



TD-2022

# 2022

## GRP & STEEL TRENCH DRAIN SYSTEMS CATALOG



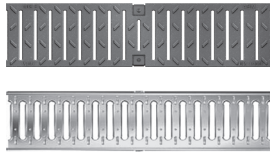

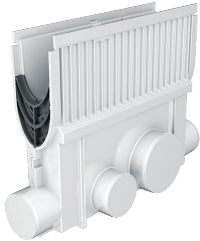






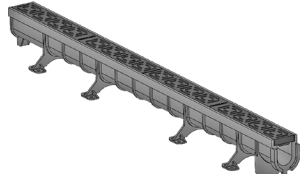
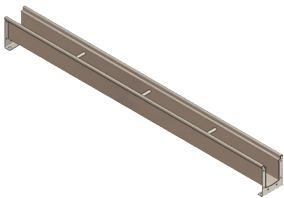
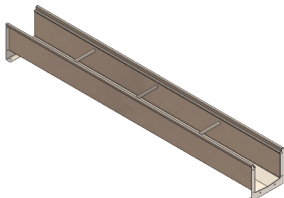


GRP & STEEL TRENCH  
DRAIN PRODUCTS



2", 4", 8", 12" INTERNAL WIDTHS - SHALLOW BODY - CATCH BASINS  
(3", 6", 10" AND 14" OVERALL WIDTHS)

LIT-046

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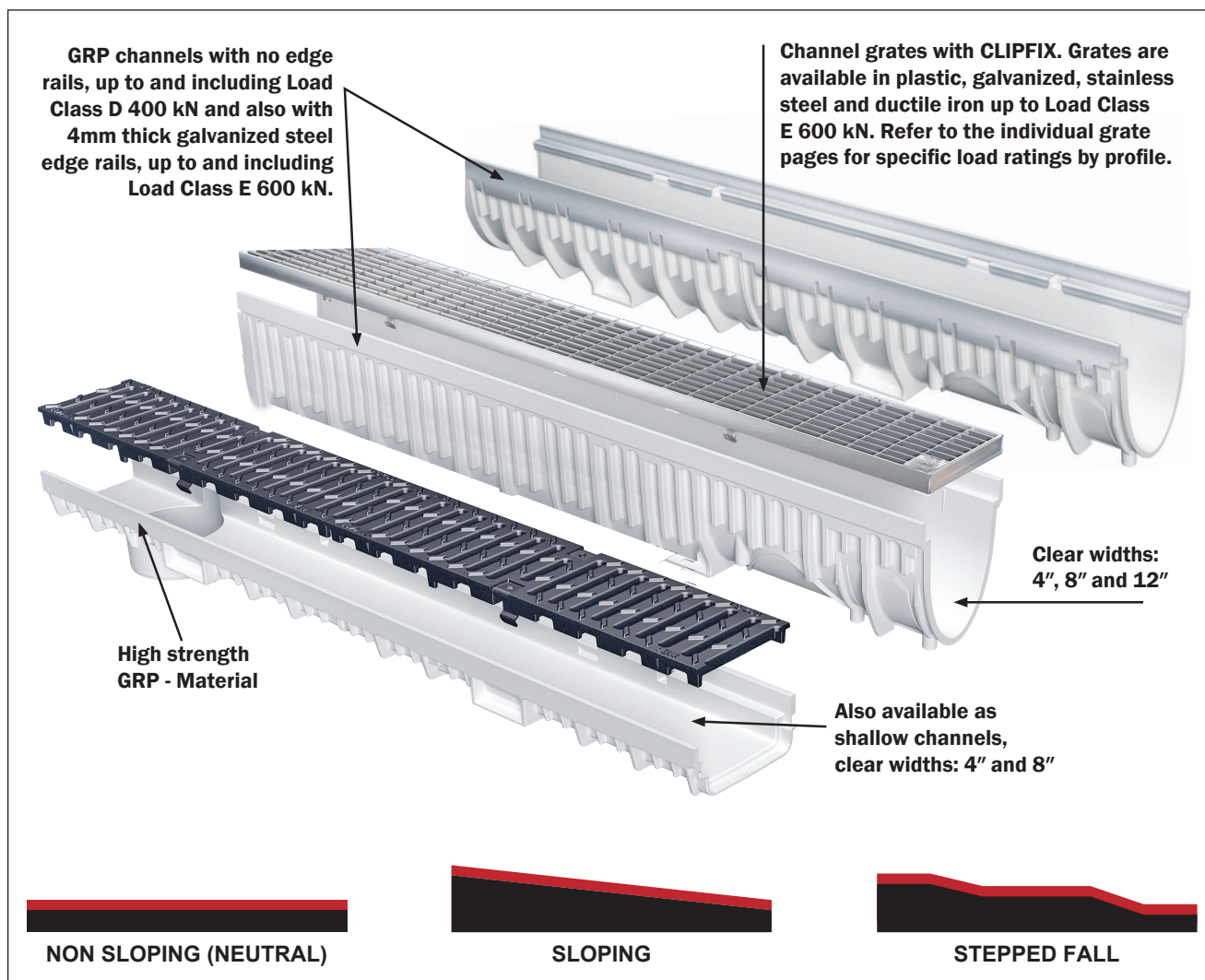
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## Glass Fiber Reinforced Polyester (GRP) for Maximum Flexibility



### The GRP channels are ideal for:

- Vehicle Maintenance
- Parking Lots and Garages
- Industrial and Logistics Areas
- All Hardscape Applications
- Commercial Areas
- Internal Applications
- Fire and Police Stations
- Gas Stations
- Docks and Ports
- Truck Stops

The GRP channels with no edge rails and 4mm edge rails made of galvanized steel have been designed for maximum stability and easy installation.

- ADA grates for handicapped accessible areas
- Heelproof grates for areas with high heels
- Ductile Iron slotted, longitudinal and decorative grates
- Perforated and mesh grates made of galvanized and stainless steel
- Slotted grates made of galvanized and stainless steel
- Longitudinal galvanized and stainless steel grates

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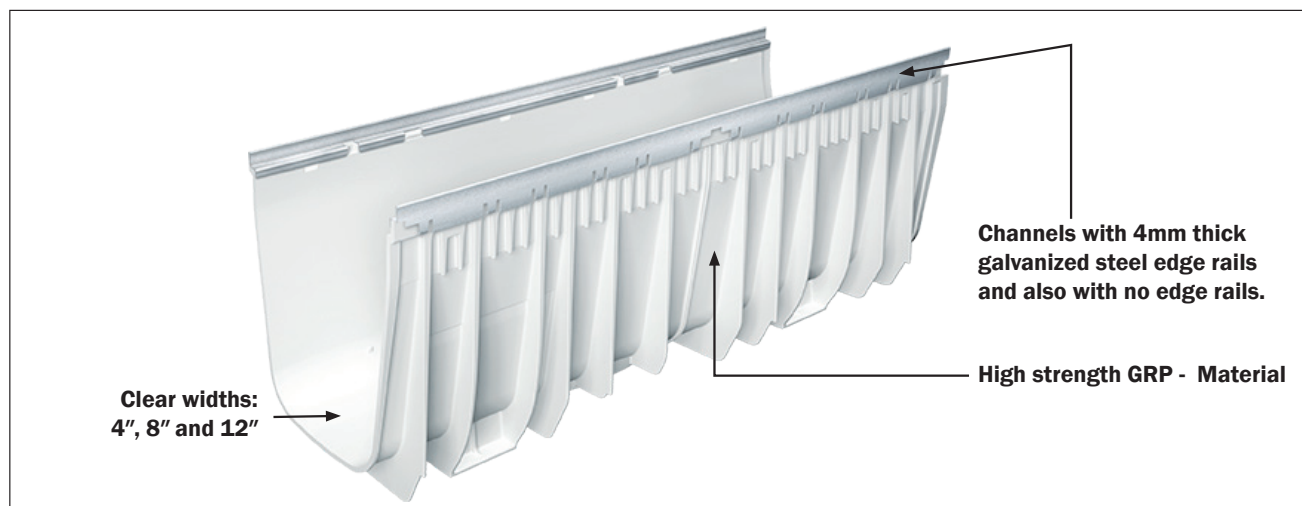
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## Glass Fiber Reinforced Polyester (GRP) for Material Advantage

MIFAB's GRP drainage channels using SMC (sheet molded compound manufacturing) technology offers the best price and performance for projects with grates up to Load Class E 600kN. The channels are available with no edge rails up to and including Load Class D 400 kN and also with 4mm thick galvanized steel edge rails up to and including Load Class E 600 kN. Available in 4", 8" and 12" internal widths; the channel offering is completed with a wide variety of grates and accessories.

- Drainage channels made of Glass Fiber Reinforced Polyester (GRP)
- Easy to install
- Load Class up to E 600kN



### GRP - GLASS FIBER REINFORCED POLYESTER

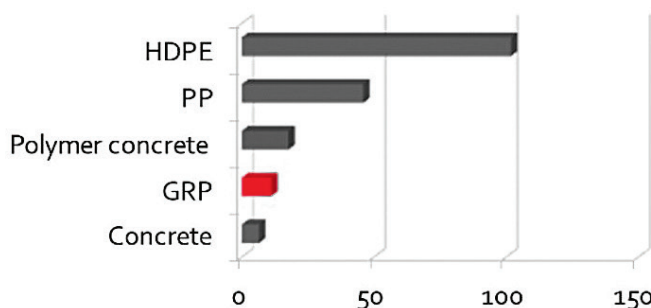
The GRP from MIFAB has outstanding physical and chemical properties. These make it an extremely reliable and versatile material in even the toughest conditions.

GRP channels are composed of glass fiber reinforced polyester. GRP channels are resistant to most chemicals and acids. A maximum working temperature of 212° F (100° C) is recommended. This exceeds most other materials (HDPE, PP and Polymer concrete) that have a working temperature of 180° degrees Fahrenheit.

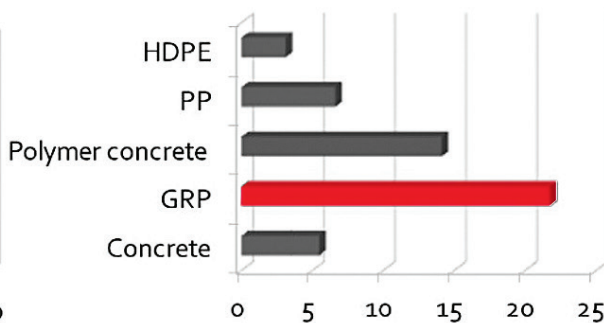
### MATERIAL CONSIDERATIONS

THESE SYSTEMS ARE EXPOSED TO: ELEMENTS  
EXTREME DYNAMIC LOADS  
CORROSIVE ENVIRONMENTS

**Thermal expansion material comparison at 68° F (20°C)**



**Compressive strength (1000 psi)**




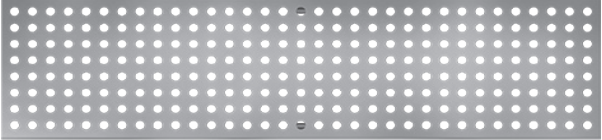

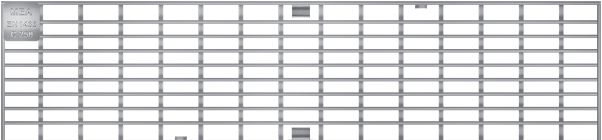


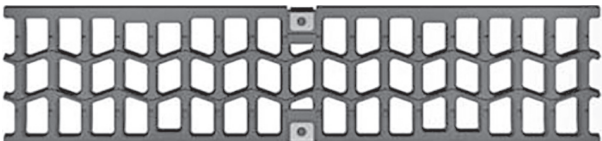
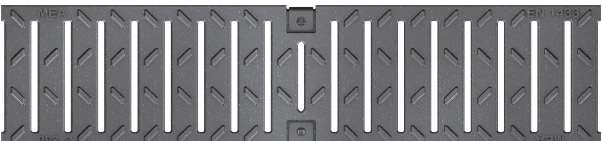
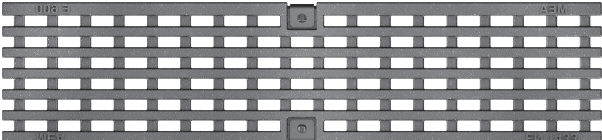

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## Clipfix Universal Grates

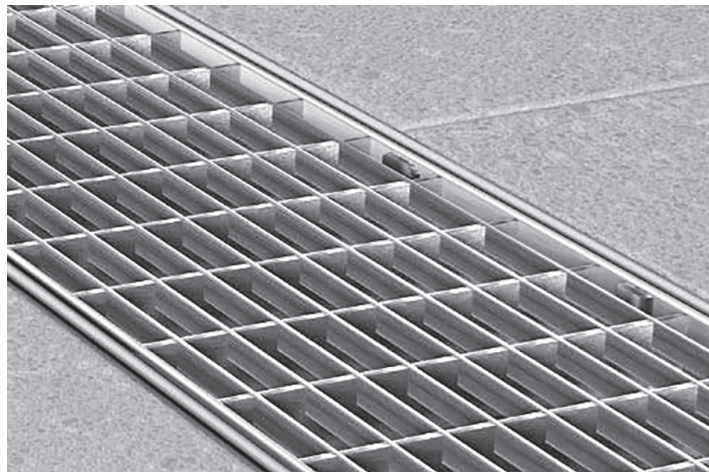
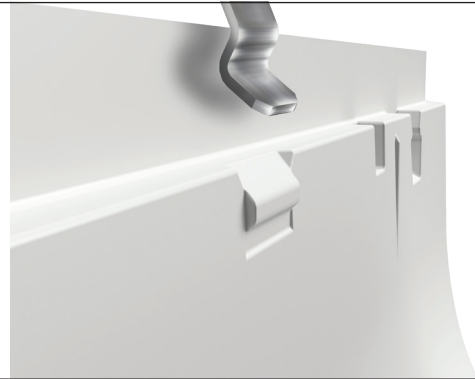
<b>SLOTTED - GALV. &amp; S.S.</b>  <b>Load Class A, C, E</b>	<b>T1400</b>	<b>PERFORATED - GALV. &amp; S.S.</b>  <b>Load Class A, C</b>	<b>T1400 T2000</b>
<b>PLASTIC</b>  <b>Load Class C</b>	<b>T1400</b>	<b>MESH - GALV. &amp; S.S.</b>  <b>Load Class A, C</b>	<b>T1400 T2000 T3000</b>
<b>LONGITUDINAL BAR - GALV. &amp; S.S.</b>  <b>Load Class B</b>	<b>T1400 T2000</b>	<b>DUCTILE IRON - SLOTTED</b>  <b>Load Class C, E</b>	<b>T1400 T2000 T3000</b>
<b>DUCTILE IRON - WAVE</b>  <b>Load Class C</b>	<b>T1400 T2000 T3000</b>	<b>DUCTILE IRON - HEELPROOF</b>  <b>Load Class C, E</b>	<b>T1400 T2000 T3000</b>
<b>DUCTILE IRON - ADA</b>  <b>Load Class E</b>	<b>T1400 T2000 T3000</b>	<b>DUCTILE IRON - BAVARIA</b>  <b>Load Class C</b>	<b>T1400 T2000</b>

**MIFAB offers a wide range of grates for GRP and steel channel systems that are not just functional, but also aesthetically pleasing.**

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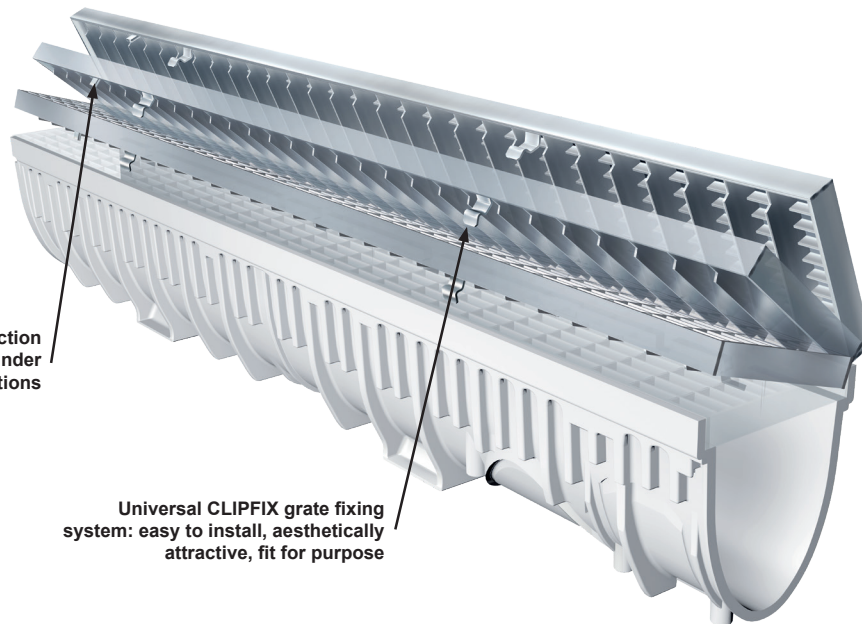
## Clipfix Universal Grate Locking Design

The MIFAB GRP channels have been designed and optimized for our universal CLIPFIX grate fixing mechanism with longitudinal shift protection. The advantage: a large choice of grates and a comprehensive product offering.



Thanks to the CLIPFIX system, the channel and grates offer an aesthetically pleasing solution when installed, because no locking devices or screws are visible.

Longitudinal shift protection system for anti-shunting under dynamic load conditions



Universal CLIPFIX grate fixing system: easy to install, aesthetically attractive, fit for purpose

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**SYSTEM PRICING (PER FOOT)**

<b>T1400 - 4" Internal Width</b> No Edge Rails				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Perforated	PGA-13-FP  	\$122.83
A	Galvanized Steel	Slotted	PGA-13-FS	\$122.83
A	Stainless Steel	Perforated	PGA-3-FP  	\$179.53
A	Stainless Steel	Slotted	PGA-3-FS	\$179.53
A	Stainless Steel	Mesh	PGA-3-SM 	\$211.11
B	Galvanized Steel	Longitudinal Slotted	PGB-13-LS  	\$160.61
B	Stainless Steel	Longitudinal Slotted	PGB-3-LS  	\$452.29
C	Ductile Iron	Slotted	PGC-4	\$139.63
C	Ductile Iron	Heelproof Slotted	PGC-4-HP 	\$165.73
C	Ductile Iron	WAVE	PGC-4-WVY	\$165.88
C	Ductile Iron	Bavaria	PGC-4-BG	\$165.88
C	Galvanized Steel	Mesh	PGC-13-GM 	\$194.23
C	Galvanized Steel	Perforated	PGC-13-FP  	\$191.08
C	Galvanized Steel	Slotted	PGC-13-FS	\$191.08
C	Galvanized Steel	Paverslot	PGC-13-SD  	\$310.78
C	Plastic	Heelproof Slotted	PGC-HPP 	\$237.28
C	Ductile Iron	Solid Cover	SCC-4  	\$165.88
C	Stainless Steel	Slotted	PGC-3-FS	\$271.93
C	Stainless Steel	Perforated	PGC-3-FP  	\$271.93
C	Stainless Steel	Mesh	PGC-3-SM 	\$371.20
C	Stainless Steel	Paverslot	PGC-3-SD  	\$514.48

<b>T1400-13 - 4" Internal Width</b> Galvanized Steel Edge Rails				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Perforated	PGA-13-FP  	\$174.28
A	Galvanized Steel	Slotted	PGA-13-FS	\$174.28
B	Galvanized Steel	Longitudinal Slotted	PGB-13-LS  	\$212.06
C	Ductile	Slotted	PGC-4	\$191.08
C	Ductile	Heelproof Slotted	PGC-4-HP 	\$217.18
C	Ductile	WAVE	PGC-4-WVY	\$217.33
C	Ductile	Bavaria	PGC-4-BG	\$217.33
C	Galvanized Steel	Mesh	PGC-13-GM 	\$245.68
C	Galvanized Steel	Perforated	PGC-13-FP  	\$242.53
C	Galvanized Steel	Slotted	PGC-13-FS	\$242.53
C	Galvanized Steel	Paverslot	PGC-13-SD  	\$362.23
C	Plastic	Heelproof Slotted	PGC-HPP 	\$288.73
C	Ductile	Solid Cover	SCC-4  	\$217.33
E	Ductile	Heelproof Slotted	PGE-4-HP  	\$244.63
E	Ductile	Longitudinal Slotted	PGE-4-ADA 	\$244.63
E	Ductile	Longitudinal Slotted, galvanized	PGE-4-ADA-13  	\$285.58
E	Ductile	Slotted	PGE-4	\$208.93
E	Ductile	Slotted, galvanized	PGE-4-13	\$221.53
E	Galvanized Steel	Slotted	PGE-13-FS	\$229.98

<b>T1460 - 4" Internal Width, 55MM Deep</b> No Edge Rails				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Perforated	PGA-13-FP  	\$107.13
A	Galvanized Steel	Slotted	PGA-13-FS	\$107.13
A	Stainless Steel	Perforated	PGA-3-FP  	\$163.83
A	Stainless Steel	Slotted	PGA-3-FS	\$163.83
A	Stainless Steel	Mesh	PGA-3-SM 	\$195.41
B	Galvanized Steel	Longitudinal Slotted	PGB-13-LS  	\$144.91
B	Stainless Steel	Longitudinal Slotted	PGB-3-LS  	\$436.59
C	Ductile Iron	Slotted	PGC-4	\$123.93
C	Ductile Iron	Heelproof Slotted	PGC-4-HP 	\$150.03

C	Ductile Iron	WAVE	PGC-4-WVY	\$150.18
C	Ductile Iron	Bavaria	PGC-4-BG	\$150.18
C	Galvanized Steel	Mesh	PGC-13-GM 	\$178.53
C	Galvanized Steel	Perforated	PGC-13-FP  	\$175.38
C	Galvanized Steel	Slotted	PGC-13-FS	\$175.38
C	Galvanized Steel	Paverslot	PGC-13-SD  	\$295.08
C	Plastic	Heelproof Slotted	PGC-HPP 	\$221.58
C	Ductile Iron	Solid Cover	SCC-4  	\$150.18
C	Stainless Steel	Slotted	PGC-3-FS	\$256.23
C	Stainless Steel	Perforated	PGC-3-FP  	\$256.23
C	Stainless Steel	Mesh	PGC-3-SM 	\$355.50
C	Stainless Steel	Paverslot	PGC-3-SD  	\$498.78

**NOTE: Lockdowns** The CLIPFIX locking clips are included with all of the above Class A - E grates.

45s, 90s, catch basins, outlets, end caps and installation devices are priced separately and not included in the above System Pricing. (See Page 13)

