## Type A Waterproofing

## AC-42 SPECIFICATION SHEET

## Combined Waterproofing of Hollow Block Walls



Rev 3.0 - 18th June 2021

#### **BUILD**

WALL CONSTRUCTION:

Hollow Block Walls

FLOOR CONSTRUCTION:

Block and Beam Floor

#### **NWI SCORE**



This specification employs 1 form of waterproofing (Type A - Barrier Protection) to prevent ground water passing through the structural elements of the building to ensure that the desired internal environment is achieved. The effectiveness of the waterproofing is dependent on the Type A barrier membrane being 100% effective, especially over the mortar joints of the block wall and the wall/raft junction







#### **SPECIFICATION**

#### **ANCILLARIES**

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

#### TYPE A APPLIED EXTERNALLY

Waterproof the structure with <u>Newton HydroBond</u> <u>System</u> providing barrier protection.

#### **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-42.

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.

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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.

NOT TO SCALE | 18JUN21 | DESIGN-AJG | DRAWN-AJG | CHECKED-AJG | REV-A

## Type A Waterproofing

## AC-42 SPECIFICATION OUTLINE Combined Waterproofing of Hollow Block Walls



The following specification provides 2 forms of waterproofing

Specification AC-42

**Description** Waterproofing to Hollow Block wall structure. No gas protection.

Build Hollow block walls, with reinforced concrete core, supported from strip

foundations. Block and beam floor

**NEWTON HYDROBOND SOLUTION** The Newton HydroBond System provides a complete and continuous

waterproof barrier to the external surface of any below ground structure

**Substrate Preparation** 

Newton 108 HydroBond-LM or

Newton 109-LM

Blocks with flush mortar joints to both sides of the wall. Holes and porous

surfaces to be bag-rubbed with Newton 203-RM.

Remove debris with vacuum cleaner and light washing.

**Application** 

Newton 108 HydroBond-LM Apply as described within the product data sheets in one coat at an application

rate of 3.2kg/m<sup>2</sup> to give a uniform membrane of 2mm.

Newton 109-LM Apply as described within the product data sheets in two coats at an

application rate of 3.2kg/m<sup>2</sup> per coat to give a uniform membrane of 2mm. Terminate to DPC level as described within Newton Technical Drawings

Seal around protrusions as described within the data sheets and Newton

Technical Drawings.

Priming

108 HydroBond-LM

With very porous surfaces, a priming coat of the product without salt catalyst

may be required.

Protection/Drainage Protect the waterproofing membrane with Newton 410 Geodrain.

Newton 410 GeoDrain Install a landrain to assist in the diversion around the structure of the water

courses that were interrupted by the build.

The drainage pipe should discharge to a point that is downhill of the property

so that the water will always be moved away safely by gravity.

**NEWTON CDM SYSTEM** 

Wall Preparation Blockwork to be uniform and clean. Remove snots and debris.

Installation Install the Newton CDM Waterproofing System as per the Installation Manual.

It is a requirement of the BBA Certificate that the system is installed by Newton

NSBC waterproofing contractors.

Wall Membrane Install with as many fixings are required to place the membrane to the wall.

Drainage System the void below a suspended floor can be used as both a depressurisation void

for water entering between the oversite and the wall, or through the oversite itself, and as a collection void for water diverted downward by the Newton wall

membrane.

This detail is only suitable where the structure is located to a sloping site where a rising bed of water cannot exist, or where if the site is not sloping, the oversite is a structural slab that is designed to resist water pressure as required

by BS8102.

Floor Membrane Joint the membrane with <u>Newton Waterseal Tape</u> at the overlapping flange.

Protrusions Seal the membrane as tightly as possible to the protrusion. A range of

preformed sealing collars, sleeves, cloaks and linings are available.

Protection Always required

To Wall membrane Please see Reference sheet WF.

To Floor membrane Please see Reference sheet FF.

# Type A Waterproofing AC-42 NBS CLAUSE Combined Waterproofing of Hollow Block Walls



The following document is to be read alongside the relevant Newton Waterproofing datasheets.

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.

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 109-LM NBS Clause

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 1000m<sup>2</sup> 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.

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Please click here to download the full Newton 108 HydroBond-LM NBS Clause

### Combined Waterproofing of Hollow Block Walls

**NEWTON J40 - NEWTON CDM SYSTEM** 

J40 Flexible sheet waterproofing/damp proofing

#### 290A HIGH DENSITY POLYETHYLENE STUDDED CAVITY DRAIN MEMBRANE

**Newton CDM System** 

The Newton Cavity Drain Membrane (CDM) System is a maintainable basement waterproofing solution ideal for new-build basements and refurbishment projects. Comprising of four components: Cavity Drain Membranes, Drainage, Pumps and Control Systems, the Newton CDM System complies with the British Standard for Waterproofing and provides a Grade 3 habitable internal environment.

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Please click here to download the full Newton CDM system NBS Clause