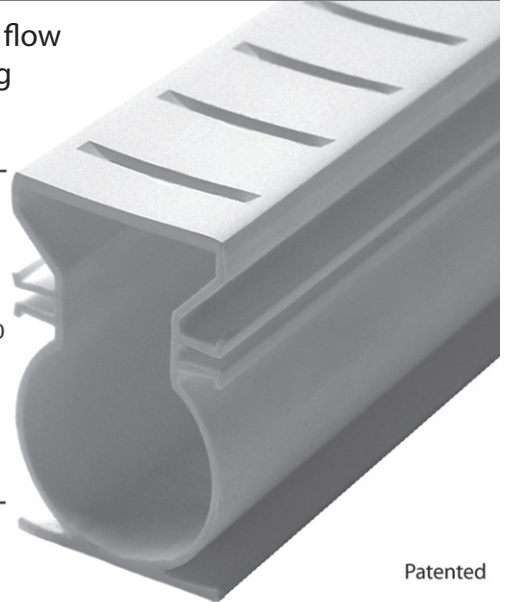
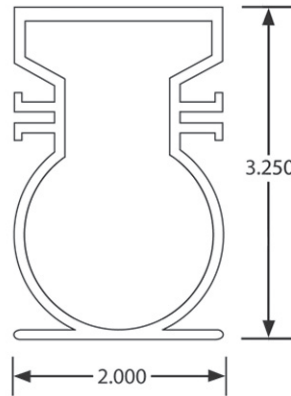


SUPER DRAIN

Super Drain is a technically superior round drain designed for maximum flow capacity, durability and ease of installation. Super Drain features a nailing guide, which also acts as a true water seal against moisture transfer to the subsoil. A full range of non-directional fittings, adapters and end clips are available, although you may construct your own out of 1-1/2" schedule 40 P.V.C. pipe. Because Super Drain fits flush on both sides, it stakes more securely (no more roll over).

FLOW RATE: Drain Calculations



Patented

Assumptions/ Constants:

Gradient - Slope (S) 1 in 200 (0.5%)	0.005 ft/ft, Contains UV inhibitors
Surface Roughness (Mannings n)	0.009 Plastic (PVC & ABS)
Rainfall Intensity (I) (TxDOT Manual)	5.8 in/hr for 10 year storm with time of concentration = to time of duration of 20 min.
Runoff Coefficient (C) (TxDOT Manual)	0.95 For concrete city streets 0.9 - 0.95 - i.e. all concrete pool deck

DRAIN NAME	Area A (ft ²)	Wetted Perimeter P (ft)	Hydraulic Radius R (ft)	Velocity V (ft/s)	Capacity - Q			Catchment Area - A			Length (ft)
					(cfs)	(liters/sec)	(gal/min)	(Acre)	(ft ²)	(m ²)	
SUPER DRAIN	0.029	0.627	0.046	0.675	0.020	0.6	8.8	0.004	155	14	1

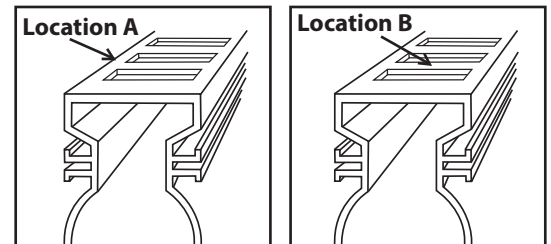
Notes/Equations:

- Above Catchment area based upon 1 foot, 1 meter, etc of the drain section.
- $R = A/P$
- $v = (1.49/n) * (R)^{(2/3)} * (S)^{(1/2)}$
- $Q = vA$
- $A = Q/CI$

LOAD TESTING:

SUPER DRAIN	DEFLECTION TO HORIZONTAL LINE		PUNCTURE/PERMANENT DEFORMATION MORE THAN 1/2"	
	LOCATION A	64 psi	LOCATION A	277 psi
	LOCATION B	58 psi	LOCATION B	273 psi

Impact Figures:



Cartons includes: 80' Super Drain, 8 Couplers and 4 End Clips.

Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax: