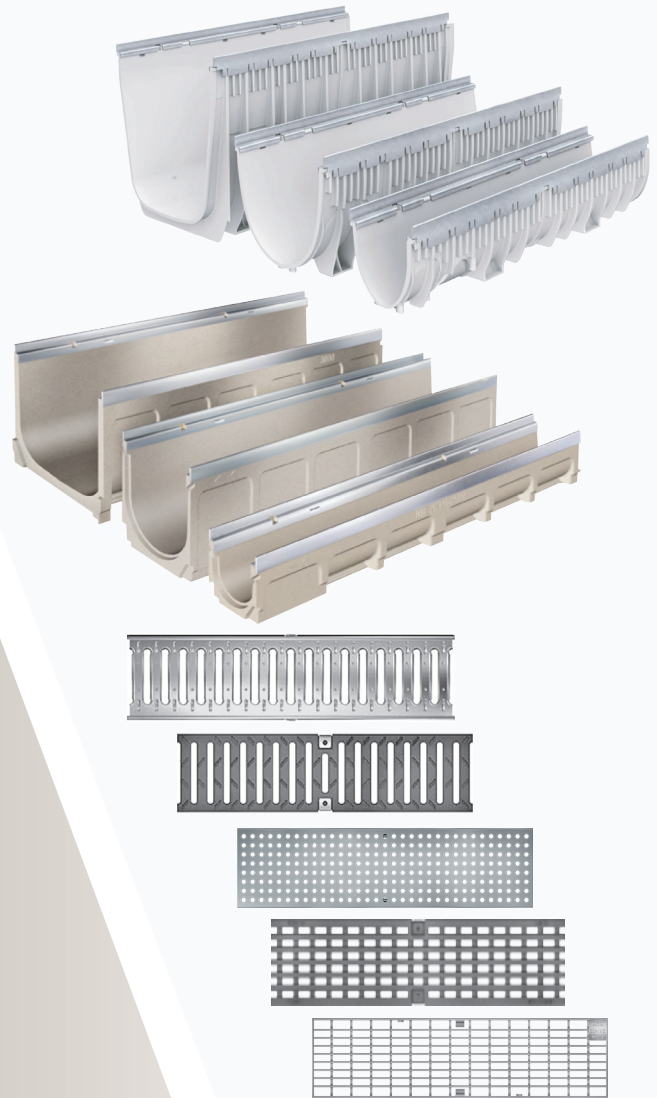




**TD-2025-CONCRETE**

# TRENCH DRAIN CATALOG 2025



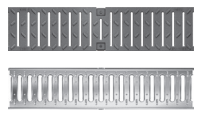

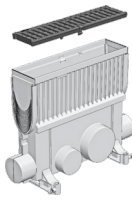








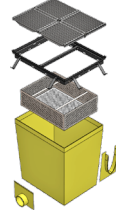
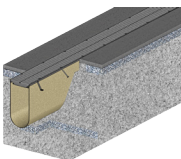
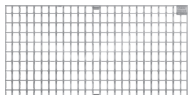
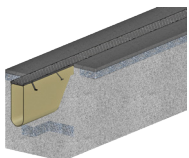
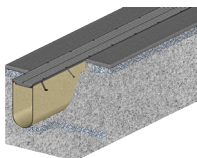

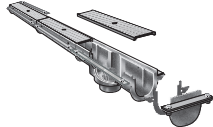
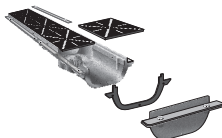

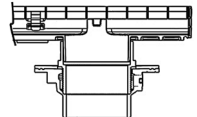
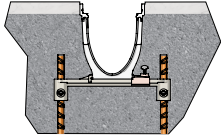
GRP & POLYMER CONCRETE  
TRENCH DRAIN PRODUCTS



**4", 8", 12" INTERNAL WIDTHS - SHALLOW CHANNELS - CATCH BASINS  
(6", 10" AND 14" OVERALL WIDTHS)**

**LIT-086**

**PICTORIAL INDEX**

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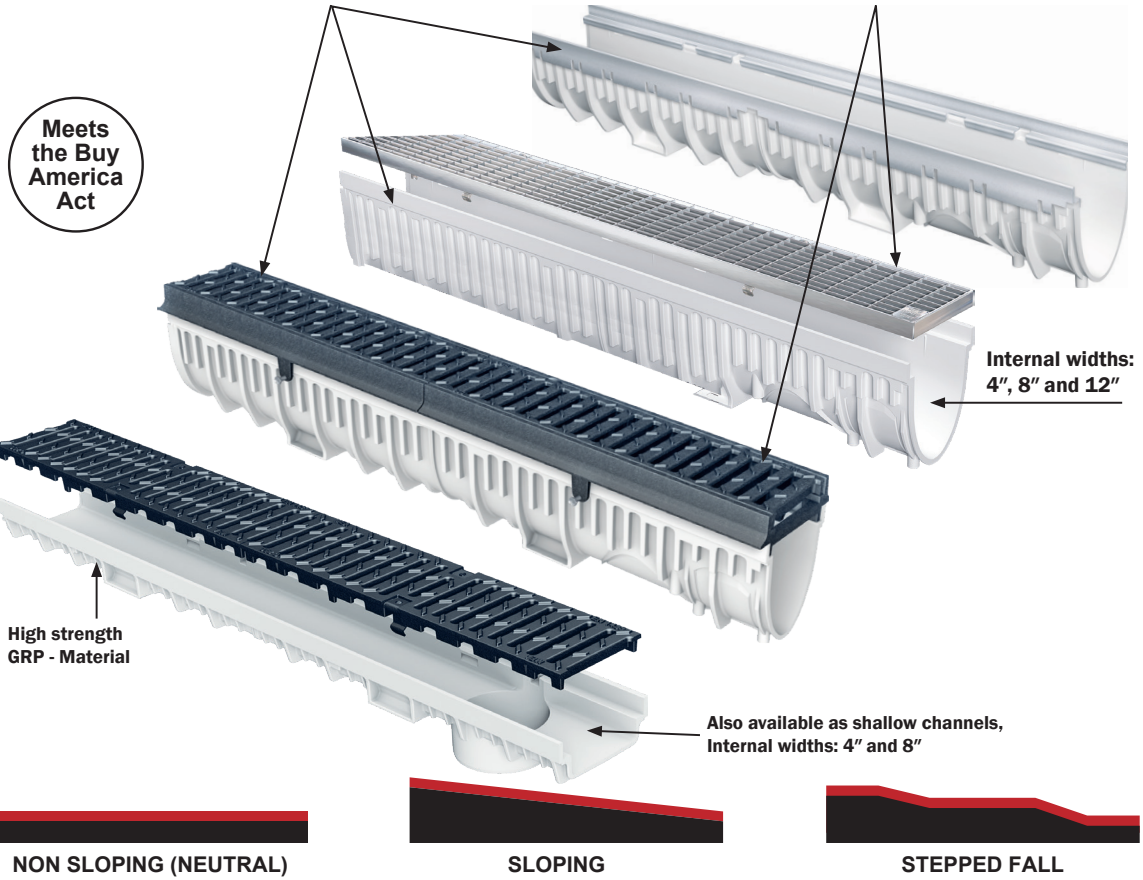
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**GLASS FIBER REINFORCED POLYESTER (GRP) FOR MAXIMUM FLEXIBILITY**

GRP channels with no edge rails, up to and including Load Class D 400 kN and also with 4mm thick galvanized and stainless steel edge rails, up to and including Load Class E 600 kN and ductile iron frame at a Load Class F 900 kN.

Grates are available in plastic, galvanized, stainless steel and ductile iron up to Load Class F 900 kN. Refer to the individual grate pages for specific load ratings by profile.



**The GRP channels are ideal for:**

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

The GRP channels with no edge rails and 4mm edge rails made of galvanized and stainless steel have been designed for maximum stability and easy installation. Ductile iron frame is also available for 4" and 8" internal width GRP channels.

- 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 and longitudinal grates made of galvanized and stainless steel
- Slotted and longitudinal grates available in plastic



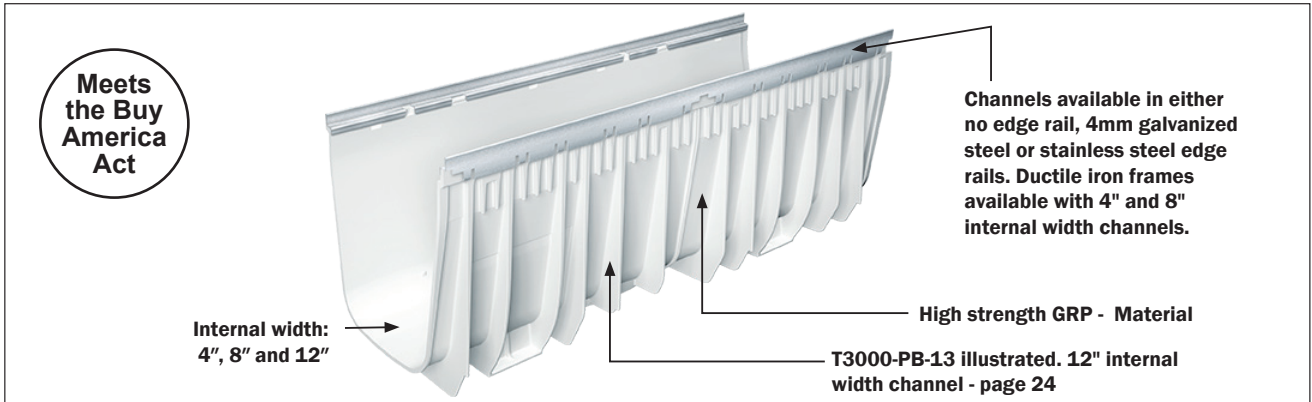
MIFAB's GRP channels are designed with a sealant groove in accordance with the EN 1433 Standard, Section 7.5 - Connecting Channel Elements. This Standard requires all channels to have the joint between channels to be designed in such a way that it can be permanently sealed. Sealant manufacturers recommend a 3/8" bead; which the MIFAB GRP conforms to.

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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 F 900 kN. 4", 8" and 12" internal width channels are available with no edge rails up to and including Load Class D 400 kN and also with 4mm thick galvanized and stainless steel edge rails up to and including Load Class E 600 kN. Ductile iron frame GRP channels are also available for Load Class F 900 kN applications in 4" and 8" internal width channels.

- Drainage channels made of Glass Fiber Reinforced Polyester (GRP)
- Easy to install
- Load Class up to F 900 kN



**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.

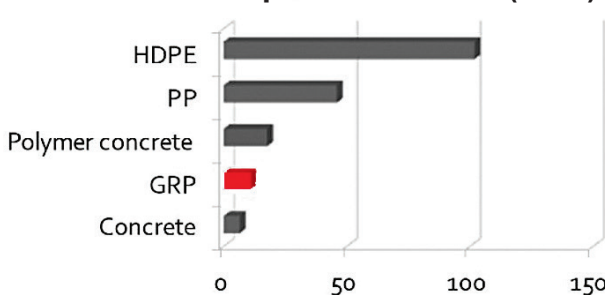
GRP channels are composed of glass fiber reinforced polyester. GRP channels are resistant to most chemicals and acids. A maximum working temperature (constant flow) of 212° Fahrenheit (100° C) and intermittent flow of 392° (200° C) is recommended. Typically, most other plastic materials (HDPE and PP) have a working temperature of 140° to 170° Fahrenheit. Polymer concrete has a maximum working temperature of 180° Fahrenheit. The minimum working temperature of GRP is minus 31° Fahrenheit. GRP channels can have asphalt installed around them with no negative effect on the channels.

**MATERIAL CONSIDERATIONS**

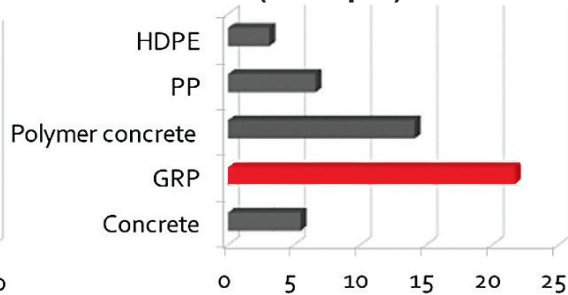
THESE SYSTEMS ARE EXPOSED TO: **ELEMENTS**  
**EXTREME DYNAMIC LOADS**  
**CORROSIVE ENVIRONMENTS**

**A major advantage of GRP channels vs. HDPE and Polypropylene channels is that they will not warp or deform when exposed to the sun and temperature variances.**

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



**Compressive strength (1000 psi)**



**Coefficient of expansion / contraction**

The numbers on the chart represent the net value of the thermal coefficient at 20° C (68° F).

Excessive movement between the channel and concrete around the channel leads to debonding, resulting in undesirable stresses, water ingress and potential failure. 10<sup>-6</sup> IN/oF (0.000001 IN/oF).

GRP's thermal expansion is significantly less than that of HDPE and PP. Therefore, a GRP trench drain system will perform better than the industry standard HDPE and PP alternatives.


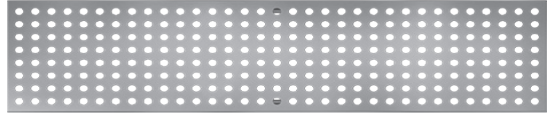
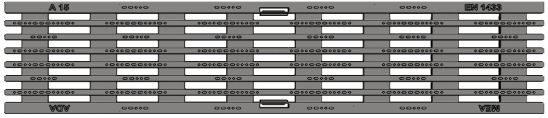
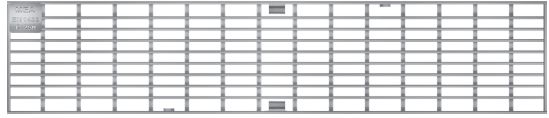


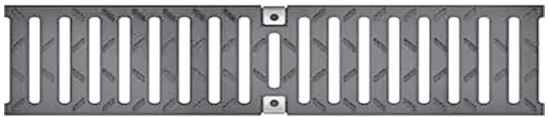
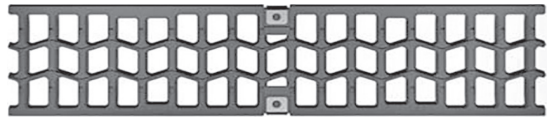

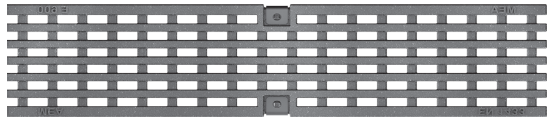

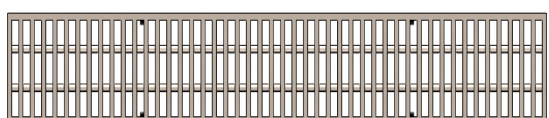
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**CLIPFIX AND PROFIX UNIVERSAL GRATES**

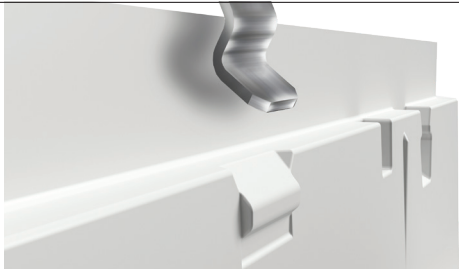
<p><b>GALV. &amp; S.S. - SLOTTED</b></p> <p><b>T300 (A only), T1400, T1460</b></p>  <p>Load Class A,C, E</p>	<p><b>GALV. &amp; S.S. - PERFORATED</b></p>  <p>Load Class A, C</p>
<p><b>PLASTIC - LONGITUDINAL</b></p>  <p>Load Class A</p>	<p><b>GALV. &amp; S.S. - MESH</b></p>  <p>Load Class A, C</p>
<p><b>PLASTIC - SLOTTED</b></p>  <p>Load Class C</p>	<p><b>GALV. &amp; S.S. - LONGITUDINAL</b></p>  <p>Load Class B</p>
<p><b>DUCTILE IRON - SLOTTED</b></p>  <p>Load Class C, E, F</p>	<p><b>DUCTILE IRON - WAVE</b></p>  <p>Load Class C</p>
<p><b>DUCTILE IRON - HEELPROOF</b></p>  <p>Load Class C, E</p>	<p><b>DUCTILE IRON - LONGITUDINAL</b></p>  <p>Load Class E, F</p>
<p><b>DUCTILE IRON - BAVARIA</b></p>  <p>Load Class C</p>	<p><b>STAINLESS STEEL - BAR</b></p>  <p>Load Class E</p>

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

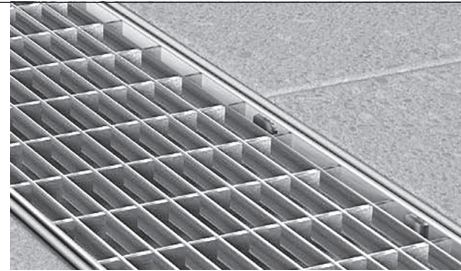
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## CLIPFIX UNIVERSAL GRATE LOCKING DESIGN



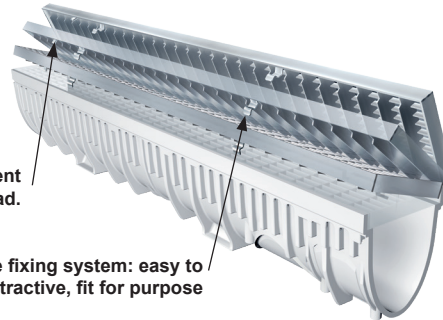
The MIFAB® GRP channels have been designed and optimized for our universal CLIPFIX grate fixing mechanism with longitudinal shift protection. The advantage: a large choice of grates and a comprehensive product offering.



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

Meets the Buy America Act

Longitudinal shift protection system to prevent grate movement under dynamic load.

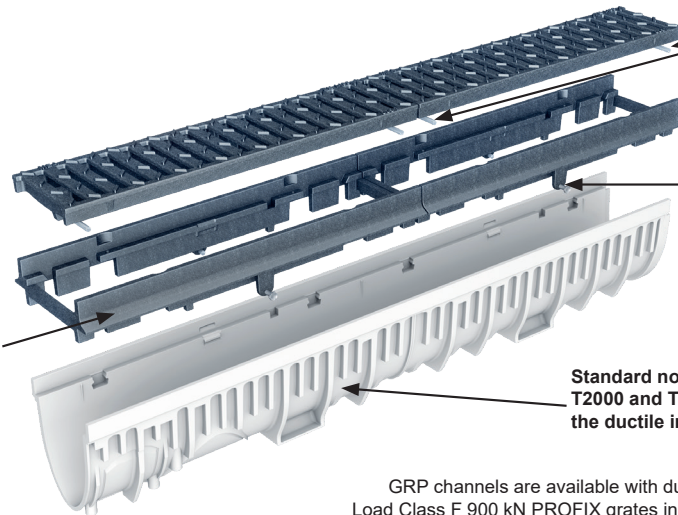


Universal CLIPFIX grate fixing system: easy to install, aesthetically attractive, fit for purpose

## PROFIX UNIVERSAL GRATE LOCKING DESIGN

Meets the Buy America Act

Ductile iron frame accepts CLIPFIX, PROFIX and four-bolt grates.



PROFIX locking bars

Frame sits into the seat recess of the channel. Exterior bolts are tightened to connect frame to channel.

Standard no edge T1400, T1460, T2000 and T2060 channels accept the ductile iron frame.

GRP channels are available with ductile iron frames and Load Class F 900 kN PROFIX grates in 4" and 8" internal widths.

## CHANNEL / GRATE SELECTION GUIDE

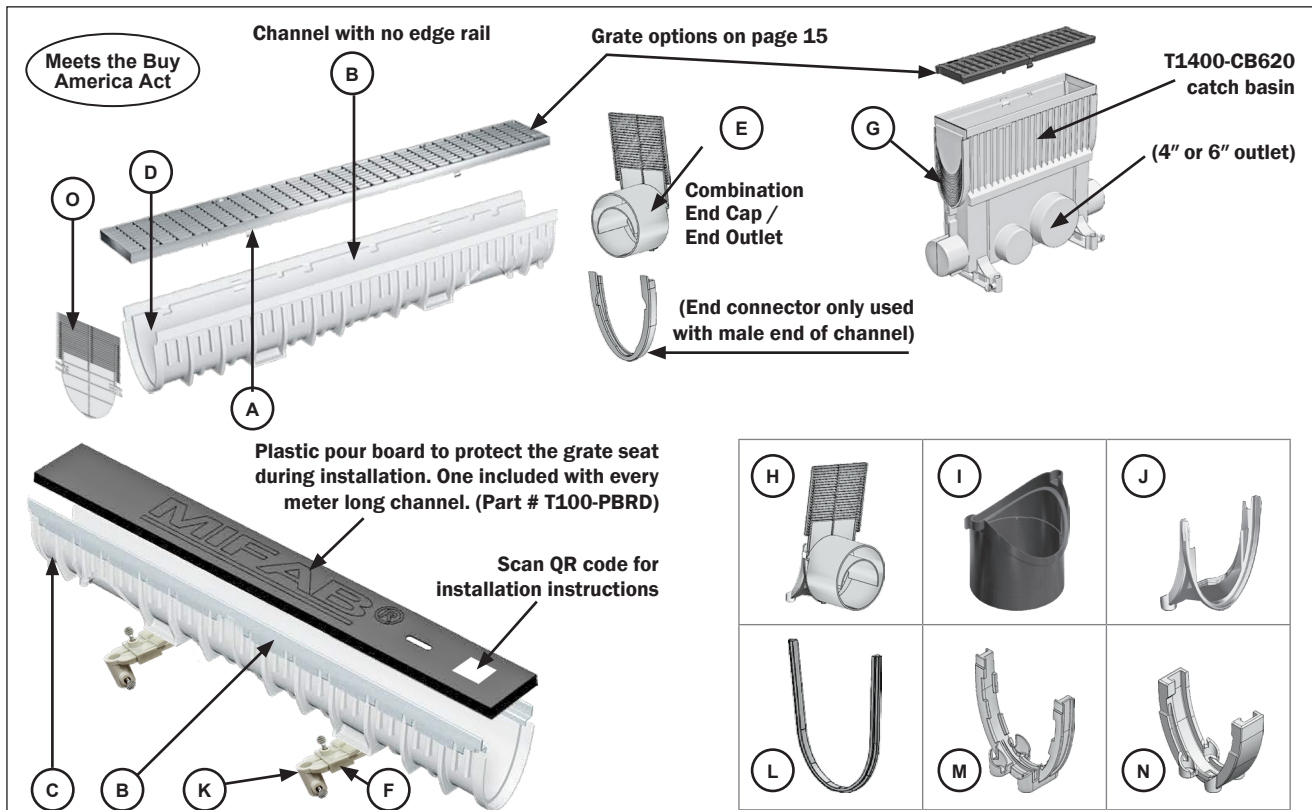
	CHANNEL EDGE RAIL MATERIAL	GRATES				
		Stainless Steel	Galvanized	Ductile Iron	Galvanized Ductile Iron	Plastic
<b>Glass Reinforced Polyester (GRP)</b>	No Edge GRP Channels	X	X	X	X	X
	Stainless Steel Integral Edge GRP Channels	X		X		X
	Galvanized Steel Integral Edge GRP Channels		X	X	X	X
	Ductile Iron Integral Edge GRP Channels			X	X	

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**T1400 SYSTEM COMPONENTS AND FEATURES**


- A. Innovative CLIPFIX grate locking mechanism for plastic, ductile iron (up to and including Load Class E), galvanized and stainless steel grates. Innovative PROFIX grate locking mechanism and 4 bolt locking Load Class F ductile iron grates.
- B. GRP channels with no edge rails, 4mm thick galvanized and stainless steel and ductile iron frames as per EN 1433.
- C. High strength drainage channel body enables Load Class A 15kN to Load Class F 900 kN.
- D. Optimized flow cross section promotes self cleaning.
- E. 3" and 4" socket connection combination end cap / end outlet for male end of the channels for all depths. End connector provided with each end cap / end outlet for male end of channel.
- F. Deep-seated anchorage bays in the drainage channel body ensures mechanical attachment to the concrete Installation device attachment point.
- G. Two end caps, two rebar installation devices (T1400-CB620-REB) and one sediment bucket are provided with every catch basin to accept all channel depths.
- H. Side outlet. (Side channel connector and combination outlet).
- I. 3" and 4" socket connection bottom outlet.
- J. Side channel connector. (Used to receive channels and side outlet).
- K. Rebar installation devices (plastic). Two included with every meter long channel.
- L. Channel insert to fill sealant groove between channels (if required).
- M. T1400-PMCC. Male to male channel connector for 1 meter long T1400 channels. (with four self tapping screws)
- N. T1400-PFMC. Female to male channel connector for 1 meter long T1400 channels. One provided at no charge with every T1400 meter long channel. (with four self tapping screws).
- O. End cap for female end of the channel for all channel depths (T1400-PEC).

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

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.



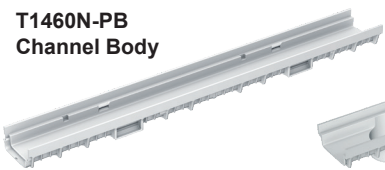
Heelproof grates are designed to resist entry of pointed high heel shoes from entering the trench drain grate opening. ASME Standard A112.6.3, Section 7.12 defines Heelproof as: "A grate designed to resist entry of high-heeled shoes, in which the maximum grate hole size in least dimension shall be 5/16"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




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**T1460 - 4" INTERNAL WIDTH - SHALLOW CHANNELS AND CATCH BASINS**

**T1460N-PB Channel Body**

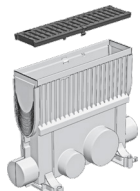



**T1460N-PB-BO4 Channel Body with integral 4" outlet**



**Meets the Buy America Act**

**T1400-CB620 Catch Basin**






SCAN FOR SPEC. SHEETS

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

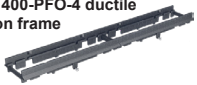
NO EDGE RAILS (for up to and including Load Class C grates)	BODY TYPE	INVERT BODY DEPTH	T1460N-PB (two stair-step grates) brackets with mounting hardware. (See page 44)	OVERALL BODY DEPTH	MAXIMUM FLOW RATE GPM	WEIGHT (LESS GRATE) Lbs.
Channel Model #	Neutral - 0%					
<b>T1460N-PB</b>	Neutral	2"		2.17"	55	4.12
<b>T1460N-PB-500</b> (half meter long)	Neutral	2"		2.17"	55	2.05
<b>T1460N-PB-BO4</b>	Neutral	2"		2.17"	55	4.12
<b>T1460N-SVF-3</b>	Type 304 Stainless Steel veneer frame for T1460N no edge channels, one meter long.					
<b>T1400-PFO-4</b>	Load Class F Ductile Iron frame for T1400 and T1460N no edge channels, half meter long, (two pieces needed per channel)					

**T1460-CI channel insert**



**T1460-CI - channel insert** for T1460 shallow channels, if required.

**T1400-PFO-4 ductile iron frame**



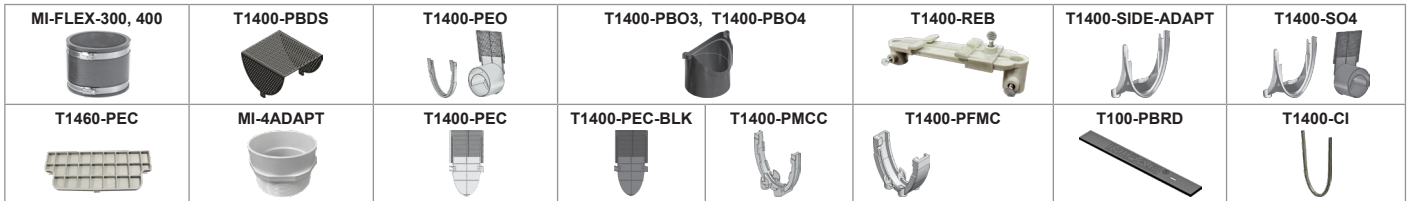
Load Class F Ductile Iron frame for T1400 and T1460N channels

Available March, 2025

**CATCH BASINS FOR T1400 CHANNELS**

GALVANIZED STEEL INTEGRAL EDGE RAILS (for up to and including Load Class E grates)	NO EDGE RAILS (for up to and including Load Class C grates)	STAINLESS STEEL INTEGRAL EDGE RAILS (for up to and including Load Class E grates)	DUCTILE IRON FRAME (for Load Class F grates)	BODY TYPE	INVERT DEPTH	OVERALL DEPTH	WEIGHT (LESS GRATE) Lbs.
Catch Basin Model #	Catch Basin Model #	Catch Basin Model #	Catch Basin Model #	Neutral - 0%			
<b>T1400-CB620-13</b>	<b>T1400-CB620</b>	<b>T1400-CB620-3</b>	<b>T1400-CB620-4</b>	Neutral	19"	19.18"	12.74
Replacement sediment bucket	<b>T1400-CB620-SB</b>						

**NOTE: All catch basins are shipped with a sediment bucket, two end caps and two rebar installation devices.**



MODEL #	DESCRIPTION	MATERIAL
<b>MI-FLEX-300</b>	3" Flexible rubber coupling to connect 3" No Hub horizontal and vertical channel outlets to drainage pipe	Rubber
<b>MI-FLEX-400</b>	4" Flexible rubber coupling to connect 4" No Hub vertical and horizontal channel outlets to drainage pipe	Rubber
<b>T1400-PBDS</b>	Bottom Outlet Strainer	Stainless Steel
<b>T1400-PEO</b>	3" and 4" socket connection combination male end cap / end outlet, with connector	Plastic
<b>T1400-PEC</b>	End cap for female end channels	Plastic
<b>T1400-PEC-BLK</b>	End cap for female end channels with ductile iron rails - black color	Plastic
<b>T1400-PBO3</b>	3" socket connection bottom outlet	Plastic
<b>T1400-PBO4</b>	4" socket connection bottom outlet	Plastic
<b>T1400-REB</b>	Replacement Installation Device. <b>Two provided at no charge with every T1400 meter long channel</b>	Plastic
<b>T1400-SIDE-ADAPT</b>	Side Outlet Adapter for T1400N, T1410N and T1420N channels	Plastic
<b>T1400-SO4</b>	Side Outlet Connector (T1400-SIDE-ADAPT and T1400-PEO for T1400N, T1410N and T1420N channels)	Plastic
<b>T1460-PEC</b>	Closed End Cap for T1460N channels	Plastic
<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(See page 42 for application)	Plastic
<b>T1400-CI</b>	Channel insert to fill expansion gap between channels (if required)	Plastic
<b>T1400-PMCC</b>	Male to male channel connector for 1 meter long T1400 channels	Plastic
<b>T1400-PFMC</b>	Female to male channel connector for 1 meter long T1400 channels. <b>One provided at no charge with every T1400 meter long channel (with four self tapping screws)</b>	Plastic
<b>T100-PBRD</b>	Replacement pour board to protect the channel during installation. <b>One included at no charge with every T1400 meter long channel</b>	Plastic