<b>Cutting Charges</b>	Cutting / per cut - (including bodies and grate - but does not include bonding of channel bodies)	<b>\$202.65</b>
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 See page 10 for explanation of ADA compliant grates


















 See page 10 for explanation of Heelproof compliant grates















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## System Pricing (Per Foot)

T2000 - 8" Internal Width No Edge Rails				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Mesh	PGA-13-GM 	\$271.10
A	Stainless Steel	Mesh	PGA-3-SM 	\$738.13
B	Galvanized Steel	Longitudinal Slotted	PGB-13-LS  	\$283.68
B	Stainless Steel	Longitudinal Slotted	PGB-3-LS  	\$738.13
C	Ductile Iron	Slotted	PGC-4	\$238.34
C	Ductile Iron	Heelproof Slotted	PGC-4-HP 	\$303.43
C	Ductile Iron	WAVE	PGC-4-WVY	\$303.43
C	Ductile Iron	Bavaria	PGC-4-BG	\$303.43
C	Galvanized Steel	Perforated	PGC-13-FP  	\$475.63
C	Galvanized Steel	Mesh	PGC-13-GM 	\$383.17
C	Galvanized Steel	Paverslot	PGC-13-SD  	\$325.95
C	Stainless Steel	Perforated	PGC-3-FP  	\$699.27
C	Stainless Steel	Mesh	PGC-3-SM 	\$867.97
C	Stainless Steel	Bar	PGC-3-SBG	\$803.23
C	Stainless Steel	Paverslot	PGC-3-SD  	\$487.96

T2060 - 8" Internal Width, 100MM Deep No Edge Rails				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Mesh	PGA-13-GM 	\$258.98
A	Stainless Steel	Mesh	PGA-3-SM 	\$726.01
B	Galvanized Steel	Longitudinal Slotted	PGB-13-LS  	\$271.56
B	Stainless Steel	Longitudinal Slotted	PGB-3-LS  	\$726.01
C	Ductile Iron	Slotted	PGC-4	\$226.22
C	Ductile Iron	Heelproof Slotted	PGC-4-HP 	\$291.31
C	Ductile Iron	WAVE	PGC-4-WVY	\$291.31
C	Ductile Iron	Bavaria	PGC-4-BG	\$291.31
C	Galvanized Steel	Perforated	PGC-13-FP  	\$463.51
C	Galvanized Steel	Mesh	PGC-13-GM 	\$371.05
C	Galvanized Steel	Paverslot	PGC-13-SD  	\$313.83
C	Stainless Steel	Perforated	PGC-3-FP  	\$687.15
C	Stainless Steel	Mesh	PGC-3-SM 	\$855.85
C	Stainless Steel	Bar	PGC-3-SBG	\$791.11
C	Stainless Steel	Paverslot	PGC-3-SD  	\$475.84

T2000-13 - 8" Internal Width Galvanized Steel Edge Rail				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Mesh	PGA-13-GM 	\$327.80
B	Galvanized Steel	Longitudinal Slotted	PGB-13-LS  	\$340.39
C	Ductile Iron	Slotted	PGC-4	\$295.05
C	Ductile Iron	Heelproof Slotted	PGC-4-HP 	\$360.14
C	Ductile Iron	WAVE	PGC-4-WVY	\$360.14
C	Ductile Iron	Bavaria	PGC-4-BG	\$360.14
C	Galvanized Steel	Perforated	PGC-13-FP  	\$532.33
C	Galvanized Steel	Mesh	PGC-13-GM 	\$439.88
C	Galvanized Steel	Paverslot	PGC-13-SD  	\$382.65
E	Ductile Iron	Slotted	PGE-4	\$342.30
E	Ductile Iron	Slotted, galvanized	PGE-4-13	\$392.70
E	Ductile Iron	Heelproof Slotted	PGE-4-HP 	\$392.70
E	Ductile Iron	Longitudinal Slotted	PGE-4-ADA  	\$392.70
E	Ductile Iron	Longitudinal Slotted, galvanized	PGE-4-ADA-13  	\$502.94

T3000 - 12" Internal Width No Edge Rails				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
C	Galvanized Steel	Mesh	PGC-13-GM 	\$638.02
C	Stainless Steel	Mesh	PGC-3-SM	\$1,111.80
C	Stainless Steel	Bar	PGC-3-SBG	\$986.51
C	Ductile Iron	Slotted	PGC-4	\$295.58
C	Ductile Iron	Heelproof Slotted	PGC-4-HP 	\$349.15
C	Ductile Iron	WAVE	PGC-4-WVY	\$464.39


T3000-13 - 12" Internal Width Galvanized Steel Edge Rail				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
C	Galvanized Steel	Mesh	PGC-13-GM 	\$708.90
C	Ductile Iron	Slotted	PGC-4	\$366.46
C	Ductile Iron	Heelproof Slotted	PGC-4-HP 	\$420.03
C	Ductile Iron	WAVE	PGC-4-WVY	\$535.27
E	Ductile Iron	Slotted	PGE-4	\$559.15
E	Ductile Iron	Slotted, galvanized	PGE-4-13	\$614.33
E	Ductile Iron	Heelproof Slotted	PGE-4-HP 	\$559.15
E	Ductile Iron	Longitudinal Slotted	PGE-4-ADA  	\$559.15
E	Ductile Iron	Longitudinal Slotted, galvanized	PGE-4-ADA-13  	\$614.33

**NOTE: Lockdowns** The CLIPFIX locking clips are included with all of the above Class A - E grates.

45s, 90s, catch basins, outlets, end caps and installation devices are priced separately and not included in the above System Pricing. (See Pages 17 and 21)

<b>Cutting Charges</b>	T2000, T2000-13, T2060 - Cutting / per cut - (including bodies and grate - but does not include bonding of channel bodies)	<b>\$192.00</b>
<b>Cutting Charges</b>	T3000, T3000-13 - Cutting / per cut - (including bodies and grate - but does not include bonding of channel bodies)	<b>\$387.50</b>

 See page 12 for explanation of ADA compliant grates

 See page 12 for explanation of Heelproof compliant grates

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# System Pricing (Per Foot)

T1330 - 4" Internal Width				
Steel channel w/ grate				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Perforated	PGA-13-FP	\$373.75
A	Galvanized Steel	Slotted	PGA-13-FS	\$373.75
A	Stainless Steel	Perforated	PGA-3-FP	\$430.45
A	Stainless Steel	Slotted	PGA-3-FS	\$430.45
A	Stainless Steel	Mesh	PGA-3-SM	\$462.03
B	Galvanized Steel	Longitudinal Slotted	PGB-13-LS	\$411.52
B	Stainless Steel	Longitudinal Slotted	PGB-3-LS	\$703.21
C	Ductile Iron	Slotted	PGC-4	\$390.55
C	Ductile Iron	Heelproof Slotted	PGC-4-HP	\$416.65
C	Ductile Iron	Wave	PGC-4-WVY	\$416.80
C	Ductile Iron	Bavaria	PGC-4-BG	\$416.80
C	Ductile Iron	Solid Cover	SCC-4	\$416.80
C	Galvanized Steel	Mesh	PGC-13-GM	\$445.15
C	Galvanized Steel	Perforated	PGC-13-FP	\$442.00
C	Galvanized Steel	Slotted	PGC-13-FS	\$442.00
C	Galvanized Steel	Paverslot	PGC-13-SD	\$561.70
C	Plastic	Heelproof Slotted	PGC-HPP	\$488.20
C	Stainless Steel	Slotted	PGC-3-FS	\$522.85
C	Stainless Steel	Perforated	PGC-3-FP	\$522.85
C	Stainless Steel	Mesh	PGC-3-SM	\$622.11
C	Stainless Steel	Paverslot	PGC-3-SD	\$765.40
E	Ductile Iron	Heelproof Slotted	PGE-4-HP	\$444.10
E	Ductile Iron	Longitudinal Slotted	PGE-4-ADA	\$444.10
E	Ductile Iron	Longitudinal Slotted, galvanized	PGE-4-ADA-13	\$485.05
E	Ductile Iron	Slotted	PGE-4	\$408.40
E	Ductile Iron	Slotted, galvanized	PGE-4-13	\$421.00
E	Galvanized Steel	Slotted	PGE-13-FS	\$429.45

T1400-F - 4" Internal Width				
Steel Frame				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Perforated	PGA-13-FP	\$149.05
A	Galvanized Steel	Slotted	PGA-13-FS	\$149.05
A	Stainless Steel	Perforated	PGA-3-FP	\$205.75
A	Stainless Steel	Slotted	PGA-3-FS	\$205.75
A	Stainless Steel	Mesh	PGA-3-SM	\$237.33
B	Galvanized Steel	Longitudinal Slotted	PGB-13-LS	\$186.83
B	Stainless Steel	Longitudinal Slotted	PGB-3-LS	\$478.51
C	Ductile Iron	Slotted	PGC-4	\$165.85
C	Ductile Iron	Heelproof Slotted	PGC-4-HP	\$191.95
C	Ductile Iron	Wave	PGC-4-WVY	\$192.10
C	Ductile Iron	Bavaria	PGC-4-BG	\$192.10
C	Ductile Iron	Solid Cover	SCC-4	\$192.10
C	Galvanized Steel	Mesh	PGC-13-GM	\$220.45
C	Galvanized Steel	Perforated	PGC-13-FP	\$217.30
C	Galvanized Steel	Slotted	PGC-13-FS	\$217.30
C	Galvanized Steel	Paverslot	PGC-13-SD	\$337.00
C	Plastic	Heelproof Slotted	PGC-HPP	\$263.50
C	Stainless Steel	Slotted	PGC-3-FS	\$298.15
C	Stainless Steel	Perforated	PGC-3-FP	\$298.15
C	Stainless Steel	Mesh	PGC-3-SM	\$397.42
C	Stainless Steel	Paverslot	PGC-3-SD	\$540.70
E	Ductile Iron	Heelproof Slotted	PGE-4-HP	\$219.40
E	Ductile Iron	Longitudinal Slotted	PGE-4-ADA	\$219.40
E	Ductile Iron	Longitudinal Slotted, galvanized	PGE-4-ADA-13	\$260.35
E	Ductile Iron	Slotted	PGE-4	\$183.70
E	Ductile Iron	Slotted, galvanized	PGE-4-13	\$196.30
E	Galvanized Steel	Slotted	PGE-13-FS	\$204.75

T1360 - 8" Internal Width				
Steel channel w/ grate				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Mesh	PGA-13-GM	\$534.41
A	Stainless Steel	Mesh	PGA-3-SM	\$1,001.43
B	Galvanized Steel	Longitudinal slotted	PGB-13-LS	\$546.99
B	Stainless Steel	Longitudinal slotted	PGB-3-LS	\$1,001.43
C	Ductile Iron	Slotted	PGC-4	\$501.65
C	Ductile Iron	Heelproof Slotted	PGC-4-HP	\$566.74
C	Ductile Iron	Wave	PGC-4-WVY	\$566.74
C	Ductile Iron	Bavaria	PGC-4-BG	\$566.74
C	Ductile Iron	Mesh	PGC-13-GM	\$646.48
C	Galvanized Steel	Perforated	PGC-13-FP	\$738.93
C	Galvanized Steel	Paverslot	PGC-13-SD	\$589.25
C	Stainless Steel	Perforated	PGC-3-FP	\$962.58
C	Stainless Steel	Mesh	PGC-3-SM	\$1,131.28
C	Stainless Steel	Bar	PGC-3-SBG	\$1,066.54
C	Stainless Steel	Paverslot	PGC-3-SD	\$751.27
E	Ductile Iron	Slotted	PGE-4	\$548.90
E	Ductile Iron	Slotted, galvanized	PGE-4-13	\$599.30
E	Ductile Iron	Heelproof Slotted	PGE-4-HP	\$599.30
E	Ductile Iron	Longitudinal slotted	PGE-4-ADA	\$599.30
E	Ductile Iron	Longitudinal Slotted, galvanized	PGE-4-ADA-13	\$709.54

T2000-F - 8" Internal Width				
Steel Frame				
GRATE LOAD CLASS	GRATE MATERIAL	GRATE DESIGN	GRATE SUFFIX	LIST PRICE (Per Foot)
A	Galvanized Steel	Mesh	PGA-13-GM	\$336.17
A	Stainless Steel	Mesh	PGA-3-SM	\$803.20
B	Galvanized Steel	Longitudinal slotted	PGB-13-LS	\$348.75
B	Stainless Steel	Longitudinal slotted	PGB-3-LS	\$803.20
C	Ductile Iron	Slotted	PGC-4	\$303.41
C	Ductile Iron	Heelproof Slotted	PGC-4-HP	\$368.50
C	Ductile Iron	Wave	PGC-4-WVY	\$368.50
C	Ductile Iron	Bavaria	PGC-4-BG	\$368.50
C	Galvanized Steel	Mesh	PGC-13-GM	\$448.24
C	Galvanized Steel	Perforated	PGC-13-FP	\$540.70
C	Galvanized Steel	Paverslot	PGC-13-SD	\$391.02
C	Stainless Steel	Perforated	PGC-3-FP	\$764.34
C	Stainless Steel	Mesh	PGC-3-SM	\$933.04
C	Stainless Steel	Bar	PGC-3-SBG	\$868.30
C	Stainless Steel	Paverslot	PGC-3-SD	\$553.03
E	Ductile Iron	Slotted	PGE-4	\$350.66
E	Ductile Iron	Slotted, galvanized	PGE-4-13	\$401.06
E	Ductile Iron	Heelproof Slotted	PGE-4-HP	\$401.06
E	Ductile Iron	Longitudinal slotted	PGE-4-ADA	\$401.06
E	Ductile Iron	Longitudinal Slotted, galvanized	PGE-4-ADA-13	\$511.30

**NOTE:** Lockdowns The CLIPFIX locking clips are included with all of the above grates.

T1330, T1360: 45s, 90s, catch basins, outlets, end caps and installation devices are priced separately and not included in the above System Pricing. (See Pages 26 & 28)



See page 12 for explanation of ADA compliant grates



See page 12 for explanation of Heelproof compliant grates

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## PROJECT REFERENCES



**TOWN CENTRES AND PEDESTRIAN AREAS**



**PARKING SPACES**



**GARDENING AND LANDSCAPING**



**PARKING GARAGES**



**OFFICE PLAZA**



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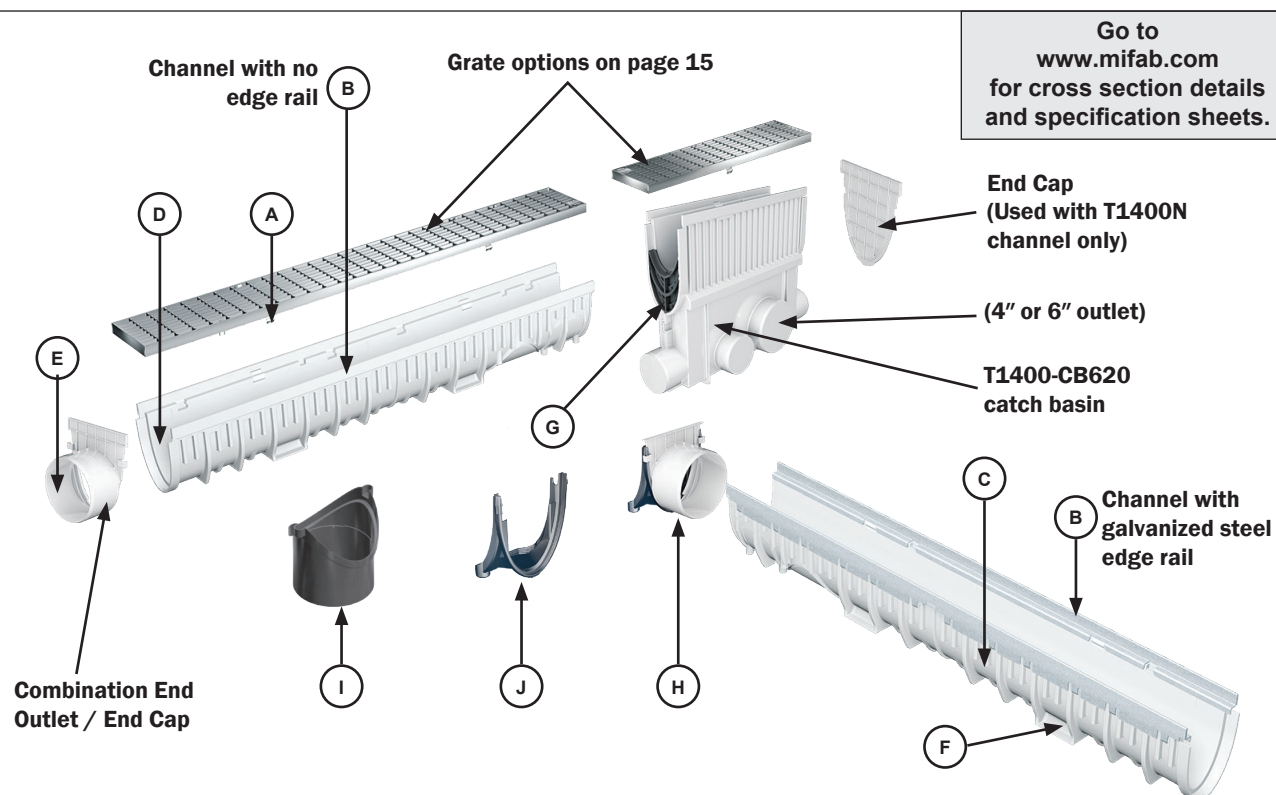
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## T1400 System Components and Features



- A. Innovative CLIPFIX grate locking mechanism. Grates made of plastic, ductile iron, galvanized and stainless steel.
- B. GRP channels with no edge rails and also with 4mm thick galvanized steel edge rails as per EN 1433.
- C. High strength of the drainage channel body enables Load Class A 15kN to Load Class E 600kN.
- D. Optimized flow cross section promotes self cleaning.
- E. Combination end cap / end outlet for either end of the channels for all depths.
- F. Deep-seated anchorage bays in the drainage channel body ensures mechanical attachment to the concrete Installation device attachment point.
- G. Four filler plates, one end cap and one sediment bucket are provided with every catch basin. For T1400N channel, use four filler plates, two on each side. For T1410N channel, use one filler plate on each side.
- H. Side outlet connector.
- I. 4" No Hub Bottom outlet.
- J. Side channel adapter.



ADA grates are designed to have open slots no greater than 0.5 inches (13mm) wide in one direction. If the length of the slot is greater than 0.5 inches, the opening shall run perpendicular to the main direction.

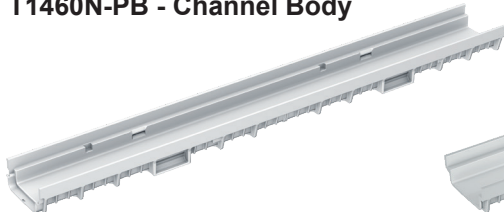


Heelproof grates are designed to resist entry of pointed high heel shoes from entering the trench drain grate opening. ASME Standard A112.6.3, Section 7.12 defines Heelproof as: "A grate designed to resist entry of high-heeled shoes, in which the maximum grate hole size in least dimension shall be 5/16" (8mm) (0.31").

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## T1460 - 4" Internal Width - Shallow Channels and Catch Basins

T1460N-PB - Channel Body



T1460N-PB-B04 -  
Channel Body with  
integral 4" outlet



T1400-CB620 Catch Basin







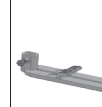




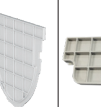
Go to [www.mifab.com](http://www.mifab.com) for cross section details and specification sheets.

NO EDGE RAILS		BODY TYPE	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE GPM	WEIGHT (LESS GRATE) Lbs.
Channel Model #	List Price, Each (1 Meter long)		Min.	Max.	Min.	Max.		
<b>T1460N-PB</b>	<b>\$313.50</b>	Neutral	2"	2"	2.17"	2.17"	55	4.12
<b>T1460N-PB-500</b> (half meter long)	<b>\$188.25</b>	Neutral	2"	2"	2.17"	2.17"	55	2.05
<b>T1460N-PB-B04</b>	<b>\$313.50</b>	Neutral	2"	2"	2.17"	2.17"	55	4.12
<b>T1460N-SVF</b>	<b>\$141.25</b>	Type 304 Stainless Steel veneer frame for all T1400 and T1460N no edge channels						

## Catch Basins For T1400 and T1460 Channels

GALVANIZED STEEL INTEGRAL RAILS		NO EDGE RAILS		BODY TYPE	INVERT DEPTH		OVERALL DEPTH		WEIGHT (LESS GRATE) Lbs.
Catch Basin Model #	List Price, Each (1/2 Meter long)	Catch Basin Model #	List Price, Each (1/2 Meter long)		Min.	Max.	Min.	Max.	
<b>T1400-CB620-13</b>	<b>\$715.00</b>	<b>T1400-CB620</b>	<b>\$617.50</b>	Neutral	19"	19"	19.18"	19.18"	12.74
Replacement sediment bucket		<b>T1400-CB620-SB</b>	<b>\$217.50</b>						

NOTE: All catch basins are shipped with the sediment bucket, four filler plates and an end cap. Recommended channel connections to the catch basin can be best achieved using channel numbers T1400, T1410 and T1420.

