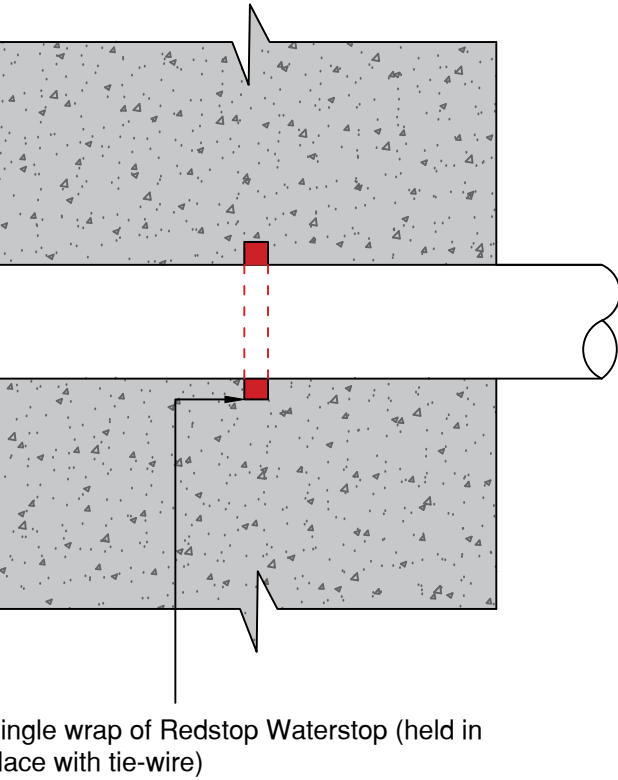
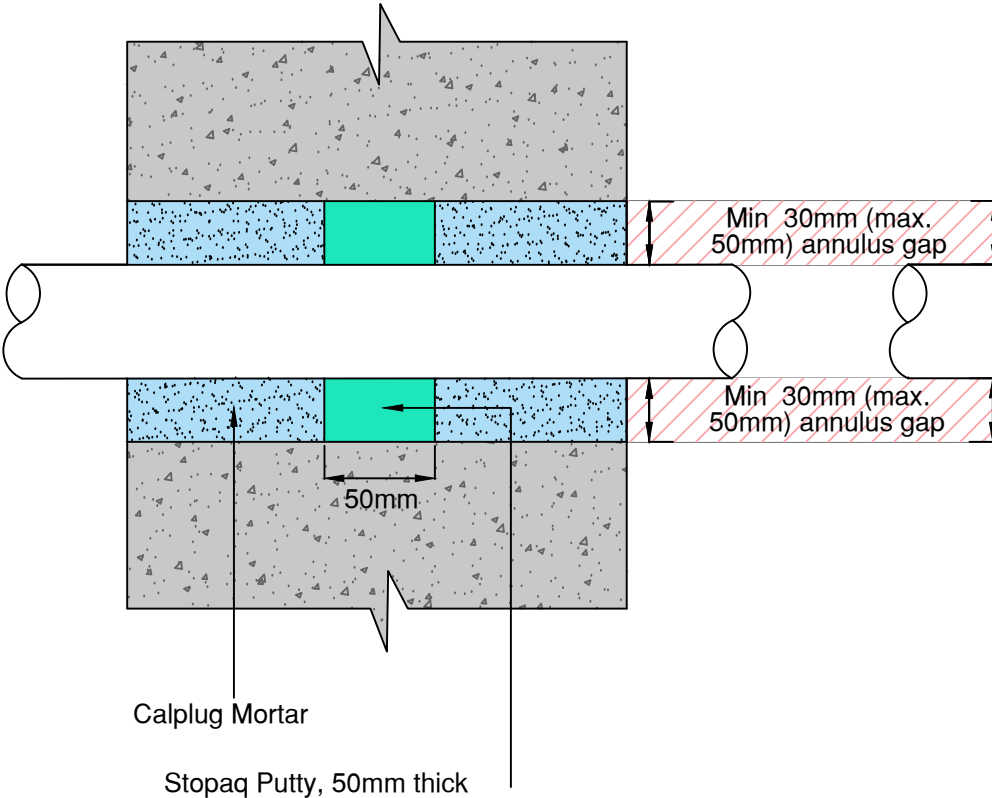


