

HYDROSOIL

SOIL BASED EXTENSIVE GREEN ROOF

HYDROSOIL extensive green roof system with its soil based substrate offers great ecological benefits, providing habitat for invertebrates, butterflies, moths and birds. **HYDROSOIL** can be used with a sedum, wildflower or grass blanket but through hydro seeding, plantlets, plug planting or with container grown plants a much wider variety of plants can be grown on the roof.

HYDROSOIL also provides the base for brown roofs replicating the ecological benefits from brown field sites. **HYDROSOIL** can be installed on any of Axter's green roof waterproofing systems and comprises a water reservoir, filter layer, soil based growing medium and plants.

Axter Limited

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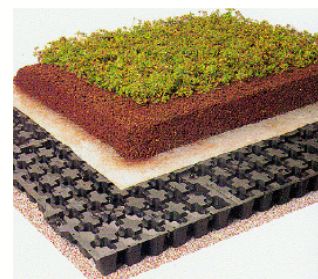
HYDROSOIL	
<i>Substrate saturated weight</i>	<i>60 kg/m² at 6 cm depth</i>
<i>Total saturated weight</i>	<i>80 kg/m² at 6 cm depth</i>
<i>Water reserve</i>	<i>20l/m²</i>
<i>Maximum retention capacity</i>	<i>44l/m²</i>

WATER RESERVOIR

As with all extensive green or brown roofs **HYDROSOIL** incorporates a water reservoir keeping plants alive in periods of drought. Axter offers three alternatives:-

Bac canalis

BAC CANALIS is a recycled polypropylene tray, 59.8 cm x 38 cm, comprising 48 separate beakers containing, when full, 20 l of water/m². The beakers are linked by a lip ensuring an even distribution of water with provision for excessive water, in storm conditions, to be run off. **BAC CANALIS** can be used on both new and refurbishment projects. **BAC CANALIS** withstands a force of 2 tonnes/m² and is ideal for mixed use and/or access roofs. It can also be used as permanent shuttering for hard landscaping purposes.





Technical Data Sheet

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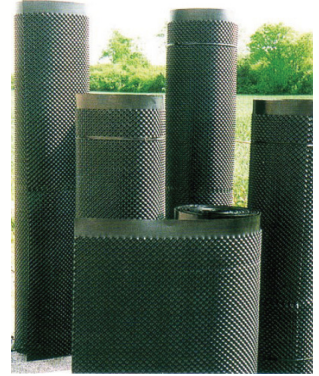
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DRAINAX G is high density polyethylene 8 mm thick alveolar structure with a flat edge on top and with a non-woven filter layer on the external surface. DRAINAX is an alternative to BAC CANALIS, above, but with a much reduced water retention reservoir.



Axter hydroponic mineral substrate

Described as part of the HYDROLITE system, Axter's hydroponic mineral substrate can be used as the water reservoir in conjunction with a suitable topsoil growing medium.



FILTER LAYER

Axter's 200 gm/m² fleece filter layer should be laid over BAC CANALIS or the hydroponic mineral substrate to retain the growing medium.

GROWING MEDIUM

Normally a min. 6 cm layer of an organic growing medium would be applied on top of the water reservoir to provide anchorage for the vegetative plants and to absorb and supply nutrients. This will be designed for the particular plant varieties to be grown on the roof but, in general, it should be free draining, lightweight but also able to absorb and retain water. Seeds can be mixed into the growing medium. Once this is watered they will germinate and provide the vegetative cover.

Axter's extensive green roof substrate is a blend of 100% recycled crushed brick (2-5mm) and green waste compost (0-10mm). The specially matured and graded recycled green waste compost provides optimal stability and minimal leaching of organic matter and nutrients.

The compost is mixed with carefully selected and graded clay aggregate made from recycled UK-sourced clean brick and tile. The substrate has an air-filled porosity greater than 20% v/v to provide good drainage, strong root action and robust healthy growth.

Available in 1m³ tote bags, 25 litre heat sealed bags, or in bulk, Axter's extensive green roof growing substrate provides a high quality green roof growing medium with green provenance (i.e. peat-free derived from 100% recycled UK sourced materials).

A separate datasheet is available on Axter Hydrosol green roof substrate.

PLANTS

These can comprise a sedum, wildflower or grass blanket but can also be plantlets, plugs or container grown plants. Axter can provide a list of suitable species for any application upon request.



Root structure 1 year after initial planting