



ECONODRAIN® STANDARD SPECIFICATION

15" (381 mm) Trench ID, Pre-engineered Trench Forming System with Banded Bar Grate, Steel, Shop Black

System ID#: EconoDrain Series #15

Trench drain shall be EconoDrain® Series #15; By MultiDrain Systems, Inc., which is located at: 1405 Industrial Drive; Statesville, NC 28625; ASD. Toll Free Tel: 800-433-1119; Tel: 704-508-1010; Fax: 704-508-1011; Email: [request info \(steve.born@multidrain.com\)](mailto:steve.born@multidrain.com); Web: www.multidrain.com.

Forming System: EconoDrain 15 inch (381 mm) Trench Drain Forming System as manufactured by MultiDrain Systems, including EPS forms, grating/cover seat, grating and/or covers and system accessories.

1. Construction: The trench drain system shall be EconoDrain consisting of non-CFC Expanded Polystyrene Foam (EPS) interlocking pre-sloped removable forms having a standard slope of 0.5 percent (1/16 inch per lineal foot of trench) and installed in standard eight foot sections (2438 mm) sections, Bolt-In-Place Rail grate frames anchored securely in concrete, common rebar used for form stability and anti-flotation during pour and gratings.
2. Expanded Polystyrene Foam (EPS) Forms:
 - a. EPS shall have a Flame Spread less than 25 and Smoke Developed less than 450 per ASTM E-84 test method. Non-petroleum based form release is to be used for smooth interior trench walls and easy form removal.
 - b. Radius Bottom.
 - c. Square Bottom.
3. Grate Seat Rails:
 - a. Left and right rail shall be affixed together and Bolt-In-Place Rail Spacer Bars assure proper symmetry and planar accuracy.
 - b. Material: Mild steel rails conforming to ASTM A36 - Black, Polyester powder coating.
 - c. Material: Mild steel rails - Galvanized.
 - d. Material: Stainless steel conforming to ASTM A276.
 - e. Alignment clips shall be welded to each end of the angle frame.
 - f. Eight anchor stands shall be provided per eight foot length to aid installation stability; allow simple grade adjustment and provide grate rail pull out resistance. The anchor stands shall be fully welded to the angle frame.
 - g. Each frame assembly shall provide 10 anchor studs, a means to mechanically lock itself into the surrounding concrete. Rail pull out resistance shall not be less than 2,480 lb/lineal foot (36 kN/m).

Grate: EG-1736-HPBG

- a. Type: Banded Bar Grate
- b. Material: Steel, Shop Black
- c. Size (in.): 17" Wide x 36" Long x 1-1/2"
- d. Grate Slot Size: 1-3/16" x 4 (O.C.) / 19-W-4
- e. Open Area: 67.5%
- f. Square Inches per Lin. Ft.: 137.30
- g. Load Rating: Light Duty

Quality Assurance:

Submittals: A Certificate of Compliance in conformance with the provisions of these Standard Specifications shall be furnished to the Engineer. Grates shall be independently tested to AASHTO M-306.