

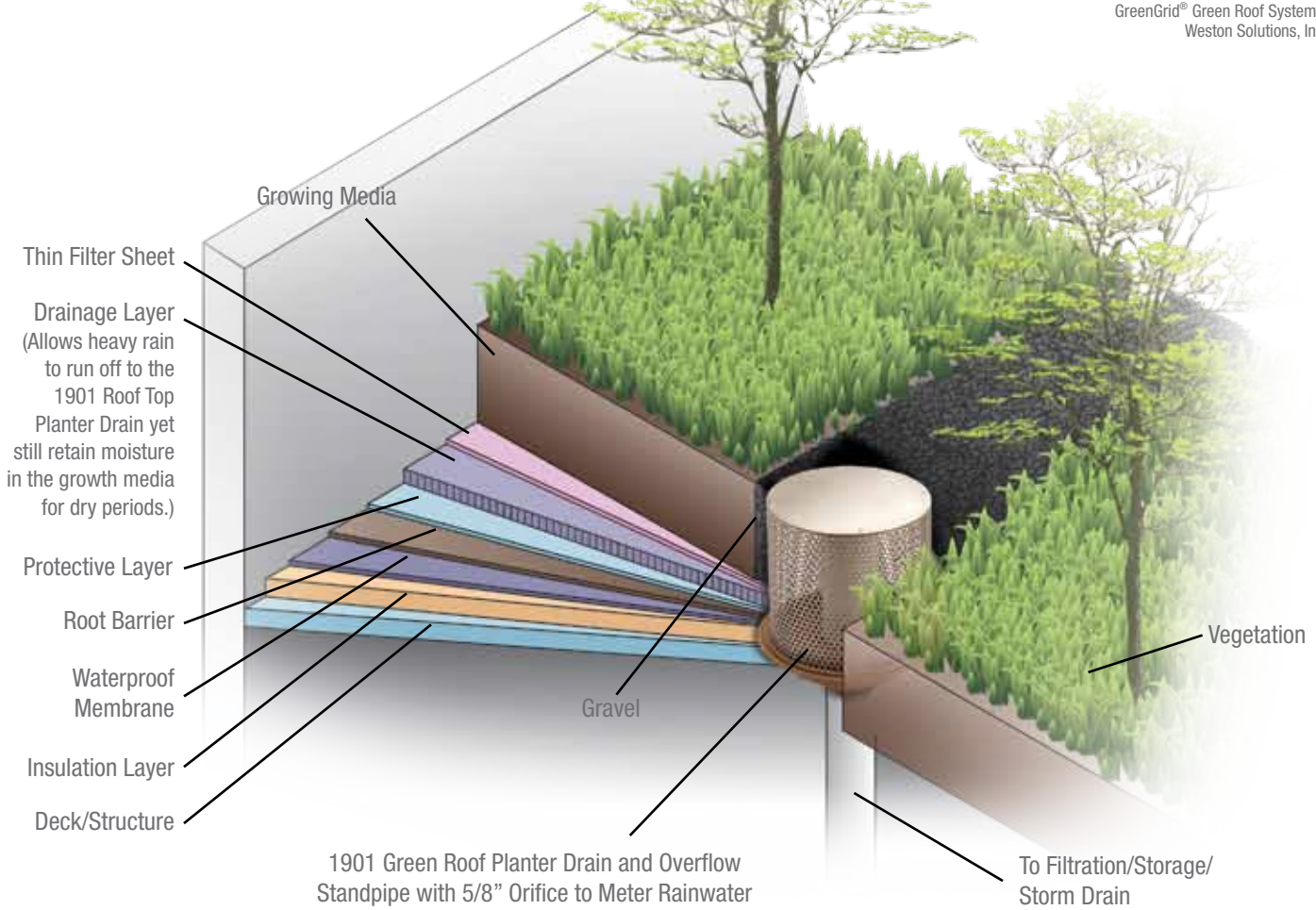


## Intensive Roof Design (Built-In-Place System)

Intensive roof construction requires roof drains that will allow sufficient drainage yet protect the integrity of the growth media and vegetation. The roof drain must allow for sub-surface drainage while providing aesthetically pleasing grates and domes.



