

SPECIFICATIONS:

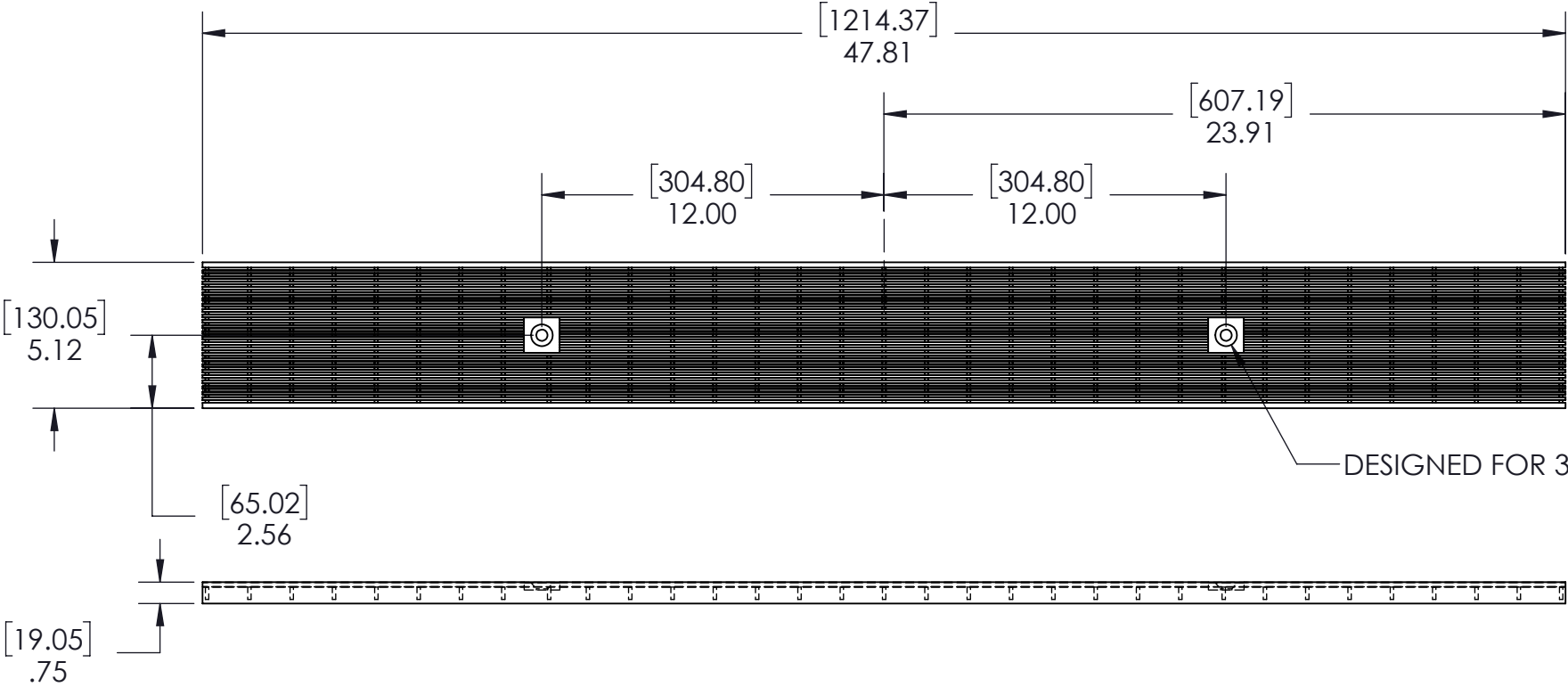
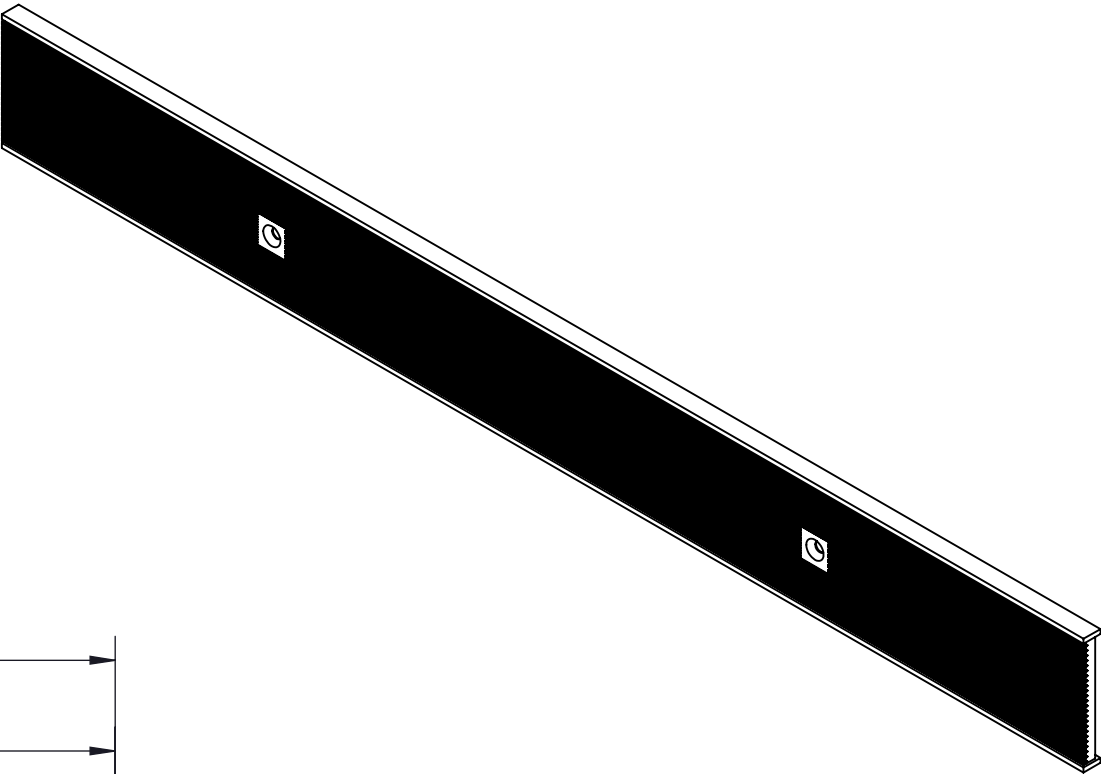
MATERIAL: 316L STAINLESS STEEL

WEDGE WIRE PROFILE: 5MM X 5MM WITH 4.92MM GAP

RATED FOR LOAD CLASS B; LIGHT VEHICLE

DESIGN LOAD RATING: 28,101 LBS PER FT. (125kn)

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DESIGNED FOR 3/8" HARDWARE

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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR: MACH ± BEND ± ONE PLACE DECIMAL ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±
	POLYCAST	PART NO.
	SS500	MATERIAL
	SS600	FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING



TRENCH DRAIN SYSTEMS
PO BOX 377
FREMONT, OH 43420
610-638-1221
www.TrenchDrain.com

DRAWN: CJP		DATE: 4.26.19
CHECKED: NA		
DESCRIPTION: SPECIFICATION SHEET GRATE WEDGE WIRE 316SS CLASS B 5.25 X 48.00 WITH LOCKING DEVICE		
SIZE B	DWG. NO. DG0655	REV A
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1

SPECIFICATIONS:

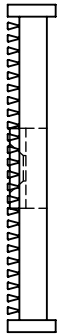
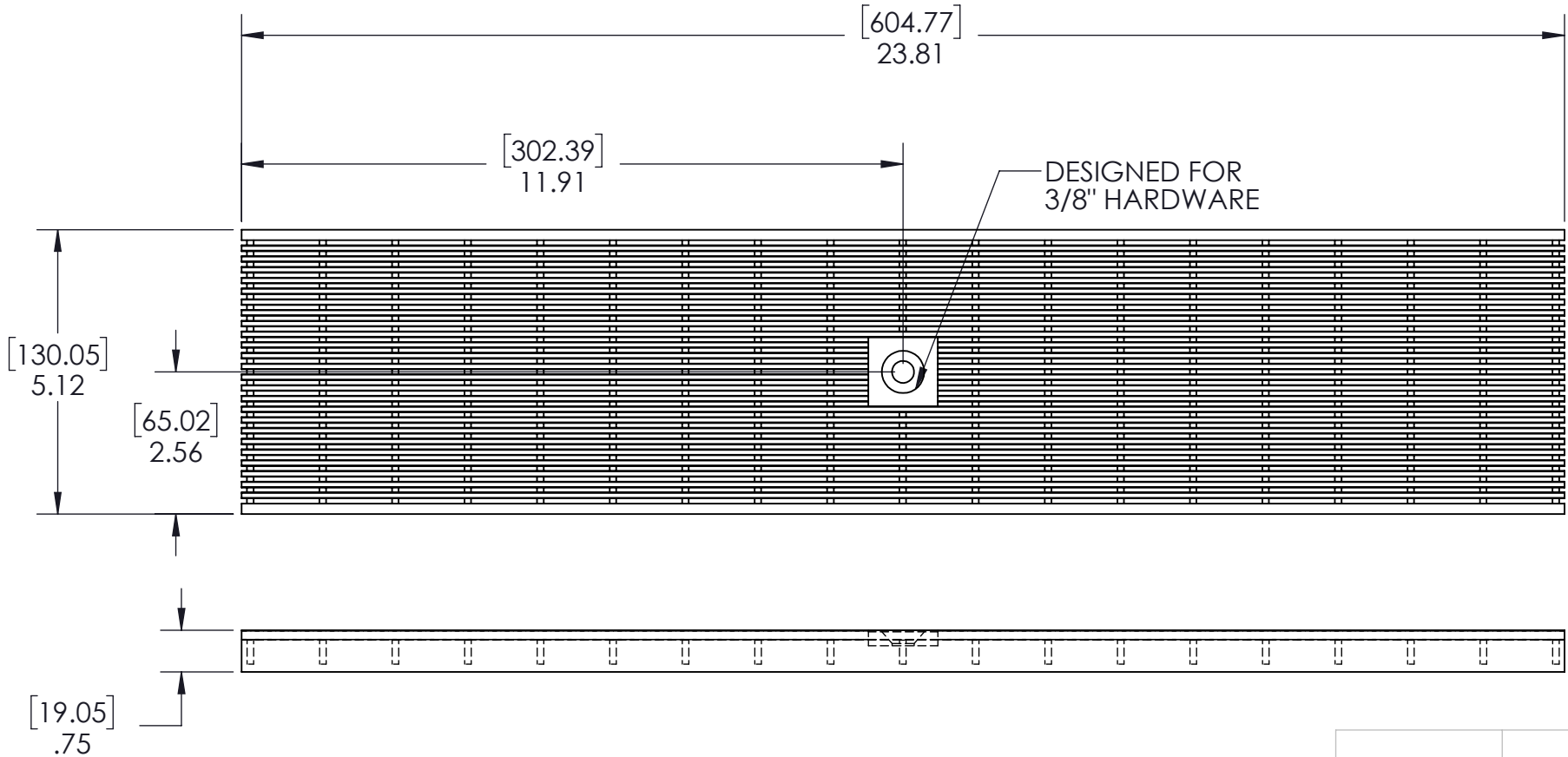
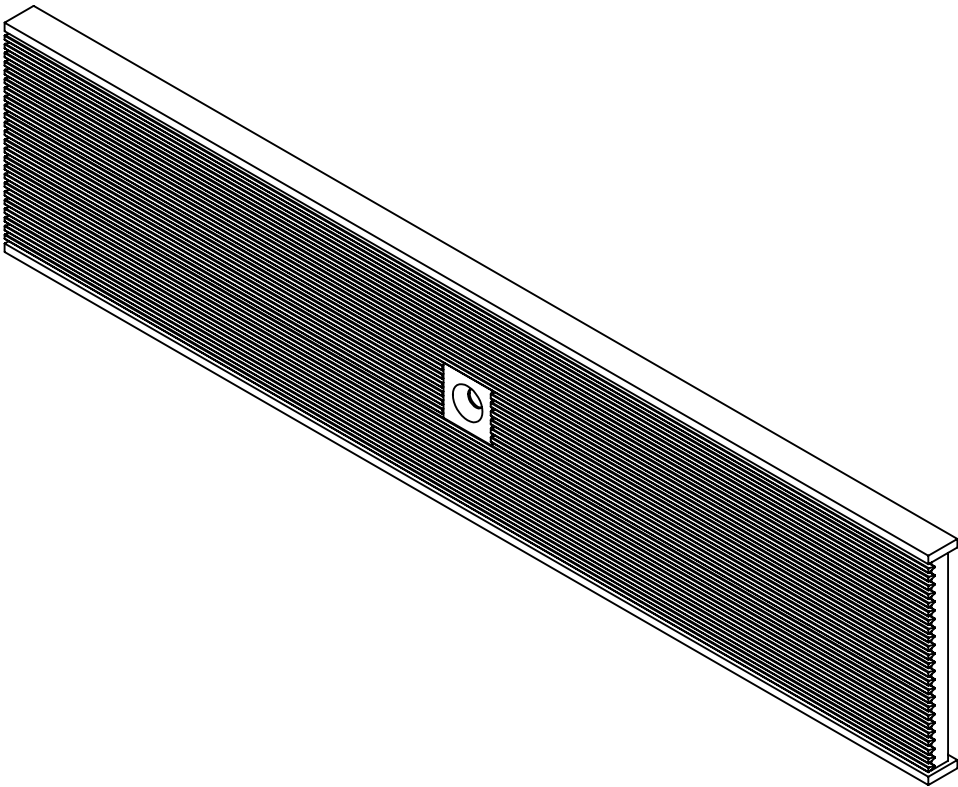
MATERIAL: 316L STAINLESS STEEL

