

**GROUND GAS
PROTECTION
GP® TITANBOND®
PRODUCT DATA
SHEET**

JUTA



TITANTECH®



GP® TITANBOND®

GP® TITANBOND® is a fully bonded waterproofing membrane incorporating the GP® TITANBOND® membrane and a heavy duty virgin polypropylene geotextile.

The geotextile is laminated to the membrane to provide a dual function; protecting the membrane from damage, and providing an integrated 'bond' to poured concrete. GP® TITANBOND® ensures a fully bonded waterproofing barrier which has exceptionally high resistance to ground gas and VOCs.

Certifications



Please Scan



Rev 2024

GP® TITANBOND® is used for the gas / VOC / waterproofing of underground structured where harmful ground gasses are anticipated, as a pre applied fully bonded membrane.

Features and benefits:

- Can be a fully welded system.
- Exceptional chemical resistance.
- Long term durability - performance is guaranteed for the lifetime of the building.
- Conform with the latest codes of practice as published by BRE, CIRIA and BSI.
- High resistance to ground gases.

Part of the GP® TITANTECH® family of membranes, the GP® TITANBOND® is a high performance, hydrocarbon barrier, manufactured from a unique HDPE resin. The primary membrane has excellent chemical resistance and is ideal for use on sites affected by hydrocarbon and VOC contamination. It will also effectively prevent the ingress of a number of other harmful gases, including radon, methane and carbon dioxide.

Physical Properties

Thickness	2.0 mm
Width	1.9 m
Length	25 m
Weight	650 g/m ²

Gas Permeability

Methane	0.13
Carbon Dioxide	3.01
Radon	1 x 10 ⁻¹²

Compliance and Certification

CE MARK - EN13967:2012
NHBC Standards Compliant
B58485:2015 +A1 2019 Accordant
CIRIA C748 Accordant
BBA Certified - Certificate No. 18/5581 P1

Specification Clauses

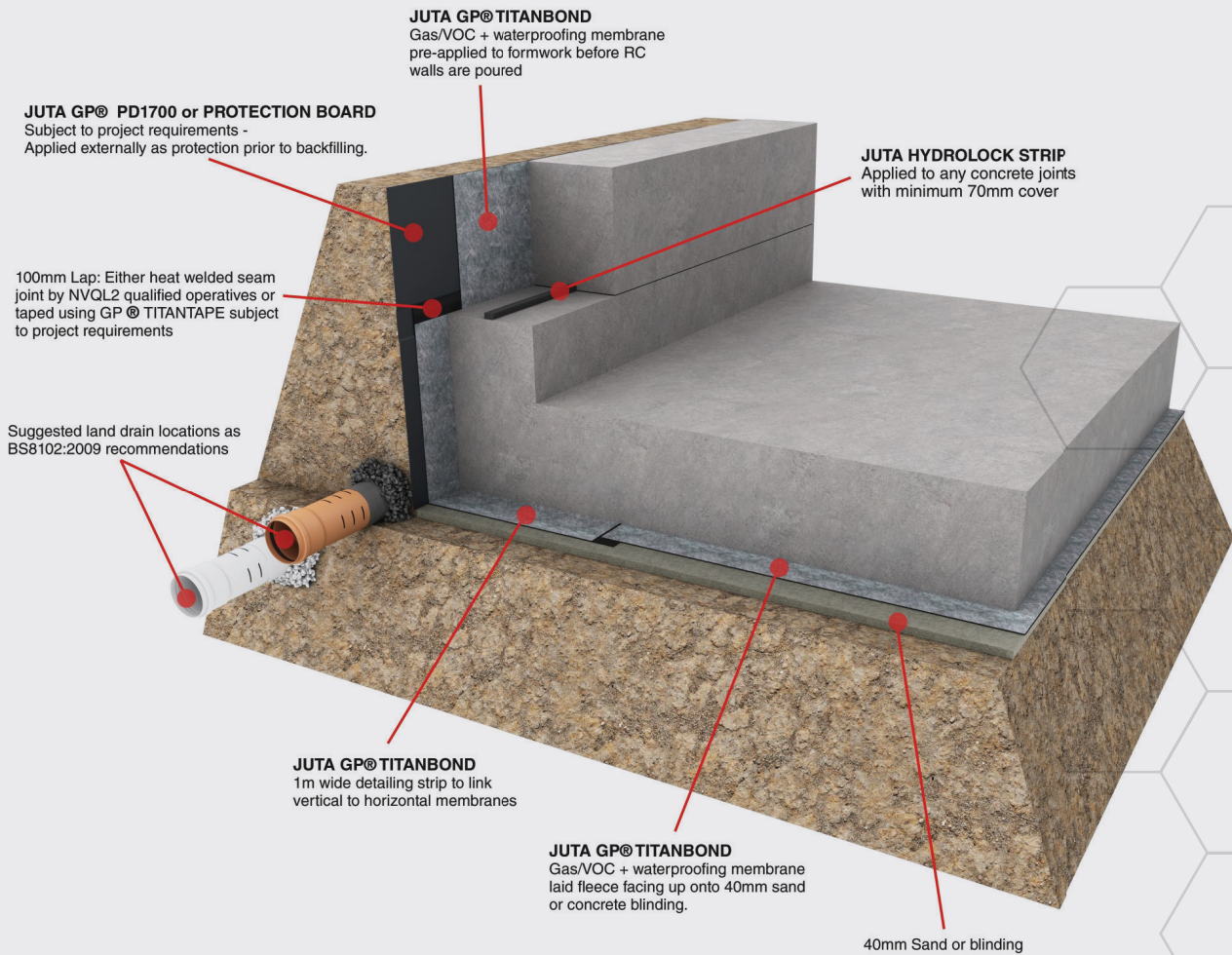
Uniclass 2015 - PR_25_57_65_90
Plastic Sheets
CAWS - J40/145 Loose laid weldable polyethylene gas retardant damp proofing
J40/140 loose laid plastics or rubber sheet gas retardant damp proofing
D21/350 Gas retardant membrane