									
MI-FLEX-400	T1400-PBDS	T1400-PEO End Outlet - 4"	T1400-PB04 Bottom Outlet - 4"	T1400-REB (Installation Device) Two devices provided with every channel	T1400-SIDE-ADAPT T1400-SIDE-ADAPT-0 - T1400N T1400-SIDE-ADAPT-10 - T1410N T1400-SIDE-ADAPT-20 - T1420N	T1400-SO4 Side outlet connector and End Outlet assembled T1400-SO4 - T1400N T1410-SO4 - T1410N T1420-SO4 - T1420N	T1400-PEC End Cap	T1460-PEC Closed End Cap for T1460N Channels	MI-4ADAPT 4" PVC x 4" N.P.T. Adapter

MODEL #	DESCRIPTION	MATERIAL	LIST PRICE	WEIGHT (Lbs.)
<b>MI-FLEX-400</b>	4" Flexible rubber coupling to connect 4" No Hub vertical and horizontal channel outlets to drainage pipe.	Rubber	<b>\$18.00</b>	0.50
<b>T1400-PBDS</b>	Bottom Outlet Strainer	Stainless Steel	<b>\$81.00</b>	0.20
<b>T1400-PEO</b>	4" No Hub End outlet / end cap and combination front / end cap	Plastic	<b>\$40.00</b>	0.44
<b>T1400-PB04</b>	4" No Hub Bottom outlet	Plastic	<b>\$40.00</b>	0.40
<b>T1400-REB</b>	Replacement Installation Device	Plastic	<b>\$11.50</b>	0.22
<b>T1400-SIDE-ADAPT-0</b>	Side Outlet Adapter for T1400N channel	Plastic	<b>\$41.00</b>	0.60
<b>T1400-SIDE-ADAPT-10</b>	Side Outlet Adapter for T1410N channel	Plastic	<b>\$41.00</b>	0.60
<b>T1400-SIDE-ADAPT-20</b>	Side Outlet Adapter for T1420N channel	Plastic	<b>\$41.00</b>	0.60
<b>T1400-SO4</b>	Side Outlet Connector (T1400-SIDE-ADAPT-0 and T1400-PEO for T1400N)	Plastic	<b>\$81.00</b>	0.20
<b>T1410-SO4</b>	Side Outlet Connector (T1400-SIDE-ADAPT-10 and T1400-PEO for T1410N)	Plastic	<b>\$81.00</b>	0.20
<b>T1420-SO4</b>	Side Outlet Connector (T1400-SIDE-ADAPT-20 and T1400-PEO for T1420N)	Plastic	<b>\$81.00</b>	0.20
<b>T1400-PEC</b>	Closed End Cap	Plastic	<b>\$40.00</b>	0.20
<b>T1460-PEC</b>	Closed End Cap for T1460N channels	Plastic	<b>\$40.00</b>	0.20
<b>MI-4ADAPT</b>	4" PVC x 4" N.P.T. adapter coupling to install around bottom outlet to connect to MIFAB A1 body for waterproofing applications	Plastic	<b>\$25.00</b>	0.20

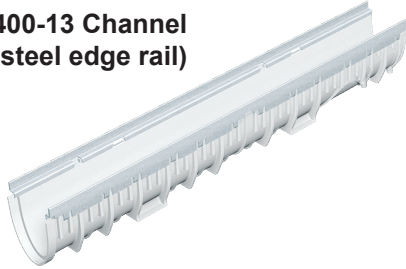
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**T1400-13 Channel**  
(with galvanized steel edge rail)



**T1400 Channel**  
(with no edge rail)



Go to [www.mifab.com](http://www.mifab.com)  
for cross section details and  
specification sheets.






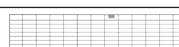
GALVANIZED STEEL INTEGRAL RAILS		NO EDGE RAILS		BODY TYPE	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE GPM	WEIGHT (LESS GRATE) Lbs.
Channel Model #	List Price, Each (1 Meter long)	Channel Model #	List Price, Each (1 Meter long)		E1 (Min.)	E2 (Max.)	E1 (Min.)	E2 (Max.)		
<b>T1400N-PB-13</b>	<b>\$533.75</b>	<b>T1400N-PB</b>	<b>\$365.00</b>	Neutral	5.78"	5.78"	6.23"	6.23"	137	7.94
<b>T1400N-PB-13-500</b>	<b>\$320.00</b> (half meter long channel)	<b>T1400N-PB-500</b>	<b>\$219.00</b> (half meter long channel)	Neutral	5.78"	5.78"	6.23"	6.23"	137	4.41
<b>T1400N-PB-13-500-DC</b>	<b>\$320.00</b> (half meter long channel, direction change)	<b>T1400N-PB-500-DC</b>	<b>\$219.00</b> (half meter long channel, direction change)	Neutral	5.78"	5.78"	6.23"	6.23"	137	4.41
<b>T1401-PB-13</b>	<b>\$533.75</b>	<b>T1401-PB</b>	<b>\$365.00</b>	Sloped	5.78"	5.98"	6.23"	6.42"	146	8.16
<b>T1402-PB-13</b>	<b>\$533.75</b>	<b>T1402-PB</b>	<b>\$365.00</b>	Sloped	5.98"	6.18"	6.42"	6.62"	155	8.32
<b>T1403-PB-13</b>	<b>\$533.75</b>	<b>T1403-PB</b>	<b>\$365.00</b>	Sloped	6.18"	6.38"	6.62"	6.82"	163	8.49
<b>T1404-PB-13</b>	<b>\$533.75</b>	<b>T1404-PB</b>	<b>\$365.00</b>	Sloped	6.38"	6.57"	6.82"	7.01"	173	8.66
<b>T1405-PB-13</b>	<b>\$533.75</b>	<b>T1405-PB</b>	<b>\$365.00</b>	Sloped	6.57"	6.77"	7.01"	7.21"	182	8.83
<b>T1406-PB-13</b>	<b>\$533.75</b>	<b>T1406-PB</b>	<b>\$365.00</b>	Sloped	6.77"	6.97"	7.21"	7.41"	192	8.99
<b>T1407-PB-13</b>	<b>\$533.75</b>	<b>T1407-PB</b>	<b>\$365.00</b>	Sloped	6.97"	7.16"	7.41"	7.60"	203	9.16
<b>T1408-PB-13</b>	<b>\$533.75</b>	<b>T1408-PB</b>	<b>\$365.00</b>	Sloped	7.16"	7.36"	7.60"	7.80"	212	9.33
<b>T1409-PB-13</b>	<b>\$533.75</b>	<b>T1409-PB</b>	<b>\$365.00</b>	Sloped	7.36"	7.56"	7.80"	8.00"	223	9.50
<b>T1410-PB-13</b>	<b>\$533.75</b>	<b>T1410-PB</b>	<b>\$365.00</b>	Sloped	7.56"	7.75"	8.00"	8.19"	235	9.67
<b>T1410N-PB-13</b>	<b>\$533.75</b>	<b>T1410N-PB</b>	<b>\$365.00</b>	Neutral	7.75"	7.75"	8.19"	8.19"	235	9.57
<b>T1410N-PB-13-500</b>	<b>\$320.00</b> (half meter long channel)	<b>T1410N-PB-500</b>	<b>\$219.00</b> (half meter long channel)	Neutral	7.75"	7.75"	8.19"	8.19"	235	4.78
<b>T1410N-PB-13-500-DC</b>	<b>\$320.00</b> (half meter long channel, direction change)	<b>T1410N-PB-500-DC</b>	<b>\$219.00</b> (half meter long channel, direction change)	Neutral	7.75"	7.75"	8.19"	8.19"	235	4.78
<b>T1411-PB-13</b>	<b>\$533.75</b>	<b>T1411-PB</b>	<b>\$365.00</b>	Sloped	7.75"	7.95"	8.19"	8.39"	246	9.83
<b>T1412-PB-13</b>	<b>\$533.75</b>	<b>T1412-PB</b>	<b>\$365.00</b>	Sloped	7.95"	8.15"	8.39"	8.59"	262	10.00
<b>T1413-PB-13</b>	<b>\$533.75</b>	<b>T1413-PB</b>	<b>\$365.00</b>	Sloped	8.15"	8.34"	8.59"	8.78"	273	10.17
<b>T1414-PB-13</b>	<b>\$533.75</b>	<b>T1414-PB</b>	<b>\$365.00</b>	Sloped	8.34"	8.54"	8.78"	8.98"	285	10.34
<b>T1415-PB-13</b>	<b>\$533.75</b>	<b>T1415-PB</b>	<b>\$365.00</b>	Sloped	8.54"	8.74"	8.98"	9.18"	298	10.50
<b>T1416-PB-13</b>	<b>\$533.75</b>	<b>T1416-PB</b>	<b>\$365.00</b>	Sloped	8.74"	8.93"	9.18"	9.38"	311	10.67
<b>T1417-PB-13</b>	<b>\$533.75</b>	<b>T1417-PB</b>	<b>\$365.00</b>	Sloped	8.93"	9.13"	9.38"	9.57"	323	10.84
<b>T1418-PB-13</b>	<b>\$533.75</b>	<b>T1418-PB</b>	<b>\$365.00</b>	Sloped	9.13"	9.33"	9.57"	9.77"	338	11.01
<b>T1419-PB-13</b>	<b>\$533.75</b>	<b>T1419-PB</b>	<b>\$365.00</b>	Sloped	9.33"	9.53"	9.77"	9.97"	350	11.17
<b>T1420-PB-13</b>	<b>\$533.75</b>	<b>T1420-PB</b>	<b>\$365.00</b>	Sloped	9.53"	9.72"	9.97"	10.16"	365	11.34
<b>T1420N-PB-13</b>	<b>\$533.75</b>	<b>T1420N-PB</b>	<b>\$365.00</b>	Neutral	9.72"	9.72"	10.16"	10.16"	365	11.42
<b>T1420N-PB-13-500</b>	<b>\$320.00</b> (half meter long channel)	<b>T1420N-PB-500</b>	<b>\$219.00</b> (half meter long channel)	Neutral	9.72"	9.72"	10.16"	10.16"	365	5.71
<b>T1420N-PB-13-500-DC</b>	<b>\$320.00</b> (half meter long channel, direction change)	<b>T1420N-PB-500-DC</b>	<b>\$219.00</b> (half meter long channel, direction change)	Neutral	9.72"	9.72"	10.16"	10.16"	365	5.71

Go to [www.mifab.com](http://www.mifab.com) for cross section details and specification sheets.

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.






















**LOAD CLASS A GRATES - EN 1433 - 3,372 LBS., 15kN, 70 P.S.I.**

Grate Part #	Description		Length (MM)	List Price	List Price (Per Foot)	Weight (Lbs.)	
<b>T100-PGA-13-FP</b>	Class A Galvanized Perforated Grate, 1 meter		39.37" (1000)	\$37.88	\$11.55	3.85	
<b>T100-PGA-13-FP-500</b>	Class A Galvanized Perforated Grate, 1/2 meter		19.69" (500)	\$22.73	\$13.86	2.09	
<b>T100-PGA-3-FP</b>	Class A Stainless Steel Perforated Grate, 1 meter		39.37" (1000)	\$223.86	\$68.25	3.85	
<b>T100-PGA-3-FP-500</b>	Class A Stainless Steel Perforated Grate, 1/2 meter		19.69" (500)	\$134.32	\$81.90	2.09	
<b>T100-PGA-13-FS</b>	Class A Galvanized Slotted Grate, 1 meter		39.37" (1000)	\$37.88	\$11.55	3.08	
<b>T100-PGA-13-FS-500</b>	Class A Galvanized Slotted Grate, 1/2 meter		19.69" (500)	\$22.73	\$13.86	2.86	
<b>T100-PGA-3-FS</b>	Class A Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	\$223.86	\$68.25	3.12	
<b>T100-PGA-3-FS-500</b>	Class A Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	\$134.32	\$81.90	2.42	
<b>T100-PGA-3-SM</b>	Class A Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	\$327.45	\$99.83	5.72	
<b>T100-PGA-3-SM-500</b>	Class A Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	\$187.97	\$114.62	3.08	









**LOAD CLASS B GRATES - EN 1433 - 28,100 LBS., 125kN, 580 P.S.I.**

<b>T100-PGB-13-LS</b>	Class B Galvanized Longitudinal Grate, 1 meter		39.37" (1000)	\$161.79	\$49.33	8.80	
<b>T100-PGB-13-LS-500</b>	Class B Galvanized Longitudinal Grate, 1/2 meter		19.69" (500)	\$89.87	\$54.80	4.37	
<b>T100-PGB-3-LS</b>	Class B Stainless Steel Longitudinal Grate, 1 meter		39.37" (1000)	\$1,118.51	\$341.01	8.80	
<b>T100-PGB-3-LS-500</b>	Class B Stainless Steel Longitudinal Grate, 1/2 meter		19.69" (500)	\$792.15	\$483.02	4.37	

**LOAD CLASS C GRATES - EN 1433 - 56,200 LBS., 250kN, 1,160 P.S.I.**

<b>T100-PGC-13-FP</b>	Class C Galvanized Perforated Grate, 1 meter		39.37" (1000)	\$261.74	\$79.80	9.04	
<b>T100-PGC-13-FP-500</b>	Class C Galvanized Perforated Grate, 1/2 meter		19.69" (500)	\$157.05	\$95.76	4.51	
<b>T100-PGC-3-FP</b>	Class C Stainless Steel Perforated Grate, 1 meter		39.37" (1000)	\$526.93	\$160.65	9.04	
<b>T100-PGC-3-FP-500</b>	Class C Stainless Steel Perforated Grate, 1/2 meter		19.69" (500)	\$316.16	\$192.78	4.51	
<b>T100-PGC-13-FS</b>	Class C Galvanized Slotted Grate, 1 meter		39.37" (1000)	\$261.74	\$79.80	9.68	
<b>T100-PGC-13-FS-500</b>	Class C Galvanized Slotted Grate, 1/2 meter		19.69" (500)	\$157.05	\$95.76	4.59	
<b>T100-PGC-3-FS</b>	Class C Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	\$526.93	\$160.65	9.32	
<b>T100-PGC-3-FS-500</b>	Class C Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	\$316.16	\$192.78	4.62	
<b>T100-PGC-13-GM</b>	Class C Galvanized Mesh Grate, 1 meter		39.37" (1000)	\$272.08	\$82.95	11.50	
<b>T100-PGC-13-GM-500</b>	Class C Galvanized Mesh Grate, 1/2 meter		19.69" (500)	\$163.24	\$99.54	5.80	
<b>T100-PGC-3-SM</b>	Class C Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	\$852.53	\$259.92	11.50	
<b>T100-PGC-3-SM-500</b>	Class C Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	\$612.98	\$373.77	5.80	
<b>T100-PGC-13-SD</b>	Class C Galvanized Paverslot Grate, 1 meter		39.37" (1000)	\$654.36	\$199.50	10.25	
<b>T100-PGC-13-SD-500</b>	Class C Galvanized Paverslot Grate, 1/2 meter		19.69" (500)	\$392.62	\$239.40	5.23	
<b>T100-PGC-13-SD-MU-500</b>	Class C Galvanized Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	\$433.27	\$264.19	7.43	
<b>T100-PGC-3-SD</b>	Class C Stainless Steel Paverslot Grate, 1 meter		39.37" (1000)	\$1,322.50	\$403.20	10.07	
<b>T100-PGC-3-SD-500</b>	Class C Stainless Steel Paverslot Grate, 1/2 meter		19.69" (500)	\$793.50	\$483.84	5.06	
<b>T100-PGC-3-SD-MU-500</b>	Class C Stainless Steel Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	\$816.40	\$497.80	7.43	
<b>T100-PGC-HPP</b>	Class C Plastic Slotted Grate, 1/2 meter		19.69" (500)	\$206.64	\$126.00	2.35	
<b>T100-PGC-4</b>	Class C Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	\$46.49	\$28.35	7.26	
<b>T100-PGC-4-HP</b>	Class C Ductile Iron, Heelproof Slotted Grate, 1/2 meter		19.69" (500)	\$89.30	\$54.45	7.26	
<b>T100-PGC-4-WVY</b>	Class C Ductile Iron, WAVE Grate, 1/2 meter		19.69" (500)	\$89.54	\$54.60	10.12	
<b>T100-PGC-4-BG</b>	Class C Ductile Iron, Bavaria Grate, 1/2 meter		19.69" (500)	\$89.54	\$54.60	6.60	
<b>T100-SCC-4</b>	Class C Ductile Iron Solid Cover, 1/2 meter		19.69" (500)	\$89.54	\$54.60	13.00	

**LOAD CLASS E GRATES - EN 1433 - 134,800 LBS., 600kN, 2,785 P.S.I.**

<b>T100-PGE-13-FS</b>	Class E Galvanized Slotted Grate, 1 meter		39.37" (1000)	\$220.58	\$67.25	9.68	
<b>T100-PGE-13-FS-500</b>	Class E Galvanized Slotted Grate, 1/2 meter		19.69" (500)	\$141.67	\$86.38	4.59	
<b>T100-PGE-3-FS</b>	Class E Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	\$706.13	\$215.28	9.32	
<b>T100-PGE-3-FS-500</b>	Class E Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	\$423.69	\$258.35	4.62	
<b>T100-PGE-4</b>	Class E Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	\$75.77	\$46.20	8.36	
<b>T100-PGE-4-13</b>	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	\$96.43	\$58.80	8.36	
<b>T100-PGE-4-HP</b>	Class E Ductile Iron, Heelproof Slotted Grate, 1/2 meter		19.69" (500)	\$134.32	\$81.90	8.36	
<b>T100-PGE-4-ADA</b>	Class E Ductile Iron, Longitudinal Grate, 1/2 meter		19.69" (500)	\$134.32	\$81.90	10.70	
<b>T100-PGE-4-ADA-13</b>	Class E Galvanized Ductile Iron, Longitudinal Grate, 1/2 meter		19.69" (500)	\$201.47	\$122.85	10.70	



See page 12 for explanation of ADA compliant grates



See page 12 for explanation of Heelproof compliant grates

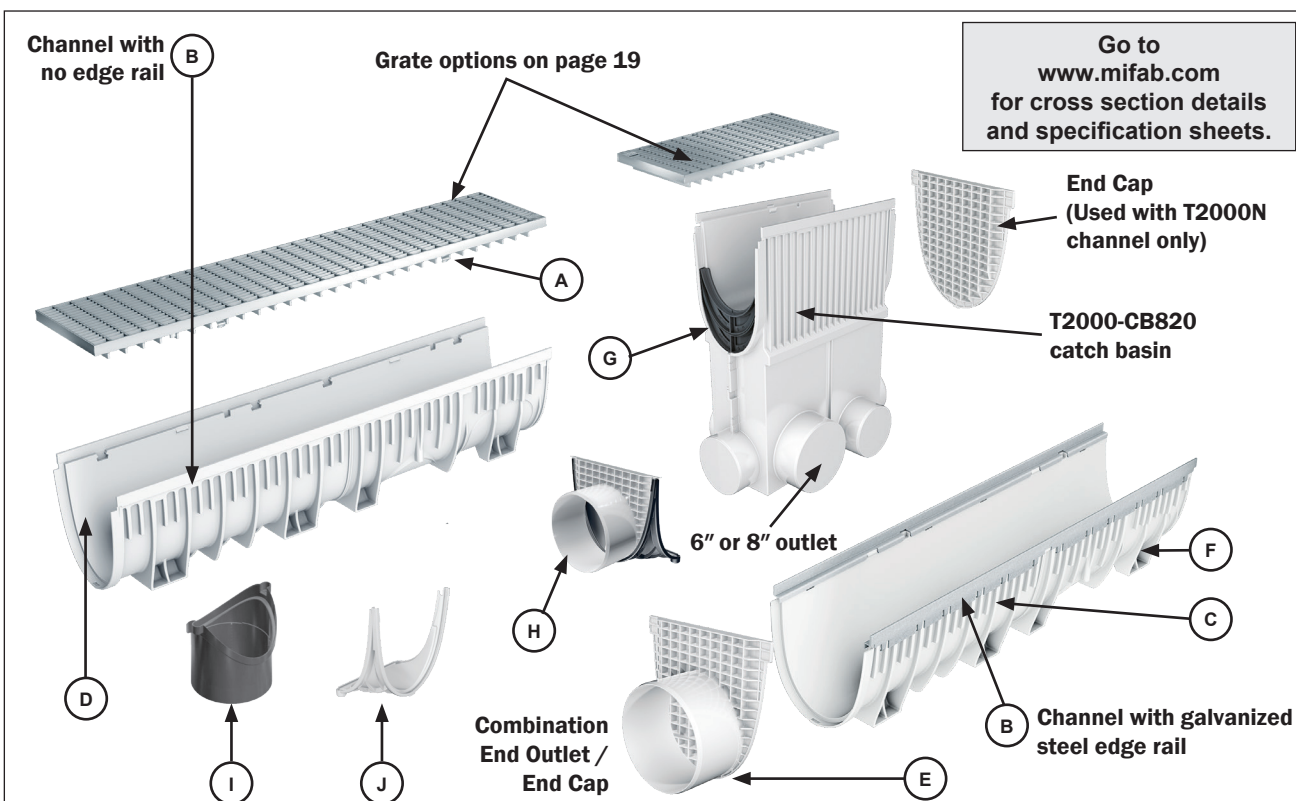
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MIFAB®, Inc., 1321 West 119th Street, Chicago, Illinois 60643-5109, USA  
All sales subject to MIFAB's Terms and Warranties, please refer to page no. 40.

## T2000 System Components and Features



- A. Innovative CLIPFIX grate locking mechanism. Grates made of ductile iron, galvanized and stainless steel.
- B. GRP channels with no edge rails and also with 4mm thick galvanized steel edge rails as per EN 1433.
- C. High strength of the drainage channel body enables Load Class A 15kN to Load Class E 600kN.
- D. Optimized flow cross section promotes self cleaning.
- E. Combination end cap / end outlet for either end of the channels for all depths.
- F. Deep-seated anchorage bays in the drainage channel body ensures mechanical attachment to the concrete Installation device attachment point.
- G. Four filler plates, one end cap and one sediment bucket are provided with every catch basin. For T2000N channel, use four filler plates, two on each side. For T2010 / T2010N channels, use one filler plate on each side and for T2020 / T2020N channels no filler plates are required.
- H. Side outlet connector.
- I. 6" No Hub Bottom outlet.
- J. Side channel adapter.



ADA grates are designed to have open slots no greater than 0.5 inches (13mm) wide in one direction. If the length of the slot is greater than 0.5 inches, the opening shall run perpendicular to the main direction.



Heelproof grates are designed to resist entry of pointed high heel shoes from entering the trench drain grate opening. ASME Standard A112.6.3, Section 7.12 defines Heelproof as: "A grate designed to resist entry of high-heeled shoes, in which the maximum grate hole size in least dimension shall be 5/16" (8mm) (0.31").

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## T2060 - 8" Internal Width - Shallow Channels

**T2060N-PB**  
Shallow Channel



**T2060N-PB-B04**  
Shallow Channel  
with integral 4" outlet



**T2000-CB820**  
Catch Basin








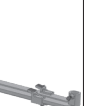



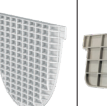
Go to [www.mifab.com](http://www.mifab.com) for cross section details and specification sheets.

NO EDGE RAILS		BODY TYPE	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE	WEIGHT (LESS GRATE)
Channel Model #	List Price, Each (1 Meter long)	Neutral - 0%	Min.	Max.	Min.	Max.	GPM	Lbs.
<b>T2060N-PB</b>	<b>\$525.00</b>	Neutral	3.54"	3.54"	3.94"	3.94"	260	7.45
<b>T2060N-PB-500</b> (1/2 Meter long)	<b>\$342.50</b>	Neutral	3.54"	3.54"	3.94"	3.94"	260	3.73
<b>T2060N-PB-B04</b>	<b>\$525.00</b>	Neutral	3.54"	3.54"	3.94"	3.94"	260	7.45
<b>T2060N-SVF</b>	<b>\$157.50</b>	Type 304 Stainless Steel veneer frame for all T2000 and T2060N no edge channels						

## Catch Basins For T2000 and T2060 Channels

GALVANIZED STEEL INTEGRAL RAILS		NO EDGE RAILS		BODY TYPE	INVERT DEPTH		OVERALL DEPTH		WEIGHT (LESS GRATE)
Catch Basin Model #	List Price, Each (1/2 Meter long)	Catch Basin Model #	List Price, Each (1/2 Meter long)	Neutral - 0%	Min.	Max.	Min.	Max.	Lbs.
<b>T2000-CB820-13</b>	<b>\$1,187.55</b>	<b>T2000-CB820</b>	<b>\$998.50</b>	Neutral	29.50"	29.50"	30.30"	30.30"	82.75
Replacement sediment bucket		<b>T2000-CB820-SB</b>	<b>\$281.40</b>						

NOTE: The T2000-CB820 catch basin includes the sediment bucket, four filler plates and end cap. Recommended channel connections to the catch basin can be best achieved using channel numbers T2000, T2010 and T2020.

 <b>MI-FLEX-400, 600, 800</b>	 <b>T2000-PBDS</b>	 <b>T2000-PEO6</b> Combination End Outlet / End Cap - 6"	 <b>T2000-PB06</b> Bottom Outlet - 6"	 <b>T2000-REB</b> (Installation Device) Two devices provided with every channel	 <b>T2000-SIDE-ADAPT</b> T2000-SIDE-ADAPT-0 - T2000N T2000-SIDE-ADAPT-10 - T2010N T2000-SIDE-ADAPT-20 - T2020N	 <b>T2000-SO6</b> Side outlet connector & End Outlet assembled T2000-SO6 - T2000N T2010-SO6 - T2010N T2020-SO6 - T2020N	 <b>T2000-PEC</b> End Cap	 <b>T2060-PEC</b> Closed End Cap for T2060N Channels	 <b>MI-4ADAPT</b> 4" PVC x 4" N.P.T. Adapter
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MODEL #	DESCRIPTION	MATERIAL	LIST PRICE	WEIGHT (Lbs.)
<b>MI-FLEX-400</b>	4" Flexible rubber coupling to connect 4" No Hub vertical and horizontal channel outlets to drainage pipe.	Rubber	<b>\$18.00</b>	0.50
<b>MI-FLEX-600</b>	6" Flexible rubber coupling to connect 6" No Hub vertical and horizontal channel outlets to drainage pipe.	Rubber	<b>\$25.00</b>	0.75
<b>MI-FLEX-800</b>	8" Flexible rubber coupling to connect 8" No Hub vertical and horizontal channel outlets to drainage pipe.	Rubber	<b>\$33.00</b>	0.75
<b>T2000-PBDS</b>	Bottom Outlet Strainer	Stainless Steel	<b>\$107.00</b>	0.20
<b>T2000-PEO6</b>	6" No Hub End outlet / end cap and combination front / end cap	Plastic	<b>\$81.00</b>	0.44
<b>T2000-PB06</b>	6" No Hub Bottom outlet	Plastic	<b>\$81.00</b>	0.50
<b>T2000-REB</b>	Replacement Installation Device	Plastic	<b>\$47.25</b>	0.22
<b>T2000-SIDE-ADAPT-0</b>	Side Outlet Adapter for T2000N channel	Plastic	<b>\$80.75</b>	0.60
<b>T2000-SIDE-ADAPT-10</b>	Side Outlet Adapter for T2010N channel	Plastic	<b>\$80.75</b>	0.60
<b>T2000-SIDE-ADAPT-20</b>	Side Outlet Adapter for T2020N channel	Plastic	<b>\$80.75</b>	0.60
<b>T2000-SO6</b>	Side Outlet Connector (T2000-SIDE-ADAPT-0 & T2000-PEO6 for T2000N)	Plastic	<b>\$161.75</b>	0.44
<b>T2010-SO6</b>	Side Outlet Connector (T2000-SIDE-ADAPT-10 & T2000-PEO6 for T2010N)	Plastic	<b>\$161.75</b>	0.44
<b>T2020-SO6</b>	Side Outlet Connector (T2000-SIDE-ADAPT-20 & T2000-PEO6 for T2020N)	Plastic	<b>\$161.75</b>	0.44
<b>T2000-PEC</b>	Closed End Cap	Plastic	<b>\$81.00</b>	0.30
<b>T2060-PEC</b>	Closed End Cap for T2060N channels	Plastic	<b>\$81.00</b>	0.30
<b>MI-4ADAPT</b>	4" PVC x 4" N.P.T. adapter coupling to install around bottom outlet to connect to MIFAB A1 body for waterproofing applications	Plastic	<b>\$25.00</b>	0.20

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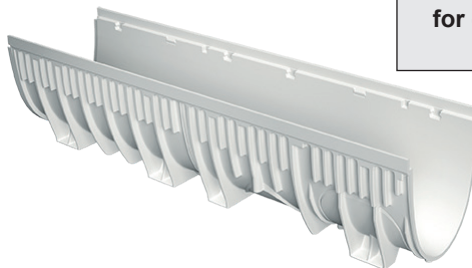
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**T2000-13 Channel**  
(with galvanized steel edge rail)



**T2000 Channel**  
(with no edge rail)

Go to [www.mifab.com](http://www.mifab.com)  
for cross section details and  
specification sheets.

GALVANIZED STEEL INTEGRAL RAILS		NO EDGE RAILS		BODY TYPE	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE	WEIGHT (LESS GRATE)
Channel Model #	List Price, Each (1 Meter long)	Channel Model #	List Price, Each (1 Meter long)	Sloped - .5% Neutral - 0%	E1 Min.	E2 Max.	E1 Min.	E2 Max.	GPM	Lbs.
<b>T2000N-PB-13</b>	<b>\$750.75</b>	<b>T2000N-PB</b>	<b>\$564.75</b>	Neutral	8.74"	8.74"	9.53"	9.53"	525	13.23
<b>T2000N-PB-13-500</b> (half meter long channel)	<b>\$450.50</b>	<b>T2000N-PB-500</b> (half meter long channel)	<b>\$339.00</b>	Neutral	8.74"	8.74"	9.53"	9.53"	525	7.39
<b>T2000N-PB-13-500-DC</b> (half meter long channel, direction change)	<b>\$450.50</b>	<b>T2000N-PB-500-DC</b> (half meter long channel, direction change)	<b>\$339.00</b>	Neutral	8.74"	8.74"	9.53"	9.53"	525	7.39
<b>T2001-PB-13</b>	<b>\$750.75</b>	<b>T2001-PB</b>	<b>\$564.75</b>	Sloped	8.74"	8.93"	9.53"	9.73"	580	13.36
<b>T2002-PB-13</b>	<b>\$750.75</b>	<b>T2002-PB</b>	<b>\$564.75</b>	Sloped	8.93"	9.13"	9.73"	9.93"	605	13.52
<b>T2003-PB-13</b>	<b>\$750.75</b>	<b>T2003-PB</b>	<b>\$564.75</b>	Sloped	9.13"	9.33"	9.93"	10.12"	632	13.69
<b>T2004-PB-13</b>	<b>\$750.75</b>	<b>T2004-PB</b>	<b>\$564.75</b>	Sloped	9.33"	9.53"	10.12"	10.32"	650	13.86
<b>T2005-PB-13</b>	<b>\$750.75</b>	<b>T2005-PB</b>	<b>\$564.75</b>	Sloped	9.53"	9.72"	10.32"	10.52"	686	14.03
<b>T2006-PB-13</b>	<b>\$750.75</b>	<b>T2006-PB</b>	<b>\$564.75</b>	Sloped	9.72"	9.92"	10.52"	10.71"	715	14.19
<b>T2007-PB-13</b>	<b>\$750.75</b>	<b>T2007-PB</b>	<b>\$564.75</b>	Sloped	9.92"	10.12"	10.71"	10.91"	759	14.36
<b>T2008-PB-13</b>	<b>\$750.75</b>	<b>T2008-PB</b>	<b>\$564.75</b>	Sloped	10.12"	10.31"	10.91"	11.11"	789	14.53
<b>T2009-PB-13</b>	<b>\$750.75</b>	<b>T2009-PB</b>	<b>\$564.75</b>	Sloped	10.31"	10.51"	11.11"	11.30"	819	14.70
<b>T2010-PB-13</b>	<b>\$750.75</b>	<b>T2010-PB</b>	<b>\$564.75</b>	Sloped	10.51"	10.71"	11.30"	11.50"	850	14.86
<b>T2010N-PB-13</b>	<b>\$750.75</b>	<b>T2010N-PB</b>	<b>\$564.75</b>	Neutral	10.71"	10.71"	11.50"	11.50"	850	15.65
<b>T2010N-PB-13-500</b> (half meter long channel)	<b>\$450.50</b>	<b>T2010N-PB-500</b> (half meter long channel)	<b>\$339.00</b>	Neutral	10.71"	10.71"	11.50"	11.50"	850	7.83
<b>T2010N-PB-13-500-DC</b> (half meter long channel, direction change)	<b>\$450.50</b>	<b>T2010N-PB-500-DC</b> (half meter long channel, direction change)	<b>\$339.00</b>	Neutral	10.71"	10.71"	11.50"	11.50"	850	7.83
<b>T2011-PB-13</b>	<b>\$750.75</b>	<b>T2011-PB</b>	<b>\$564.75</b>	Sloped	10.71"	10.90"	11.50"	11.70"	881	15.03
<b>T2012-PB-13</b>	<b>\$750.75</b>	<b>T2012-PB</b>	<b>\$564.75</b>	Sloped	10.90"	11.10"	11.70"	11.89"	915	15.20
<b>T2013-PB-13</b>	<b>\$750.75</b>	<b>T2013-PB</b>	<b>\$564.75</b>	Sloped	11.10"	11.30"	11.89"	12.09"	948	15.37
<b>T2014-PB-13</b>	<b>\$750.75</b>	<b>T2014-PB</b>	<b>\$564.75</b>	Sloped	11.30"	11.49"	12.09"	12.29"	983	15.53
<b>T2015-PB-13</b>	<b>\$750.75</b>	<b>T2015-PB</b>	<b>\$564.75</b>	Sloped	11.49"	11.69"	12.29"	12.49"	1018	15.70
<b>T2016-PB-13</b>	<b>\$750.75</b>	<b>T2016-PB</b>	<b>\$564.75</b>	Sloped	11.69"	11.89"	12.49"	12.68"	1052	15.87
<b>T2017-PB-13</b>	<b>\$750.75</b>	<b>T2017-PB</b>	<b>\$564.75</b>	Sloped	11.89"	12.08"	12.68"	12.88"	1119	16.04
<b>T2018-PB-13</b>	<b>\$750.75</b>	<b>T2018-PB</b>	<b>\$564.75</b>	Sloped	12.08"	12.28"	12.88"	13.08"	1155	16.20
<b>T2019-PB-13</b>	<b>\$750.75</b>	<b>T2019-PB</b>	<b>\$564.75</b>	Sloped	12.28"	12.48"	13.08"	13.27"	1194	16.37
<b>T2020-PB-13</b>	<b>\$750.75</b>	<b>T2020-PB</b>	<b>\$564.75</b>	Sloped	12.48"	12.67"	13.27"	13.47"	1233	16.54
<b>T2020N-PB-13</b>	<b>\$750.75</b>	<b>T2020N-PB</b>	<b>\$564.75</b>	Neutral	12.67"	12.67"	13.47"	13.47"	1233	17.50
<b>T2020N-PB-13-500</b> (half meter long channel)	<b>\$450.50</b>	<b>T2020N-PB-500</b> (half meter long channel)	<b>\$339.00</b>	Neutral	12.67"	12.67"	13.47"	13.47"	1233	8.75
<b>T2020N-PB-13-500-DC</b> (half meter long channel, direction change)	<b>\$450.50</b>	<b>T2020N-PB-500-DC</b> (half meter long channel, direction change)	<b>\$339.00</b>	Neutral	12.67"	12.67"	13.47"	13.47"	1233	8.75

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**LOAD CLASS A GRATES - EN 1433 - 3,372 LBS., 15kN, 70 P.S.I.**

Grate Part #	Description	Length (MM)	List Price	List Price (Per Foot)	Weight (Lbs.)
<b>T200-PGA-13-GM</b>	Class A Galvanized Mesh Grate, 1 meter	39.37" (1000)	\$324.45	\$98.92	13.13
<b>T200-PGA-13-GM-500</b>	Class A Galvanized Mesh Grate, 1/2 meter	19.69" (500)	\$224.35	\$136.80	6.82
<b>T200-PGA-3-SM</b>	Class A Stainless Steel Mesh Grate, 1 meter	39.37" (1000)	\$1,856.30	\$565.95	13.13
<b>T200-PGA-3-SM-500</b>	Class A Stainless Steel Mesh Grate, 1/2 meter	19.69" (500)	\$1,104.15	\$673.26	6.82


**LOAD CLASS B GRATES - EN 1433 - 28,100 LBS., 125kN, 580 P.S.I.**

<b>T200-PGB-13-LS</b>	Class B Galvanized Longitudinal Grate, 1 meter	39.37" (1000)	\$365.72	\$111.50	16.02
<b>T200-PGB-13-LS-500</b>	Class B Galvanized Longitudinal Grate, 1/2 meter	19.69" (500)	\$237.86	\$145.04	8.38
<b>T200-PGB-3-LS</b>	Class B Stainless Longitudinal Grate, 1 meter	39.37" (1000)	\$1,856.30	\$565.95	16.32
<b>T200-PGB-3-LS-500</b>	Class B Stainless Longitudinal Grate, 1/2 meter	19.69" (500)	\$1,104.15	\$673.26	8.31


**LOAD CLASS C GRATES - EN 1433 - 56,200 LBS., 250kN, 1,160 P.S.I.**

<b>T200-PGC-13-FP</b>	Class C Galvanized Perforated Grate, 1 meter	39.37" (1000)	\$995.30	\$303.45	24.33
<b>T200-PGC-13-FP-500</b>	Class C Galvanized Perforated Grate, 1/2 meter	19.69" (500)	\$700.10	\$426.89	11.66
<b>T200-PGC-3-FP</b>	Class C Stainless Steel Perforated Grate, 1 meter	39.37" (1000)	\$1,728.85	\$527.09	24.33
<b>T200-PGC-3-FP-500</b>	Class C Stainless Steel Perforated Grate, 1/2 meter	19.69" (500)	\$1,210.55	\$738.14	11.66



<b>T200-PGC-13-GM</b>	Class C Galvanized Mesh Grate, 1 meter	39.37" (1000)	\$692.05	\$211.00	24.33
<b>T200-PGC-13-GM-500</b>	Class C Galvanized Mesh Grate, 1/2 meter	19.69" (500)	\$422.00	\$257.32	11.66
<b>T200-PGC-3-SM</b>	Class C Stainless Steel Mesh Grate, 1 meter	39.37" (1000)	\$2,282.20	\$695.79	24.33
<b>T200-PGC-3-SM-500</b>	Class C Stainless Steel Mesh Grate, 1/2 meter	19.69" (500)	\$1,470.75	\$896.80	11.66



<b>T200-PGC-3-SBG</b>	Class C Stainless Steel Bar Grate, 1 meter	39.37" (1000)	\$2,069.85	\$631.05	26.25
<b>T200-PGC-3-SBG-500</b>	Class C Stainless Steel Bar Grate, 1/2 meter	19.69" (500)	\$1,448.65	\$883.32	14.50

**Avail.  
June/22**


<b>T200-PGC-13-SD</b>	Class C Galvanized Paverslot Grate, 1 meter	39.37" (1000)	\$504.35	\$153.77	47.08
<b>T200-PGC-13-SD-500</b>	Class C Galvanized Paverslot Grate, 1/2 meter	19.69" (500)	\$394.70	\$240.67	23.54
<b>T200-PGC-13-MU-500</b>	Class C Galvanized Maintenance Unit Paverslot, 1/2 meter	19.69" (500)	\$806.60	\$491.83	43.78



<b>T200-PGC-3-SD</b>	Class C Stainless Steel Paverslot Grate, 1 meter	39.37" (1000)	\$1,035.75	\$315.78	47.08
<b>T200-PGC-3-SD-500</b>	Class C Stainless Steel Paverslot Grate, 1/2 meter	19.69" (500)	\$742.80	\$452.93	23.54
<b>T200-PGC-3-MU-500</b>	Class C Stainless Steel Maintenance Unit Paverslot, 1/2 meter	19.69" (500)	\$1,252.45	\$763.69	43.78



<b>T200-PGC-4</b>	Class C Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	\$108.50	\$66.16	13.79
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<b>T200-PGC-4-HP</b>	Class C Ductile Iron, Heelproof Slotted Grate, 1/2 meter	19.69" (500)	\$215.25	\$131.25	13.79
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<b>T200-PGC-4-WVY</b>	Class C Ductile Iron, WAVE Grate, 1/2 meter	19.69" (500)	\$215.25	\$131.25	13.86
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<b>T200-PGC-4-BG</b>	Class C Ductile Iron, Bavaria Grate, 1/2 meter	19.69" (500)	\$215.25	\$131.25	13.64
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**LOAD CLASS E GRATES - EN 1433 - 134,800 LBS., 600kN, 2,785 P.S.I.**

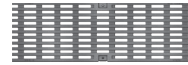
<b>T200-PGE-4</b>	Class E Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	\$186.00	\$113.41	19.25
<b>T200-PGE-4-13</b>	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	\$268.65	\$163.81	19.25



<b>T200-PGE-4-HP</b>	Class E Ductile Iron, Heelproof Slotted Grate, 1/2 meter	19.69" (500)	\$268.65	\$163.81	13.79
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<b>T200-PGE-4-ADA</b>	Class E Ductile Iron, Longitudinal Grate, 1/2 meter	19.69" (500)	\$268.65	\$163.81	21.25
<b>T200-PGE-4-ADA-13</b>	Class E Galvanized Ductile Iron, Longitudinal Grate, 1/2 meter	19.69" (500)	\$449.45	\$274.05	21.25



See page 16 for explanation of ADA compliant grates



See page 16 for explanation of Heelproof compliant grates

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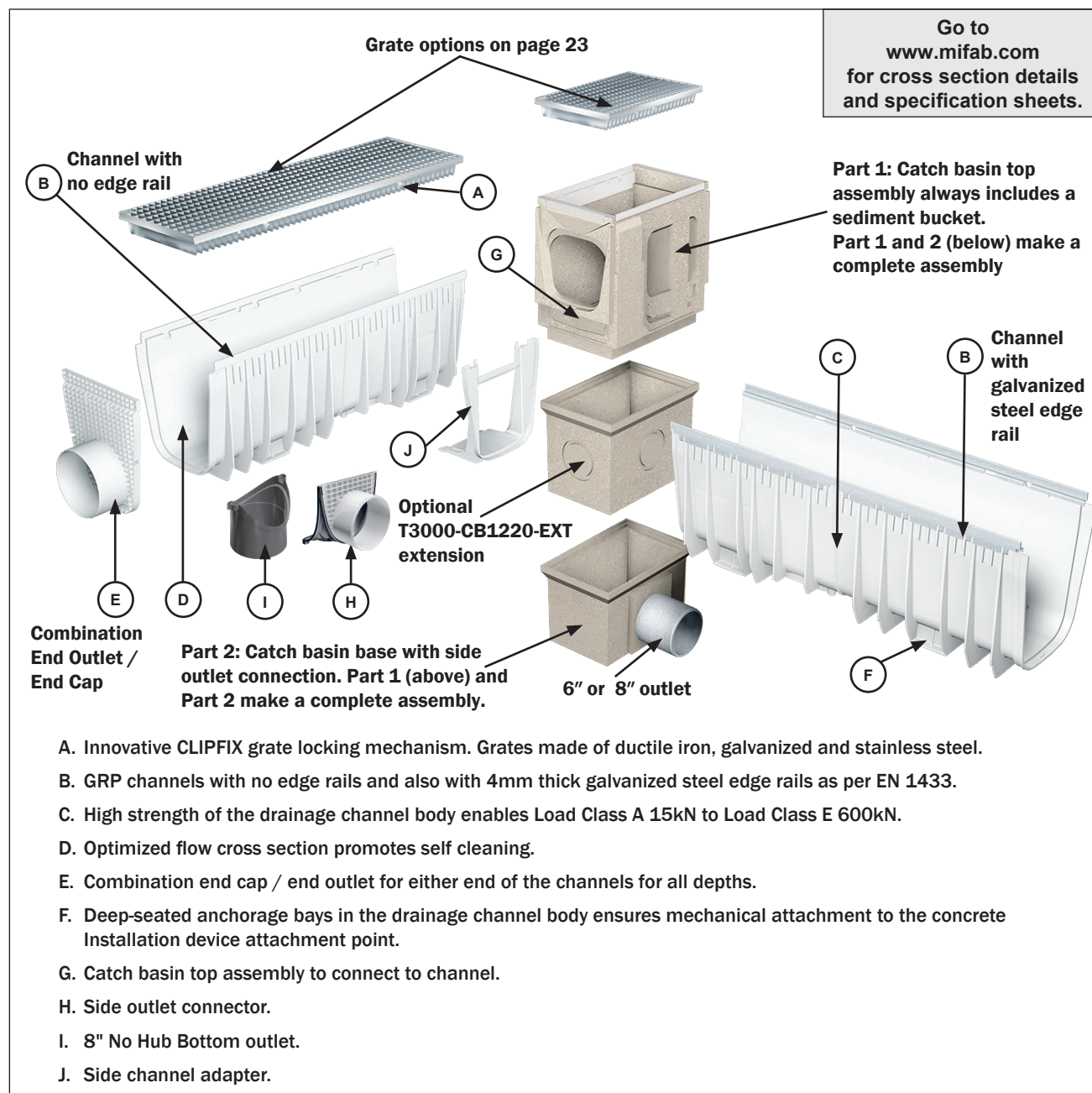
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## T3000 System Components and Feature



ADA grates are designed to have open slots no greater than 0.5 inches (13mm) wide in one direction. If the length of the slot is greater than 0.5 inches, the opening shall run perpendicular to the main direction.



Heelproof grates are designed to resist entry of pointed high heel shoes from entering the trench drain grate opening. ASME Standard A112.6.3, Section 7.12 defines Heelproof as: "A grate designed to resist entry of high-heeled shoes, in which the maximum grate hole size in least dimension shall be 5/16" (8mm) (0.31").