WEDGE WIRE PROFILE: 5MM X 5MM WITH 4.92MM GAP

RATED FOR LOAD CLASS B; LIGHT VEHICLE

DESIGN LOAD RATING: 28,101 LBS PER FT. (125kn)

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		TWO PLACE DECIMAL ±
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	SS500	PART NO.
	SS600	MATERIAL
	POLYCAST	FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING



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DRAWN: CJP		DATE: 4.26.19
CHECKED: NA		
DESCRIPTION: SPECIFICATION SHEET GRATE WEDGE WIRE 316SS CLASS B 5.25 X 24.00 W/LOCKING DEVICE		
SIZE B	DWG. NO. DG0655H	REV A
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1

SPECIFICATIONS:

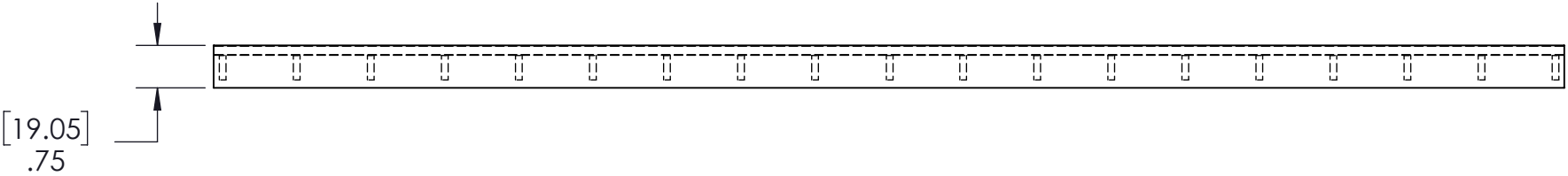
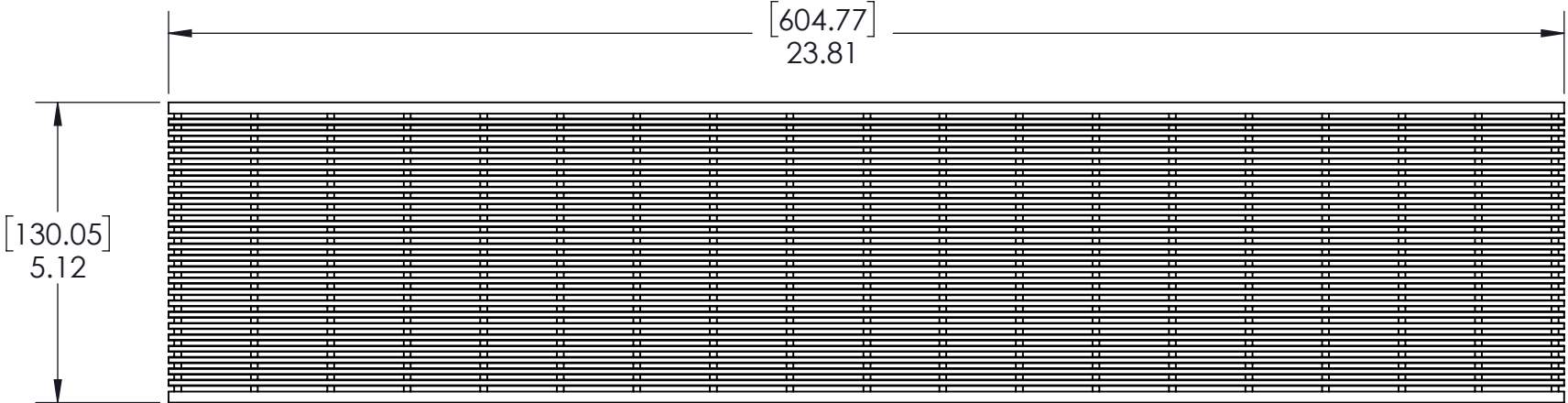
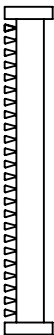
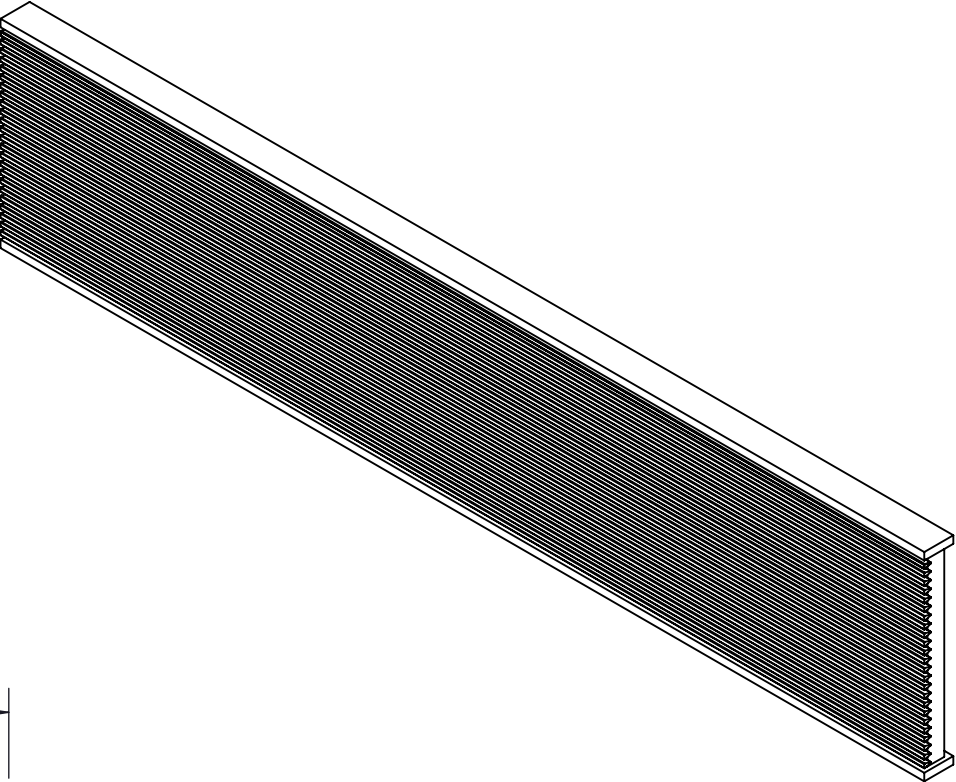
MATERIAL: 316L STAINLESS STEEL

WEDGE WIRE PROFILE: 5MM X 5MM WITH 4.92MM GAP

RATED FOR LOAD CLASS B; LIGHT VEHICLE

DESIGN LOAD RATING: 28,101 LBS PER FT. (125kn)

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		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
	SS500	PART NO.
	SS600	MATERIAL
	POLYCAST	FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING



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PO BOX 377
FREMONT, OH 43420
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www.TrenchDrain.com

DRAWN: CJP		DATE: 4.26.19
CHECKED: NA		
DESCRIPTION: SPECIFICATION SHEET GRATE WEDGE WIRE 316SS CLASS B 5.25 X 24.00 WITHOUT LOCKING DEVICE		
SIZE	DWG. NO.	REV
B	DG0655H-SPA	C
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1

SPECIFICATIONS:

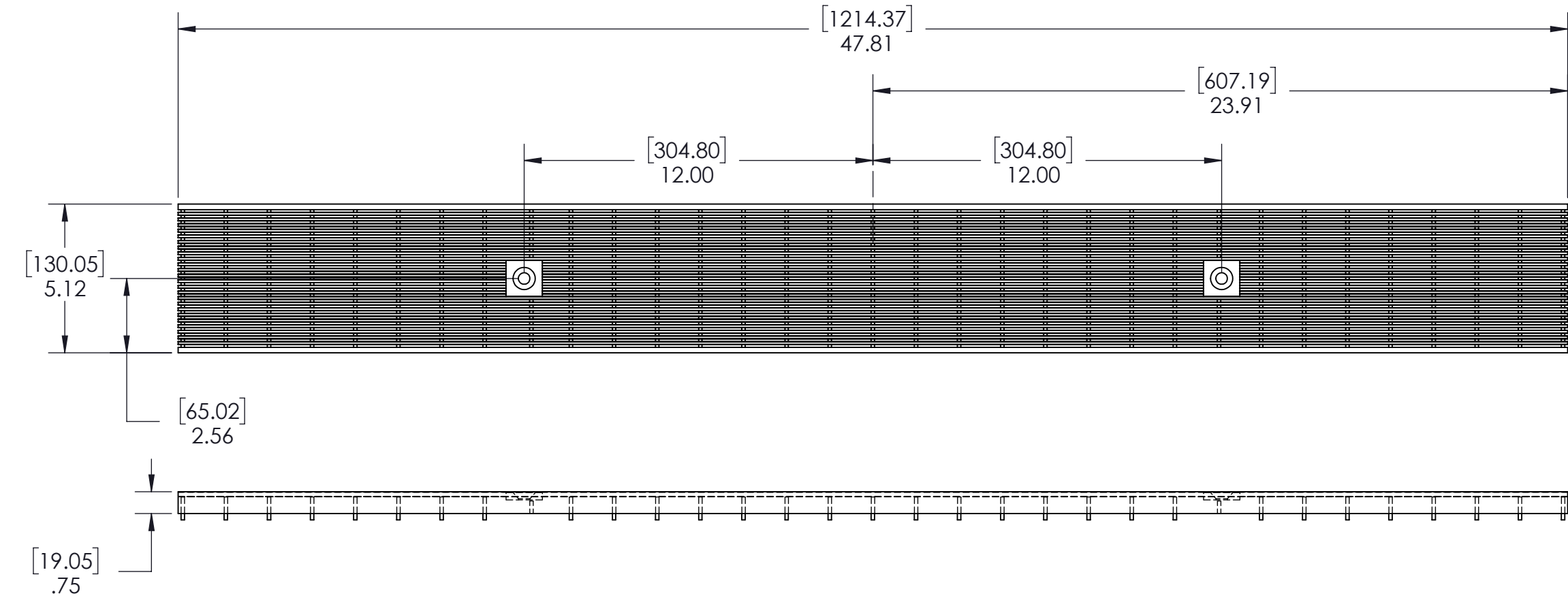
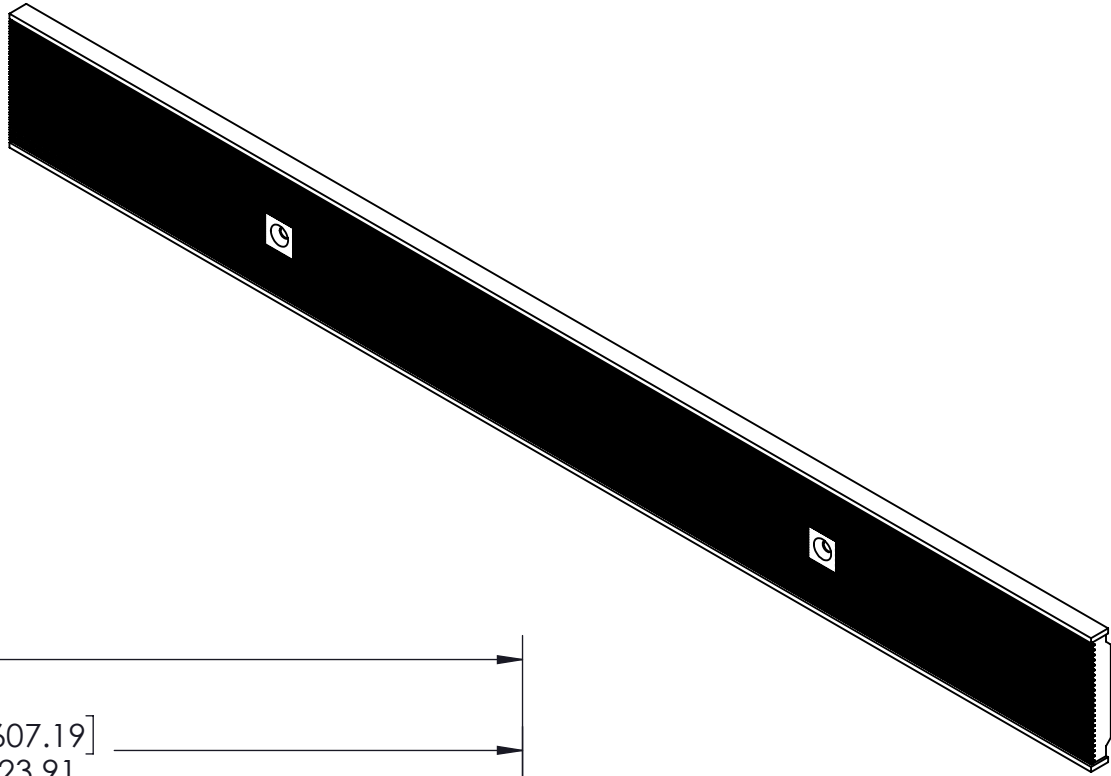
MATERIAL: 316L STAINLESS STEEL

WEDGE WIRE PROFILE: 5MM X 5MM WITH 4.92MM GAP

RATED FOR LOAD CLASS D; PNEUMATIC FORKLIFT

DESIGN LOAD RATING: 89,924 LBS PER FT. (400kn)

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		THREE PLACE DECIMAL ±
	POLYCAST	PART NO.
	SS500	MATERIAL
	SS600	FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING



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PO BOX 377
FREMONT, OH 43420
610-638-1221
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DRAWN: CJP		DATE: 4.26.19
CHECKED: NA		
DESCRIPTION: SPECIFCIATION SHEET GRATE WEDGE WIRE 316SS CLASS D 5.25 X 48.00 WITH LOCKING DEVICE		
SIZE B	DWG. NO. DG0655R	REV A
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1

SPECIFICATIONS:

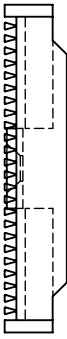
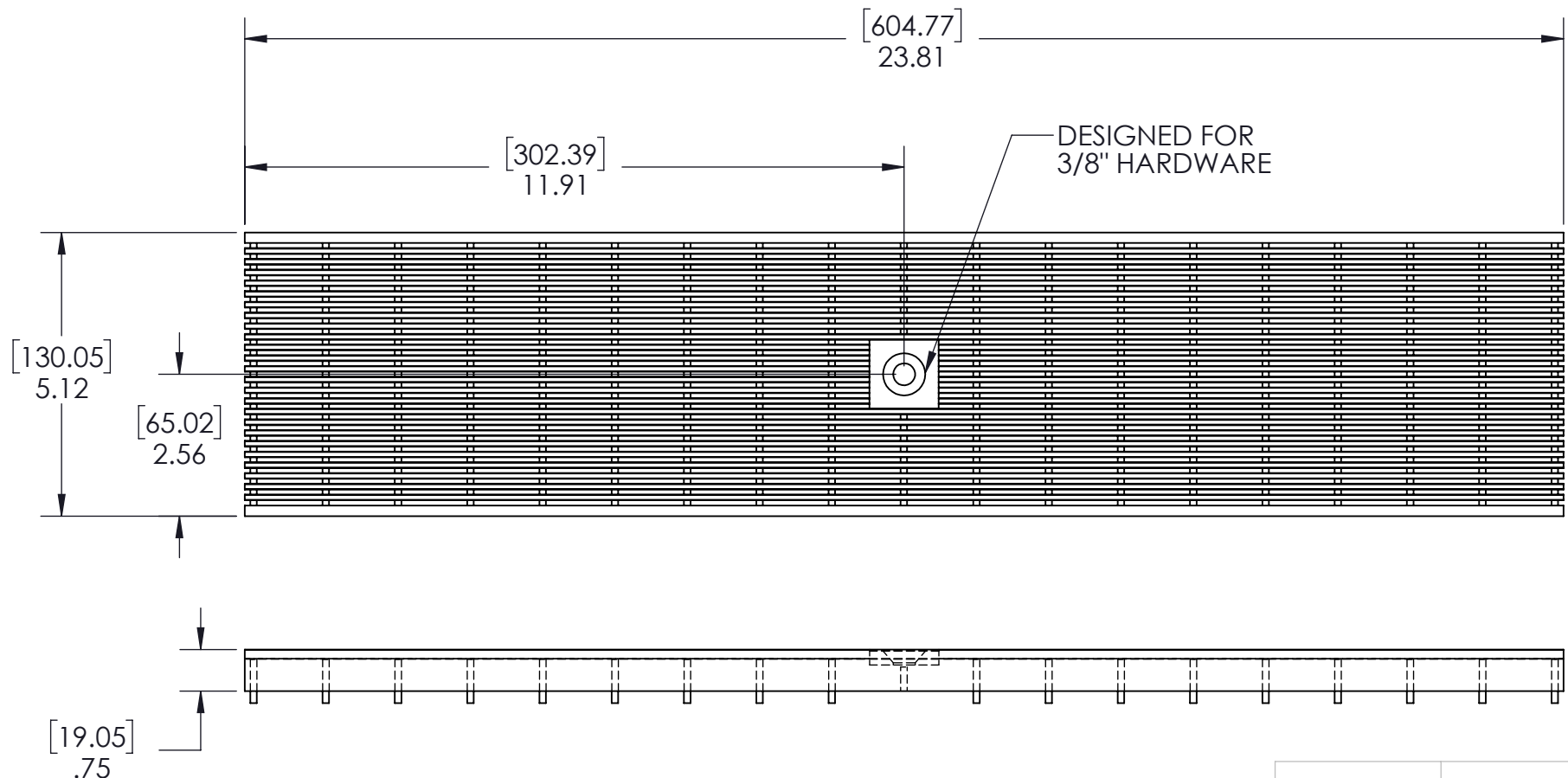
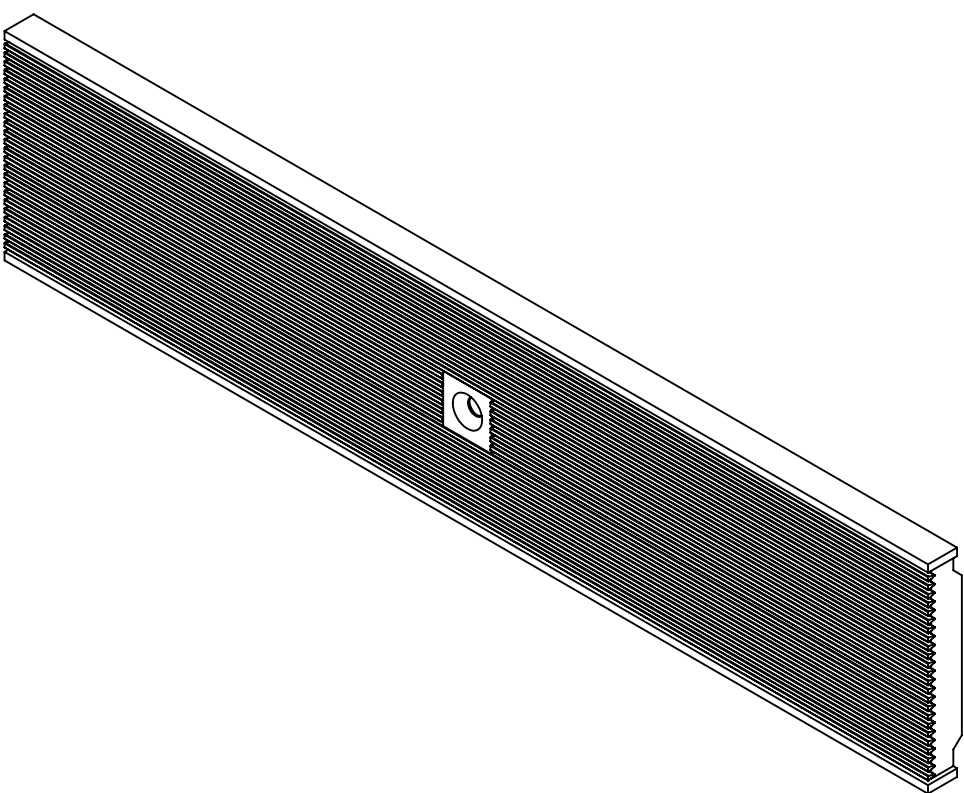
MATERIAL: 316L STAINLESS STEEL