GP® TITANBOND® Vapour Permeability 100% Concentration

Benzene	< 3.6 mg /m ² / day	Vinyl Chloride	< 0.05 mg /m ² / day
Toulene	< 13.8 mg /m ² / day	Trichlorothene (TCE)	< 54.7 mg /m ² / day
Ethyl Benzene	< 2.7 mg /m ² / day	tetrachlorothene (PCE)	< 26.2 mg /m ² / day
Xylenes (M,P,O)	< 7.7 mg /m ² / day	Napthalene	< 0.0006 mg /m ² / day
Hexane	< 0.6 mg /m ² / day	CIS-1,2-Dichloroethylene	< 1.1 mg /m ² / day

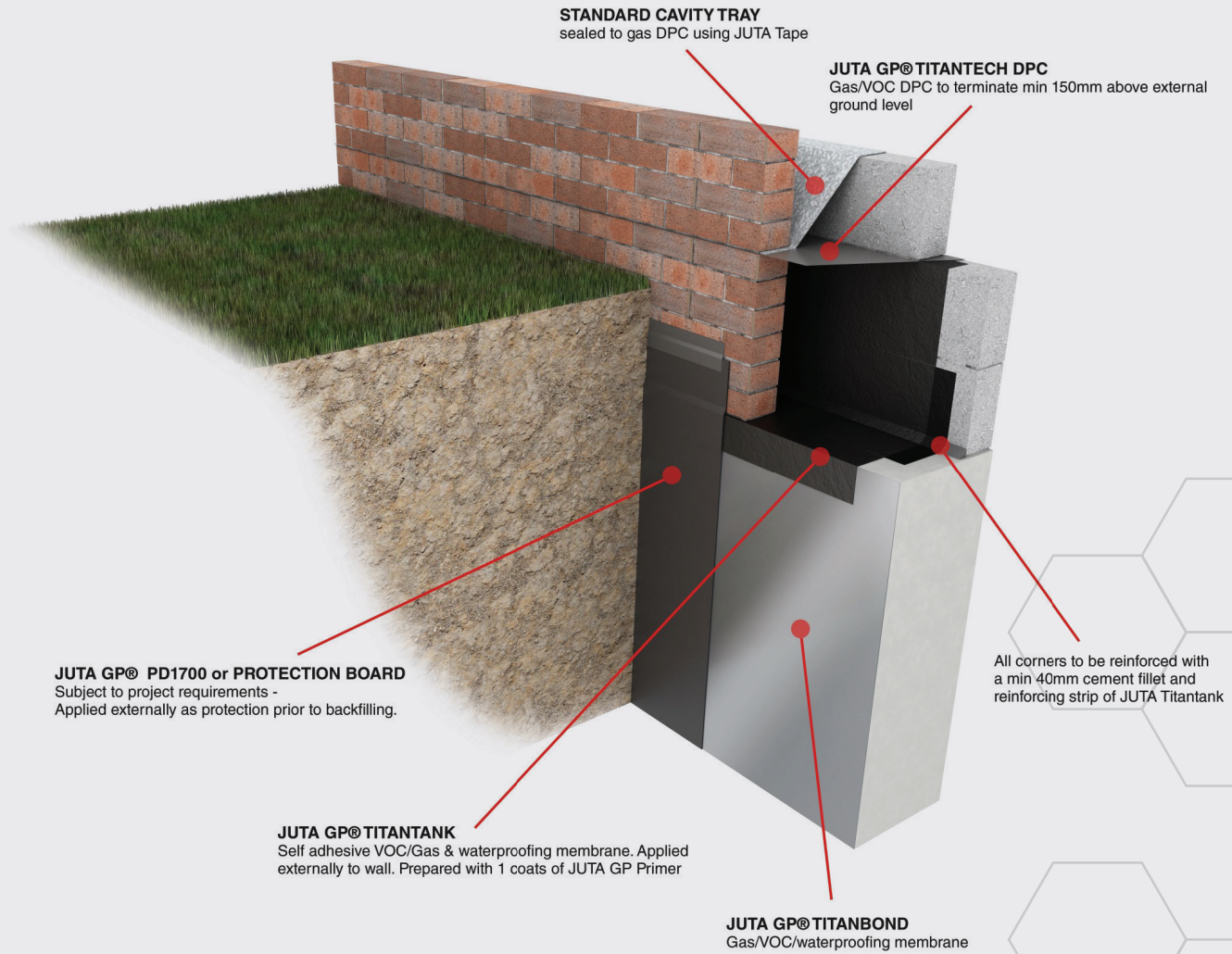
Standard Detail - Slab / Wall Kicker Joint