TYPICAL PIPE PENETRATIONS

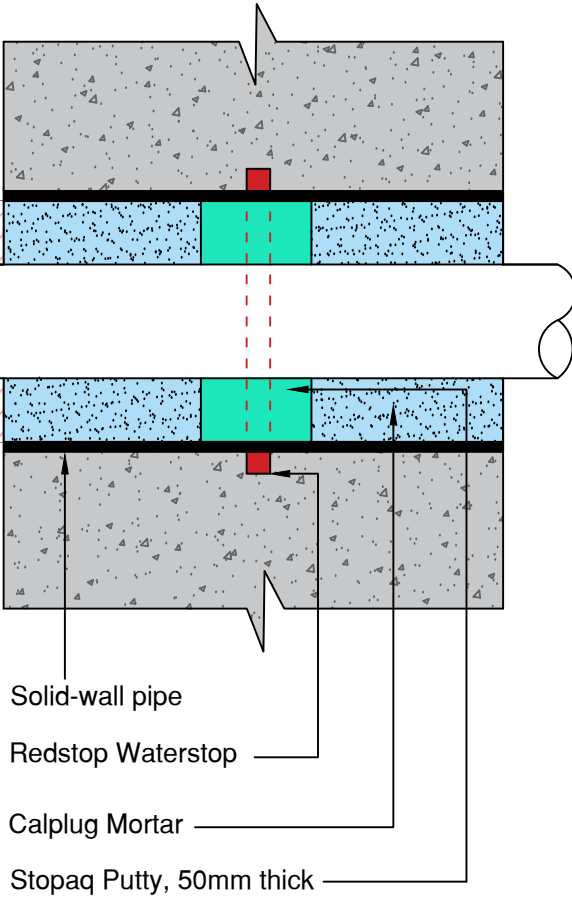
TYPICAL CAST-IN SERVICE PIPE WATERPROOFING DETAIL



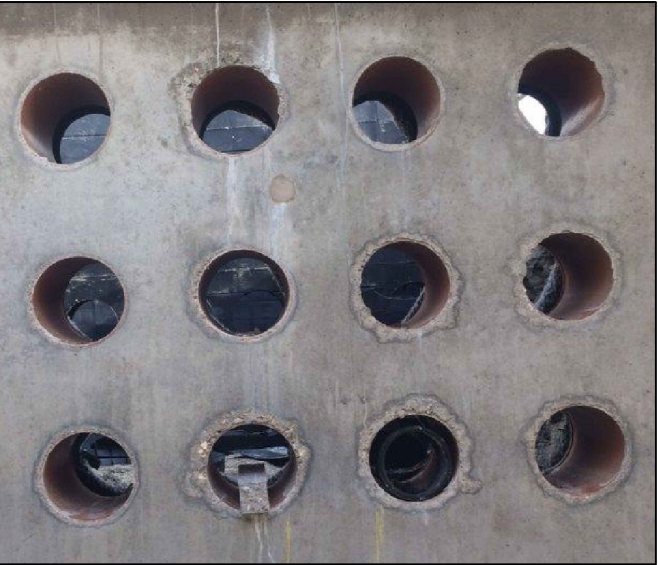
TYPICAL WATERPROOFING DETAIL FOR SERVICE PIPE THROUGH A CORED HOLE



TYPICAL WATERPROOFING DETAIL FOR SERVICE PIPE THROUGH A CAST-IN DUCT



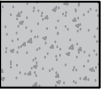
Note: Where multiple services are cast into a slab or wall - as shown below - there should be a minimum gap between pipes of 70mm.



NOTE: The waterproofing details for the cored hole and duct are only covered by the Cementaid waterproofing guarantee if the sealing is done by Cementaid as a chargeable item.