WEDGE WIRE PROFILE: 5MM X 5MM WITH 4.92MM GAP

RATED FOR LOAD CLASS D; PNEUMATIC FORKLIFT

DESIGN LOAD RATING: 89,924 LBS PER FT. (400kn)

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		PART NO.
		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING



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610-638-1221
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DRAWN: CJP		DATE: 4.26.19
CHECKED: NA		
DESCRIPTION: SPECIFICATION SHEET GRATE WEDGE WIRE 316SS CLASS D 5.25 X 24.00 W/LOCKING DEVICE		
SIZE B	DWG. NO. DG0655RH	REV A
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1

4

3

2

1

SPECIFICATIONS:

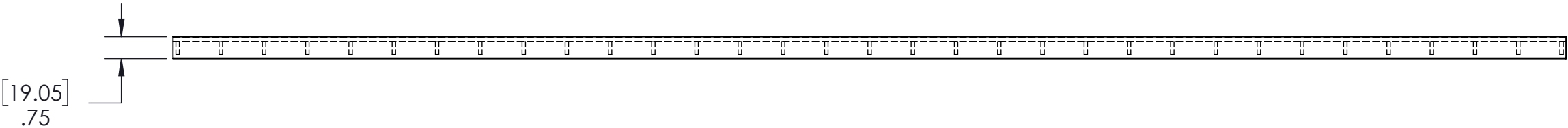
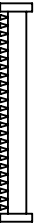
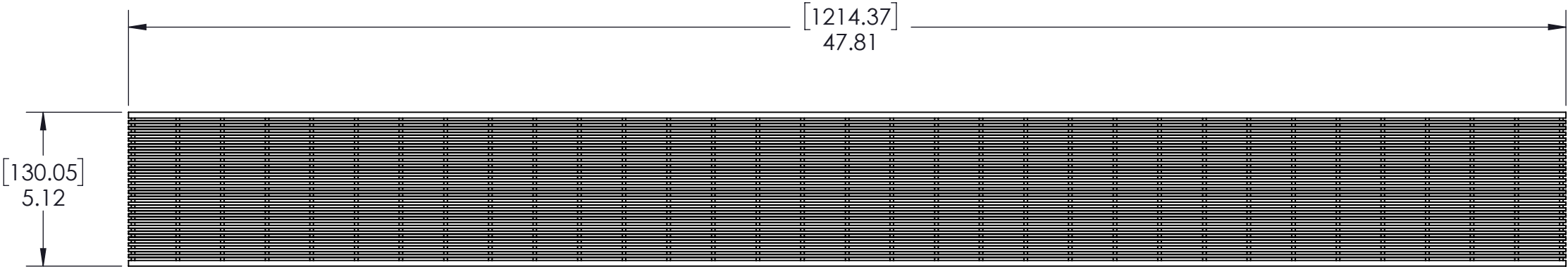
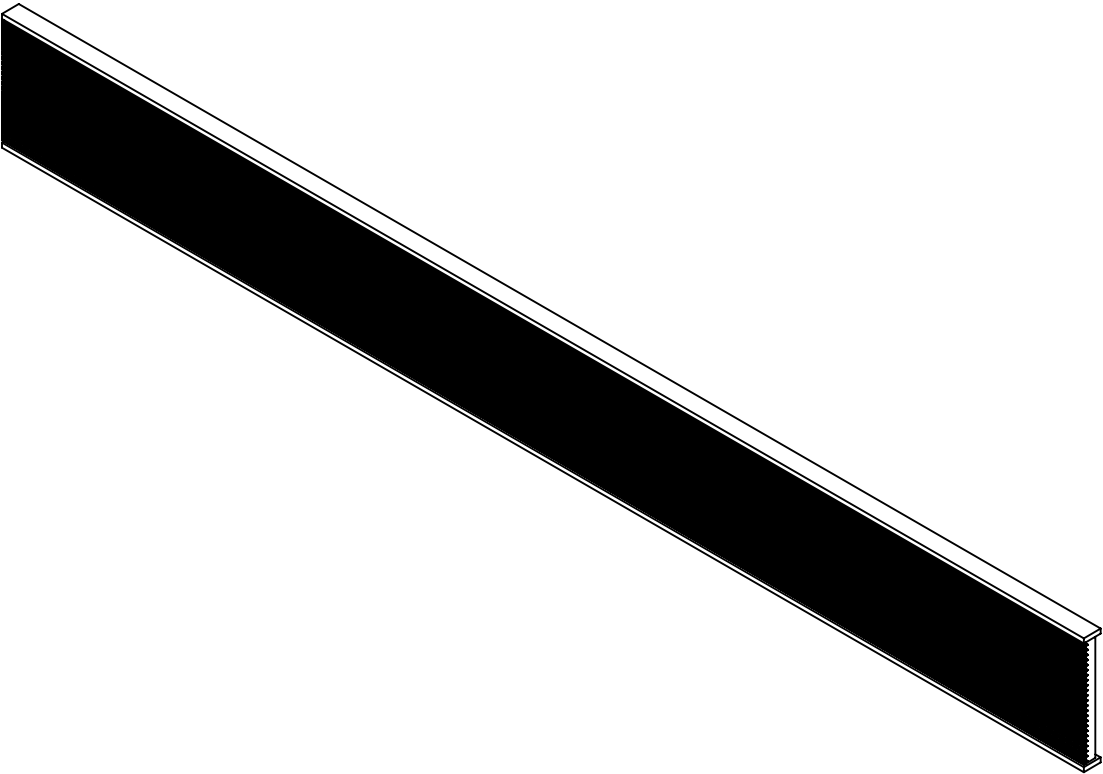
MATERIAL: 316L STAINLESS STEEL

WEDGE WIRE PROFILE: 5MM X 5MM WITH 4.92MM GAP

RATED FOR LOAD CLASS B; LIGHT VEHICLE

DESIGN LOAD RATING: 28,101 LBS PER FT. (125kn)

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		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
	SS500	PART NO.
	SS600	MATERIAL
	POLYCAST	FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING



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www.TrenchDrain.com

DRAWN: CJP		DATE: 4.26.19
CHECKED: NA		
DESCRIPTION: SPECIFICATION SHEET GRATE WEDGE WIRE 316SS CLASS B 5.25 X 48.00 WITHOUT LOCKING DEVICE		
SIZE B	DWG. NO. DG0655-SPA	REV A
SCALE: 1:8	WEIGHT:	SHEET 1 OF 1

4

3

2

1

B

B

A

A



DG0692

Ductile Iron Decorative Grate

The PATRIOT

Grate

Description

Material: ASTM A536 GR.65-45-12
DUCTILE IRON

Paint: FLAT BLACK

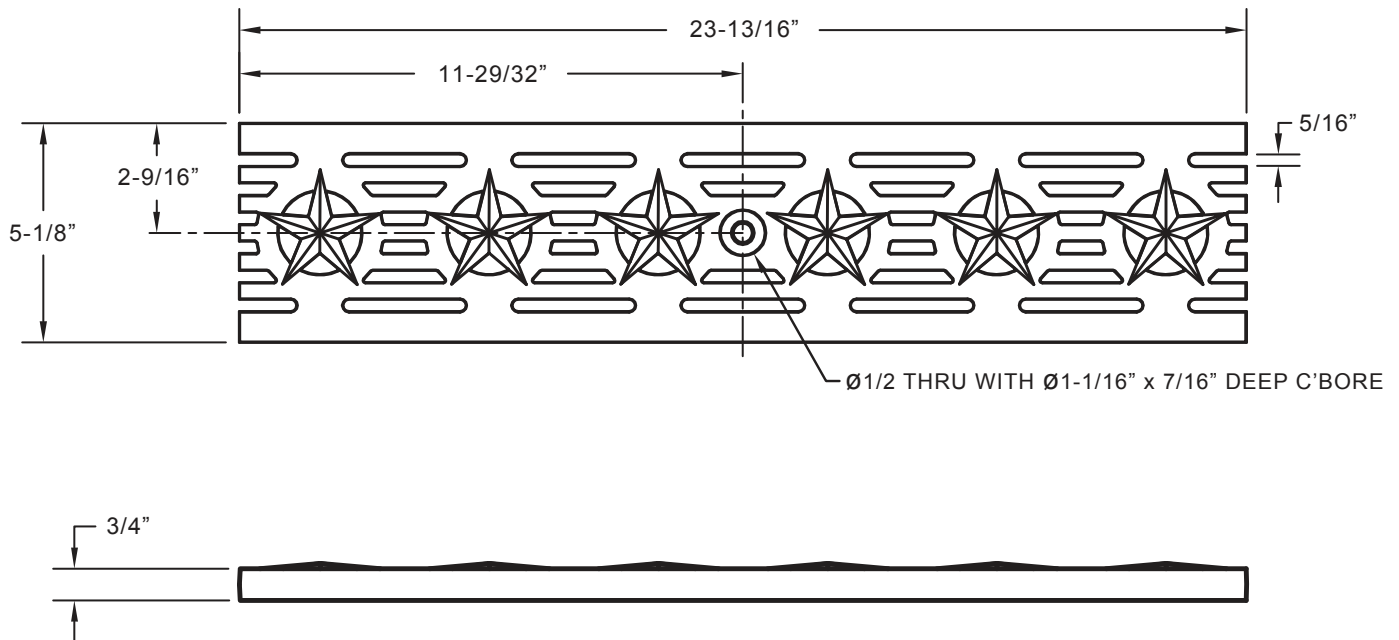
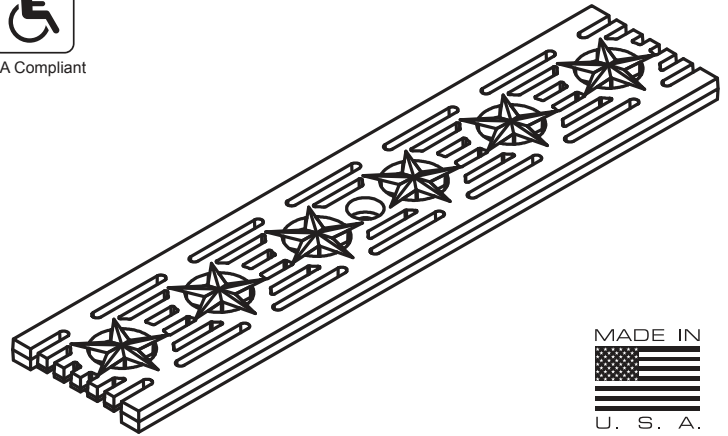
Open Area: 26in² (21%)

