

Type B Waterproofing

B-02 SPECIFICATION SHEET

Integral Waterproofing of Concrete Structure



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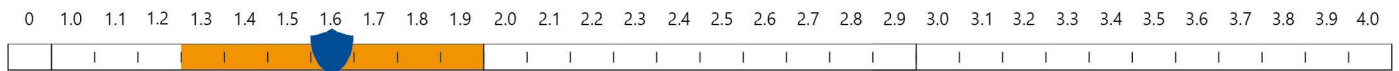


BUILD:

WALL CONSTRUCTION:
Reinforced Concrete (RC)

FLOOR CONSTRUCTION:
RC Raft

NWI SCORE



This specification employs 1 form of waterproofing (Type B - Integral Protection) to provide the desired internal environment is achieved. The effectiveness of the waterproofing is dependent on the Type B structure being placed correctly.



SPECIFICATION

TYPE B ANCILLARIES

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

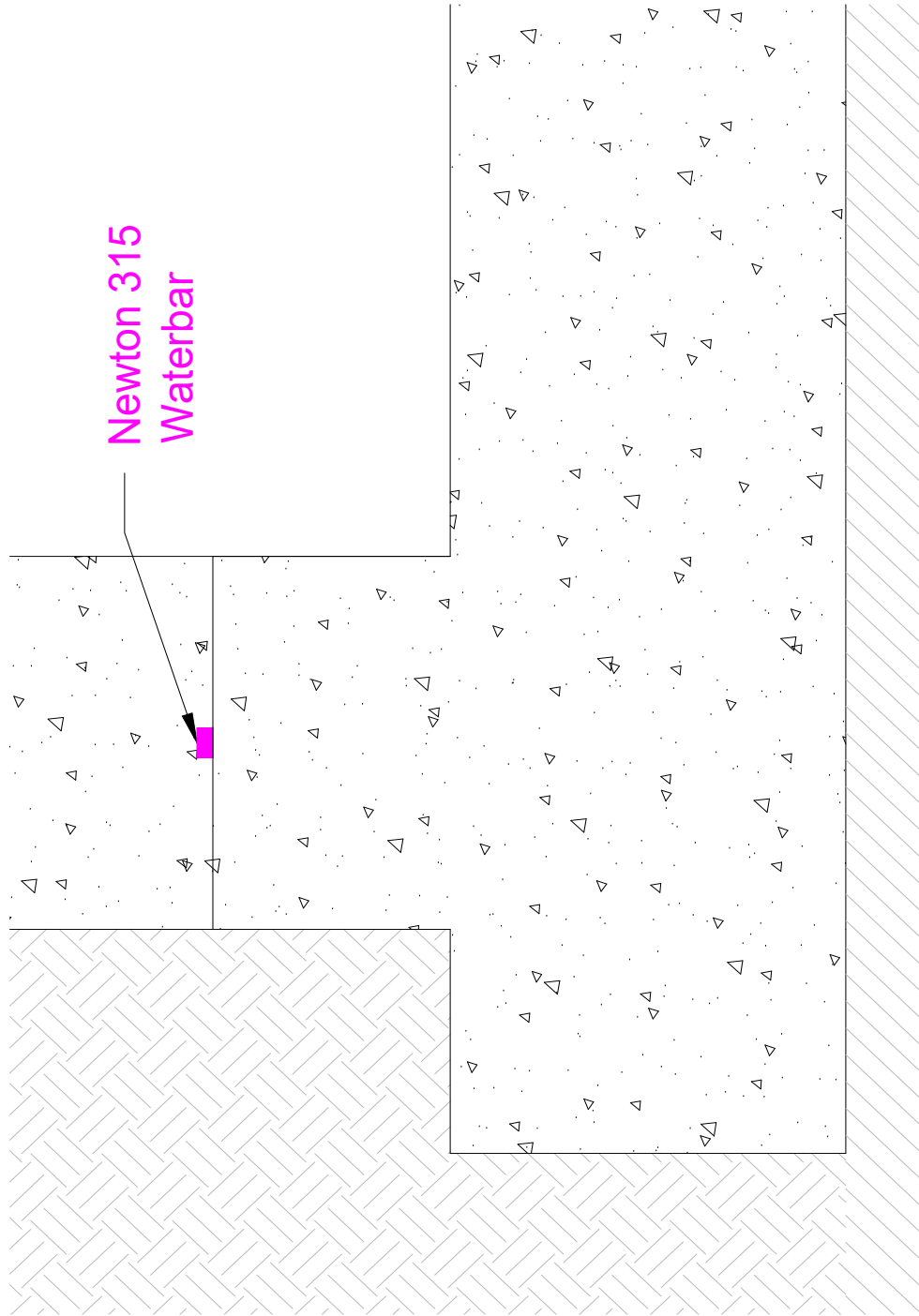
To improve the NWI score and provide a grade 3 environment install Newton CDM System as per Newton Specification Sheet BC-03.

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.



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B-02 OUTLINE SPECIFICATION

Integral Waterproofing of Concrete Structure

The following specification provides 1 form of waterproofing

Specification	B-02
Description	Integral waterproofing to RC structure. No gas protection.
Build	Reinforced concrete walls to BS EN 1992, supported from Reinforced concrete raft to BS EN 1992.
NEWTON HYDROTANK	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	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.

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B-02 NBS CLAUSE

Integral Waterproofing of Concrete Structure

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 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](#)