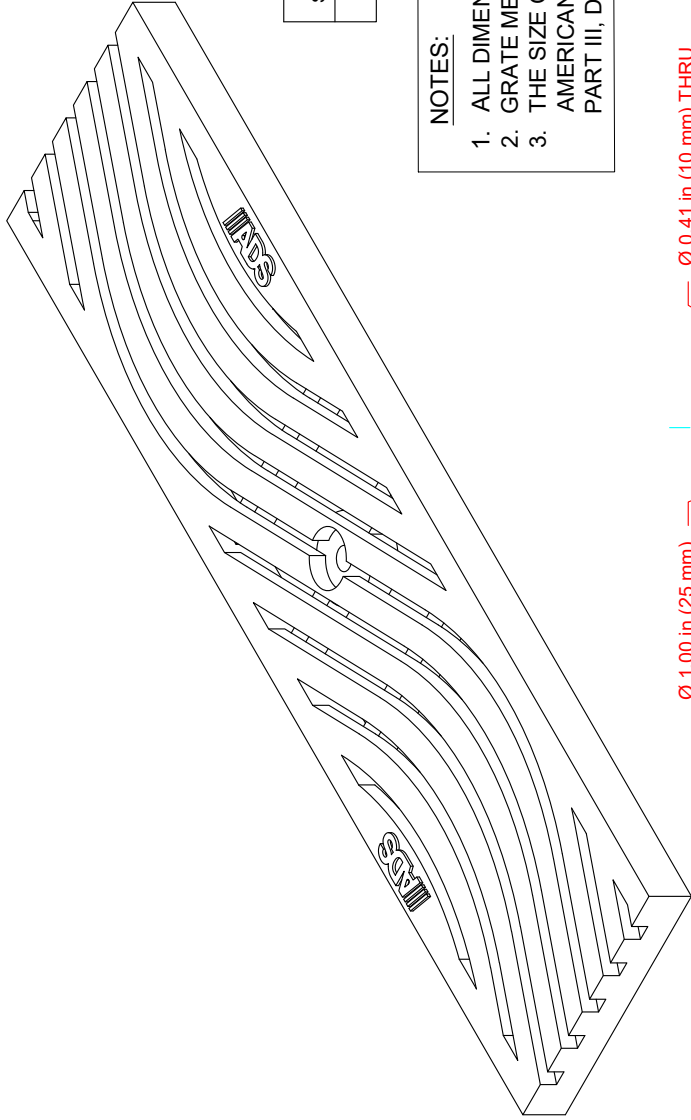
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REV.	Notes Update	K/J/S	BY	MM/DD/YY	CHKD
2				01/30/2025	-

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Duraslot XL Standard Grate	
DRAWING NUMBER:	STD-1451

	
4640 TRUEMAN BLVD HILLIARD, OHIO 43026	
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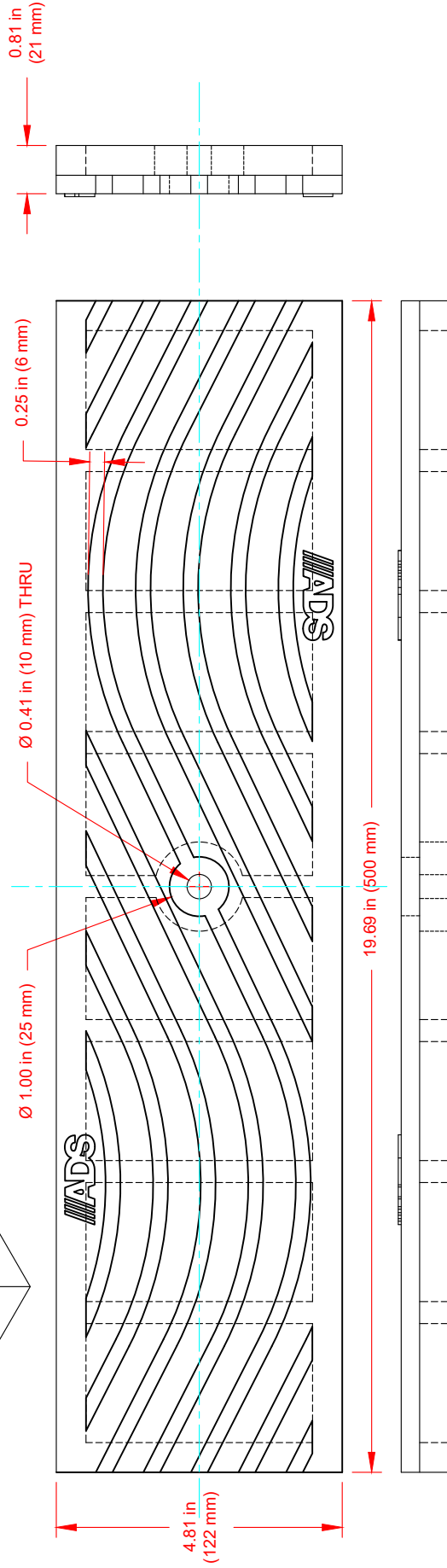


PEDESTRIAN GRATE INFORMATION

OPEN AREA, SQ IN (SQ CM)	OPEN AREA (%)	PRODUCT #
25.50 (165)	26.9	0520DIW

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY
2. GRATE MEETS HS-25 LOAD RATING PER AASHTO M306-10
3. THE SIZE OF OPENINGS MEET THE REQUIREMENTS OF THE AMERICAN DISABILITY ACT, AS STATED IN FEDERAL REGISTER PART III, DEPARTMENT OF JUSTICE, 28 CFR PART 36



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2	Notes Update	KJS	01/30/25	-
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Duraslot XL
Pedestrian Grate



4640 TRUEMAN BLVD
HILLIARD, OHIO 43026

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DATE:	04-18-2023
CAD BY:	-
SCALE:	NTS
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DRAWING NUMBER: STD-1452