

NEWTON 209 ROOTBARRIER

Puncture Resistant Root Barrier Membrane

Rev 1.2 - 23 December 2014

PRODUCT CODE - M32

INTRODUCTION

Newton 209 RootBarrier is designed to eliminate root penetration. It consists of an impermeable High Density Polyethylene (HDPE) membrane, providing robust root-proof protection to the primary waterproofing membrane to green roofs or planters where intrusive root systems are present.

The membrane has high tensile strength and puncture resistance and provides an efficient, reliable and cost effective barrier to provide protection against Japanese Knotweed and other aggressive root systems.

KEY BENEFITS

- Excellent chemical and biological resistance.
- Suitable for existing and newly planted trees and plants.
- Lightweight.
- Durable.
- Resistant to sea water and fertilizers.
- Quick and easy to install.

TYPICAL APPLICATIONS

As a root barrier to protect the waterproofing membrane from root damage within intrusive green roof systems or planters.

SPECIFICATION

Newton Waterproofing Systems are in partnership with RIBA NBS who publish details of our products and systems within their specification clause library to allow Architects ease of specification through their NBS Plus interface. NBS clauses can be accessed via the technical resources area of the web site where a live NBS Feed is available at [NBS Plus Live Feed](#) Our website has drawings available for download here [Technical Drawings](#) and a selection are also available via [FastrackCAD](#)

TOOLS REQUIRED

- Tape measure
- Shears or utility knife

INSTALLATION

Newton 209 RootBarrier should be placed above the primary waterproofing membrane and above Newton 207 DeckDrain if included within the specification. Cut lengths with a utility knife or shears to suit dimension of the surface area, including vertical up-stands. Subsequent lengths of membrane are placed adjacent to the previously rolled out lengths with an overlap of at least 150mm.

NEWTON 209 ROOTBARRIER

Width (m)	1.20	
Length (m)	50.00	
Area (m ²)	60.00	
Packaged Weight (kg)	50.00	
Mass (g/m ²)	825	EN ISO 9864
Thickness at 2 kPa (mm)	0.85	EN ISO 9863-1
Colour	Black	
Material	HDPE	
Compressive Strength - Temporary (kPa)	> 500	ASTM D1621
Compressive Strength - Constant (kPa)	> 1000	ASTM D1621
CBR Puncture Resistance (N)	3000	EN ISO 12236
Service Temperature Range (°C)	-20 to +80	
Life Expectancy (Years)	120	
Chemical Resistance	Excellent	EN 14030
Oxidation Resistance	Excellent	EN ISO 13438

NOTES

Newton 209 RootBarrier is resistant to a wide range of chemicals, rot-proof and unaffected by soil bacteria and fungi. Newton premium-quality products conform to applicable EN and national standards. The values quoted in the table are typical values and are subject to tolerances.

Overlapping joints should be sealed with TWO lines of double sided Newton Waterseal Tape. Holes for service protrusions such as pipes or ducts should be cut neatly and then over-sealed with patches of 209 RootBarrier with a double seal of Newton Waterseal Tape. Pipes or ducts may need priming with Newton 902 prior to final sealing of the patches to the protrusion.

PACKAGING

Newton 209 RootBarrier is supplied in wrapped and labelled 50m long x 1.2m wide rolls. NOTE: Rolls of Newton 209 RootBarrier are HEAVY, each roll weighs 50kg. Rolls should be cut to size at ground level and pieces lifted to the work area, or full rolls should be lifted by mechanical lifting device. Do not attempt to lift full rolls to height, even with a two-person lift.

STORAGE

Newton 209 RootBarrier should be stored away from direct sunlight. Rolls should be stored in the upright position.

HEALTH & SAFETY

Newton 209 RootBarrier should only be used as directed. There is no legal requirement for a Material Safety Data Sheet MSDS for this product. PPE should be worn at all times when working on building sites including eye protection when drilling or fixing. Working at height and working within excavations safety procedures should be adhered to for your personal protection. See Newton System 200 Drainage Membranes MSDS for advice on handling and cutting which is available on request from Newton Waterproofing or online via our web site. Please see contact details below.