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

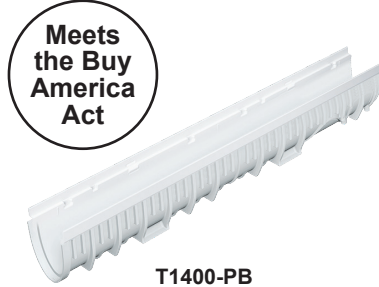
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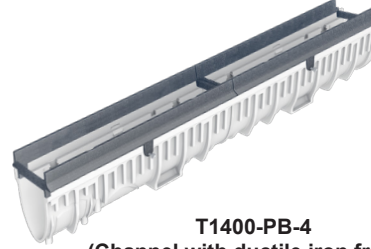
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**T1400-PB-13, T1400-PB-3**  
(Channels with galvanized and stainless steel integral edge rails)



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



**T1400-PB-4**  
(Channel with ductile iron frame)



SCAN FOR SPEC. SHEETS

GALVANIZED STEEL INTEGRAL EDGE RAILS (for up to and including Load Class E grades)	NO EDGE RAILS (for up to and including Load Class C grades)	STAINLESS STEEL INTEGRAL EDGE RAILS (for up to and including Load Class E grades)	DUCTILE IRON FRAME (for Load Class F grades)	BODY TYPE	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE GPM	WEIGHT (LESS GRATE) Lbs.
					E1 (Min.)	E2 (Max.)	E1 (Min.)	E2 (Max.)		
Channel Model #	Channel Model #	Channel Model #	Channel Model #	Sloped - .5% Neutral - 0%						
T1400N-PB-13	T1400N-PB	T1400N-PB-3	T1400N-PB-4	Neutral	5.78"	5.78"	6.23"	6.23"	137	7.94
T1400N-PB-13-500	T1400N-PB-500	T1400N-PB-3-500	T1400N-PB-4-500	Neutral	5.78"	5.78"	6.23"	6.23"	137	4.41
T1400N-PB-13-500-DC	T1400N-PB-500-DC	T1400N-PB-3-500-DC	T1400N-PB-4-500-DC	Neutral	5.78"	5.78"	6.23"	6.23"	137	4.41
T1401-PB-13	T1401-PB	T1401-PB-3	T1401-PB-4	Sloped	5.78"	5.98"	6.23"	6.42"	146	8.16
T1402-PB-13	T1402-PB	T1402-PB-3	T1402-PB-4	Sloped	5.98"	6.18"	6.42"	6.62"	155	8.32
T1403-PB-13	T1403-PB	T1403-PB-3	T1403-PB-4	Sloped	6.18"	6.38"	6.62"	6.82"	163	8.49
T1404-PB-13	T1404-PB	T1404-PB-3	T1404-PB-4	Sloped	6.38"	6.57"	6.82"	7.01"	173	8.66
T1405-PB-13	T1405-PB	T1405-PB-3	T1405-PB-4	Sloped	6.57"	6.77"	7.01"	7.21"	182	8.83
T1406-PB-13	T1406-PB	T1406-PB-3	T1406-PB-4	Sloped	6.77"	6.97"	7.21"	7.41"	192	8.99
T1407-PB-13	T1407-PB	T1407-PB-3	T1407-PB-4	Sloped	6.97"	7.16"	7.41"	7.60"	203	9.16
T1408-PB-13	T1408-PB	T1408-PB-3	T1408-PB-4	Sloped	7.16"	7.36"	7.60"	7.80"	212	9.33
T1409-PB-13	T1409-PB	T1409-PB-3	T1409-PB-4	Sloped	7.36"	7.56"	7.80"	8.00"	223	9.50
T1410-PB-13	T1410-PB	T1410-PB-3	T1410-PB-4	Sloped	7.56"	7.75"	8.00"	8.19"	235	9.67
T1410N-PB-13	T1410N-PB	T1410N-PB-3	T1410N-PB-4	Neutral	7.75"	7.75"	8.19"	8.19"	235	9.57
T1410N-PB-13-500	T1410N-PB-500	T1410N-PB-3-500	T1410N-PB-4-500	Neutral	7.75"	7.75"	8.19"	8.19"	235	4.78
T1410N-PB-13-500-DC	T1410N-PB-500-DC	T1410N-PB-3-500-DC	T1410N-PB-4-500-DC	Neutral	7.75"	7.75"	8.19"	8.19"	235	4.78
T1411-PB-13	T1411-PB	T1411-PB-3	T1411-PB-4	Sloped	7.75"	7.95"	8.19"	8.39"	246	9.83
T1412-PB-13	T1412-PB	T1412-PB-3	T1412-PB-4	Sloped	7.95"	8.15"	8.39"	8.59"	262	10.00
T1413-PB-13	T1413-PB	T1413-PB-3	T1413-PB-4	Sloped	8.15"	8.34"	8.59"	8.78"	273	10.17
T1414-PB-13	T1414-PB	T1414-PB-3	T1414-PB-4	Sloped	8.34"	8.54"	8.78"	8.98"	285	10.34
T1415-PB-13	T1415-PB	T1415-PB-3	T1415-PB-4	Sloped	8.54"	8.74"	8.98"	9.18"	298	10.50
T1416-PB-13	T1416-PB	T1416-PB-3	T1416-PB-4	Sloped	8.74"	8.93"	9.18"	9.38"	311	10.67
T1417-PB-13	T1417-PB	T1417-PB-3	T1417-PB-4	Sloped	8.93"	9.13"	9.38"	9.57"	323	10.84
T1418-PB-13	T1418-PB	T1418-PB-3	T1418-PB-4	Sloped	9.13"	9.33"	9.57"	9.77"	338	11.01
T1419-PB-13	T1419-PB	T1419-PB-3	T1419-PB-4	Sloped	9.33"	9.53"	9.77"	9.97"	350	11.17
T1420-PB-13	T1420-PB	T1420-PB-3	T1420-PB-4	Sloped	9.53"	9.72"	9.97"	10.16"	365	11.34
T1420N-PB-13	T1420N-PB	T1420N-PB-3	T1420N-PB-4	Neutral	9.72"	9.72"	10.16"	10.16"	365	11.42
T1420N-PB-13-500	T1420N-PB-500	T1420N-PB-3-500	T1420N-PB-4-500	Neutral	9.72"	9.72"	10.16"	10.16"	365	5.71
T1420N-PB-13-500-DC	T1420N-PB-500-DC	T1420N-PB-3-500-DC	T1420N-PB-4-500-DC	Neutral	9.72"	9.72"	10.16"	10.16"	365	5.71

AVAILABLE MARCH, 2025

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)	Weight	Grate Free Area (Sq. in./ft.)
T100-PGA-13-FP	Class A Galvanized Perforated Grate, 1 meter	39.37" (1000)	3.85	8.08
T100-PGA-13-FP-500	Class A Galvanized Perforated Grate, 1/2 meter	19.69" (500)	2.09	8.08
T100-PGA-3-FP	Class A Stainless Steel Perforated Grate, 1 meter	39.37" (1000)	3.85	8.08
T100-PGA-3-FP-500	Class A Stainless Steel Perforated Grate, 1/2 meter	19.69" (500)	2.09	8.08
T100-PGA-13-FS	Class A Galvanized Slotted Grate, 1 meter	39.37" (1000)	3.08	13.31
T100-PGA-13-FS-500	Class A Galvanized Slotted Grate, 1/2 meter	19.69" (500)	2.86	13.31
T100-PGA-3-FS	Class A Stainless Steel Slotted Grate, 1 meter	39.37" (1000)	3.12	13.31
T100-PGA-3-FS-500	Class A Stainless Steel Slotted Grate, 1/2 meter	19.69" (500)	2.42	13.31
T100-PGA-3-SM	Class A Stainless Steel Mesh Grate, 1 meter	39.37" (1000)	5.72	40.17
T100-PGA-3-SM-500	Class A Stainless Steel Mesh Grate, 1/2 meter	19.69" (500)	3.08	40.17
T100-PGA-HPP-BLK	Class A Plastic Longitudinal, Slotted Black Grate, 1/2 meter	19.69" (500)	1.80	7.56
T100-PGA-HPP-GRY	Class A Plastic Longitudinal, Slotted Grey Grate, 1/2 meter	19.69" (500)	1.80	7.56

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

T100-PGB-13-LS	Class B Galvanized Longitudinal Grate, 1 meter	39.37" (1000)	8.80	28.05
T100-PGB-13-LS-500	Class B Galvanized Longitudinal Grate, 1/2 meter	19.69" (500)	4.37	28.05
T100-PGB-3-WW	Class B Stainless Steel Longitudinal, anti slip, WW Grate, 1 meter	39.37" (1000)	8.80	26.52
T100-PGB-3-WW-500	Class B Stainless Steel Longitudinal, anti slip, WW Grate, 1/2 meter	19.69" (500)	4.37	26.52

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

T100-PGC-13-FP	Class C Galvanized Perforated Grate, 1 meter	39.37" (1000)	9.04	8.08
T100-PGC-13-FP-500	Class C Galvanized Perforated Grate, 1/2 meter	19.69" (500)	4.51	8.08
T100-PGC-3-FP	Class C Stainless Steel Perforated Grate, 1 meter	39.37" (1000)	9.04	8.08
T100-PGC-3-FP-500	Class C Stainless Steel Perforated Grate, 1/2 meter	19.69" (500)	4.51	8.08
T100-PGC-13-FS	Class C Galvanized Slotted Grate, 1 meter	39.37" (1000)	9.68	13.31
T100-PGC-13-FS-500	Class C Galvanized Slotted Grate, 1/2 meter	19.69" (500)	4.59	13.31
T100-PGC-3-FS	Class C Stainless Steel Slotted Grate, 1 meter	39.37" (1000)	9.32	13.31
T100-PGC-3-FS-500	Class C Stainless Steel Slotted Grate, 1/2 meter	19.69" (500)	4.62	13.31
T100-PGC-13-GM	Class C Galvanized Mesh Grate, 1 meter	39.37" (1000)	11.50	40.75
T100-PGC-13-GM-500	Class C Galvanized Mesh Grate, 1/2 meter	19.69" (500)	5.80	40.75
T100-PGC-3-SM	Class C Stainless Steel Mesh Grate, 1 meter	39.37" (1000)	11.50	40.75
T100-PGC-3-SM-500	Class C Stainless Steel Mesh Grate, 1/2 meter	19.69" (500)	5.80	40.75
T100-PGC-13-SD	Class C Galvanized Paverslot Grate, 1 meter	39.37" (1000)	10.25	6.00
T100-PGC-13-SD-500	Class C Galvanized Paverslot Grate, 1/2 meter	19.69" (500)	5.23	6.00
T100-PGC-13-SD-MU-500	Class C Galvanized Maintenance Unit Paverslot, 1/2 meter	19.69" (500)	7.43	3.00
T100-PGC-3-SD	Class C Stainless Steel Paverslot Grate, 1 meter	39.37" (1000)	10.07	6.00
T100-PGC-3-SD-500	Class C Stainless Steel Paverslot Grate, 1/2 meter	19.69" (500)	5.06	6.00
T100-PGC-3-SD-MU-500	Class C Stainless Steel Maintenance Unit Paverslot, 1/2 meter	19.69" (500)	7.43	3.00
T100-PGC-HPP	Class C Black Plastic Slotted Grate, 1/2 meter	19.69" (500)	2.35	9.84
T100-PGC-4	Class C Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	7.26	16.64
T100-PGC-4-13	Class C Galvanized Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	7.26	16.64
T100-PGC-4-HP	Class C Ductile Iron Heelproof Slotted Grate, 1/2 meter	19.69" (500)	7.26	7.42
T100-PGC-4-ADA	Class C Ductile Iron Longitudinal Grate, 1/2 meter	19.69" (500)	7.26	7.42
T100-PGC-4-ADA-13	Class C Galvanized Ductile Iron Longitudinal Grate, 1/2 meter	19.69" (500)	7.26	7.42
T100-PGC-4-WVY	Class C Ductile Iron WAVE Grate, 1/2 meter	19.69" (500)	10.12	25.96
T100-PGC-4-BG	Class C Ductile Iron Bavaria Grate, 1/2 meter	19.69" (500)	6.60	13.88
T100-SCC-4	Class C Ductile Iron Solid Cover, 1/2 meter	19.69" (500)	13.00	-

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

T100-PGE-13-FS	Class E Galvanized Slotted Grate, 1 meter	39.37" (1000)	9.68	13.31
T100-PGE-13-FS-500	Class E Galvanized Slotted Grate, 1/2 meter	19.69" (500)	4.59	13.31
T100-PGE-3-FS	Class E Stainless Steel Slotted Grate, 1 meter	39.37" (1000)	9.32	13.31
T100-PGE-3-FS-500	Class E Stainless Steel Slotted Grate, 1/2 meter	19.69" (500)	4.62	13.31
T100-PGE-4	Class E Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	8.36	19.49
T100-PGE-4-13	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	8.36	19.49
T100-PGE-4-HP	Class E Ductile Iron Heelproof Slotted Grate, 1/2 meter	19.69" (500)	8.36	7.42
T100-PGE-4-ADA	Class E Ductile Iron Longitudinal Grate, 1/2 meter	19.69" (500)	10.70	18.07
T100-PGE-4-ADA-13	Class E Galvanized Ductile Iron Longitudinal Grate, 1/2 meter	19.69" (500)	10.70	18.07
T100-PGE-3-SBG	Class E Stainless Steel Bar Grate	39.37" (1000)	12.00	24.70
T100-PGE-3-SBG-500	Class E Stainless Steel Bar Grate, 1/2 meter	19.69" (500)	7.00	24.70

**LOAD CLASS F GRATES - EN 1433 - 202,320 lbs., 900 Kn, 4,177 P.S.I.**

T100-PGF-4-PX	Class F Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	9.50	18.83
T100-PGF-4-PX-13	Class F Galvanized Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	9.50	18.83
T100-PGF-4-B	Class F Ductile Iron 4 bolt slotted grate, 1/2 meter	19.69" (500)	9.50	18.83
T100-PGF-4-B-13	Class F Galvanized Ductile Iron 4 bolt slotted grate, 1/2 meter	19.69" (500)	9.50	18.83
T100-PGF-4-ADA-PX	Class F Ductile Iron Longitudinal Grate, 1/2 meter	19.69" (500)	12.00	18.07
T100-PGF-4-ADA-PX-13	Class F Galvanized Ductile Iron Longitudinal Grate, 1/2 meter	19.69" (500)	12.00	18.07

ONLY AVAILABLE WITH DUCTILE IRON FRAME CHANNELS. Avail. March, 2025

See page 12 for explanation of ADA compliant grates  
 See page 12 for explanation of Heelproof compliant grates

Black acid resistant epoxy coated ductile iron grates (-11B) are available. Same price as the -13 grates.

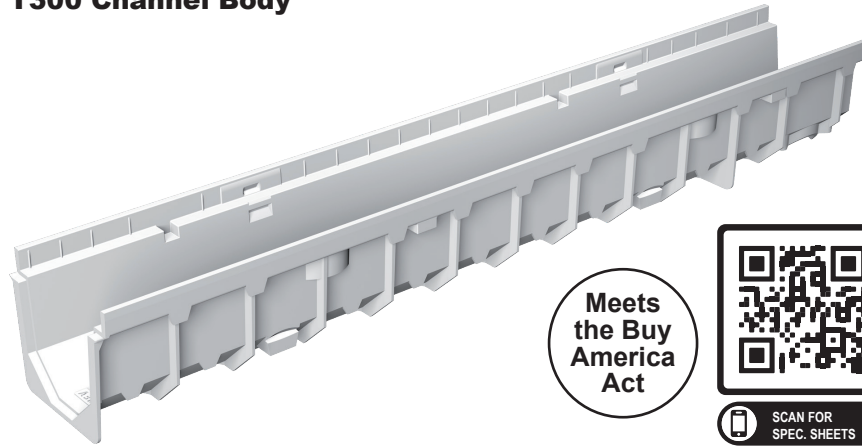
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**T300 Channel Body**



Meets  
the Buy  
America  
Act



SCAN FOR  
SPEC. SHEETS

**T300-CB420 Catch Basin**



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

NO EDGE RAILS (for up to and including Load Class B grates)	BODY TYPE	INVERT BODY DEPTH	OVERALL BODY DEPTH	MAXIMUM FLOW RATE	WEIGHT (LESS GRATE)
Channel Model #	Neutral - 0%			GPM	Lbs.
<b>T300-PB</b>	Neutral	4.80"	5"	100	5.72
<b>T300-SVF-3</b>	Type 304 Stainless Steel veneer frame for T300 no edge channels, one meter long.				

**CATCH BASINS FOR T300 CHANNELS**

NO EDGE RAILS (for up to and including Load Class B grates)	BODY TYPE	INVERT DEPTH	OVERALL DEPTH	WEIGHT (LESS GRATE)
Catch Basin Model #	Neutral - 0%			Lbs.
<b>T300-CB420</b>	Neutral	13"	15.55"	8.80
<b>T300-CB420-SB</b>	Replacement sediment bucket			

NOTE: All catch basins are shipped with a sediment bucket.



MODEL #	DESCRIPTION	MATERIAL
<b>MI-FLEX-300</b>	3" Flexible rubber coupling to connect 3" No Hub horizontal channel outlets to drainage pipe	Rubber
<b>MI-FLEX-400</b>	4" Flexible rubber coupling to connect 4" No Hub vertical and horizontal channel outlets to drainage pipe.	Rubber
<b>T300-PBDS</b>	Bottom Outlet Strainer	Stainless Steel
<b>T300-PEO3</b>	3" socket connection combination male end cap / end outlet, with connector	Plastic
<b>T300-BO4</b>	4" socket connection bottom outlet	Plastic
<b>T300-REB</b>	Replacement Installation Device. <b>One provided at no charge with every T300 meter long channel.</b>	Plastic
<b>T300-PEC</b>	End cap for female end channels	Plastic

Available  
March, 2025

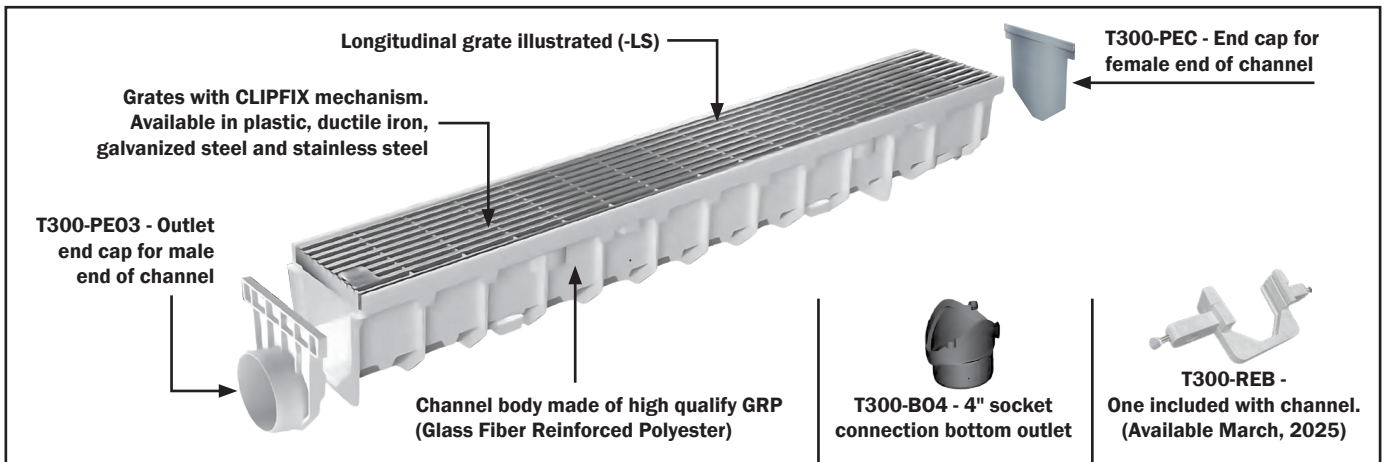
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**LOAD CLASS A GRATES - EN 1433 - 3,372 LBS., 15kN, 70 P.S.I.**

Grate Part #	Description		Length (MM)	Weight	Grate Free Area (Sq. in. /ft.)
T100-PGA-13-FP	Class A Galvanized Perforated Grate, 1 meter		39.37" (1000)	3.85	8.08
T100-PGA-13-FP-500	Class A Galvanized Perforated Grate, 1/2 meter		19.69" (500)	2.09	8.08
T100-PGA-3-FP	Class A Stainless Steel Perforated Grate, 1 meter		39.37" (1000)	3.85	8.08
T100-PGA-3-FP-500	Class A Stainless Steel Perforated Grate, 1/2 meter		19.69" (500)	2.09	8.08
T100-PGA-13-FS	Class A Galvanized Slotted Grate, 1 meter		39.37" (1000)	3.08	13.31
T100-PGA-13-FS-500	Class A Galvanized Slotted Grate, 1/2 meter		19.69" (500)	2.86	13.31
T100-PGA-3-FS	Class A Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	3.12	13.31
T100-PGA-3-FS-500	Class A Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	2.42	13.31
T100-PGA-3-SM	Class A Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	5.72	40.17
T100-PGA-3-SM-500	Class A Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	3.08	40.17
T100-PGA-HPP-BLK	Class A Plastic Longitudinal, Slotted Black Grate, 1/2 meter		19.69" (500)	1.80	7.56
T100-PGA-HPP-GRY	Class A Plastic Longitudinal, Slotted Grey Grate, 1/2 meter		19.69" (500)	1.80	7.56

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

T100-PGB-13-LS	Class B Galvanized Longitudinal Grate, 1 meter		39.37" (1000)	8.80	28.05
T100-PGB-13-LS-500	Class B Galvanized Longitudinal Grate, 1/2 meter		19.69" (500)	4.37	28.05
T100-PGB-3-WW	Class B Stainless Steel Longitudinal, anti slip, WW Grate, 1 meter		39.37" (1000)	8.80	26.52
T100-PGB-3-WW-500	Class B Stainless Steel Longitudinal, anti slip, WW Grate, 1/2 meter		19.69" (500)	4.37	26.52
T100-PGB-4	Class B Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	5.00	7.00



**TYPICAL T300 INSTALLATIONS**



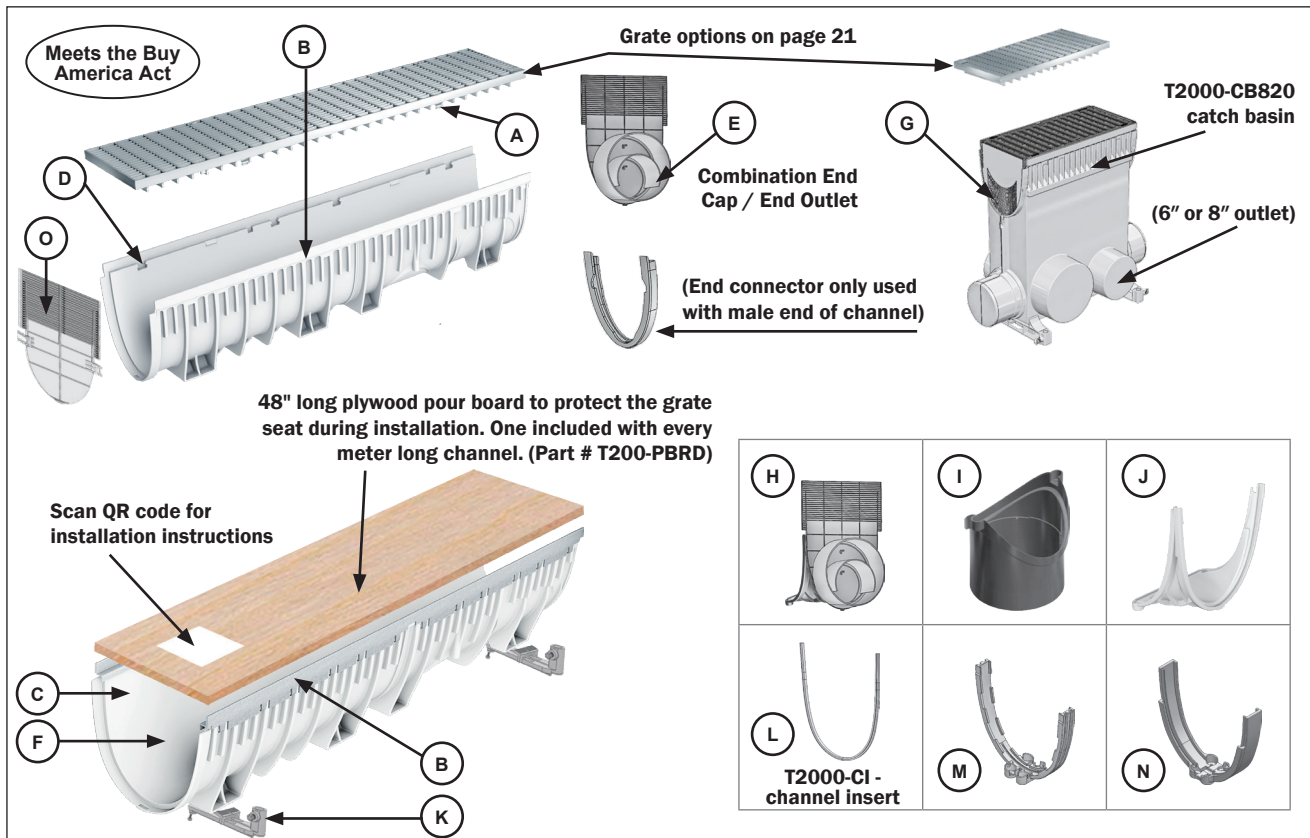
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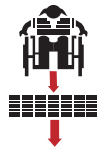


**T2000 SYSTEM COMPONENTS AND FEATURES**


- A. Innovative CLIPFIX grate locking mechanism for plastic, ductile iron (up to and including Load Class E), galvanized and stainless steel grates. Innovative PROFIX grate locking mechanism and 4 bolt locking Load Class F ductile iron grates.
- B. GRP channels with no edge rails and also with 4mm thick galvanized and stainless steel and ductile iron frames as per EN 1433.
- C. High strength drainage channel body enables Load Class A 15kN to Load Class F 900 kN.
- D. Optimized flow cross section promotes self cleaning.
- E. Socket connection combination 4" and 6" 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. Two end caps, two rebar installation devices (T2000-CB820-REB) and one sediment bucket are provided with every catch basin to accept all channel depths.
- H. Side outlet. (Side channel connector and combination outlet).
- I. 4" and 6" socket connection bottom outlet.
- J. Side channel connector. (Used to receive channels and side outlet).
- K. Rebar installation devices (plastic). Two included with every meter long channel.
- L. Channel insert to fill sealant groove between channels (if required)
- M. T2000-PMCC. Male to male channel connector for one meter long T2000 and T2020 channels. (with four self tapping screws).
- N. T2000-PFMC. Female to male channel connector for 1 meter long T2000 channels. One provided at no charge with every T2000 meter long channel. (with four self tapping screws).
- O. End cap for female end of the channel for all channel depths (T2000-PEC).

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

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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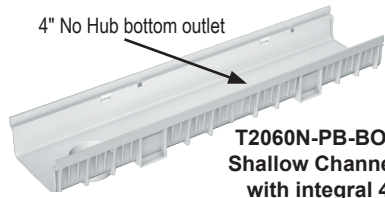
T2060 - 8" INTERNAL WIDTH - SHALLOW CHANNELS

T2060N-PB Shallow Channel

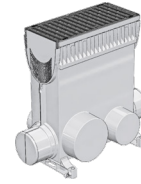


Meets the Buy America Act

4" No Hub bottom outlet



T2060N-PB-BO4 Shallow Channel with integral 4" outlet



T2000-CB820 Catch Basin



SCAN FOR SPEC. SHEETS

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

NO EDGE RAILS (for up to and including Load Class C grates) Channel Model #	BODY TYPE Neutral - 0%	INVERT BODY DEPTH	T2060N-F (two stainless steel brackets with mounting hardware)	OVERALL BODY DEPTH	MAXIMUM FLOW RATE GPM	WEIGHT (LESS GRATE) Lbs.
T2060N-PB	Neutral	3.54"		3.94"	260	7.45
T2060N-PB-500 (1/2 Meter long)	Neutral	3.54"		3.94"	260	3.73
T2060N-PB-BO4	Neutral	3.54"		3.94"	260	7.45
T2060N-SVF-3	Type 304 Stainless Steel veneer frame for T2060N no edge channels, one meter long.			T2000-PFO-4 ductile iron frame		
T2000-PFO-4	Load Class F Ductile Iron frame for T2000 and T2060N no edge channels, one meter long, (two pieces needed per channel)			Load Class F Ductile Iron frame for T2000 and T2060N channels		

Available March, 2025

CATCH BASINS FOR T2000 AND T2060 CHANNELS

GALVANIZED STEEL INTEGRAL EDGE RAILS (for up to and including Load Class E grates) Catch Basin Model #	NO EDGE RAILS (for up to and including Load Class C grates) Catch Basin Model #	STAINLESS STEEL INTEGRAL EDGE RAILS (for up to and including Load Class E grates) Catch Basin Model #	DUCTILE IRON FRAME (for Load Class F grates) Catch Basin Model #	BODY TYPE Neutral - 0%	INVERT DEPTH	OVERALL DEPTH	WEIGHT (LESS GRATE) Lbs.
T2000-CB820-13 Replacement sediment bucket	T2000-CB820 T2000-CB820-SB	T2000-CB820-3	T2000-CB820-4	Neutral	29.50"	30.30"	82.75

NOTE: The T2000-CB820 catch basin includes a sediment bucket, two end caps and two rebar installation devices.

MI-FLEX-400, 600	T2000-PBDS	T2000-PEO	T2000-PBO4, T2000-PBO6	T2000-REB	T2000-SIDE-ADAPT	T2000-SO6
T2060-PEC	MI-4ADAPT	T2000-PEC	T2000-PEC-BLK	T2000-PMCC	T2000-PFMC	T2000-CI

MODEL #	DESCRIPTION	MATERIAL
MI-FLEX-400	4" Flexible rubber coupling to connect 4" No Hub vertical and horizontal channel outlets to drainage pipe	Rubber
MI-FLEX-600	6" Flexible rubber coupling to connect 6" No Hub vertical and horizontal channel outlets to drainage pipe	Rubber
T2000-PBDS	Bottom Outlet Strainer	Stainless Steel
T2000-PEO	4" and 6" socket connection combination male end cap / end outlet, with connector	Plastic
T2000-PEC	End cap for female end channels	Plastic
T2000-PEC-BLK	End cap for female end channels with ductile iron rails - black color	Plastic
T2000-PBO4	4" Socket connection bottom outlet	Plastic
T2000-PBO6	6" Socket connection bottom outlet	Plastic
T2000-REB	Replacement Installation Device. <b>Two provided at no charge with every T2000 meter long channel</b>	Plastic
T2000-SIDE-ADAPT	Side Outlet Adapter for T2000N, T2010N and T2020N channels	Plastic
T2000-SO6	Combination 4" or 6" Side Outlet Connector (T2000-SIDE-ADAPT & T2000-PEO for T2000N, T2010N and T2020N channels.)	Plastic
T2060-PEC	Closed End Cap for T2060N channels	Plastic
MI-4ADAPT	4" PVC x 4" N.P.T. adapter coupling to install around bottom outlet to connect to MIFAB® A1 body for waterproofing applications. (See page 42 for application)	Plastic
T2000-CI	Channel insert to fill expansion gap between channels (if required)	Plastic
T2000-PMCC	Male to male channel connector for 1 meter long T2000 channels	Plastic
T2000-PFMC	Female to male channel connector for 1 meter long T2000 channels <b>One provided at no charge with every T2000 meter long channel. (with four self tapping screws)</b>	Plastic
T200-PBRD	Replacement 48" long plywood pour board to protect the channel during installation <b>One included at no charge with every T2000 meter long channel</b>	Plywood

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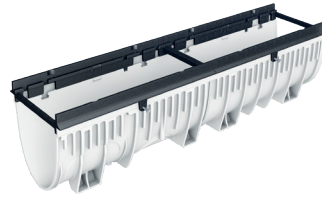
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SCAN FOR SPEC. SHEETS

**T2000-PB-13, T2000-PB-3 Channels**  
(with galvanized and stainless steel integral edge rails)

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

**T2000-PB-4 Channel**  
(with ductile iron frame)

GALVANIZED STEEL INTEGRAL EDGE RAILS (for up to and including Load Class E grates)	NO EDGE RAILS (for up to and including Load Class C grates)	STAINLESS STEEL INTEGRAL EDGE RAILS (for up to and including Load Class E grates)	DUCTILE IRON FRAME (for Load Class F grates)	BODY TYPE	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE GPM	WEIGHT (LESS GRATE) Lbs.
					E1 Min.	E2 Max.	E1 Min.	E2 Max.		
Channel Model #	Channel Model #	Channel Model #	Channel Model #	Sloped - .5% Neutral - 0%						
T2000N-PB-13	T2000N-PB	T2000N-PB-3	T2000N-PB-4	Neutral	8.74"	8.74"	9.53"	9.53"	525	13.23
T2000N-PB-13-500 (half meter long channel)	T2000N-PB-500	T2000N-PB-3-500	T2000N-PB-4-500	Neutral	8.74"	8.74"	9.53"	9.53"	525	7.39
T2000N-PB-13-500-DC (half meter long channel, direction change)	T2000N-PB-500-DC	T2000N-PB-3-500-DC	T2000N-PB-4-500-DC	Neutral	8.74"	8.74"	9.53"	9.53"	525	7.39
T2001-PB-13	T2001-PB	T2001-PB-3	T2001-PB-4	Sloped	8.74"	8.93"	9.53"	9.73"	580	13.36
T2002-PB-13	T2002-PB	T2002-PB-3	T2002-PB-4	Sloped	8.93"	9.13"	9.73"	9.93"	605	13.52
T2003-PB-13	T2003-PB	T2003-PB-3	T2003-PB-4	Sloped	9.13"	9.33"	9.93"	10.12"	632	13.69
T2004-PB-13	T2004-PB	T2004-PB-3	T2004-PB-4	Sloped	9.33"	9.53"	10.12"	10.32"	650	13.86
T2005-PB-13	T2005-PB	T2005-PB-3	T2005-PB-4	Sloped	9.53"	9.72"	10.32"	10.52"	686	14.03
T2006-PB-13	T2006-PB	T2006-PB-3	T2006-PB-4	Sloped	9.72"	9.92"	10.52"	10.71"	715	14.19
T2007-PB-13	T2007-PB	T2007-PB-3	T2007-PB-4	Sloped	9.92"	10.12"	10.71"	10.91"	759	14.36
T2008-PB-13	T2008-PB	T2008-PB-3	T2008-PB-4	Sloped	10.12"	10.31"	10.91"	11.11"	789	14.53
T2009-PB-13	T2009-PB	T2009-PB-3	T2009-PB-4	Sloped	10.31"	10.51"	11.11"	11.30"	819	14.70
T2010-PB-13	T2010-PB	T2010-PB-3	T2010-PB-4	Sloped	10.51"	10.71"	11.30"	11.50"	850	14.86
T2010N-PB-13	T2010N-PB	T2010N-PB-3	T2010N-PB-4	Neutral	10.71"	10.71"	11.50"	11.50"	850	15.65
T2010N-PB-13-500 (half meter long channel)	T2010N-PB-500	T2010N-PB-3-500	T2010N-PB-4-500	Neutral	10.71"	10.71"	11.50"	11.50"	850	7.83
T2010N-PB-13-500-DC (half meter long channel, direction change)	T2010N-PB-500-DC	T2000N-PB-3-500-DC	T2010N-PB-4-500-DC	Neutral	10.71"	10.71"	11.50"	11.50"	850	7.83
T2011-PB-13	T2011-PB	T2011-PB-3	T2011-PB-4	Sloped	10.71"	10.90"	11.50"	11.70"	881	15.03
T2012-PB-13	T2012-PB	T2012-PB-3	T2012-PB-4	Sloped	10.90"	11.10"	11.70"	11.89"	915	15.20
T2013-PB-13	T2013-PB	T2013-PB-3	T2013-PB-4	Sloped	11.10"	11.30"	11.89"	12.09"	948	15.37
T2014-PB-13	T2014-PB	T2014-PB-3	T2014-PB-4	Sloped	11.30"	11.49"	12.09"	12.29"	983	15.53
T2015-PB-13	T2015-PB	T2015-PB-3	T2015-PB-4	Sloped	11.49"	11.69"	12.29"	12.49"	1018	15.70
T2016-PB-13	T2016-PB	T2016-PB-3	T2016-PB-4	Sloped	11.69"	11.89"	12.49"	12.68"	1052	15.87
T2017-PB-13	T2017-PB	T2017-PB-3	T2017-PB-4	Sloped	11.89"	12.08"	12.68"	12.88"	1119	16.04
T2018-PB-13	T2018-PB	T2018-PB-3	T2018-PB-4	Sloped	12.08"	12.28"	12.88"	13.08"	1155	16.20
T2019-PB-13	T2019-PB	T2019-PB-3	T2019-PB-4	Sloped	12.28"	12.48"	13.08"	13.27"	1194	16.37
T2020-PB-13	T2020-PB	T2020-PB-3	T2020-PB-4	Sloped	12.48"	12.67"	13.27"	13.47"	1233	16.54
T2020N-PB-13	T2020N-PB	T2020N-PB-3	T2020N-PB-4	Neutral	12.67"	12.67"	13.47"	13.47"	1233	17.50
T2020N-PB-13-500 (half meter long channel)	T2020N-PB-500	T2020N-PB-3-500	T2020N-PB-4-500	Neutral	12.67"	12.67"	13.47"	13.47"	1233	8.75
T2020N-PB-13-500-DC (half meter long channel, direction change)	T2020N-PB-500-DC	T2000N-PB-3-500-DC	T2020N-PB-4-500-DC	Neutral	12.67"	12.67"	13.47"	13.47"	1233	8.75

AVAILABLE MARCH, 2025

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

Grate Part #	Description		Length (MM)	Weight	Grate Free Area (Sq. in. /ft.)	
T200-PGA-13-GM	Class A Galvanized Mesh Grate, 1 meter		39.37" (1000)	13.13	78.78	
T200-PGA-13-GM-500	Class A Galvanized Mesh Grate, 1/2 meter		19.69" (500)	6.82	78.78	
T200-PGA-3-SM	Class A Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	13.13	78.78	
T200-PGA-3-SM-500	Class A Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	6.82	78.78	

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

T200-PGB-13-LS	Class B Galvanized Longitudinal Grate, 1 meter		39.37" (1000)	16.02	51.25	
T200-PGB-13-LS-500	Class B Galvanized Longitudinal Grate, 1/2 meter		19.69" (500)	8.38	51.25	
T200-PGB-3-WW	Class B Stainless Longitudinal, anti slip WW grate, 1 meter		39.37" (1000)	16.32	48.78	
T200-PGB-3-WW-500	Class B Stainless Longitudinal, anti slip WW grate, 1/2 meter		19.69" (500)	8.31	48.78	

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

T200-PGC-13-GM	Class C Galvanized Mesh Grate, 1 meter		39.37" (1000)	24.33	70.46	
T200-PGC-13-GM-500	Class C Galvanized Mesh Grate, 1/2 meter		19.69" (500)	11.66	70.46	
T200-PGC-3-SM	Class C Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	24.33	70.46	
T200-PGC-3-SM-500	Class C Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	11.66	70.46	
T200-PGC-13-SD	Class C Galvanized Paverslot Grate, 1 meter		39.37" (1000)	47.08	12.01	
T200-PGC-13-SD-500	Class C Galvanized Paverslot Grate, 1/2 meter		19.69" (500)	23.54	12.01	
T200-PGC-13-MU-500	Class C Galvanized Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	43.78	6.01	
T200-PGC-3-SD	Class C Stainless Steel Paverslot Grate, 1 meter		39.37" (1000)	47.08	12.01	
T200-PGC-3-SD-500	Class C Stainless Steel Paverslot Grate, 1/2 meter		19.69" (500)	23.54	12.01	
T200-PGC-3-MU-500	Class C Stainless Steel Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	43.78	6.01	
T200-PGC-4	Class C Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	13.79	50.68	
T200-PGC-4-HP	Class C Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	13.79	10.94	
T200-PGC-4-WVY	Class C Ductile Iron WAVE Grate, 1/2 meter		19.69" (500)	13.86	47.73	
T200-PGC-4-BG	Class C Ductile Iron Bavaria Grate, 1/2 meter		19.69" (500)	13.64	28.19	

**LOAD CLASS D GRATES - EN 1433 - 89,920 LBS., 400kN, 1856 P.S.I.**

T200-SCD-4-PX	Class D Ductile Iron Solid Cover, 1/2 meter		19.69" (500)	26.00	-	
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**LOAD CLASS E GRATES - EN 1433 - 134,800 LBS., 600kN, 2,785 P.S.I.**

T200-PGE-4	Class E Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	19.25	51.20	
T200-PGE-4-13	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	19.25	51.20	
T200-PGE-4-HP	Class E Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	13.79	14.17	
T200-PGE-4-ADA	Class E Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	21.25	26.72	
T200-PGE-4-ADA-13	Class E Galvanized Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	21.25	26.72	
T200-PGE-3-SBG	Class E Stainless Steel Bar Grate, 1 meter		39.37" (1000)	75.00	50.46	
T200-PGE-3-SBG-500	Class E Stainless Steel Bar Grate, 1/2 meter		19.69" (500)	40.00	50.46	

**LOAD CLASS F GRATES - EN 1433 - 202,320 lbs., 900 Kn, 4,177 P.S.I.**

T200-PGF-4-PX	Class F Ductile Iron Slotted Grate, 1/2 meter	<b>NOTE:</b> ONLY AVAILABLE WITH DUCTILE IRON FRAME CHANNELS.	19.69" (500)	22.00	48.30		
T200-PGF-4-PX-13	Class F Galvanized Ductile Iron Slotted Grate, 1/2 meter		Avail. March, 2025	19.69" (500)	22.00	48.30	
T200-PGF-4-B	Class F Ductile Iron 4 bolt slotted grate, 1/2 meter		19.69" (500)	22.00	48.30		
T200-PGF-4-B-13	Class F Galvanized Ductile Iron 4 bolt slotted grate, 1/2 meter		19.69" (500)	22.00	48.30		
T200-PGF-4-ADA-PX	Class F Ductile Iron Longitudinal Grate, 1/2 meter			19.69" (500)	24.00	32.33	
T200-PGF-4-ADA-PX-13	Class F Galvanized Ductile Iron Longitudinal Grate, 1/2 meter			19.69" (500)	24.00	32.33	

See page 12 for explanation of ADA compliant grates

See page 12 for explanation of Heelproof compliant grates

Black acid resistant epoxy coated ductile iron grates (-11B) are available. Same price as the -13 grates.

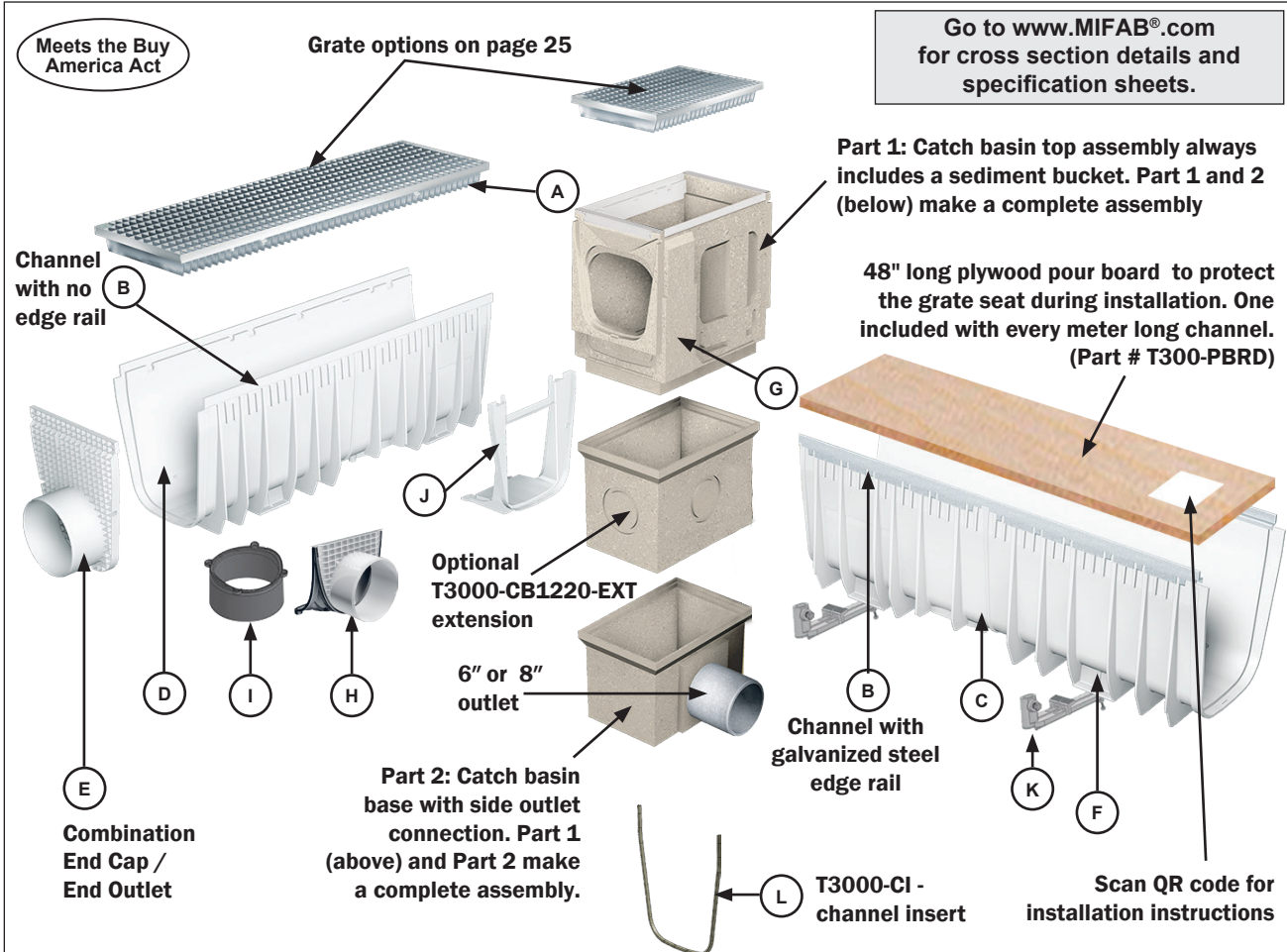
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T3000 SYSTEM COMPONENTS AND FEATURE



- A. Innovative CLIPFIX grate locking mechanism for plastic, ductile iron (up to and including Load Class E), galvanized and stainless steel grates.
- B. GRP channels with no edge rails and also with 4mm thick galvanized steel edge rails as per EN 1433.
- C. High strength drainage channel body enables Load Class A 15kN to Load Class E 600kN.
- D. Optimized flow cross section promotes self cleaning.
- E. Socket connection 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. Catch basin top assembly to connect to channel.
- H. Side outlet. (Side channel connector and combination outlet).
- I. 6" or 8" socket connection bottom outlet.
- J. Side channel connector.
- K. Rebar installation devices (plastic). Two included with every meter long channel.
- L. Channel insert to fill sealant groove between channels (if required).



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**  
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

Optional T3000-CB1220-EXT extension

Meets the Buy America Act

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

GALVANIZED STEEL INTEGRAL RAILS (for up to and including Load Class E grates) Catch Basin Model #	NO EDGE RAILS (for up to and including Load Class C grates) Catch Basin Model #	INVERT DEPTH	OVERALL DEPTH	WEIGHT (LESS GRATE) Lbs.
<b>T3000-CB1220-13-SO6</b>	<b>T3000-CB1220-SO6</b>	32.45"	32.60"	152.03
<b>T3000-CB1220-13-SO8</b>	<b>T3000-CB1220-SO8</b>	32.45"	32.60"	152.03
Optional extension piece to install between base & top assembly for deeper inverts.	<b>T3000-CB1220-EXT</b>	13.78"	14.70"	48.50
Replacement sediment bucket.	<b>T3000-CB1220-SB</b>			

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

<b>MI-FLEX-600, 800</b>	<b>T3000-PBDS</b>	<b>T3000-PEO8</b> End Cap / End Outlet, 8" socket connection	<b>T3000-PBO6</b> <b>T3000-PBO8</b> Socket Connection Bottom Outlet - 6" or 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	<b>T3000-CI</b> - channel insert	<b>T300-PBRD</b>

MODEL #	DESCRIPTION	MATERIAL
<b>MI-FLEX-600</b>	6" Flexible rubber coupling to connect 6" No Hub vertical channel outlet to drainage pipe	Rubber
<b>MI-FLEX-800</b>	8" Flexible rubber coupling to connect 8" No Hub vertical and horizontal channel outlets to drainage pipe	Rubber
<b>T3000-PBDS</b>	Bottom Outlet Strainer	Stainless Steel
<b>T3000-PEO8</b>	8" socket connection combination end cap / end outlet	Plastic
<b>T3000-PBO6</b>	6" socket connection bottom outlet	Plastic
<b>T3000-PBO8</b>	8" socket connection bottom outlet	Plastic
<b>T3000-REB</b>	Replacement Installation Device	Galvanized Steel
<b>T3000-SO8</b>	8" Side Outlet Connector	Plastic
<b>T3000-SIDE-ADAPT</b>	Side Channel adapter	Plastic
<b>T3000-CI</b>	Channel insert to fill expansion gap between channels (if required)	Plastic
<b>T300-PBRD</b>	Replacement 48" long plywood pour board to protect the channel during installation. One included with every meter long channel	Plywood

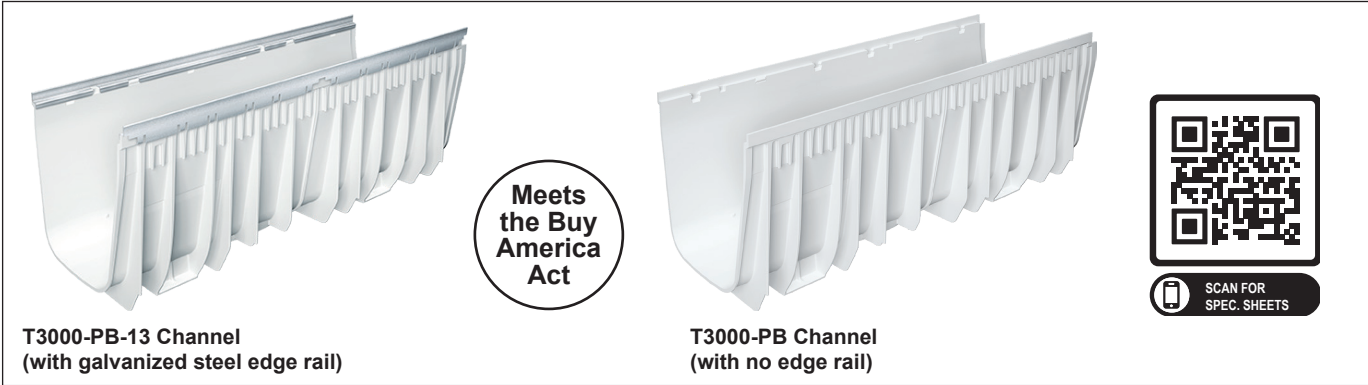
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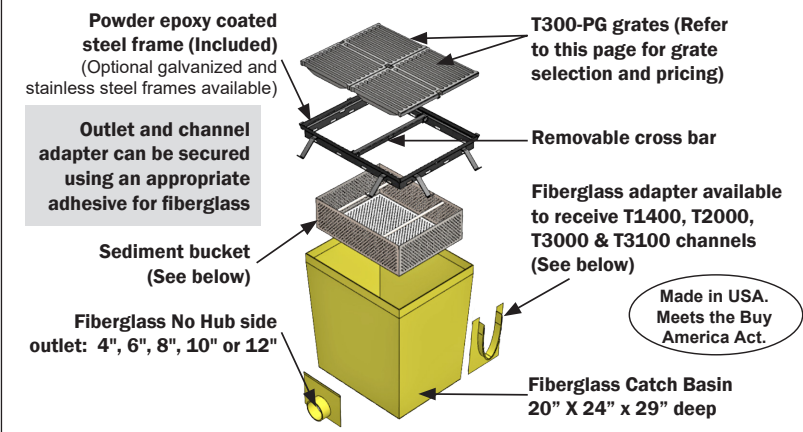
**T3000 GRP Channels**



GALVANIZED STEEL INTEGRAL RAILS (for up to and including Load Class E grates)	NO EDGE RAILS (for up to and including Load Class C grates)	BODY TYPE	INVERT BODY DEPTH	OVERALL BODY DEPTH	MAXIMUM FLOW RATE	WEIGHT (LESS GRATE)
Channel Model #	Channel Model #	Neutral - 0%			GPM	Lbs.
<b>T3000N-PB-13</b>	<b>T3000N-PB</b>	Neutral	14.17"	15.63"	3245	26.01
<b>T3000N-PB-500-13</b>	<b>T3000N-PB-500</b>	Neutral	14.17"	15.63"	3245	15.12
<b>T3000N-PB-500-DC-13</b>	<b>T3000N-PB-500-DC</b>	Neutral	14.17"	15.63"	3245	15.12

Type 304 Stainless Steel veneer frame for T3000N no edge channels, one meter long is available. Add \$210.00 List Price per meter to no edge channel price.

**T2000-CB2024 - 20" X 24" CATCH BASIN FOR T1400, T2000, T3000 & T3100 CHANNELS**



**Suggested adhesives for fiberglass**

**GORILLA Construction Adhesive:**  
Heavy Duty, 9 fluid ounces, Cartridge, White

**LOCTITE Construction Adhesive:**  
Power Grab, 10 fluid ounces, Cartridge, White

MODEL #
<b>T2000-CB2024</b> (includes powder epoxy coated steel frame. Grates not included)
<b>T2000-CB2024-13</b> (includes galvanized steel frame. Grates not included)
<b>T2000-CB2024-3</b> (includes stainless steel frame. Grates not included)

OUTLET CONNECTIONS
T2000-CB2024-PEO4 - 4"
T2000-CB2024-PEO6 - 6"
T2000-CB2024-PEO8 - 8"
T2000-CB2024-PEO10 - 10"
T2000-CB2024-PEO12 - 12"

CHANNEL ADAPTERS
T1400-CB2024-ADAPT
T2000-CB2024-ADAPT
T3000-CB2024-ADAPT
T3100-CB2024-ADAPT

OPTIONAL VARIATIONS
MODEL #
Powder epoxy coated steel sediment bucket (Part # T2000-CB2024-SB)
Stainless Steel Sediment Bucket (Part # T2000-CB2024-SB-3)

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

Grate Part #	Description		Length (MM)	Weight	Grate Free Area (Sq. in. /ft.)	
T300-PGC-13-GM	Class C Galvanized Mesh Grate, 1 meter		39.37" (1000)	68.53	109.78	
T300-PGC-13-GM-500	Class C Galvanized Mesh Grate, 1/2 meter		19.69" (500)	36.82	109.78	
T300-PGC-3-SM	Class C Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	68.53	109.78	
T300-PGC-3-SM-500	Class C Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	36.82	109.78	
T300-PGC-4	Class C Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	29.23	77.02	
T300-PGC-4-HP	Class C Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	29.23	21.59	
T300-PGC-4-WVY	Class C Ductile Iron WAVE Grate, 1/2 meter		19.69" (500)	34.10	84.63	

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

T300-PGE-4	Class E Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	42.02	77.02	
T300-PGE-4-13	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	42.02	77.02	
T300-PGE-4-HP	Class E Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	42.02	21.39	
T300-PGE-4-ADA	Class E Ductile Iron Longitudinal Slotted Grate, 1/2 meter		19.69" (500)	63.80	19.07	
T300-PGE-4-ADA-13	Class E Galvanized Ductile Iron Longitudinal Slotted Grate, 1/2 meter		19.69" (500)	63.80	19.07	
T300-SCE-4	Class E Ductile Iron Solid Cover, 1/2 meter		19.69" (500)	66.00	-	

See page 22 for explanation of ADA compliant grates

See page 22 for explanation of Heelproof compliant grates

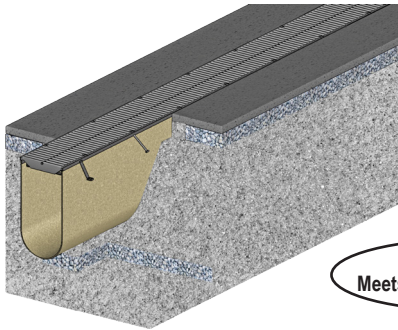
Black acid resistant epoxy coated ductile iron grates (-11B) are available. Same price as the -13 grates.

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Made in USA.  
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**Specification:** MIFAB® Series MIFAB® Series T3100, 12" internal width, fiberglass presloped (1%) trench drain system with optional grates (see page 27). Channels are available in one and two meter lengths. Powder, acid resistant epoxy coated steel frame is standard with all channels. Galvanized steel and stainless steel frames are also available. Bottom and end outlets are available in 6", 8" or 10" no hub outlet connections. Catch basin is available to suit all channel depths.

**FUNCTION:** The MIFAB® T3100 Series is ideal for projects that require longer sloping runs and increased discharge capacity within the trench drain system.

ACCESSORIES

-3	Stainless steel frame
-13	Galvanized steel frame
-PBO	6", 8", 10" or 12" No Hub bottom outlet (T3100-PBO6, T3100-PBO8, T3100-PB10 and T3100-PB12)
-PEC	Closed End Cap for male end channels (T3100-PEC)
-PECF	End Cap for female end channels (T3100-PECF)
-PEIF	6", 8" or 10" No Hub end Inlet for female end channels (T3100-PEIF6, 8 or 10)
-PEO	6", 8", 10" or 12" No Hub End Outlet (T3100-PEO6, T3100-PEO8, T3100-PEO10 and T3100-PEO12)
Catch Basin	<b>See page 24 for the T2000-CB2024 catch basin description, accessories and List Prices.</b>
	Powder epoxy coated steel sediment bucket (Part # T2000-CB2024-SB)
	Stainless Steel Sediment Bucket (Part # T2000-CB2024-SB-3)
	Stainless steel frame for catch basin Galvanized steel frame for catch basin

CHANNEL#	LENGTH	SHALLOW INVERT	DEEP INVERT
T3100N	78.74" (2m)	8"	8"
T3100N-1M	39.37" (1m)	8"	8"
T3101	78.74" (2m)	8"	8.85"
T3102	78.74" (2m)	8.85"	9.70"
T3103	78.74" (2m)	9.70"	10.55"
T3104	78.74" (2m)	10.55"	11.40"
T3105	78.74" (2m)	11.40"	12.25"
T3105N	78.74" (2m)	12.25"	12.25"
T3105N-1M	39.37" (1m)	12.25"	12.25"
T3106	78.74" (2m)	12.25"	13.10"
T3107	78.74" (2m)	13.10"	13.95"
T3108	78.74" (2m)	13.95"	14.80"
T3109	78.74" (2m)	14.80"	15.65"
T3110	78.74" (2m)	15.65"	16.50"
T3110N	78.74" (2m)	16.50"	16.50"
T3110N-1M	39.37" (1m)	16.50"	16.50"
T3111	78.74" (2m)	16.50"	17.35"
T3112	78.74" (2m)	17.35"	18.20"
T3113	78.74" (2m)	18.20"	19.05"
T3114	78.74" (2m)	19.05"	19.90"
T3115	78.74" (2m)	19.90"	20.75"
T3115N	78.74" (2m)	20.75"	20.75"
T3115N-1M	39.37" (1m)	20.75"	20.75"
T3116	78.74" (2m)	20.75"	21.60"
T3117	78.74" (2m)	21.60"	22.45"
T3118	78.74" (2m)	22.45"	23.30"
T3119	78.74" (2m)	23.30"	24.15"
T3120	78.74" (2m)	24.15"	25"
T3120N	78.74" (2m)	25"	25"
T3120N-1M	39.37" (1m)	25"	25"
T3121	78.74" (2m)	25"	25.85"
T3122	78.74" (2m)	25.85"	26.70"
T3123	78.74" (2m)	26.70"	27.55"
T3124	78.74" (2m)	27.55"	28.40"
T3125	78.74" (2m)	28.40"	29.25"
T3125N	78.74" (2m)	29.25"	29.25"
T3125N-1M	39.37" (1m)	29.25"	29.25"
T3126	78.74" (2m)	29.25"	30.10"
T3127	78.74" (2m)	30.10"	30.95"
T3128	78.74" (2m)	30.95"	31.80"
T3129	78.74" (2m)	31.80"	32.65"
T3130	78.74" (2m)	32.65"	33.50"
T3130N	78.74" (2m)	33.50"	33.50"
T3130N-1M	39.37" (1m)	33.50"	33.50"

NOTE: Flow rate information per channel section is available on the www.MIFAB®.com website

NOTE: Custom lengths, widths, depths, slopes & profiles available upon request. 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.



