MG ARCHITECTS

Basement, 28 Church Row, London NW3 6UP
Application for Listed Building Consent

DESIGN AND ACCESS STATEMENT

11 October 2016

1. Significance of the architectural, historical interest and character of the building

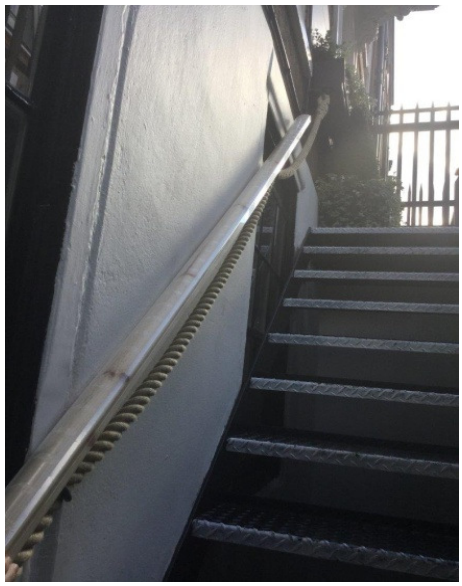
1.1 28 Church Row is in the Hampstead Conservation Area, London Borough of Camden. The proposal concerns the basement which is used as a restaurant.

1.2 It is a Grade II* listed building, the Historic England List Entry summary below:
No.28, now offices with basement restaurant. Probably built by 1720; refaced late C19 in Georgian style by Charles Bean King, a builder who specialised in Neo-Georgian work in Hampstead and whose office was at No.28. No.28: yellow stock brick. Slated roof with dormers. 3 storeys, attic and basement. 3 windows wide, with left-hand entrance similar to No.27. Gauged brick cambered arches to slightly recessed sashes with exposed boxing. Entablature fascia at 1st floor level where oversails adjoining No.13A Heath Street, with two windows (taller and wider) and two window return to Heath Street. Stone cornice. On left-hand angle, a late C19 elaborate lamp bracket of foliated scroll design with central floral feature, with Nico lantern.

2. Principles of and justification for the proposed works to the basement

2.1 Consent is sought to replace the existing rope handrail to the external step from pavement level down to basement in the front lightwell with a new fixed timber handrail. The stair is used by the public for access to the basement restaurant and the owner wishes to upgrade the handrail in line with Park K Building Regulation requirements to ensure safety for all visitors, including the less able.

Existing stair and rope handrail



Example of timber handrail proposed

2.2 Consent is sought for waterproofing works to the existing vaults under the pavement to the front of the building which are currently damp and require remedial work. Specialist reports have been obtained which recommend the Newton System 500 as the least intrusive system suitable for use on a listed building. The water collected will be directed to existing drains. Details of the system are appended to this statement.

Existing vault

2.3 Details of the proposed work are shown on MG Architect's drawings no. 881/31, 32 & 33

3. Impact of the proposal

It is considered that the impact of the proposal on the special interest of the listed building or structure, its setting, and the setting of adjacent listed buildings is minimal.

The proposals will have a positive effect by improving public access to the building and maintaining the existing fabric.

APPENDIX

A Pre-application correspondence with Camden Planning Authority
B Vault survey report and Newton System details

APPENDIX

EMAIL CORRESPONDENCE WITH CAMDEN PLANNING OFFICERS

From: "Stroud, Alfie" <Alfie.Stroud@camden.gov.uk>
To: Mayank Patel <mpatel@tripolus.co.uk>
Cc:
Date: Fri, 30 Sep 2016 13:42:59 +0100
Subject: RE: 28 Church Row - Visit and Handrail
Hello Mayank,

I apologise for not replying to you on this sooner. I should also let you know that James Clark left the Council a couple of weeks ago, so I'm the only officer with a connection to your case.

I'm afraid that we lack the resources for me to come to site to provide any further advice on your application, really – unless you're sufficiently concerned to wish to set up a pre-application advice case, which I'm afraid would incur a fee. Based on our previous discussions, and the fact that you have retained a specialist to look into the matter of your front vaults, I don't forsee significant problems with you submitting the proposals as a Listed Building Consent application now for us to determine.

I probably would wish to come to site before we determine the application, and I will review the reports and proposals in more depth – and if any issues become apparent then, it is perfectly normal for us to negotiate revisions with you while this application is live.

My planning officer colleagues advise me that the handrail is unlikely to be considered 'development', and therefore only an LBC application – and not a Planning Permission application – will be needed.

I hope this helps.
All the best for now,

Alfie

Alfie Stroud
Senior Planning Officer - Design & Conservation

Telephone: 020 7974 278

From: Mayank Patel [mailto:mpatel@TriPolus.co.uk]
Sent: 29 September 2016 16:19
To: Stroud, Alfie
Subject: FW: 28 Church Row - Visit and Handrail
Importance: High

Alfie

I have not heard back from you on this, I have tried ringing a few times without success, please can you advise on this.

Thanks

Mayank

Mr Mayank Patel
28 Church Row
Hampstead

From: Mayank Patel [mailto:mpatel@TriPolus.co.uk]
Sent: 12 September 2016 14:32
To: 'Stroud, Alfie' <Alfie.Stroud@camden.gov.uk>
Cc: 'Clark, James' <James.Clark@camden.gov.uk>; Mayank Patel <mpatel@TriPolus.co.uk>
Subject: RE: 28 Church Row - Visit and Handrail
Importance: High

Alfie

I trust you have had a good summer. I wanted to come back to our emails from June regarding 28 Church Row.

Handrail
Attached are a couple of photos showing how a fixed handrail would replace the existing rope handrail. We just need your feedback/visit to confirm if we can go ahead with the replacement in due course post having the correct permissions from your office.

Vaults
For our vaults we have now had surveys and reports back from 3 companies, all recommended the Newton System 500 for the vaults to channel water from the vaults to existing drains etc. The datasheets are attached and we understand that this system is widely accepted and used within LBC. The Stonehouse Survey report is also attached for more information. On the survey report, we would NOT use a sump pump as we have existing gravity drains which work and the level of water ingress doesn't warrant the use of sump pumps.

