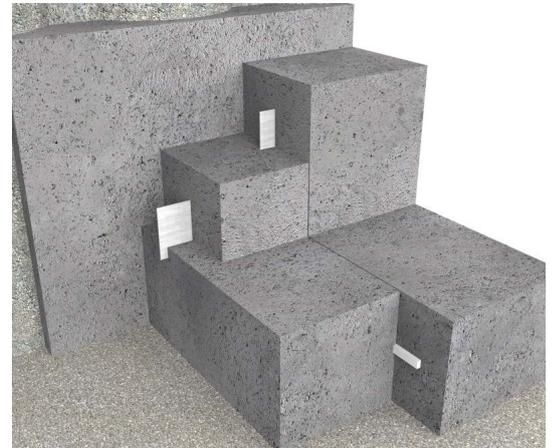


Type B Waterproofing

B-05 SPECIFICATION SHEET

Integral Waterproofing of Contiguous Piles

Rev 3.0 - 27 April 2021

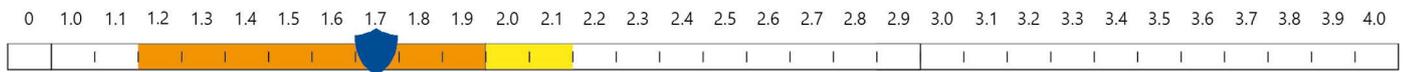


BUILD

WALL CONSTRUCTION:
Reinforced Concrete (RC)

FLOOR CONSTRUCTION:
RC Raft

NWI SCORE



This specification employs 1 form of waterproofing (Type B - Integral Protection) to prevent ground water passing through to the structural elements of the building to the desired internal environment is achieved. The effectiveness of the waterproofing is dependent on the Type B structure being effective



NOTES

To improve the NWII score and provide a grade 3 environment install Newton CDM System as per Newton Specification Sheet AC-02.

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.

SPECIFICATION

TYPE B ANCILLARIES

Install [Newton HydroTank System](#) to all construction joints and service penetrations.