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

Grate Part #	Description		Length (MM)	Weight	Grate Free Area (Sq. in. /ft.)	
T300-PGC-13-GM	Class C Galvanized Mesh Grate, 1 meter		39.37" (1000)	68.53	109.78	
T300-PGC-13-GM-500	Class C Galvanized Mesh Grate, 1/2 meter		19.69" (500)	36.82	109.78	
T300-PGC-3-SM	Class C Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	68.53	109.78	
T300-PGC-3-SM-500	Class C Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	36.82	109.78	
T300-PGC-4	Class C Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	29.23	77.02	
T300-PGC-4-HP	Class C Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	29.23	21.59	
T300-PGC-4-WVY	Class C Ductile Iron WAVE Grate, 1/2 meter		19.69" (500)	34.10	84.63	

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

T300-PGE-4	Class E Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	42.02	77.02	
T300-PGE-4-13	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	42.02	77.02	
T300-PGE-4-HP	Class E Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	42.02	21.39	
T300-PGE-4-ADA	Class E Ductile Iron Longitudinal Slotted Grate, 1/2 meter		19.69" (500)	63.80	19.07	
T300-PGE-4-ADA-13	Class E Galvanized Ductile Iron Longitudinal Slotted Grate, 1/2 meter		19.69" (500)	63.80	19.07	
T300-PGE-3-SBG	Class E Stainless Steel Bar Grate, 1 meter		39.37" (1000)	100.00	73.63	
T300-PGE-3-SBG-500	Class E Stainless Steel Bar Grate, 1/2 meter Grate, 1/2 meter		19.69" (500)	60.00	73.63	
T300-SCE-4	Class E Ductile Iron Solid Cover, 1/2 meter	 	19.69" (500)	66.00	-	

**LOAD CLASS F GRATES - EN 1433 - 202,320 lbs., 900 Kn, 4,177 P.S.I.**

T300-PGF-4-B	Class F Ductile Iron Slotted 4 Bolt Grate, 1/2 meter		19.69" (500)	48.23	72.41	
T300-PGF-4-B-13	Class F Galvanized Ductile Iron Slotted 4 Bolt Grate, 1/2 meter		19.69" (500)	48.23	72.41	

**Note: These 4 bolt grates are only to be used with the T3100 and T3200 systems - pages 26 and 28.**

- See page 22 for explanation of ADA compliant grates
- See page 22 for explanation of Heelproof compliant grates

**Black acid resistant epoxy coated ductile iron grates (-11B) are available. Same price as the -13 grates.**

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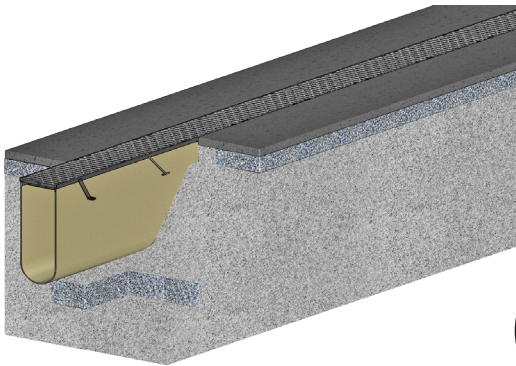
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Due to the complexity of some projects, a standard off the shelf system may not meet the project needs. MIFAB® has developed an 8" (T2200) and 12" (T3200) internal width fiberglass (FRP) trench system. Depending on the application, MIFAB® is able to build these channel systems utilizing many different resins to meet site-specific requirements. MIFAB®'s sales and engineering team will work with you to design and develop a system to meet your project needs.

The considerations are typically around long continuous sloping trench drain runs. These systems are able to accommodate changes of direction; primarily 45 and 90 degree bends and tees or whatever the project demands. We are able to produce the 8" system in depths of up to 48" and the 12" system in depths of up to 60".

Accompanying the trench system, the frames are made from either powder epoxy coated steel, galvanized steel and / or stainless steel; depending on the project requirements. All accessories are available including inlet caps, end caps, end outlets, bottom outlets and catch basins. Grates are available in load classes from A to F and are manufactured using ductile iron, galvanized steel, stainless steel and / or fiberglass.

**T2200 - 8" INTERNAL WIDTH, PRESLOPED, FIBERGLASS HIGH CAPACITY TRENCH DRAIN SYSTEM**



Made in USA.  
Meets the Buy  
America Act.

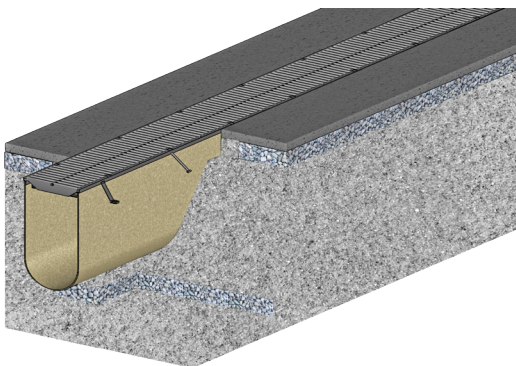
**Specification:** MIFAB® Series T2200 - 8" internal width trench drain manufactured from fiberglass channels, fabricated metal frames (specify powder coated steel, galvanized steel or stainless steel) and grates (specify ductile iron, galvanized steel, stainless steel or fiberglass in required Load Class and profile). Channels and frames are available in up to 20' long sections and channel depths range from 8" to 48". Field assembly of frames to top of channels is required by others. No hub end outlets are available up to 8". T2000-CB2024 catch basins are also available (see page 24).

**Function:** Ideal for projects that have large amounts of water to contain or drain within a long, continuous sloped trench drain system. Channel depths of up to 48" provide high volume drainage capacity.

See Page 20 for T200 Series grates for the T2200 channels.

Note: -PX Load Class F grates are not available with the T2200

**T3200 - 12" INTERNAL WIDTH, PRESLOPED, FIBERGLASS HIGH CAPACITY TRENCH DRAIN SYSTEM**



Made in USA.  
Meets the Buy  
America Act.

**Specification:** MIFAB® Series T3200 - 12" internal width trench drain manufactured from fiberglass channels, fabricated metal frames (specify powder coated steel, galvanized steel or stainless steel) and grates (specify ductile iron, galvanized steel, stainless steel or fiberglass in required Load Class and profile).

Channels and frames are available in up to 20' long sections and channel depths range from 8" to 60". Field assembly of frames to top of channels is required by others. No hub end outlets are available up to 10". T2000-CB2024 catch basins are also available (see page 24).

**Function:** Ideal for projects that have large amounts of water to contain or drain within a long, continuous sloped trench drain system. Channel depths of up to 60" provide high volume drainage capacity.

**Pricing available for T2200 and T3200 systems once all information is supplied. Engineering drawings will be generated to confirm requirements and production will commence after signed off drawings are received.**

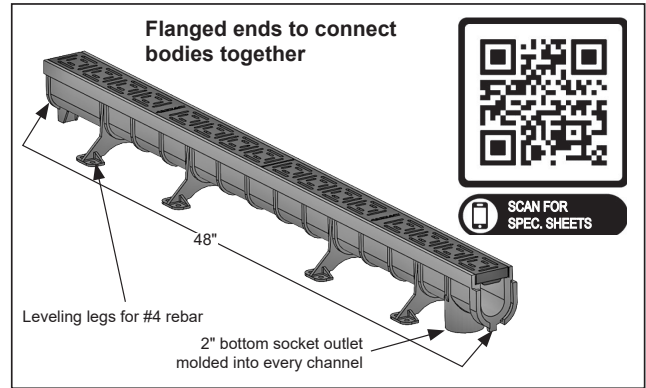
Note: See Page 27 for T300 Series grates for the T3200 channels.

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**SPECIFICATION:**

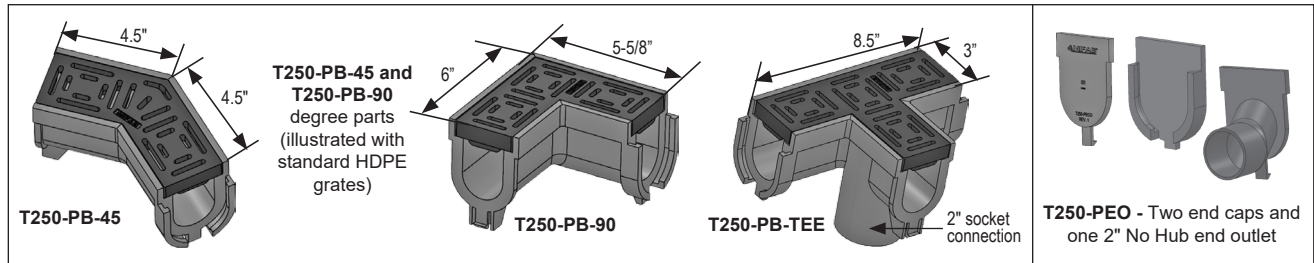
MIFAB® Series T250, 2" Internal width, 3" deep, 48" long, non sloped channel with two 24" long HDPE grates. Channel is manufactured from gray UV-10 stabilized High Density Polyethylene (H.D.P.E.). Each channel has leveling legs for #4 rebar tie down and leveling. Channels have interlocking ends to connect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

MODEL NUMBER	Description
T250-PB-BO	2" internal width, High Density Polyethylene (H.D.P.E.). channel with two 24" long HDPE grates and 2" bottom socket outlet.



Grates	
Part Number	Description
T250-PGA-3-DA	Stainless Steel, Decorative grate - Class A, 48" long
T250-PGA-3-WW	Stainless Steel, Wedgewire grate - Class A, 48" long
End Caps / Outlets / Accessories	
Part Number	Description
T250-PEO	Two end caps and one 2" No Hub end outlet (3 pieces in total)
MI-FLEX-200	2" Flexible rubber coupling to connect 2" No Hub end outlet to drainage pipe

45° and 90° Fabrications	
Part Number	Description
T250-PB-45-HPP	45° Channel Section with HDPE grate, Class A
T250-PB-90-HPP	90° Channel Section with HDPE grate, Class A
T250-PB-TEE-HPP	Tee Channel Section with HDPE grate, Class A
T250-PB-45-3-DA	45° Channel Section with Stainless Steel, Decorative grate, Class A
T250-PB-90-3-DA	90° Channel Section with Stainless Steel, Decorative grate, Class A
T250-PB-TEE-DA	Tee Channel Section with Stainless Steel, Decorative grate, Class A
T250-PB-45-3-WW	45° Channel Section with Stainless Steel, Wedgewire grate, Class A
T250-PB-90-3-WW	90° Channel Section with Stainless Steel, Wedgewire grate, Class A
T250-PB-TEE-WW	Tee Channel Section with Stainless Steel, Wedgewire grate, Class A



**GRATES FOR T250 TRENCH DRAIN SYSTEM**



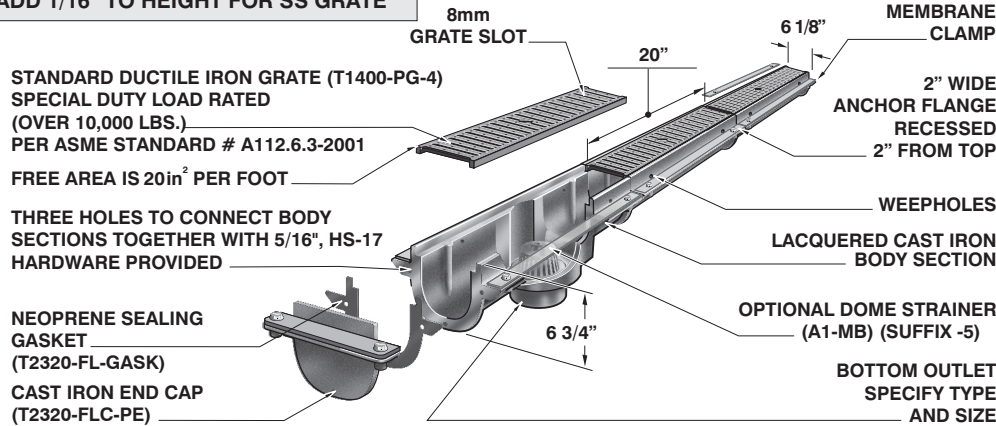
Grate Part Number	Suffix	Description	Material	Weight (lbs./ft.)	Length	Free Area (sq. in. per ft.)	Slot Width / Hole Size	ADA	Load Ratings			
									DIN	ANSI	H-20	FAA
T250-PGA-HPP	-HPP	Decorative	H.D.P.E.	0.70	24"	9.00	0.25"	Yes	A	Light Duty	No	No
T250-PGA-3-DA	-DA	Decorative	Stainless Steel	1.30	48"	11.00	0.25"	Yes	A	Light Duty	No	No
T250-PGA-3-WW	-WW	Wedgewire	Stainless Steel	1.25	48"	18.00	0.25"	Yes	A	Light Duty	No	No

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

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

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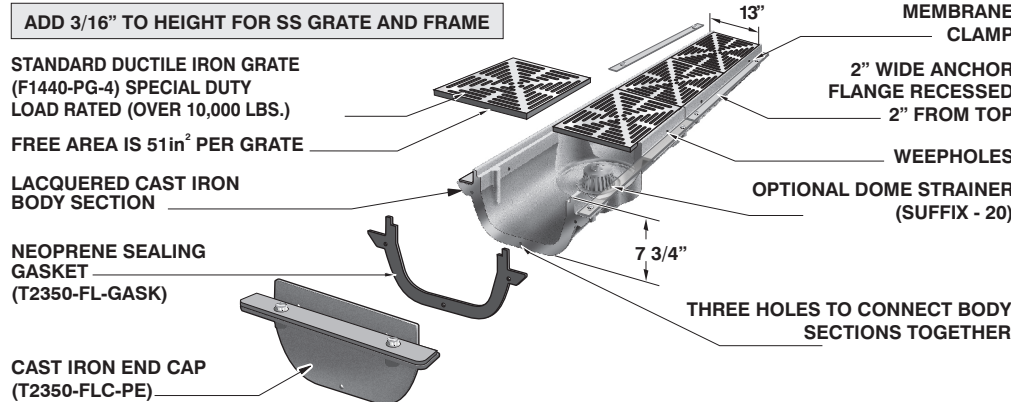
Visit [www.mifab.com](http://www.mifab.com) for the most recent product information. Design and dimensions are subject to modification. Prices do not include applicable taxes.

**T2320-FL - 6 1/8" X 20" CAST IRON TRENCH DRAIN WITH ANCHOR FLANGE**
**ADD 1/16" TO HEIGHT FOR SS GRATE**

**SCAN FOR SPEC. SHEETS**

Custom fabricated trench drains are our specialty. Any custom configuration is possible. Contact MIFAB®.

MODEL #	SIZE	MATERIAL	FRAME MATERIAL
<b>T2322,3,4-FL-4</b>	6 1/8" x 20" section	Cast iron body, DI grate	Cast iron
<b>T2322,3,4-FL-4-3</b>	6 1/8" x 20" section	Cast iron body, DI grate W/SS veneer	SS veneer

T2320-FL OPTIONAL VARIATIONS		Suffix	Description
-5	Sediment bucket (per piece) (A1-MB)	-12	Galvanized grate (per 20" section)
-6	Vandal proof grate (per grate)(TR30 Torx and pin) (H-1109A)	-13	All galvanized (per 20" section)
-8	Backwater valve (per piece) (BV1254)	-C	Membrane clamp (per 20" section)
-11	All acid resistant epoxy coated (per 20" section)	P	Push on bottom outlet (2", 3" or 4")
		S	End outlet (4" No hub only)
		T	Threaded bottom outlet (2", 3" or 4")
		X	Inside caulk bottom outlet (2" or 3")

**T2350-FL - 12 1/4" X 12" CAST IRON TRENCH DRAIN WITH ANCHOR FLANGE**
**ADD 3/16" TO HEIGHT FOR SS GRATE AND FRAME**

**SCAN FOR SPEC. SHEETS**

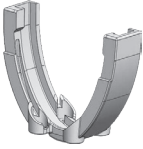



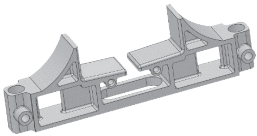


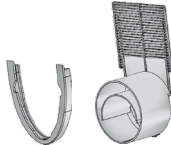
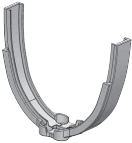


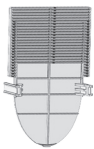
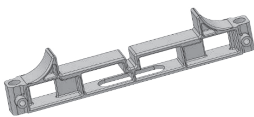
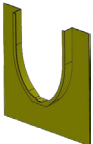

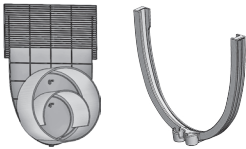
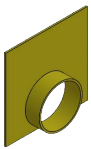





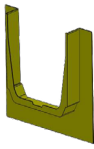

Custom fabricated trench drains are our specialty. Any custom configuration is possible. Contact MIFAB®.

MODEL #	SIZE	MATERIAL	FRAME MATERIAL
<b>T2352,3,4-FL-4</b>	12 1/4" x 12" section	Cast iron body, DI grate	Cast iron
<b>T2352,3,4-FL-4-3</b>	12 1/4" x 12" section	Cast iron body, DI grate W/SS veneer	SS veneer

T2350-FL OPTIONAL VARIATIONS		Suffix	Description
-5	Sediment bucket (per outlet section)	-95	Client logo (-3 SS veneer only)
-6	Vandal proof grate (per grate) (H-1072B) (lockdown grate to body)	-20	Dome bottom outlet strainer (per piece)
-8	Backwater valve (per piece)(BV1254)	-C	Membrane clamp (per foot)
-11	All acid resistant epoxy coated (per 12" section)	P	Push on bottom outlet (2", 3" or 4")
-12	Galvanized grate	S	End outlet (No Hub only, 4")
-13	All galvanized (per 12" section)	T	Threaded bottom outlet (2", 3" or 4")
		X	Inside caulk bottom outlet (2" or 3")

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 <p><b>T1400-PFMC</b> Female to male connector for T1400 channels (Supplied as standard with all T1400 channels)</p>	 <p><b>T1400-PMCC</b> Male to male connector for T1400 channels</p>	 <p><b>T1400-CB620-PEC</b> End cap for T1400-CB620 catch basin. Designed to work with any T1400 channel depth. Two supplied with each catch basin.</p>	 <p><b>T1400-PEC</b> End cap for T1400 female end channels</p>
 <p><b>T1400-CB620-REB</b> Installation device for the T1400-CB620 catch basin. Two supplied with each catch basin.</p>	 <p><b>T1400-CB2024-ADAPT</b> Adapter to receive T1400 channels into the 20" x 24" catch basin</p>	 <p><b>T1400-PBO3 / T1400-PBO4</b> 3" / 4" socket connection bottom outlet for T1400 channels</p>	 <p><b>T1400-PEO</b> 3" and 4" socket connection combination male end cap / end outlet, with connector for T1400 channels</p>
 <p><b>T2000-PFMC</b> Female to male connector for T2000 channels (Supplied as standard with all T1400 channels)</p>	 <p><b>T2000-PMCC</b> Male to male connector for T2000 channels</p>	 <p><b>T2000-CB820-PEC</b> End cap for T2000-CB820 catch basin. Designed to work with any T2000 channel depth. Two supplied with each catch basin.</p>	 <p><b>T2000-PEC</b> End cap for T2000 female end channels</p>
 <p><b>T2000-CB820-REB</b> Installation device for the T2000-CB820 catch basin. Two supplied with each catch basin.</p>	 <p><b>T2000-CB2024-ADAPT</b> Adapter to receive T2000 channels into the 20" x 24" catch basin</p>	 <p><b>T2000-PBO4 / T2000-PBO6</b> 4" / 6" socket connection bottom outlet for T2000 channels</p>	 <p><b>T2000-PEO</b> 4" and 6" socket connection combination male end cap / end outlet, with connector for T2000 channels</p>
 <p><b>T2000-CB2024-PEO</b> End outlet for the T2000-CB2024 catch basin. Available in 4", 6", 8", 10" or 12"</p>	 <p><b>T3000-PEO6, T3000-PEO8</b> No hub end outlet for T3000 channels. Available in 6" and 8"</p>	 <p><b>T3100-PEC</b> End cap for T3100 male end channels</p>	 <p><b>T3100-PECF</b> End cap for T3100 female end channels</p>
 <p><b>T3100-PEO6, 8, 10</b> 6", 8" or 10" No hub end outlet for T3100 channels</p>	 <p><b>T3100-PEIF6, 8 or 10</b> 6", 8" or 10" No Hub end Inlet for T3100 female end channels</p>	 <p><b>T3000-CB2024-ADAPT</b> Adapter to receive T3000 channels into the T3000-CB2024 catch basin</p>	 <p><b>T3100-CB-2024-ADAPT</b> Adapter to receive T3100 channels into the T3100-CB2024 catch basin</p>

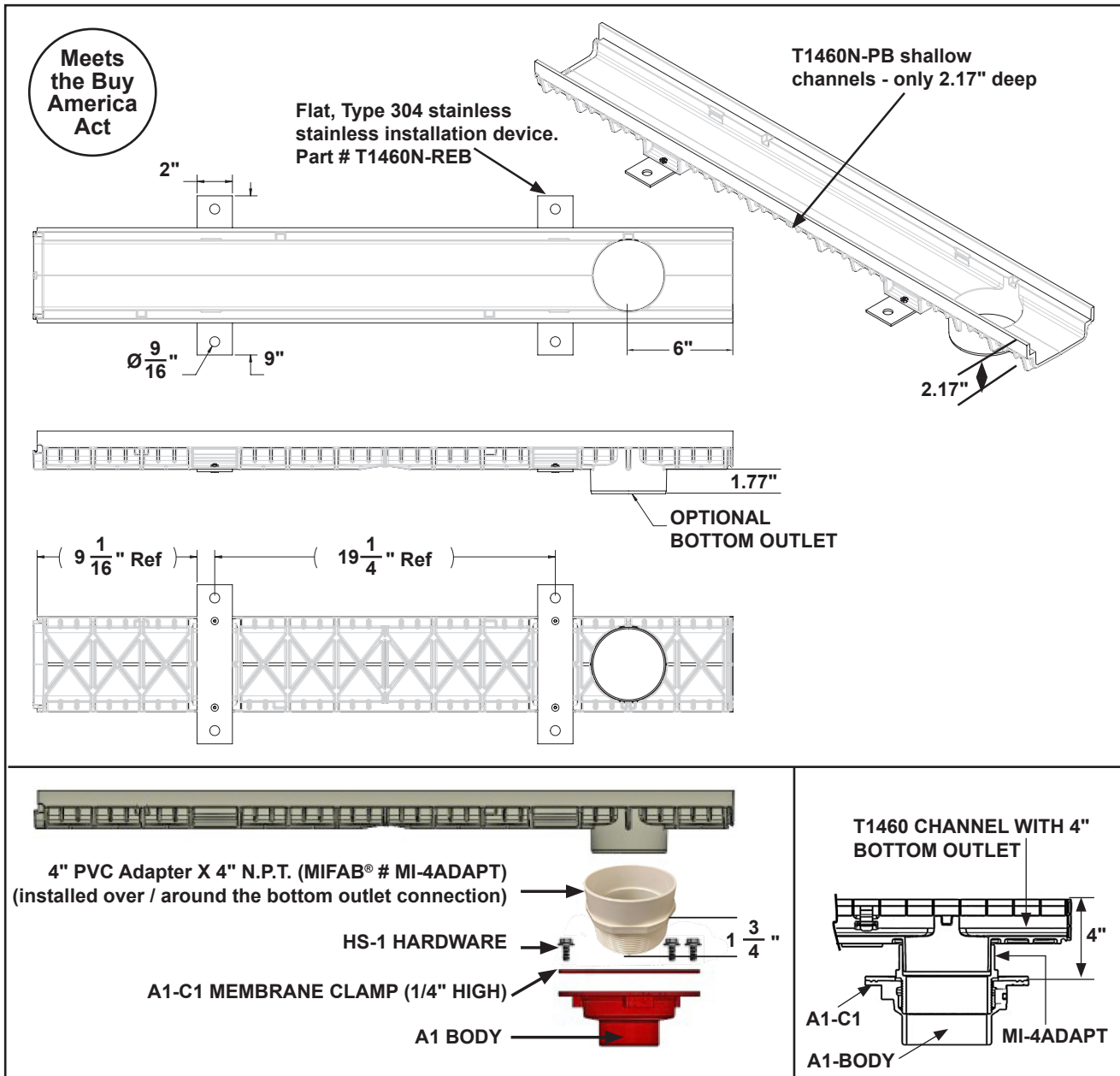
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**INSTALLATION DEVICE FOR SHALLOW T1460N AND T2060N CHANNELS**



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.

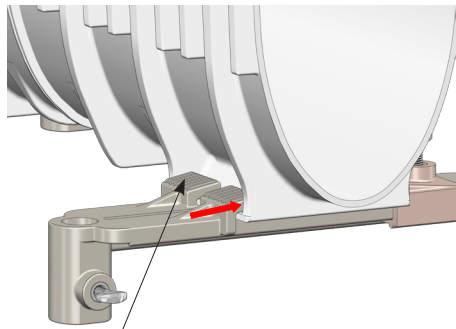
**List Price of T1460N-REB**  
 (two brackets included with mounting hardware)  
 (Fitting of installation devices to channels by others)

**List Price of T2060N-REB**  
 (two brackets included with mounting hardware)  
 (Fitting of installation devices to channels by others)

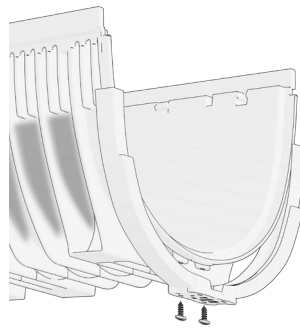
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GRP TRENCH INSTALLATION GUIDE

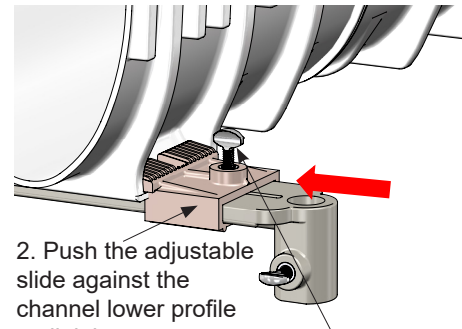
INSTALLATION GUIDE



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

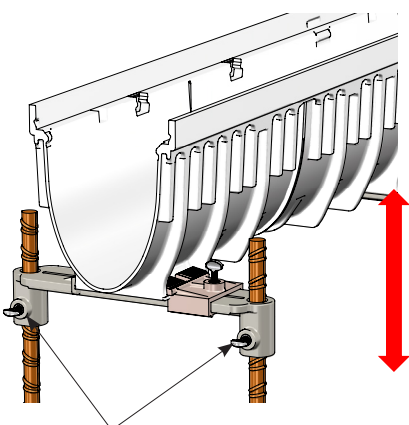


Ensure that the rebar installation devices and the female to male joint connector are placed on the channel before installation.



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

3. Secure the adjustable slide position by tightening the wing nut.

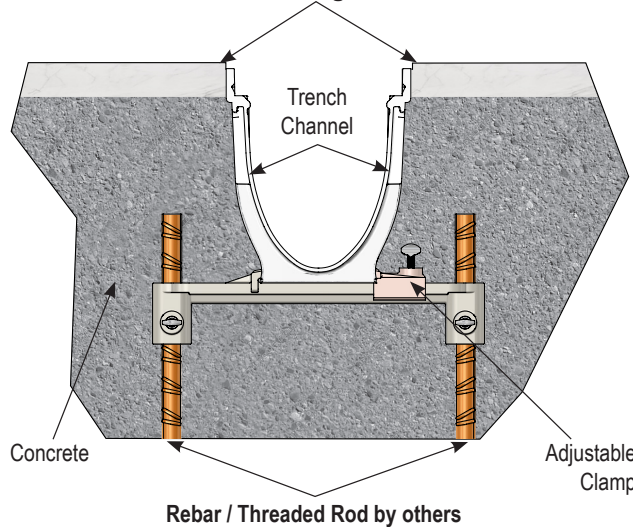


4. Adjust to desired height, secure the installation device by tightening the two wing nuts.



SCAN ME  
FOR  
INSTALLATION  
INSTRUCTIONS

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



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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**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 rated.

**RT** = room temperature (70° F)

**GRP** = Glass Fiber Reinforced Polyester

**NOTE:** As all projects are different, chemical exposure needs to consider temperature and dilution rates.

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## TRENCH DRAINS: FAQ'S COMMON QUESTIONS AND ANSWERS

- **What is the purpose of the “gap” between the two GRP channels?**

This is a design improvement that meets the new ASME A112.6.8-2022 Standard and is in accordance with EN1433. MIFAB®'s GRP (Glass Re-enforced Polyester) products incorporate this “gap” which is intended to allow a joint sealant material (one component polyurethane is preferred material) to be placed if required by the design engineer.

Most often, in storm water applications, this gap is ignored and “dirt” fills the gap in a short period of time. The channels are always encased in concrete so it becomes a non-factor. Utilize the MIFAB® website for further explanation.

- **Where should you use a GRP trench drain instead of another material?**

GRP trenches are considered suitable for most applications. GRP will handle Load Classes A-E with a Galvanized or Stainless Steel rails and Class F with a Ductile Iron frame.

Typical applications include but are not limited to: Fire & Police stations, Car Dealerships, Parking lots, landscape areas etc.

- **When installing a GRP Trench, which end do you start from?**

Always start at the outlet end with the deepest channel or preferably a catch basin. The male/female profile is at the end of the channel (the male end is the deep end and the female end is the shallow end).

- **Do GRP Trenches require the same depth and width of concrete encasement as other Trench drain materials?**

All trench drains require a minimum (actual depth to be determined by engineers designing the surrounding concrete slab) of 4” on both sides and under the trench drain. Solid soil compaction needs to be achieved before concrete pour.

- **What is the temperature limit of GRP trenches?**

GRP is unique in that other materials that have a 140F to 180F limit and GRP will handle 212F continuous flow and 392F intermittent flow.

- **If a system seems to not be going together, what reasons could be considered?**

1. The channels are not in numerical sequence or...
2. The arrows showing direction of the intended flow are pointing away from the outlet position. This will give the impression (result) that every piece is out of tolerance by 5/16”. Turn each channel around so the arrows point toward the outlet to correct this.

