ICC FLOWTECH® DRAINAGE SYSTEMS

PRODUCT DESCRIPTION
FOR THE STATE OF WISCONSIN

1. **ICC Flowtech® FTSG123H-1 OC Horizontal Drainage System** consisting of three 12-inch diameter cylindrical units in 10 foot or 5 foot lengths. One with a 4-inch diameter perforated plastic pipe surrounded by Flowtech® EPS aggregate off center so that there is 6-inches of aggregate below invert of pipe and encased with 180 degrees each of netting and 180 degrees of geotextile and two units without pipe. These units will each have flanges so as to deter the soil from falling between units and between unit and trench walls. The geotextile and netting will be strong enough to retain the shape of the units during system installation and backfilling. The perforated flexible plastic pipe shall meet ASTM F 405 Standard Specifications for Corrugated Plastic Pipe. Each pipe unit will be connected with an internal coupling to allow flow from one unit to the next. (See product drawings.)

2. **ICC Flowtech® FTS123H-1 OC Horizontal Drainage System** consisting of three 12-inch diameter cylindrical units in 10 foot or 5 foot lengths. One with a 4-inch diameter perforated plastic pipe surrounded by Flowtech® EPS aggregate off center so that there is 6-inches of aggregate below invert of pipe and encased with 360 degrees of netting and two units without pipe. The netting will be strong enough to retain the shape of the units during system installation and backfilling. The perforated flexible plastic pipe shall meet ASTM F 405 Standard Specifications for Corrugated Plastic Pipe. Each pipe unit will be connected with an internal coupling to allow flow from one unit to the next. (See product drawings.)

Adding OC to the end of product number FTSG123H-1 OC will denote that the pipe is offset with 6-inches of aggregate below the pipe. This offset (OC) is for 12-inch units only. The Drainage System utilizes wastewater absorption trenches that contain units of loosely bound expanded polystyrene (EPS) aggregate in place of rock aggregate. The aggregate shall consist of "ICC Flowtech® aggregate shapes" of recycled EPS with a particle density of 1.0 pound per coubic foot, or greater, ranging in size from one-half-inch (1/2") to two-inches (2") across any axis. By prefixing a "G" to the product, this indicates the product with geotextile (i.e. FTSG123H-1 OC).

Cylindrical units are 12-inches in diameter. The length of the cylindrical units range from a minimum of 5 feet to a maximum of 20 feet. The expanded polystyrene aggregate (EPS) is held in a cylindrical shape with high strength polyethylene netting and geotextile fabric. The netting and geotextile fabric shall be strong enough to retain the shape of the units during system installation and backfilling, corrosion resistant, and of a mesh size to prevent loss of aggregate. The geotextile shall cover 180 degrees of the unit and allow water to flow thru but hold back fines. At least one cylindrical unit shall contain a perforated flexible plastic pipe for connection to adjacent sections to form a continuous absorption field system. The perforated flexible plastic pipe shall meet ASTM F 405, Standard Specifications for Corrugated Polyethylene Pipe. A series of three holes 5/8" in diameter spaced 120 degrees around the circumference are located every 4 inches along the lateral length of the pipe. Based on the manufacturer's recommendation, the hole orientation during installation may be random.