Can you please let me know if you wish to visit the site or happy with the details attached and for us to submit an application for permission on these two items. If you can please point us to the correct application process to follow.

Regards

Mayank

Mr Mayank Patel
28 Church Row
Hampstead
London, NW3 6UP

www.28churchrow.com

Tel: +44 (0) 207 993 4611

From: Stroud, Alfie [mailto:Alfie.Stroud@camden.gov.uk]
Sent: 06 June 2016 15:10
To: Mayank Patel <mpatel@TriPolus.co.uk>
Cc: Clark, James <James.Clark@camden.gov.uk>
Subject: RE: 28 Church Row - Visit and Handrail

Dear Mayank,

Thanks for these further investigations on the matter of the handrail.

As discussed by phone, swapping the existing rope handrail for a fixed timber handrail will require you to obtain Listed Building Consent. Please submit an application through the Planning Portal when you are ready. James, can you advise on whether this would need Planning Permission?

As for the treatment of the vaults, I would be happy to come and visit to discuss this proposal in greater depth – perhaps with James, if he would like to attend as well. It would be useful, before a visit, to have

some more details of the system your structural engineer has proposed for these works, and any report or drawings which demonstrate the problem.

Would you be able to combine the handrail works and this proposed treatment of the vaults into a single LBC application?

Thanks again,

Alfie

Alfie Stroud
Senior Planning Officer - Design & Conservation

Telephone: 020 7974 2784

From: Mayank Patel [mailto:mpatel@TriPolus.co.uk]
Sent: 06 June 2016 14:26
To: Stroud, Alfie
Cc: Clark, James; Mayank Patel
Subject: RE: 28 Church Row - Visit and Handrail
Importance: High

Alfie

Further to our call this morning on the subject of 28 Church Row – Handrail, we have consulted with the staircase H&S company and the handrail on the other side will not work as you see from the photo, there is not enough wall to take a handrail up to the top of the steps.

Thus, we will need to replace the existing rope rail with a wooden rail similar to the existing one at the top of the stairs.

The "K" – building regs state that the top of the handrail should be 900mm come the nose of the step and min. 42mm wide. We would like to install these asap so would appreciate your guidance and concurrence.

As stated, happy to arrange a site visit to see this issue and also look at our vaults which we have been advised by a structural engineer we should spray concrete to give it structural integrity for safety and to stop it leaking.

If you can please let me know on the handrails as a matter of urgency that would be appreciated as we are opening tomorrow – June 7th to the public.

Regards

Mayank

Mr Mayank Patel
28 Church Row
Hampstead
London, NW3 6UP

www.28churchrow.com

Tel: +44 (0) 207 993 4611

From: Mayank Patel [mailto:mpatel@TriPolus.co.uk]
Sent: 03 June 2016 07:33
To: 'Stroud, Alfie' <Alfie.Stroud@camden.gov.uk>
Cc: Mayank Patel <mpatel@TriPolus.co.uk>; 'Clark, James' <James.Clark@camden.gov.uk>
Subject: 28 Church Row - Visit and Handrail

Alfie

I am sorry we didn't see you yesterday at the launch of 28 Church Row, we had a very positive launch event. We would like you to visit so you can see the final works.

On a point that was raised by our Staircase inspection report, was that our handrail is currently a rope, which was the original handrail and we have not changed this.

The handrail is made of rope which does not comply with part "K" of the building regulations both in its construction and height, it is between 700 and 780mm high above the toe of the staircase.

Can you please confirm that we can change the rope for a standard handrail without requiring planning consent.

Regards

Mayank

Mr Mayank Patel
28 Church Row
Hampstead
London, NW3 6UP

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BASEMENTS

SURVEY REPORT

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PROPERTY & CARE
BASEMENTS

Email only: mpatel@tripolus.co.uk

8 July, 2016

Our Ref: **GHS/543R**

Mr. M. Patel
28 Church Row
London
NW3 6UP

Dear Mr. Patel,

28 Church Row, London NW3.

We thank you for your instructions to inspect the below pavement vaults for damp penetration, and have pleasure in submitting our report.

All directions given in this Report were taken from the outside of the property facing the front.

OBSERVATIONS

The central vault is presently used as a dining area, both smaller vaults are to be used for restaurant storage. We are aware of the Grade II* listed status of the building and our recommendations are mindful of this listing.

It would appear that dampness to the area is being caused by:

Lateral penetration of capillary held moisture from the adjacent ground.

Lateral penetration of moisture caused by hydrostatic pressure.

Dampness rising through the floor.

Moisture penetrating through the wall/floor junction.

Rainwater penetrating through the heads of the vaults.

Condensation caused by a combination of high humidity and cold surfaces.

RECOMMENDATIONS

In order to provide a dry surface to the walls and floor, we have prepared a Specification of Remedial Works. This specification includes:-

The installation of a studded high density polyethylene membrane fixed to all surfaces within the vault as set out in the enclosed Specification of Remedial Work.

The installation will incorporate a sump, two submersible pumps and a lid to protect the sump. We have allowed to take the exit pipework through to the lightwell so that the water can be discharged into the existing gulley.

This system is the only waterproofing system considered appropriate for historic buildings because:

1. Original historic wall finishes are retained.

2. No cement is used.

3. The system does not induce additional stresses on the building fabric it merely guides water to a drainage point.

4. It is fully reversible, in the future the membrane can be stripped away leaving the existing wall surface.

We confirm that Graham Stone is a PCA registered Waterproofing Design Specialist. Thus we fully conform to BS8102 : 2009 which recommends a specialist in waterproofing is included in the design team for any structure where usable space is fully or partly below the external ground level.

GENERALLY

If dry air and condensation free conditions are required, then it is essential that efficient through ventilation is provided. At the same time, steps must be taken to insulate cold surfaces. Consideration should also be given to the provision of an adequate dry form of heating, and/or dehumidification. (Such work is not included in our quotation).

The proposed dual pumping system of two **NP400** pumps will provide a capacity of approx. 280 litres/minute assuming a head of water of 3m.

