

Fabco Trench Drain Specifications

Fabco's trench drain filters are comprised of 1, 2, 3 or 4; 48" long, perforated metal square tubes called Debris Shield and a Bypass hood assembly.

The debris shield incorporates an internal cylindrical filter media product that is user replaceable. The customer can choose from one of three available treatment media types: Oil/Grease, Pathogen, Phosphates/nutrients

The Bypass hood performs two functions:

1. Features auto-adjustment panels to fix or clamp the filter assembly inside the trench
2. It incorporates an open window or port that allows flowing water beyond the treatment capacity of the filter to BYPASS and enter the stormwater system.

Auto-adjustment feature: The Bypass hood features two (2) aluminum panels with rubber sealing edges attached on both sides of the deflector window. The panels are attached using hinges and include a strong torsion spring that forces the panels open – perpendicular to the debris shield filter tube in the open position.

During installation, the panels are folded back by hand so that they lay flush along the debris shield. Once the Filter is laid on the floor of the drain you would release the panels so that they extend out from the sides under pressure and contact the walls of the trench creating a seal. Storm water moving through the trench would be restricted by the panels, like a small dam, and directed into the debris screen for filtering.

1) WEIGHTS

- A. SINGLE COLUMN: 15 POUNDS
- B. DOUBLE COLUMN: 30 POUNDS
- C. TRIPLE COLUMN: 45 POUNDS
- D. QUAD COLUMN: 60 POUNDS

2) DIMENSIONS: 9" TALL X 48 5/8" LONG X W (SEE **MIN** AUTO-ADJUSTMENT RANGE)

3) MATERIALS:

- A. PERFORATED STAINLESS STEEL ALLOY DEBRIS SHIELD WITH 51% OPEN AREA
- B. ALUMINUM ALLOY(0.062" THK) BYPASS HOOD WITH AUTO-ADJUSTMENT FEATURE
- C. 300 SERIES STAINLESS STEEL SUPPORT HARDWARE:

4) PERFORMANCE CHARACTERISTICS:

- A. PERFORATED DEBRIS SHIELD; NOMINAL 5MM HOLE SIZE
- B. TREATMENT FLOW RATE :
 - a. SINGLE COLUMN: 1440 GPM (3.2 CFS)
 - b. DOUBLE COLUMN: 2884 (6.4 CFS)

- c. TRIPLE COLUMN: 4326.3 (9.7 CFS)
 - d. QUAD COLUMN: 5768.4 (12.9 CFS)
- C. DEBRIS CAPACITY
 - a. SINGLE COLUMN: 0.96 CU-FT
 - b. DOUBLE COLUMN: 2.34 CU-FT
 - c. TRIPLE COLUMN; 3.69 CU-FT
 - d. QUAD COLUMN: 5.05 CU-FT
- D. BYPASS FLOW RATE:
 - a. SINGLE COLUMN:109 GPM (0.24 CFS)
 - b. DOUBLE COLUMN: 215 GPM (0.48 CFS)
 - c. TRIPLE COLUMN: 276.6 GPM (0.62 CFS)
 - d. QUAD COLUMN: 622.7 GPM (1.39 CFS)
- 5) AUTO-ADJUSTMENT RANGE – MIN/MAX TRENCH DRAIN WIDTH FOR EACH FILTER
 - a. SINGLE COLUMN: 6.0" MIN – 10.0" MAX
 - b. DOUBLE COLUMN: 10.0" MIN – 15.0" MAX
 - c. TRIPLE COLUMN: 15.0" MIN – 20.5" MAX
 - d. QUAD COLUMN: 20.0" MIN – 25.5" MAX
- 6) MINIMUM TRENCH DRAIN DEPTH: 10" BELOW BOTTOM OF GRATE(s)