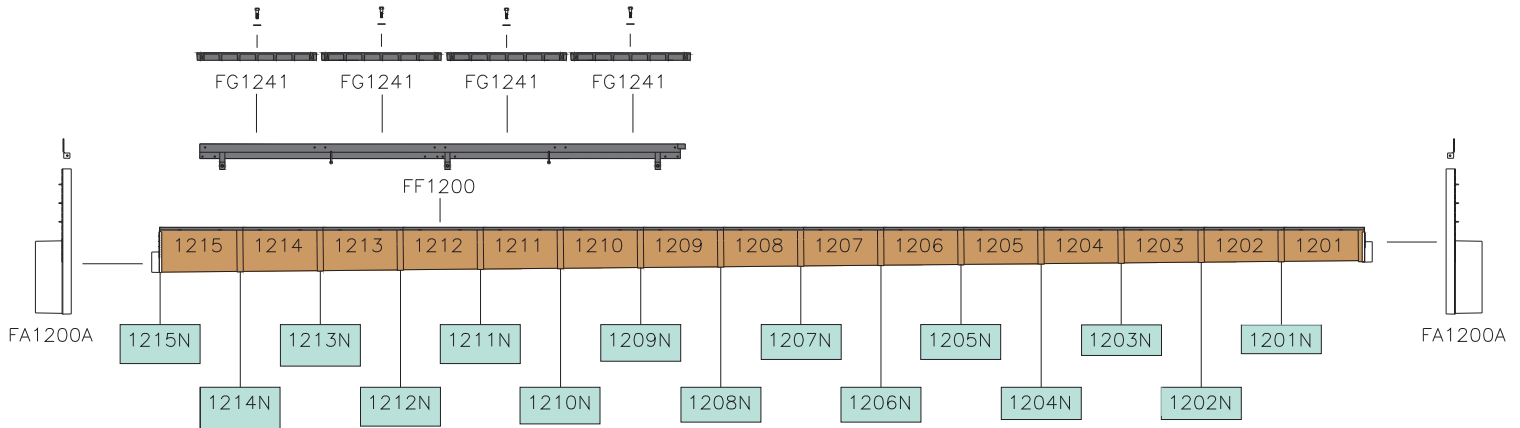


FP1200 SERIES

Configuration Chart

SPECIFICATIONS



Part Number	Inlet Depth (in.)	Outlet Depth (in.)	Flow (gpm)	Flow Velocity (fps)	Wt. (lbs)
1201	8.07	9.03	2057	7.02	29.6
1202	9.03	9.99	2381	7.02	32.0
1203	9.99	10.95	2709	7.02	34.4
1204	10.95	11.91	3040	7.02	36.8
1205	11.91	12.87	3374	7.02	39.2
1206	12.87	13.83	3710	7.02	41.6
1207	13.83	14.79	4047	7.02	44.0
1208	14.79	15.75	4387	7.02	46.4
1209	15.75	16.71	4728	7.02	48.8
1210	16.71	17.67	5069	7.02	51.2
1211	17.67	18.63	5412	7.02	53.6
1212	18.63	19.59	5756	7.02	56.0
1213	19.59	20.55	6101	7.02	58.4
1214	20.55	21.51	6446	7.02	60.8
1215	21.51	22.47	6792	7.02	63.2

TRENCH DRAIN SPECIFICATION

General: The work specified in this section shall consist of furnishing and installing preformed trench drains including drain channels, frames, grates, and accessories as shown on the contract plans. The surface drainage system shall be TDS FP1200 High Capacity Trench Drain. One manufacturer shall provide all drain components unless noted otherwise at piping connections. The number of component joints shall be minimized for products in this section.

Materials: The preformed trench drain shall be a polyester matrix as shown on the contract plans. The frame clear opening dimension shall be 11.86". The channel widths shall be 12.19" with a full bottom radius. The frame shall fully support the grate and transfer vertical loads linearly into adjacent concrete. Sloped and non-sloped channels shall be used as shown in contract plans. Channels shall be 8' long. Sloped channels shall have a minimum 1% inverted slope. Maximum capacity without extensions shall be 6700 GPM at flat and level grade. The channels shall permit a continuously sloped run of 120' without extensions.

The fiberglass channels shall have minimum material properties as follows:

DESCRIPTION	TEST METHOD	VALUES
Water absorption:	ASTM 5-570	<1%
Chemical resistance:	ASTM D-543	75% strength, <2% change in weight/dimension
Accelerated service	ASTM D-7566-E	75% strength, <2% change in weight/dimension
CTE (coefficient of thermal expansion)	ASTM D-696	4.4x10 ⁻⁶ in/in/°F

Grates and Frames: The grating and frames shall be made of steel (ASTM A-36), ductile iron (ASTM A-536 minimum grade 65-45-12), or gray iron (ASTM A-48) and meet DIN 19580 and FAA 150-5320-6E load requirements. The frames shall be non-removable from the concrete. The grates shall be removable or non-removable as shown on the contract plans. Removable grates shall have threaded bolt lockdowns that do not unduly impede fluid flow in the channel. The lockdowns shall withstand cyclical loads of 700 pounds after salt exposure per ASTM B-517.

Installation: The manufacturer's installation recommendations shall be followed. The reinforcement in the concrete surrounding the drain shall be adequate for the anticipated loads. The trench drain shall not be used in place of a defacto expansion joint.



www.TrenchDrainSystems.com
PO Box 377 • Fremont, OH 43420
(610) 638-1221