The independent battery back-up system with converter will run a **NP400** pump in the event of power failure. This is anticipated to pump at a rate of approx. 220 litres/minute assuming a head of water of 3m. If normal pumping conditions (not running continuously) we expect around 24 hours of operation. This performance can be extended by connecting additional batteries in series.

There must not be any waste or overflow water from services linked into our pumping system such as from washing machines etc. Any blockage from debris arising from such a system would result in our guarantee being invalidated.

BACKGROUND TO OUR RECOMMENDATIONS FOR VAULT WATERPROOFING:

A tanking system has to be 100% defect free to be effective. In a recent landmark court case, Outwing – v – Thomas Weatherald, the Judge decreed that it is unreasonable for anything to be 100% defect free, and if a system that is to be used is dependant on being thus, another method of waterproofing should be used also.
A drained system will work even when not 100% defect free.

BS8102 : 2009 recognises that drained systems are the least likely to fail of all forms of waterproofing.

In order that the waterproofing system meets the requirements of Grade 3 of BS8102 : 2009, we propose that the basement be waterproofed with a drained system, categorised as a Type 'C' installation in BS8102 : 2009.

We recommend that System 500 by John Newton & Co. be used. The system involves the fitting of a Cavity Drain Membrane, **Newton 508**, to the walls, and a drainage channel, **Newton Basedrain**, at the vulnerable wall/floor junction with **Newton 508** to the floor.

Newton 508 is a studded sheet membrane. The 8 mm studs allow water to come through the walls of the basement to be diverted downward in a controlled manner to the Basedrain within the floor. As well as collecting water from the Newton 508 to the walls, Basedrain intercepts water under pressure at the wall/floor junction. With suitable drainage of the Basedrain, its use prevents flooding of properties by creating a protective ring around the perimeter of the basement. By controlling and removing the problem rather than trying to hold back the water, drained systems are becoming the accepted best practice for waterproofing structures below the ground. Basedrain is fully maintainable, and jetting/inspection ports will be installed.

The system has to drain to either natural drainage or pumped drainage to be effective. As natural drainage is not available in this instance, we strongly recommend that the system drain to a sump where two pumps will be installed with an alarm if the system fails. The pumps used are top quality CE marked pumps capable of a combined discharge of 300 litres per minute. They are also the quietest pumps in their class. The alarm will warn of failure of the primary pump.

We suggest the client is wary of systems which do not include the sump or basedrain detail.

It is essential that the external fabric of the building (including gutters, downpipes, drain pipes, render, pointing etc.) are repaired where necessary, and maintained in good condition, to ensure that penetration of rainwater is reduced.

stonehouse BASEMENTS

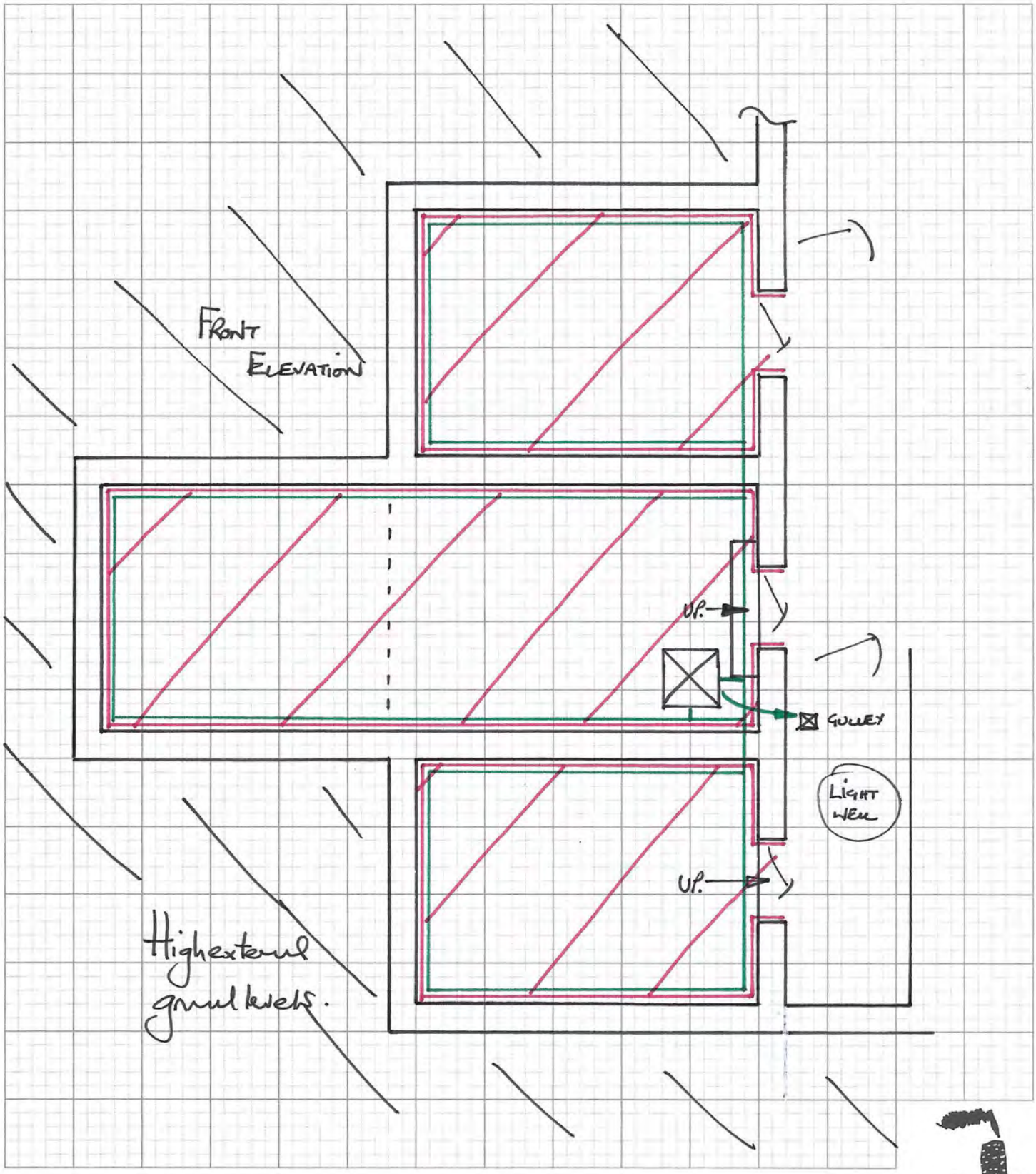
DATE 7 July '16

REF. S43R

NOT TO SCALE

SKETCH PLAN

PROPERTY 28 Church Road, London. NW3



KEY

System 508

Meshed System 508

Basedrain

Sump

Newton 508 to floor

SPECIFICATION OF REMEDIAL WORK TO THE VAULTS

This specification should be read in conjunction with our sketch plan no. 543R.

1. TO BE CARRIED OUT BY THE BUILDER:

To all areas scheduled for treatment, remove any fixtures, fittings, or any other items preventing full access to the working area.

Provide mains electricity and water.

Strip out all electrics and plumbing and provide attendance to refit.

Your electrician to provide two separately supplied radial circuits, each controlling a 13 amp switched fused spur with neon indicator for connection of sump pumps. MCB to be ‘C type’ to allow for initial start-up surge.

Remove door frames and renew or replace.

2. TO BE CARRIED OUT BY STONEHOUSE PROPERTY CARE LIMITED:

Prepare the wall surface to receive the membrane.

Break a channel in the floor perimeter to receive the basedrain.

Cast the **Titan Pro Green** sump chamber (with **Newton 303 Polyproof** hydrophilic water bar) into the level slab at the correct height. (Supplied with bespoke lid).

Install a studded high density polyethylene meshed membrane **Newton 508** waterproofing system to the manufacturers specification.

Lay basedrain in 20 mm river washed stone with swept corners at each 90° bend.

Tape joints and link to chamber with two basedrain connectors.

Fit two **NP400** sump pumps and connect each to fused spurs.

Run exhaust pipework and link to appropriate drainage.

Lay **Newton 508** over floor and link to walls utilising wall/floor junction tape.

Lay screed taking great care not to damage the membrane below.

Plaster walls with a sand/cement/lime mix to a wood float finish.

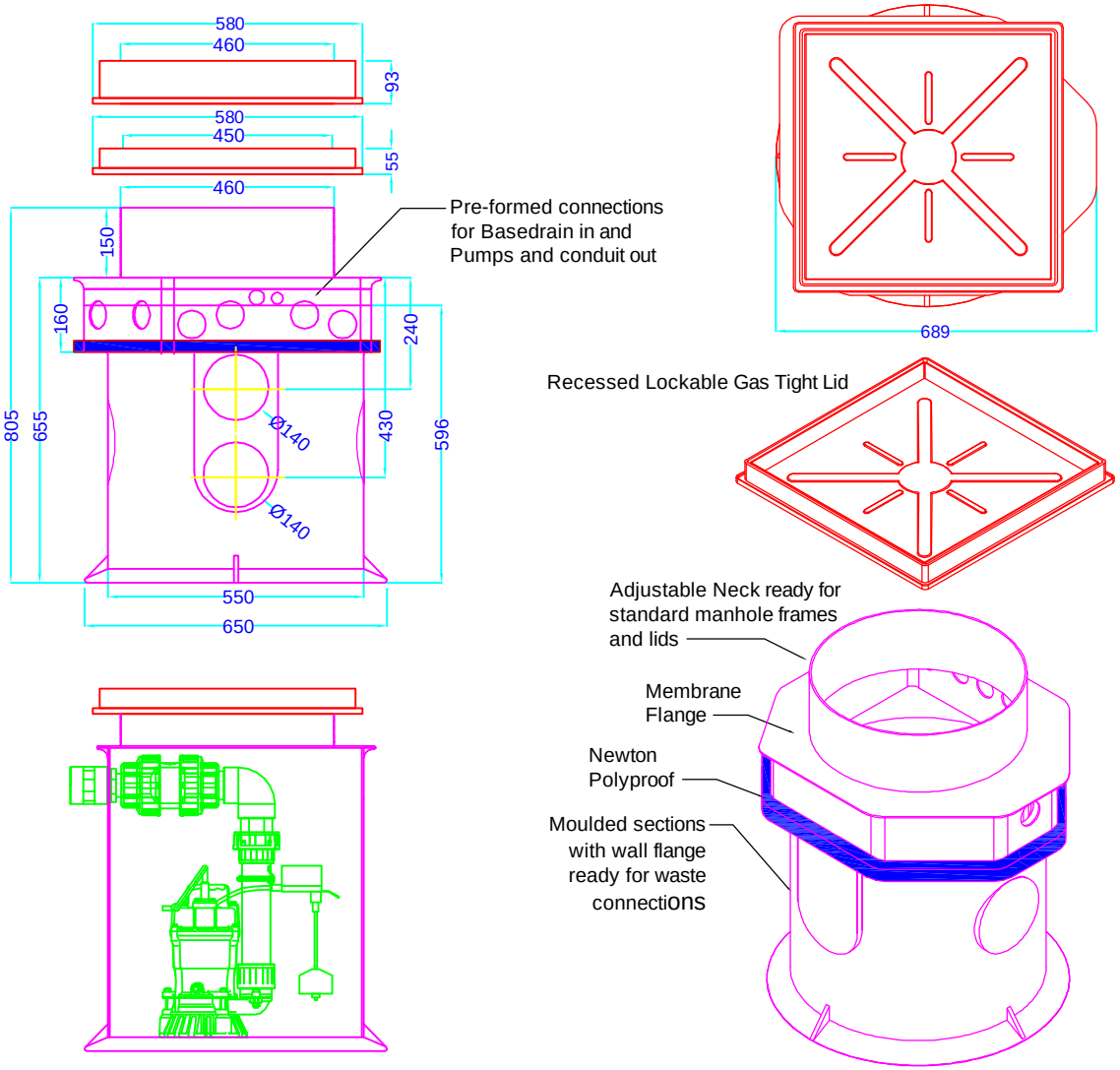
Fully commission the pumping system.