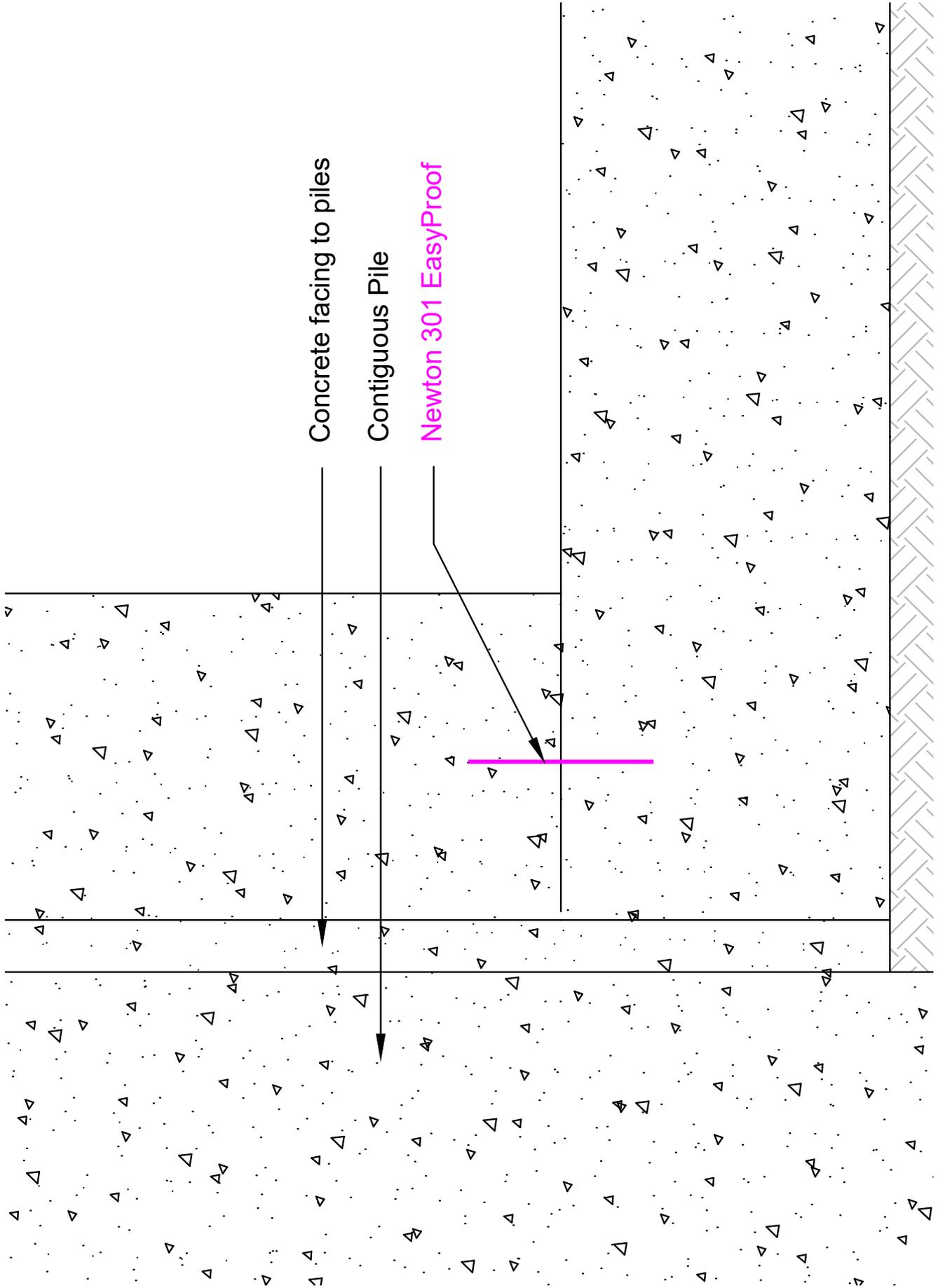
NEWTON WATERPROOFING INDEX

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 NWII 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.

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.

B-05

Integral Waterproofing of Contiguous Piles



Type B Waterproofing

B-05 SPECIFICATION OUTLINE

Integral Waterproofing of Contiguous Piles

The following specification provides 1 form of waterproofing

| | |
|------------------------------------|--|
| Specification | B-05 |
| Description | Combined waterproofing to RC structure. No gas protection. |
| Build | Contiguous piled walls, reinforced concrete walls, supported from an RC raft designed with flexural and through section crack widths limited to 0.2mm, and which conforms to BS EN 1992 |
| 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 |
| Place Raft | Pay particular attention not to damage the 315 Polymer-Waterbar during vibration of the concrete. |
| Ancillaries | |
| Newton 315 Polymer-Waterbar | Hydrophilic Waterbar for sealing the joint between the slab and the wall. |

Type B Waterproofing

B-05 NBS CLAUSE

Integral Waterproofing of Contiguous Piles

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

NEWTON E40 - NEWTON HYDROTANK SYSTEM

[E40 Designed joints in in situ concrete](#)

120 CONSTRUCTION/ MOVEMENT JOINTS GENERALLY

Newton 301 EasyProof

Coated metal waterbar system used for sealing kickerless construction joints within retained concrete structures. It features an adhesive, reactive polymer coating on one of its sides which creates a permanent watertight seal that works immediately.

Installation is quick and easy with the waterbar fitted in place to the reinforcement steel with special clips so that after the placement of the concrete, the waterbar is fully embedded within the two adjoining elements, completely blocking the passage of water through the joint.

Because Newton 301 EasyProof is not fixed to one of the concrete elements as is the case with conventional waterbars, the forming of a kicker is not necessary. Where the walls are formed above a kicker joint, use Newton 315 Polymer-Waterbar.

Newton 301 EasyProof metal waterbar is certified to resist water pressure of up to 5 bar (50m), and is resistant to all types of naturally occurring ground water types.

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 301 EasyProof 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 precast 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](#)