Load: DIN Class C

ADA Compliant



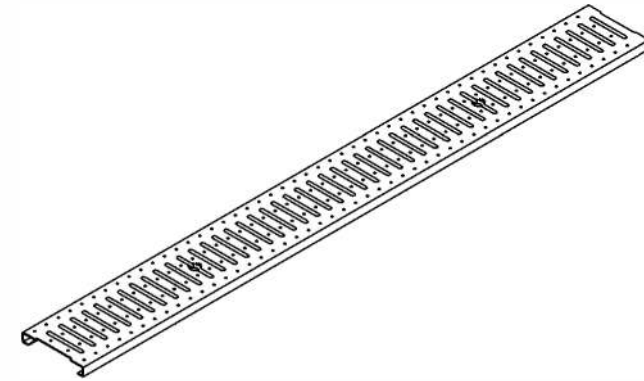
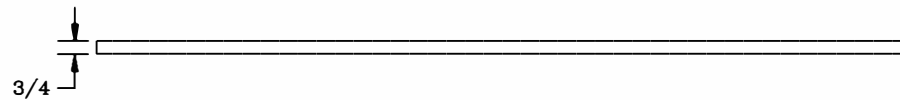
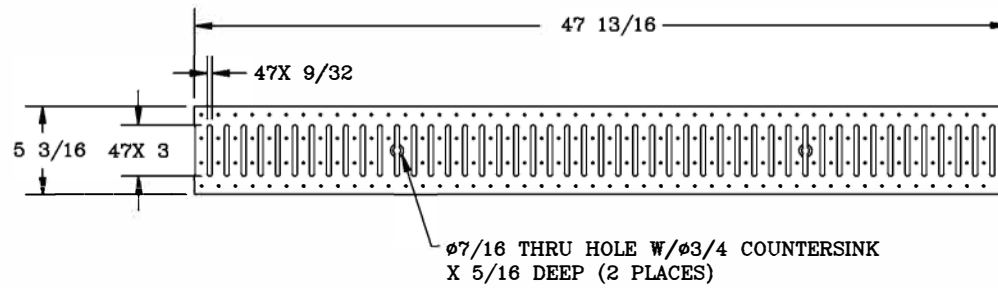
ADA Compliant



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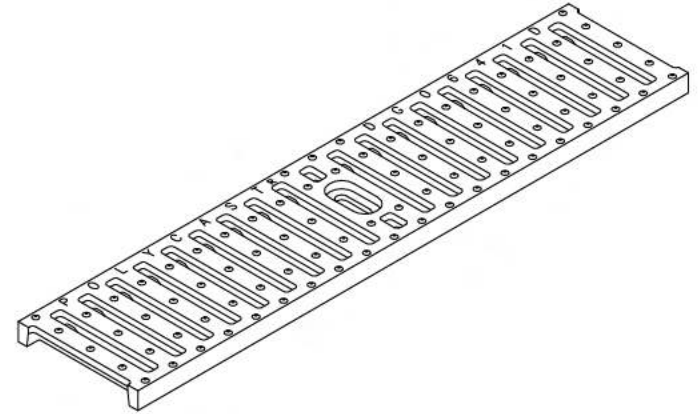
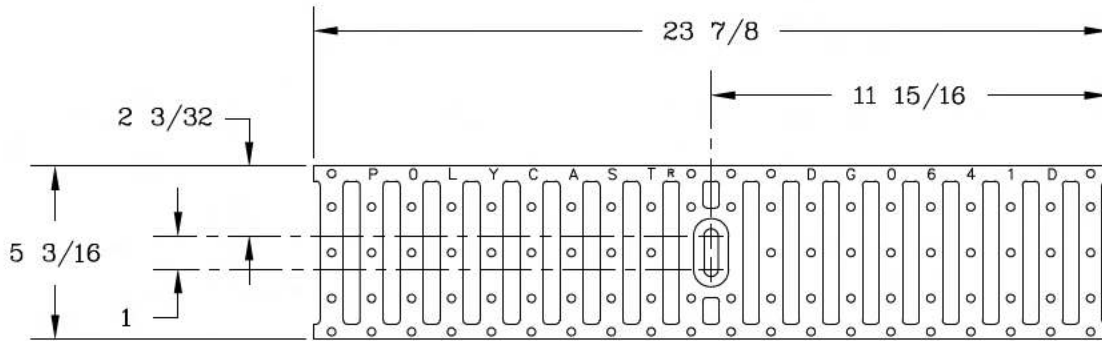
TDS-43
4-2018



NOTES:

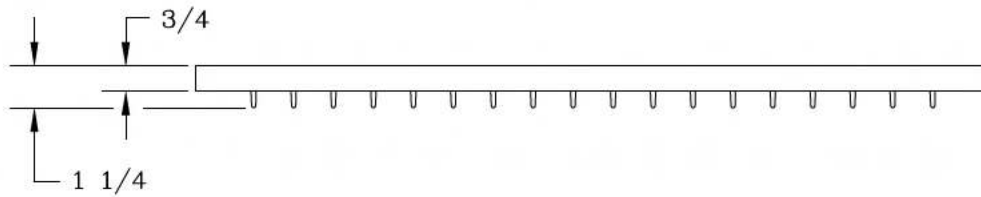
1. MATERIAL: HOT DIPPED GALVANIZED 14 GAUGE ASTM A36 STEEL OR EQUIVALENT.
2. THIS GRATE HAS 20% (41 IN²) OF OPEN AREA.
3. THIS GRATE IS RATED FOR APPLICATION LOAD CLASS B.


ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED						
DSN	BY	DATE	WEIGHT	 3621 INDUSTRIAL PARK DR LENOIR CITY, TN 37771 865 986-9726	LOC	
DRN	WRJ	8/30/89	8#		HQ	S
CHK	MSF	8/30/89	SCALE		REV	
ENG	MSF	8/30/89	1/2"=1'		B	
APR	MSF	8/30/89	DRAWING TITLE			3/08
JOB NUMBER			SIZE	POLYCAST [®] GALVANIZED SLOTTED GRATE		
89281			B			
SHEET 1 OF 1				DRAWING NUMBER DG0640		



NOTES:

1. MATERIAL: ASTM A536 GR.65-45-12 DUCTILE IRON
PAINT: HIGH BUILD EPOXY COAL TAR
2. THIS GRATE HAS 39% OPEN AREA AND 42 SQUARE INCHES OF OPEN AREA.
3. THIS GRATE IS DESIGNED FOR VEHICLES WITH PNEUMATIC TIRES, AXLE LOADS NOT EXCEEDING 32,000 LBS. AND SPEEDS LESS THAN 20 MPH.



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED					
DSN	BY	DATE	WEIGHT	 HUBBELL 3621 INDUSTRIAL PARK DR LENOIR CITY, TN 37771 865 986-9726	LOC
DRN	WRJ	3/27/90	13#		HQ
CHK	MSF	3/27/90	SCALE		S
ENG	MSF	3/27/90	3"=1'		REV
APR	MSF	3/27/90	SIZE		B
APR			B	POLYCAST [®] DUCTILE IRON GRATE	
JOB NUMBER			DRAWING NUMBER		6/90
90151			SHEET 1 OF 1		DG0641D

POLYCAST[®]

DG0641S

600 Series

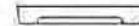
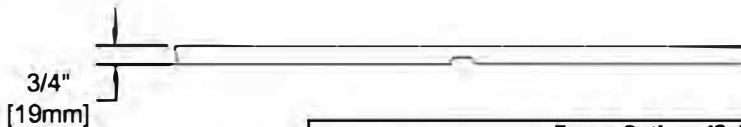
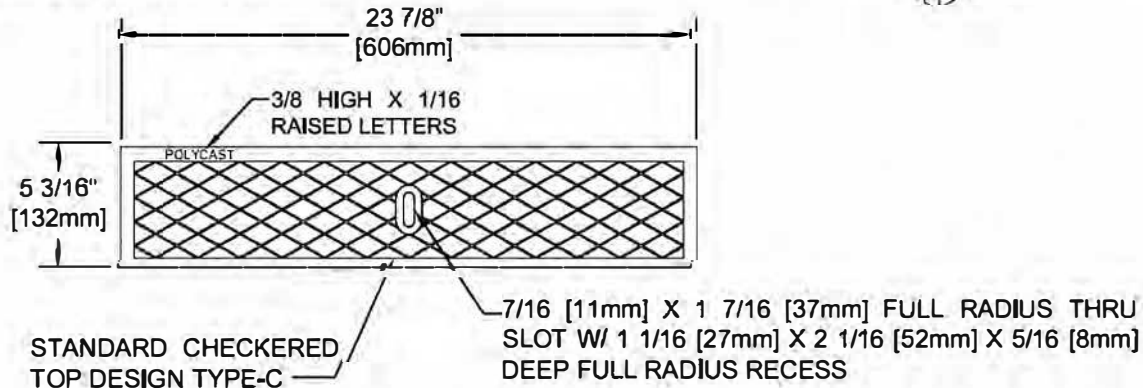
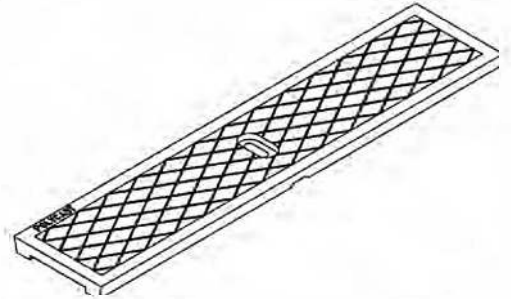
Ductile Iron Solid

PROJECT ID/ CONTRACT NO: _____

LOCATION: _____

ENGINEERING SPECIFICATION:

POLYCAST[®] DG0641S is appropriate for many general use conditions. Grating locking device Part No. DA0642B (not shown) should be used and maintained secure. The grate has 39% (40in²) of open area. The grate is made of ASTM A536 GR. 65-45-12 (ductile iron) and weighs approximately 18lbs [8.16kg]. The grate is only available in a 24" [610mm] length. The grate meets Load Class D when used alone in a 600 Series channel. If grate is used in conjunction with a DG0970 frame it meets Load Class F, a DG0700AA frame then meets Load Class F and a DG0700PE Frame it meets Load Class E.