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- **Should you put the grates in the channels when pouring the concrete surround?**  
The 4" internal width MIFAB® T1400 system is supplied with pour boards. These should be installed staggered in length so that the board spans the joints. Cut the first pour board to a length of .5 meters, then install full meter boards which will create an overlap of the board over 2 channels and spanning the joint. Plywood can also be utilized.
- **How do I connect a 4" bottom outlet to a 4" drainage pipe?**  
First, cut the bottom of the channel in the marked location using a hole saw, 4" angle grinder or any other suitable tool. Connect the supplied MIFAB® bottom outlet adaptor (T1400-PB04) with screws provided. This outlet will accommodate SDR35 and Schedule 40 pipe.
- **Should you install Trench Drains on dirt or road base (gravel)?**  
No. You should always install trench drain channels in a three sided concrete surround with a minimum concrete depth of 4". The actual depth is to be determined by engineers designing the concrete slab.
- **When do you use Catch Basins instead of end or bottom outlets?**  
Catch basins are always preferred if the depth allows for them. This is typical if the run is in one direction OR there are two runs meeting at a low point in the middle. The catch basin is supplied with a sediment bucket internally. This is preferred as that bucket will capture large debris so it cannot enter the piping system and cause clogging.
- **When and why do you lock down grates?**  
MIFAB® trench drains utilize the CLIPFIX or PROFIX locking mechanism that is integral to the grates. This helps prevent theft. Also, by locking the grates, extreme (Dynamic) loads are less inclined to affect the grates position and applies less stress to the complete system. A locked grate promotes longevity.
- **Should stainless steel grates be installed with a trench drain that has a galvanized rail?**  
This is never recommended as there is a chemical reaction between galvanized steel and stainless steel. There are frequent occasions where a Ductile Iron grate is utilized with a Galvanized rail, and this is both typical and acceptable.
- **What is the difference between a full depth expansion joint and a control joint?**  
A control joint is the shallow depth groove frequently tooled into a finished slab to a depth of .5 inches (approx.). The objective is to create a "weak" spot and the hope is that any cracking will occur at that location. An expansion joint is a full depth (from top to bottom of pour) that is designed to absorb horizontal expansion and contraction of the surrounding concrete pour.
- **Do neutral (non-sloping) channels drain water?**  
Yes, non-sloping channels do drain water. The rate of drainage may be slightly slower, but typically this is not an issue.

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PROJECT REFERENCES



**TOWN CENTRES AND PEDESTRIAN AREAS**



**PARKING SPACES**



**GARDENING AND LANDSCAPING**



**PARKING GARAGES**



**OFFICE PLAZA**



**INDUSTRY AND COMMERCE**

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**ROADWAYS**



**FACTORIES**



**PROMENADE AREAS**



**LANDSCAPE AREAS**

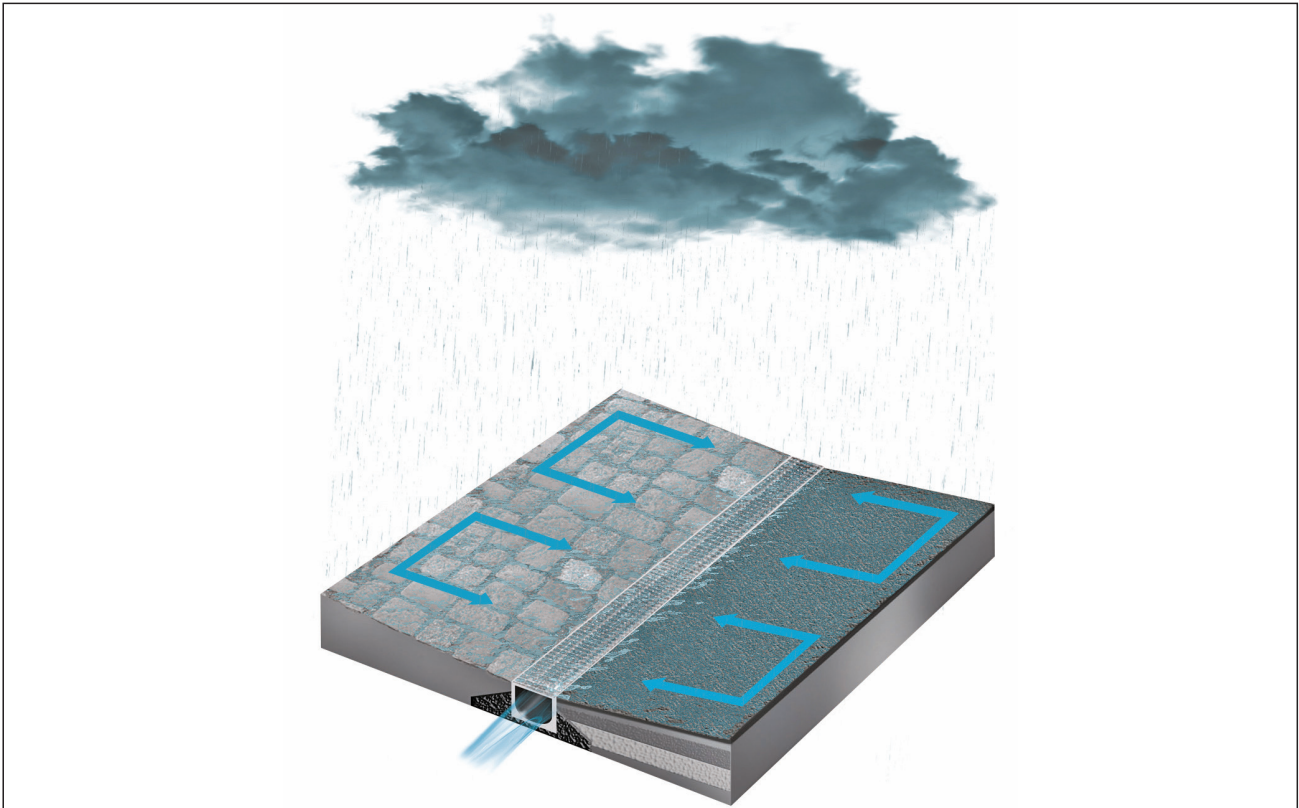
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## TYPICAL TRENCH DRAIN SIZING CONSIDERATIONS

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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**CROSS REFERENCE GUIDE**



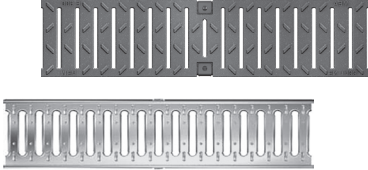




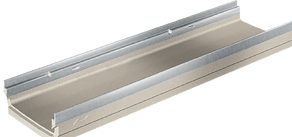



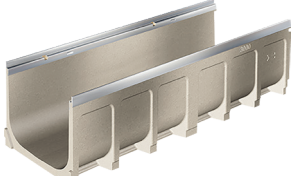
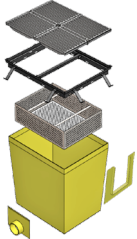
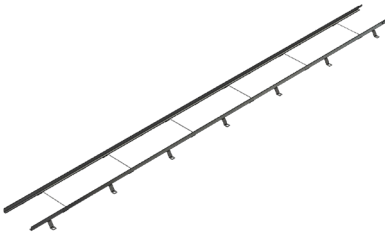
MIFAB®	ZURN	PAGE NO.
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T2000	ZF812	(pages 19 - 22)
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T5000-300	ZA880-300B	(page 37)
T5000-300	ZA880-340	(page 37)
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T1460	Z883	(page 13)
T300	Z884	(page 16 - 17)
T1400	Z886	(pages 12 - 15)
T1400-CB620	Z887 - 6" x 20"	(page 13)
T2000-CB820	Z887 - 12" x 24"	(page 19)
T2000-CB2024	Z887 - 24" x 24"	(page 24)
MIFAB®	JR Smith	PAGE NO.
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T1400	9930/ 9940	(pages 12 - 15)
T1400	9940	(pages 12 - 15)
T2000	9960	(pages 19 - 22)
T2000	9812	(pages 19 - 22)

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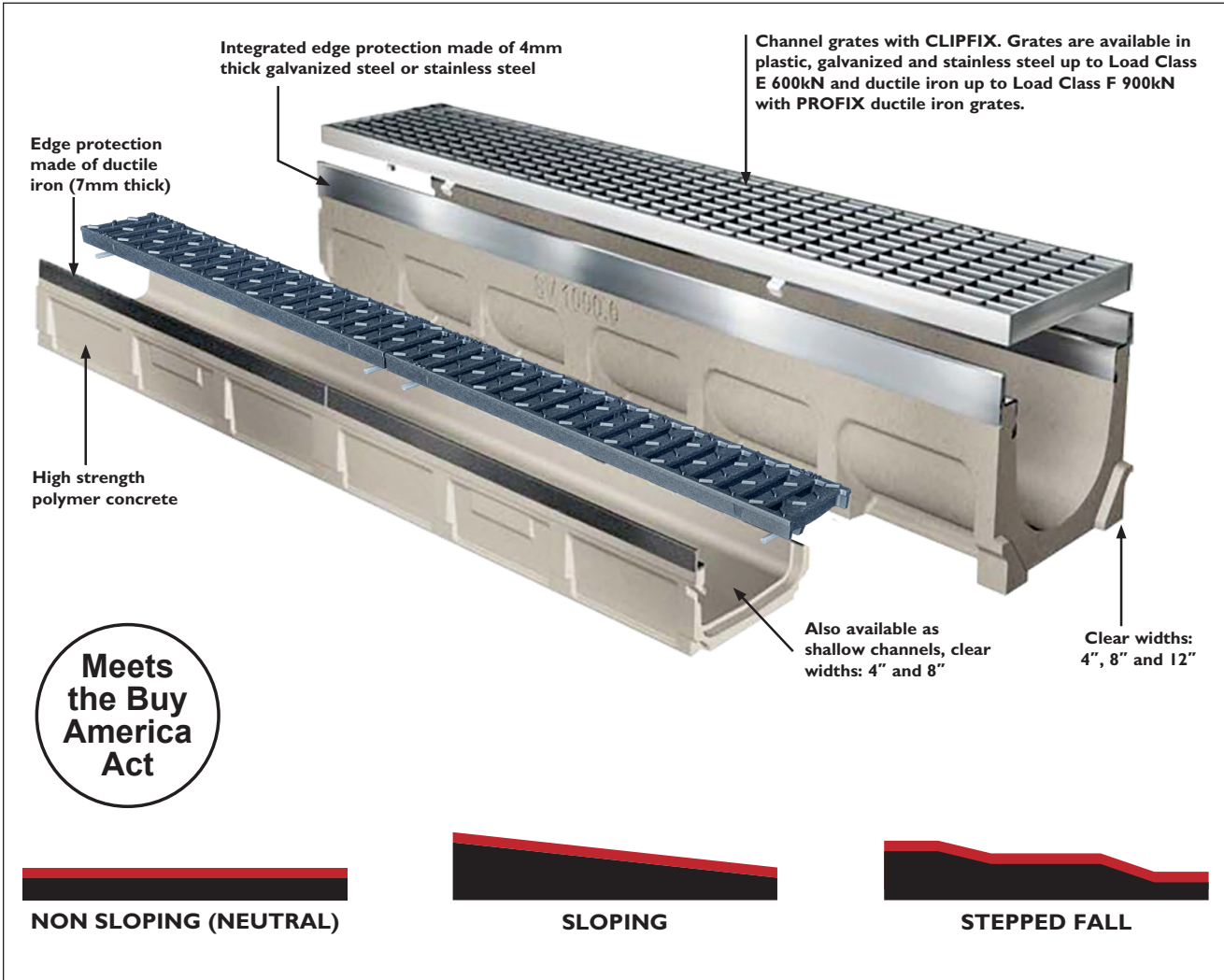
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POLYMER CONCRETE FOR MAXIMUM FLEXIBILITY



Meets the Buy America Act

NON SLOPING (NEUTRAL)

SLOPING

STEPPED FALL

The drainage channels made of polymer concrete are ideal for:

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

The polymer concrete drainage channels with 4mm edges made of galvanized steel, stainless steel and ductile iron (7mm edges) have been designed for maximum stability and easy installation.

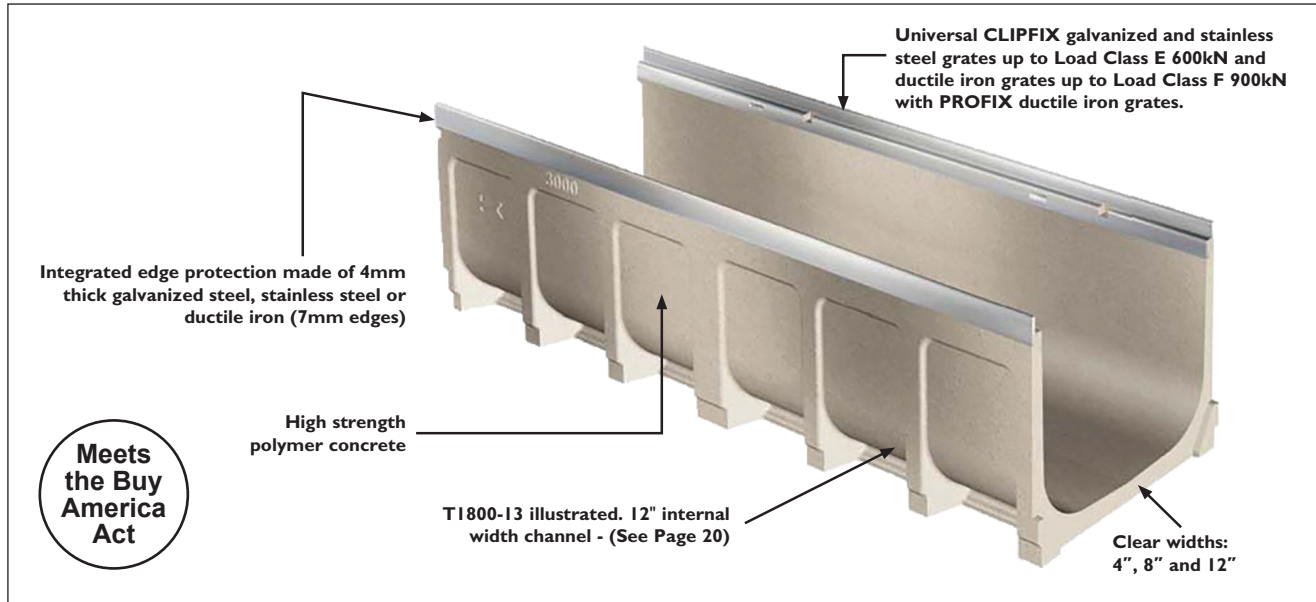
- ADA grates for handicapped accessible areas
- Heelproof grates for areas with high heels
- Ductile Iron slotted, longitudinal and decorative grates
- Perforated and mesh grates made of galvanized and stainless steel
- Slotted grates made of galvanized and stainless steel
- Longitudinal galvanized and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

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## POLYMER CONCRETE MATERIAL ADVANTAGES

Polymer concrete drainage channels offer the best price and performance for projects with grates up to Load Class F 900kN. The channels are available with edge rails made of galvanized steel, stainless steel and ductile iron. Available in 4", 8" and 12" internal widths; the channel offering is completed with a wide variety of grates and accessories.

- Drainage channel made of polymer concrete
- Load Class up to F 900kN
- Easy to install



### POLYMER CONCRETE

Polymer concrete has outstanding physical and chemical properties. These make it an extremely reliable and versatile material in even the toughest conditions.

Polymer concrete channels are composed of mineral aggregates and resin. Polymer concrete channels are resistant to most chemicals and acids.

A maximum working temperature of 180° F (82° C) is recommended. The minimum working temperature is -58° Fahrenheit (-50° C)

MATERIAL CHARACTERISTICS	
<b>Compressive strength</b>	14,000 p.s.i.
<b>Flexural tensile strength</b>	4,000 p.s.i.
<b>Water adsorption</b>	Below 0.05%
<b>Water ingress depth</b>	0 mm <sup>2</sup>
<b>Roughness Co-efficient (Manning's)</b>	n=0.011
<b>Freeze / Thaw</b>	300 cycles modulus of elasticity - 95.1%
<b>Surface Burning</b>	Flame spread; 0 smoke density; 5 E84
<b>Material structure</b>	Capillary-free – ideal for the rapid discharge of water and dirt particles
<b>Channel body weight</b>	Significantly lighter than conventional concrete channels
<b>Workability</b>	Suitable for grinding disks, masonry drills
<b>Ageing resistance</b>	Frost proof, wear-resilient, & maintenance-free. Highly resistant to chemicals (pH range 3 to 9)






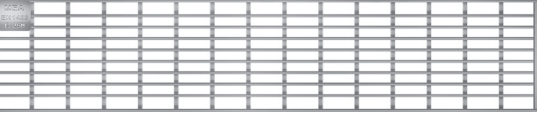









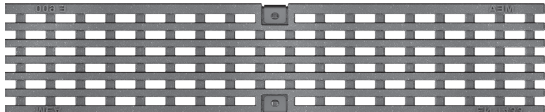


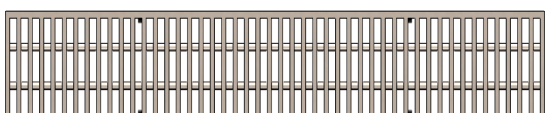
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CLIPFIX / PROFIX UNIVERSAL GRATES

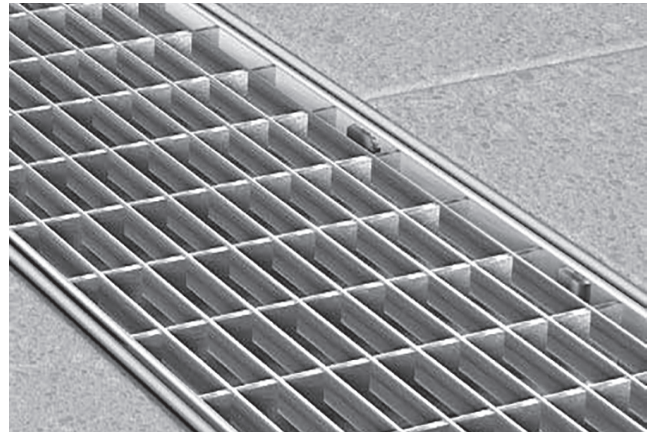
<p><b>GALV. &amp; S.S. - SLOTTED</b></p> <p>T1500, T1560</p>  <p>Load Class A, C, E</p>	<p><b>GALV. &amp; S.S. - PERFORATED</b></p>  <p>Load Class A, C</p> <p>T1500, T1560</p> 
<p><b>PLASTIC - LONGITUDINAL</b></p>  <p>Load Class A</p> <p>T1500, T1560</p> 	<p><b>GALV. &amp; S.S. - MESH</b></p>  <p>Load Class C</p> <p>T1500, T1560 T1700, T1760</p> 
<p><b>PLASTIC - SLOTTED</b></p>  <p>Load Class A, C</p> <p>T1500, T1560</p> 	<p><b>GALV. &amp; S.S. - LONGITUDINAL</b></p>  <p>Load Class B</p> <p>T1500, T1560 T1700, T1760</p> 
<p><b>DUCTILE IRON - SLOTTED</b></p>  <p>Load Class C, E, F</p> <p>T1500, T1560 T1700, T1760 T1800</p>	<p><b>DUCTILE IRON - WAVE</b></p>  <p>Load Class C</p> <p>T1500, T1560 T1700, T1760 T1800</p>
<p><b>DUCTILE IRON - HEELPROOF</b></p>  <p>Load Class C, E</p> <p>T1500, T1560 T1700, T1760 T1800</p> 	<p><b>DUCTILE IRON - LONGITUDINAL</b></p>  <p>Load Class E, F</p> <p>T1500, T1560 T1700, T1760 T1800</p> 
<p><b>DUCTILE IRON - BAVARIA</b></p>  <p>Load Class C</p> <p>T1500, T1560 T1700, T1760</p>	<p><b>STAINLESS STEEL - BAR</b></p>  <p>Load Class E</p> <p>T1500, T1700, T1800</p>

**MIFAB offers a wide range of grates for polymer concrete channels systems that are not just functional, but also aesthetically pleasing.**

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## CLIPFIX UNIVERSAL GRATE LOCKING DESIGN



Polymer concrete 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.

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

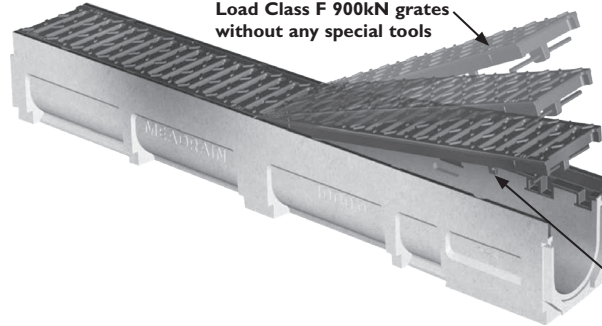


Longitudinal shift protection system to prevent grate movement under dynamic load.

Meets the Buy America Act

## PROFIX GRATE LOCKING DESIGN - FOR CLASS F GRATES

Easy locking / unlocking of the Load Class F 900kN grates without any special tools



Longitudinal shift protection system to prevent grate movement under dynamic load.

Meets the Buy America Act

## CHANNEL / GRATE SELECTION GUIDE

	CHANNEL INTEGRAL EDGE RAIL MATERIAL	GRATES				
		Stainless Steel	Galvanized Steel	Ductile Iron	Galvanized Ductile Iron	Plastic
<b>Polymer Concrete Systems</b>	Stainless Steel Integral Edge Polymer Channels	X		X		X
	Galvanized Steel Integral Edge Polymer Channels		X	X	X	X
	Ductile Iron Integral Edge Polymer Channels			X	X	

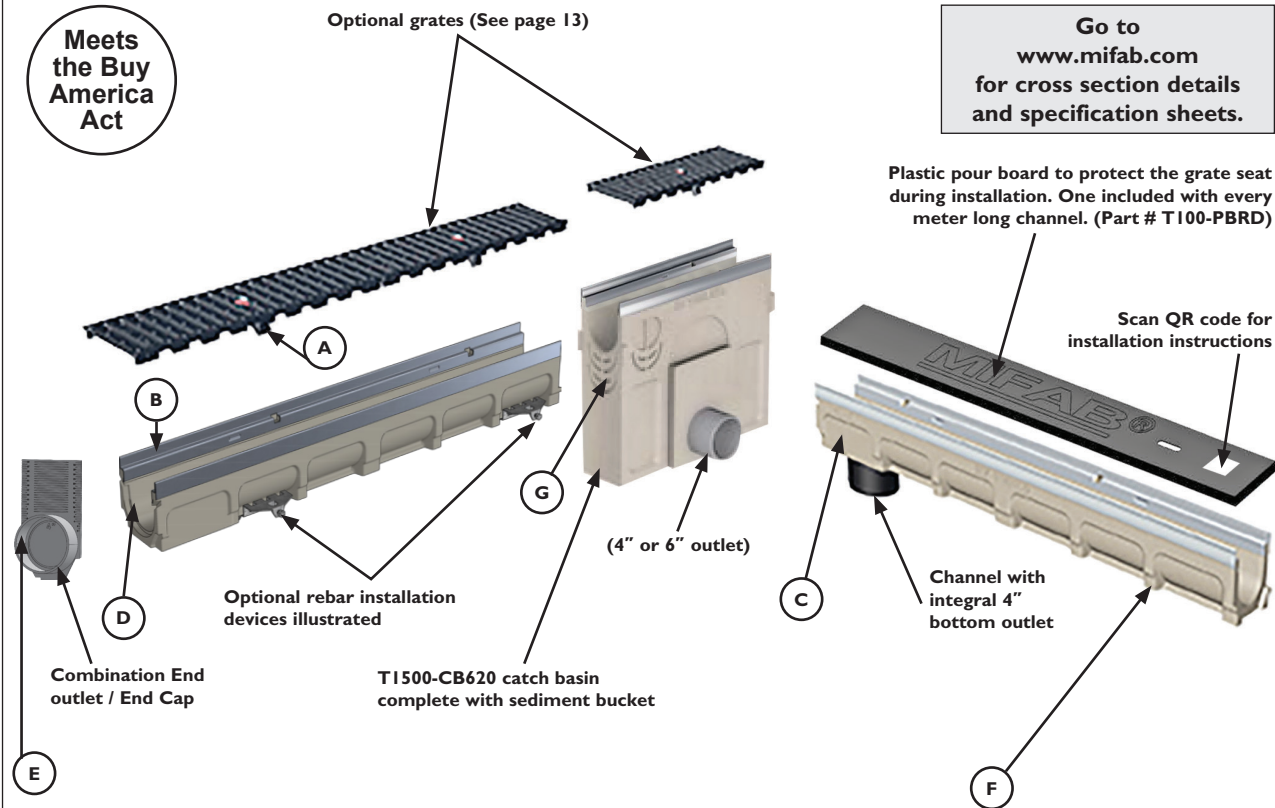
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T1500 SYSTEM COMPONENTS AND FEATURES



- A. Innovative CLIPFIX grate locking mechanism for plastic, ductile iron (up to and including Load Class E), galvanized and stainless steel gratings. Innovative PROFIX grate locking mechanism for Load Class F ductile iron gratings.
- B. Polymer concrete channels with galvanized and stainless steel edge rails (4mm thick) and ductile iron integral edge rails. (7mm thick) as per EN 1433. Optional rebar installation devices illustrated (part # T1500-REB).
- C. High strength of the drainage channel body enables Load Class A 15kN to Load Class F 900kN.
- D. Optimized flow cross section promotes self cleaning.
- E. Combination end cap / 4" 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 encasement.
- G. Catch basins are adaptable to all channel depths.



SCAN ME



ADA gratings 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.

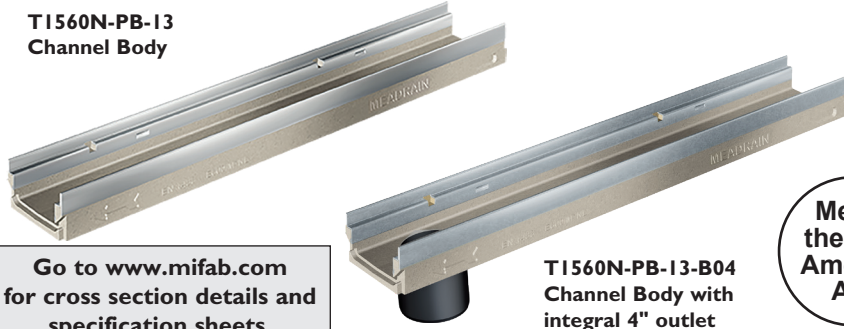


Heelproof gratings are designed to resist entry of pointed high heel shoes from entering the trench drain grate opening. ASME Standard A112.6.3, Section 7.12 defines Heelproof as: "A grate designed to resist entry of high-heeled shoes, in which the maximum grate hole size in least dimension shall be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

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**T1560 - 4" INTERNAL WIDTH - SHALLOW CHANNELS**

**T1560N-PB-13**  
Channel Body



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

**T1560N-PB-13-B04**  
Channel Body with integral 4" outlet

Meets the Buy America Act



**T1500-CB620**  
Catch Basin

GALVANIZED STEEL INTEGRAL EDGE RAILS	STAINLESS STEEL INTEGRAL EDGE RAILS	BODY TYPE	INVERT BODY DEPTH	OVERALL BODY DEPTH	MAXIMUM FLOW RATE	WEIGHT (LESS GRATE)
Channel Model #	Channel Model #	Neutral - 0%			GPM	Lbs.
<b>T1560N-PB-13</b>	<b>T1560N-PB-3</b>	Neutral	1.78"	3.15"	48	21.87
<b>T1560N-PB-13-500</b> (1/2 meter long)	<b>T1560N-PB-3-500</b> (1/2 meter long)	Neutral	1.78"	3.15"	48	10.80
<b>T1560N-PB-13-B04</b>	<b>T1560N-PB-3-B04</b>	Neutral	1.78"	3.15"	48	21.38

**CATCH BASINS FOR T1500 AND T1560 CHANNELS**

GALVANIZED STEEL INTEGRAL EDGE RAILS	STAINLESS STEEL INTEGRAL EDGE RAILS	DUCTILE IRON INTEGRAL EDGE RAILS	BODY TYPE	INVERT DEPTH	OVERALL DEPTH	WEIGHT (LESS GRATE)
Catch Basin Model #	Catch Basin Model #	Catch Basin Model #	Neutral - 0%			Lbs.
<b>T1500-CB620-13-SO4</b>	<b>T1500-CB620-3-SO4</b>	<b>T1500-CB620-4-SO4</b>	Neutral	17"	17"	77.16
<b>T1500-CB620-13-SO6</b>	<b>T1500-CB620-3-SO6</b>	<b>T1500-CB620-4-SO6</b>	Neutral	17"	17"	77.16
<b>T1500-CB620-SB</b>	Replacement sediment bucket					

**NOTE:** All catch basins are shipped with the sediment bucket included.

<b>MI-FLEX-400</b>	<b>T1500-PBDS</b>	<b>T1500-PEO</b> Grey Plastic End Cap / Outlet - 4"	<b>T1500-PEO-BLK</b> Black Plastic End Cap / Outlet for channels with ductile iron rails - 4"	<b>T1500-REB</b> (Installation Device) Optional Installation Device (Two required per channel) (Not suitable for T1560)	<b>T1560-PEC</b> Closed End Cap for T1560N Channels	<b>T100-PBRD</b>

MODEL #	DESCRIPTION	MATERIAL	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	0.50
<b>T1500-PBDS</b>	Bottom Dome Strainer	Stainless Steel	0.20
<b>T1500-PEO</b>	4" No Hub grey plastic End Cap / Outlet	Plastic	0.44
<b>T1500-PEO-BLK</b>	4" No Hub black plastic End Cap / Outlet for channels with ductile iron rails	Plastic	0.44
<b>T1500-REB</b>	Installation Device (See page 25) (Two required per channel) (Not suitable for T1560)	Galvanized Steel	0.22
<b>T1560-PEC-13</b>	Closed End Cap for T1560N-13 channels	Galvanized Steel	0.20
<b>T1560-PEC-3</b>	Closed End Cap for T1560N-3 channels	Stainless Steel	0.20
<b>T100-PBRD</b>	Replacement plastic pour board to protect the channel during installation. One included with every meter long channel	Plastic	2.00

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## T1500 - 4" INTERNAL WIDTH CHANNELS