GreenGrid® Green Roof Systems,  
Weston Solutions, Inc.



### Intensive Roof - Specialized Green Roof Drains



1900 - Green Roof Main Area Drain with Standpipe



1901 - Green Roof Planter Drain & Overflow Standpipe



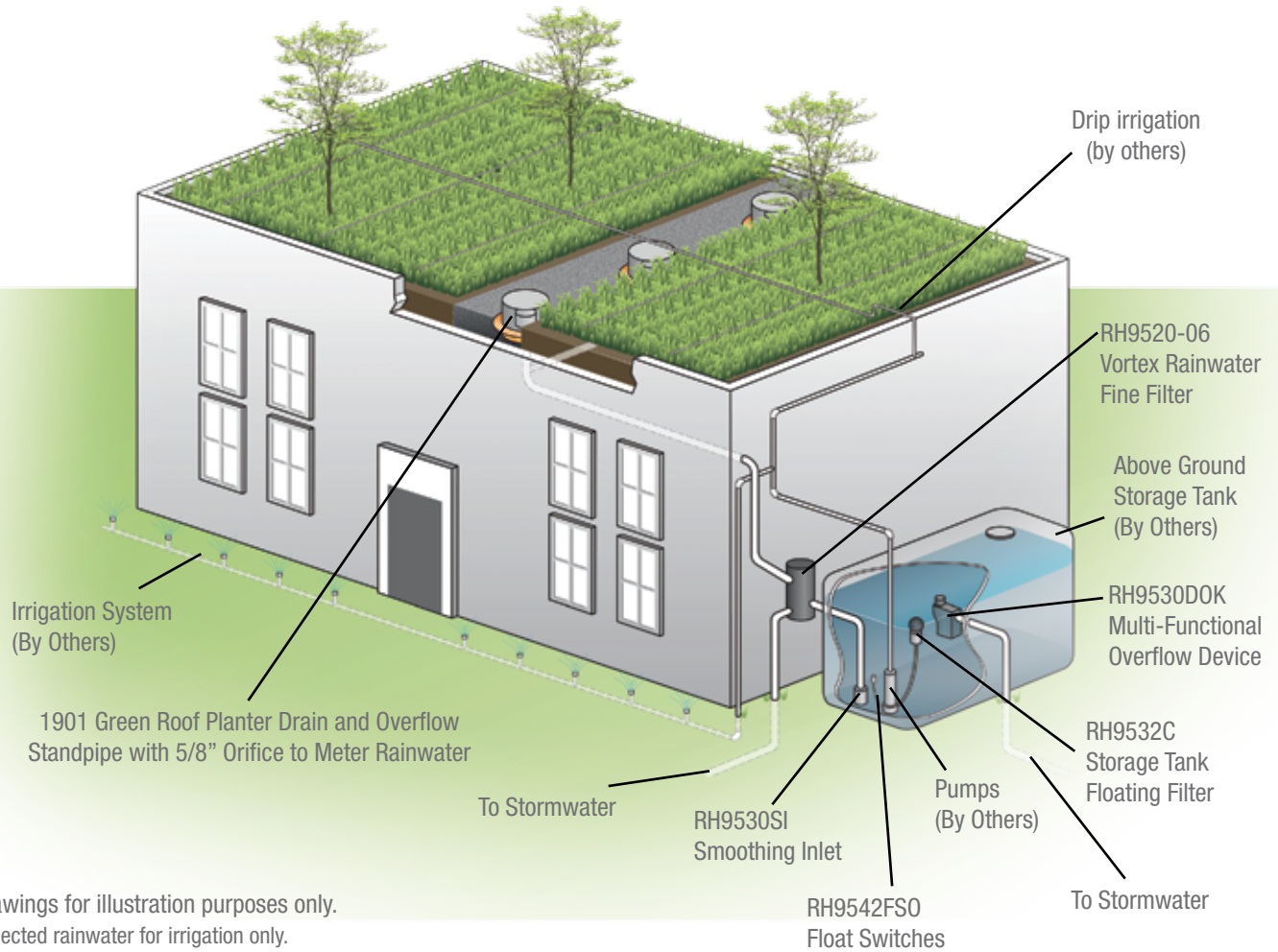
1905 - Multi-Level Planter Area Drain



1909 - Planter Area Drain for Multi-Levels



# Intensive Roof Shown with a Rainwater Harvesting and Drip Irrigation System



Drawings for illustration purposes only.

Collected rainwater for irrigation only.

Rainwater Harvesting products in cooperation with WISY AG and Rainwater Management Solutions (RMS)

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**1913 – Stainless Steel Parapet Green Roof Drain Basin**



