

**FINESSE ROOTLINE GHD85** is designed to eliminate root penetration. It consists of an impermeable high density polyethylene (HDPE) sheet, providing a robust root-proof liner system with the following benefits (for a water permeable root barrier ask for details of **FINESSE ROOTLINE GP**) :

- durable
- lightweight
- flexible and easy to install
- excellent chemical and biological resistance
- resistant to sea water and fertilisers.
- suitable for existing and newly planted trees

**FINESSE ROOTLINE** is effective against Japanese Knotweed and other aggressive root systems. The polymer sheet has high tensile strength and puncture resistance. **FINESSE ROOTLINE** provides an efficient, reliable and cost effective root barrier. Its main applications are in protecting waterproofing in green roof construction, protecting pipes, services, foundations. For applications around tree pits ABG manufactures preformed circles of **FINESSE ROOTLINE** in various diameters and heights. **FINESSE ROOTLINE** is also an alternative to felling or under-pinning of existing foundations.

## PROPERTIES

Type		Impermeable to liquids	
Material		prime HDPE (High Density Polyethylene)	
Thickness @ 2kPa	(mm)	0.85	EN 964-1
Weight	(g/m <sup>2</sup> )	825	EN 965
Carbon black content	(%)	0.8 – 2.5	ASTM D1603
Colour		Black	
Resistance to weathering		To be covered in 14 days	EN 12224
Life expectancy	(yrs)	120 years in pH 4 to 9 at 25°C	
Working temperature	(°C)	-20° - 80°	
Chemical resistance		Excellent resistance to common chemicals	EN 14030
Resistance to microbial attack		No significant effect	EN 12225
Health, safety, environment		INERT . Cut edges can be Sharp. Wear gloves. No known health hazard. No special precautions necessary	

## INSTALLATION

Installation is straightforward using conventional plant and labour. **FINESSE ROOTLINE** may be cut to length and shape with a suitable sharp knife. For green roof applications the **FINESSE ROOTLINE** is laid below the **ROOFDRAIN** water attenuation layer. For vertical applications, typically in trenches, the installation must be to a depth below the expected root level if the barrier is formed on one side of the trench only. Alternatively, the trench can be completely lined on all sides with a continuous wrap of **FINESSE ROOTLINE**. To protect foundations from existing trees, all existing roots must be cut through. **FINESSE ROOTLINE** should be jointed by thermal welding to form an absolutely secure barrier. In less demanding situations the number of joins should be minimised and **FINESSE ROOTLINE** may be jointed using simple overlap of 600mm or overlap of 150mm and two complete strips of **ABSEAL BUTYL TAPE 2S50**. Similarly, any holes cut through the **FINESSE ROOTLINE** for crossing pipes or ducts must be sealed with an additional piece onto the **FINESSE ROOTLINE** and the pipe or duct.

## SUPPLY

**FINESSE ROOTLINE GHD85** is supplied in rolls 1.2m x 50m (other sizes available to special order)

## NOTES

- (1) The values given are indicative and correspond to nominal results obtained in our laboratories and testing institutes. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
- (2) Unless otherwise stated allowable tolerances are  $\pm 10\%$  of the typical value. The tolerance on roll width is 1%.
- (3) The above figures have been obtained from statistical interpretation of test results.
- (4) Final determination of the suitability of any information is the sole responsibility of the user. ABG will be pleased to discuss the use of this or any other product but responsibility for selection of a material and its application in any specific project remains with the user.