LEAVE SITE CLEAN AND TIDY.

IMPORTANT NOTES:

It is important that the waterproof system is not punctured in any way. If a fixing to the wall is required, advice should be sought from ourselves.

Always inform **Stonehouse** if the system is damaged or disturbed after completion, because repair will be necessary. We stress we do not charge for repairs during the construction process to encourage notification.



Notes

The Newton Titan-Pro White Sump is specifically designed for use with Newton System 500 Cavity Drained Waterproofing Systems, and includes many unique features.

The neck of the sump receives standard manhole covers and lids, and is supplied with the Clark-Drain CLKS 450SR/46SL round to square lockable cover to give the installer the largest number of finishing options available, and the adjustable neck allows for a perfect finish to all floor depths.

The sump has pre-formed inlet and outlets for Newton Basedrain and the Newton pumps for easy installation. its unique shape is designed for simple and easy installation to both wall and corner.

The top flange facilitates easy finishing of the floor membrane with flat tape joints.

The Newton Titan-Pro can be specified with Newton Clean Water and Effluent pumps, and is supplied with internal pipe work, check valves, release unions, and fittings.

To access the details mentioned above, relevant NBS Clauses, product data and MSDS sheets, please use this hyperlink: Drawing Support

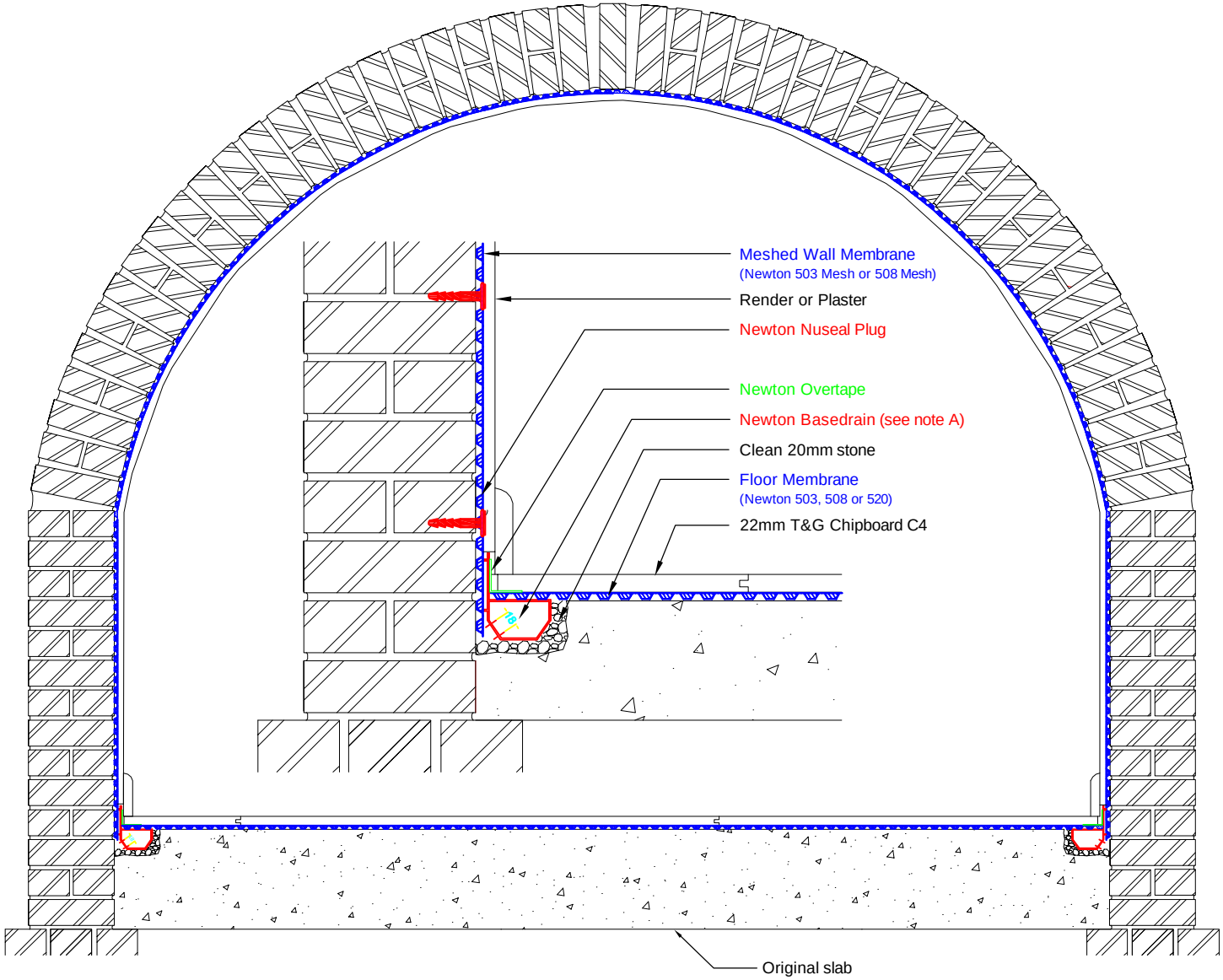
Newton Titan-Pro Green Sump with dimensions

(EST. 1848)
stonehouse BASEMENTS
Stonehouse Property Care Ltd
8 Centenary Business Park, Station Road,
Henley-on-Thames, Oxfordshire, RG9 1DS Tel: 01491 577560
www.stonehousebasements.co.uk

Scale	Ref	Original Ref	
1/4 @ A4	CDM-P11		
Date	Designed by	Drawn by	Checked by
23/04/2013	DGB	DGB	AJB

Section

DO NOT SCALE



Notes

This detail assumes that the slab is in good - constructed to BS EN 1992 (Eurocode 2), and that the structure as a whole is of sufficient mass and quality to resist heads of water pressure as required by BS8102.

It is recommended that the Basedrain recess be treated with Newton Lime Inhibitor prior to installation of the Newton System.

