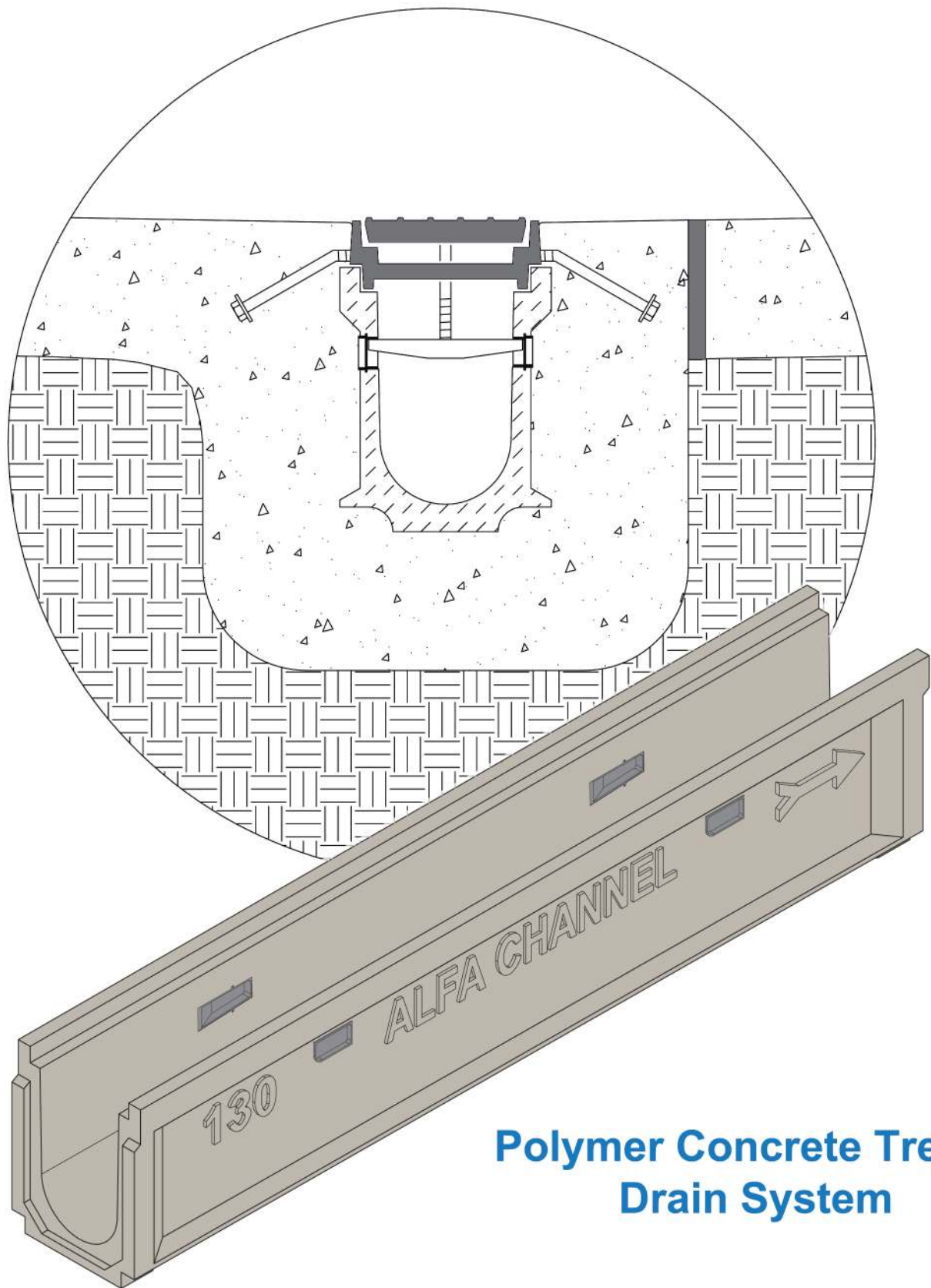
