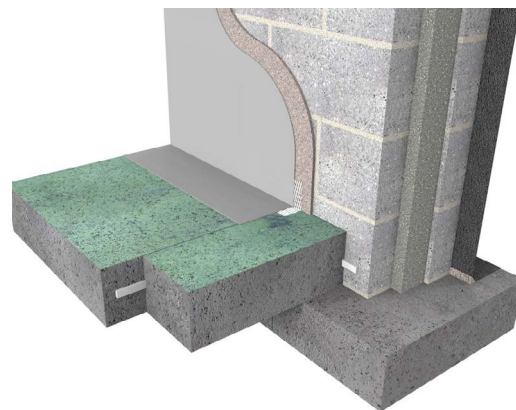


Type A Waterproofing

AA-01 SPECIFICATION SHEET

Combined Waterproofing of Block Walls

Rev 3.0 - 01 June 2021



BUILD

WALL CONSTRUCTION:

Double skin of block-work with RC core

FLOOR CONSTRUCTION:

Reinforced Concrete (RC) Raft

NWI SCORE



This specification employs 1 form of waterproofing (Type A - Barrier Protection) externally to limit ground water ingress and internally to ensure that the desired internal environment is achieved. The effectiveness of the waterproofing is dependent on the Type A system being effective, especially at the construction joints.



SPECIFICATION

ANCILLARIES

Install appropriate Newton waterbars to all construction joints and service penetrations.

TYPE A APPLIED

Waterproof the structure internally with [Newton HydroSeal System](#) and externally with [Newton HydroBond System](#).

NEWTON WATERPROOFING INDEX

The Newton Waterproofing Index (NWI) is a unique scoring system that accurately assesses the level of risk and potential success of specific waterproofing specifications. The NWI score is awarded by a panel of experienced waterproofing design specialists and reflects the chances of success of that specification. The scoring system works in conjunction with the British Standard for waterproofing, which defines the three types of internal environments as Grades 1, 2 and 3.

NOTES

To improve the NWI score and provide a grade 3 environment install Newton CDM System as per Newton Specification Sheet AC-01.

The detailing of other building elements and termination details are available within the Newton Waterproofing specification library.

A-RATED INSURANCE

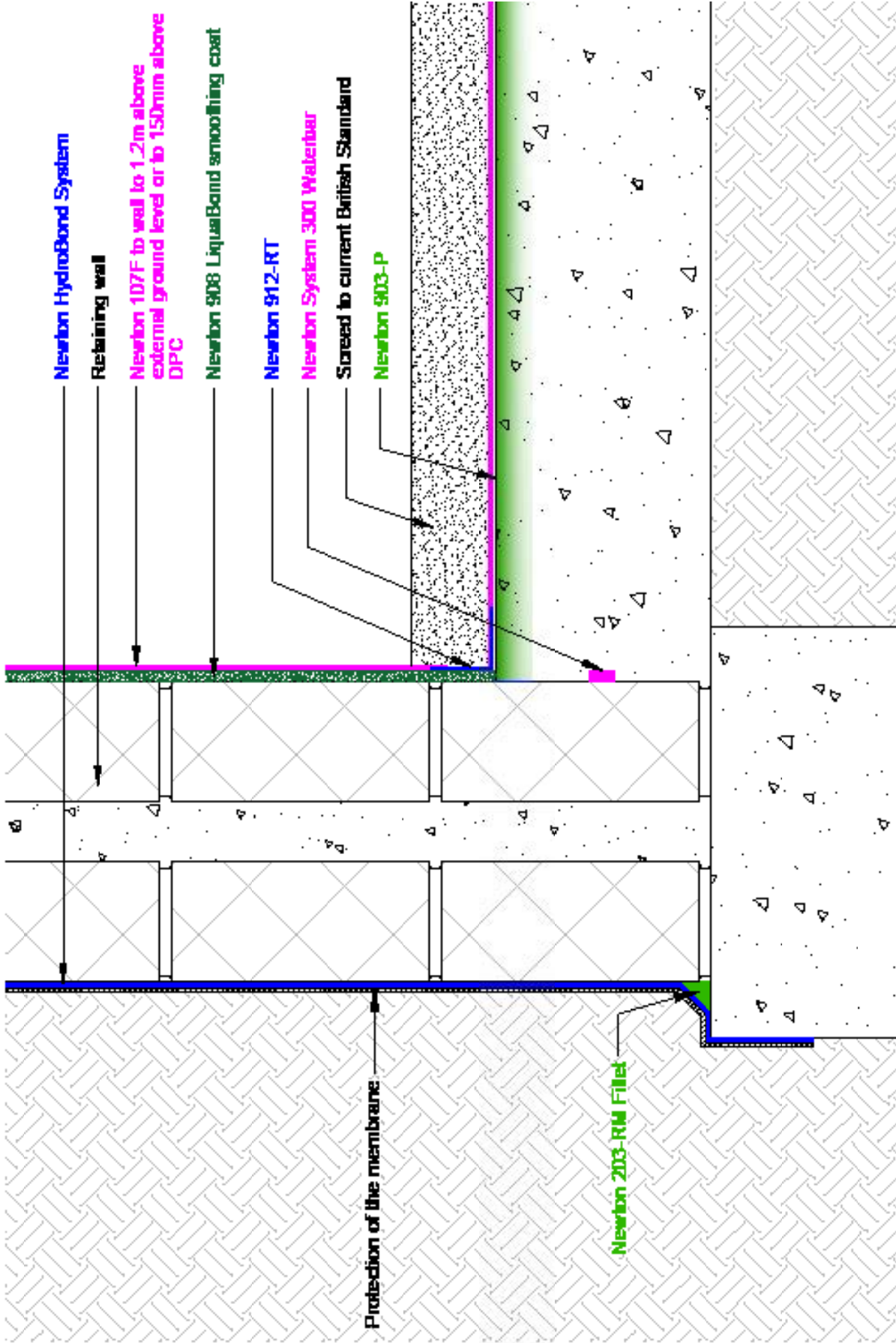
Tailor made insurance policies available depending on the specialist contractor and specification.

