

Appendix G

Root Barrier & Cellular Storage Correspondence

Lindsay Cunningham

From: Lisa Rossi [REDACTED]
Sent: 05 August 2025 10:14
To: Stuart Chaw [REDACTED]
Cc: Lindsay Cunningham [REDACTED]; outgoingmail [REDACTED]
Subject: FW: Cellular Storage Technical Query [9165]

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[Report](#)

Hi Stuart,

Whilst we wouldn't recommend planting trees above the tank. If the trees are selected for the space available and installed within trees with root protection barrier placed around the tank there should be no issue with them installed as shown in the sketch below.

Any further questions let me know.

Thanks
Lisa



LISA ROSSI
Head of Sales – Stormwater North



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From: Stuart Chaw [REDACTED]
Sent: 01 August 2025 10:53
To: Info [REDACTED]
Cc: Lindsay Cunningham [REDACTED]
Subject: Cellular Storage Technical Query [9165]

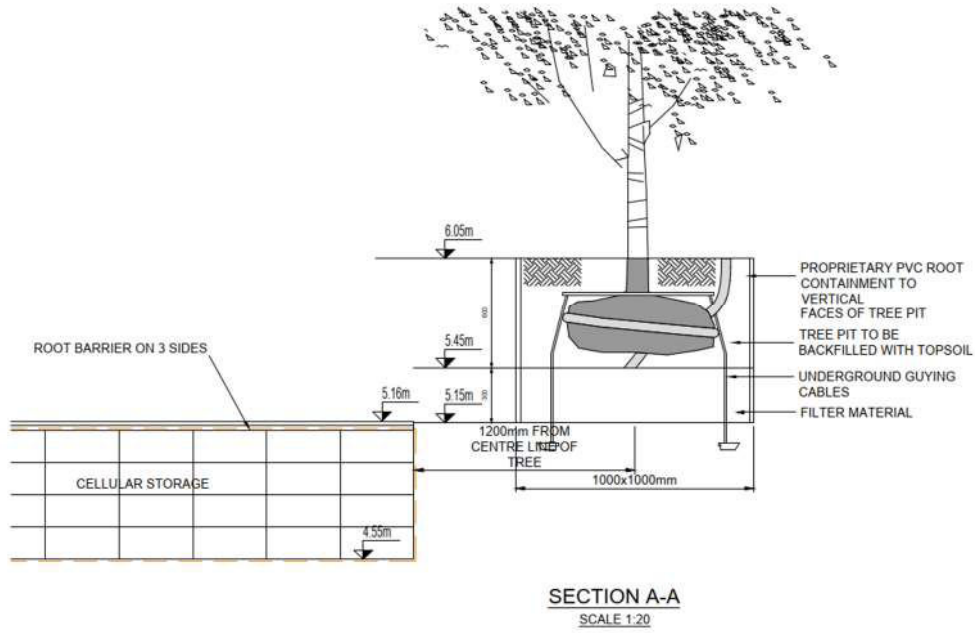
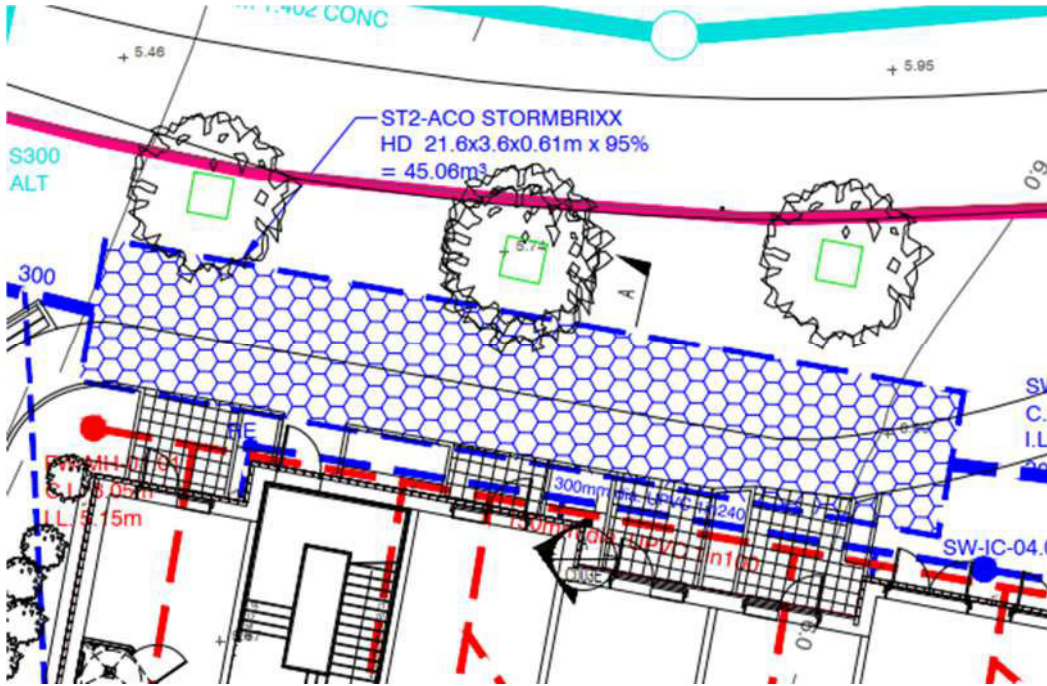
Good morning,