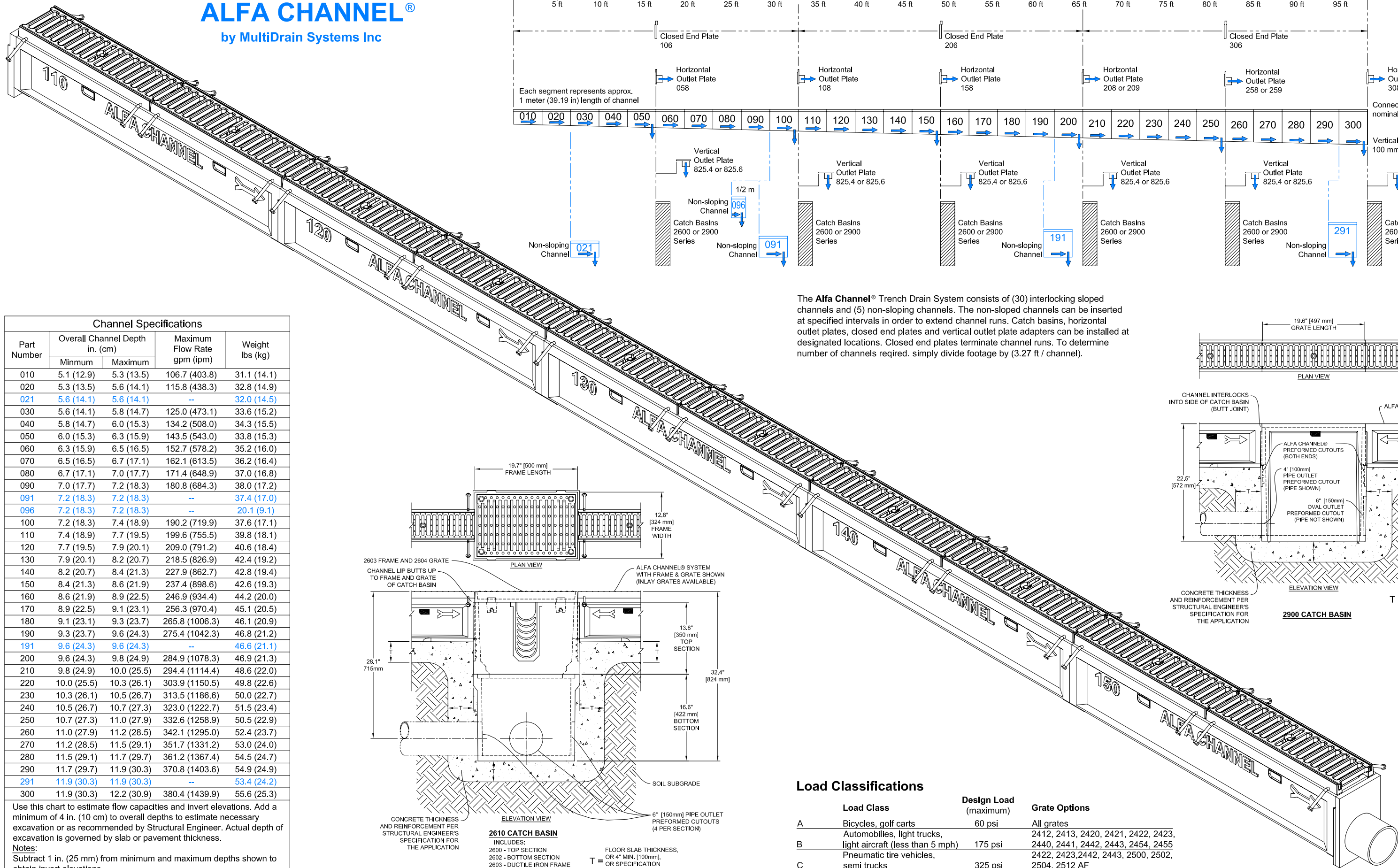


