

# ENGINEERING COMMUNIQUÉ

JAY R. SMITH MFG. CO.® ♦ JANUARY, 2012 ♦ VOLUME 2- ISSUE 1



**From:  
THE SMITH ENGINEERING GROUP**

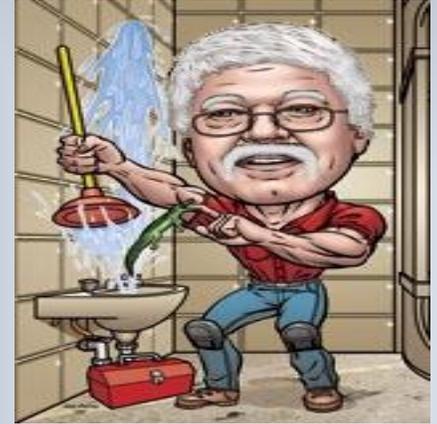
## **PRODUCT ALERT: Green Roof Drains, SQ-1-4341**

SQ-1-4341 is a modification to fig. no. 1909 planting area drain creating another unique green roof drain application. In this particular application, this drain serves as the main drain receiving water from two other roof planting areas. A vertical seam of fine rock surrounds the stainless steel perforated sleeve preventing the soil from seeping into the drain while allowing excess water to trickle through the soil and rock.

A dome provided at the surface prevents stoppage from debris since this drain serves as the main discharge for surface drainage. Two inlets are provided to receive the discharge from the adjacent planting areas.

Jay R. Smith has several distinctive green roof drains of different configurations available. Since there are various green roof designs, Smith can design a roof drain to meet any green roof design and configuration upon reviewing the details of the roof and planting area application.

Please see the attached SQ-1-4341 submittal product drawing and visit the web site for additional information; [www.jrsmith.com](http://www.jrsmith.com).



### **GREASE INTERCEPTORS:**

**Myth:** The larger the grease storage, the more efficient the interceptor.  
**Fact:** Grease must be separated from the waste water before it can be stored. Storage capacity and grease removal efficiency are not related.

**Myth:** The grease must cool and harden to separate from the waste water.

**Fact:** Grease interceptors separate based on the difference in specific gravity of FOG and water. Liquefied grease floats just as well as solidified grease. Grease is lighter than water.

**Myth:** Oversizing an interceptor cannot hurt.

**Fact:** Oversizing an interceptor relative to actual flow is a problem. It can result in the generation of hydrogen sulfide gas that can convert to hydrochloric acid. Both metal and concrete structures downstream can suffer severe structural damage from this acid.

**Myth:** With the change to healthier cooking oils, there is less of a FOG problem.

**Fact:** Cooking oils that are healthier for you are not healthier for the drainage system. They are all hydrocarbons. In fact, some of the new alternative cooking oils with specific gravities closer to water will be harder to capture from the waste water.