Frame Options (Select One)			
Grate Type		Part No.	Load Class
<input type="checkbox"/> DURAGUARD [®] Composite Frame		DG0700PE	Class E
<input type="checkbox"/> HARDNOSE Iron Frame		DG0700AA	Class F
<input type="checkbox"/> Iron Frame (w/4 anchoring rods)		DG0970	Class F
Options (Select All That Apply)		Part No.	Additional Specifications:
<input type="checkbox"/> HARDNOSE Locking Device		DA0642B	
<input type="checkbox"/> DURAGUARD [®] Locking Device		DA0642BH	
<input type="checkbox"/> Stainless Steel Locking Device		DA0642BHS	
<input type="checkbox"/> Locking Device		DA0942	
<input type="checkbox"/> Stainless Steel Locking Device		DA0942S	



APPLICATION LOAD CLASS D:

Highway vehicles, commercial aircraft and low to moderate speeds (parking areas, driveways and warehouses). Designed for a distributed pressure of 450psi (64,800psf). ADA compliant for accessible routes.

MEETS THE FOLLOWING STANDARDS & SPECIFICATIONS:

- Federal Aviation Administration (FAA) Advisory Circular Airport Pavement Design and Evaluation (AC 150/5320-6D Appendix 3 Design of Structures for Heavy Aircraft)
- AASHTO Highway Drainage Guidelines
- AASHTO Standard Specification for Highway Bridges



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PC-43
10/22/2008

POLYCAST®

DG0644

600 Series

Fiberglass

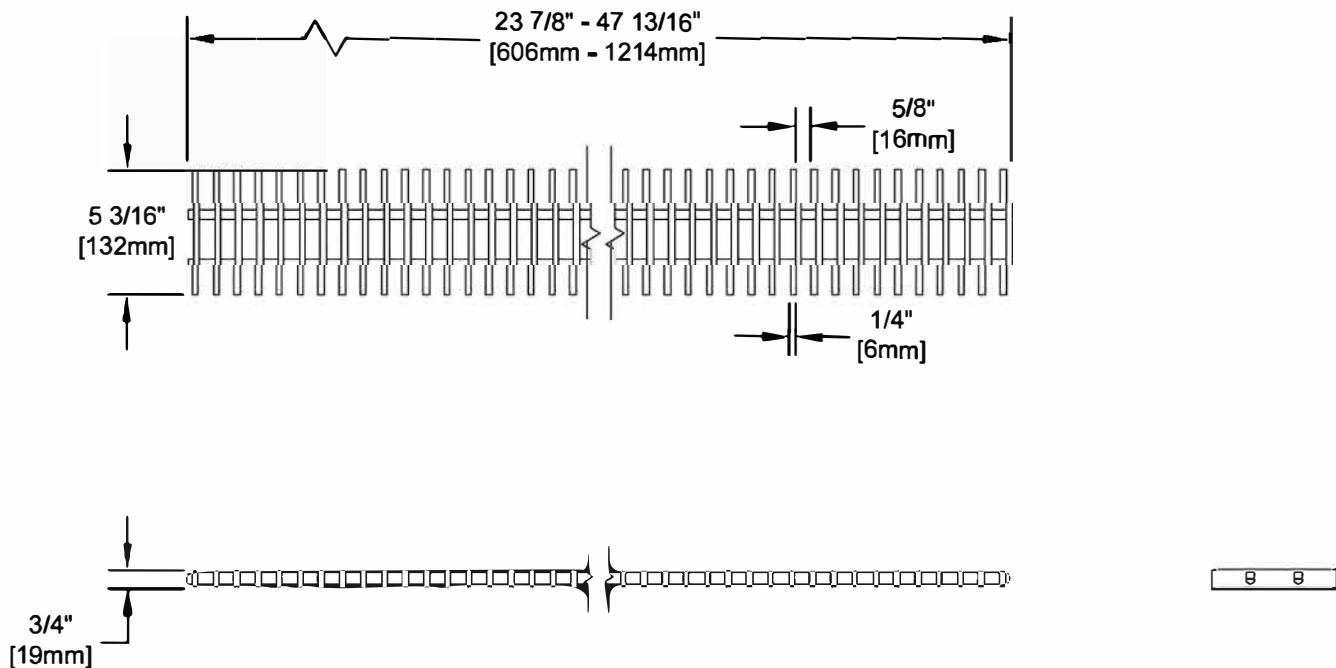
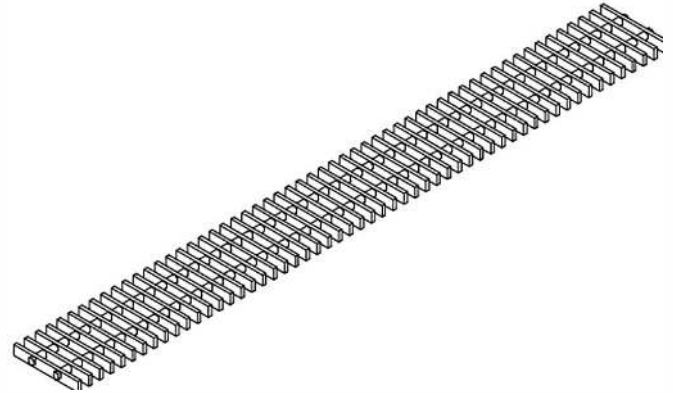
PROJECT ID/

CONTRACT NO: _____

LOCATION: _____

ENGINEERING SPECIFICATION:

POLYCAST® DG0644 Grate is designed for use with POLYCAST® Vinyl Ester trench in areas requiring extreme chemical resistance. The clear opening between the bars is 5/8" [16mm]. Grating locking device Part No. DA0642F (not shown) should be used and maintained secure. The grate has 46% (114 in²) of open area. The grate weighs approximately 5lbs [2.27kg] and is available in both 24" [610mm] and 48" [1219mm] lengths.



APPLICATION LOAD CLASS C:

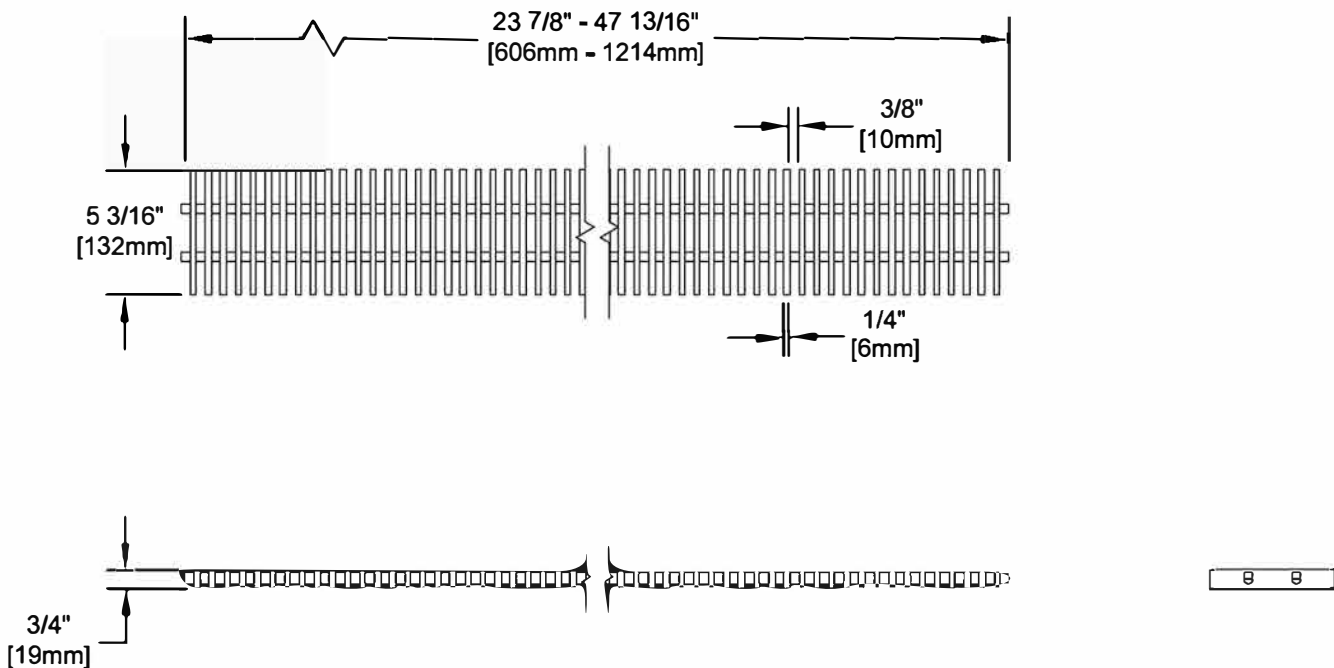
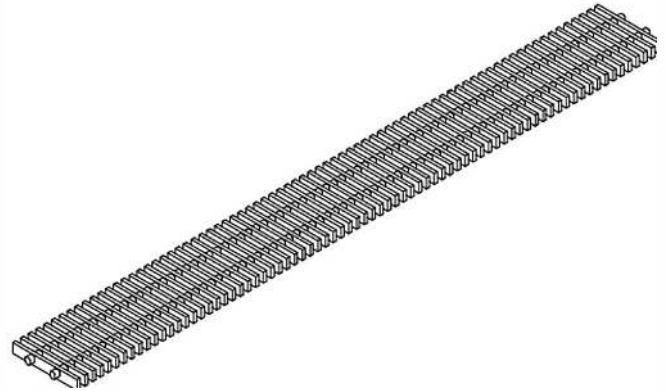
Pneumatic tire vehicles, highway vehicles and low to moderate speeds (parking areas and driveways). Designed for a distributed pressure of 260psf (37,440psf).



www.TrenchDrain.com
PO Box 377 • Fremont, OH 43420 • USA
(610) 638-1221

ENGINEERING SPECIFICATION:

POLYCAST[®] DG0644SP Grate is designed for use with POLYCAST[®] Vinyl Ester trench in areas requiring extreme chemical resistance. The clear opening between the bars is 3/8" [10mm]. Grating locking device Part No. DA0642F (not shown) should be used and maintained secure. The grate has 39% (96 in²) of open area. The grate weighs approximately 6lbs [2.72kg] and is available in both 24" [610mm] and 48" [1219mm] lengths.



APPLICATION LOAD CLASS C:

Pneumatic tire vehicles, highway vehicles and low to moderate speeds (parking areas and driveways). Designed for a distributed pressure of 260psf (37,440psf).