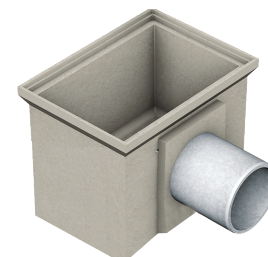
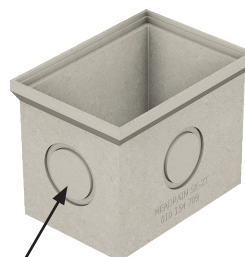
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## Catch Basins for T3000 Channels

### T3000-CB1220 Catch Basin (Polymer Concrete)

Edge rails available in GRP  
and galvanized steel




Go to [www.mifab.com](http://www.mifab.com)  
for cross section details and  
specification sheets.



Optional T3000-CB1220-EXT extension

GALVANIZED STEEL INTEGRAL RAILS		NO EDGE RAILS		INVERT DEPTH		OVERALL DEPTH		WEIGHT (LESS GRATE)
Catch Basin Model #	List Price, Each (1/2 Meter long)	Catch Basin Model #	List Price, Each (1/2 Meter long)	Min.	Max.	Min.	Max.	Lbs.
<b>T3000-CB1220-13-SO6</b>	<b>\$1,626.20</b>	<b>T3000-CB1220-SO6</b>	<b>\$1,345.00</b>	33.85"	33.85"	34.45"	34.45"	152.03
<b>T3000-CB1220-13-SO8</b>	<b>\$1,626.20</b>	<b>T3000-CB1220-SO8</b>	<b>\$1,345.00</b>	33.85"	33.85"	34.45"	34.45"	152.03
Optional extension piece to install between base & top assembly for deeper inverts.		<b>T3000-CB1220-EXT</b>	<b>\$780.65</b>	-	-	14.75"	14.75"	48.50
Replacement sediment bucket.		<b>T3000-CB1220-SB</b>	<b>\$370.65</b>					

**NOTE:** The T3000-CB1220 catch basin includes the base, top assembly and sediment bucket.

						
<b>MI-FLEX-400, 600, 800</b>	<b>T3000-PBDS</b>	<b>T3000-PEO8</b> Combination End Outlet / End Cap - 8"	<b>T3000-PBO8</b> Bottom Outlet - 8"	<b>T3000-REB</b> (Installation Device) Two devices provided with every channel	<b>T3000-SIDE-ADAPT</b> Side channel adapter	<b>T3000-SO8</b> Side outlet connector & End Outlet assembled together - T3000-SO8

MODEL #	DESCRIPTION	MATERIAL	LIST PRICE	WEIGHT (Lbs.)
<b>MI-FLEX-600</b>	6" Flexible rubber coupling to connect 6" No Hub vertical and horizontal channel outlets to drainage pipe.	Rubber	<b>\$25.00</b>	0.75
<b>MI-FLEX-800</b>	8" Flexible rubber coupling to connect 8" No Hub vertical and horizontal channel outlets to drainage pipe.	Rubber	<b>\$33.00</b>	0.75
<b>MI-FLEX-1000</b>	10" Flexible rubber coupling to connect 10" No Hub vertical and horizontal channel outlets to drainage pipe.	Rubber	<b>\$59.00</b>	1.00
<b>T3000-PBDS</b>	Bottom Outlet Strainer	Stainless Steel	<b>\$325.50</b>	0.20
<b>T3000-PEO8</b>	8" No Hub End outlet / end cap and combination front / end cap	Plastic	<b>\$281.50</b>	3.80
<b>T3000-PBO8</b>	8" No Hub Bottom outlet	Plastic	<b>\$281.50</b>	0.80
<b>T3000-REB</b>	Replacement Installation Device	Galvanized Steel	<b>\$55.25</b>	7.50
<b>T3000-SO8</b>	8" Side Outlet Connector	Plastic	<b>\$381.50</b>	1.25
<b>T3000-SIDE-ADAPT</b>	Side Channel adapter	Plastic	<b>\$100.00</b>	1.00

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## T3000 GRP Channels



**T3000-13 Channel (with galvanized steel edge rail)**



**T3000 Channel (with no edge rail)**


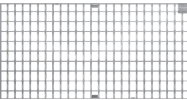




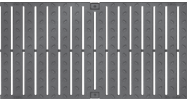

Go to [www.mifab.com](http://www.mifab.com) for cross section details and specification sheets.

GALVANIZED STEEL INTEGRAL RAILS		NO EDGE RAILS		BODY TYPE	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE	WEIGHT (LESS GRATE)
Channel Model #	List Price, Each (1 Meter long)	Channel Model #	List Price, Each (1 Meter long)	Neutral - 0%	E1 Min.	E2 Max.	E1 Min.	E2 Max.	GPM	Lbs.
<b>T3000N-PB-13</b>	<b>\$930.00</b>	<b>T3000N-PB</b>	<b>\$697.50</b>	Neutral	14.17"	14.17"	15.63"	15.63"	3245	26.01
<b>T3000N-PB-500-13</b>	<b>\$557.50</b> (half meter long channel)	<b>T3000N-PB-500</b>	<b>\$418.50</b> (half meter long channel)	Neutral	14.17"	14.17"	15.63"	15.63"	3245	15.12
<b>T3000N-PB-500-DC-13</b>	<b>\$557.50</b> (half meter long channel, direction change)	<b>T3000N-PB-500-DC</b>	<b>\$418.50</b> (half meter long channel, direction change)	Neutral	14.17"	14.17"	15.63"	15.63"	3245	15.12





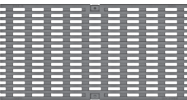


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#### LOAD CLASS C GRATES - EN 1433 - 56,200 LBS., 250kN, 967 P.S.I.

Grate Part #	Description		Length (MM)	List Price	List Price (Per Foot)	Weight (Lbs.)	
<b>T300-PGC-13-GM</b>	Class C Galvanized Mesh Grate, 1 meter		39.37" (1000)	<b>\$1,395.20</b>	<b>\$425.37</b>	68.53	
<b>T300-PGC-13-GM-500</b>	Class C Galvanized Mesh Grate, 1/2 meter		19.69" (500)	<b>\$669.50</b>	<b>\$408.23</b>	36.82	
<b>T300-PGC-3-SM</b>	Class C Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	<b>\$2,949.20</b>	<b>\$899.15</b>	68.53	
<b>T300-PGC-3-SM-500</b>	Class C Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	<b>\$2,326.30</b>	<b>\$1,418.48</b>	36.82	
<b>T300-PGC-3-SBG</b>	Class C Stainless Steel Bar Grate, 1 meter		39.37" (1000)	<b>\$2,538.25</b>	<b>\$773.86</b>	62.25	
<b>T300-PGC-3-SBG-500</b>	Class C Stainless Steel Bar Grate, 1/2 meter		19.69" (500)	<b>\$1,628.50</b>	<b>\$992.99</b>	34.00	
<b>T300-PGC-4</b>	Class C Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	<b>\$136.00</b>	<b>\$82.93</b>	29.23	
<b>T300-PGC-4-HP</b>	Class C Ductile Iron, Heelproof Slotted Grate, 1/2 meter		19.69" (500)	<b>\$223.85</b>	<b>\$136.49</b>	29.23	
<b>T300-PGC-4-WVY</b>	Class C Ductile Iron, WAVE Grate, 1/2 meter		19.69" (500)	<b>\$412.85</b>	<b>\$251.74</b>	34.10	

#### LOAD CLASS E GRATES - EN 1433 - 134,800 LBS., 600kN, 2,321 P.S.I.

<b>T300-PGE-4</b>	Class E Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	<b>\$452.00</b>	<b>\$275.61</b>	42.02	
<b>T300-PGE-4-13</b>	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	<b>\$542.50</b>	<b>\$330.79</b>	42.02	
<b>T300-PGE-4-HP</b>	Class E Ductile Iron, Heelproof Slotted Grate, 1/2 meter		19.69" (500)	<b>\$452.00</b>	<b>\$275.61</b>	42.02	
<b>T300-PGE-4-ADA</b>	Class E Ductile Iron, Longitudinal Slotted Grate, 1/2 meter		19.69" (500)	<b>\$452.00</b>	<b>\$275.61</b>	63.80	
<b>T300-PGE-4-ADA-13</b>	Class E Galvanized Ductile Iron, Longitudinal Slotted Grate, 1/2 meter		19.69" (500)	<b>\$542.50</b>	<b>\$330.79</b>	63.80	
<b>T300-SCE-4</b>	Class E Ductile Iron Solid Cover, 1/2 meter		19.69" (500)	<b>\$372.50</b>	<b>\$227.13</b>	66.00	



See page 20 for explanation of ADA compliant grates



See page 20 for explanation of Heelproof compliant grates

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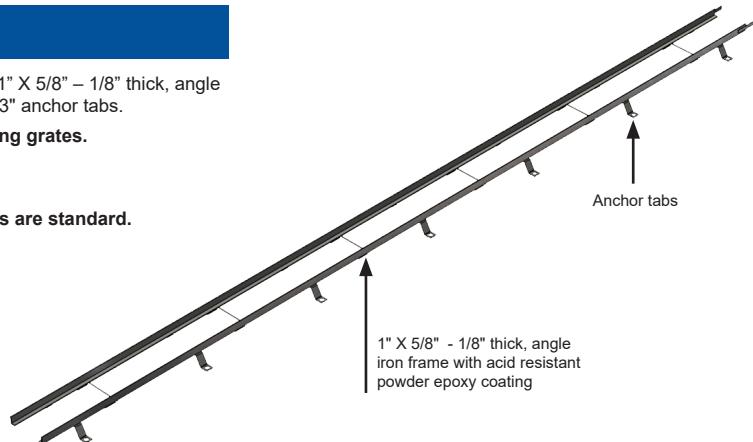
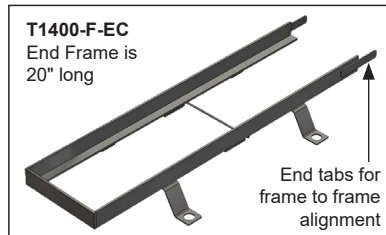
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## T1400-F - 4" Internal Width, Frame

**SPECIFICATION:** MIFAB® Series T1400-F, 4" internal width 1" X 5/8" – 1/8" thick, angle iron frame with acid resistant powder epoxy coating and 1" X 3" anchor tabs.

**Frames can accommodate all T100 Series ClipFix self locking grates.**

**Note: Must order in 20" long increments. 10' long sections are standard.**



Model Number	Description	List Price
<b>T1400-F</b>	4" internal width, powder epoxy coated steel frame	<b>\$137.50/ Foot</b>
<b>T1400-F-13</b>	4" internal width, galvanized steel frame	<b>\$235.00/ Foot</b>
<b>T1400-F-EC</b>	4" internal width, powder epoxy coated steel end frame, with two securing screws	<b>\$55.25, each</b>
<b>T1400-F-EC-13</b>	4" internal width, galvanized steel end frame, with two securing screws	<b>\$88.25, each</b>

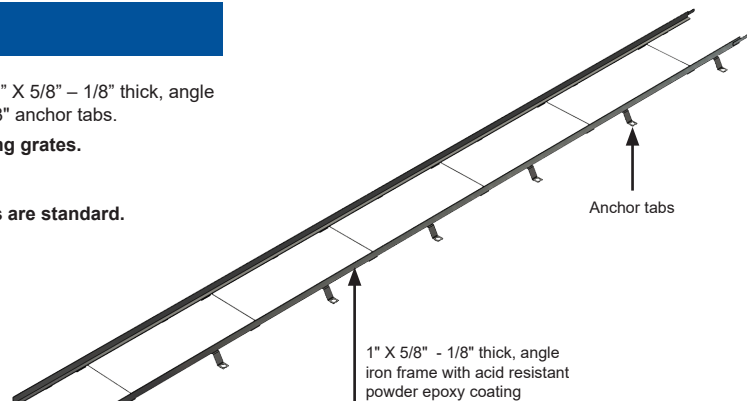
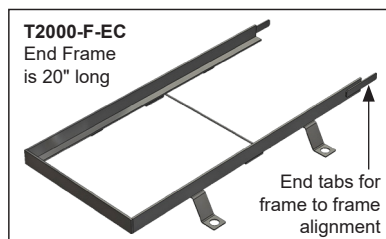
**Note: Must order in 20" long increments. 10' long sections are standard.**

## T2000-F - 8" Internal Width, Frame

**SPECIFICATION:** MIFAB® Series T2000-F, 8" internal width 1" X 5/8" – 1/8" thick, angle iron frame with acid resistant powder epoxy coating and 1" X 3" anchor tabs.

**Frames can accommodate all T200 Series ClipFix self locking grates.**

**Note: Must order in 20" long increments. 10' long sections are standard.**



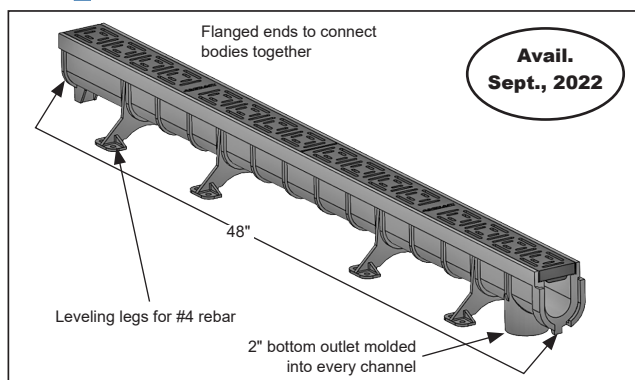
Model Number	Description	List Price
<b>T2000-F</b>	8" internal width, powder epoxy coated steel frame	<b>\$237.25/ Foot</b>
<b>T2000-F-13</b>	8" internal width, galvanized steel frame	<b>\$293.50/ Foot</b>
<b>T2000-F-EC</b>	8" internal width, powder epoxy coated steel end frame, with two securing screws	<b>\$99.25, each</b>
<b>T2000-F-EC-13</b>	8" internal width, galvanized steel end frame, with two securing screws	<b>\$132.25, each</b>

**Note: Must order in 20" long increments. 10' long sections are standard.**

Note: Custom designs are available. Contact MIFAB®

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.




**SPECIFICATION:**

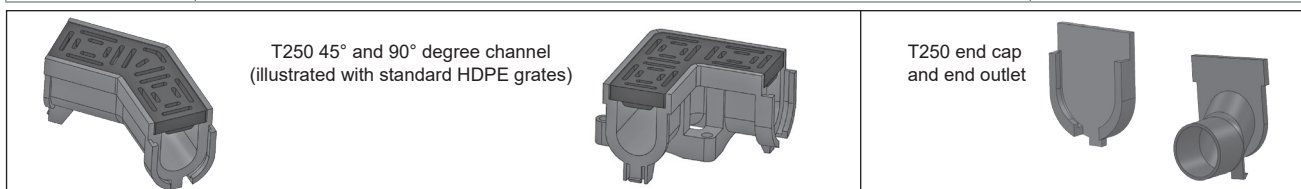
MIFAB® Series T250, 2" Internal width, 3" deep, 48" long, non sloped channel with two 24" long HDPE grates. Channel is manufactured from gray UV-10 stabilized High Density Polyethylene (H.D.P.E.). Each channel has leveling legs for #4 rebar tie down and leveling. Channels have interlocking ends to connect to each other. 2" bottom outlet molded into every channel. 2" end outlets and end caps are available.

MODEL NUMBER	Description	List Price, Per Foot
T250	2" internal width, High Density Polyethylene (H.D.P.E.). channel with two 24" long HDPE grates.	\$50.40

"MIFAB has excellent trench drain product backed up by better customer service." — Randy Lowe, Owner, Randall Lowe Plumbing, Atlanta, GA

Grates		
Order Guide Suffix	Description	List Price, Per Foot, Add
PGA-SSDA	Stainless Steel, Decorative grate - Class A, 48" long	\$325.50
PGA-SSWG	Stainless Steel, Wedgewire grate - Class A, 48" long	\$419.00
End Caps / Outlets / Accessories		
Order Guide Suffix	Description	List Price, Each
-PEC	Closed end cap	\$13.75
-PEO2	2" no hub end outlet	\$13.75
MI-FLEX-200	2" Flexible rubber coupling to connect 2" No Hub end outlet to drainage pipe	\$13.75

45° and 90° Degree Fabrications		
Order Guide Suffix	Description	List Price, Each
-PB-45	45° Degree Channel Section with Channel Section with HDPE grate, Class A	\$58.50
-PB-90	90° Degree Channel Section with Channel Section with HDPE grate, Class A	\$58.50
-PB-45-SSDA	45° Degree Channel Section with Stainless Steel, Decorative grate, Class A	\$145.00
-PB-90-SSDA	90° Degree Channel Section with Stainless Steel, Decorative grate, Class A	\$145.00
-PB-45-SSWG	45° Degree Channel Section with Stainless Steel, Wedgewire grate, Class A	\$284.50
-PB-90-SSWG	90° Degree Channel Section with Stainless Steel, Wedgewire grate, Class A	\$284.50



## Grates for T250 Trench Drain System



T250-PG-SSDA



T250-PG-SSWG



T250-PG-HP

Grate Part Number	Suffix	Description	Material	Weight (lbs./ft.)	Length	Free Area (sq. in. per ft.)	Slot Width / Hole Size	ADA	Load Ratings			
									DIN	ANSI	H-20	FAA
T250-HP	-HP	Decorative	H.D.P.E.	0.70	2 pcs. x 24" each	9.00	0.25"	Yes	A	Light Duty	No	No
T250-PG-SSDA	-SSDA	Decorative	Stainless Steel	1.30	48"	11.00	0.25"	Yes	A	Light Duty	No	No
T250-PG-SSWG	-SSWG	Wire Grate	Stainless Steel	1.25	48"	18.00	0.25"	Yes	A	Light Duty	No	No

Note: Custom grate designs are available. Contact MIFAB®

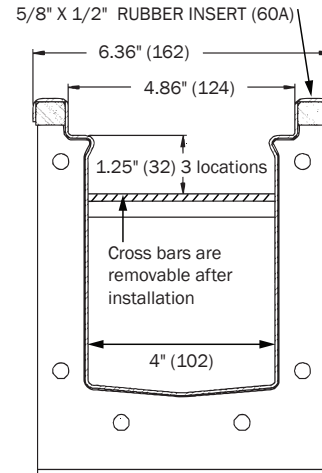
Go to [www.mifab.com](http://www.mifab.com) for the T250 Cross Section detail & specification sheet

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Visit [www.mifab.com](http://www.mifab.com) for the most recent product information. Design and dimensions are subject to modification. Prices do not include applicable taxes.

Toll Free: 1-800-465-2736, Fax: 1-773-341-3049  
sales@mifab.com Canada Toll Free: 1-800-387-3880

MIFAB®, Inc., 1321 West 119th Street, Chicago, Illinois 60643-5109, USA  
All sales subject to MIFAB®'s Terms and Warranties, please refer to page no. 40.



## ACCESSORIES

		LIST PRICE (ADD)
-6	Vandal Proof grates (center lockdown)	\$13.75
-7MG	MI-GARD Trap Seal Protection device (3" or 4")	\$92.65
-20	Bottom outlet strainer	\$399.00
-45	45° Degree fabricated body (T1330-45)	\$1,103.00
-90	90° Degree fabricated body (T1330-90)	\$1,654.00
-TEE	Tee fabricated body	\$2,205.00
-C	Membrane Clamp (includes anchor flange)	\$240.50 / foot
-CB	Catch Basin (Part # P6060-CB620) (1/2 meter long, w/sediment bucket, transition plates and hardware kit)	\$2,591.00
-CF	Cross fabricated body	\$2,205.00
-EC	Closed End Cap (T1330-PEC)	\$220.50
-EO	3" or 4" No Hub End Outlet (T1330-PE03, T1330-PE04)	\$220.50
-FL	Anchor (waterproofing) flange	\$145.75 / foot
MI-FLEX-300	3" Flexible rubber coupling to connect 3" No Hub vertical and horizontal channel outlets to drainage pipe	\$15.75
MI-FLEX-400	4" Flexible rubber coupling to connect 4" No Hub vertical and horizontal channel outlets to drainage pipe	\$18.00

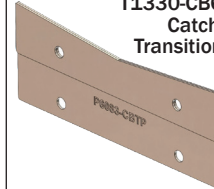
### SPECIFICATION:

MIFAB® Series T1330, 4" internal width, 16 gauge fabricated, powder epoxy coated steel presloped trench drain (1%) with optional grates (see page 27). Channels are available in one and two meter lengths, have flanged ends to connect to each other with a neoprene gasket. Bottom and end outlets are available in 3" or 4" no hub outlet connections. Also available with optional anchor flange (Suffix -FL).

**T1330-CB620**  
Catch Basin  
Channels 1, 3  
and 5 to connect  
to Catch Basin.



**T1330-CB620-TP**  
Catch Basin  
Transition Plate



**T1360-HDW** - Universal neoprene gasket for between channels, end caps and end outlets with hardware included with every channel, end cap / end outlet ordered

CHANNEL#	LENGTH	Shallow Invert	Deep Invert	List Price / Ea. Channel	List Price / Foot
T1331	78.74" (2m)	4"	4.78"	\$2,376.00	\$362.20
T1331N	78.74" (2m)	4.78"	4.78"	\$2,376.00	\$362.20
T1331N-B03	78.74" (2m) (w/3" BO)	4.78"	4.78"	\$2,376.00	\$362.20
T1331N-B04	78.74" (2m) (w/4" BO)	4.78"	4.78"	\$2,376.00	\$362.20
T1331N-1M	39.37" (1m)	4.78"	4.78"	\$1,188.00	\$362.20
T1332	78.74" (2m)	4.78"	5.56"	\$2,376.00	\$362.20
T1333	78.74" (2m)	5.56"	6.34"	\$2,376.00	\$362.20
T1333N	78.74" (2m)	6.34"	6.34"	\$2,376.00	\$362.20
T1333N-B03	78.74" (2m) (w/3" BO)	6.34"	6.34"	\$2,376.00	\$362.20
T1333N-B04	78.74" (2m) (w/4" BO)	6.34"	6.34"	\$2,376.00	\$362.20
T1333N-1M	39.37" (1m)	6.34"	6.34"	\$1,188.00	\$362.20
T1334	78.74" (2m)	6.34"	7.12"	\$2,376.00	\$362.20
T1335	78.74" (2m)	7.12"	7.9"	\$2,376.00	\$362.20
T1335N	78.74" (2m)	7.9"	7.9"	\$2,376.00	\$362.20
T1335N-B03	78.74" (2m) (w/3" BO)	7.9"	7.9"	\$2,376.00	\$362.20
T1335N-B04	78.74" (2m) (w/4" BO)	7.9"	7.9"	\$2,376.00	\$362.20
T1335N-1M	39.37" (1m)	7.9"	7.9"	\$1,188.00	\$362.20






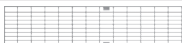
**NOTE:** Flow rate information per channel section is available on the [www.mifab.com](http://www.mifab.com) website

**NOTE:** Custom widths, depths, slopes and profiles available upon request. Contact MIFAB®.

**Note:** The neoprene gasket used to connect long runs of trench drain bodies is not recommended for use with caustic or harsh chemicals. In these cases, it is recommended that the trench drain sections be welded on site.

