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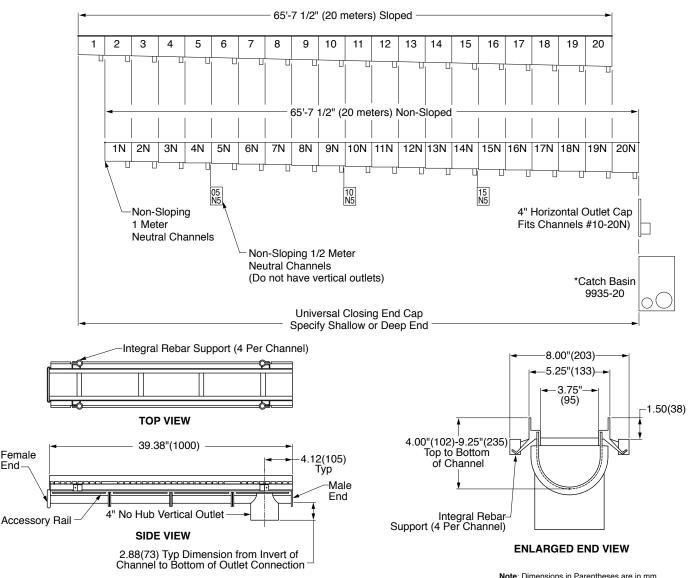
PACE **APPROVED**



LOCATION

9930 SERIES ENVIRO-FLO®II **DRAIN SYSTEM**

FUNCTION: Used in all surface drainage applications, may be assembled in any length utilizing interlocking tongue and groove ends. This reduces installation time and cost, providing an engineered sloped solution for drainage requirements.



REGULARLY FURNISHED:

1 Meter (3.28') 100% Polypropylene Post Industrial Recycled Material with U.V. Inhibitors. Channel of Interlocking Design with a Built-inSlope of 0.6% with Radiused Bottom. Supplied with Secured Grate.

VARIATIONS:

Grate Specifications (See Back) Closing End Cap Shallow -ES Closing End Cap Deep -ED Horizontal Outlet 4" -H4 Catch Basin Only 9935-20 Catch Basin Plastic Bucket -BP Direction Change Coupling -MC Stainless Steel Overlay Rails -SSR 9849 Rante Arrow

*Note: If Catch Basin is Specified For Any Other Channel Except For the #20 Channel, a Shim Must be Ordered, P/N: 9930-ES

Note: This Trench Drain System is Designed for "On Grade Applications Only" as There are No Provisions for a Flashing Flange or Flashing Clamp

**Note: All 1 Meter Long Sloped and Neutral Channels Have a Molded 4"(111) No-Hub Bottom Connection.

***Note: See Other side of sheet

Patent No. 10,047,512

X W	8-20-18 12-11-13	Added Patent No. Added 1/2 Meter Channels, Note, Rev. Var.	TBW TBW	PJ MD	WEIGHT POUNDS	VOLUME CUBIC FEET	FIGURE NUMBER
V	7-12-13 10-16-12	Revised Variations Revised and Redrawn	TBW TBW	PJ MD	TOUNDO	CODIOTELI	9930
REV.	DATE	DESCRIPTION	BY	CKD. BY			