We are proposing to install Graf Ecobloc Maxx cellular storage on one of our projects.

The attenuation will be located within landscaped areas, and as such will have trees installed in close proximity. They will however be contained within root containment pits, and be offset from the attenuation by around 1.2m.

Could you please confirm that the below location of the attenuation in relation to the tree pits is acceptable? Thanks.

P.S – our specification has changed to Graf Ecobloc Maxx from the ACO stormbrixx previously shown on our drawing!



Kind Regards,
Stuart



Stuart Chawk BSc (Hons)
Project Engineer
[Redacted]
Charles Scott and Partners
349 Bath Street | Glasgow | G2 4AA

**WE ARE MOVING OFFICE ON 29TH AUGUST 2025 TO
300 BATH STREET | GLASGOW | G2 4JR**

Lindsay Cunningham

From: Ben Longman [REDACTED]
Sent: 22 August 2025 12:51
To: Lindsay Cunningham
Cc: outgoingmail
Subject: RE: 9418: Cellular Storage Technical Query [9165]
Attachments: NewSeal 409 RootBarrier TDS V5.5_28.03.23.pdf

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Hi Lindsay,

After further discussion at this end the most appropriate application for 409 Root Barrier would be to treat it as protection for your main attenuation / waterproofing layer as opposed to acting as an impermeable liner itself. This is designed for protection as a barrier against root ingress as required.

I hope this helps.

Regards,

Ben Longman C.S.S.W
Business Development and Operations Manager
Newton Waterproofing Systems

[REDACTED] Newton House
[REDACTED] 17-19 Sovereign Way
[REDACTED] Tonbridge, Kent, TN9 1RH

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From: Lindsay Cunningham [REDACTED]
Sent: 22 August 2025 12:32
To: Ben Longman [REDACTED]
Cc: outgoingmail@csandp.co.uk
Subject: 9418: Cellular Storage Technical Query [9165]

Regards



Lindsay Cunningham BEng (Hons) CEng MICE MCIWEM
Associate
[REDACTED]
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349 Bath Street | Glasgow | G2 4AA