ALFA CHANNEL®

by MultiDrain Systems, Inc.



**Polymer Concrete Trench
Drain System**

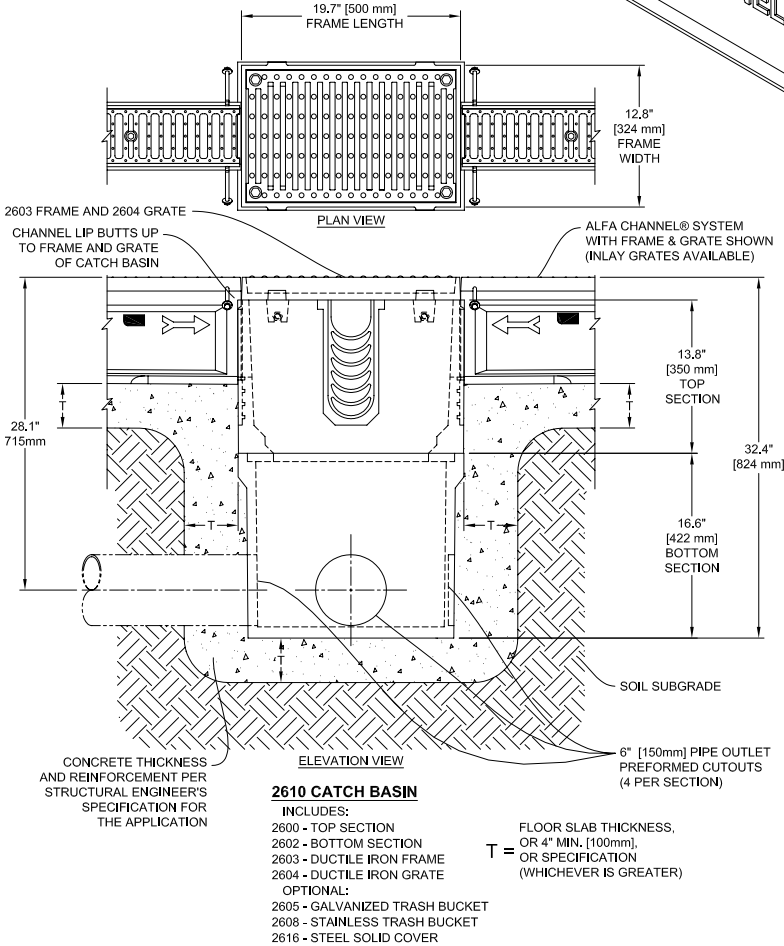


ALFA CHANNEL[®]
by MultiDrain Systems Inc

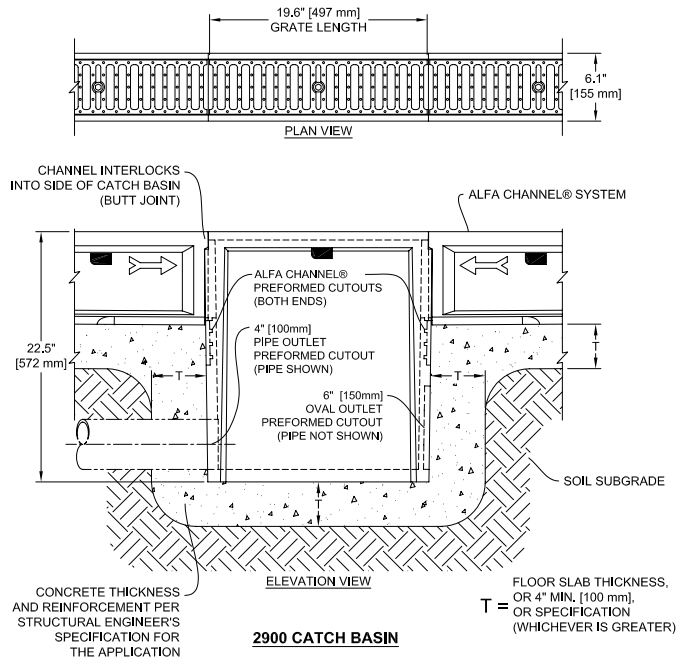
Channel Specifications				
Part Number	Overall Channel Depth in. (cm)		Maximum Flow Rate gpm (ipm)	Weight lbs (kg)
	Minum	Maximum		
010	5.1 (12.9)	5.3 (13.5)	106.7 (403.8)	31.1 (14.1)
020	5.3 (13.5)	5.6 (14.1)	115.8 (438.3)	32.8 (14.9)
021	5.6 (14.1)	5.6 (14.1)	--	32.0 (14.5)
030	5.6 (14.1)	5.8 (14.7)	125.0 (473.1)	33.6 (15.2)
040	5.8 (14.7)	6.0 (15.3)	134.2 (508.0)	34.3 (15.5)
050	6.0 (15.3)	6.3 (15.9)	143.5 (543.0)	33.8 (15.3)
060	6.3 (15.9)	6.5 (16.5)	152.7 (578.2)	35.2 (16.0)
070	6.5 (16.5)	6.7 (17.1)	162.1 (613.5)	36.2 (16.4)
080	6.7 (17.1)	7.0 (17.7)	171.4 (648.9)	37.0 (16.8)
090	7.0 (17.7)	7.2 (18.3)	180.8 (684.3)	38.0 (17.2)
091	7.2 (18.3)	7.2 (18.3)	--	37.4 (17.0)
096	7.2 (18.3)	7.2 (18.3)	--	20.1 (9.1)
100	7.2 (18.3)	7.4 (18.9)	190.2 (719.9)	37.6 (17.1)
110	7.4 (18.9)	7.7 (19.5)	199.6 (755.5)	39.8 (18.1)
120	7.7 (19.5)	7.9 (20.1)	209.0 (791.2)	40.6 (18.4)
130	7.9 (20.1)	8.2 (20.7)	218.5 (826.9)	42.4 (19.2)
140	8.2 (20.7)	8.4 (21.3)	227.9 (862.7)	42.8 (19.4)
150	8.4 (21.3)	8.6 (21.9)	237.4 (898.6)	42.6 (19.3)
160	8.6 (21.9)	8.9 (22.5)	246.9 (934.4)	44.2 (20.0)
170	8.9 (22.5)	9.1 (23.1)	256.3 (970.4)	45.1 (20.5)
180	9.1 (23.1)	9.3 (23.7)	265.8 (1006.3)	46.1 (20.9)
190	9.3 (23.7)	9.6 (24.3)	275.4 (1042.3)	46.8 (21.2)
191	9.6 (24.3)	9.6 (24.3)	--	46.6 (21.1)
200	9.6 (24.3)	9.8 (24.9)	284.9 (1078.3)	46.9 (21.3)
210	9.8 (24.9)	10.0 (25.5)	294.4 (1114.4)	48.6 (22.0)
220	10.0 (25.5)	10.3 (26.1)	303.9 (1150.5)	49.8 (22.6)
230	10.3 (26.1)	10.5 (26.7)	313.5 (1186.6)	50.0 (22.7)
240	10.5 (26.7)	10.7 (27.3)	323.0 (1222.7)	51.5 (23.4)
250	10.7 (27.3)	11.0 (27.9)	332.6 (1258.9)	50.5 (22.9)
260	11.0 (27.9)	11.2 (28.5)	342.1 (1295.0)	52.4 (23.7)
