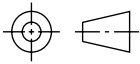
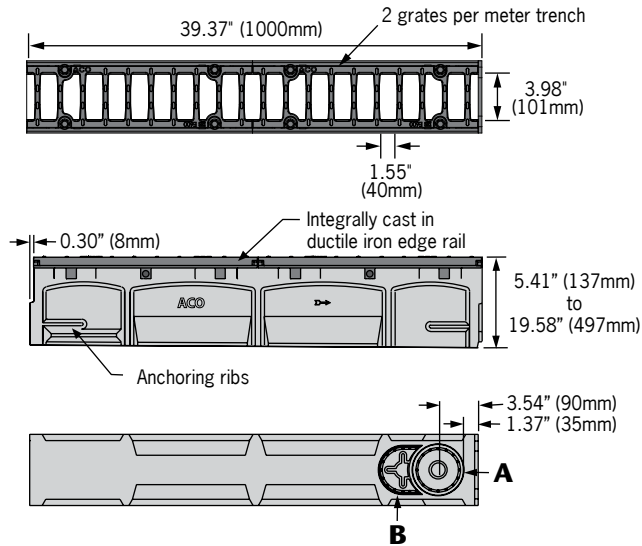




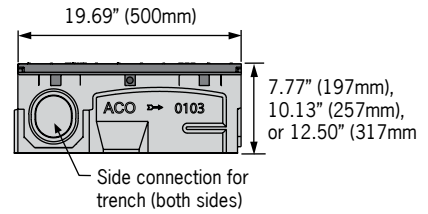
# TrafficDrain TD100 Grated



## One Meter Channel

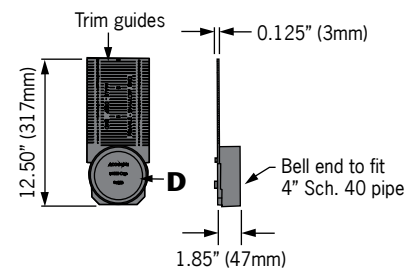


## Half Meter Channel



## End Caps -

### Closing/Inlet/Outlet Cap

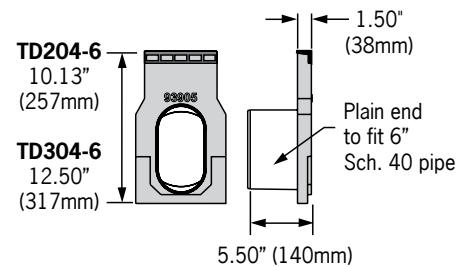


## Outlet flow rates

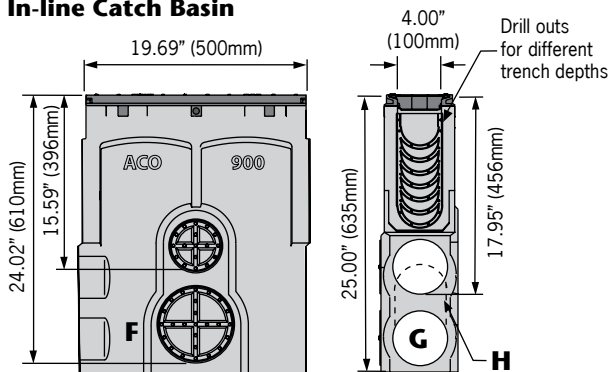
| Product | Invert Depth | A - 4" dia |      | B - 6" Oval |      | D - 4" dia |      | E - 6" Oval |      |
|---------|--------------|------------|------|-------------|------|------------|------|-------------|------|
|         |              | GPM        | CFS  | GPM         | CFS  | GPM        | CFS  | GPM         | CFS  |
| TD01    | 4.41         | 95         | 0.21 | 155         | 0.35 | -          | -    | -           | -    |
| TD10    | 6.77         | 126        | 0.28 | 207         | 0.46 | 100        | 0.22 | -           | -    |
| TD20    | 9.13         | 152        | 0.34 | 248         | 0.55 | 131        | 0.29 | 194         | 0.43 |
| TD30    | 11.50        | 173        | 0.39 | 283         | 0.63 | 155        | 0.35 | 238         | 0.53 |
| TD40    | 13.86        | 192        | 0.43 | 315         | 0.70 | -          | -    | -           | -    |
| TD50    | 16.22        | 210        | 0.47 | 343         | 0.76 | -          | -    | -           | -    |
| TD60    | 18.58        | 226        | 0.50 | 370         | 0.82 | -          | -    | -           | -    |

Note: These are the pipe flow rates at the specified outlet, **NOT** channel flow rates.