4" NO-HUB Bottom Outlet Adaptor -BO***

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FIGURE NUMBER

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LOCATION

9930 SERIES ENVIRO-FLO® II **DRAIN SYSTEM**

		Light Duty DIN 19580 Load Class A: 3500 lbs - 70 psi. For pedestrian, wheelchair and bicycle traffic.
*		9870-410-GP - 1/4 dia perforated galv. steel
_		grate (28.30 sq. in.)
^		9870-420-G - 3 1/4 x 3/8 slotted galv. steel grate
		(35.20 sq. in.)
*		9870-450-SS - 3 1/4 x 3/8 slotted stainless steel
_		grate (42.60 sq. in.) 9870-451-SSPA - 1/4 dia perforated stainless steel
*		•
_		grate (28.30 sq. in.)
*	Ш	9870-447-SSADA - 13/16 x 3/16 longitudinal
		stainless steel slot bar grate (58.40 sq. in.) 9870-491-HPP - 1 13/16 x 1/4 slotted black
		polypropylene grate (17.00 sq. in.) (Non Q-lok)
*		9870-494-PADAB - 1 3/4 x 5/16 longitudinal slot
_		black polypropylene grate (27.40 sq. in.)
*		9870-494-PADAG - 1 3/4 x 5/16 longitudinal slot
		gray polypropylene grate (27.40 sq. in.)
		Heavy Duty DIN 19580 Load Class C: 56,000 lbs - 1,162 psi. For commercial pneumatic tire traffic patterns, forklifts (pneumatic tire) and tractor trailers (pneumatic tire).
*		9870-405-GM - 13/16 x 1/2 longitudinal galv.
		steel slot bar grate (121.10 sq. in.)
*		9870-411-GPHD - 1/4 dia perforated galv. steel
		grate (28.30 sq. in.)
*		9870-425-GHD - 3 1/4 x 3/8 slotted galv. steel
		grate (35.20 sq. in.)
*		9870-430-SSM - 13/16 x 1/2 longitudinal stainless
		steel slot bar grate (121.10 sq. in.)
*		9870-455-SSHD - 3 1/4 x 3/8 slotted stainless
		steel grate (42.60 sq. in.)
*		9870-465-SSP - 1/4 dia perforated stainless steel
		grate (28.30 sq. in.)
*		9870-479-MD - Mosaic pattern ductile iron grate
		(19.50 sq. in.)
*		9870-480-IW - Iron Wave pattern ductile iron grate
		(35.98 sq. in)
*		9870-481-ID - Iron Decorative pattern ductilr iron
		grate (19.00 sq. in.)
*		9870-492-RC - 1 1/2 x 13/16 slotted resin

HYDRAULIC CAPACITY AND DEEP END DEPTHS 9930 SYSTEM								
CHANNEL	DEEP END DEPTH			SINGLE C	CHANNEL	WEIGHT		
NUMBER	ER IN. MI		SLOPE	EST CFS	EST GPM	Lbs.		
9930-1	4.38	111	0.6%	.29	130	6.50		
9930-1N	4.38	111	0.0%	.29	130	6.50		
9930-2	4.62	117	0.6%	.31	139	6.60		
9930-2N	4.62	117	0.0%	.31	139	6.60		
9930-3	4.88	124	0.6%	.34	153	6.80		
9930-3N	4.88	124	0.0%	.34	153	6.80		
9930-4	5.12	130	0.6%	.36	162	6.90		
9930-4N	5.12	130	0.0%	.36	162	6.90		
9930-5	5.38	137	0.6%	.39	175	7.00		
9930-5N	5.38	137	0.0%	.39	175	7.00		
9930-6	5.62	143	0.6%	.42	189	7.20		
9930-6N	5.62	143	0.0%	.42	189	7.20		
9930-7	5.88	149	0.6%	.45	202	7.40		
9930-7N	5.88	149	0.0%	.45	202	7.40		
9930-8	6.12	155	0.6%	.47	211	7.60		
9930-8N	6.12	155	0.0%	.47	211	7.60		
9930-9	6.38	162	0.6%	.49	220	7.60		
9930-9N	6.38	162	0.0%	.49	220	7.60		
9930-10	6.62	168	0.6%	.53	238	7.80		
9930-10N	6.62	168	0.0%	.53	238	7.80		
9930-11	6.68	170	0.6%	.56	251	8.00		
9930-11N	6.68	170	0.0%	.56	251	8.00		
9930-12	7.12	181	0.6%	.58	261	8.00		
9930-12N	7.12	181	0.0%	.58	261	8.00		
9930-13	7.38	187	0.6%	.61	274	8.40		
9930-13N	7.38	187	0.0%	.61	274	8.40		
9930-14	7.62	194	0.6%	.64	287	8.40		
9930-14N	7.62	194	0.0%	.64	287	8.40		
9930-15	7.88	200	0.6%	.67	301	8.60		
9930-15N	7.88	200	0.0%	.67	301	8.60		
9930-16	8.12	206	0.6%	.70	314	8.80		
9930-16N	8.12	206	0.0%	.70	314	8.80		
9930-17	8.38	213	0.6%	.73	328	8.80		
9930-17N	8.38	213	0.0%	.73	328	8.80		
9930-18	8.62	219	0.6%	.76	341	9.00		
9930-18N	8.62	219	0.0%	.76	341	9.00		
9930-19	8.88	226	0.6%	.79	355	9.20		
9930-19N	8.88	226	0.0%	.79	355	9.20		
9930-20	9.12	232	0.6%	.82	368	9.40		
9930-20N	9.12	232	0.0%	.82	368	9.40		