270	11.2 (28.5)	11.5 (29.1)	351.7 (1331.2)	53.0 (24.0)
280	11.5 (29.1)	11.7 (29.7)	361.2 (1367.4)	54.5 (24.7)
290	11.7 (29.7)	11.9 (30.3)	370.8 (1403.6)	54.9 (24.9)
291	11.9 (30.3)	11.9 (30.3)	--	53.4 (24.2)
300	11.9 (30.3)	12.2 (30.9)	380.4 (1439.9)	55.6 (25.3)

Use this chart to estimate flow capacities and invert elevations. Add a minimum of 4 in. (10 cm) to overall depths to estimate necessary excavation or as recommended by Structural Engineer. Actual depth of excavation is governed by slab or pavement thickness.

Notes:
Subtract 1 in. (25 mm) from minimum and maximum depths shown to obtain invert elevations.
Red part numbers indicate non-sloping channels.
Hydraulic data does not have a grate locking device in flow area.
When using the Model 510 or 530 Series frame and grate systems, add 1.2 in. (31 mm) to the overall depths.



The Alfa Channel[®] Trench Drain System consists of (30) interlocking sloped channels and (5) non-sloping channels. The non-sloped channels can be inserted at specified intervals in order to extend channel runs. Catch basins, horizontal outlet plates, closed end plates and vertical outlet plate adapters can be installed at designated locations. Closed end plates terminate channel runs. To determine number of channels required, simply divide footage by (3.27 ft / channel).



Load Classifications

	Load Class	Design Load (maximum)	Grate Options
A	Bicycles, golf carts	60 psi	All grates
B	Automobiles, light trucks, light aircraft (less than 5 mph)	175 psi	2412, 2413, 2420, 2421, 2422, 2423, 2440, 2441, 2442, 2443, 2454, 2455
C	Pneumatic tire vehicles, semi trucks	325 psi	2422, 2423, 2442, 2443, 2500, 2502, 2504, 2512 AF
D	Severe point loads, hard tire fork lifts	575 psi	2512AF, 2514AF, 2515AF, 2442.19, 2443.10*(with frame), 2564

For variations on load suitability contact our technical sales support team at 800-433-1119

Suggested Specification (Short Form)