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POLYCAST[®]

DG0645

600 Series

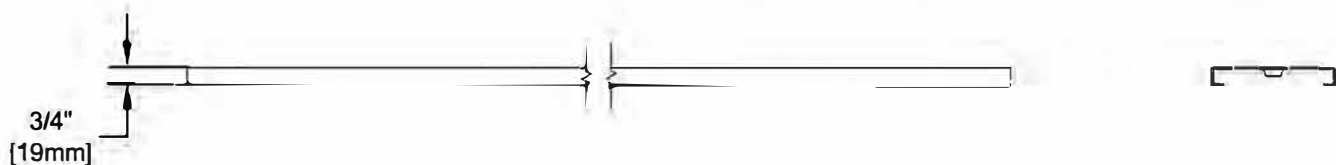
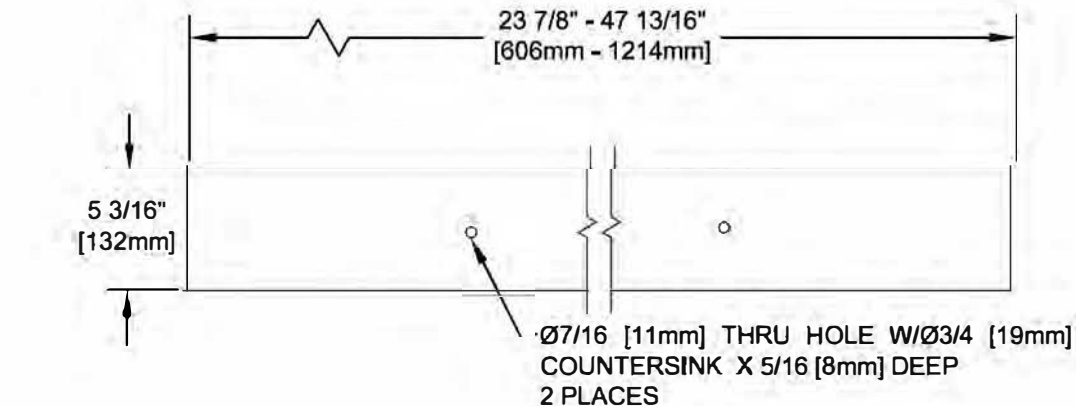
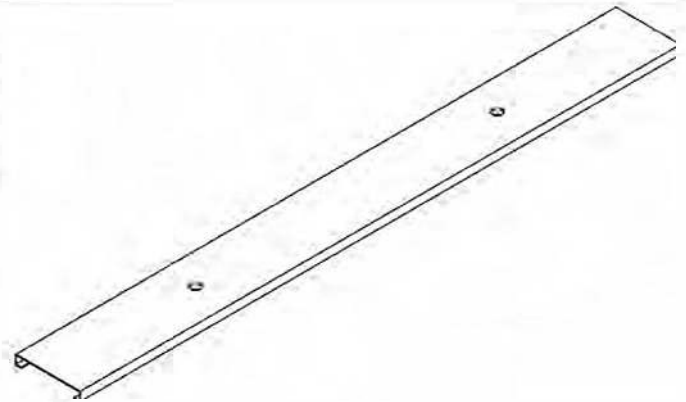
Galvanized Steel Solid

PROJECT ID/ CONTRACT NO: _____

LOCATION: _____

ENGINEERING SPECIFICATION:

POLYCAST[®] DG0645 Grate is designed for pipe runs, e.g. secondary containment or cable runs. Removable cover allows full access. Grating locking device Part No. DA0642 (not shown) should be used and maintained secure. The grate weighs approximately 8lbs [3.6kg] and is available in both 24" [610mm] and 48" [1219mm] lengths.

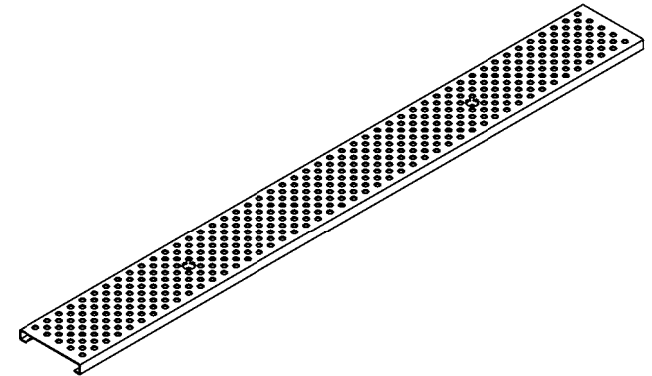
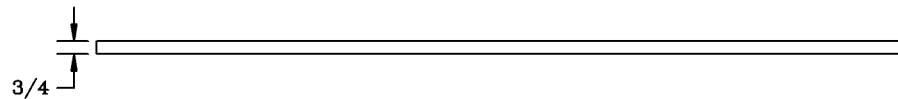
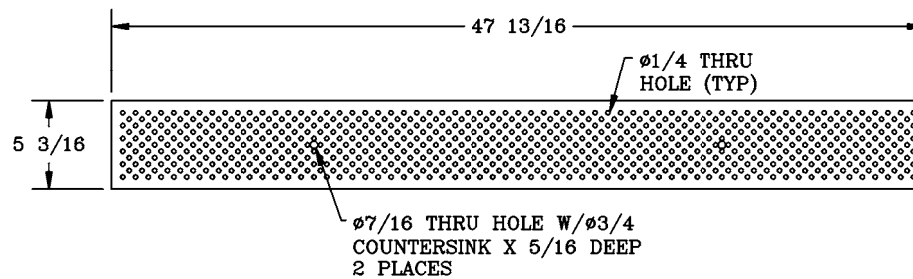


APPLICATION LOAD CLASS A:

Pedestrian, bicycles and golf carts. Designed for a distributed pressure of 2psi (300psf). ADA compliant for accessible routes. Meets ASTM C-857.




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NOTES:

1. MATERIAL: HOT DIPPED GALVANIZED 14 GAUGE ASTM A36 STEEL OR EQUIVALENT.
2. THIS GRATE HAS 17% (34 IN²) OPEN AREA.
3. THIS GRATE IS RATED FOR APPLICATION LOAD CLASS A.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED						
DSN	BY	DATE	WEIGHT	 3621 INDUSTRIAL PARK DR LENOIR CITY, TN 37771 865 986-9726 LENOIR CITY, INC.	LOC	
DRN	WRJ	7/8/89	SCALE		HQ	
CHK	MBF	8/22/89	1/2"=1'		S	
ENG	FMS	8/22/89	SIZE B		REV C	
APR	FMS	8/22/89			3/08	
APR						
JOB NUMBER			DRAWING NUMBER			
89233			DG0646			
SHEET 1 OF 1						



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POLYCAST[®]

DG0647

600 Series

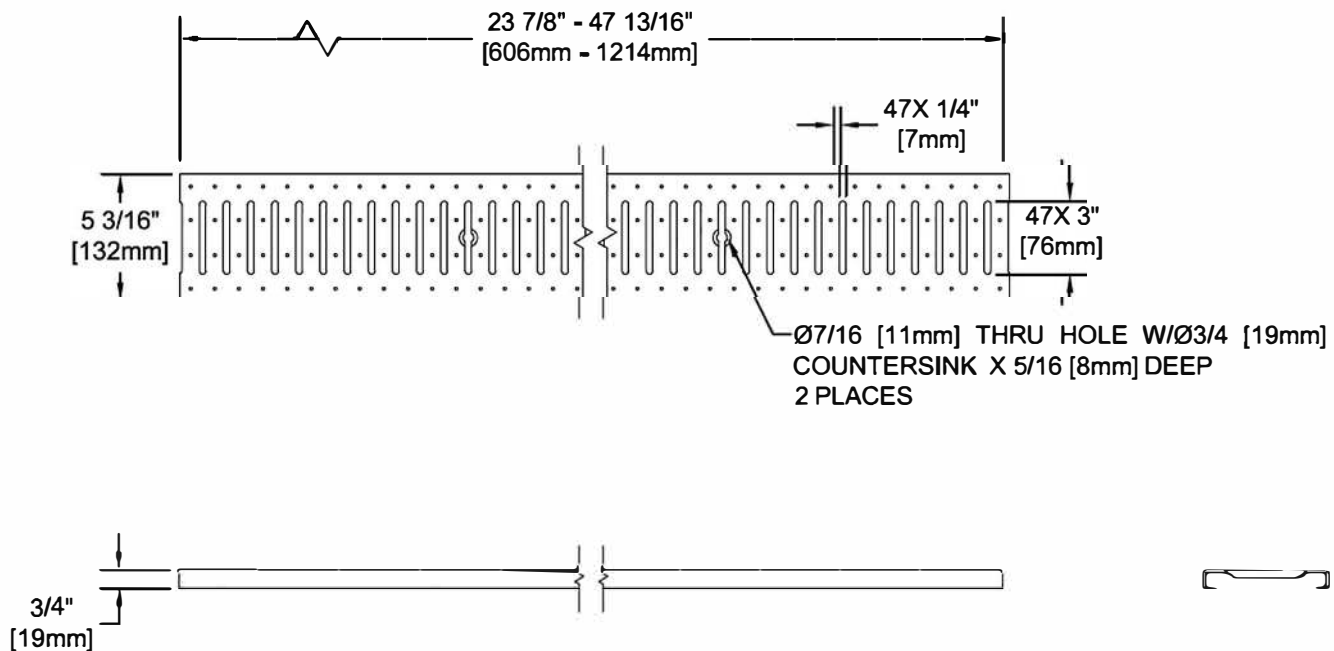
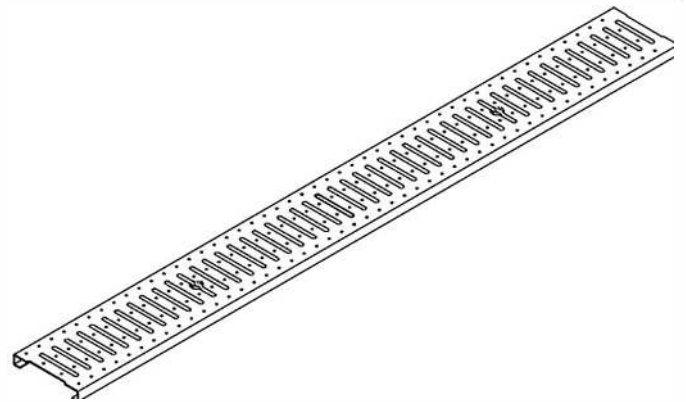
Stainless Steel Slotted

PROJECT ID/ CONTRACT NO: _____

LOCATION: _____

ENGINEERING SPECIFICATION:

POLYCAST[®] DG0647 Grate is designed for use where sanitary conditions are essential. Grating locking device Part No. DA0642S (not shown) should be used and maintained secure. The grate has 20% (41in²) of open area. The grate is made 14 gauge GR. 304 Stainless Steel and weighs approximately 8lbs [3.63kg]. The grate is available in both 24" [610mm] and 48" [1219mm] lengths.