**T1500-4**  
(Channel with ductile iron integral edge rails)

**T1500-13, T1500-3**  
(Channels with galvanized and stainless steel integral edge rails)

GALVANIZED STEEL INTEGRAL EDGE RAILS  Channel Model #	STAINLESS STEEL INTEGRAL EDGE RAILS  Channel Model #	DUCTILE IRON INTEGRAL EDGE RAILS (for Load Class F grates)  Channel Model #	BODY TYPE  Sloped - .5% Neutral - 0%	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE  GPM	WEIGHT (LESS GRATE)  Lbs.
				E1 (Min.)	E2 (Max.)	E1 (Min.)	E2 (Max.)		
T1500N-PB-13	T1500N-PB-3	T1500N-PB-4	Neutral	4.34"	4.34"	5.91"	5.91"	109	34.94
T1500N-PB-13-BO4	T1500N-PB-3-BO4	T1500N-PB-4-BO4	Neutral	4.34"	4.34"	5.91"	5.91"	109	31.97
T1500N-PB-13-500	T1500N-PB-3-500	T1500N-PB-4-500	Neutral	4.34"	4.34"	5.91"	5.91"	109	16.95
T1501-PB-13	T1501-PB-3	T1501-PB-4	Sloped	4.34"	4.53"	5.91"	6.11"	117	31.97
T1502-PB-13	T1502-PB-3	T1502-PB-4	Sloped	4.53"	4.73"	6.11"	6.30"	125	31.97
T1503-PB-13	T1503-PB-3	T1503-PB-4	Sloped	4.73"	4.93"	6.30"	6.50"	135	33.07
T1504-PB-13	T1504-PB-3	T1504-PB-4	Sloped	4.93"	5.12"	6.50"	6.70"	143	33.36
T1505-PB-13	T1505-PB-3	T1505-PB-4	Sloped	5.12"	5.32"	6.70"	6.89"	151	34.17
T1506-PB-13	T1506-PB-3	T1506-PB-4	Sloped	5.32"	5.52"	6.89"	7.09"	160	35.27
T1507-PB-13	T1507-PB-3	T1507-PB-4	Sloped	5.52"	5.71"	7.09"	7.29"	170	36.38
T1508-PB-13	T1508-PB-3	T1508-PB-4	Sloped	5.71"	5.91"	7.29"	7.49"	179	36.38
T1509-PB-13	T1509-PB-3	T1509-PB-4	Sloped	5.91"	6.11"	7.49"	7.68"	189	37.48
T1510-PB-13	T1510-PB-3	T1510-PB-4	Sloped	6.11"	6.30"	7.68"	7.88"	198	37.96
T1510-PB-13-BO4	T1510-PB-3-BO4	T1510N-PB-4-BO4	Sloped	6.11"	6.30"	7.68"	7.88"	198	37.48
T1510N-PB-13	T1510N-PB-3	T1510N-PB-4	Neutral	6.30"	6.30"	7.88"	7.88"	198	37.99
T1510N-PB-13-BO4	T1510N-PB-3-BO4	T1510N-PB-4-500	Neutral	6.30"	6.30"	7.68"	7.88"	198	38.58
T1510N-PB-13-500	T1510N-PB-3-500	T1511-PB-4	Neutral	6.30"	6.30"	7.88"	7.88"	198	19.84
T1511-PB-13	T1511-PB-3	T1512-PB-4	Sloped	6.30"	6.50"	7.88"	8.08"	209	39.03
T1512-PB-13	T1512-PB-3	T1513-PB-4	Sloped	6.50"	6.70"	8.08"	8.27"	219	39.65
T1513-PB-13	T1513-PB-3	T1514-PB-4	Sloped	6.70"	6.89"	8.27"	8.47"	230	40.26
T1514-PB-13	T1514-PB-3	T1515-PB-4	Sloped	6.89"	7.09"	8.47"	8.67"	241	40.88
T1515-PB-13	T1515-PB-3	T1516-PB-4	Sloped	7.09"	7.29"	8.67"	8.86"	252	41.50
T1516-PB-13	T1516-PB-3	T1517-PB-4	Sloped	7.29"	7.49"	8.86"	9.06"	268	42.11
T1517-PB-13	T1517-PB-3	T1518-PB-4	Sloped	7.49"	7.68"	9.06"	9.26"	281	42.73
T1518-PB-13	T1518-PB-3	T1519-PB-4	Sloped	7.68"	7.88"	9.26"	9.45"	293	43.35
T1519-PB-13	T1519-PB-3	T1520-PB-4	Sloped	7.88"	8.08"	9.45"	9.65"	306	43.97
T1520-PB-13	T1520-PB-3	T1520N-PB-4-BO4	Sloped	8.08"	8.27"	9.65"	9.85"	319	44.58
T1520-PB-13-BO4	T1520-PB-3-BO4	T1520N-PB-4	Sloped	8.08"	8.27"	9.65"	9.85"	319	44.58
T1520N-PB-13	T1520N-PB-3	T1520N-PB-4-500	Neutral	8.27"	8.27"	9.85"	9.85"	319	45.19
T1520N-PB-13-BO4	T1520N-PB-3-BO4		Neutral	8.27"	8.27"	9.85"	9.85"	319	45.19
T1520N-PB-13-500	T1520N-PB-3-500		Neutral	8.27"	8.27"	9.85"	9.85"	319	22.93
T1521-PB-13	T1521-PB-3		Sloped	8.27"	8.47"	10.04"	10.24"	331	47.95
T1522-PB-13	T1522-PB-3		Sloped	8.47"	8.67"	10.24"	10.44"	346	48.57
T1523-PB-13	T1523-PB-3		Sloped	8.67"	8.86"	10.44"	10.63"	360	49.19
T1524-PB-13	T1524-PB-3		Sloped	8.86"	9.06"	10.63"	10.83"	374	49.80
T1525-PB-13	T1525-PB-3		Sloped	9.06"	9.26"	10.83"	11.03"	388	50.42
T1526-PB-13	T1526-PB-3		Sloped	9.26"	9.45"	11.03"	11.23"	412	51.04
T1527-PB-13	T1527-PB-3		Sloped	9.45"	9.65"	11.23"	11.42"	428	51.65
T1528-PB-13	T1528-PB-3		Sloped	9.65"	9.85"	11.42"	11.62"	444	52.27
T1529-PB-13	T1529-PB-3		Sloped	9.85"	10.04"	11.62"	11.82"	460	52.89
T1530-PB-13	T1530-PB-3		Sloped	10.04"	10.24"	11.82"	12.01"	477	53.51
T1530-PB-13-BO4	T1530-PB-3-BO4		Sloped	10.04"	10.24"	11.82"	12.01"	477	53.51

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)	Weight	Grate Free Area (Sq. in./ft.)
T100-PGA-13-FP	Class A Galvanized Perforated Grate, 1 meter		39.37" (1000)	3.85	8.08
T100-PGA-13-FP-500	Class A Galvanized Perforated Grate, 1/2 meter		19.69" (500)	2.09	8.08
T100-PGA-3-FP	Class A Stainless Steel Perforated Grate, 1 meter		39.37" (1000)	3.85	8.08
T100-PGA-3-FP-500	Class A Stainless Steel Perforated Grate, 1/2 meter		19.69" (500)	2.09	8.08
T100-PGA-13-FS	Class A Galvanized Slotted Grate, 1 meter		39.37" (1000)	3.08	13.31
T100-PGA-13-FS-500	Class A Galvanized Slotted Grate, 1/2 meter		19.69" (500)	2.86	13.31
T100-PGA-3-FS	Class A Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	3.12	13.31
T100-PGA-3-FS-500	Class A Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	2.42	13.31
T100-PGA-3-SM	Class A Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	5.72	40.17
T100-PGA-3-SM-500	Class A Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	3.08	40.17
T100-PGA-HPP-BLK	Class A Plastic Longitudinal, Slotted Black Grate, 1/2 meter		19.69" (500)	1.80	7.56
T100-PGA-HPP-GRY	Class A Plastic Longitudinal, Slotted Grey Grate, 1/2 meter		19.69" (500)	1.80	7.56

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

T100-PGB-13-LS	Class B Galvanized Longitudinal Grate, 1 meter		39.37" (1000)	8.80	28.05
T100-PGB-13-LS-500	Class B Galvanized Longitudinal Grate, 1/2 meter		19.69" (500)	4.37	28.05
T100-PGB-3-WW	Class B Stainless Steel Longitudinal, anti slip, WW Grate, 1 meter		39.37" (1000)	8.80	26.52
T100-PGB-3-WW-500	Class B Stainless Steel Longitudinal, anti slip, WW Grate, 1/2 meter		19.69" (500)	4.37	26.52

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

T100-PGC-13-FP	Class C Galvanized Perforated Grate, 1 meter		39.37" (1000)	9.04	8.08
T100-PGC-13-FP-500	Class C Galvanized Perforated Grate, 1/2 meter		19.69" (500)	4.51	8.08
T100-PGC-3-FP	Class C Stainless Steel Perforated Grate, 1 meter		39.37" (1000)	9.04	8.08
T100-PGC-3-FP-500	Class C Stainless Steel Perforated Grate, 1/2 meter		19.69" (500)	4.51	8.08
T100-PGC-13-FS	Class C Galvanized Slotted Grate, 1 meter		39.37" (1000)	9.68	13.31
T100-PGC-13-FS-500	Class C Galvanized Slotted Grate, 1/2 meter		19.69" (500)	4.59	13.31
T100-PGC-3-FS	Class C Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	9.32	13.31
T100-PGC-3-FS-500	Class C Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	4.62	13.31
T100-PGC-13-GM	Class C Galvanized Mesh Grate, 1 meter		39.37" (1000)	11.50	40.75
T100-PGC-13-GM-500	Class C Galvanized Mesh Grate, 1/2 meter		19.69" (500)	5.80	40.75
T100-PGC-3-SM	Class C Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	11.50	40.75
T100-PGC-3-SM-500	Class C Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	5.80	40.75
T100-PGC-13-SD	Class C Galvanized Paverslot Grate, 1 meter		39.37" (1000)	10.25	6.00
T100-PGC-13-SD-500	Class C Galvanized Paverslot Grate, 1/2 meter		19.69" (500)	5.23	6.00
T100-PGC-13-SD-MU-500	Class C Galvanized Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	7.43	3.00
T100-PGC-3-SD	Class C Stainless Steel Paverslot Grate, 1 meter		39.37" (1000)	10.07	6.00
T100-PGC-3-SD-500	Class C Stainless Steel Paverslot Grate, 1/2 meter		19.69" (500)	5.06	6.00
T100-PGC-3-SD-MU-500	Class C Stainless Steel Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	7.43	3.00
T100-PGC-HPP	Class C Black Plastic Slotted Grate, 1/2 meter		19.69" (500)	2.35	9.84
T100-PGC-4	Class C Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	7.26	16.64
T100-PGC-4-13	Class C Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	7.26	16.64
T100-PGC-4-HP	Class C Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	7.26	7.42
T100-PGC-4-ADA	Class C Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	7.26	7.42
T100-PGC-4-ADA-13	Class C Galvanized Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	7.26	7.42
T100-PGC-4-WVY	Class C Ductile Iron WAVE Grate, 1/2 meter		19.69" (500)	10.12	25.96
T100-PGC-4-BG	Class C Ductile Iron Bavaria Grate, 1/2 meter		19.69" (500)	6.60	13.88
T100-SCC-4	Class C Ductile Iron Solid Cover, 1/2 meter		19.69" (500)	13.00	-

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

T100-PGE-13-FS	Class E Galvanized Slotted Grate, 1 meter		39.37" (1000)	9.68	13.31
T100-PGE-13-FS-500	Class E Galvanized Slotted Grate, 1/2 meter		19.69" (500)	4.59	13.31
T100-PGE-3-FS	Class E Stainless Steel Slotted Grate, 1 meter		39.37" (1000)	9.32	13.31
T100-PGE-3-FS-500	Class E Stainless Steel Slotted Grate, 1/2 meter		19.69" (500)	4.62	13.31
T100-PGE-4	Class E Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	8.36	19.49
T100-PGE-4-13	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	8.36	19.49
T100-PGE-4-HP	Class E Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	8.36	7.42
T100-PGE-4-ADA	Class E Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	10.70	18.07
T100-PGE-4-ADA-13	Class E Galvanized Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	10.70	18.07
T100-PGE-3-SBG	Class E Stainless Steel Bar Grate		39.37" (1000)	12.00	24.70
T100-PGE-3-SBG-500	Class E Stainless Steel Bar Grate, 1/2 meter		19.69" (500)	7.00	24.70

**LOAD CLASS F GRATES - EN 1433 - 202,320 lbs., 900 Kn, 4,177 P.S.I.**

T100-PGF-4-PX	Class F Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	9.50	18.83
T100-PGF-4-PX-13	Class F Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	9.50	18.83
T100-PGF-4-B	Class F Ductile Iron 4 bolt slotted grate, 1/2 meter		19.69" (500)	9.50	18.83
T100-PGF-4-B-13	Class F Galvanized Ductile Iron 4 bolt slotted grate, 1/2 meter		19.69" (500)	9.50	18.83
T100-PGF-4-ADA-PX	Class F Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	12.00	18.07
T100-PGF-4-ADA-PX-13	Class F Galvanized Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	12.00	18.07

**ONLY AVAILABLE WITH DUCTILE IRON FRAME CHANNELS.**

See page 10 for explanation of ADA compliant grates

See page 10 for explanation of Heelproof compliant grates

**Black acid resistant epoxy coated ductile iron grates (-11B) are available. Same price as the -13 grates.**

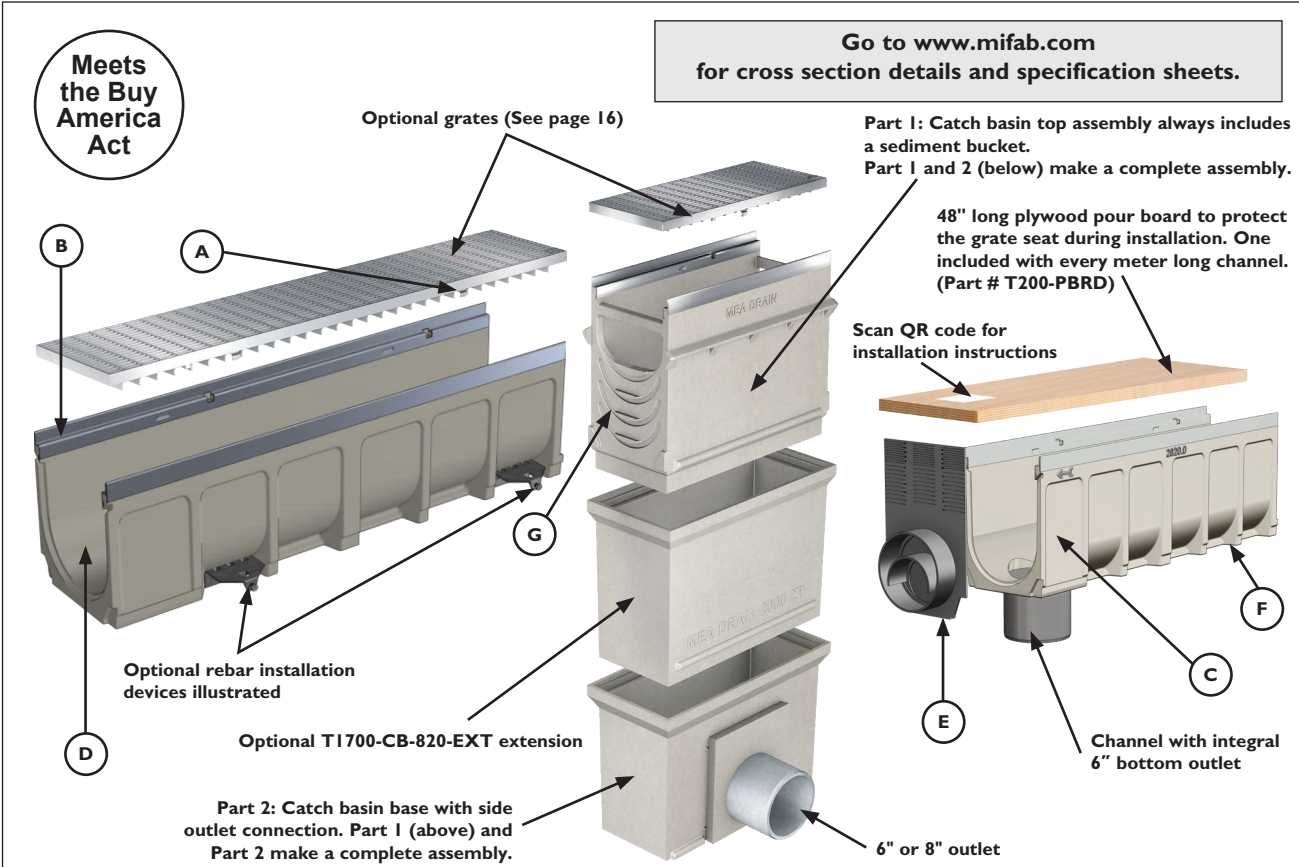
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All sales subject to MIFAB®'s Terms and Warranties, please refer to page no. 68.

T1700 SYSTEM COMPONENTS AND FEATURES



- A. Innovative CLIPFIX grate locking mechanism for plastic, ductile iron (up to and including Load Class E), galvanized and stainless steel gratings. Innovative PROFIX grate locking mechanism for Load Class F ductile iron gratings.
- B. Polymer concrete channels with galvanized and stainless steel edge rails (4mm thick) and ductile iron integral edge rails. (7mm thick) as per EN 1433. Optional rebar installation devices illustrated (part # T1700-REB).
- C. High strength of the drainage channel body enables Load Class A 15kN to Load Class F 900kN.
- D. Optimized flow cross section promotes self cleaning.
- E. Combination end cap / 4" or 6" 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 encasement.
- G. Catch basins are adaptable to all channel depths.



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ADA gratings 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 gratings 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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**T1760 - 8" INTERNAL WIDTH - SHALLOW CHANNELS**

**T1760N-PB-13**  
Shallow Channel



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

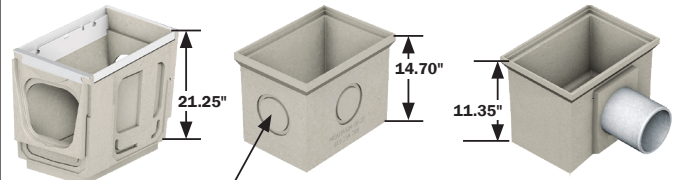
**T1760N-PB-13-B04**  
Shallow Channel with integral 4" outlet

Meets the Buy America Act



SCAN ME

**T1700-CB820 Catch Basin**



Optional T1700-CB820-EXT extension

GALVANIZED STEEL INTEGRAL EDGE RAILS	STAINLESS STEEL INTEGRAL EDGE RAILS	DUCTILE IRON INTEGRAL EDGE RAILS	BODY TYPE	INVERT BODY DEPTH	OVERALL BODY DEPTH	MAXIMUM FLOW RATE	WEIGHT (LESS GRATE)
Channel Model #	Channel Model #	Channel Model #	Neutral - 0%			GPM	Lbs.
<b>T1760N-PB-13</b>	<b>T1760N-PB-3</b>	<b>T1760N-PB-4</b>	Neutral	2.37"	3.94"	240	43.85
<b>T1760N-PB-13-500</b> (1/2 Meter long)	<b>T1760N-PB-3-500</b> (1/2 Meter long)	<b>T1760N-PB-4-500</b> (1/2 Meter long)	Neutral	2.37"	3.94"	240	22.05
<b>T1760N-PB-13-B04</b>	<b>T1760N-PB-3-B04</b>	<b>T1760N-PB-4-B04</b>	Neutral	2.37"	3.94"	240	41.45

**CATCH BASINS FOR T1700 AND T1760 CHANNELS**

GALVANIZED STEEL INTEGRAL EDGE RAILS	STAINLESS STEEL INTEGRAL EDGE RAILS	DUCTILE IRON INTEGRAL EDGE RAILS	BODY TYPE	INVERT DEPTH	OVERALL DEPTH	WEIGHT (LESS GRATE)
Catch Basin Model #	Catch Basin Model #	Catch Basin Model #	Neutral - 0%			Lbs.
<b>T1700-CB820-13-S06</b>	<b>T1700-CB820-3-S06</b>	<b>T1700-CB820-4-S06</b>	Neutral	31.80"	32.60"	82.75
<b>T1700-CB820-13-S08</b>	<b>T1700-CB820-3-S08</b>	<b>T1700-CB820-4-S08</b>	Neutral	31.80"	32.60"	82.75
<b>T1700-CB820-EXT</b>	Optional extension piece to install between base and top assembly for deeper inverts.			-	14.75"	48.50
<b>T1700-CB820-SB</b>	Replacement sediment bucket					

**NOTE:** The T1700-CB820 catch basin includes the base and top assembly.

<b>MI-FLEX-400, 600, 800</b>	<b>T1700-PBDS</b>	<b>T1700-PEO</b> Grey Plastic End Cap / Outlet - 4" or 6"	<b>T1700-PEO-BLK</b> Black Plastic End Cap / Outlet for channels with ductile iron rails - 4" or 6"	<b>T1700-REB</b> (Installation Device) Optional Installation Device (Two required per channel) (Not suitable for T1760)	<b>T1760-PEC</b> Closed End Cap for T1760N Channels	<b>T200-PBRD</b>

MODEL #	DESCRIPTION	MATERIAL	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	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	0.75
<b>T1700-PBDS</b>	Bottom Dome Strainer	Stainless Steel	0.20
<b>T1700-PEO</b>	4" or 6" No Hub grey plastic End Cap / Outlet	Plastic	0.44
<b>T1700-PEO-BLK</b>	4" or 6" No Hub black plastic End Cap / Outlet for channels with ductile iron rails	Plastic	0.44
<b>T1700-REB</b>	Installation Device (See page 25) (Two required per channel) (Not suitable for T1760)	Galvanized Steel	0.22
<b>T1760-PEC-13</b>	Closed End Cap for T1760N-13 channels	Galvanized Steel	0.30
<b>T1760-PEC-3</b>	Closed End Cap for T1760N-3 channels	Stainless Steel	0.30
<b>T200-PBRD</b>	Replacement 48" long plywood pour board to protect the channel during installation. One included with every meter long channel.	Plywood	5.00

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Meets the Buy America Act



**T1700-13, T1700-3**  
(Channels with galvanized and stainless steel integral edge rails)



**T1700-4**  
(Channel with ductile iron integral edge rails)



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

GALVANIZED STEEL INTEGRAL EDGE RAILS	STAINLESS STEEL INTEGRAL EDGE RAILS	DUCTILE IRON INTEGRAL EDGE RAILS (for Load Class F grates)	BODY TYPE	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE	WEIGHT (LESS GRATE)
				Min.	Max.	Min.	Max.		
Channel Model #	Channel Model #	Channel Model #	Sloped - .5% Neutral - 0%						
<b>T1700N-PB-13</b>	<b>T1700N-PB-3</b>	<b>T1700N-PB-4</b>	Neutral	7.29"	7.29"	9.06"	9.06"	473	63.21
<b>T1700N-PB-13-BO6</b>	<b>T1700N-PB-3-BO6</b>	<b>T1700N-PB-4-BO6</b>	Neutral	7.29"	7.29"	9.06"	9.06"	473	63.21
<b>T1700N-PB-13-500</b>	<b>T1700N-PB-3-500</b>	<b>T1700N-PB-4-500</b>	Neutral	7.29"	7.29"	9.06"	9.06"	473	32.36
<b>T1701-PB-13</b>	<b>T1701-PB-3</b>		Sloped	7.29"	7.49"	9.06"	9.26"	498	63.34
<b>T1702-PB-13</b>	<b>T1702-PB-3</b>		Sloped	7.49"	7.68"	9.26"	9.45"	521	64.04
<b>T1703-PB-13</b>	<b>T1703-PB-3</b>		Sloped	7.68"	7.88"	9.45"	9.65"	545	64.74
<b>T1704-PB-13</b>	<b>T1704-PB-3</b>		Sloped	7.88"	8.08"	9.65"	9.85"	571	65.44
<b>T1705-PB-13</b>	<b>T1705-PB-3</b>		Sloped	8.08"	8.27"	9.85"	10.04"	596	66.13
<b>T1706-PB-13</b>	<b>T1706-PB-3</b>		Sloped	8.27"	8.47"	10.04"	10.24"	621	66.83
<b>T1707-PB-13</b>	<b>T1707-PB-3</b>		Sloped	8.47"	8.67"	10.24"	10.44"	648	67.53
<b>T1708-PB-13</b>	<b>T1708-PB-3</b>		Sloped	8.67"	8.86"	10.44"	10.63"	675	68.23
<b>T1709-PB-13</b>	<b>T1709-PB-3</b>		Sloped	8.86"	9.06"	10.63"	10.83"	704	68.93
<b>T1710-PB-13</b>	<b>T1710-PB-3</b>		Sloped	9.06"	9.26"	10.83"	11.03"	732	70.33
<b>T1710-PB-13-BO6</b>	<b>T1710-PB-3-BO6</b>		Sloped	9.06"	9.26"	10.83"	11.03"	732	70.33
<b>T1710N-PB-13</b>	<b>T1710N-PB-3</b>	<b>T1710N-PB-4</b>	Neutral	9.26"	9.26"	11.03"	11.03"	732	70.77
<b>T1710N-PB-13-BO6</b>	<b>T1710N-PB-3-BO6</b>		Neutral	9.26"	9.26"	11.03"	11.03"	732	71.87
<b>T1710N-PB-13-500</b>	<b>T1710N-PB-3-500</b>	<b>T1710N-PB-4-500</b>	Neutral	9.26"	9.26"	11.03"	11.03"	732	35.94
<b>T1711-PB-13</b>	<b>T1711-PB-3</b>		Sloped	9.26"	9.45"	11.03"	11.23"	777	71.03
<b>T1712-PB-13</b>	<b>T1712-PB-3</b>		Sloped	9.45"	9.65"	11.23"	11.42"	807	71.73
<b>T1713-PB-13</b>	<b>T1713-PB-3</b>		Sloped	9.65"	9.85"	11.42"	11.62"	837	72.42
<b>T1714-PB-13</b>	<b>T1714-PB-3</b>		Sloped	9.85"	10.04"	11.62"	11.82"	869	73.12
<b>T1715-PB-13</b>	<b>T1715-PB-3</b>		Sloped	10.04"	10.24"	11.82"	12.01"	902	73.82
<b>T1716-PB-13</b>	<b>T1716-PB-3</b>		Sloped	10.24"	10.44"	12.01"	12.21"	935	74.52
<b>T1717-PB-13</b>	<b>T1717-PB-3</b>		Sloped	10.44"	10.63"	12.21"	12.41"	968	75.22
<b>T1718-PB-13</b>	<b>T1718-PB-3</b>		Sloped	10.63"	10.83"	12.41"	12.60"	1003	75.92
<b>T1719-PB-13</b>	<b>T1719-PB-3</b>		Sloped	10.83"	11.03"	12.60"	12.80"	1038	76.62
<b>T1720-PB-13</b>	<b>T1720-PB-3</b>		Sloped	11.03"	11.23"	12.80"	13.00"	1105	77.32
<b>T1720-PB-13-BO6</b>	<b>T1720-PB-3-BO6</b>		Sloped	11.03"	11.23"	12.80"	13.00"	1105	77.32
<b>T1720N-PB-13</b>	<b>T1720N-PB-3</b>	<b>T1720N-PB-4</b>	Neutral	11.23"	11.23"	13.00"	13.00"	1105	79.87
<b>T1720N-PB-13-BO6</b>	<b>T1720N-PB-3-BO6</b>	<b>T1720N-PB-4-500-BO6</b>	Neutral	11.23"	11.23"	13.00"	13.00"	1105	79.81
<b>T1720N-PB-13-500</b>	<b>T1720N-PB-3-500</b>	<b>T1720N-PB-4-500</b>	Neutral	11.23"	11.23"	13.00"	13.00"	1105	36.38

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)	Weight	Grate Free Area (Sq. in. /ft.)	
T200-PGA-13-GM	Class A Galvanized Mesh Grate, 1 meter		39.37" (1000)	13.13	78.78	
T200-PGA-13-GM-500	Class A Galvanized Mesh Grate, 1/2 meter		19.69" (500)	6.82	78.78	
T200-PGA-3-SM	Class A Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	13.13	78.78	
T200-PGA-3-SM-500	Class A Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	6.82	78.78	

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

T200-PGB-13-LS	Class B Galvanized Longitudinal Grate, 1 meter		39.37" (1000)	16.02	51.25	
T200-PGB-13-LS-500	Class B Galvanized Longitudinal Grate, 1/2 meter		19.69" (500)	8.38	51.25	
T200-PGB-3-WW	Class B Stainless Longitudinal, anti slip WW grate, 1 meter		39.37" (1000)	16.32	48.78	
T200-PGB-3-WW-500	Class B Stainless Longitudinal, anti slip WW grate, 1/2 meter		19.69" (500)	8.31	48.78	

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

T200-PGC-13-GM	Class C Galvanized Mesh Grate, 1 meter		39.37" (1000)	24.33	70.46	
T200-PGC-13-GM-500	Class C Galvanized Mesh Grate, 1/2 meter		19.69" (500)	11.66	70.46	
T200-PGC-3-SM	Class C Stainless Steel Mesh Grate, 1 meter		39.37" (1000)	24.33	70.46	
T200-PGC-3-SM-500	Class C Stainless Steel Mesh Grate, 1/2 meter		19.69" (500)	11.66	70.46	
T200-PGC-13-SD	Class C Galvanized Paverslot Grate, 1 meter		39.37" (1000)	47.08	12.01	
T200-PGC-13-SD-500	Class C Galvanized Paverslot Grate, 1/2 meter		19.69" (500)	23.54	12.01	
T200-PGC-13-MU-500	Class C Galvanized Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	43.78	6.01	
T200-PGC-3-SD	Class C Stainless Steel Paverslot Grate, 1 meter		39.37" (1000)	47.08	12.01	
T200-PGC-3-SD-500	Class C Stainless Steel Paverslot Grate, 1/2 meter		19.69" (500)	23.54	12.01	
T200-PGC-3-MU-500	Class C Stainless Steel Maintenance Unit Paverslot, 1/2 meter		19.69" (500)	43.78	6.01	
T200-PGC-4	Class C Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	13.79	50.68	
T200-PGC-4-HP	Class C Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	13.79	10.94	
T200-PGC-4-WVY	Class C Ductile Iron WAVE Grate, 1/2 meter		19.69" (500)	13.86	47.73	
T200-PGC-4-BG	Class C Ductile Iron Bavaria Grate, 1/2 meter		19.69" (500)	13.64	28.19	

**LOAD CLASS D GRATES - EN 1433 - 89,920 LBS., 400kN, 1856 P.S.I**

T200-SCD-4-PX	Class D Ductile Iron Solid Cover, 1/2 meter		19.69" (500)	26.00	-	
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**LOAD CLASS E GRATES - EN 1433 - 134,800 LBS., 600kN, 2,785 P.S.I.**

T200-PGE-4	Class E Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	19.25	51.20	
T200-PGE-4-13	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	19.25	51.20	
T200-PGE-4-HP	Class E Ductile Iron Heelproof Slotted Grate, 1/2 meter		19.69" (500)	13.79	14.17	
T200-PGE-4-ADA	Class E Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	21.25	26.72	
T200-PGE-4-ADA-13	Class E Galvanized Ductile Iron Longitudinal Grate, 1/2 meter		19.69" (500)	21.25	26.72	
T200-PGE-3-SBG	Class E Stainless Steel Bar Grate, 1 meter		39.37" (1000)	75.00	50.46	
T200-PGE-3-SBG-500	Class E Stainless Steel Bar Grate, 1/2 meter		19.69" (500)	40.00	50.46	

**LOAD CLASS F GRATES - EN 1433 - 202,320 lbs., 900 Kn, 4,177 P.S.I.**

T200-PGF-4-PX	Class F Ductile Iron Slotted Grate, 1/2 meter	<b>ONLY AVAILABLE WITH DUCTILE IRON FRAME CHANNELS.</b>	19.69" (500)	22.00	48.30		
T200-PGF-4-PX-13	Class F Galvanized Ductile Iron Slotted Grate, 1/2 meter		19.69" (500)	22.00	48.30		
T200-PGF-4-B	Class F Ductile Iron 4 bolt slotted grate, 1/2 meter		19.69" (500)	22.00	48.30		
T200-PGF-4-B-13	Class F Galvanized Ductile Iron 4 bolt slotted grate, 1/2 meter		19.69" (500)	22.00	48.30		
T200-PGF-4-ADA-PX	Class F Ductile Iron Longitudinal Grate, 1/2 meter			19.69" (500)	24.00	32.33	
T200-PGF-4-ADA-PX-13	Class F Galvanized Ductile Iron Longitudinal Grate, 1/2 meter			19.69" (500)	24.00	32.33	

See page 10 for explanation of ADA compliant grates

See page 10 for explanation of Heelproof compliant grates

Black acid resistant epoxy coated ductile iron grates (-11B) are available. Same price as the -13 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.

