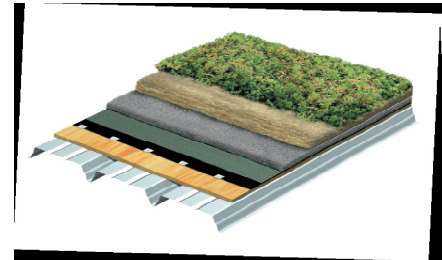




# HYDROLITE



## LIGHTWEIGHT EXTENSIVE GREEN ROOF

HYDROLITE draws on hydroponic technology employed by most glasshouse growers of tomatoes and cucumbers resulting in a lightweight green roof system suitable for use on buildings where weight loading is at a premium, especially on industrial units.



HYDROLITE comprises a hydroponic mineral substrate used as a water retaining layer. This is installed under a sedum, wildflower or grass blanket either alone or with an additional thin layer of a suitable top soil.

### AXTER'S HYDROPONIC MINERAL SUBSTRATE

	Product name	Dimension mm	Dry weight kg/m <sup>2</sup>	Water capacity l/m <sup>2</sup>	Saturated weight kg/m <sup>2</sup>
	<i>Rolls for extensive roof gardens with little or no slope</i>				
	RM 9/25	9000 x 1000 x 25	1.75	18	20
	RM 12/35	12000 x 1000 x 35	1.5	18	20
	<i>Slabs for sloping extensive roof gardens</i>				
	TT 100/40	1000 x 600 x 40	4.0	30	34

On flat or low slope roofs the mineral substrate should be laid on top of a drainage layer such as Axter Drain or Drainax G but on sloping roofs it can be laid directly on top of the waterproofing (warm roof) or the breathable membrane (inverted roof).

Vegetation blankets providing an instant established green roof:-

**Sedum** – Sedum blankets are available pre-planted with up to seven varieties of sedum (*Crassulacaea*) for rolling out directly on top of the hydroponic mineral substrate. Little maintenance is required though Axter recommends a twice annual inspection with the occasional addition of a slow release fertilizer.

*Sedum weight approx. 1.5 kg/m<sup>2</sup> dry or 22 kg/m<sup>2</sup> saturated.*

**Wildflower** – Axter supplies Lindum wildflower blanket offering a far greater diversity of plants and interest than from a sedum blanket alone. Lindum wildflower is a mixture of wildflowers and grasses in a moisture retentive biodegradable felt. Flowering is over a prolonged period creating visual interest and attracting a variety of wildlife.

Maintenance is similar to sedum blankets though it will require one cut a year in the autumn.

*Wildflower weight approx. 15 kg/m<sup>2</sup> dry or 22 kg/m<sup>2</sup> saturated.*

**Grassfelt** – Axter supplies Lindum low maintenance Grassfelt fine turf for that year round green aspect. Quick and easy to install, it simply unrolls to provide a perfect instant greenscape. Grassfelt will require a covering of suitable top soil on the mineral substrate. Grassfelt can be left unmown till the late autumn when it will have grown to a height of about 20 cm. It should then be mown and the clippings removed to avoid a build up of dead material. Grassfelt low maintenance will flower in late May to June producing decorative flower heads. To avoid flowering mowing can take place once in late spring. Alternatively, as the combination of species produces a fine dense turf Grassfelt can be kept as low as 5 mm under a professional maintenance regime.

*Grassfelt weight approx. 12 kg/m<sup>2</sup> dry or 22 kg/m<sup>2</sup> saturated.*

Typical saturated weight of a complete HYDROLITE sedum system is 42 kg/m<sup>2</sup> flat or 56 kg/m<sup>2</sup> sloping.