**1930 – Planter Area Drain for multiple waterproofing membranes**



**1935 - Green Roof Planter Drain Basin with wide flange body**



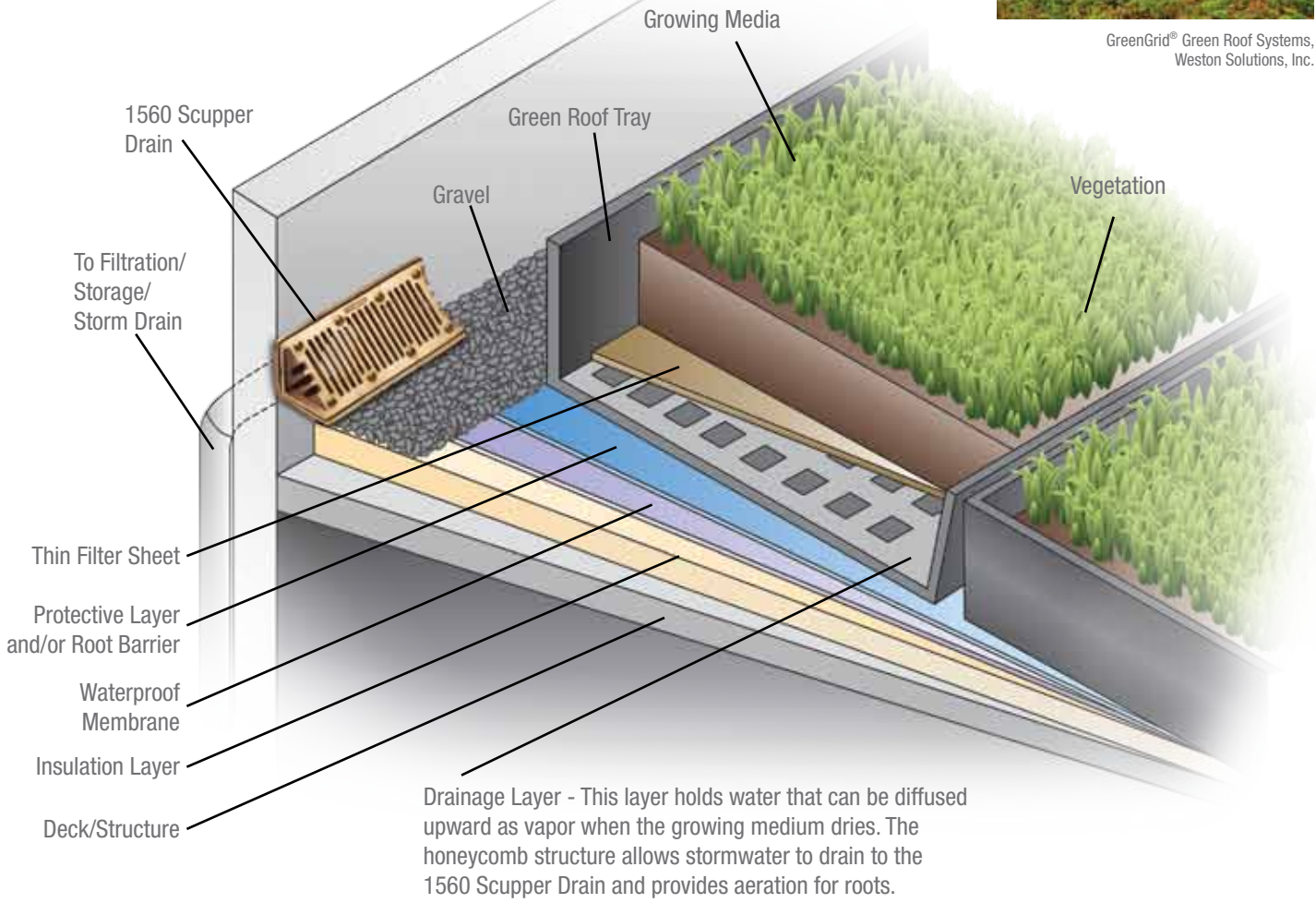
## Extensive Roof Design

(Modular tray System)

Extensive roof construction allows for both traditional and specialized green roof drains depending on tray arrangement. Multi-level or terraced areas may require 1915 or 1920 style green roof drains.



GreenGrid® Green Roof Systems,  
Weston Solutions, Inc.