## Oval Inlet Cap



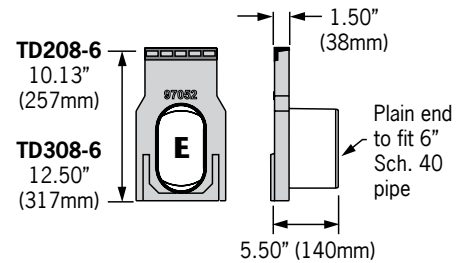
## In-line Catch Basin



## Outlet flow rates

| Product | Invert Depth | F - 6" dia |      | G - 6" dia |      | H   |      |
|---------|--------------|------------|------|------------|------|-----|------|
|         |              | GPM        | CFS  | GPM        | CFS  | GPM | CFS  |
| TD900   | 24.00        | 561        | 1.25 | 225        | 0.59 | 399 | 0.91 |

Note: Catch basin flow rates are without trash bucket - using trash bucket reduces flow.

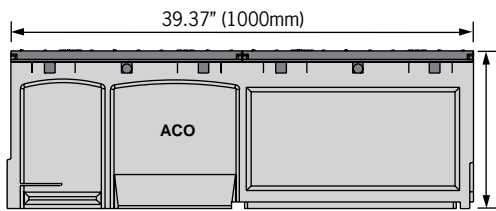


ACO Specification Information

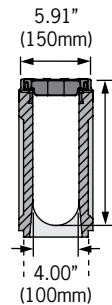


# ACO INFRASTRUCTURE

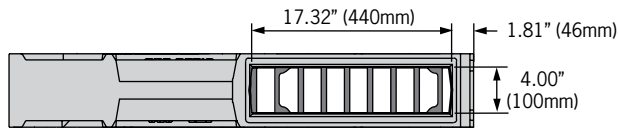
## Outlet Channels



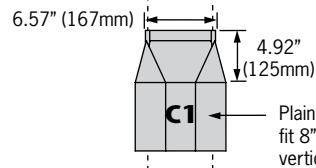
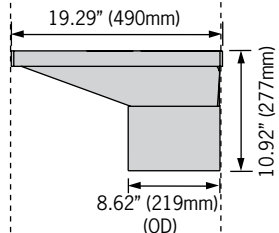
**TD030** - 12.50" (317mm)  
**TD040** - 14.86" (377mm)  
**TD050** - 17.22" (437mm)  
**TD060** - 19.58" (497mm)



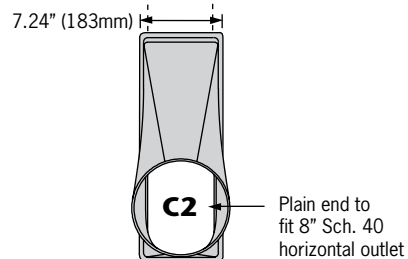
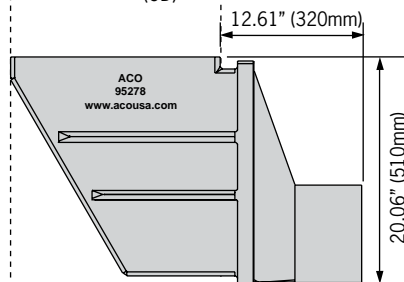
**TD030** - 11.50" (292mm)  
**TD040** - 13.86" (352mm)  
**TD050** - 16.22" (412mm)  
**TD060** - 18.58" (472mm)