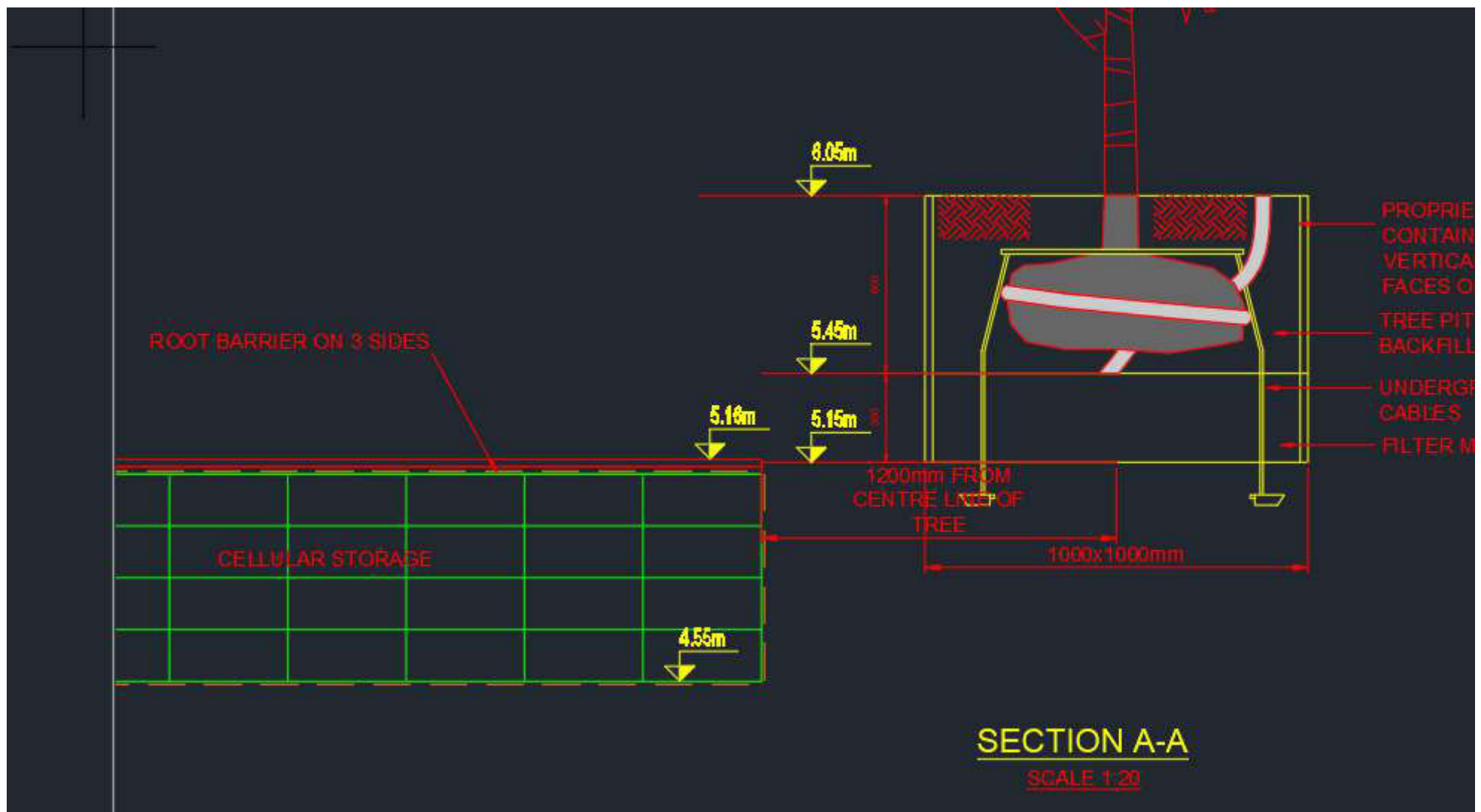
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From: Lindsay Cunningham
Sent: 22 August 2025 12:30
To: [REDACTED]
Cc: [REDACTED]
Subject: 9418: Cellular Storage Technical Query [9165] [Filed 22 Aug 2025 12:30]

Hi Ben.

We are providing details for our client, a care home in Pagham, England.

We are providing root barrier protection around SUDS cellular storage features as shown in the extract below. We are also looking at root barrier protection as shown on section below. Permeable paving would be located above the cellular storage. We are proposing on using one of your products for this purpose.



1. Would the root barrier prevent damage to the nearby permeable paving and would it prevent damage the impermeable liner?
2. Is the above suitable to protect the drainage components from root damage?
3. Does the above proposal seem acceptable? If not, please let us know of any proposals that would be suitable.

