



Product Submittal Sheet

Tech Support: 800-382-5430 www.stegmeier.com

FRONTIER DECK DRAIN PRO

"Removable Top Drain"

Frontier Deck Drain Pro is a removable top drain that features a double wall base and snap in top (PVC). When installing this drain the tops are staggered past the joints making the joints very rigid. Because the tops are removable, this drain is easy to clean and the tops can be replaced if ever damaged. Frontier Deck Drain Pro is used in many residential and commercial swimming pools, patios and other pedestrian traffic areas.



Drain Calculations

Assumptions/Constants:

Gradient - Slope (S) 1 in 200 (0.5%) Surface Roughness (Mannings n) Rainfall Intensity (1) (TxDOT Manual) Runoff Coefficient (C) (TxDOT Manual) 0.005 ft/ft, Contains UV inhibitors 0.009 Plastic (PVC & ABS)

5.8 in/hr for 10 year storm with time of concentration = to time of duration of 20 min. 0.95 For concrete city streets 0.9 - 0.95 - i.e. all concrete pool deck

3 .500



Patented

Γ	Area	Wetted Perimitter	Hydraulic Radius	Velocity	Flow Rate	Catchm	ent Area - A		Length
DRAIN NAME	A (ft²)	P (ft)	R (ft)	Velocity V (ft/s)	(gal/min)	(Acre)	(ft²)	(m²)	(ft)
FRONTIER DECK DRAIN PRO	0.029	0.573	0.051	1.602	18	0.008	367	34	1

Notes/Equations:

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

LOAD TESTING:		DEFLECTION TO HORIZ	ONTAL LINE	PUNCTURE/PERMANENT DEFORMATION MORE THAN 1/2"		
	FRONTIER	LOCATION A	175 psi	LOCATION A	432 psi	
	DECK DRAIN PRO	LOCATION B	153 psi	LOCATION B	562 psi	

Impact Figures:

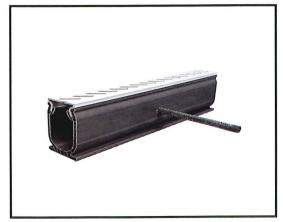




Cartons includes: 80' Base, 80' Top Cap, 8 Couplers and 4 End Adapters.

Recommended Stabilization:

To protect the drain from movement of the concrete, it is recommended to drill and pin the base of the drain midway, using a coated or non-metallic rigid reinforcement material. This dowel may be part of the reinforcement of the concrete slab but short bars are also effective, as their purpose is to hold the concrete apart, stabilizing the base of the drain.



Protect Information	Contractor Information	Architect Information	- 3
Name:	Name:	Name:	
Address:	Contact:	Contact:	
	Phone:	Phone:	
	Fax:	Fax:	