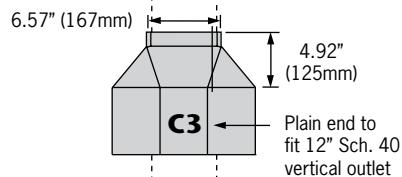
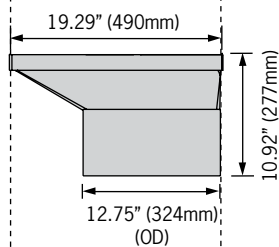
### Flume outlet 8" vertical



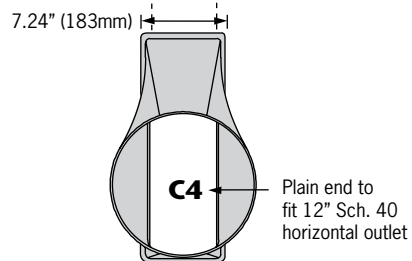
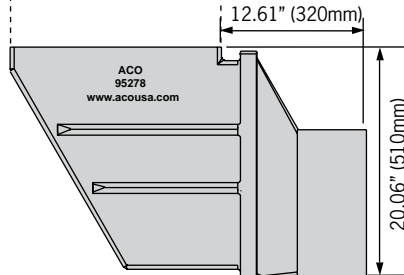
### Flume outlet kit 8" horizontal



### Flume outlet 12" vertical



### Flume outlet kit 12" horizontal



## Outlet flow rates

| Product | Invert | C1 - 8" V |      | C2 - 8" H |      | Invert | C3 - 12" V |      | C4 - 12" H |      |
|---------|--------|-----------|------|-----------|------|--------|------------|------|------------|------|
|         | Depth  | GPM       | CFS  | GPM       | CFS  | Depth  | GPM        | CFS  | GPM        | CFS  |
| TD030   | 17.12  | 872       | 1.94 | 1135      | 2.53 | 30.96  | 1962       | 4.37 | 2459       | 5.48 |
| TD040   | 19.48  | 934       | 2.08 | 1184      | 2.64 | 33.32  | 2102       | 4.68 | 2571       | 5.73 |
| TD050   | 21.84  | 992       | 2.21 | 1230      | 2.74 | 35.68  | 2232       | 4.97 | 2679       | 5.97 |
| TD060   | 24.20  | 1047      | 2.33 | 1275      | 2.84 | 38.04  | 2356       | 5.25 | 2783       | 6.20 |

Note: These are the pipe flow rates at the specified outlet, **NOT** channel flow rates.



# ACO INFRASTRUCTURE

## TrafficDrain Channels - Parts Table

| Description                   | Part No      | Length |              | Invert Depth - female |              | Invert Depth - male |              | Weight     |              |
|-------------------------------|--------------|--------|--------------|-----------------------|--------------|---------------------|--------------|------------|--------------|
|                               |              | Grated | inches       | mm                    | inches       | mm                  | inches       |            | mm           |
| <b>TD01 Neutral channel</b>   | <b>96105</b> |        | <b>39.37</b> | <b>1000</b>           | <b>4.41</b>  | <b>112</b>          | <b>4.41</b>  | <b>112</b> | <b>62.7</b>  |
| TD1 Sloping channel           | 96111        |        | 39.37        | 1000                  | 4.41         | 112                 | 4.65         | 118        | 63.8         |
| TD2 Sloping channel           | 96128        |        | 39.37        | 1000                  | 4.65         | 118                 | 4.88         | 124        | 64.8         |
| TD3 Sloping channel           | 96134        |        | 39.37        | 1000                  | 4.88         | 124                 | 5.12         | 130        | 65.8         |
| TD4 Sloping channel           | 96140        |        | 39.37        | 1000                  | 5.12         | 130                 | 5.35         | 136        | 66.8         |
| TD5 Sloping channel           | 96153        |        | 39.37        | 1000                  | 5.35         | 136                 | 5.59         | 142        | 67.8         |
| TD6 Sloping channel           | 96162        |        | 39.37        | 1000                  | 5.59         | 142                 | 5.83         | 148        | 68.9         |
| TD7 Sloping channel           | 96176        |        | 39.37        | 1000                  | 5.83         | 148                 | 6.06         | 154        | 69.9         |
| TD8 Sloping channel           | 96189        |        | 39.37        | 1000                  | 6.06         | 154                 | 6.30         | 160        | 70.9         |
| TD9 Sloping channel           | 96191        |        | 39.37        | 1000                  | 6.30         | 160                 | 6.54         | 166        | 71.9         |
| TD10 Sloping channel          | 96206        |        | 39.37        | 1000                  | 6.54         | 166                 | 6.77         | 172        | 72.9         |
| <b>TD010 Neutral channel</b>  | <b>96218</b> |        | <b>39.37</b> | <b>1000</b>           | <b>6.77</b>  | <b>172</b>          | <b>6.77</b>  | <b>172</b> | <b>73.4</b>  |
| <b>TD0103 Neutral channel</b> | <b>96221</b> |        | <b>19.69</b> | <b>500</b>            | <b>6.77</b>  | <b>172</b>          | <b>6.77</b>  | <b>172</b> | <b>38.4</b>  |
| TD11 Sloping channel          | 96234        |        | 39.37        | 1000                  | 6.77         | 172                 | 7.01         | 178        | 73.9         |
| TD12 Sloping channel          | 96245        |        | 39.37        | 1000                  | 7.01         | 178                 | 7.24         | 184        | 74.9         |
| TD13 Sloping channel          | 96252        |        | 39.37        | 1000                  | 7.24         | 184                 | 7.48         | 190        | 75.9         |
| TD14 Sloping channel          | 96269        |        | 39.37        | 1000                  | 7.48         | 190                 | 7.72         | 196        | 76.9         |
| TD15 Sloping channel          | 96277        |        | 39.37        | 1000                  | 7.72         | 196                 | 7.95         | 202        | 77.9         |
| TD16 Sloping channel          | 96283        |        | 39.37        | 1000                  | 7.95         | 202                 | 8.19         | 208        | 79.0         |
| TD17 Sloping channel          | 96295        |        | 39.37        | 1000                  | 8.19         | 208                 | 8.43         | 214        | 80.0         |
| TD18 Sloping channel          | 96301        |        | 39.37        | 1000                  | 8.43         | 214                 | 8.66         | 220        | 81.0         |
| TD19 Sloping channel          | 96316        |        | 39.37        | 1000                  | 8.66         | 220                 | 8.90         | 226        | 82.0         |
| TD20 Sloping channel          | 96329        |        | 39.37        | 1000                  | 8.90         | 226                 | 9.13         | 232        | 83.0         |
| <b>TD020 Neutral channel</b>  | <b>96337</b> |        | <b>39.37</b> | <b>1000</b>           | <b>9.13</b>  | <b>232</b>          | <b>9.13</b>  | <b>232</b> | <b>83.6</b>  |
| <b>TD0203 Neutral channel</b> | <b>96342</b> |        | <b>19.69</b> | <b>500</b>            | <b>9.13</b>  | <b>232</b>          | <b>9.13</b>  | <b>232</b> | <b>42.2</b>  |
| TD21 Sloping channel          | 96351        |        | 39.37        | 1000                  | 9.13         | 232                 | 9.37         | 238        | 84.0         |
| TD22 Sloping channel          | 96364        |        | 39.37        | 1000                  | 9.37         | 238                 | 9.61         | 244        | 85.0         |
| TD23 Sloping channel          | 96376        |        | 39.37        | 1000                  | 9.61         | 244                 | 9.84         | 250        | 86.0         |
| TD24 Sloping channel          | 96385        |        | 39.37        | 1000                  | 9.84         | 250                 | 10.08        | 256        | 87.0         |
| TD25 Sloping channel          | 96398        |        | 39.37        | 1000                  | 10.08        | 256                 | 10.31        | 262        | 88.0         |
| TD26 Sloping channel          | 96403        |        | 39.37        | 1000                  | 10.31        | 262                 | 10.55        | 268        | 89.1         |
| TD27 Sloping channel          | 96411        |        | 39.37        | 1000                  | 10.55        | 268                 | 10.79        | 274        | 90.1         |
| TD28 Sloping channel          | 96429        |        | 39.37        | 1000                  | 10.79        | 274                 | 11.02        | 280        | 91.1         |
| TD29 Sloping channel          | 96434        |        | 39.37        | 1000                  | 11.02        | 280                 | 11.26        | 286        | 92.1         |
| TD30 Sloping channel          | 96447        |        | 39.37        | 1000                  | 11.26        | 286                 | 11.50        | 292        | 93.1         |
| <b>TD030 Neutral channel</b>  | <b>96456</b> |        | <b>39.37</b> | <b>1000</b>           | <b>11.50</b> | <b>292</b>          | <b>11.50</b> | <b>292</b> | <b>95.4</b>  |
| <b>TD0303 Neutral channel</b> | <b>96462</b> |        | <b>19.69</b> | <b>500</b>            | <b>11.50</b> | <b>292</b>          | <b>11.50</b> | <b>292</b> | <b>46.4</b>  |
| <b>TD030 Outlet channel</b>   | <b>96448</b> |        | <b>39.37</b> | <b>1000</b>           | <b>11.50</b> | <b>292</b>          | <b>11.50</b> | <b>292</b> | <b>90.0</b>  |
| TD31 Sloping Trench           | 96253        |        | 39.37        | 1000                  | 11.50        | 292                 | 11.73        | 298        | 98.4         |
| TD32 Sloping Trench           | 96257        |        | 39.37        | 1000                  | 11.73        | 298                 | 11.97        | 304        | 101.0        |
| TD33 Sloping Trench           | 96259        |        | 39.37        | 1000                  | 11.97        | 304                 | 12.20        | 310        | 103.6        |
| TD34 Sloping Trench           | 96262        |        | 39.37        | 1000                  | 12.20        | 310                 | 12.44        | 316        | 106.2        |
| TD35 Sloping Trench           | 96265        |        | 39.37        | 1000                  | 12.44        | 316                 | 12.68        | 322        | 106.4        |
| TD36 Sloping Trench           | 96268        |        | 39.37        | 1000                  | 12.68        | 322                 | 12.91        | 328        | 107.5        |
| TD37 Sloping Trench           | 96271        |        | 39.37        | 1000                  | 12.91        | 328                 | 13.15        | 334        | 109.2        |
| TD38 Sloping Trench           | 96275        |        | 39.37        | 1000                  | 13.15        | 334                 | 13.39        | 340        | 111.0        |
| TD39 Sloping Trench           | 96278        |        | 39.37        | 1000                  | 13.39        | 340                 | 13.62        | 346        | 112.8        |
| TD40 Sloping Trench           | 96286        |        | 39.37        | 1000                  | 13.62        | 346                 | 13.86        | 352        | 114.9        |
| <b>TD40 Neutral Trench</b>    | <b>96390</b> |        | <b>39.37</b> | <b>1000</b>           | <b>13.86</b> | <b>352</b>          | <b>13.86</b> | <b>352</b> | <b>114.4</b> |
| <b>TD40 Outlet Trench</b>     | <b>96454</b> |        | <b>39.37</b> | <b>1000</b>           | <b>13.86</b> | <b>352</b>          | <b>13.86</b> | <b>352</b> | <b>114.4</b> |
| TD41 Sloping Trench           | 96290        |        | 39.37        | 1000                  | 13.86        | 352                 | 14.09        | 358        | 117.4        |
| TD42 Sloping Trench           | 96297        |        | 39.37        | 1000                  | 14.09        | 358                 | 14.33        | 364        | 118.8        |
| TD43 Sloping Trench           | 96305        |        | 39.37        | 1000                  | 14.33        | 364                 | 14.57        | 370        | 120.2        |
| TD44 Sloping Trench           | 96308        |        | 39.37        | 1000                  | 14.57        | 370                 | 14.80        | 376        | 121.6        |
| TD45 Sloping Trench           | 96313        |        | 39.37        | 1000                  | 14.80        | 376                 | 15.04        | 382        | 122.9        |
| TD46 Sloping Trench           | 96319        |        | 39.37        | 1000                  | 15.04        | 382                 | 15.28        | 388        | 125.4        |
| TD47 Sloping Trench           | 96326        |        | 39.37        | 1000                  | 15.28        | 388                 | 15.51        | 394        | 127.0        |
| TD48 Sloping Trench           | 96331        |        | 39.37        | 1000                  | 15.51        | 394                 | 15.75        | 400        | 128.6        |
| TD49 Sloping Trench           | 96338        |        | 39.37        | 1000                  | 15.75        | 400                 | 15.98        | 406        | 130.2        |
| TD50 Sloping Trench           | 96340        |        | 39.37        | 1000                  | 15.98        | 406                 | 16.22        | 412        | 131.9        |
| <b>TD50 Neutral Trench</b>    | <b>96395</b> |        | <b>39.37</b> | <b>1000</b>           | <b>16.22</b> | <b>412</b>          | <b>16.22</b> | <b>412</b> | <b>131.4</b> |
| <b>TD50 Outlet Trench</b>     | <b>96453</b> |        | <b>39.37</b> | <b>1000</b>           | <b>16.22</b> | <b>412</b>          | <b>16.22</b> | <b>412</b> | <b>131.4</b> |
| TD51 Sloping Trench           | 96349        |        | 39.37        | 1000                  | 16.22        | 412                 | 16.46        | 418        | 135.4        |
| TD52 Sloping Trench           | 96353        |        | 39.37        | 1000                  | 16.46        | 418                 | 16.69        | 424        | 136.6        |
| TD53 Sloping Trench           | 96357        |        | 39.37        | 1000                  | 16.69        | 424                 | 16.93        | 430        | 137.8        |
| TD54 Sloping Trench           | 96362        |        | 39.37        | 1000                  | 16.93        | 430                 | 17.17        | 436        | 139.0        |
| TD55 Sloping Trench           | 96368        |        | 39.37        | 1000                  | 17.17        | 436                 | 17.40        | 442        | 139.9        |
| TD56 Sloping Trench           | 96374        |        | 39.37        | 1000                  | 17.40        | 442                 | 17.64        | 448        | 143.9        |
| TD57 Sloping Trench           | 96375        |        | 39.37        | 1000                  | 17.64        | 448                 | 17.87        | 454        | 145.5        |
| TD58 Sloping Trench           | 96382        |        | 39.37        | 1000                  | 17.87        | 454                 | 18.11        | 460        | 147.1        |
| TD59 Sloping Trench           | 96386        |        | 39.37        | 1000                  | 18.11        | 460                 | 18.35        | 466        | 148.7        |
| TD60 Sloping Trench           | 96394        |        | 39.37        | 1000                  | 18.35        | 466                 | 18.58        | 472        | 150.3        |
| <b>TD60 Neutral Trench</b>    | <b>96397</b> |        | <b>39.37</b> | <b>1000</b>           | <b>18.58</b> | <b>472</b>          | <b>18.58</b> | <b>472</b> | <b>149.4</b> |
| <b>TD60 Outlet Trench</b>     | <b>96452</b> |        | <b>39.37</b> | <b>1000</b>           | <b>18.58</b> | <b>472</b>          | <b>18.58</b> | <b>472</b> | <b>149.4</b> |