### Extensive Roof - Specialized Green Roof Drains

### Extensive Roof - Traditional Roof Drains



1915 – Plaza and Planter Drain



1920 – Plaza and Planter Drain



1530 – Scupper Drain



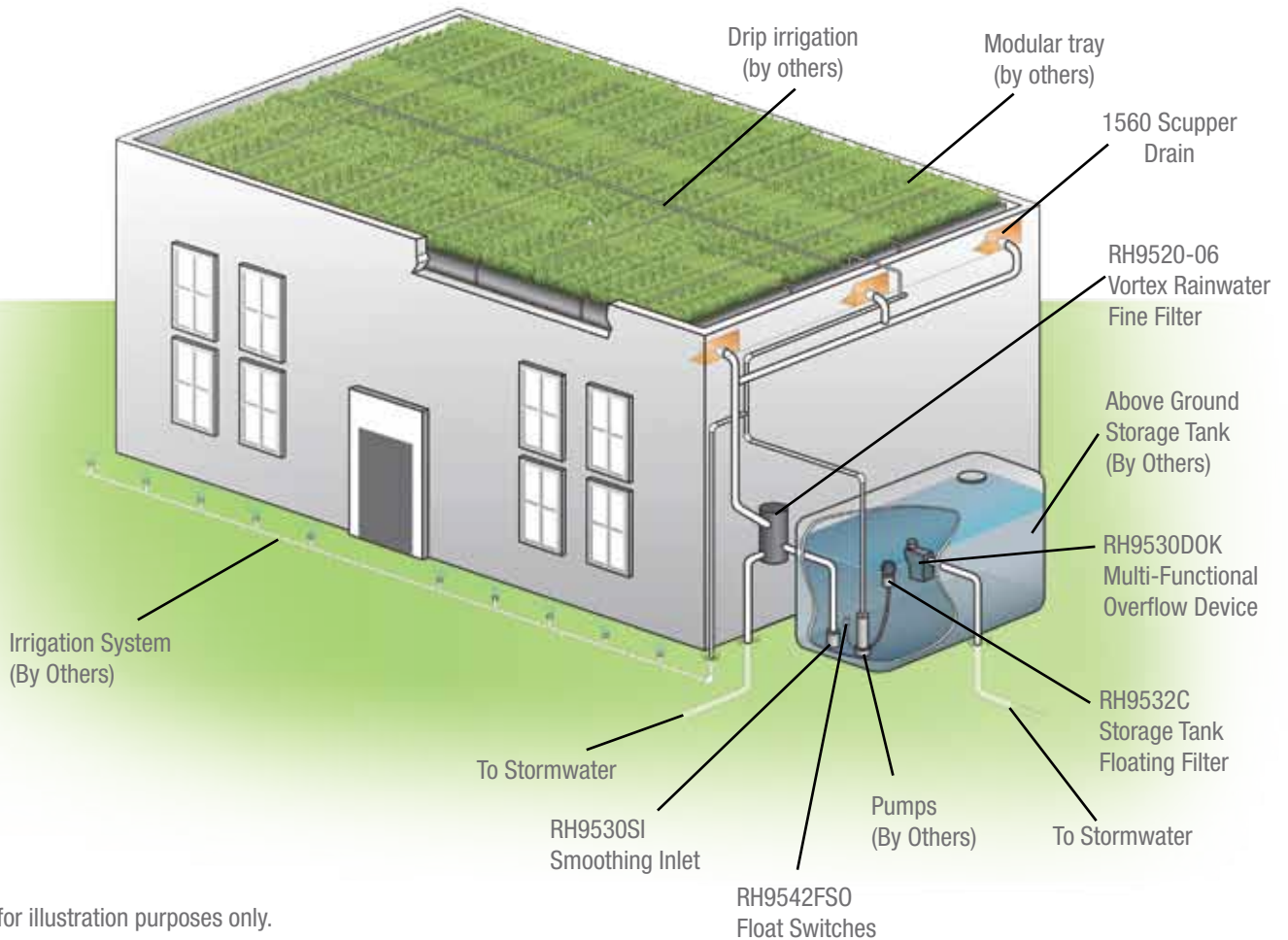
1560 – Scupper Drain



1580 – Scupper Drain



# Extensive Roof Shown with a Rainwater Harvesting and Drip Irrigation System



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**1010 – Large General Purpose Roof Drain**