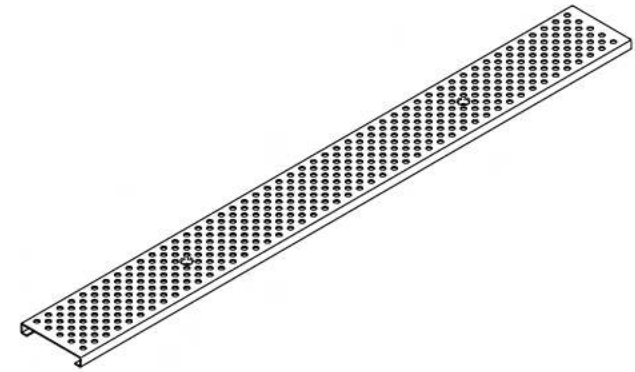
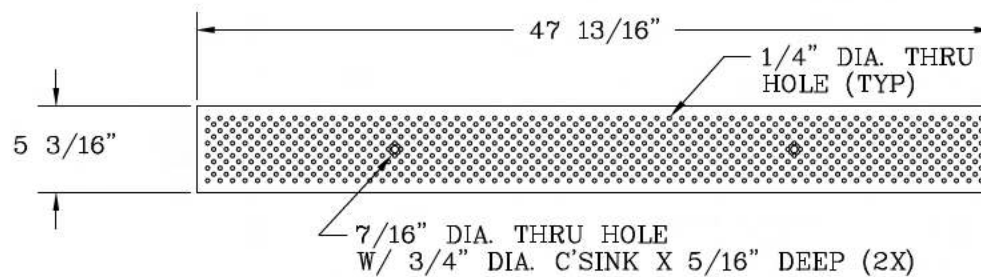


APPLICATION LOAD CLASS B:

Automobiles, light pickup trucks, general aviation aircraft, and low speeds (parking areas and driveways). Designed for a distributed pressure of 62psi (9,000psf).



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NOTES:

1. MATERIAL: 14 GAUGE GRADE 304 STAINLESS STEEL OR EQUIVALENT
2. THIS GRATE HAS 17% OPEN AREA AND 34 SQUARE INCHES OF OPEN AREA.
3. THIS GRATE IS DESIGNED FOR PEDESTRIAN APPLICATIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED					
DSN	BY	DATE	WEIGHT	LOC	
			8#	HQ	
DRN	WJS	9/29/89	SCALE	S	
CHK	MLB	10/3/89	1/8"-1"		
ENG	MLB	10/3/89	SIZE		
APR	MLB	10/3/89	B		
APR					
JOB NUMBER			DRAWING TITLE		REV
89234			POLYCAST® STAINLESS STEEL PERFORATED GRATE		A
			DRAWING NUMBER		8/88
			SHEET 1 OF 1		DG0657-01

POLYCAST[®]

DG0667

600 Series

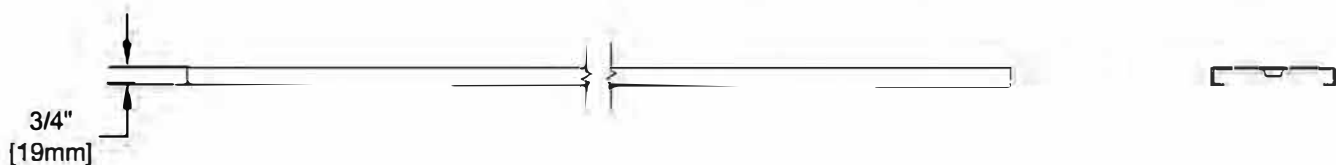
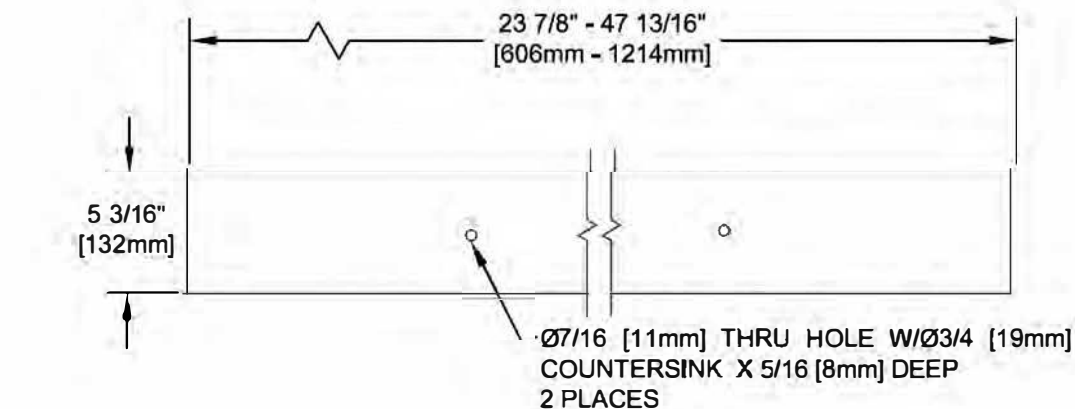
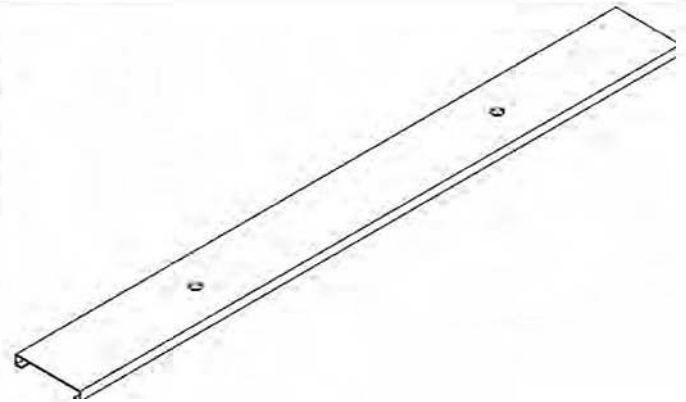
Stainless Steel Solid

PROJECT ID/ CONTRACT NO: _____

LOCATION: _____

ENGINEERING SPECIFICATION:

POLYCAST[®] DG0667 Grate is designed for pipe runs, e.g. secondary containment or cable runs. Especially suited for areas exposed to mild acids or bases. Removable cover allows full access. Grating locking device Part No. DA0642S (not shown) should be used and maintained secure. The grate weighs approximately 8lbs [3.6kg] and is available in both 24" [610mm] and 48" [1219mm] lengths.



APPLICATION LOAD CLASS A:

Pedestrian, bicycles and golf carts. Designed for a distributed pressure of 2psi (300psf). ADA compliant for accessible routes. Meets ASTM C-857.



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POLYCAST[®]

DG0675HD

600 Series

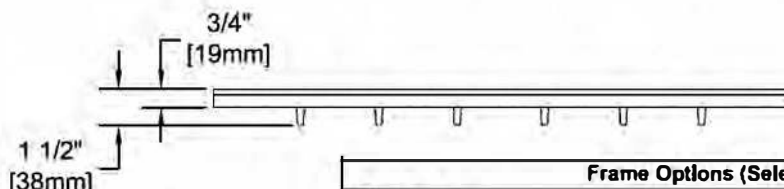
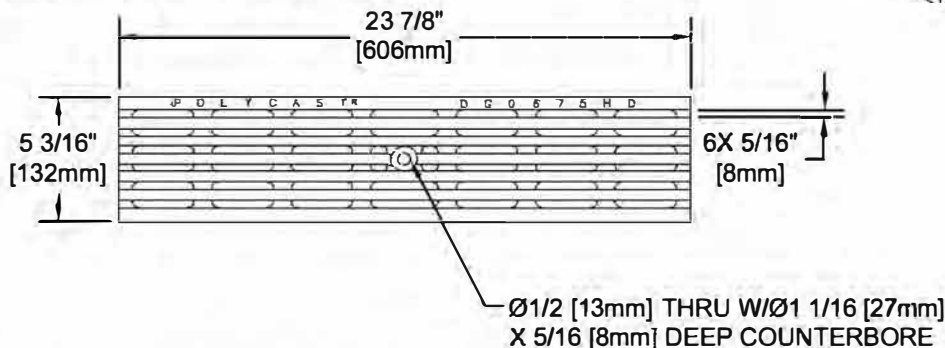
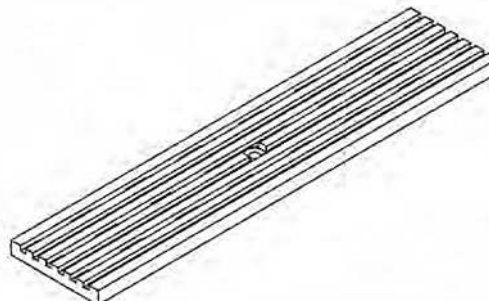
Ductile Iron Longitudinally Slotted

PROJECT ID/ CONTRACT NO: _____

LOCATION: _____

ENGINEERING SPECIFICATION:

POLYCAST[®] DG0675HD is appropriate for many general use conditions. Grating locking device Part No. DA0642B (not shown) should be used and maintained secure. The grate has 26% (32in²) of open area. The grate is made of ASTM A536 GR. 65-45-12 (ductile iron) and weighs approximately 15lbs [6.80kg]. The grate is only available in a 24" [610mm] length. The grate meets Load Class D when used alone in a 600 Series channel. If grate is used in conjunction with a DG0970 frame it meets Load Class F, a DG0700AA frame then meets Load Class F and a DG0700PE Frame it meets Load Class E.



Frame Options (Select One)			
Grate Type	Part No.	Load Class	
<input type="checkbox"/> DURAGUARD [®] Composite Frame	DG0700PE	Class E	
<input type="checkbox"/> HARDNOSE Iron Frame	DG0700AA	Class F	
<input type="checkbox"/> Iron Frame (w/4 anchoring rods)	DG0970	Class F	
Options (Select All That Apply)	Part No.	Additional Specifications:	
<input type="checkbox"/> HARDNOSE Locking Device	DA0642B		
<input type="checkbox"/> DURAGUARD [®] Locking Device	DA0642BH		
<input type="checkbox"/> Stainless Steel Locking Device	DA0642BHS		
<input type="checkbox"/> Locking Device	DA0942		
<input type="checkbox"/> Stainless Steel Locking Device	DA0942S		



APPLICATION LOAD CLASS D:

Highway vehicles, commercial aircraft and low to moderate speeds (parking areas, driveways and warehouses), Designed for a distributed pressure of 450psi (64,800psf). ADA compliant for accessible routes.

MEETS THE FOLLOWING STANDARDS & SPECIFICATIONS:

- Federal Aviation Administration (FAA) Advisory Circular Airport Pavement Design and Evaluation (AC 150/5320-6D Appendix 3 Design of Structures for Heavy Aircraft)
- AASHTO Highway Drainage Guidelines
- AASHTO Standard Specification for Highway Bridges



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