ACO Specification Information

Accessories continued overleaf.

# TraffikDrain - Part List

| Description                             | Part No      | Length |     | Invert Depth |     | Weight lbs |
|-----------------------------------------|--------------|--------|-----|--------------|-----|------------|
|                                         |              | inches | mm  | inches       | mm  |            |
| <b>In-line Catch Basin</b>              |              |        |     |              |     |            |
| TD900 In-line catch basin               | <b>96478</b> | 19.69  | 500 | 24.00        | 610 | 96.5       |
| Type 900 trash bucket                   | <b>01498</b> | -      | -   | -            | -   | 1.1        |
| Foul air trap                           | <b>90854</b> | -      | -   | -            | -   | 1.2        |
| <b>Accessories</b>                      |              |        |     |              |     |            |
| Type 824 4" - 6" outlet adapter         | <b>95140</b> | -      | -   | -            | -   | 1.1        |
| Flume outlet - 8" vertical              | <b>95279</b> | -      | -   | -            | -   | 2.4        |
| Flume outlet kit - 8" horizontal        | <b>95290</b> | -      | -   | -            | -   | 7.5        |
| Flume outlet - 12" vertical             | <b>95285</b> | -      | -   | -            | -   | 4.5        |
| Flume outlet kit - 12" horizontal       | <b>95287</b> | -      | -   | -            | -   | 9.6        |
| Closing/4" Inlet/Outlet cap             | <b>95063</b> | -      | -   | -            | -   | 0.4        |
| TD204-6 6" Inlet cap                    | <b>93903</b> | -      | -   | -            | -   | 4.8        |
| TD208-6 6" Outlet cap                   | <b>97048</b> | -      | -   | 9.13         | 232 | 4.8        |
| TD304-6 6" Inlet cap                    | <b>93905</b> | -      | -   | -            | -   | 6.1        |
| TD308-6 6" Outlet cap                   | <b>97052</b> | -      | -   | 11.50        | 292 | 6.1        |
| TD100 installation device - joint clamp | <b>95286</b> | 22.25  | 565 | -            | -   | 3.3        |
| TD100 installation device - hanger clip | <b>95289</b> | -      | -   | -            | -   | 0.6        |