**DX1010 – Large General Purpose Roof Drain with wide flange body**



**1070 – Large Special Purpose Roof Drain, Overflow Drain-Standpipe Type**

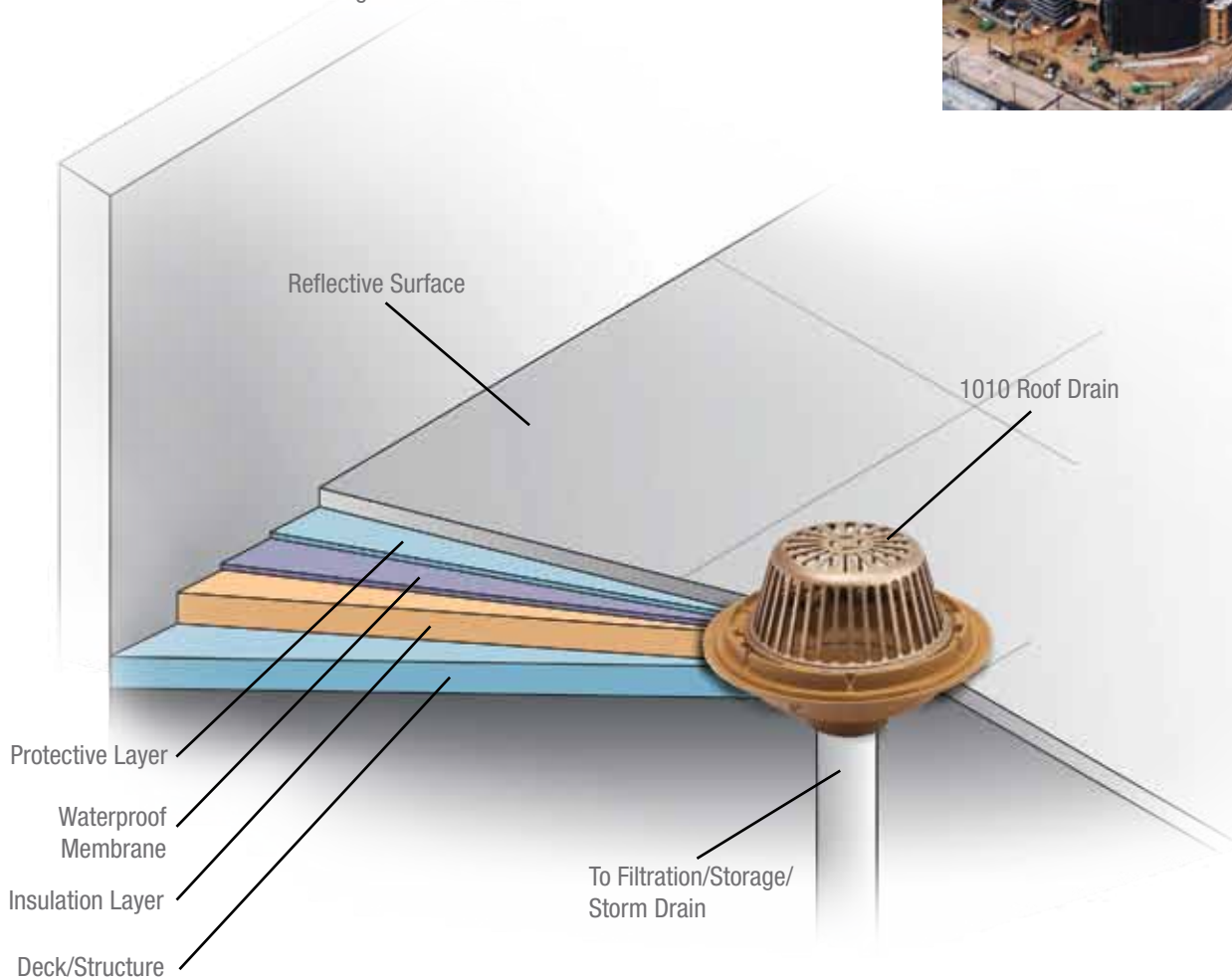


**1080 – Large Special Purpose Roof Drain**



## Cool Roof Design

Cool roof construction allows for traditional style roof drains to be used. This application is ideal for Siphonic Roof Drains and Rainwater Harvesting.