A MEMBER OF



**MORRIS GROUP  
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LOCATION

# SPECIAL PLANTING AREA DRAIN

DRAWING NUMBER  
SQ-1-4341

SIZE  
A

SCALE:  
NONE

DATE:  
11/10/10

APPROVED BY:  
TK

CHECKED BY:  
TK

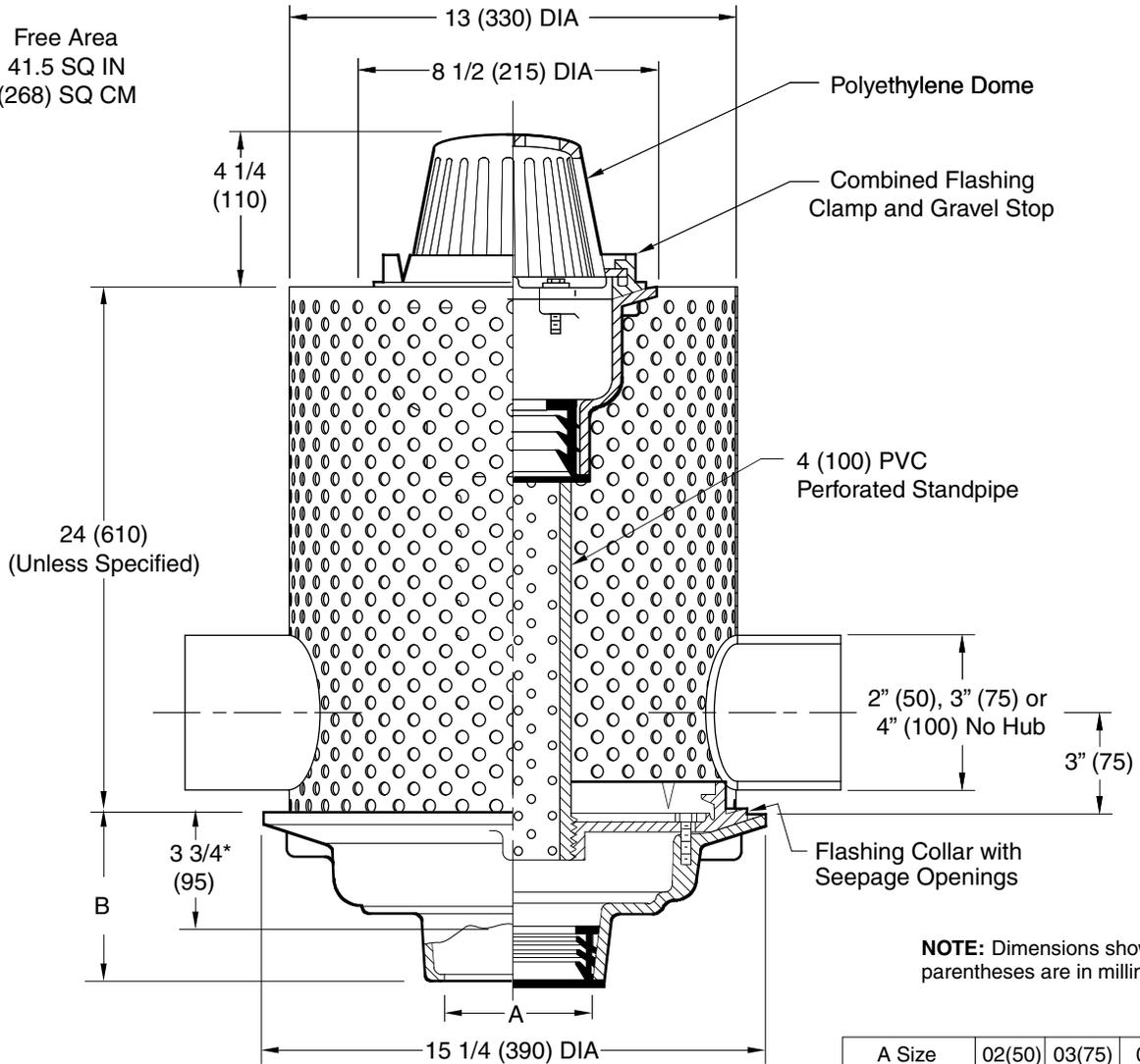
DRAWN BY:  
JJ

**SQ-1-4341**

WE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA

DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

Free Area  
41.5 SQ IN  
(268) SQ CM



NOTE: Dimensions shown in parentheses are in millimeters.

\* This Dimension to Internal Stop of Speedi-Set Gasket.

Fig. SQ-1-4341C ..... CAULK OUTLET  
 Fig. SQ-1-4341Y ..... NO-HUB OUTLET

A Size	02(50)	03(75)	04(100)
B	5(125) for Caulk, No-Hub and Speedi-Set 3 3/4(95) for Threaded		

**REGULARLY FURNISHED:**

Duco Cast Iron Lower Body and Flashing Collar with 4 (100) PVC Perforated Standpipe, Duco Cast Iron Upper Body with Combined Flashing Clamp and Gravel Stop, Polyethylene Dome and Perforated Stainless Steel Sleeve with Auxiliary Side Inlets.

**VARIATIONS:**

- L Speedi-Set Service Weight
- LXH Speedi-Set Extra Heavy
- Solid Standpipe -SP
- Standpipe Covered with Stainless Steel Mesh -SSM
- Threaded Outlet

**OPTIONAL MATERIALS:**

- Aluminum Dome -AD
- Cast Iron Dome -CID
- Galvanized Cast Iron Body & Collar -G
- Galvanized Cast Iron Dome -CIDG
- Rough Bronze Dome -PB

REV.	DATE	DESCRIPTION	BY	CKD. BY

WEIGHT POUNDS

VOLUME CUBIC FEET

FIGURE NUMBER

**SQ-1-4341**