### Notes:

- TraffikDrain is sold complete, i.e., channel with grate & bolts. For replacement bolts - order Part No. 95526 (bolt) and 95525 (washer).
- Add nominal 1" (25mm) to invert depth for overall trench unit depth.
- Preformed 4" dia. & 6" flumed drill-out outlet cast on underside of every channel (except outlet channel - 96448).
- Closing/4" inlet/outlet cap can be cut down to suit all channels.
- 6" Inlet & outlet caps cannot be cut to size.

### ACO, Inc.

#### West Sales Office

9470 Pinecone Drive  
Mentor, OH 44060  
Tel: (440) 639-7230  
Toll free: (800) 543-4764  
Fax: (440) 639-7235

#### Northeast Sales Office

825 W. Beechcraft St.  
Casa Grande, AZ 85122  
Tel: (520) 421-9988  
Toll Free: (888) 490-9552  
Fax: (520) 421-9899

#### Southeast Sales Office

4211 Pleasant Road  
Fort Mill, SC 29708  
Toll free: (800) 543-4764  
Fax: (803) 802-1063

#### Electronic Contact:

info@acousa.com  
www.acousa.com

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All reasonable care has been taken in compiling this document. All recommendations on the use of ACO products are made without guarantee since the conditions of use are beyond the control of the company. ACO reserves the right to change the product and specifications without notice.

## Specifications

### General

The surface drainage system shall be ACO INFRASTRUCTURE TraffikDrain complete with gratings as manufactured by ACO, Inc. or equal approved.

### Materials

The trench system bodies shall be manufactured from polyester polymer concrete with minimum properties as follows:

Compressive strength: 14,000 psi  
Flexural strength: 4,000 psi  
Water absorption: 0.07%  
Frost proof  
Salt proof - B117 Salt Spray Test compliant  
Dilute acid and alkali resistant

The nominal clear opening shall be 4.00" (100mm) with overall width of 6.375" (162mm). Modular units shall be manufactured with either an invert slope of 0.6% or with neutral invert and have a wall thickness of at least 0.67" (16mm). Each unit will feature a full radius in the trench bottom and a male to female interconnecting end profile. Units shall have horizontal cast in anchoring features on the outside wall to ensure maximum mechanical bond to the surrounding bedding material and pavement surface.

The ductile iron edge rail will be integrally cast in by the manufacturer to ensure maximum homogeneity between polymer concrete body and edge rail. Each edge rail shall be at least 0.25" (6mm) thick.

### Grates

Grates are manufactured from ductile iron to ASTM A536-84 and shall be certified to load class E600 as defined by EN 1433 or able to withstand loadings up to 2,788 psi. Trench grates feature 60% (38.92 sq. ins. per linear ft.) open area for maximum hydraulic efficiency. Each grate shall be secured by two locking lugs and two M10 x 22 mild steel bolts that lock into stainless steel widgets in rail. After removal of grates there shall be uninterrupted access to the full trench system to aid maintenance.

### Installation

The trench drain system shall be installed in accordance with the manufacturer's installation instructions and drawings.

ACO Specification Information