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



















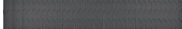
**LOAD CLASS A GRATES - EN 1433 - 3,372 LBS., 15kN, 70 P.S.I.**

Grate Part #	Description		Length (MM)	List Price	List Price (Per Foot)	Weight (Lbs.)	
<b>T100-PGA-13-FP</b>	Class A Galvanized Perforated Grate, 1 meter		39.37" (1000)	\$37.88	\$11.55	3.85	
<b>T100-PGA-13-FP-500</b>	Class A Galvanized Perforated Grate, 1/2 meter		19.69" (500)	\$22.73	\$13.86	2.09	
<b>T100-PGA-3-FP</b>	Class A Stainless Steel Perforated Grate, 1 meter		39.37" (1000)	\$223.86	\$68.25	3.85	
<b>T100-PGA-3-FP-500</b>	Class A Stainless Steel Perforated Grate, 1/2 meter		19.69" (500)	\$134.32	\$81.90	2.09	
<b>T100-PGA-13-FS</b>	Class A Galvanized Slotted Grate, 1 meter		39.37" (1000)	\$37.88	\$11.55	3.08	
<b>T100-PGA-13-FS-500</b>	Class A Galvanized Slotted Grate, 1/2 meter		19.69" (500)	\$22.73	\$13.86	2.86	
<b>T100-PGA-3-FS</b>	Class A Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	\$223.86	\$68.25	3.12	
<b>T100-PGA-3-FS-500</b>	Class A Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	\$134.32	\$81.90	2.42	
<b>T100-PGA-3-SM</b>	Class A Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	\$327.45	\$99.83	5.72	
<b>T100-PGA-3-SM-500</b>	Class A Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	\$187.97	\$114.62	3.08	









**LOAD CLASS B GRATES - EN 1433 - 28,100 LBS., 125kN, 580 P.S.I.**

<b>T100-PGB-13-LS</b>	Class B Galvanized Longitudinal Grate, 1 meter		39.37" (1000)	\$161.79	\$49.33	8.80	
<b>T100-PGB-13-LS-500</b>	Class B Galvanized Longitudinal Grate, 1/2 meter		19.69" (500)	\$89.87	\$54.80	4.37	
<b>T100-PGB-3-LS</b>	Class B Stainless Steel Longitudinal Grate, 1 meter		39.37" (1000)	\$1,118.51	\$341.01	8.80	
<b>T100-PGB-3-LS-500</b>	Class B Stainless Steel Longitudinal Grate, 1/2 meter		19.69" (500)	\$792.15	\$483.02	4.37	

**LOAD CLASS C GRATES - EN 1433 - 56,200 LBS., 250kN, 1,160 P.S.I.**

<b>T100-PGC-13-FP</b>	Class C Galvanized Perforated Grate, 1 meter		39.37" (1000)	\$261.74	\$79.80	9.04	
<b>T100-PGC-13-FP-500</b>	Class C Galvanized Perforated Grate, 1/2 meter		19.69" (500)	\$157.05	\$95.76	4.51	
<b>T100-PGC-3-FP</b>	Class C Stainless Steel Perforated Grate, 1 meter		39.37" (1000)	\$526.93	\$160.65	9.04	
<b>T100-PGC-3-FP-500</b>	Class C Stainless Steel Perforated Grate, 1/2 meter		19.69" (500)	\$316.16	\$192.78	4.51	
<b>T100-PGC-13-FS</b>	Class C Galvanized Slotted Grate, 1 meter		39.37" (1000)	\$261.74	\$79.80	9.68	
<b>T100-PGC-13-FS-500</b>	Class C Galvanized Slotted Grate, 1/2 meter		19.69" (500)	\$157.05	\$95.76	4.59	
<b>T100-PGC-3-FS</b>	Class C Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	\$526.93	\$160.65	9.32	
<b>T100-PGC-3-FS-500</b>	Class C Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	\$316.16	\$192.78	4.62	
<b>T100-PGC-13-GM</b>	Class C Galvanized Mesh Grate, 1 meter		39.37" (1000)	\$272.08	\$82.95	11.50	
<b>T100-PGC-13-GM-500</b>	Class C Galvanized Mesh Grate, 1/2 meter		19.69" (500)	\$163.24	\$99.54	5.80	
<b>T100-PGC-3-SM</b>	Class C Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	\$852.53	\$259.92	11.50	
<b>T100-PGC-3-SM-500</b>	Class C Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	\$612.98	\$373.77	5.80	
<b>T100-PGC-13-SD</b>	Class C Galvanized Paverslot Grate, 1 meter		39.37" (1000)	\$654.36	\$199.50	10.25	
<b>T100-PGC-13-SD-500</b>	Class C Galvanized Paverslot Grate, 1/2 meter		19.69" (500)	\$392.62	\$239.40	5.23	
<b>T100-PGC-13-SD-MU-500</b>	Class C Galvanized Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	\$433.27	\$264.19	7.43	
<b>T100-PGC-3-SD</b>	Class C Stainless Steel Paverslot Grate, 1 meter		39.37" (1000)	\$1,322.50	\$403.20	10.07	
<b>T100-PGC-3-SD-500</b>	Class C Stainless Steel Paverslot Grate, 1/2 meter		19.69" (500)	\$793.50	\$483.84	5.06	
<b>T100-PGC-3-SD-MU-500</b>	Class C Stainless Steel Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	\$816.40	\$497.80	7.43	
<b>T100-PGC-HPP</b>	Class C Plastic Slotted Grate, 1/2 meter		19.69" (500)	\$206.64	\$126.00	2.35	
<b>T100-PGC-4</b>	Class C Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	\$46.49	\$28.35	7.26	
<b>T100-PGC-4-HP</b>	Class C Ductile Iron, Heelproof Slotted Grate, 1/2 meter		19.69" (500)	\$89.30	\$54.45	7.26	
<b>T100-PGC-4-WVY</b>	Class C Ductile Iron, WAVE Grate, 1/2 meter		19.69" (500)	\$89.54	\$54.60	10.12	
<b>T100-PGC-4-BG</b>	Class C Ductile Iron, Bavaria Grate, 1/2 meter		19.69" (500)	\$89.54	\$54.60	6.60	
<b>T100-SCC-4</b>	Class C Ductile Iron Solid Cover, 1/2 meter		19.69" (500)	\$89.54	\$54.60	13.00	

**LOAD CLASS E GRATES - EN 1433 - 134,800 LBS., 600kN, 2,785 P.S.I.**

<b>T100-PGE-13-FS</b>	Class E Galvanized Slotted Grate, 1 meter		39.37" (1000)	\$220.58	\$67.25	9.68	
<b>T100-PGE-13-FS-500</b>	Class E Galvanized Slotted Grate, 1/2 meter		19.69" (500)	\$141.67	\$86.38	4.59	
<b>T100-PGE-3-FS</b>	Class E Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	\$706.13	\$215.28	9.32	
<b>T100-PGE-3-FS-500</b>	Class E Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	\$423.69	\$258.35	4.62	
<b>T100-PGE-4</b>	Class E Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	\$75.77	\$46.20	8.36	
<b>T100-PGE-4-13</b>	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	\$96.43	\$58.80	8.36	
<b>T100-PGE-4-HP</b>	Class E Ductile Iron, Heelproof Slotted Grate, 1/2 meter		19.69" (500)	\$134.32	\$81.90	8.36	
<b>T100-PGE-4-ADA</b>	Class E Ductile Iron, Longitudinal Grate, 1/2 meter		19.69" (500)	\$134.32	\$81.90	10.70	
<b>T100-PGE-4-ADA-13</b>	Class E Galvanized Ductile Iron, Longitudinal Grate, 1/2 meter		19.69" (500)	\$201.47	\$122.85	10.70	



See page 12 for explanation of ADA compliant grates



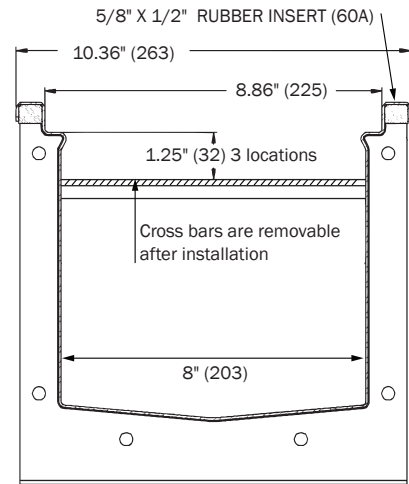
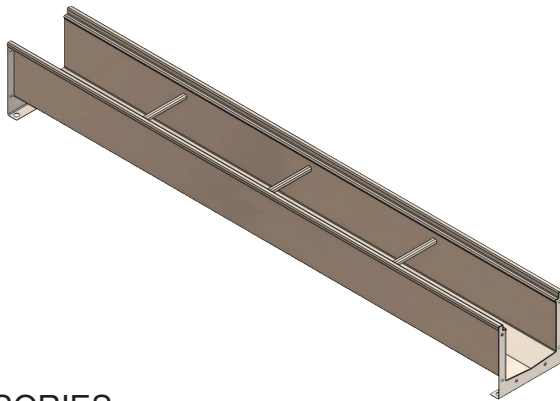
See page 12 for explanation of Heelproof compliant grates

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

 Visit [www.mifab.com](http://www.mifab.com) for the most recent product information. Design and dimensions are subject to modification. Prices do not include applicable taxes.

 Toll Free: 1-800-465-2736, Fax: 1-773-341-3049  
 sales@mifab.com Canada Toll Free: 1-800-387-3880

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 All sales subject to MIFAB's Terms and Warranties, please refer to page no. 40.



## ACCESSORIES

		LIST PRICE (ADD)
-6	Vandal Proof grates (center lockdown)	\$13.75
-7MG	MI-GARD Trap Seal Protection device (4" or 6")	\$92.65
-20	Bottom outlet strainer	\$399.00
-45	45° Degree fabricated body (T1360-45)	\$1,654.00
-90	90° Degree fabricated body (T1360-90)	\$2,205.00
-TEE	Tee fabricated body	\$2,756.25
-C	Membrane Clamp (includes anchor flange)	\$265.75 / foot
-CB	Catch Basin (Part # P6080-CB820) (1/2 meter long, w/sediment bucket, transition plates and hardware kit)	\$3,308.00
-CF	Cross fabricated body	\$2,756.25
-EC	Closed End Cap (T1360-PEC)	\$248.00
-EO	4", 6" or 8" No Hub End Outlet (T1360-PE04, T1360-PE06, T1330-PE08)	\$248.00
-FL	Anchor (waterproofing) flange	\$176.40 / foot
MI-FLEX-400	4" Flexible rubber coupling to connect 4" No Hub vertical and horizontal channel outlets to drainage pipe	\$18.00
MI-FLEX-600	6" Flexible rubber coupling to connect 6" No Hub vertical and horizontal channel outlets to drainage pipe	\$25.00
MI-FLEX-800	8" Flexible rubber coupling to connect 8" No Hub vertical and horizontal channel outlets to drainage pipe	\$33.00

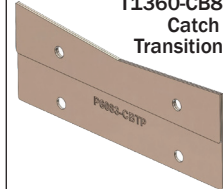
### SPECIFICATION:

MIFAB® Series T1360, 8" internal width, 16 gauge fabricated, powder epoxy coated steel presloped trench drain (1%) with optional grates (see page 29). Channels are available in one and two meter lengths, have flanged ends to connect to each other with a neoprene gasket. Bottom and end outlets are available in 4", 6" or 8" no hub outlet connections. Also available with optional anchor flange (Suffix -FL).

**T1360-CB820**  
Catch Basin  
Channels 1, 3  
and 5 to connect  
to Catch Basin.



**T1360-CB820-TP**  
Catch Basin  
Transition Plate



**T1360-HDW** - Universal neoprene gasket for between channels, end caps and end outlets with hardware included with every channel, end cap / end outlet ordered

CHANNEL#	LENGTH	Shallow Invert	Deep Invert	List Price / Ea. Channel	List Price / Foot
T1361	78.74" (2m)	6"	6.78"	\$2,856.25	\$435.40
T1361N	78.74" (2m)	6.78"	6.78"	\$2,856.25	\$435.40
T1361N-B04	78.74" (2m) (w/4" BO)	6.78"	6.78"	\$2,856.25	\$435.40
T1361N-B06	78.74" (2m) (w/6" BO)	6.78"	6.78"	\$2,856.25	\$435.40
T1361N-B08	78.74" (2m) (w/8" BO)	6.78"	6.78"	\$2,856.25	\$435.40
T1361-1M	39.37" (1m)	6.78"	6.78"	\$1,428.40	\$435.40
T1362	78.74" (2m)	6.78"	7.56"	\$2,856.25	\$435.40
T1363	78.74" (2m)	7.56"	8.34"	\$2,856.25	\$435.40
T1363N	78.74" (2m)	8.34"	8.34"	\$2,856.25	\$435.40
T1363N-B04	78.74" (2m) (w/4" BO)	8.34"	8.34"	\$2,856.25	\$435.40
T1363N-B06	78.74" (2m) (w/6" BO)	8.34"	8.34"	\$2,856.25	\$435.40
T1363N-B08	78.74" (2m) (w/8" BO)	8.34"	8.34"	\$2,856.25	\$435.40
T1363N-1M	39.37" (1m)	8.34"	8.34"	\$1,428.40	\$435.40
T1364	78.74" (2m)	8.34"	9.12"	\$2,856.25	\$435.40
T1365	78.74" (2m)	9.12"	9.9"	\$2,856.25	\$435.40
T1365N	78.74" (2m)	9.9"	9.9"	\$2,856.25	\$435.40
T1365N-B04	78.74" (2m) (w/4" BO)	9.9"	9.9"	\$2,856.25	\$435.40
T1365N-B06	78.74" (2m) (w/6" BO)	9.9"	9.9"	\$2,856.25	\$435.40
T1365N-B08	78.74" (2m) (w/8" BO)	9.9"	9.9"	\$2,856.25	\$435.40
T1365N-1M	39.37" (1m)	9.9"	9.9"	\$1,428.40	\$435.40

**NOTE:** Flow rate information per channel section is available on the [www.mifab.com](http://www.mifab.com) website

**NOTE:** Custom widths, depths, slopes and profiles available upon request. Contact MIFAB®.

Note: The neoprene gasket used to connect long runs of trench drain bodies is not recommended for use with caustic or harsh chemicals. In these cases, it is recommended that the trench drain sections be welded on site.

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



**LOAD CLASS A GRATES - EN 1433 - 3,372 LBS., 15kN, 70 P.S.I.**

Grate Part #	Description	Length (MM)	List Price	List Price (Per Foot)	Weight (Lbs.)
<b>T200-PGA-13-GM</b>	Class A Galvanized Mesh Grate, 1 meter	39.37" (1000)	\$324.45	\$98.92	13.13
<b>T200-PGA-13-GM-500</b>	Class A Galvanized Mesh Grate, 1/2 meter	19.69" (500)	\$224.35	\$136.80	6.82
<b>T200-PGA-3-SM</b>	Class A Stainless Steel Mesh Grate, 1 meter	39.37" (1000)	\$1,856.30	\$565.95	13.13
<b>T200-PGA-3-SM-500</b>	Class A Stainless Steel Mesh Grate, 1/2 meter	19.69" (500)	\$1,104.15	\$673.26	6.82


**LOAD CLASS B GRATES - EN 1433 - 28,100 LBS., 125kN, 580 P.S.I.**

<b>T200-PGB-13-LS</b>	Class B Galvanized Longitudinal Grate, 1 meter	39.37" (1000)	\$365.72	\$111.50	16.02
<b>T200-PGB-13-LS-500</b>	Class B Galvanized Longitudinal Grate, 1/2 meter	19.69" (500)	\$237.86	\$145.04	8.38
<b>T200-PGB-3-LS</b>	Class B Stainless Longitudinal Grate, 1 meter	39.37" (1000)	\$1,856.30	\$565.95	16.32
<b>T200-PGB-3-LS-500</b>	Class B Stainless Longitudinal Grate, 1/2 meter	19.69" (500)	\$1,104.15	\$673.26	8.31


**LOAD CLASS C GRATES - EN 1433 - 56,200 LBS., 250kN, 1,160 P.S.I.**

<b>T200-PGC-13-FP</b>	Class C Galvanized Perforated Grate, 1 meter	39.37" (1000)	\$995.30	\$303.45	24.33
<b>T200-PGC-13-FP-500</b>	Class C Galvanized Perforated Grate, 1/2 meter	19.69" (500)	\$700.10	\$426.89	11.66
<b>T200-PGC-3-FP</b>	Class C Stainless Steel Perforated Grate, 1 meter	39.37" (1000)	\$1,728.85	\$527.09	24.33
<b>T200-PGC-3-FP-500</b>	Class C Stainless Steel Perforated Grate, 1/2 meter	19.69" (500)	\$1,210.55	\$738.14	11.66



<b>T200-PGC-13-GM</b>	Class C Galvanized Mesh Grate, 1 meter	39.37" (1000)	\$692.05	\$211.00	24.33
<b>T200-PGC-13-GM-500</b>	Class C Galvanized Mesh Grate, 1/2 meter	19.69" (500)	\$422.00	\$257.32	11.66
<b>T200-PGC-3-SM</b>	Class C Stainless Steel Mesh Grate, 1 meter	39.37" (1000)	\$2,282.20	\$695.79	24.33
<b>T200-PGC-3-SM-500</b>	Class C Stainless Steel Mesh Grate, 1/2 meter	19.69" (500)	\$1,470.75	\$896.80	11.66



<b>T200-PGC-3-SBG</b>	Class C Stainless Steel Bar Grate, 1 meter	39.37" (1000)	\$2,069.85	\$631.05	26.25
<b>T200-PGC-3-SBG-500</b>	Class C Stainless Steel Bar Grate, 1/2 meter	19.69" (500)	\$1,448.65	\$883.32	14.50

**Avail.  
June/22**


<b>T200-PGC-13-SD</b>	Class C Galvanized Paverslot Grate, 1 meter	39.37" (1000)	\$504.35	\$153.77	47.08
<b>T200-PGC-13-SD-500</b>	Class C Galvanized Paverslot Grate, 1/2 meter	19.69" (500)	\$394.70	\$240.67	23.54
<b>T200-PGC-13-MU-500</b>	Class C Galvanized Maintenance Unit Paverslot, 1/2 meter	19.69" (500)	\$806.60	\$491.83	43.78



<b>T200-PGC-3-SD</b>	Class C Stainless Steel Paverslot Grate, 1 meter	39.37" (1000)	\$1,035.75	\$315.78	47.08
<b>T200-PGC-3-SD-500</b>	Class C Stainless Steel Paverslot Grate, 1/2 meter	19.69" (500)	\$742.80	\$452.93	23.54
<b>T200-PGC-3-MU-500</b>	Class C Stainless Steel Maintenance Unit Paverslot, 1/2 meter	19.69" (500)	\$1,252.45	\$763.69	43.78



<b>T200-PGC-4</b>	Class C Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	\$108.50	\$66.16	13.79
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<b>T200-PGC-4-HP</b>	Class C Ductile Iron, Heelproof Slotted Grate, 1/2 meter	19.69" (500)	\$215.25	\$131.25	13.79
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<b>T200-PGC-4-WVY</b>	Class C Ductile Iron, WAVE Grate, 1/2 meter	19.69" (500)	\$215.25	\$131.25	13.86
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<b>T200-PGC-4-BG</b>	Class C Ductile Iron, Bavaria Grate, 1/2 meter	19.69" (500)	\$215.25	\$131.25	13.64
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**LOAD CLASS E GRATES - EN 1433 - 134,800 LBS., 600kN, 2,785 P.S.I.**

<b>T200-PGE-4</b>	Class E Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	\$186.00	\$113.41	19.25
<b>T200-PGE-4-13</b>	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	\$268.65	\$163.81	19.25



<b>T200-PGE-4-HP</b>	Class E Ductile Iron, Heelproof Slotted Grate, 1/2 meter	19.69" (500)	\$268.65	\$163.81	13.79
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<b>T200-PGE-4-ADA</b>	Class E Ductile Iron, Longitudinal Grate, 1/2 meter	19.69" (500)	\$268.65	\$163.81	21.25
<b>T200-PGE-4-ADA-13</b>	Class E Galvanized Ductile Iron, Longitudinal Grate, 1/2 meter	19.69" (500)	\$449.45	\$274.05	21.25



See page 16 for explanation of ADA compliant grates



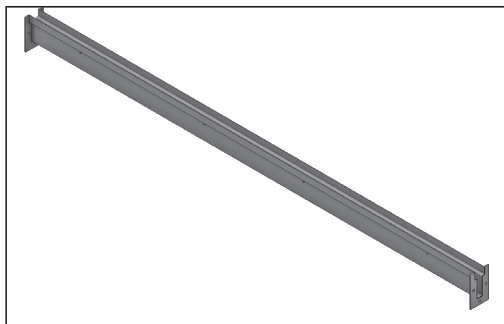
See page 16 for explanation of Heelproof compliant grates

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**SPECIFICATION:**

MIFAB® Series T5000-158, 1 5/8" wide, 3 7/8" deep, 40" long, non sloped channels. Body is manufactured from 14 gauge aluminum. Channels have flanged ends to connect to each other with a neoprene rubber gasket. End and bottom outlets are available in 2" no hub outlet connections and are fabricated as part of the trench drain system. Available with anchor flanges and membrane clamps as required.

MODEL NUMBER	Description	List Price, Per Foot
<b>T5000-158-PB</b>	1 5/8" wide, 3 7/8" deep, 14 gauge aluminum channel only	<b>\$440.00</b>

**Grates (all 40" long. One grate required per body section)**

Order Guide Suffix	Description	List Price, Per Foot, section, add to Channel price below
<b>PGA-AL</b>	Aluminum decorative slotted grate - Class A, 40" long	<b>\$110.25</b>
<b>PGA-AW</b>	Aluminum wire grate - Class A, 40" long	<b>\$786.00</b>
<b>PGA-SS</b>	Stainless Steel, Decorative grate - Class A, 40" long	<b>\$325.25</b>
<b>PGB-WW</b>	Stainless Steel, Wedgewire grate - Class A, 40" long	<b>\$325.25</b>

**End Caps / Outlets / Accessories**

Order Guide Suffix	Description	List Price, Each, Add
<b>-PEC</b>	Closed end cap	<b>\$225.75</b>
<b>-PEO2</b>	2" no hub end outlet	<b>\$197.50</b>
<b>-PBO2</b>	2" no hub bottom outlet	<b>\$197.50</b>
<b>MI-FLEX-200</b>	2" Flexible rubber coupling to connect 2" No Hub vertical and horizontal channel outlets to drainage pipe	<b>\$13.75</b>

MIFAB®'s Engineering team will produce a sign off drawing illustrating the T5000-158 trench drain system requested for customer sign off and then MIFAB® Customer Service quotation.