### Cool Roof - Traditional Roof Drains



**1005 – Siphonic Roof Drain**



**1010 – Large General Purpose Roof Drain**



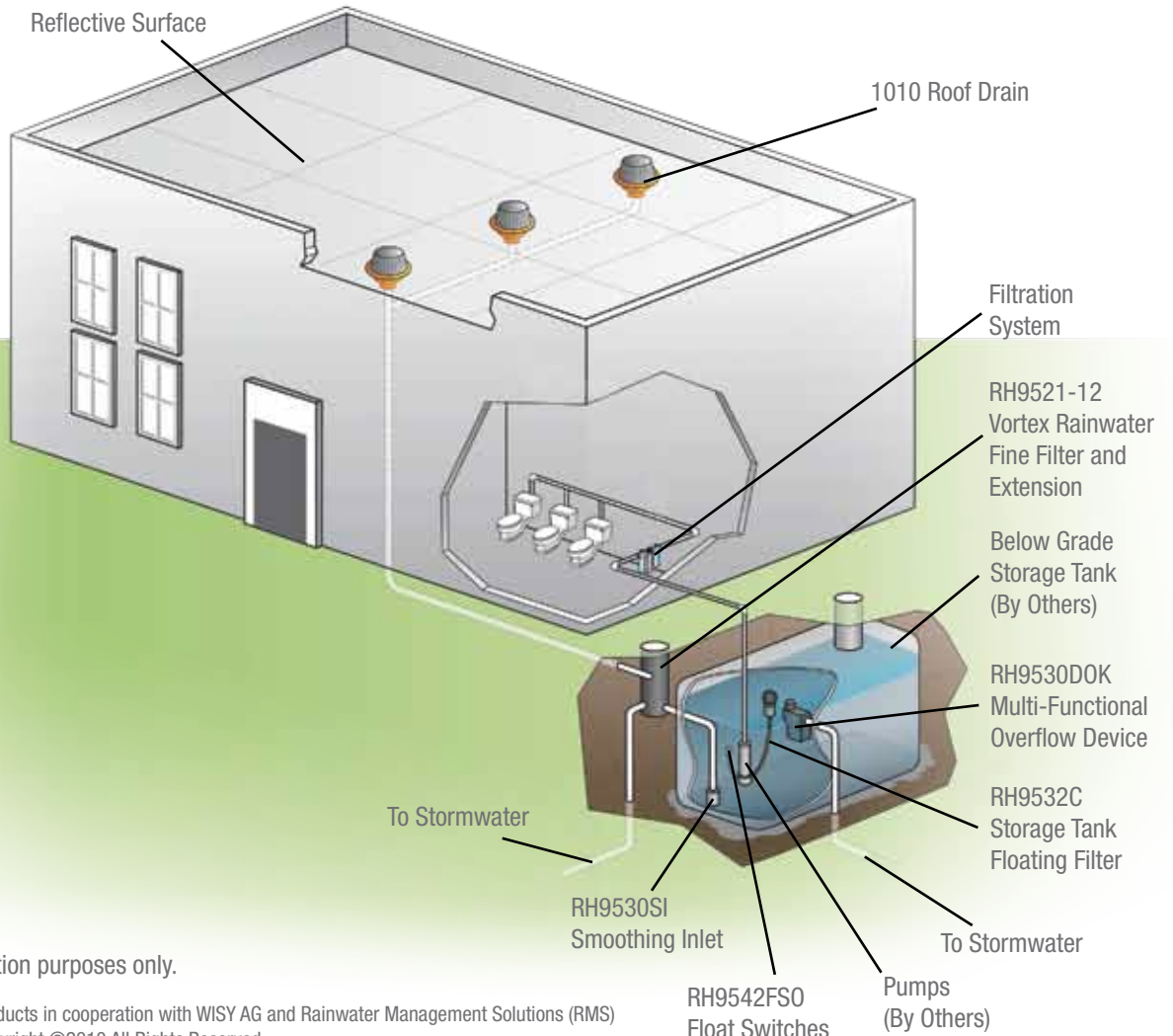
**DX1010 – Large General Purpose Roof Drain with wide flange body**



**1070 – Large Special Purpose Roof Drain, Overflow Drain-Standpipe Type**



# Cool and/or Traditional Roof Shown with a Rainwater Harvesting System



Drawings for illustration purposes only.

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1080 – Large Special Purpose Roof Drain



1310 – General Purpose Roof and Deck Drain



1330 – General Purpose Roof and Deck Drain



1530 – Scupper Drain



1510 – Scupper Drain



1580 – Scupper Drain



# Green Roof and Cool Roof Drains Product Catalog

## Intensive Roof - Specialized Green Roof Drains



**1900 – Green Roof Main Area Drain with Standpipe**

15 1/4" Diameter drain with perforated standpipe. Use in non-pedestrian areas of green roof systems.



**1909 – Planter Area Drain for Multi-Levels**

15 1/4" Diameter drain with perforated standpipe. Medium (8 1/2 Dia.) surface or planting area drain. Standpipe allows limited sub-surface drainage.



**1935 - Green Roof Planter Drain Basin**

Wide flanged (20" Dia.) body for main green roof system drainage areas. Flange allows acceptance of waterproofing membranes.



**1901 – Green Roof Planter Drain & Overflow Standpipe**

15 1/4" Diameter drain with standpipe and 5/8" orifice to meter rainwater. Use an overflow drain in non-pedestrian areas of green roof systems.



