



Axter have a range of substrates available to suit a variety of living and green roof systems.

### **Hydrosoil Biodiverse Substrate**

A free draining, low nutrient and moisture retentive growing medium made from 100% recycled material in line with the UK Green Roof Code of best practice. Testing conforms within the BS8616:2019 green roof substrate testing methods and was completed by STRI.

#### **Key benefits**

- A free draining substrate suitable for use on intensive and extensive roof systems.
- Recommended substrate depth: 80-150mm.
- Free draining when saturated.
- Allows root penetration.
- Recycled brick/material.
- Green waste meeting strict PAS100 standards.



Physical Properties	
Bulk Density when oven dried	0.876 g cm <sup>-3</sup> (876kg/m³)
Bulk Density at field capacity	1.089 g cm <sup>-3</sup> (1089kg/m³)
Field capacity (% v/v)	32.7% v/v
Total porosity (%)	44.8%
Porosity at field capacity (%)	12.1%

Technical Properties	
Organic matter (% weight)	2.9 %
рН	7.4
Electrical Conductivity (mS cm-1)	2.9 mS cm-1
Phosphate (mgl-1)	269 mgl-1
Potassium (mg I-1)	909 mgl-1
Total nitrogen (%)	0.44%

# **Specification description**

All testing of Axter Ltd Substrate was completed by Sports Turf Research Institute under the BS8616:2019 Specification for Performance Parameters and Test Methods for Green Roof Substrates. A specially blended mix of free draining organic material with clean and screened aggregates. Recycled from certifiable waste products in the building industry to provide a low nutrient water retentive growing medium.

### **Hydrosoil Sedum Substrate**

A free draining, low nutrient and moisture retentive growing medium made from 100% recycled material in line with the UK Green Roof Code of best practice. Testing conforms within the BS8616:2019 green roof substrate testing methods and was completed by STRI.

## **System considerations**

- A free draining substrate suitable for use on extensive roof systems and all plant finishes.
- Minimum recommended depth: 60mm.
- Free draining when saturated.
- Allows root penetration.
- Recycled content.
- Organic material PAS100 certified.



Physical Properties	
Bulk Density when oven dried	0.834 g cm- <sup>3</sup> (834kg/m <sup>3</sup> )
Bulk Density at field capacity	1.115 g cm- <sup>3</sup> (1115kg/m <sup>3</sup> )
Field capacity (% v/v)	25.60% v/v
Total porosity (%)	41.40%
Porosity at field capacity (%)	15.60%

Technical Properties	
Organic matter (% weight)	4.5 %
рН	7.0
Electrical Conductivity (mS cm-1)	2.21 mS cm-1
Phosphate (mgl-1)	293 mgl-1
Potassium (mg I-1)	1072 mgl-1
Total nitrogen (%)	0.86%

## **Specification description**

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### **Hydrosoil Lawn Substrate**

A nutrient-balanced and moisture retentive growing medium made from a blend of soil, compost, lightweight aggregate and crushed brick, suitable for use on intensive roof and podium systems. Testing conforms within the BS8616:2019 green roof substrate testing methods and was completed by STRI.

#### System considerations

- A free drainage substrate suitable for use on intensive roof systems and podium decks.
- Suggested Depth: 200mm± to suit plant depth.
- Free drainage when saturated.
- Allows for root penetration.
- Recycled content.
- Organic material PAS100 certified.



Physical Properties	
Bulk Density when oven dried	0.79 g cm <sup>-3</sup> (791kg/m <sup>3</sup> )
Bulk Density at field capacity	1.17 g cm <sup>-3</sup> (1172kg/m <sup>3</sup> )
Calculated Bulk Density at Saturation	1.54 g cm <sup>-3</sup> (1542kg/m <sup>3</sup> )
Field capacity (% v/v)	45.80% v/v
Total porosity (%)	51.70%
Porosity at field capacity (%)	5.90%

Technical Properties	
Organic matter (% weight)	6.5%
рН	7.2
Electrical Conductivity (mS cm-1)	2.39 mS cm-1
Phosphate (mgl-1)	264 mgl-1
Potassium (mg I-1)	978 mgl-1
Total nitrogen (%)	0.11%

#### **Specification description**

All testing of Axter Ltd Substrate was completed by Sports Turf Research Institute under the BS8616:2019 Specification for Performance Parameters and Test Methods for Green Roof Substrates. Specially blended mix of free draining organic material with clean, lightweight and screened aggregates, to provide a nutrient-balanced water retentive growing medium. Complies with Soil Association standards and certifications.

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