Any specification/advice provided is only valid if used with products supplied by John Newton and Company Ltd (trading as Newton Waterproofing Systems). Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our website for the latest versions.

AA-01

Combined Waterproofing of Block Walls

Section



Type A Waterproofing

AA-01 SPECIFICATION OUTLINE

Combined Waterproofing of Block Walls

The following specification provides 1 form of waterproofing

Specification	AA-01
Description	Internal and external waterproofing to block wall. No gas protection.
Build	Block in two skins, with reinforced concrete core, supported from strip foundations. Reinforced concrete slab to BS EN 1992-3.
NEWTON HYDROSEAL SOLUTION	
Newton 104	is a crystalline compound that provides in-depth protection against the movement of moisture through the capillaries and hairline cracks within the concrete
Preparation	None required
Application	Install the powder as described on the product datasheet
NEWTON HYDROBOND SOLUTION	
Substrate Preparation	The Newton HydroBond System provides a complete and continuous waterproof barrier to the external surface of any below ground structure
Newton 108-HydroBond-LM or Newton 109-LM	See J30/110 NBS Clause for Newton 108 HydroBond-LM See J30/110 NBS Clause for Newton 109-LM
Application	Install the membrane as described in the product Installation Manual
Newton 108 HydroBond-LM	Specialist spray apply in one coat to give a uniform membrane of 2mm.
Newton 109-LM	Roller, brush or spray apply in two coats to give a uniform membrane of 2mm. Terminate to DPC level as shown on Newton Detail sheets
Priming	
Newton 108 HydroBond-LM	See J30/110 NBS Clause for Newton 108 HydroBond-LM
NEWTON HYDROTANK SOLUTION	
	All construction joints (day joints, shrinkage joints, movement joints etc) should be waterproofed with Newton System 300 waterbars to limit water ingress thorough joints in the structure.
Newton 315 Polymer-Waterbar	Option to include 3rd party certified Newton 315 Polymer Waterbar with NHBC approval A high grade, hydrophilic waterbar with high elasticity and high tensile strength, made from a polymer which swells when in contact with moisture.
Preparation	See E40/230 NBS Clause for Newton 315 Polymer-Waterbar
Application	Install the waterbar as described in the product datasheet Fix waterbars at the centre dimension of joints
NEWTON HYDROSEAL SOLUTION	
Newton 107F	Type A, internally applied waterproofing system. Cementitious polymer rich coating
Preparation	Install the membrane as described in the product Installation Manual
Priming	Newton 903-P
Application	See J10/510 NBS Clause for Newton 107F

Type A Waterproofing

AA-01 NBS CLAUSE

Combined Waterproofing of Block Walls

The following specification provides 1 forms of waterproofing

NEWTON J30 - NEWTON HYDROBOND SYSTEM

J30 TANKING

110A SEAMLESS RUBBER WATERPROOFING MEMBRANE

Newton 108 HydroBond-LM

Highly radon resistant, cold spray-applied, seamless rubber waterproofing membrane for the external waterproofing of basements (including covered decks) and foundation walls.