Section 02725 - Precast Trench Drain and Catch Basin System

Part 2 - Products

A. Acceptable manufacturer:

1. Base: ALFA CHANNEL® ; manufactured by MULTIDRAIN Inc, PO Box 88, Barium Springs, North Carolina, 28010

B. Components:

1. Drain trench: Fabricated of polyester polymer concrete, 155 mm (6.1") wide, 100 mm (4") ID with radiused bottom, having following attributes:
 - a. Lengths: Nominal 0.05 meter (19.6") and 1.0 meter (39.19")
 - b. Bottoms: Sloped to provide 0.6% slope
 - c. Anchoring ribs: Full length
 - d. Grate locking slots: Blind, vibration damping, thermoplastic
 - e. Interlocking ends
 - f. Available to 90 m (294'), continuous slope using sidewall extensions

Specifier: If corrosive products will be transported with this system, change polyester to vinylester and add compatible sealant. See the *MultiDrain Chemical Resistance Guide* for suitable material specification information.

2. Grates:

- a. Perforated heel-proof, steel
- b. Slotted steel
- c. Ductile iron anchor frames
- d. Grey iron anchor frames
- e. Fiberglass

3. Accessories:

- a. End plates
- b. Outlet plates
- c. Strainer
- d. Locking devices
- e. Sealant
- f. Installation devices
- g. Catch basins

Specifier: Select grate type from catalog and enter part number. Assure that selected type meets loading requirements. Select proper accessories, insert model numbers. Always use cast anchor frames for hard tire loadings. Delete items not used.

Part 3 - Execution

3.02 Preparation

- A. Where sealant is required, roughen surface, and acetone wash area to receive sealant.

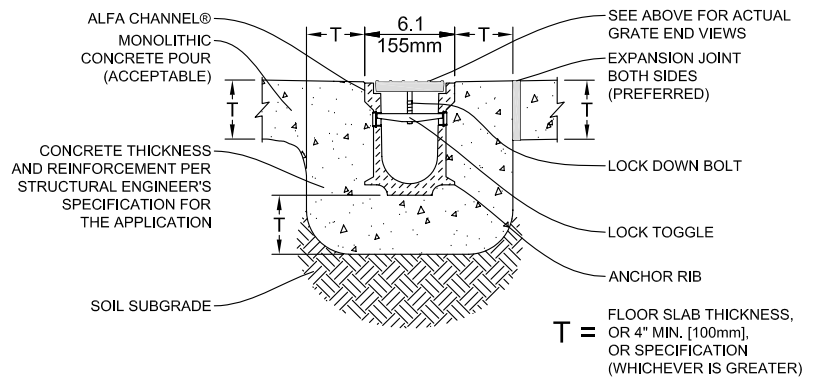
3.03 Installation

- A. In accord with manufacturer's instructions
- B. Utilize manufacturer's approved installation device to assure proper joints, drawn tightly together by device
- C. The trench drain and its encapsulating concrete should be isolated from the expansion and contraction stress of the adjacent slabs

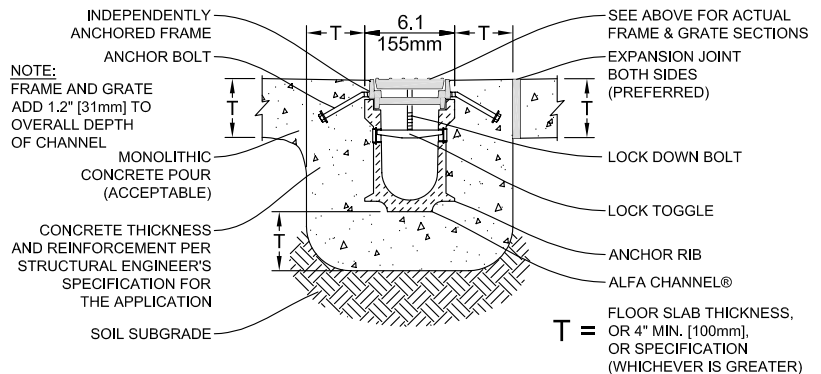
For comprehensive long-form specifications and details in print or digital format visit our website at

www.multidrain.com

Cross-Sectional View
Channel with Frame and Grate



Cross-Sectional View
Channel with In-lay Type Grate



ALFA CHANNEL®

by MultiDrain Systems Inc
1-800-433-1119

For more information, please contact:

