

## System Specification

Client:		Date:	
Project:	Residential Sedum Greenroof	Quote:	
Description	Residential Greenroof Package <b>(SGR50)</b>		

### Description of system

The package covers a flat green roof area of 50m<sup>2</sup> or a sloping area of 100m<sup>2</sup>.

The package includes dripline, irrigation controller and wireless rain sensor.

### Control system

The system will be operated via Hunter X2 mains powered irrigation controller. This is simple to program using the clear digital display, central programming dial and push buttons. The controller is wall mounted and has a padlockable front cover. A separate 24VAC solenoid valve is supplied to be fitted in the supply riser pipework, this will be hard wired to the controller and 10m of signal cable is supplied for this purpose.

### Rain Sensor

A wireless rain sensor is supplied with the package and this has an operating range of 275m. An interface unit is wired into the controller and the transmitter will be positioned in the green roof area. Should the transmitter detect rain it will suspend system operation immediately and reinstate it if insufficient rain has fallen or after a drying out period.

To comply with current water regulations a 'DB' backflow prevention device is included, which needs to be fitted 300mm above the dripline. It is assumed this will be located at roof level and fitted directly to the roof supply pipe connection point.

### Dripline

The green roof will be irrigated using Permadrip-Pro dripline with a 30cm emitter spacing. This is a robust 16mm brown coloured pipe which has a wall thickness of 1.2mm. The emitters are pressure compensating providing a consistent output of 1.6 L/h. The driplines will be laid on the surface running across the roof and secured either with soil pegs or strapped directly to the sedum matting as appropriate.

All pipe connections will be PoziLock compression type which provide easy assembly combined with a high level of durability making them ideal for this type of application.

### Additional Requirements

It is recommended that before purchasing this watering package a flow test is carried out on the proposed water supply to ensure it will be capable of supplying enough water to run the system (if in doubt consult our sales team).

In addition to this package the following will also be required:

- Dedicated 240vac plug socket located adjacent to the irrigation controller.
- Pipework to roof level terminating in a swan neck arrangement with ¾" BSPM, 400mm above the highest dripline.
- Fittings for in-line solenoid to suit above pipework.
- Mains water supply capable of delivering 535L/h@2.0 bar at roof level (100m dripline).

### General Details

#### *Location of Equipment*

Due to the nature of the equipment, some drainage of water onto the floor is to be expected, during routine maintenance or should a fault develop. It is the responsibility of the client to check the suitability of the proposed equipment and its proposed location before installation.

#### *Connection to Water Supply*

The Water Supply (Water Fittings) Regulations 1999 allow this type of system to be operated from the mains water supply, provided the dripline is not buried, no fertiliser is passed through the system and the supply is protected by a double check valve and DB type pipe interrupter. It is assumed the supply for the system is fitted with a double check valve. It is also a requirement that the Local Water Authority is informed of the intention to install this system.

### *Terms and Conditions*

Warranty information, payment terms and delivery information is contained in the 'Terms and Conditions of Sale for Access Irrigation Limited', available by request or downloadable from our website.

### *Maintenance*

The system should be drained down during periods where frost is likely. Information on maintenance of the system components will be provided with the package.

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