**1913 – Stainless Steel Parapet Green Roof Drain Basin**

15 1/4" Diameter main area drain with auxiliary inlet for additional drains. Perforated gravel guard with removable cover for easy access.



**1905 – Multi-Level Planter Area Drain**

15 1/4" Diameter drain with perforated standpipe. Use in multi-level planting areas requiring sub surface drainage and a small (6" Dia.) planting level drain.



**1930 – Planter Area Drain**

Wide flange (20" Dia.) lower drain with 15 1/4" Dia. upper level drain designed to accept multiple waterproofing membranes. Grate on upper drain allows installation in pedestrian areas.

## Extensive Roof - Specialized Green Roof Drains



**1915 – Plaza and Planter Drain**

Medium size (12") multi-level domed drain for non pedestrian areas.



**1920 – Plaza and Planter Drain**

Medium size (12") multi-level drain. Upper level drain furnished with grate for pedestrian traffic.

## Extensive Roof - Traditional Roof Drains



**1530 – Scupper Drain**

45° Threaded Outlet. Used at junction of roof and parapet.



**1560 – Scupper Drain**

90° Threaded Outlet. Used at junction of roof and parapet or in metal lined gutters.



**1580 – Scupper Drain**

Used at specific angles of junction of roof and parapet with connection to outside conductor.



**1010 – Large General Purpose Roof Drain**

16" Diameter, Low Profile Dome. Used in flat roofs of any construction.



# Green Roof and Cool Roof Drains Product Catalog

## Extensive Roof - Traditional Roof Drains



### DX1010 – Large General Purpose Roof Drain

Wide Flange Body with Secured Dome. For use on promenade roof deck and rooftop recreational areas where traffic bearing roof deck covering is to be applied.



### 1070 – Large Special Purpose Roof Drain, Overflow Drain-Standpipe Type

Used in flat roofs of any construction where a constant height of water is desired on the roof.



### 1080 – Large Special Purpose Roof Drain

Overflow Drains-Water Dam Type. Used in flat roofs of any construction where a constant height of water is desired on the roof.

## Cool Roof - Traditional Roof Drains



### 1005 – Siphonic Roof Drain

15 1/4" Diameter, Low Profile Dome. For use in engineered Siphonic roof drainage system.



### 1010 – Large General Purpose Roof Drain

16" Diameter, Low Profile Dome. Used in flat roofs of any construction.



### DX1010 – Large General Purpose Roof Drain

Wide Flange Body with Secured Dome. For use on promenade roof deck and rooftop recreational areas where traffic bearing roof deck covering is to be applied.



### 1070 – Large Special Purpose Roof Drain, Overflow Drain-Standpipe Type

Used in flat roofs of any construction where a constant height of water is desired on the roof.



### 1080 – Large Special Purpose Roof Drain

Overflow Drains-Water Dam Type. Used in flat roofs of any construction where a constant height of water is desired on the roof.



### 1310 – General Purpose Roof and Deck Drain

12" Diameter, Low Profile Dome. Used on flat roof of any construction where a medium sized drain is required.



### 1330 – General Purpose Roof and Deck Drain

8 1/2" Diameter, Low Profile Dome. Used in flat roofs, gutters or valleys of any construction.



### 1510 – Scupper Drain

90° Threaded Outlet. Used at junction of roof and parapet.



### 1530 – Scupper Drain

45° Threaded Outlet. Used at junction of roof and parapet.



### 1580 – Scupper Drain

Used at specific angles of junction of roof and parapet with connection to outside conductor.

## Specialized Planter Drains



### 1906 – Roof Top Planting Area Drain

Medium size (12") lower drain body with small (6") surface level drain. Lower body designed to accept water-proofing membrane.



### 1910 – Roof Drain with Standpipe, Large Area Planter Type

Medium size (12") drain body with perforated standpipe designed for large planting areas. Clamping collar will accept waterproofing membrane.