**Accessories and 45° and 90° Degree Fabrications**

Order Guide Suffix	Description	List Price, Each, Add
<b>Standard</b>	5/16-18 x 2" Zinc Coated Bolts (2 per package) - for grate lockdown	<b>N/A</b>
<b>-SSB</b>	5/16-18 x 2" Stainless Steel Bolts (2 per package) - for grate lockdown	<b>\$44.00</b>
<b>-PB-45-AL</b>	45° Degree Channel Section with Aluminum decorative slotted grate	<b>\$548.00</b>
<b>-PB-90-AL</b>	90° Degree Channel Section with Aluminum decorative slotted grate	<b>\$548.00</b>
<b>-PB-45-AW</b>	45° Degree Channel Section with Aluminum wire grate	<b>\$82.75</b>
<b>-PB-90-AW</b>	90° Degree Channel Section with Aluminum wire grate	<b>\$82.75</b>
<b>-PB-45-SS</b>	45° Degree Channel Section with Stainless Steel Decorative grate	<b>\$606.50</b>
<b>-PB-90-SS</b>	90° Degree Channel Section with Stainless Steel Decorative grate	<b>\$606.50</b>
<b>-PB-45-WW</b>	45° Degree Channel Section with Stainless Steel Wedgewire grate	<b>\$578.75</b>
<b>-PB-90-WW</b>	90° Degree Channel Section with Stainless Steel Wedgewire grate	<b>\$578.75</b>
<b>-TEE</b>	Tee Fabrication	<b>\$548.00</b>
<b>-CF</b>	Cross Fabrication	<b>\$1,105.65</b>
<b>-C</b>	Membrane clamps (2 - one for each side of the body) with hardware	<b>\$651.00 for a set of two clamps</b>

**T5000-158-HDW - Universal gasket for between channels, end caps and end outlets with hardware included at no extra charge with every channel, end cap / end outlet ordered.**

Note: Custom designs are available. Contact MIFAB®

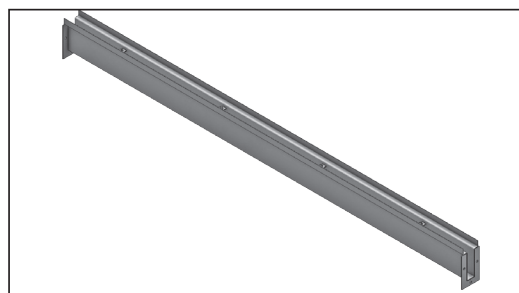
Go to [www.mifab.com](http://www.mifab.com) for the T5000-158 Cross Section detail and specification sheet.

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**SPECIFICATION:**

MIFAB® Series T5000-300, 3" wide, 5 7/8" deep, 40" long, non sloped channels. Channel is manufactured from 14 gauge aluminum. Channels have flanged ends to connect to each other with a neoprene rubber gasket. End and bottom outlets are available in 2" no hub outlet connections and are fabricated as part of the trench drain system. Available with anchor flanges and membrane clamps as required.

MODEL NUMBER	Description	List Price, Per Foot
<b>T5000-300-PB</b>	3" wide, 5 7/8" deep, 14 gauge aluminum channel only	<b>\$440.00</b>



Grates (all 40" long. One grate required per body section)		
Order Guide Suffix	Description	List Price, Per Foot, Add
<b>PGA-AL</b>	Aluminum decorative slotted grate - Class A, 40" long	<b>\$441.00</b>
<b>PGA-AW</b>	Aluminum wire grate - Class A, 40" long	<b>\$937.25</b>
<b>PGA-SS</b>	Stainless Steel, Decorative grate - Class A, 40" long	<b>\$325.25</b>
<b>PGB-WW</b>	Stainless Steel, Wedgewire grate - Class A, 40" long	<b>\$385.75</b>
End Caps / Outlets / Accessories		
Order Guide Suffix	Description	List Price, Each, Add
<b>-PEC</b>	Closed end cap	<b>\$260.50</b>
<b>-PEO2</b>	2" no hub end outlet	<b>\$287.75</b>
<b>-PBO2</b>	2" no hub bottom outlet	<b>\$287.75</b>
<b>MI-FLEX-200</b>	2" Flexible rubber coupling to connect 2" No Hub vertical and horizontal channel outlets to drainage pipe	<b>\$13.75</b>

MIFAB®'s Engineering team will produce a sign off drawing illustrating the T5000-158 trench drain system requested for customer sign off and then MIFAB® Customer Service quotation.

Accessories and 45° and 90° Degree Fabrications		
Order Guide Suffix	Description	List Price, Each, Add
<b>Standard</b>	5/16-18 x 2" Zinc Coated Bolts (2 per package) - for grate lockdown	<b>N/C</b>
<b>-SSB</b>	5/16-18 x 2" Stainless Steel Bolts (2 per package) - for grate lockdown	<b>\$44.00</b>
<b>-PB-45-AL</b>	45° Degree Channel Section with Aluminum decorative slotted grate	<b>\$548.00</b>
<b>-PB-90-AL</b>	90° Degree Channel Section with Aluminum decorative slotted grate	<b>\$548.00</b>
<b>-PB-45-AW</b>	45° Degree Channel Section with Aluminum wire grate	<b>\$744.20</b>
<b>-PB-90-AW</b>	90° Degree Channel Section with Aluminum wire grate	<b>\$744.20</b>
<b>-PB-45-SS</b>	45° Degree Channel Section with Stainless Steel Decorative grate	<b>\$606.50</b>
<b>-PB-90-SS</b>	90° Degree Channel Section with Stainless Steel Decorative grate	<b>\$606.50</b>
<b>-PB-45-WW</b>	45° Degree Channel Section with Stainless Steel Wedgewire grate	<b>\$578.75</b>
<b>-PB-90-WW</b>	90° Degree Channel Section with Stainless Steel Wedgewire grate	<b>\$578.75</b>
<b>-TEE</b>	Tee Fabrication	<b>\$548.00</b>
<b>-CF</b>	Cross Fabrication	<b>\$1,105.65</b>
<b>-C</b>	Membrane clamps (2 - one for each side of the body)	<b>\$651.00 for a set of two clamps</b>

**T5000-300-HDW - Universal neoprene gasket for between channels, end caps and end outlets with hardware included at no extra charge with every channel, end cap / end outlet ordered.**

Note: Custom designs are available. Contact MIFAB®

Go to [www.mifab.com](http://www.mifab.com) for the T5000-300 Cross Section detail & specification sheet.

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**SPECIFICATION:**

MIFAB® Series T4000-HDSC, (specify model number for required width and depth), 80" long, non sloped heavy duty utility chase trench system. Body is manufactured from 14 gauge steel and finished with an acid resistant powder epoxy coating. Each body has a 3" wide anchor flange on each side recessed 2 3/4" down from the top with securing holes 15" apart for #4 rebar tie down and leveling. Bodies have flanged ends to connect to each other with a neoprene rubber gasket. Covers are ductile iron for up to and including 12" internal widths and fabricated steel diamond plate for the larger widths.

Go to [www.mifab.com](http://www.mifab.com) for the T4000-HDSC Cross Section detail and specification sheet.

MODEL #	DESCRIPTION	LOAD CLASS	LIST PRICE, PER FOOT
<b>T4000-HDSC-4-4</b>	4" Internal Width Channel, Ductile Iron Cover	<b>C</b>	<b>\$315.00</b>
<b>T4000-HDSC-12-4</b>	12" Internal Width Channel, Ductile Iron Cover	<b>E</b>	<b>\$525.00</b>
<b>T4000-HDSC-18-13</b>	18" Internal Width Channel, Galvanized Steel Diamond Plate Cover	<b>C</b>	<b>\$630.00</b>
<b>T4000-HDSC-21-13</b>	21" Internal Width Channel, Galvanized Steel Diamond Plate Cover	<b>C</b>	<b>\$738.65</b>

Accessories and 45° and 90° Degree Fabrications - for all Channel Sizes.		
Order Guide Suffix	Description	List Price, Each, Add
<b>-PB-90</b>	90° Degree Channel with cover	<b>\$739.00</b>
<b>-CUT</b>	Cutting / per cut - Net Price only	<b>\$382.00</b>
<b>-CF</b>	Cross 4 way channel connection	<b>\$1,470.00</b>
<b>-PEC</b>	End Caps	<b>\$272.50</b>

**Note:** Specify the total length of the T4000-HDSC utility trench drain system required and design of the trench drain system (straight run only or straight runs with corners and turns).

MIFAB®'s Engineering team will produce a sign off drawing illustrating the T4000-HDSC utility trench drain system requested for customer sign off and then MIFAB® Customer Service quotation.

Note: Custom designs are available. Contact MIFAB®

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## ACCESSORIES

PLASTIC SEDIMENT BUCKETS ARE INCLUDED WITH EVERY CATCH BASIN



T1400-CB620-SB - 4"  
internal width



T2000-CB820-SB - 8"  
internal width



T3000-CB1220-SB - 12"  
internal width



Grate lifting key T100-KEY  
**List Price - \$90.00**

ANTI-VANDALISM LOCKING DEVICE FOR ALL GRATES



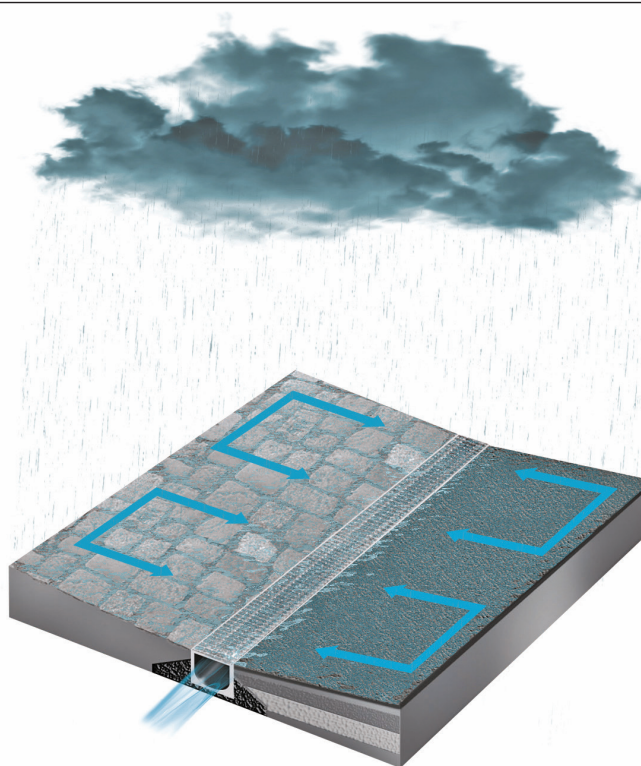
T100-VP (4" internal width)	<b>\$22.25</b>
T200-VP (8" internal width)	<b>\$33.50</b>

(Two pieces required per meter)

## TYPICAL TRENCH DRAIN SIZING CONSIDERATIONS

In order to size a trench drain system (length and width), the following information is required:

1. Length of trench drain run (feet or meters)
2. Length and width of the surface area draining into the trench drain (feet or meters)
3. Surface area type - concrete, pavement, asphalt, etc.
4. Rainfall intensity (in/hr or mm/hr) of the area where the trench drain will be installed
5. Is any additional water being introduced onto the surface pavement or into the trench (i.e. downspouts from adjacent buildings ?)
6. Slope of the ground along the trench drain (%)
7. Perpendicular approach slopes to the trench drain (%)
8. Location of and number of outlets along the trench drain run
9. Any trench drain depth restrictions



Please contact MIFAB's Engineering Department at [sales@mifab.com](mailto:sales@mifab.com) for help to design your next trench drain project.

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## Neutral Trench Drain Flow Rates Vs. Sloped Trench Drain Flow Rates

**Note: See page 35 for the technical explanation.**

It has been the custom in the United States and Canada to specify trench drain systems that have sloped bodies. The reasoning is that sloped trench drains will provide a greater flow of water due to the sloped sections. Like many things in today's world, this custom has been accepted as the common practice. In contrast, for decades, engineers in Europe specify neutral trench drain systems as their standard design. This is because neutral trench drain systems perform comparably to sloped trench drain systems.

**The advantages for the engineer, building owner, contractor, and wholesaler to use neutral trench drain systems are:**

1. Faster delivery to the jobsite as fewer individual depths of trench drain bodies are needed.
2. Easier to install the channels when they are all neutrals.
3. Faster installation preparation because one depth trench drain body does not require complicated site organization.
4. Faster installation due to same height of the trench drain body. Often, sloped trench drain bodies are mixed on a pallet - requiring time to sort and identify them. This is not the case with neutral depth bodies.
5. Increased flexibility, because the contractor can easily increase the number of neutral trench drain bodies in order to extend the length of the run or if replacement channels are required. This is more difficult with sloped trench drain bodies.

**The flow rate of a trench drain is affected by three main factors:** invert depth of the bodies, internal width of the bodies, and length of the run. Trench drain bodies with a greater depth (assuming the width is the same) have more volume capacity and therefore a greater flow rate because the head pressure is greater when the water height is higher. Trench drain bodies that are wider than others have more volume capacity (assuming that the height of the water is the same) and as a result, a higher flow rate.

A typical sloped trench drain system (see Figures 1-A and 1-B in the adjacent page) starts off with a shallow sloped body section and ends with a deeper sloped body section. This means that the body depth is not consistent and the volume capacity of the sloped system is less than the volume capacity of a neutral system that has the same body depth throughout the run. (see Figures 2-A and 2-B in the adjacent page).

Figures 1-A and 1-B illustrate a typical sloped trench drain system with flow rates of 98.27 GPM in the 30 foot run and 142.60 GPM in the 60 foot run. Figures 2-A and 2-B illustrate the MIFAB® - T1420N neutral trench drain system with flow rates of 99.20 GPM in the 30 foot run and 149.80 GPM in the 60 foot run. Note that the ending body height in a typical sloped 30 foot trench drain system (7.68") is the same as all of the body heights in the MIFAB® - system (7.68") and the ending body height in a typical sloped trench drain system (9.65") is the same as all of the body heights in the MIFAB® - T1420N system (9.65").

Therefore, take advantage of the easier installation of the MIFAB® - neutral trench drain systems instead of the industry standard sloped trench drain systems.

**Note, the deeper neutral bodies require extra excavation and concrete surround compared to a sloped channel system.**

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## Flow Rate Comparison Calculation According To Manning & Strickler

### 4" Internal Width Sloped vs. Neutral Flow Rate Comparison

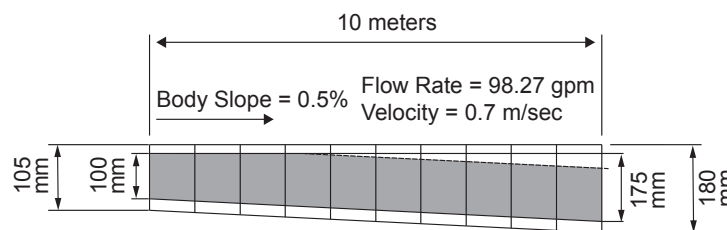


Figure 1-A Typical Sloped Trench Drain from Others

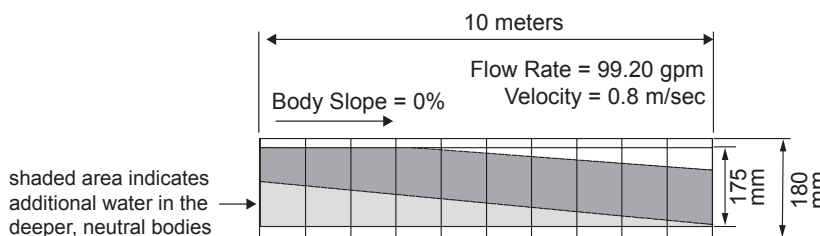


Figure 2-A MIFAB®- T1410N

**Note, the deeper neutral bodies require extra excavation and concrete surround compared to a sloped channel system.**

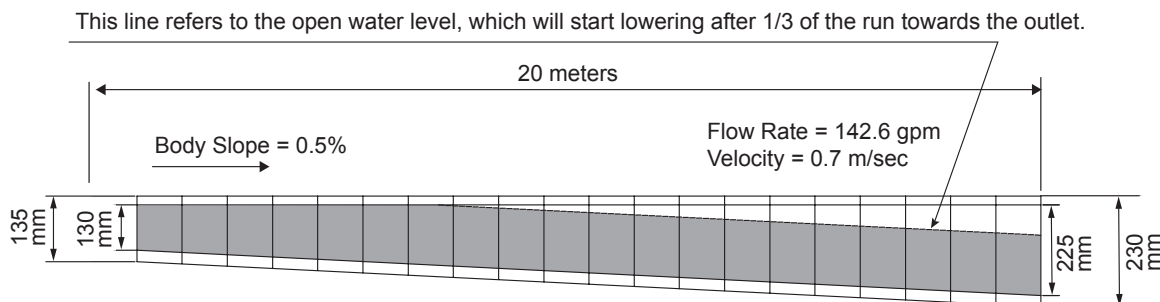


Figure 1-B Typical Sloped Trench Drain from Others

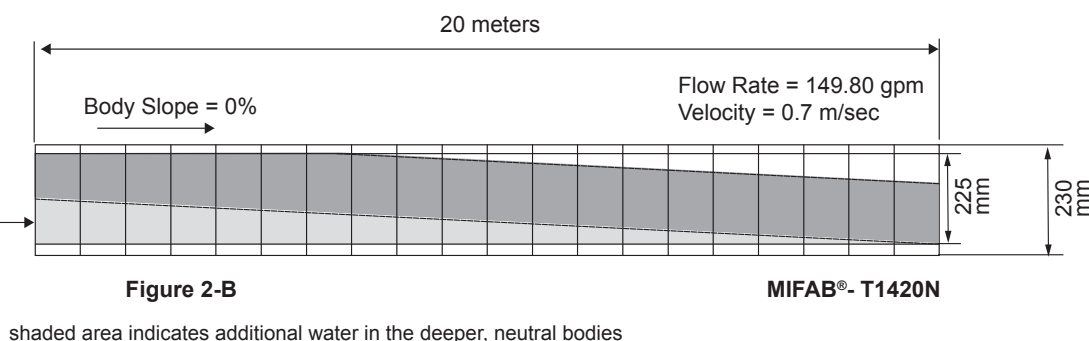


Figure 2-B MIFAB®- T1420N

**Note, the deeper neutral bodies require extra excavation and concrete surround compared to a sloped channel system.**

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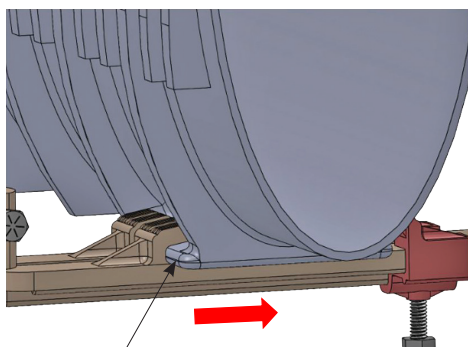
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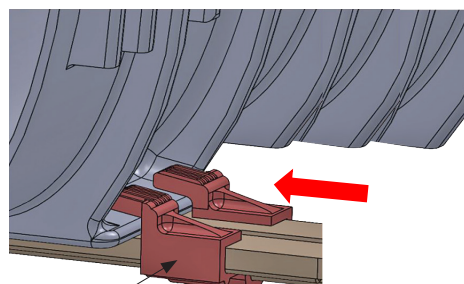
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## GRP Trench Installation Guide

### INSTALLATION GUIDE

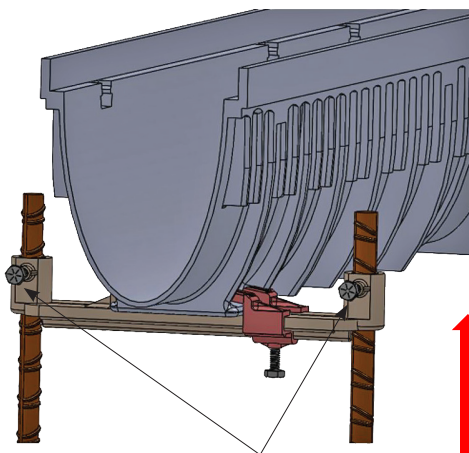


1. Ensure the installation device connects tightly to the channel.



2. Push the adjustable slide against the channel lower profile until tight engagement.

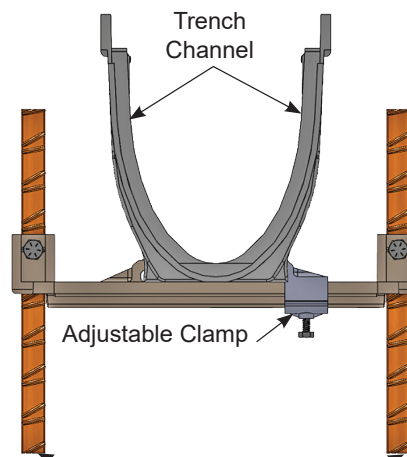
3. Secure the adjustable slide position by tightening the screw.



4. Adjust to desired height, secure the installation device by tightening the two side screws.

Please note it is always recommended that the GRP channels connecting to a catch basin and at the end of a run finish with channel numbers either 0, 10 or 20

**Finished floor height to be 1/8" above the channel edge rail.**



Rebar / Threaded Rod by others

### Polyurethane Sealant for GRP Trench drains

MIFAB recommends the use of a one component polyurethane product as a "sealant" between the channels if required by the engineer. It has expansive and contracting characteristics and is utilized in environments where those characteristics are desirable. The most prominent application for MIFAB trench drains is when 2 channels are put together. There is an "indentation" or a groove between the two channels on the interior surface.