٠.		0070 #05 #	CM 10/16 v 1/0 longitudinal selvi		0-14	7.02	194	0.6%	.04	287	8.40		
- 8 ≥	*		5-GM - 13/16 x 1/2 longitudinal galv.		0-14N	7.62	194	0.0%	.64	287	8.40		
5		steel slot bar grate (121.10 sq. in.)		0-15	7.88	200	0.6%	.67	301	8.60			
ĺ	*[9870-411-0	GPHD - 1/4 dia perforated galv. steel		0-15N	7.88	200	0.0%	.67	301	8.60		
Ş	2	grate (28.3	80 sq. in.)		0-16	8.12	206	0.6%	.70	314	8.80		
	*	9870-425-0	GHD- 3 1/4 x 3/8 slotted galv. steel		0-16N	8.12	206	0.0%	.70	314	8.80		
п	1	grate (35.2	0 sq. in.)		0-17	8.38	213	0.6%	.73	328	8.80		
N V	*	9870-430-	SSM - 13/16 x 1/2 longitudinal stainles		0-17N 0-18	8.38 8.62	213 219	0.0%	.73 .76	328 341	8.80 9.00		
4 5	Š		ar grate (121.10 sq. in.)	993	0-18N	8.62	219	0.0%	.76	341	9.00		
Į,	*		SSHD - 3 1/4 x 3/8 slotted stainless		0-1014	8.88	226	0.6%	.79	355	9.20		
П	j l		(42.60 sq. in.)		0-19 0-19N	8.88	226	0.0%	.79	355	9.20		
N	*	•	SSP - 1/4 dia perforated stainless steel		0-20	9.12	232	0.6%	.82	368	9.40		
SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE	j	grate (28.3			0-20N	9.12	232	0.0%	.82	368	9.40		
F	2	`	20.30 \$4. 111.)										
<u>a</u>	2 *		9-MD - Mosaic pattern ductile iron grate Note: Channel flow rates based on channels less grates and open ended.										
-	5 ,	(19.50 sq.		Note:	Note: The grate securing bolts must remain secured in the grate and tightened to the locking								
L	*	core see as men rance patients accome non grand		2	bar installed in the channel. If the grate securing bolts are removed for maintenance of the								
Ü		(35.98 sq.	,		trench drain, they must be replaced and re-tightened. If the grate securing bolts are left out of								
N V	* [D - Iron Decorative pattern ductilr iron		the grates, the life span of the trench drain system could be affected along with the safety								
	5	grate (19.00 sq. in.)			of pedestrian traffic.								
Ę	* [9870-492-	RC - 1 1/2 x 13/16 slotted resin	***No+	***Note: When installing the 0030 RO bettem outlet but an channel #1 #1N #2 or #2N o								
μ		composite		***Note: When installing the 9930-BO bottom outlet hub on channel #1, #1N, #2 or #2N, a slight modification is required to the hub due to the close proximity of the channel frame at the top of the channel to the accessory rail. This modification will require that the angled tabs on									
Ü	*	9870-462-											
α Π	!	slotted grate (34.10 sq. in)			the clips at the top of the hub must be trimmed off. The clips will have to be pried over the								
9870-478-MADA - longitudinal slot ductile iron accessory rail with a screwdriver. Refer to page 12 in the in													
grate (22.50 sq. in)													
N I													
2	*S	Supplied with Qu	ickLok® securing device regularly furni	shed									
1	w	7-27-21	Revised Load Class C	KK	PJ	WEIGHT	VOLUM	1E	FIGURE N	UMBER			
1	V U	3-20-19 11-1-18	Revised Load Class C Added 9870-478-MADA	MW TBW	PJ PJ	POUNDS	CUBIC	FEET			_		
1	Ιř	9-9-14	Deleted 9870-476-WADA Deleted 9870-440-VF/VF2	TBW	PJ				aa	30B	S		
	REV.	DATE	DESCRIPTION	BY	CKD. BY	1			33	JUD.			
•	_												