A) Drill 20mm Ø holes at 150mm centres in the top horizontal face of the Basedrain to receive water from the floor membrane. Basedrain should always be laid level and connected to the sump chamber or safe gravity drainage with at least two Drainage Connectors, see drawings CDM-P3 (Basedrain Layout & Parts) and CDM-P9 (Titan-Pro Pump System). Construction joints to the floor should be protected by Newton Floordrain, see drawing CDM-D2 (Construction joints protected by Newton Floordrain). For supporting walls detailing please see drawing CDM-D4.

For reveal detailing please see drawing CDM-D37A&B

IMPORTANT: Forming the recess removes the concrete covering above the reinforcement steel, to prevent corrosion of the reinforcement steel he bottom of the recess should be coated in Newton 101F, if the reinforcement steel is damaged or removed during the forming of the recess please consult a construction engineer.

To access the details mentioned above, relevant NBS Clauses, product data and MSDS sheets, please visit Technical resources via www.newtonwaterproofing.co.uk

Newton System 500

Brick vault with plaster or render.

Basedrain sat within recess cut to existing slab

(EST. 1848) ©

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8 Centenary Business Park, Station Road,
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www.stonehousebasements.co.uk

Scale	Ref	Original Ref	Revision
Not to scale	CDM-V3	VSW-102	Rev 1.0
Date	Designed by	Drawn by	Checked by
28/01/2015	DGB	AJG	DGB

QUOTATION

To carry out the work as set out in the Specification of Work attached.

VAULT WATERPROOFING

Quotation for Specification Item No. 2 ..... **£27,985.00 + VAT**

All other items are not included in the Quotation and are to be carried out by **the builder** within the programme of work.

All quotations for our work are subject to V.A.T. at the standard rate unless otherwise advised by the Company.

PAYMENT: 30% deposit payable on acceptance. Balance payable as invoiced. Interest payable at a rate of 2% per calendar month is due on any account not paid within 7 days of the invoice date.

Your attention is drawn to our Standard Terms and Conditions which are attached. These and any observations, recommendations and specification of work will constitute the contract documents.

This proposal is for all three vaults, all to a plastered finish. I do not know your budget for these works. If you prefer, fewer vaults could be waterproofed and our cost will naturally decrease. This document confirms our methodology.

The nature of waterproofing is such that soon after completion, further work may be necessary to overcome some leaks. Naturally, any such work is included in our quotation. However, we will not be liable for any disturbance or delays, as a result of this work.

This quotation assumes the brickwork under the existing surface to be sound enough to directly accept the waterproofing system. Frequently, while preparing the wall, it is found that other works are necessary, or we may need to change the specification. Such alterations are not allowed for. Should they be found to be necessary, a supplementary quotation will be prepared prior to doing the work.

Our specification and quotation is based on observations made at the time of our visit. We cannot accept responsibility for further moisture penetration in areas which at the time of our visit appeared to be sound. There is always a possibility that moisture may adversely affect areas in addition to those specified, and we are prepared, if so instructed, to submit a quotation for treatment of such additional areas.

Our Quotation has been prepared on the assumption that the work will be carried out in one continuous visit.

The Waterproofing works are Guaranteed for 10 years.

Genuine insurance for your Guarantee through the GPI

We are very pleased to inform you that we are registered with the Guarantee Protection Insurance Ltd. (GPI). This enables you, for the payment of a single premium to purchase real insurance to protect the long-term validity of the guarantee that you will be provided with upon completion of our work. **The cost of the premium necessary to cover the work in your property is included in the quotation** and registration will be processed automatically on your behalf upon payment for the work. The insurance provided by the GPI is a significant benefit for you and future owners of your property and is explained in greater detail in the enclosed leaflet.

Annual pump servicing is available through **Stonehouse**, this contract must be maintained by the client, otherwise the guarantee is void, details of servicing facility are enclosed with this report. This sump and pump servicing facility is exclusive to **Stonehouse** customers.

The channel flood test must be undertaken.

If the battery back-up pump option is not accepted by the client, the guarantee is void in the event of power failure.

The Guarantee will be valid when all the works set out in our Specification of Work has been carried out fully and our account has been paid in full.

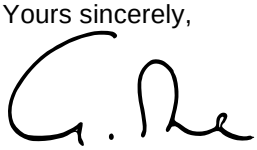
Where our works are to be carried out under any of the JCT Standard Form Contracts and the Employer intends to hold retentions until the end of the defects liability period, our Guarantee will not be issued until final retention has been released. Should the Guarantee be required on practical completion, this will be issued upon receipt of payment in full, **i.e. no retentions withheld.**

Stonehouse Property Care are an independent specialist basement waterproofing company. We only recommend works which are necessary and then carry those works out to the highest levels of quality. Our clients can have complete confidence in our recommendations and range of waterproofing options. Please visit our web site at **www.stonehousebasements.co.uk** to view examples of our completed contracts

Should you require any further information please do not hesitate to contact us.

We look forward to receiving your further instructions and if you would kindly complete and return the Acceptance of Quotation Form, we shall contact you immediately to arrange a suitable commencement date.

Yours sincerely,



Graham Stone
BSc MIWSc CSRT CSSW
Managing Director

DATA SHEET

NEWTON 508

Cavity Drain Waterproofing Membrane

JOHN NEWTON
& COMPANY LIMITED (EST. 1848)

Rev 4.1 - 29 November 2012

INTRODUCTION

Newton 508 is a high quality cavity drain waterproofing membrane suitable for use internally below the ground to retaining walls, vaulted soffits and floors. Newton 508 is the most commonly used membrane within our Newton System 500 waterproofing system that includes Newton drainage and pumping systems.

Newton 508 is guaranteed against deterioration for 30 years, and has a life expectancy of at least 50 years (DIN 9001:2000) and is supported by BBA Certification Number 94/3010.

BBA BRITISH BOARD OF AGRÉMENT
CERTIFICATE No 94/3010

Newton 508 is inert with high compressive loading stability. It is highly resistant to water, alkalies, saline solutions and organic acids, and it is not effected by minerals and hydro-carbons. It is also impervious to root penetration, is rot-proof and resistant to bacteria, fungi and other small organisms.

Newton 508 is also independently tested as being an effective barrier to methane and radon ground gasses and is the membrane used within our patented combined ground gas and waterproofing system, Newton PAC.