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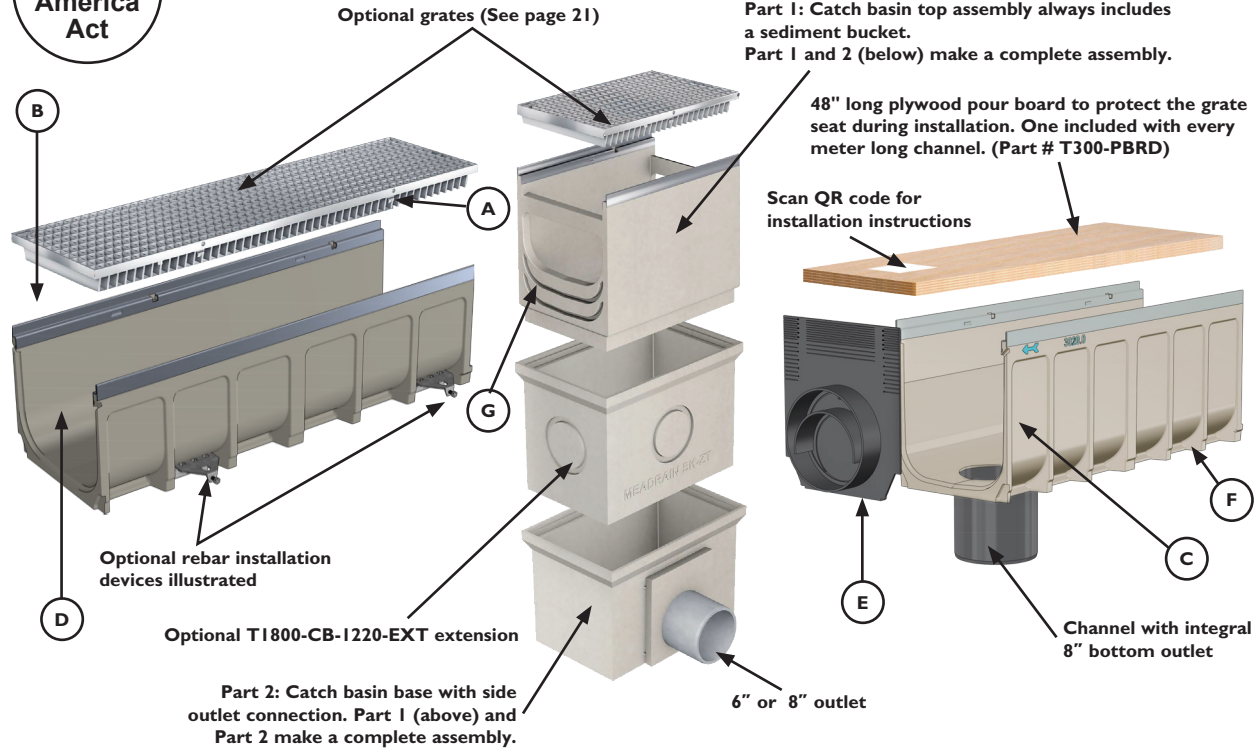
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T1800 SYSTEM COMPONENTS AND FEATURES

Meets the Buy America Act

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



- A. Innovative CLIPFIX grate locking mechanism for plastic, ductile iron (up to and including Load Class E), galvanized and stainless steel gratings. Innovative PROFIX grate locking mechanism for Load Class F ductile iron gratings.
- B. Polymer concrete channels with galvanized and stainless steel edge rails (4mm thick) and ductile iron integral edge rails. (7mm thick) as per EN 1433. Optional rebar installation devices illustrated (part # T1800-REB).
- C. High strength of the drainage channel body enables Load Class A 15kN to Load Class F 900kN.
- D. Optimized flow cross section promotes self cleaning.
- E. Combination end cap / 6" or 8" 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 encasement.
- G. Catch basins are adaptable to all channel depths.



SCAN ME



ADA gratings 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 gratings 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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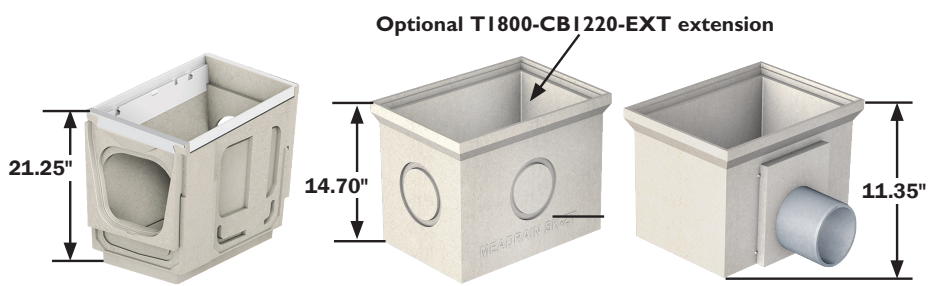
**CATCH BASINS FOR T1800 CHANNELS**

Meets the Buy America Act



SCAN ME

**T1800-CBI220 Catch Basin**



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

GALVANIZED STEEL INTEGRAL EDGE RAILS	STAINLESS STEEL INTEGRAL EDGE RAILS	DUCTILE IRON INTEGRAL EDGE RAILS	INVERT DEPTH	OVERALL DEPTH	WEIGHT (LESS GRATE)
Catch Basin Model #	Catch Basin Model #	Catch Basin Model #			Lbs.
<b>T1800-CB1220-13-SO6</b>	<b>T1800-CB1220-3-SO6</b>	<b>T1800-CB1220-4-SO6</b>	28.85"	29.50"	116.00
<b>T1800-CB1220-13-SO8</b>	<b>T1800-CB1220-3-SO8</b>	<b>T1800-CB1220-4-SO8</b>	28.85"	29.50"	116.00
<b>T1800-CB1220-EXT</b>	Optional extension piece to install between base & top assembly for deeper inverts.		-	14.75"	48.50
<b>T1800-CB1220-SB</b>	Replacement sediment bucket.				

**NOTE:** The T1800-CBI220 catch basin includes the base and top assembly.

<b>MI-FLEX-600, 800</b>	<b>T1800-PBDS</b>	<b>T1800-PEO</b> Grey Plastic End Cap / Outlet - 6" or 8"	<b>T1800-PEO-BLK</b> Black plastic End Cap / Outlet for channels with ductile iron rails - 6" or 8"	<b>T1800-REB (Installation Device)</b> Optional Installation Device (Two required per channel)	<b>T300-PBRD</b>

MODEL #	DESCRIPTION	MATERIAL	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	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	0.75
<b>T1800-PBDS</b>	Bottom Dome Strainer	Stainless Steel	0.20
<b>T1800-PEO</b>	6" or 8" No Hub grey plastic End Cap / Outlet	Plastic	3.80
<b>T1800-PEO-BLK</b>	6" or 8" No Hub black plastic End Cap / Outlet for channels with ductile iron rails	Plastic	3.80
<b>T1800-REB</b>	Installation Device (See page 25) (Two required per channel)	Galvanized Steel	7.50
<b>T300-PBRD</b>	Replacement 48" long plywood pour board to protect the channel during installation. One included with every meter long channel.	Plywood	7.00

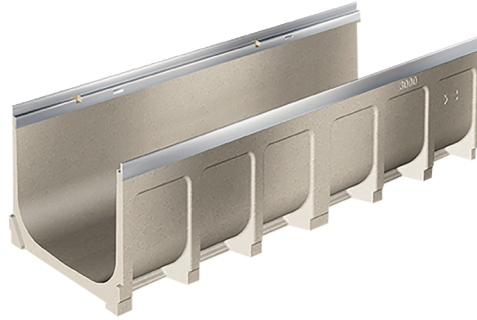
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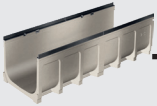
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**T1800-PB-13 Channel Body**



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

GALVANIZED STEEL INTEGRAL EDGE RAILS	STAINLESS STEEL INTEGRAL EDGE RAILS	BODY TYPE	INVERT BODY DEPTH		OVERALL BODY DEPTH		MAXIMUM FLOW RATE	WEIGHT (LESS GRATE)
			E1 (Min.)	E2 (Max.)	E1 (Min.)	E2 (Max.)		
Channel Model # <b>T1800N-PB-13</b>	Channel Model # <b>T1800N-PB-3</b>	Sloped - .5% Neutral - 0%	10.04"	10.04"	11.82"	11.82"	633	76.28
<b>T1800N-PB-13-BO8</b>	<b>T1800N-PB-3-BO8</b>	Neutral	10.04"	10.04"	11.82"	11.82"	633	76.28
<b>T1800N-PB-13-500</b>	<b>T1800N-PB-3-500</b>	Neutral	10.04"	10.04"	11.82"	11.82"	633	38.14
<b>T1801-PB-13</b>	<b>T1801-PB-3</b>	Sloped	10.04"	10.24"	11.82"	12.01"	688	82.19
<b>T1802-PB-13</b>	<b>T1802-PB-3</b>	Sloped	10.24"	10.44"	12.01"	12.21"	721	82.73
<b>T1803-PB-13</b>	<b>T1803-PB-3</b>	Sloped	10.44"	10.63"	12.21"	12.41"	756	83.26
<b>T1804-PB-13</b>	<b>T1804-PB-3</b>	Sloped	10.63"	10.83"	12.41"	12.60"	793	83.80
<b>T1805-PB-13</b>	<b>T1805-PB-3</b>	Sloped	10.83"	11.03"	12.60"	12.80"	829	84.34
<b>T1806-PB-13</b>	<b>T1806-PB-3</b>	Sloped	11.03"	11.23"	12.80"	13.00"	867	84.88
<b>T1807-PB-13</b>	<b>T1807-PB-3</b>	Sloped	11.23"	11.42"	13.00"	13.19"	905	85.42
<b>T1808-PB-13</b>	<b>T1808-PB-3</b>	Sloped	11.42"	11.62"	13.19"	13.39"	945	85.95
<b>T1809-PB-13</b>	<b>T1809-PB-3</b>	Sloped	11.62"	11.82"	13.39"	13.59"	986	86.49
<b>T1810-PB-13</b>	<b>T1810-PB-3</b>	Sloped	11.82"	12.01"	13.59"	13.78"	1048	87.03
<b>T1810-PB-13-BO8</b>	<b>T1810-PB-3-BO8</b>	Sloped	11.82"	12.01"	13.59"	13.78"	1048	87.03
<b>T1810N-PB-13</b>	<b>T1810N-PB-3</b>	Neutral	12.01"	12.01"	13.78"	13.78"	1048	85.16
<b>T1810N-PB-13-BO8</b>	<b>T1810N-PB-3-BO8</b>	Neutral	12.01"	12.01"	13.78"	13.78"	1048	85.16
<b>T1810N-PB-13-500</b>	<b>T1810N-PB-3-500</b>	Neutral	12.01"	12.01"	13.78"	13.78"	1048	49.23
<b>T1811-PB-13</b>	<b>T1811-PB-3</b>	Sloped	12.01"	12.21"	13.78"	13.98"	1091	90.63
<b>T1812-PB-13</b>	<b>T1812-PB-3</b>	Sloped	12.21"	12.41"	13.98"	14.18"	1135	91.17
<b>T1813-PB-13</b>	<b>T1813-PB-3</b>	Sloped	12.41"	12.60"	14.18"	14.38"	1179	91.71
<b>T1814-PB-13</b>	<b>T1814-PB-3</b>	Sloped	12.60"	12.80"	14.38"	14.57"	1225	92.25
<b>T1815-PB-13</b>	<b>T1815-PB-3</b>	Sloped	12.80"	13.00"	14.57"	14.77"	1273	92.78
<b>T1816-PB-13</b>	<b>T1816-PB-3</b>	Sloped	13.00"	13.19"	14.77"	14.97"	1320	93.32
<b>T1817-PB-13</b>	<b>T1817-PB-3</b>	Sloped	13.19"	13.39"	14.97"	15.16"	1371	93.86
<b>T1818-PB-13</b>	<b>T1818-PB-3</b>	Sloped	13.39"	13.59"	15.16"	15.36"	1422	94.40
<b>T1819-PB-13</b>	<b>T1819-PB-3</b>	Sloped	13.59"	13.78"	15.36"	15.56"	1472	94.94
<b>T1820-PB-13</b>	<b>T1820-PB-3</b>	Sloped	13.78"	13.98"	15.56"	15.75"	1566	95.47
<b>T1820-PB-13-BO8</b>	<b>T1820-PB-3-BO8</b>	Sloped	13.78"	13.98"	15.56"	15.75"	1566	95.47
<b>T1820N-PB-13</b>	<b>T1820N-PB-3</b>	Neutral	13.98"	13.98"	15.75"	15.75"	1566	91.60
<b>T1820N-PB-13-BO8</b>	<b>T1820N-PB-3-BO8</b>	Neutral	13.98"	13.98"	15.75"	15.75"	1566	91.60
<b>T1820N-PB-13-500</b>	<b>T1820N-PB-3-500</b>	Neutral	13.98"	13.98"	15.75"	15.75"	1566	52.78
Channel with Ductile Iron integral edge rails 	<b>T1800N-PB-4</b> (with D.I. rails)	Neutral	10.04"	10.04"	11.82"	11.82"	633	76.28
	<b>T1800N-PB-4-500</b> (with D.I. rails) (half meter channel)							

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

Grate Part #	Description	Length (MM)	Weight	Grate Free Area (Sq. in. ft.)
T300-PGC-13-GM	Class C Galvanized Mesh Grate, 1 meter	39.37" (1000)	68.53	109.78
T300-PGC-13-GM-500	Class C Galvanized Mesh Grate, 1/2 meter	19.69" (500)	36.82	109.78
T300-PGC-3-SM	Class C Stainless Steel Mesh Grate, 1 meter	39.37" (1000)	68.53	109.78
T300-PGC-3-SM-500	Class C Stainless Steel Mesh Grate, 1/2 meter	19.69" (500)	36.82	109.78
T300-PGC-4	Class C Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	29.23	77.02
T300-PGC-4-HP	Class C Ductile Iron Heelproof Slotted Grate, 1/2 meter	19.69" (500)	29.23	21.59
T300-PGC-4-WVY	Class C Ductile Iron WAVE Grate, 1/2 meter	19.69" (500)	34.10	84.63

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

T300-PGE-4	Class E Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	42.02	77.02
T300-PGE-4-13	Class E Galvanized Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	42.02	77.02
T300-PGE-4-HP	Class E Ductile Iron Heelproof Slotted Grate, 1/2 meter	19.69" (500)	42.02	21.39
T300-PGE-4-ADA	Class E Ductile Iron Longitudinal Slotted Grate, 1/2 meter	19.69" (500)	63.80	19.07
T300-PGE-4-ADA-13	Class E Galvanized Ductile Iron Longitudinal Slotted Grate, 1/2 meter	19.69" (500)	63.80	19.07
T300-PGE-3-SBG	Class E Stainless Steel Bar Grate, 1 meter	39.37" (1000)	100.00	73.63
T300-PGE-3-SBG-500	Class E Stainless Steel Bar Grate, 1/2 meter	19.69" (500)	60.00	73.63
T300-SCE-4	Class E Ductile Iron Solid Cover, 1/2 meter	19.69" (500)	66.00	-

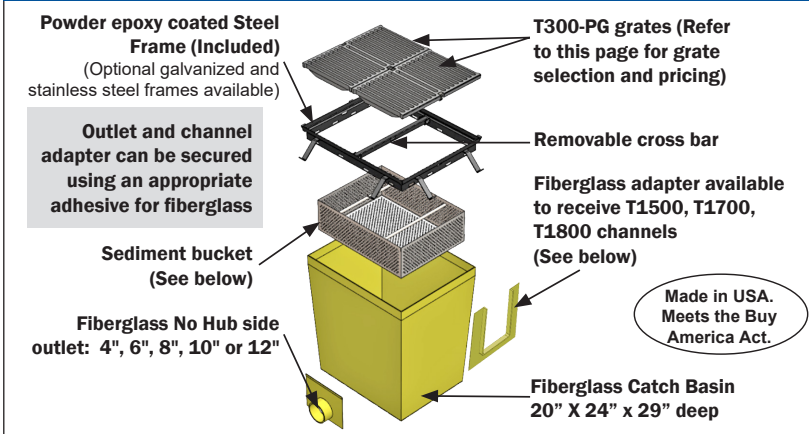
**LOAD CLASS F GRATES - EN 1433 - 202,320 lbs., 900 Kn, 4,177 P.S.I.**

T300-PGF-4-PX	Class F Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	48.23	72.41
T300-PGF-4-PX-13	Class F Galvanized Ductile Iron Slotted Grate, 1/2 meter	19.69" (500)	48.23	72.41
T300-PGF-4-B	Class F Ductile Iron 4 Bolt Slotted Grate, 1/2 meter	19.69" (500)	48.23	72.41
T300-PGF-4-B-13	Class F Galvanized Ductile Iron 4 Bolt Slotted Grate, 1/2 meter	19.69" (500)	48.23	72.41

- See page 10 for explanation of ADA compliant grates
- See page 10 for explanation of Heelproof compliant grates

Black acid resistant epoxy coated ductile iron grates (-11B) are available. Same price as the -13 grates.

**T2000-CB2024 - 20" x 24" Catch Basin for T1500, T1700 & T1800 Channels**



**Suggested adhesives for fiberglass**

**GORILLA Construction Adhesive:**  
Heavy Duty, 9 fluid ounces, Cartridge, White

**LOCTITE Construction Adhesive:**  
Power Grab, 10 fluid ounces, Cartridge, White

MODEL #
<b>T2000-CB2024</b> (includes powder epoxy coated steel frame. Grates not included)
<b>T2000-CB2024-13</b> (includes galvanized steel frame. Grates not included)
<b>T2000-CB2024-3</b> (includes stainless steel frame. Grates not included)

Catch basin with extension riser. Overall depth of 55"
<b>T2000-CB2024-55</b> (includes powder epoxy coated steel frame. Grates not included)
<b>T2000-CB2024-55-13</b> (includes galvanized steel frame. Grates not included)
<b>T2000-CB2024-55-3</b> (includes stainless steel frame. Grates not included)

OUTLET CONNECTIONS
T2000-CB2024-PEO4 - 4"
T2000-CB2024-PEO6 - 6"
T2000-CB2024-PEO8 - 8"
T2000-CB2024-PEO10 - 10"
T2000-CB2024-PEO12 - 12"

CHANNEL ADAPTERS
T1500-CB2024-ADAPT
T1700-CB2024-ADAPT
T1800-CB2024-ADAPT

OPTIONAL VARIATIONS
<b>MODEL #</b>
Powder epoxy coated steel sediment bucket (Part # T2000-CB2024-SB)
Stainless Steel Sediment Bucket (Part # T2000-CB2024-SB-3)

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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.

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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.

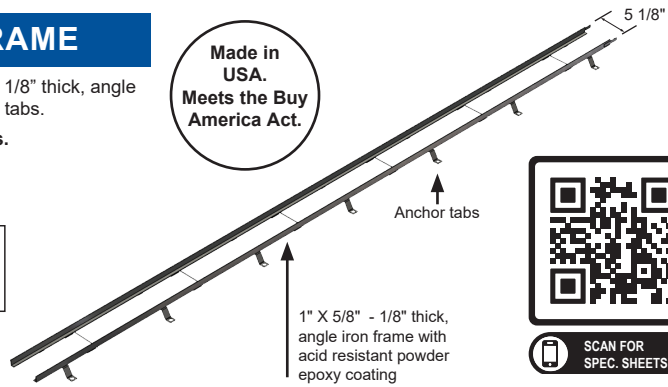
Frames can accommodate all T100 Series ClipFix self locking grates.

**Note:** Must order in 19.69" (1/2 meter) long increments.  
9.84 foot long (3 meter) sections are standard.



Frames are  
manufactured  
per order.

Made in  
USA.  
Meets the Buy  
America Act.



SCAN FOR  
SPEC. SHEETS

Model Number	Description
T1400-F	4" internal width, powder epoxy coated steel frame
T1400-F-13	4" internal width, galvanized steel frame
T1400-F-EC	4" internal width, powder epoxy coated steel end frame, with two securing screws
T1400-F-EC-13	4" internal width, galvanized steel end frame, with two securing screws

**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.

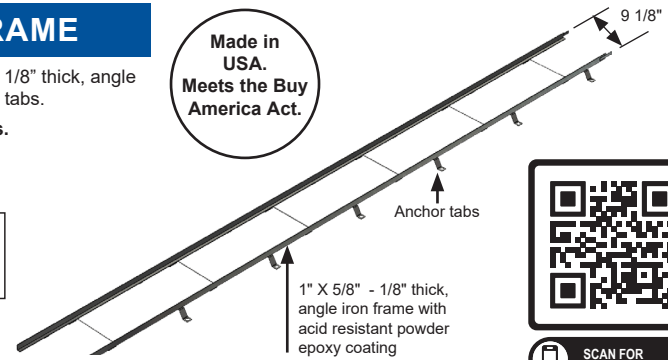
Frames can accommodate all T200 Series ClipFix self locking grates.

**Note:** Must order in 19.69" (1/2 meter) long increments.  
9.84 foot long (3 meter) sections are standard.



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manufactured  
per order.

Made in  
USA.  
Meets the Buy  
America Act.



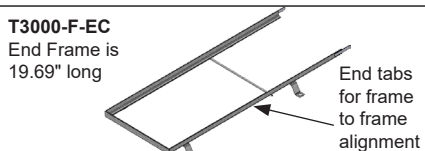
SCAN FOR  
SPEC. SHEETS

Model Number	Description
T2000-F	8" internal width, powder epoxy coated steel frame
T2000-F-13	8" internal width, galvanized steel frame
T2000-F-EC	8" internal width, powder epoxy coated steel end frame, with two securing screws
T2000-F-EC-13	8" internal width, galvanized steel end frame, with two securing screws

**T3000-F – 12" INTERNAL WIDTH, FRAME**

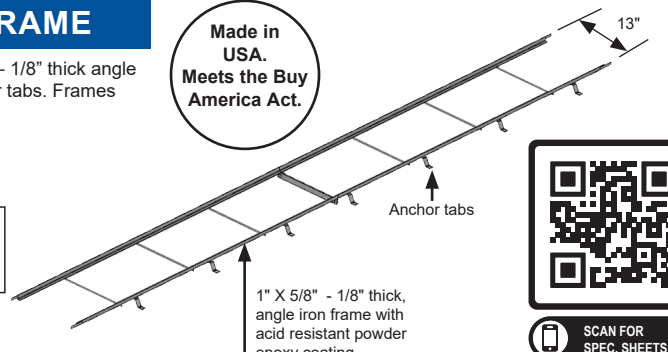
**SPECIFICATION:** MIFAB® Series T3000-F, 12" internal width, 1 x 5/8" – 1/8" thick angle iron Frame with acid resistant powder epoxy coating and 1" x 3" anchor tabs. Frames can accommodate all T300 Series ClipFix self locking grates.

**Note:** Must order in 19.69" (1/2 meter) long increments.  
9.84 foot long (3 meter) sections are standard.



Frames are  
manufactured  
per order.

Made in  
USA.  
Meets the Buy  
America Act.



SCAN FOR  
SPEC. SHEETS

Model Number	Description
T3000-F	12" internal width, powder epoxy coated steel frame
T3000-F-13	12" internal width, galvanized steel frame
T3000-F-EC	12" internal width, powder epoxy coated steel end frame, with two securing screws
T3000-F-EC-13	12" internal width, galvanized steel end frame, with two securing screws

Note: Custom designs are available. Contact MIFAB®

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## NEUTRAL TRENCH DRAIN FLOW RATES VS. SLOPED TRENCH DRAIN FLOW RATES

**Note: See page 24 for the comparison calculations.**

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® T1520N 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® T1520N 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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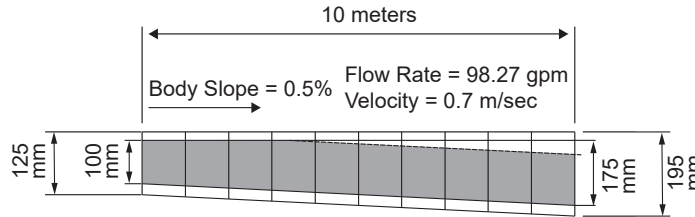
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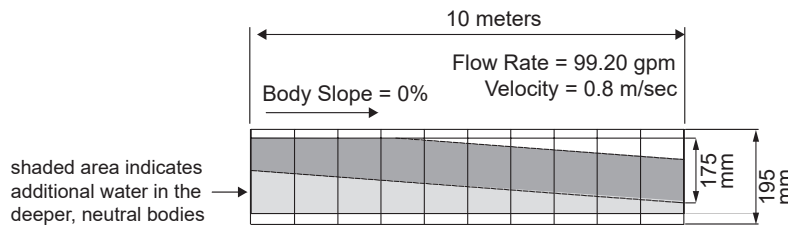
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## FLOW RATE COMPARISON CALCULATION ACCORDING TO MANNING & STRICKLER

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

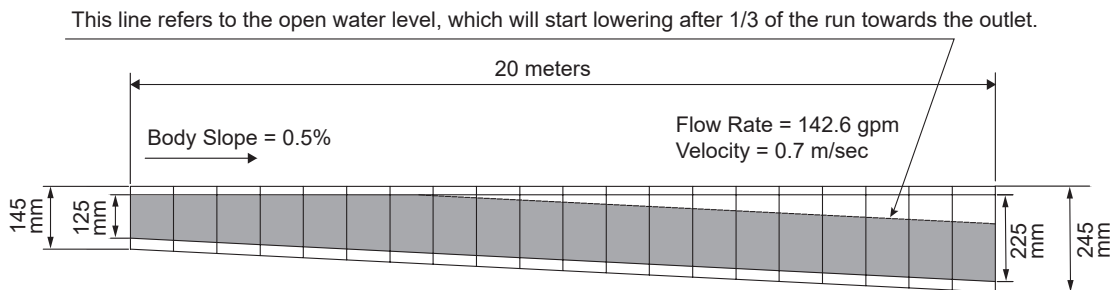


**Figure 1-A    Typical Sloped Trench Drain from Others**

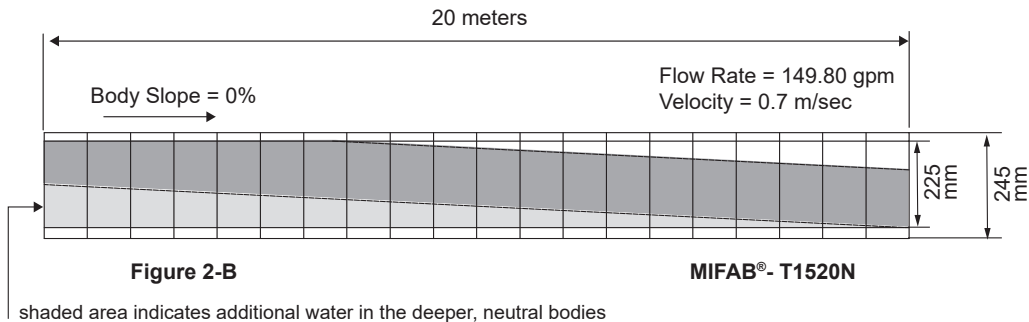


**Figure 2-A    MIFAB®- T1510N**

**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®- T1520N**

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

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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


**T1400-SHV**  
Shovel head to clean out debris from channels



**Grate lifting key T100-KEY**



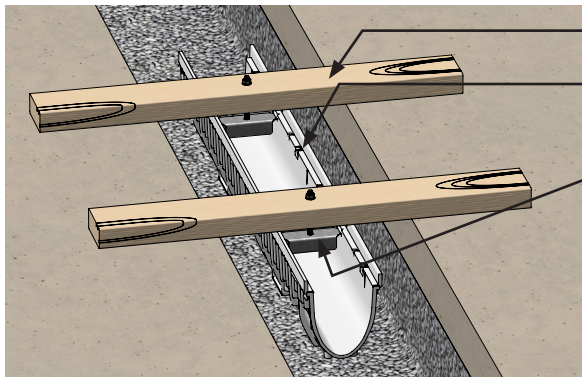
**ANTI-VANDALISM LOCKING DEVICE FOR ALL GRATES**



<b>T100-VP</b> (4" internal width)
<b>T200-VP</b> (8" internal width)

(Two pieces required per meter)

**SUSPENDED SLAB INSTALLATION**



Support bars (by others)

MIFAB® T1400 GRP trench drain channel illustrated

Brackets to bolt support bars for suspension of the trench drain channels within the slab. Available with T1400, T2000 and T3000 GRP channels.

<b>Part #</b>
Part # T1400-SUSP
Part # T2000-SUSP
Part # T3000-SUSP

**ANTI-VANDALISM LOCKING DEVICE INSTALLATION INSTRUCTIONS**



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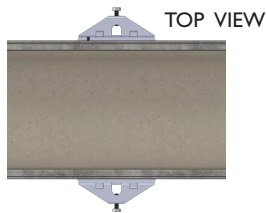
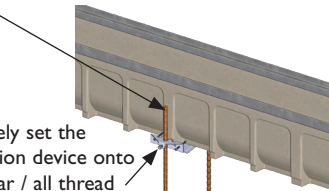
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## INSTALLATION GUIDELINES

### INSTALLATION DEVICE INSTRUCTIONS

1. Install (Hammer) the rebar / all thread into the excavation where the trench is to be laid.

2. Loosely set the installation device onto the rebar / all thread as shown. Go back and set them all to the correct height taking finish floor elevations into consideration.