Grateful for a speedy response on this.
thanks

Regards



Lindsay Cunningham BEng (Hons) CEng MICE MCIWEM
Associate

Charles Scott and Partners
349 Bath Street | Glasgow | G2 4AA

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NewSeal 409 Root Barrier

Puncture Resistant Root Barrier Membrane

Revision: 5.5 - 28th March 2023
Code: M32

INTRODUCTION

NewSeal 409 Root Barrier is designed to eliminate root penetration. It consists of an impermeable High Density Polyethylene (HDPE) membrane. The NewSeal 409 Root Barrier is robust root-proof protection to the primary waterproofing membrane and to green roofs or planters where intrusive root systems are present.

The membrane has high tensile strength, puncture resistance and provides an efficient, reliable and cost effective barrier to give 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 fertilisers
- 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 work in partnership with RIBA NBS who publish our products on [NBS Source](#). The platform integrates seamlessly into project workflows, providing all product data from Newton's NBS BIM Objects, NBS Plus Clauses and RIBA Product Selector into one single source of product information.

NBS Source also hosts a large selection of Newton [case studies](#), as well as product [literature and certifications](#).

A wide range of drawings are available [on our website](#).

TOOLS REQUIRED

- Tape measure
- Shears or utility knife

HEALTH & SAFETY

NewSeal 409 Root Barrier should only be used as directed within this Data Sheet. There is no legal requirement for a Safety Data Sheet (SDS) for this product. PPE should be worn at all times when working on building sites including eye protection when drilling or fixing. Safety procedures should be adhered to when working at height and working within excavations for your personal protection.

INSTALLATION

NewSeal 409 Root Barrier should be placed above the primary waterproofing membrane and above [NewSeal 408 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. Overlapping joints should be sealed with two lines of double sided [CDM Tape](#).

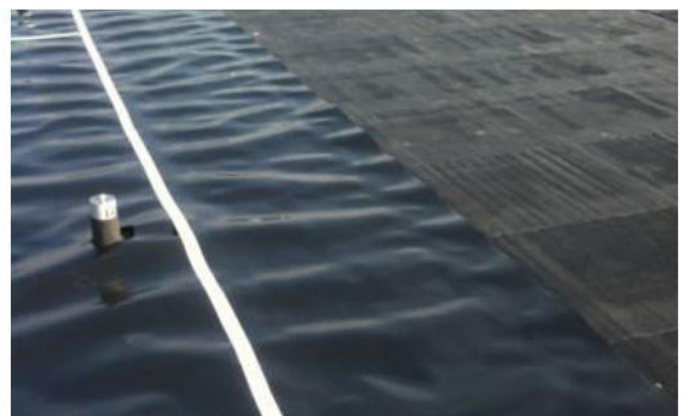
Service penetrations: Cut the membrane neatly to the penetration and then seal with [Newton CDM Rope](#), after cleaning and abrading the service penetration.

PACKAGING

NewSeal 409 Root Barrier is supplied in wrapped and labelled 50m long x 1.2m wide rolls. NOTE: Rolls of NewSeal 409 Root Barrier are HEAVY, each roll weighs 44kg. Rolls should be cut to size at ground level and pieces lifted to the work area, or full rolls should be lifted by a mechanical lifting device. Do not attempt to lift full rolls to height, even with a two-person lift.

STORAGE

NewSeal 409 Root Barrier should be stored away from direct sunlight. Rolls should be stored in the upright position.



NewSeal 409 Root Barrier

Puncture Resistant Root Barrier Membrane

TECHNICAL DATA

Features	Result	Units
Width	1.2	m
Length	50.00	m
Area	60	m ²
Membrane thickness @2kPa	0.85	mm
Density	825	g/m ²
Packaged weight	44.00	kg
Service temperature	-20 to +80	°C
Carbon black Content	0.8-2.5	%

Installed Performance	Result	Units	Test Method
CBR puncture resistance	1500	N	EN ISO 12236
Resistance to chemicals	Excellent		EN 14030
Resistance to weathering	To be covered in 28 days	UV	EN 12224
Resistance to microbial attack	No Significant Effect		EN12225
Design Life	120 years (manufacturer's declaration)		

Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our [website](#) for the latest versions.