Newton 508 is completely inert and is non-polluting to drinking water.

KEY BENEFITS

- Does not require extensive and damaging preparation to the wall surface.
- Speed of installation.
- Provides vapour control and when used with humidity control systems is capable of delivering an environment to all levels within a Grade 3 environment to BS8102:2009
- Independently certified as a barrier to hydro-carbon gasses, radon and methane.

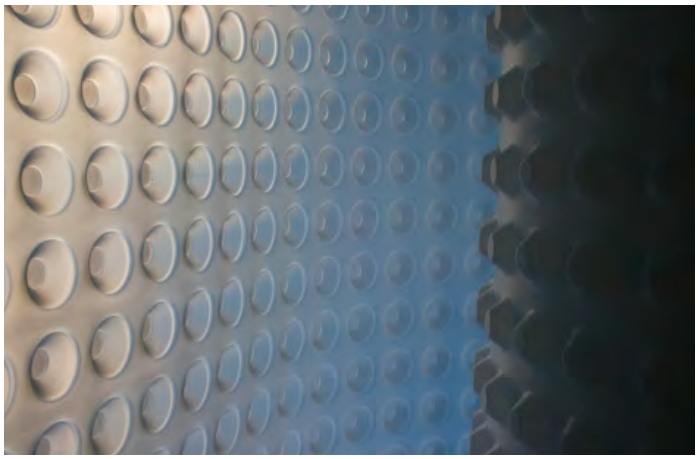
PRODUCT CODE - M1 & M2

NEWTON 508	
Width (m)	**2.07 / 2.40**
Length (m)	**20.00 / 20.00**
Area (m^2)	**40.00 / 48.00**
Weight (kg)	**30.00 / 35.00**
Colour	**White**
Raw material	**HDPE**
Thickness (mm)	**0.70**
Stud height (mm)	**8.00**
Service temperature	**-40 °C to 80 °C**
Compressive strength	**130kN/m^2 / * 350kN/m^2**
Fire resistance (DIN 4102)	**B2**
Water vapour transmission	**0.046g/m^2 x hr x mmHg**
Thermal resistance	**0.078m^2 K/W**
Thermal conductivity	**0.461 W/mK**
Drainage capacity	**4.61 litres/sec/m^2**
Vicat softening temperature	**126 °C**
Chemical resistance	**Very good**
Radon transmittance	**$P = 3.9 \cdot 10^{-9}$ m/s**
Radon permeability	**$k = 2.6 \cdot 10^{-12}$ m^2/s**

* Filled with non-compressible material such as screed or sand

All technical data stated herein is based on tests carried out under laboratory conditions.

John Newton & Company was formed in 1848 and were the first British company to produce a studded damp-proof membrane with Newton Newlath. We are recognised as the leading supplier of damp and waterproofing proofing membranes in the UK.

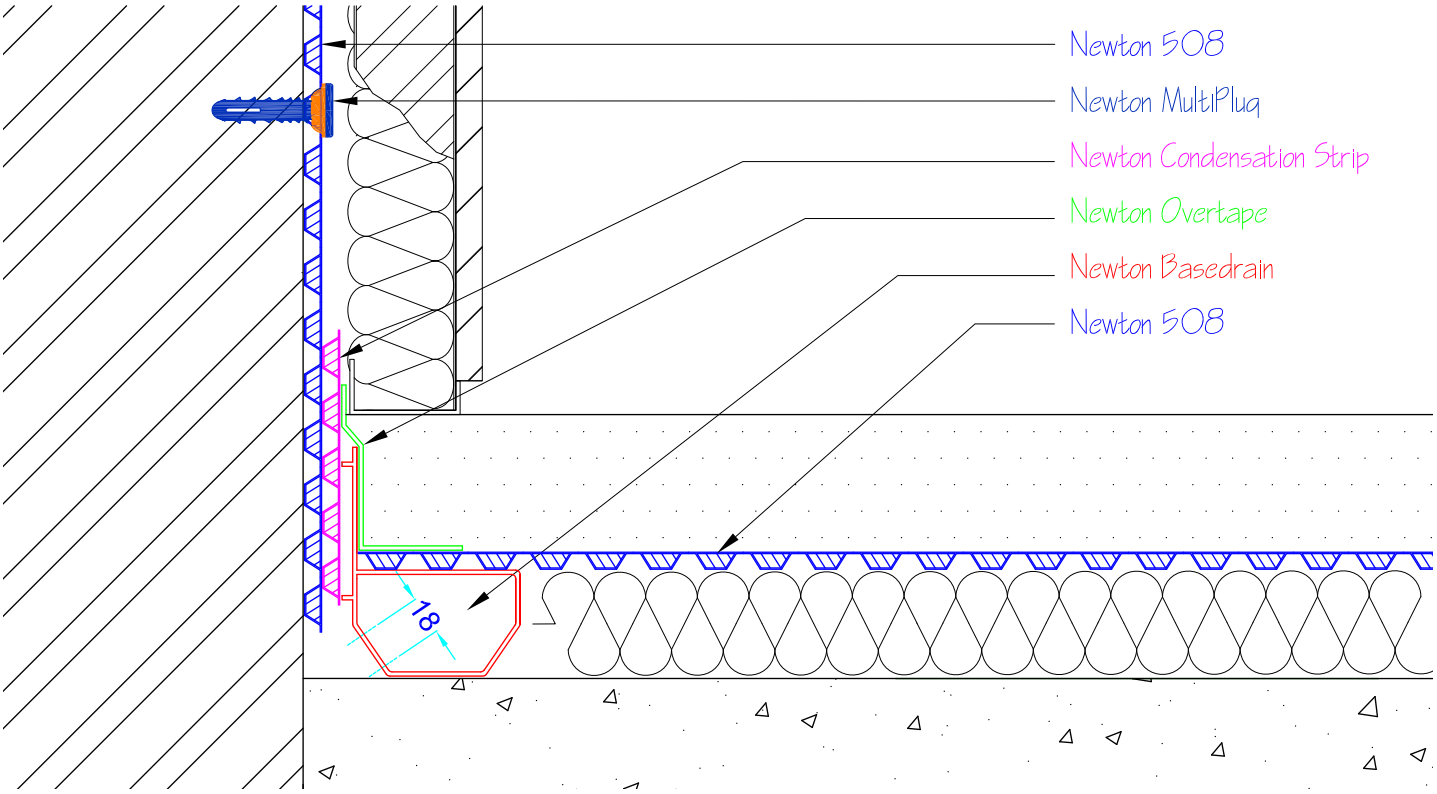


TYPICAL APPLICATIONS

As a waterproofing membrane as part of Newton System 500 and be used as both the wall and the floor membrane for the waterproofing and gas control of:

- Basements
- Cellars
- Vaults
- Tunnels
- Arches

Newton House, 17-19 Sovereign Way, Tonbridge, Kent, TN9 1RH
T: +44 (0)1732 360 095 **W:** www.newton-membranes.co.uk **E:** info@newton-membranes.co.uk



INSTALLATION

Newton 508 is a component of Newton System 500, a professional fit waterproofing system. The BBA certificate for Newton 508 requires that *'The waterproofing membrane should only be installed by installers who have been trained and approved by the Certificate holder.'* Newton NSBC contractors or contractors within similar approved schemes run by our distributors should be used for the installation of Newton 508 and Newton System 500.

SPECIFICATION & DESIGN

John Newton provide a full design service which includes full CAD and 3D drawing capabilities to assist the designer and appointed specialist contractor with the technical specification. It should be understood however that the person ultimately responsible for the design of the waterproofing system is the installing waterproofing contractor. The specialist contractor should be included as part of the project design team (a recommendation within BS8102:2009) with the designer providing guarantees for both design and installation.

Our experience is that the sooner a waterproofing contractor is involved in the design of the system the smoother the project runs.

John Newton are partners with RIBA and NBS Plus product specifications are available on our web site via a live NBS Plus feed. We also partner with Fast-track CAD.

FASTRACKCAD®
ARCHITECTURAL CAD DATABASES

riba online cpd

SEALING AROUND PROTRUSIONS

Because Newton 508 is not a pressure resistant membrane, making good and sealing to service entries and other protrusions is generally simple to design and implement. Our website has a number of such details.

USING THE MULTIPLUG FOR FIXING

The Newton MultiPlug has a hollow core that designed to receive 5mm self-tapping screws. Use the MultiPlug to secure timber battens or locating brackets from wall lining systems. Heavier items can be supported by screwing a piece of chipboard to the MultiPlugs at fairly close centres and then fixing the heavier item to the chipboard in a conventional way.

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FIXING HEAVIER OBJECTS TO THE WALL

Heavier objects should be attached to the wall using resin anchors. Seal around the resin anchor with Newton Mastic or Waterseal Rope.

WALL TIES

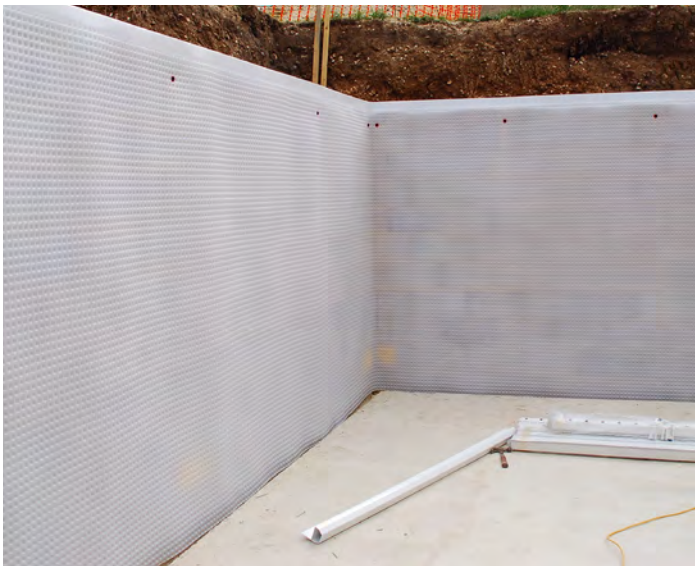
The Newton MultiPlug is designed to accept a range of Newton Helifix Wall Ties. These helical ties are driven into the MultiPlug to the correct depth with a hand tool. Newton Helifix Wall Ties are available in lengths of 155mm, 170mm, 195mm, 220mm, 245mm, 270mm, 295mm and 325mm. The hand tool ensures that exactly 30mm of the wall tie is inserted into the Multi|Plug, and this should be considered when sizing the wall tie.

ASSOCIATED PRODUCTS

- Newton MultiPlug - A1 or Nuseal Plug - A2 - for fixing the membrane to walls
- Newton Waterseal Rope - A6 or Tape - A5 - for double sided vapour controlled jointing
- Newton Overtape - A7 & A8 for single sided vapour controlled jointing and sealing around protrusions through the membrane
- Newton Basedrain - D1, Floordrain - D3, Baseboard - D8 drainage systems
- Newton Pumps, Pump Systems and Pump Control Systems

LIMITATIONS

- Newton 508 is a component of Newton System 500, a waterproofing system for earth retained structures that collects and manages ground water entering the structure. The collected water must be safely removed. The membrane is not to be used within an earth retained structure unless a safe method of water removal has been included also.
- Not UV stable - Ensure the membrane is not left in direct sunlight for more than 7 days.



PACKAGING

2.4m x 20m - Product code M1
2.0m x 20m - Product code M2

COVERAGE

M1 - 42 to 48m^2 depending on number of laps
M2 - 37 to 40m^2 depending on number of laps

STORAGE

Newton 508 should be stored with the rolls standing up on end and away from direct sunlight.

HEALTH & SAFETY

Product should only be used as directed. Although Newton 508 poses no health hazards usual protective clothing and goggles should be worn in accordance with current health and safety regulations.

We always recommend that the Material Safety Data Sheet (MSDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The MSDS is available upon request from John Newton or online via our web site. Please see contact details below.

Technical staff will be pleased to give help and advice on the most effective use of the product.

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