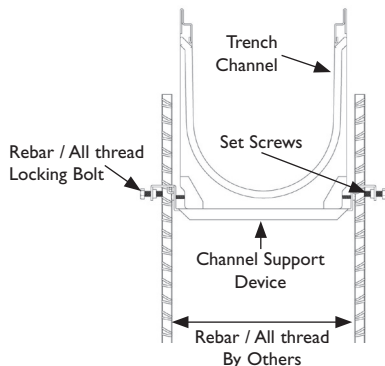


3. The installation devices will support the channel and two are required per meter section.



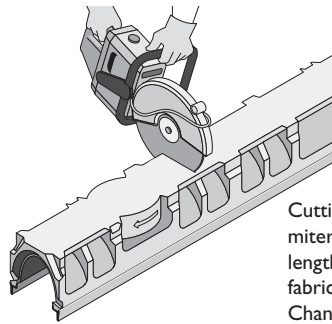
4. Drill the four screws over the side profile to secure channel. This will minimize floating during the concrete encasement pour.

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



### ON-SITE FABRICATIONS

When cutting channels and/or grates, gloves, protective eye wear and respirator or mask should be worn.



Cutting channels is required to form miters, T-junctions and non-standard lengths. Most fabrications should be completed on site. Channels can be cut with a masonry or diamond blade. Grates should be cut with a suitable metal cutting blade.



SCAN ME

**FOR INSTALLATION INSTRUCTIONS**

### TRENCH SECTION CONNECTIONS

An appropriate adhesive should be used to bond cut surfaces together.

Apply adhesive to a cut end and place the next successive channel against the adhesive and allow to dry. Sealants are not intended to bond products together. Adhesives are intended for that.

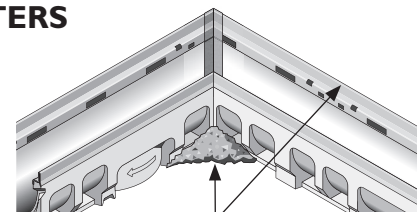
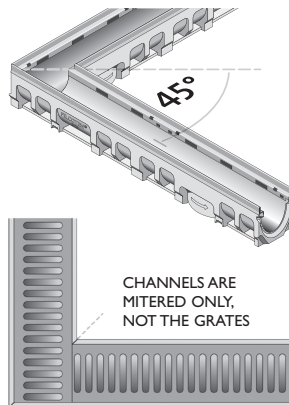
If corrosive liquids are conveyed in the trench, the joints should be properly sealed.

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.

SikaFlex IA and Sonneborn NP-I 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.

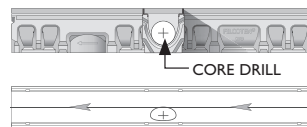
### MITERS



USE INSTALLATION DEVICES OR ALTERNATIVELY, USE A CONCRETE PATTY TO SUPPORT THE MITERED CHANNEL DURING THE FINAL POUR

Mitered joints are formed by cutting channels to the required angle and butting together. For 90° angle, miter cuts of 45° are required.

### T-JUNCTIONS



CORE OR STITCH DRILL ON SIDE OF CHANNEL

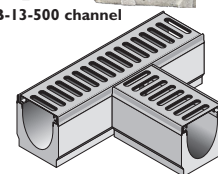
T-junctions are formed when an opening is cut into the side of one channel and another channel is butted up to this opening.

On full meter channel, mark the area in the channel wall to be removed by butting the channels together and by marking the interior profile of the channel.

**The edge rail should be left intact to provide additional strength and seating for grate.**



T1500N-PB-13-500 channel



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## INSTALLATION GUIDELINES

### CATCH BASIN CONNECTIONS



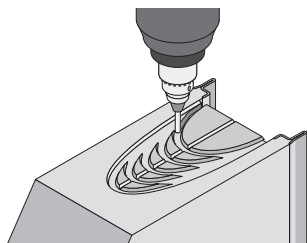
SCAN ME

FOR  
INSTALLATION  
INSTRUCTIONS

**NOTE: THE 8" AND 12" CATCH BASINS REQUIRE AN 8" FLEXIBLE COUPLING (MIFAB # MI-FLEX-800) IF CAST IRON SOIL PIPE OR PVC IS USED.**

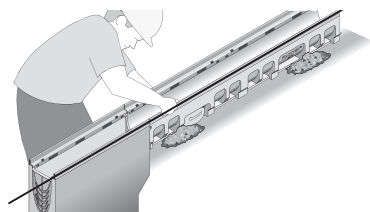
#### Catch Basin Cut-out

- Identify and mark the area to be removed
- Use a stitch drill or angle grinder with masonry cutting disc / wheel to cut the opening for the required pipe connection. (Bracing may be necessary).



Use a grinder to dress or enlarge corners for proper fitting.

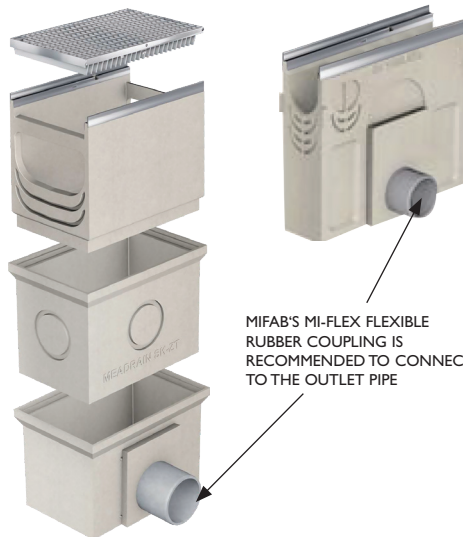
3. Insert the channel into the socket and seal using an appropriate flexible sealant / adhesive.



\* Please ensure installation as per direction of the arrows on outside of channel.

If corrosive liquids are transported in the trench, ensure the flexible sealant is chemically resistant.

1. All catch basins come with a pipe stub
2. Use the MIFAB MI-FLEX coupling to connect outlet to waste line.



MIFAB'S MI-FLEX FLEXIBLE RUBBER COUPLING IS RECOMMENDED TO CONNECT TO THE OUTLET PIPE

## PIPE CONNECTIONS

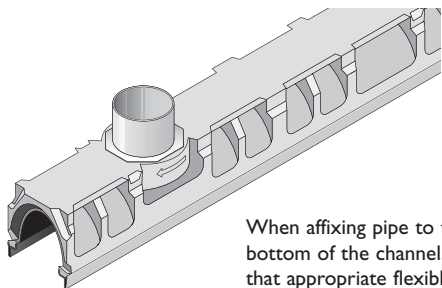


**ATTENTION: MIFAB RECOMMENDS USE OF PROTECTIVE GLASSES AND RESPIRATORY PROTECTION WHEN CUTTING AND DRILLING POLYMER CONCRETE CHANNELS.**



**Note: Always start your trench channel installation from the outlet and work upstream.**

**Note: MIFAB offers outlet channels with the outlet already cast into the bottom. The method below would be for bottom outlet locations that do not coincide with our standard outlet locations.**



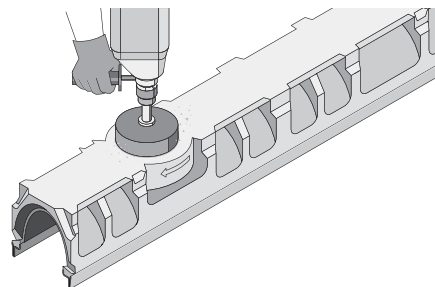
When affixing pipe to the bottom of the channel, ensure that appropriate flexible sealant / adhesive is used.

**CAUTION: DO NOT HAMMER DIRECTLY ON MATERIAL TO MAKE PENETRATION. THIS MAY CAUSE SEVERE CRACKING OF THE MATERIAL.**



#### Removal of cut-out, or cut hole:

1. Identify and mark the area to be removed.
2. Remove the drill-out. Use a stitch drill or hole saw to cut a series of holes for the required pipe connection. (Bracing may be necessary).



#### Core Drill

Using the correct diamond core drill size, remove the channel/catch basin wall/ base to fit the pipe.

- Turn the channel upside down.
- Make the required penetration by either core drilling or stitch drilling the needed opening.
- A grinder may be used to dress or enlarge the hole for proper pipe insertion.
- The no-hub bottom outlet is then attached to the underside of the channel using the appropriate flexible sealant / adhesive.

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## POLYURETHANE SEALANT FOR 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.

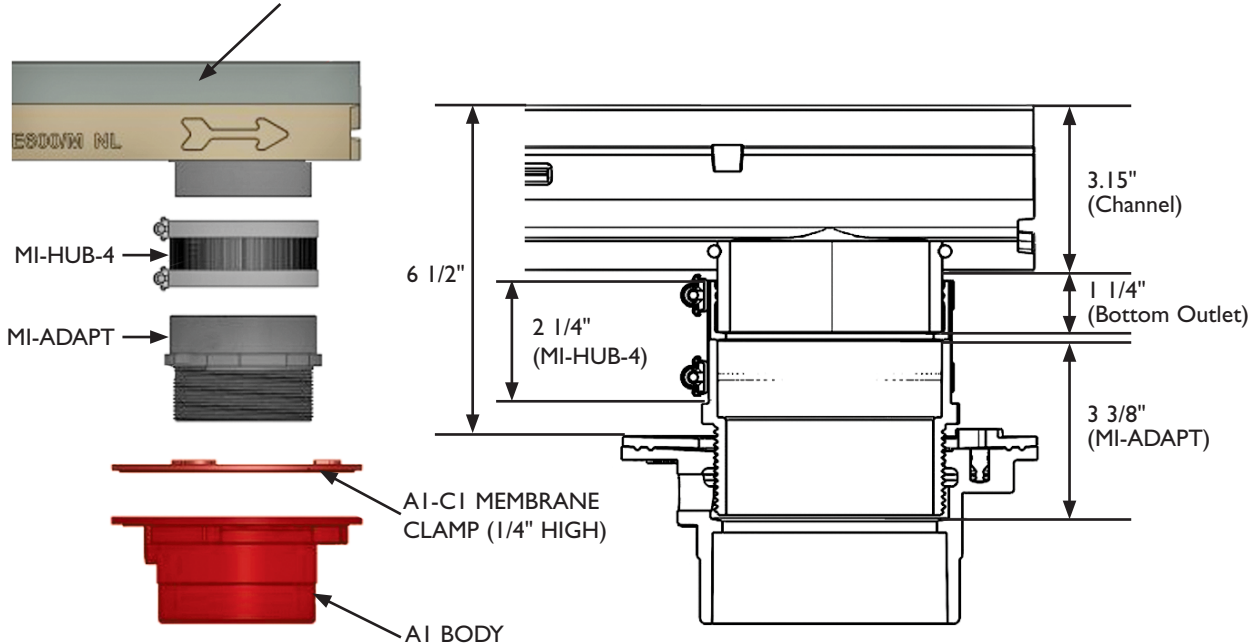
Do not use silicone and / or an adhesive (thin set glue) as a sealant with the MIFAB® trench drain channels.



T1400-SIKA

## INSTALLATION DETAIL FOR SHALLOW T1560 CHANNELS

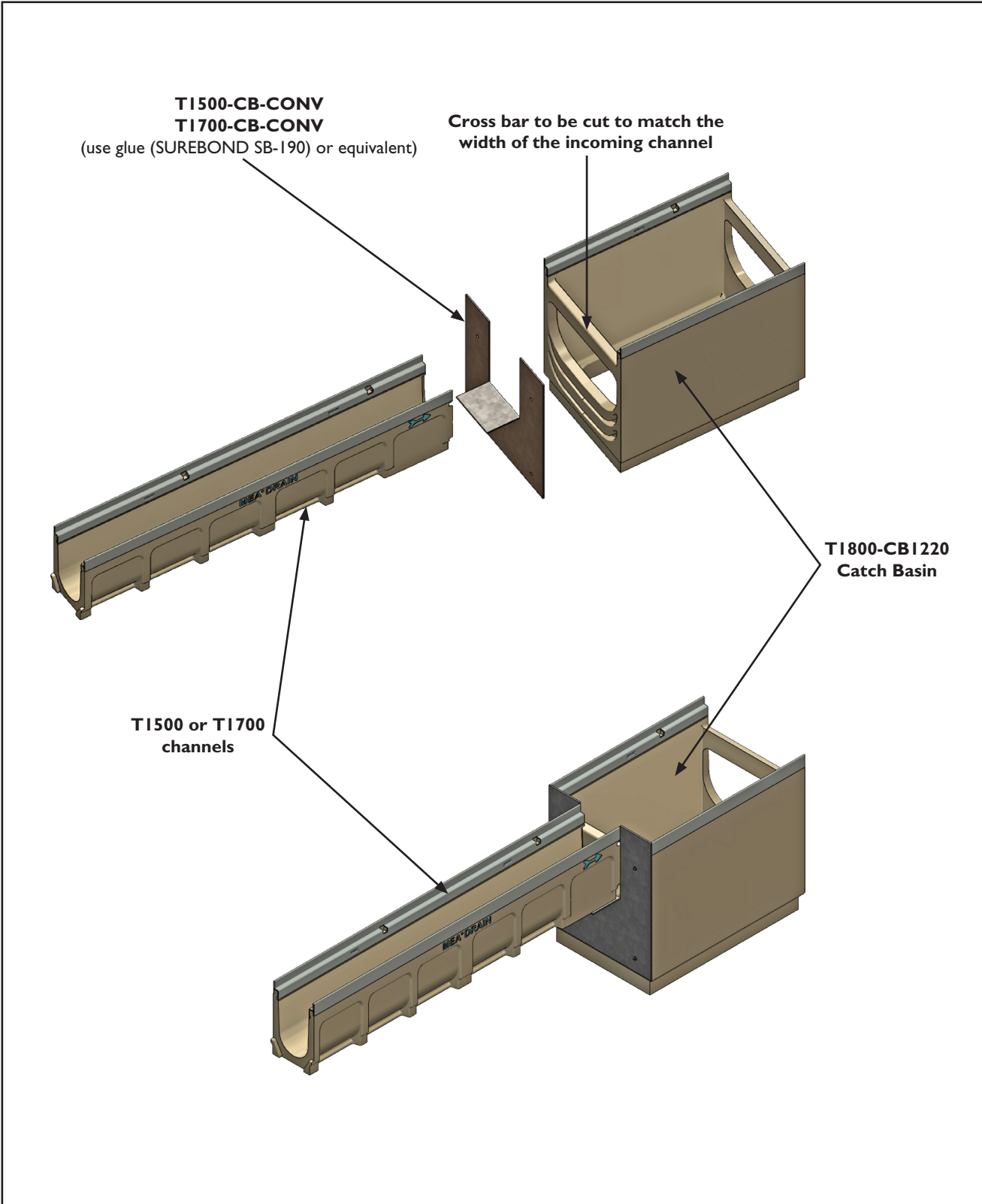
T1560 channel with bottom outlet reduced to 1 1/4"



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CATCH BASIN CONNECTION PLATE



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## CHEMICAL RESISTANCE CHART

These recommendations are for guidance only. They are based upon information compiled from resin plastic manufacturers. Customers are advised to test samples of polymer concrete to ensure suitability. Test samples are available free of charge from MIFAB®.

If MIFAB® standard products are unable to provide adequate chemical resistance, contact MIFAB® 1-800-465-2736 for a suitable product solution.

Chemical	Max. conc.	Short time exposure 72 hours	Long time exposure 42 days
Acetic Acid	30%	✓	✗
Acetone	10%	✓	✗
Ammonia	10%	✓	✗
Aniline	100%	✓	✗
Aniline in Ethyl Alcohol	10%	✓	✓
Benzene	100%	✓	✗
Boric Acid	100%	✓	✓
Butyric Acid	25%	✓	✓
Butyl Alcohol	100%	✓	✓
Calcium Chloride	100%	✓	✓
Calcium Hydroxide	100%	✓	✗
Caster Oil	100%	✓	✓
Chloric Acid	5%	✓	✗
Chromic Acid	5%	✓	✓
Citric Acid	100%	✓	✓
Diesel Fuel	100%	✓	✓
Ethanol	100%	✓	✗
Ethlendiamine	100%	✓	✓
Ethyl Acetate	100%	✓	✗
Ferrous Sulfate	30%	✓	✓
Fluoralic Acid	10%	✓	✓
Formaldehyde	35%	✓	✓
Formic Acid	10%	✓	✗
Fuel Oil	100%	✓	✓
Gasoline	100%	✓	✓
n-Heptane	100%	✓	✓
n-Hexane	100%	✓	✓
Hydraulic Oil	100%	✓	✓
Hydrochloric Acid	10%	✓	✓

Chemical	Max. conc.	Short time exposure 72 hours	Long time exposure 42 days
Hydrofluoric Acid	5%	✓	✗
JP4	100%	✓	✓
JP8	100%	✓	✓
Lactic Acid	10%	✓	✓
Methanol	5%	✗	✗
Methyl Amine	100%	✓	✗
Methyl Ethyl Ketone	100%	✓	✗
Mineral Oil SAE5W50	100%	✓	✓
Monochlor Benzene	0.05%	✗	✗
Monochloroacetic Acid	10%	✓	✓
Nitric Acid	10%	✓	✗
n-Nonane	100%	✓	✓
Iso-Octane	100%	✓	✗
Oxalic Acid	100%	✓	✓
Phenol	100%	✓	✗
Phosphoric Acid	10%	✓	✓
Potassium Hydroxide	10%	✗	✗
Sodium Acetate	100%	✓	✗
Sodium Carbonate	20%	✓	✓
Sodium Chloride	100%	✓	✓
Sodium Hydroxide	15%	✓	✗
Sodium Hypochloric	5%	✓	✓
Sulfuric Acid	40%	✓	✓
Tetrafluoroborsaur	20%	✓	✗
Toluene	100%	✓	✗
Trichloroethylene	100%	✗	✗
Triethylamine	100%	✓	✓
Xylene	100%	✓	✗

Note: Maximum operating temperature of 180°F (82°C)

**CHEMICAL RESISTANCE:** MIFAB® Drain channel bodies are highly resistant to chemical attack and, with the appropriate grate, can be used in most environments where everyday acids and dilute alkalis are encountered.







**IMPORTANT CONSIDERATIONS FOR CHEMICAL ENVIRONMENTS:** When reviewing potential applications of trench drains in chemical environments, the following issues should be considered:






1. Type(s) & mixture of chemical(s).
2. Concentration percentages.
3. Contact time with trench system.
4. Temperatures of chemicals flowing into the trench drain. 180°F (82°C) max.
5. Flushing system employed to clear chemicals from the system.
6. Cleaning agents should be checked for compatibility with trench materials.
7. MIFAB® test samples can be used for final determination of chemical resistance.
8. Grate, locking mechanism, edge rail, outlet and sediment bucket materials should be checked for chemical resistance.
9. Check sealant for compatibility, if applicable.

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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.**

<b>EN1433 / DIN19580</b>		
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.

<b>ANSI A112.21.1M</b>		
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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**PROJECT REFERENCES**



**TOWN CENTRES AND PEDESTRIAN AREAS**



**AIRPORT**  
Product: T1800 (12") with Load Class F Ductile Iron Slotted Grates



**PARKING GARAGE**  
Product: T1700 (8") with Load Class C Galvanized Mesh Grates



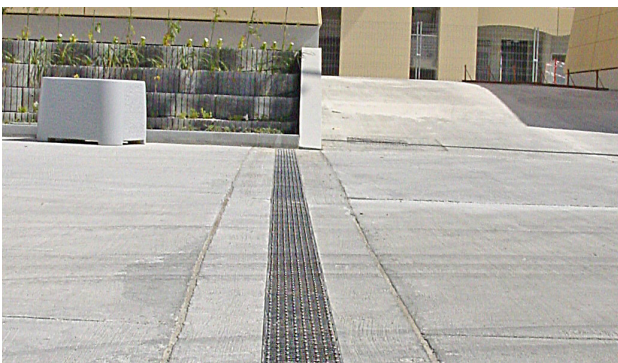
**SHOPPING PLAZA**  
Product: T1700 (8") with Load Class B Stainless Steel Longitudinal Grates



**OFFICE PLAZA**  
Product: T1500 (4") with Load Class C Stainless Steel Slotted Grates



**PROMENADE AREA**  
Product: T1700 with (8") Load Class E Stainless Steel Paverslot Grates



**PARKING AREAS**



**PEDESTRIAN AREAS**

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**CROSS REFERENCE**

MIFAB®	DESCRIPTION	PAGE NO.	ACO / Jay R. Smith	MIFAB®	DESCRIPTION	PAGE NO.	ACO / Jay R. Smith
T1560-13	0.5% sloped shallow bodies, 4" internal width with integral galvanized steel rail	11	H100/9832-100	T100-PGC-3-FP-500	Stainless steel perforated grating, half meter long, Load Class C	13	466D 12655 Class C JRS 9870-465-SSP0.5
T1560-3	0.5% sloped shallow bodies, 4" internal width with integral stainless steel rail	11	HS100	T100-PGC-HPP	Plastic slotted grating, half meter long, Load Class C	13	494D 99575 Class A JRS 9870-494-PADAB
T1500-13	0.5% sloped bodies, 4" internal width with integral galvanized steel rail	12	K100/9895	T100-PGC-13-SD	Galvanized steel paverslot grating, one meter long, Load Class C	13	441/9835
T1500-3	0.5% sloped bodies, 4" internal width with integral stainless steel rail	12	KS100/9660-CLG	T100-PGC-13-SD-500	Galvanized steel paverslot grating, half meter long, Load Class C	13	442/ 9835-.5
T100-PGA-HPP-BLK, T100-PGA-HPP-GRY	Plastic longitudinal grating, half meter long, Load Class A	13	494D, 99575 9870-494-PADAB 495D, 99576 9870-494-PADAG	T100-PGC-3-SD	Stainless steel paverslot grating, one meter long, Load Class C	13	443 138045 Class C
T100-PGA-13-FS	Galvanized steel slotted grating, one meter long, Load Class A	13	420D 12610 Class A JRS 9870-420-G	T100-PGC-3-SD-500	Stainless steel paverslot grating, half meter long, Load Class C	13	444 138046 Class C
T100-PGA-13-FS-500	Galvanized steel slotted grating, half meter long, Load Class A	13	421D 12611 Class A JRS 9870-420-G0.5	T100-PGE-4-ADA	Ductile iron bar grating, half meter long, Load Class E, longitudinal slotted	13	478Q 03314 Class E JRS 9870-478-ADA
T100-PGA-13-FP	Galvanized steel perforated grating, one meter long, Load Class A	13	410D 12666 Class A JRS 9870-410-GP	T100-PGE-4	Ductile iron slotted grating, half meter long, Load Class E	13	461Q JRS 9870-461-M
T100-PGA-13-FP-500	Galvanized steel perforated grating, half meter long, Load Class A	13	412D 12667 Class A JRS 9870-410-GP0.5	T100-PGF-4	Ductile iron slotted grating, half meter long, Load Class F	13	S100K/ 96082
T100-PGA-3-FS	Stainless steel slotted grating, one meter long, Load Class A	13	450D 12640 Class A JRS 9870-450-SS	T1700-13	0.5% sloped bodies, 8" internal width with integral galvanized steel rail	16	K200/9896-G
T100-PGA-3-FS-500	Stainless steel slotted grating, half meter long, Load Class A	13	452D 12641 Class A JRS 9870- 450-SS0.5G	T1700-3	0.5% sloped bodies, 8" internal width with integral stainless steel rail	16	KS200/9896-SS
T100-PGA-3-FP	Stainless steel perforated grating, one meter long, Load Class A	13	451D 12664 Class A JRS 9870-451-SSPA	T200-PGC-4	Ductile iron slotted grating, half meter long, Load Class C	17	660D 142177 Class C
T100-PGA-3-FP-500	Stainless steel perforated grating, half meter long, Load Class A	13	453D 12665 Class A JRS 9870-451-SSPA0.5	T200-PGC-3-SM	Stainless steel mesh grating, one meter long, Load Class C	17	665D 138082 Class C
T100-PGC-13-FS	Galvanized steel slotted grating, one meter long, Load Class C	13	425D 12614 Class C JRS 9870- 425-GHD	T200-PGC-3-SM-500	Stainless steel mesh grating, half meter long, Load Class C	17	666D 138083 Class C 9880-666-SSP
T100-PGC-13-FS-500	Galvanized steel slotted grating, half meter long, Load Class C	13	426D 12615 Class C JRS 9870-425-GHD0.5	T200-PGE-4-ADA	Ductile iron, longitudinal grating, half meter long, Load Class E	17	678Q 138129 Class E JRS 9880-678-MADA
T100-PGC-13-GM	Galvanized steel mesh grating, one meter long, Load Class C	13	405D 132880 Class C JRS 9870-405-GM	T200-PGE-4	Ductile iron slotted grating, half meter long, Load Class E	17	661Q 10351 Class E JRS 9880-661-M
T100-PGC-13-GM-500	Galvanized steel mesh grating, half meter long, Load Class C	13	406D 132881 Class C JRS 9870-405-GM0.5	T200-PGF-4	Ductile iron slotted grating, half meter long, Load Class F	17	S200K / 2449
T100-PGC-13-FP	Galvanized steel perforated grating, one meter long, Load Class C	13	411D 12656 Class C JRS 9870-411-GPAD	T1800	12" internal width with integral ductile iron rail, Load Class F	20	S300K
T100-PGC-13-FP-500	Galvanized steel perforated grating, half meter long, Load Class C	13	413D 12657 Class C JRS 9870-411-GPAD0.5	T1800-13	0.5% sloped bodies, 12" internal width with integral galvanized steel rail	20	K300/9897
T100-PGC-3-FS	Stainless steel slotted grating, one meter long, Load Class C	13	455D 12644 Class C JRS 9870-455-SSHD	T1800-3	0.5% sloped bodies, 12" internal width with integral stainless steel rail	20	KS300/9897-SS
T100-PGC-13-FP-500	Stainless steel slotted grating, half meter long, Load Class C	13	457D 12645 Class C JRS 9870-455-SSHD0.5	T300-PGC-13-GM	Galvanized steel mesh grating, meter long, Load Class C	21	805D 13819 Class C JRS 9890-805-GM
T100-PGC-3-SM	Stainless steel mesh grating, one meter long, Load Class C	13	430D 132882 Class C JRS 9870-430-SSM				
T100-PGC-3-SM-500	Stainless steel mesh grating, half meter long, Load Class C	13	431D 132883 Class C JRS 9870-430-SSM0.5				
T100-PGC-3-FP	Stainless steel perforated grating, one meter long, Load Class C	13	465D 12654 Class C JRS 9870-465-SSP				

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**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.

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**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.

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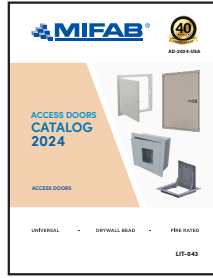
### MIFAB CATALOGS



**MPB-2025-USA**  
SPECIFICATION  
DRAINAGE  
PRODUCTS  
(LIT-067)



**CLPB-2025**  
LIGHT COMMERCIAL  
PRODUCTS  
(LIT-048)



**AD-2024-USA**  
ACCESS DOORS  
(LIT-043)



**BEECO-2025**  
BACKFLOW PREVENTERS,  
AND ACCESSORIES  
(LIT-071)



**NH-2022-06**  
NO HUB COUPLINGS  
(LIT-044)



**TDFC-2025**  
POLYMER CONCRETE  
TRENCH DRAIN  
PRODUCTS  
(LIT-076)



**TD-2025**  
GRP & STEEL  
TRENCH DRAIN  
PRODUCTS  
(LIT-046)



**TDS-2025**  
SHOWER DRAINS  
(LIT-077)



**TDSS-2025**  
STAINLESS STEEL  
TRENCH DRAINS  
(LIT-072)



**ROOFGUARD-2020**  
ROOFGUARD ROOF  
DOMES  
(LIT-058)



**C-PORT-2023**  
ROOFTOP RUBBER  
PIPE SUPPORTS  
(LIT-047)



**DB-2024**  
DIALYSIS BOXES  
(LIT-070)



**HYDROMAX-2020**  
SIPHONIC ROOF  
DRAINAGE SYSTEMS  
(LIT-082)



**INT-2025**  
INTERCEPTORS & ACID  
NEUTRALIZATION TANKS  
(LIT-095)



**TSP-2024**  
TRAP SEAL  
PRIMERS  
(LIT-062)



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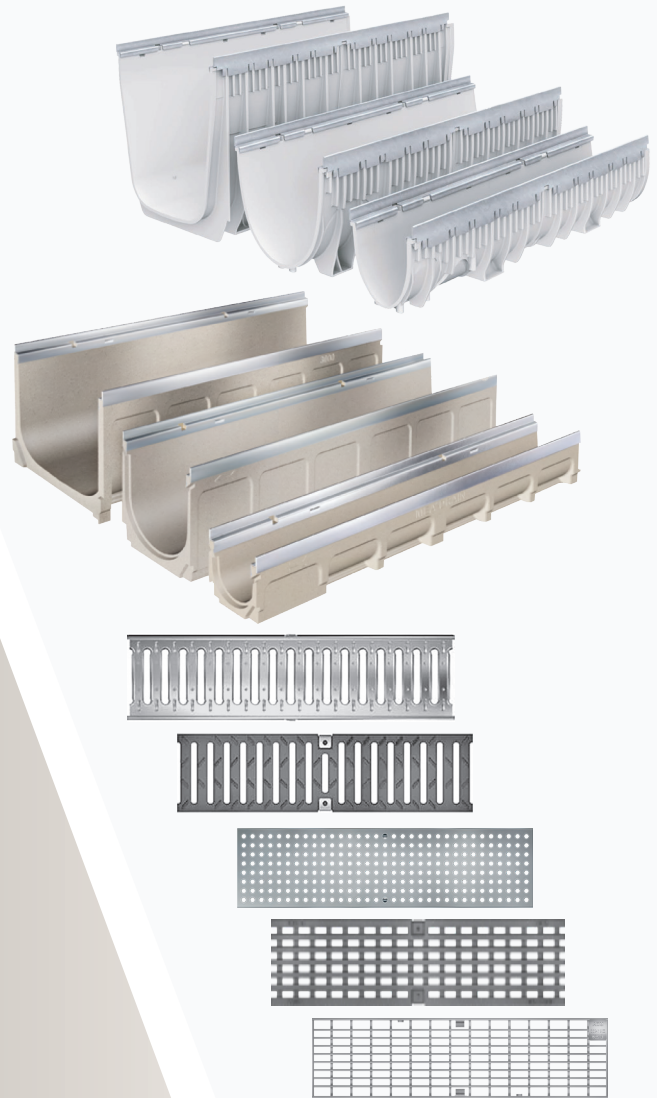
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**TD-2025-CONCRETE**

# TRENCH DRAIN CATALOG 2025

GRP & POLYMER CONCRETE  
TRENCH DRAIN PRODUCTS



**4", 8", 12" INTERNAL WIDTHS - SHALLOW CHANNELS - CATCH BASINS  
(6", 10" AND 14" OVERALL WIDTHS)**

**LIT-086**