Newton 108 HydroBond-LM is very quick to apply, at up to 1000m² per day, and is not subject to the delays normally associated with liquid membranes as it can be applied in cooler and damper conditions, and without a primer.

Newton 108 HydroBond-LM is extremely puncture resistant, with high elasticity and a 95% recovery memory. The membrane becomes fully engaged into the concrete surface to prevent water tracking and is suitable for all below ground and earth-retained structures, ranging from domestic basements to the largest civil engineering projects.

Newton 108 HydroBond-LM can be used together with Newton 403 HydroBond to provide a complete waterproof envelope to the structure, forming a Type A (barrier) waterproofing solution suitable for Grades 1, 2 and 3 as defined by BS 8102:2009. Where space is tight, Newton 109-LM can be applied by roller, brush or small airless spray machine.

The Newton HydroBond System is supported by BDA Certificate BAB 16-031/04/A and is accepted by the NHBC as a suitable waterproofing system for Type A Waterproofing to Grades 1, 2 & 3 – BS 8102:2009.

Newton Waterproofing Systems Ltd, Newton House, 17-20 Sovereign Way, Tonbridge, Kent, TN9 1RH

Tel: 01732 360095, Email: Tech@Newtonwaterproofing.co.uk, Web: www.newtonwaterproofing.co.uk

[Please click here to download the full Newton 108 HydroBond-LM NBS Clause](#)

NEWTON J30 - NEWTON HYDROBOND SYSTEM

J30 TANKING

110A SEAMLESS RUBBER WATERPROOFING MEMBRANE

Newton 109-LM

Radon-certified, flexible, single-component, cold-applied and seamless rubber waterproofing membrane used primarily for the external waterproofing of earth-retaining structures such as basements and foundation walls.

Newton 109-LM is extremely puncture resistant with elasticity of 850% and a 95% recovery memory. The membrane becomes fully engaged into the substrate to prevent water tracking and is suitable for all below ground and earth-retained structures, ranging from domestic basements to the largest civil engineering projects.

Newton 109-LM is available in two variants: Medium Viscosity, for use in warmer temperatures, and Low Viscosity, for when it is cooler. Newton 109-LM is also a constituent product of the Newton HydroBond® System supported by BDA Agrément Certificate BAB 16-031/04/A and is accepted by the NHBC as a suitable waterproofing system for Type A Waterproofing to Grades 1, 2 & 3 – BS 8102:2009.

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[Please click here to download the full Newton 109-LM NBS Clause](#)

NEWTON E40 - NEWTON HYDROTANK SYSTEM

E40 Designed joints in in situ concrete

120 CONSTRUCTION/ MOVEMENT JOINTS GENERALLY

Newton 315 Polymer-Waterbar

A high grade, hydrophilic waterbar with high elasticity and high tensile strength, made from a polymer which swells when in contact with moisture. Ideal for sealing structures against water leaks to both cast-in-place concrete and pre-cast construction joints.

The swelling is achieved through hydrophilic acrylate polymers, which are inseparably embedded within the butylene carrier material. This results in high elasticity and exceptional tensile strength, even when fully expanded within the joint.

Due to its high resistance to acids, alkalis and organic solutions, Newton 315 Polymer-Waterbar can be used to seal joints where aggressive water is expected such as within sewage treatment plants, biogas plants and liquid waste holding tanks.

Newton 315 Polymer-Waterbar swells up to 9 times its original size when in contact with water, sealing the joint fully and reliably. Newton 315 Polymer-Waterbar is particularly suited to sealing non-compressed joints such as at the junction between slab and wall.

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[Please click here to download the full Newton 315 Polymer-Waterbar NBS Clause](#)

NEWTON J10 - NEWTON HYDROSEAL SYSTEM

J10 Designed joints in in situ concrete

120A CEMENTITIOUS COATING

Newton 107F

Cementitious coating for the waterproofing and protection of concrete and masonry. Can be spray-applied so ideal for large projects. Suited to the waterproofing of reservoirs, tunnels, water tanks, basements, podium decks, flat roofs and balconies.

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[Please click here to download the full Newton 107F NBS Clause](#)