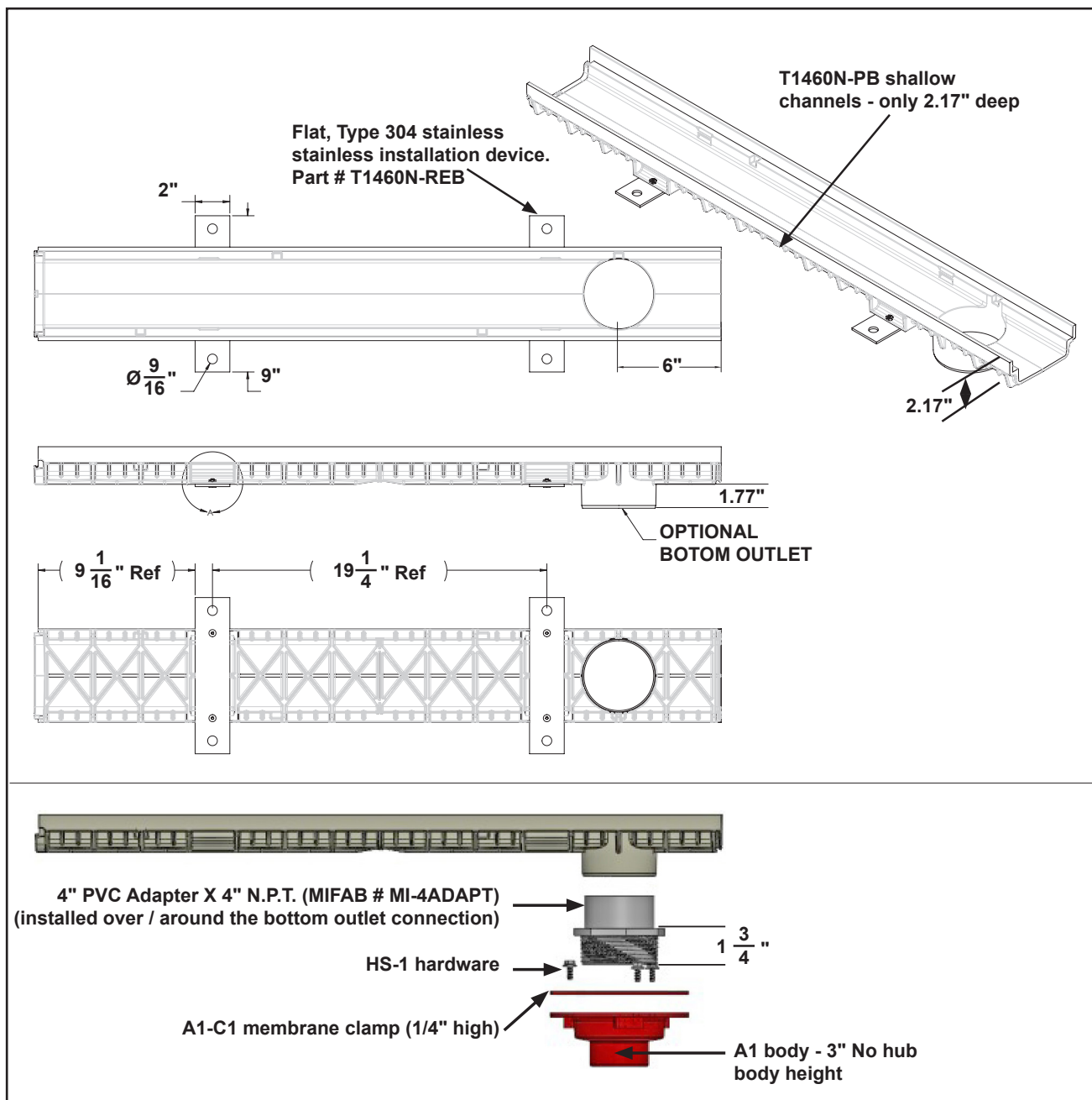
SikaFlex 1A and Sonneborn NP-1 are two acceptable sealant materials although there are other manufacturers of polyurethane sealant products that would also be accepted.

Do not use silicone and / or an adhesive (thin set glue) as a sealant with the MIFAB trench drain channels.

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## Installation Device for shallow T1460N and T2060N channels



MIFAB's T1460N Series of shallow, GRP trench drain channels are ideal for installation onto concrete decks. Their overall depth of 2.17" provides a lot of flexibility during installation. The T1460N-REB flat, Type 304 stainless steel installation devices are engineered to provide only 1/8" of an increase in overall height when installed on the underside of the T1460N channels. They are ideal to secure the T1460N channels into the concrete deck with anchors by others. This is to provide the minimum overall height as possible. MIFAB also offers Type 304 stainless steel installation devices (only 1/8" high) for the T2060N-PB, 8" internal width shallow channels.

### List Price of T1460N-REB - \$10.50

(two brackets included with mounting hardware)

### List Price of T2060N-REB - \$15.75

(two brackets included with mounting hardware)

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## Chemical Resistance Chart

Media	Temperature in Fahrenheit	Glass Fiber Reinforced Polyester (GRP)
Acetone	RT	-
Battery acid (diluted sulphuric acid)	RT	+
Formic acid 10 %	RT	+
Ammonia 5 % aqueous Solution	RT	-
Ammonia 25 % aqueous Solution	RT	-
Ammonium salts, aqueous Solution	RT	+
Apple juice, aqueous Solution	RT	+
Malic acid	86	+
Barium salts, aqueous Solution	RT	+
Petrol, super and normal	RT	+
Benzene	RT	+
Succinic acid, aqueous Solution	RT	+
Beer	RT	+
Blood	RT	+
Boric acid	RT	+
Brake fluid	RT	+
Hydrogen bromide	RT	-
Butanol	RT	+
Butyric acid	RT	+
Butyric acid	104	-
Butyl acetate	104	-
Calcium salts, aqueous Solution	RT	+
Calcium hydroxide (lime milk)	RT	-
Chlorine, gaseous, moist	RT	-
Chlorinated lime, aqueous Solution	RT	-
Chlorinated water	RT	-
Chromic acid 10 %	RT	+
Cyclohexane	RT	+
Diesel oil	RT	+
Jet propellant	RT	+
Iron salts, aqueous Solution	RT	+
Developer	RT	-
Epoxy resins	RT	+
Petroleum	RT	+
Soil, acidic and alkaline	RT	+
Acetic acid 10 %	RT	-
Acetic acid 10 %	140	-
Ethanol	RT	-
Ethylbenzene	RT	+
Fatty acids (higher than C 12)	104	+
Fish oil	RT	+
Fixing bath	RT	+
Formaldehyde, aqueous Solution	RT	+
Fruit juices	RT	+
Glycol	RT	+
Glycol (ethylene glycol)	RT	+
Urea, aqueous Solution	RT	+
Fuel oil	RT	+
Humic acid	RT	+
Isopropyl alcohol (2-propanol)	RT	+
Potassium hydroxide solution 2.5 %	RT	-
Potassium permanganate 6%	140	-
Calcium salts, aqueous Solution	RT	+
Silica hydrochloric acid	68	-
Carbonic acid, aqueous Solution	RT	+
Copper salts, aqueous Solution	RT	+

Linseed oil	RT	+
Magnesium salts, aqueous Solution	RT	+
Maleic acid, aqueous Solution	RT	+
Manganese salts, aqueous Solution	RT	+
Margarine	RT	+
Engine oil	RT	+
Sea water	RT	+
Sea water	140	-
Milk	RT	+
Lactic acid, aqueous Solution	RT	+
Mineral oils	RT	+
Mineral water	RT	+
Sodium hydroxide 40 %	104	-
Barium salts, aqueous Solution	RT	+
Wetting and cleaning agents	RT	+
Octane	RT	+
Octane	140	-
Oxalic acid, aqueous Solution	RT	+
Oxalic acid, aqueous Solution	140	-
Oleic acid	RT	+
Parafin oil	RT	+
Perchloric acid	RT	-
Petroleum ether	RT	+
Kerosene	RT	+
Phosphoric acid 10 %	RT	+
Phosphoric acid 10 %	140	-
Phosphoric acid 50 %	104	-
Ricinus oil	RT	+
Crude oil	RT	+
Salicylic acid, aqueous Solution	RT	+
Nitric acid 10 %	104	-
Hydrochloric acid 20 %	104	-
Greases	RT	+
Sulphuric acid 30 %	RT	-
Silicone oil	RT	+
Tetrachloroethylene	RT	+
Carbon tetrachloride	RT	-
Thioglycolic acid	RT	-
Trichloroethylene	RT	-
Detergent, commercially available 5%	RT	+
Water dist.	RT	+
Water dist.	140	-
Wine	RT	+
Zinc salts, aqueous Solution	RT	+
Tin salts, aqueous Solution	RT	+
Citric acid, aqueous Solution	RT	+
Citric acid, aqueous Solution	140	-
Sugar	RT	+

+ = resistant

- = not resistant.

RT = room temperature (70° F)







GRP = Glass Fiber Reinforced Polyester






**NOTE:** Glass Fiber Reinforced Polyester (GRP) material is resistant to short-term exposure to inorganic acids and subsequent water rinsing.

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## Grate Load Class Definitions

There are two main grate definitions in the trench drain industry to help engineers select the appropriate grate: EN1433 / DIN19580 and ANSI A112.21.1M Standards.

EN1433 / DIN19580		
Grates shall be designed to meet the following loading classifications in a static condition.		
	<b>Load Class A</b>	Light Duty Grate design load up to or exceeding 3,372 lbs per foot. (15 kN). For pedestrian foot traffic only.
	<b>Load Class B</b>	Medium Duty Grate design load of at least 28,100 lbs per foot. (125 kN). For light pneumatic tire traffic only. Sidewalks and residential parking.
	<b>Load Class C</b>	Heavy Duty Grate design load of at least 56,200 lbs per foot. (250 kN). Commercial Applications.
	<b>Load Class D</b>	Grate design load of at least 89,920 lbs per foot. (400 kN). For pneumatic forklift traffic. Extra Heavy Duty. Roads and Highways. H-20 Load Rated.
	<b>Load Class E</b>	Grate design load of at least 134,800 lbs per foot. (600 kN). For Commercial Solid tire traffic patterns, and impacts from steel struts or metal wheels (forklifts). Extreme Heavy Duty.
	<b>Load Class F</b>	Grate design load of at least 202,320 lbs per foot. (900 kN). For airport traffic.

ANSI A112.21.1M		
Grates shall be designed to meet the following loading classifications in a static condition.		
	<b>Light Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) under 2,000 lbs. (900 kg.) For pedestrian foot traffic only.
	<b>Medium Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) between 2,000 lbs. (900 kg.) and 4,999 lbs. (2,250 kg.) For light pneumatic tire traffic only. Sidewalks and residential parking.
	<b>Heavy Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) between 5,000 lbs. (2,250 kg.) and 7,499 lbs. (3,375 kg.) For Commercial Pneumatic tire traffic patterns and tractor trailers.
	<b>Extra Heavy Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) between 7,500 lbs. (3,375 kg.) and 10,000 lbs. (4,500 kg.) For forklift traffic. Roads and Highways. H-20 Load Rated.
	<b>Special Duty</b>	All grates having safe live load (as calculated in paragraph 6.1.6 of the ANSI Standard) over 10,000 lbs. (4,500 kg.) For airport traffic.

## Transportation Classifications

- The American Association of State Highway and Transportation Officials' (AASHTO) "Standard Specification for Highway Bridges" defines H-20 loading as a two-axle truck with a maximum dual wheel load of 16,000 lbs. HS-20 loading is defined as a tractor truck with a tandem axle semi-trailer with a dual wheel load of 16,000 lbs.
- The FAA (Federal Aviation Administration) Advisory Circular AC 150/5320-6D describes aircraft loading as 100,000 lbs. placed over a 9" x 9" area.
- Heelproof is defined as slots or perforations that are less than 5/16" in width or diameter.

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## Cross Reference Guide

MIFAB®	ZURN	PAGE NO.
T1400-F	Z706	(page 24)
T2000-F	Z712	(page 24)
Contact MIFAB	Z717	-
Contact MIFAB	Z723	-
Contact MIFAB	Z726	-
T1400	Z806	(pages 12 - 15)
T1400	ZF806	(pages 12 - 15)
T2000	Z812	(pages 16 - 19)
T2000	ZF812	(pages 16 - 19)
T1400-CB620	Z817 - 6" x 20"	(page 13)
T2000-CB1220	Z817 - 12" x 24"	(page 17)
T2000-CB2424	Z817 - 24" x 24"	-
T1400-CB620	ZF817 - 6" x 20"	(page 13)
T2000-CB1220	ZF817 - 12" x 24"	(page 17)
T2000-CB2424	ZF817 - 24" x 24"	-
T3000	Z874-12	(pages 20 - 23)
Contact MIFAB	Z874-18	-
Contact MIFAB	Z874-21	-
T4000-HDSC	Z874-U-XX-LDRA	(page 32)
T4000-HDSC	Z874-U-XX-LDRS	(page 32)

MIFAB®	ZURN	PAGE NO.
T4000-HDSC-4	Z874-U-XX-HD	(page 32)
T250	Z880	(page 25)
T5000-158	ZA880-156	(page 30)
T5000-300	ZA880-300A	(page 31)
T5000-300	ZA880-300B	(page 31)
T5000-300	ZA880-340	(page 31)
T2000	Z882	(pages 16 - 19)
T1460	Z883	(page 13)
T1460	Z884	(page 13)
T1400	Z886	(pages 12 - 15)
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T2000-CB1220	Z887 - 12" x 24"	(page 17)
T2000-CB2424	Z887 - 24" x 24"	-
MIFAB®	JR Smith	PAGE NO.
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T1400	9930/ 9940	(pages 12 - 15)
T1400	9940	(pages 12 - 15)
T2000	9960	(pages 16 - 19)
T2000	9812	(pages 16 - 19)

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## Terms and Warranties

### WHOLESALE DISCOUNT:

Contact MIFAB® or your local representative for your applicable discount structure.

**PLUMBING WHOLESALE FREIGHT ALLOWANCE:** Ex Works, MIFAB's Chicago, Illinois Factory or Manufacturer Representative's warehouse with full motor freight allowed on shipments of \$5000.00 Net or more, within the continental U.S.A. and Canada, except Alaska, Hawaii and Puerto Rico. MIFAB reserves the right to choose the carrier and route of shipment. Shipping dates are estimates and time of delivery is not the essence of the sale of the contract. Therefore, under no circumstances will MIFAB® have any responsibility on account of any delays in manufacture, transportation, or otherwise. Additional freight services such as construction site delivery, lift gate delivery service, re-consigned freight or notification charges, are not included in full freight allowance terms, and will result in additional freight charges.

**CONCRETE WHOLESALE FREIGHT ALLOWANCE:** Ex Works, MIFAB's Chicago, Illinois Factory or Manufacturer Representative's warehouse with full motor freight allowed on shipments of \$10,000.00 Net or more, within the continental U.S.A. and Canada, except Alaska, Hawaii and Puerto Rico.

**QUOTATION TERMS:** List Price and discount protected for 30 days from date issued by MIFAB®. Orders received within this period must be released for shipment within 30 days from date of purchase order, otherwise, prices will be those that are in effect at the time of shipment.

**PAYMENT TERMS:** Terms of payment are Net 30 days from the date of the invoice. All pricing in United States currency except for sales to Canadian customers which are priced in Canadian dollars. The Buyer shall pay all sales, consumers, and / or any other applicable taxes. Past due accounts will be subject to a 2% per month service charge from the date of the invoice. If any proceedings be instructed by or against Buyer under any bankruptcy or insolvency law, or if Buyer shall fail to make timely payment on this or any other order, or if, in MIFAB's judgment, Buyer's financial situation justifies such action, MIFAB® may, at its election, require payment in advance or cancel the order as to any unshipped item and require payment of its reasonable cancellation charges. If Buyer delays completion of manufacture, MIFAB® may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and expense. In all cases, regardless of partial payment, title to the Products shall remain with MIFAB® until payment for the Products (including any notes given therefore) has been made in full. Should legal action be necessary to enforce payment of an unpaid invoice, the Buyer will assume full responsibility for any court costs and reasonable attorney fees. All orders subject to credit check and approval prior to shipment. Confirmed irrevocable letter of credit or cash in advance of shipment is required for accounts without an established line of credit. Minimum invoice amount is \$100.00. MIFAB® reserves the right to apply a minimum order charge to equal \$100.00. MIFAB's Accounting Department must be notified of potential pricing errors within 30 days of the invoice date. Any terms and conditions stated on Buyer's orders which are inconsistent with MIFAB's quotation and Terms and Warranties shall be of no effect.

**RETURNED GOODS RESTOCKING CHARGE:** Standard product may be returned within a one year period only with written permission from MIFAB®. All products in catalog are not considered Standard. Standard product to be determined by MIFAB®. Returned goods are subject to a 25% restocking charge, plus cost of reconditioning, if necessary, to make material saleable. Material must be returned to MIFAB® freight prepaid only after written permission from MIFAB® to accept the returned material. Buyer must provide copy of the original invoice on which the material was charged. The original outgoing freight cost to ship the order will be deducted from the credit. Credit allowance will be in the form of merchandise credit only-not cash credit which must be used within 12 months of the date of issue. The value of a return must total \$100.00 to qualify for credit allowance. No credit will be allowed for discontinued, or made to order items. Products designated non stock and / or that have been specially made are not subject to return or cancellation.

**LIMITED WARRANTY:** MIFAB® warrants each product against defects in material and workmanship for a period of one year from the date of original shipment. In the event of such defects within the warranty period, MIFAB® will, at its option, replace or recondition the product without charge. This shall constitute the exclusive remedy for breach of warranty, and MIFAB® shall not be responsible for any incidental or consequential damages, including, without limitation, damages or other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemicals, or any other circumstances over which MIFAB® has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product.

**MIFAB® MAKES NO OTHER WARRANTIES EXPRESSED OR IMPLIED AS PROVIDED IN THIS LIMITED WARRANTY.**

**ILLUSTRATIONS OR TYPICAL INSTALLATIONS:** The typical installations for various products in each product section are intended to illustrate the products and their options. Under no circumstances are they to be construed as recommended installation procedures. Consult local codes and project specifications for proper installation instructions.

**ALL SALES SUBJECT TO MIFAB's TERMS And WARRANTIES.**

**NOTE:** Prices and terms are subject to change without notice and supersede all previous quotations. The right is reserved to change or modify product design or construction without prior notice and without incurring any obligation to make similar changes and modifications to product previously or subsequently sold. Contact MIFAB® for any clarification.

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**COMPLETE MIFAB® BINDER**  
(with all product booklets inside)  
Lit # 001B



**MPB-2022-USA**  
Lit # 067



**NH-2022**  
Lit # 044



**CLPB-2022**  
Lit # 048



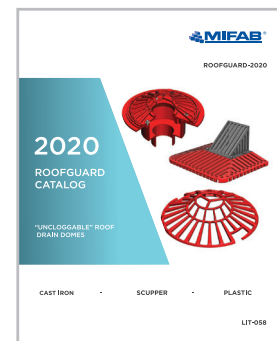
**BEECO-2022**  
Lit # 071



**AD-2021-USA**  
Lit # 043



**TSP-2021-12**  
Lit # 062



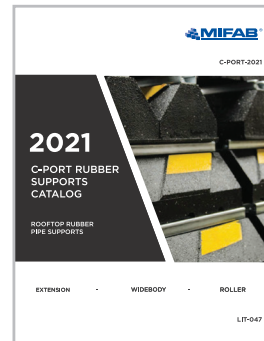
**ROOFGUARD-2020**  
Lit # 058



**HYDROMAX-2020**  
Lit # 082



**DB-2021**  
Lit # 070



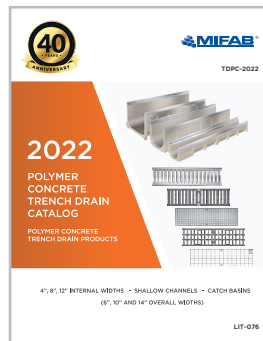
**C-PORT-2021**  
Lit # 047



**INT-2022**  
Lit # 095



**TDSS-2022**  
Lit # 072



**TDPC-2022**  
Lit # 076



**TD-2022**  
Lit # 046



**TDSD-2022**  
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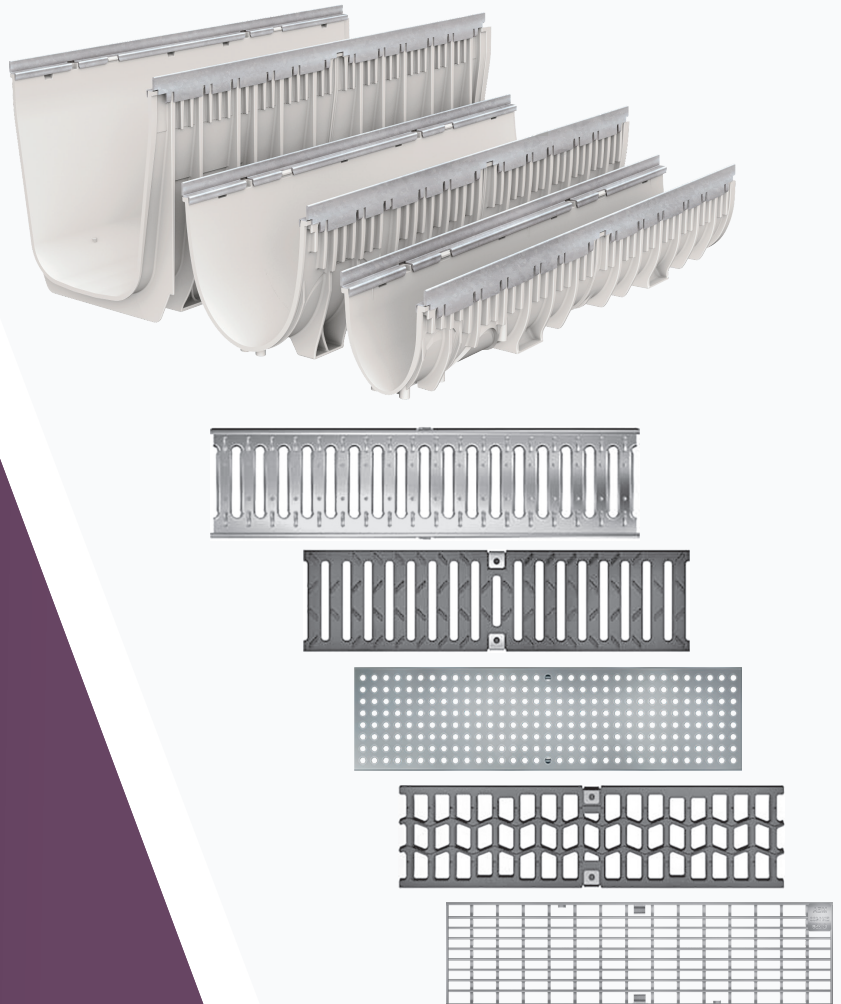


TD-2022

# 2022

## GRP & STEEL TRENCH DRAIN SYSTEMS CATALOG

GRP & STEEL TRENCH  
DRAIN PRODUCTS



2", 4", 8", 12" INTERNAL WIDTHS - SHALLOW BODY - CATCH BASINS  
(3", 6", 10" AND 14" OVERALL WIDTHS)

LIT-046