KEY

 = Caltite waterproof concrete. To be a min. of 200mm thick

Note: Where we are given design drawings and asked to comment on the use of Everdure Caltite to provide integral concrete waterproofing, where specified, please note that, whilst we will make every effort to comment appropriately on issues required by the Cementaid specification for the use of Everdure Caltite, we accept no responsibility or liability whatsoever in regard to the structural detailing and design.

PIPE PENETRATIONS & SERVICE DUCTS:

Where service pipes or penetration sleeves are cast in place, a single piece of Redstop Waterstop should be placed around the sleeve and held in place with tie-wire. The minimum cover from the face of the concrete to the joint-strip wrapped around the pipe is 70mm.

Care must be taken not to drop or pour concrete directly onto pipe surfaces as this could dislodge the Redstop Waterstop. Extra attention must be paid to ensure full compaction of the concrete around service penetrations and the proper placement and withdrawal of the poker vibrator around all penetrations, recognising that a normal 50mm poker will only vibrate concrete within 250mm of where it is inserted.

Where multiple services are cast into a wall or through a slab, there should be a minimum gap between pipes of 70mm.

Prior to placing concrete, the Redstop Waterstop must be protected from water to prevent it from swelling. If it expands prior to concrete being placed, it will have to be taken out and replaced.

PLEASE NOTE: Twinwall flexible piping should NOT be used to form service entry ducts through Caltite concrete.

CEMENTAID

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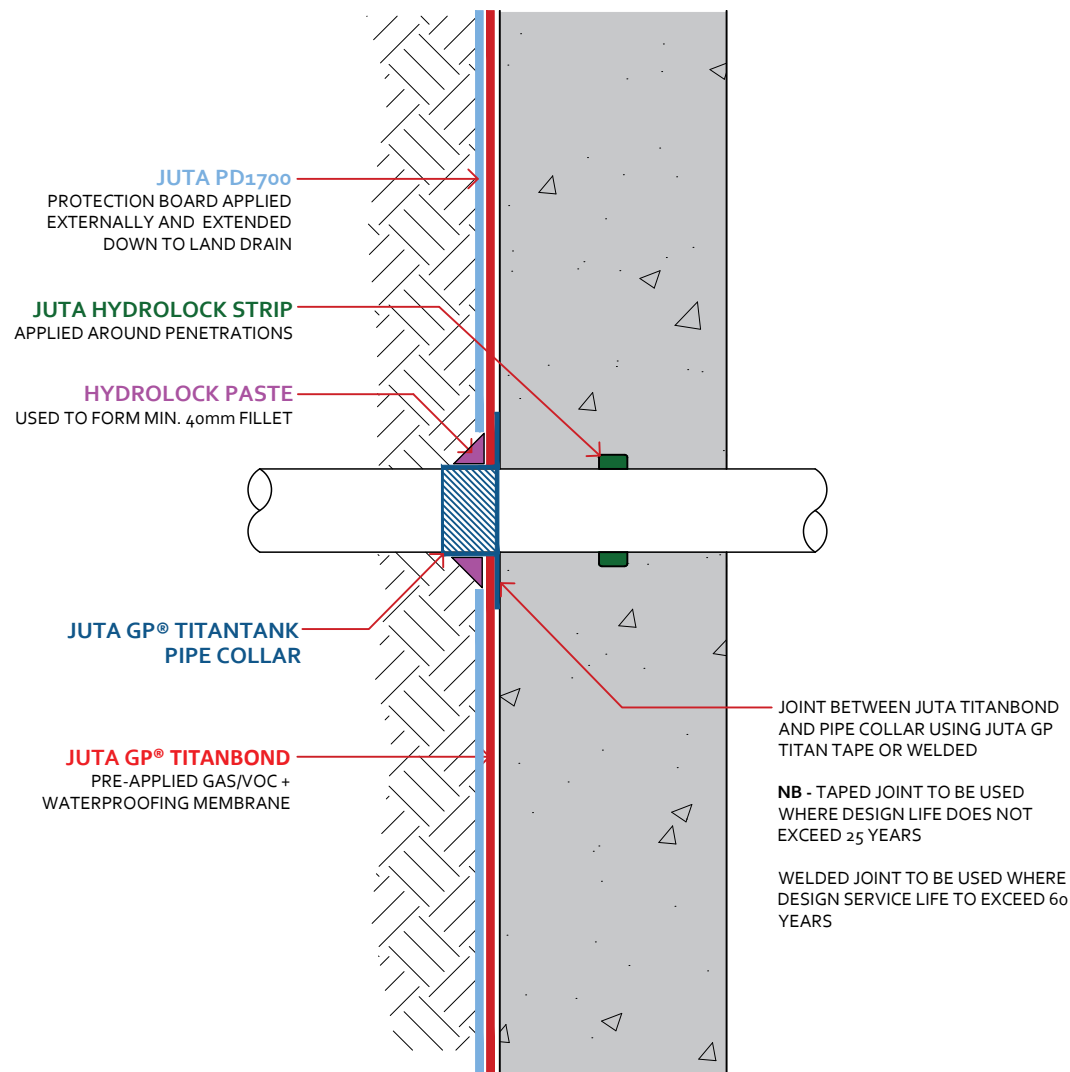
Project: Radcliffe Hub, Bury

Client: Vinci

Title: Typical Service Penetrations (RS)

Date: 7-5-24

Drawing No. : RH-06



CLIENT JUTA UK LTD

PROJECT GP® TITANBOND - Standard Details



- NOTES
- Detail is generic to application so should not be used as a guide not a specific installation detail.
 - GP®TITANBOND is a TYPE A Waterproofing membrane, in accordance with BS8102:2009, suitable for Grade 1, 2 and 3 Basement constructions.
 - GP® TITANBOND is a proprietary gas and VOC resistant DPM, manufactured and certified to adhere to the requirements of BS8485: 2015+A1: 2019 and CIRIA C748: 2014 as a radon, carbon dioxide, methane and VOC barrier.
 - Jointing and sealing using tapes is acceptable where anticipated design service life does not exceed 25 years.
 - Jointing and sealing by hot air welding is recommended where the anticipated design service life is required to exceed 60 years.
 - The use of butyl and bitumen based tapes in environments where VOC and Hydrocarbons are a perceived risk should be avoided. A thermal/welded joint system should be adopted.
 - It should be noted that the suitability of the welded joint is defined by the joint integrity, as tested in accordance with CIRIA C735: 2014. This is most commonly tested by air lance integrity testing to ASTM D4437-08: 2013. If the joint passes this test it is deemed acceptable in the verification process.
 - In all cases it is recommended the installation of gas barrier geomembranes is completed by a suitably qualified and accredited installer (NVQ L2/TW/CSWIP or equivalent). Juta UK can offer advice as to the suitable/recommended installers.
 - The gas protection system installation should be subject to third-party independent verification, in accordance with BS8485: 2015 +A1: 2019 and CIRIA C735: 2014.
 - All design decisions made by others that might have an impact on the gas and waterproof design performance should be brought to the attention of the design team and Juta UK Ltd. Final decisions and/or any recommendations should be approved by the design team and Juta UK Ltd.
 - Dimensions are not to be scaled from this drawing. All written measurements are to be checked on site by the contractor.
 - All rights described in chapter IV of the copyright, design and patents act 1988 have been generally asserted.

DRAWING TITLE			
JUTA GP® TITANBOND SINGLE HORIZONTAL PIPE PENETRATION			
DRAWING NUMBER			
JUTA.TB.017			
DRAWN BY	CHECKED BY	SCALE	DATE
PD	PF	Not to Scale	Dec. 2020
		MELTON GROVE WORKS BLACKPOOL ROAD LYTHAM FY8 5PL	
		Tel: 01772 754177	