Various typical details available on request. Please contact technical@juta.co.uk for further information



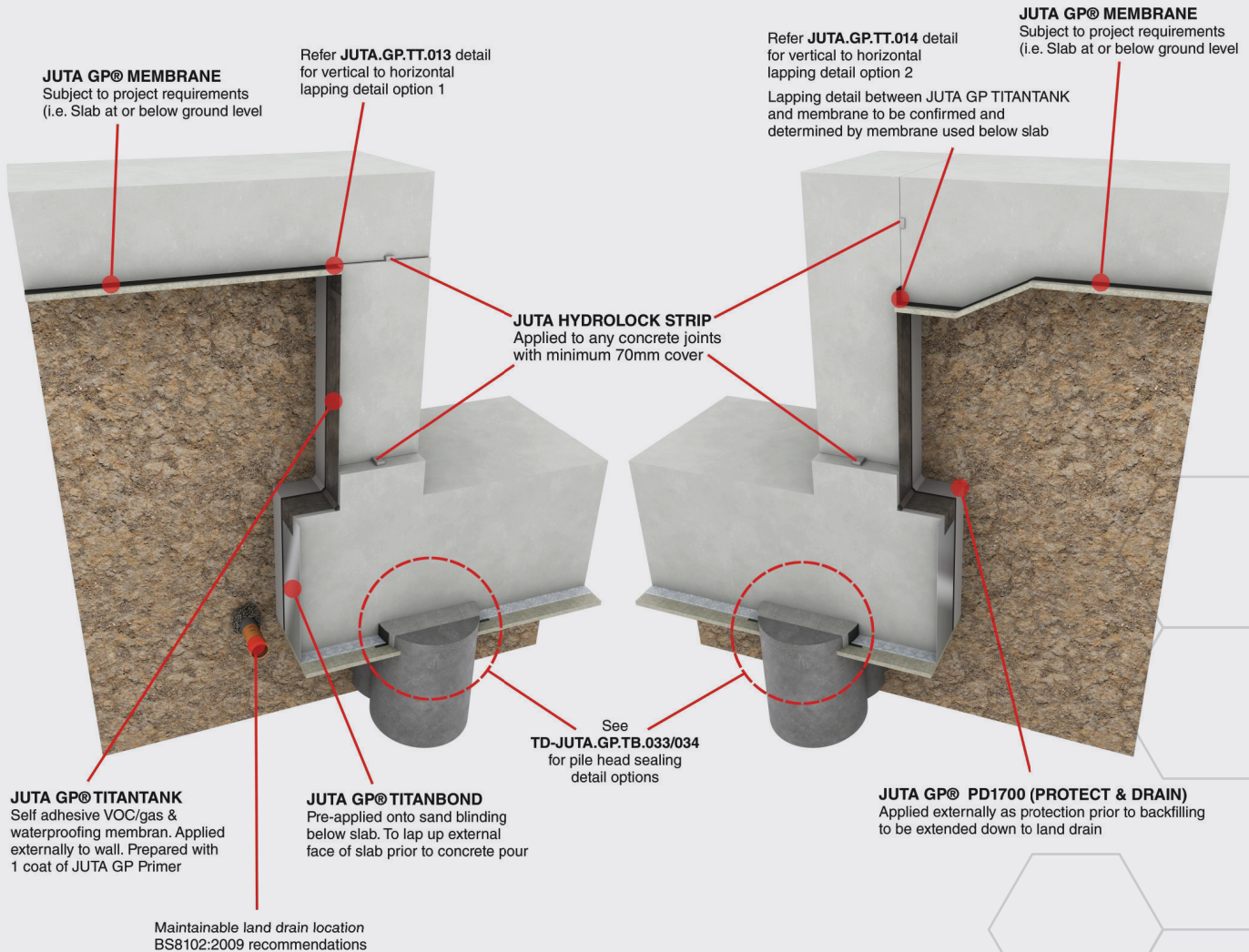
Standard Detail - Head of Retaining Wall



Various typical details available on request. Please contact technical@juta.co.uk for further information



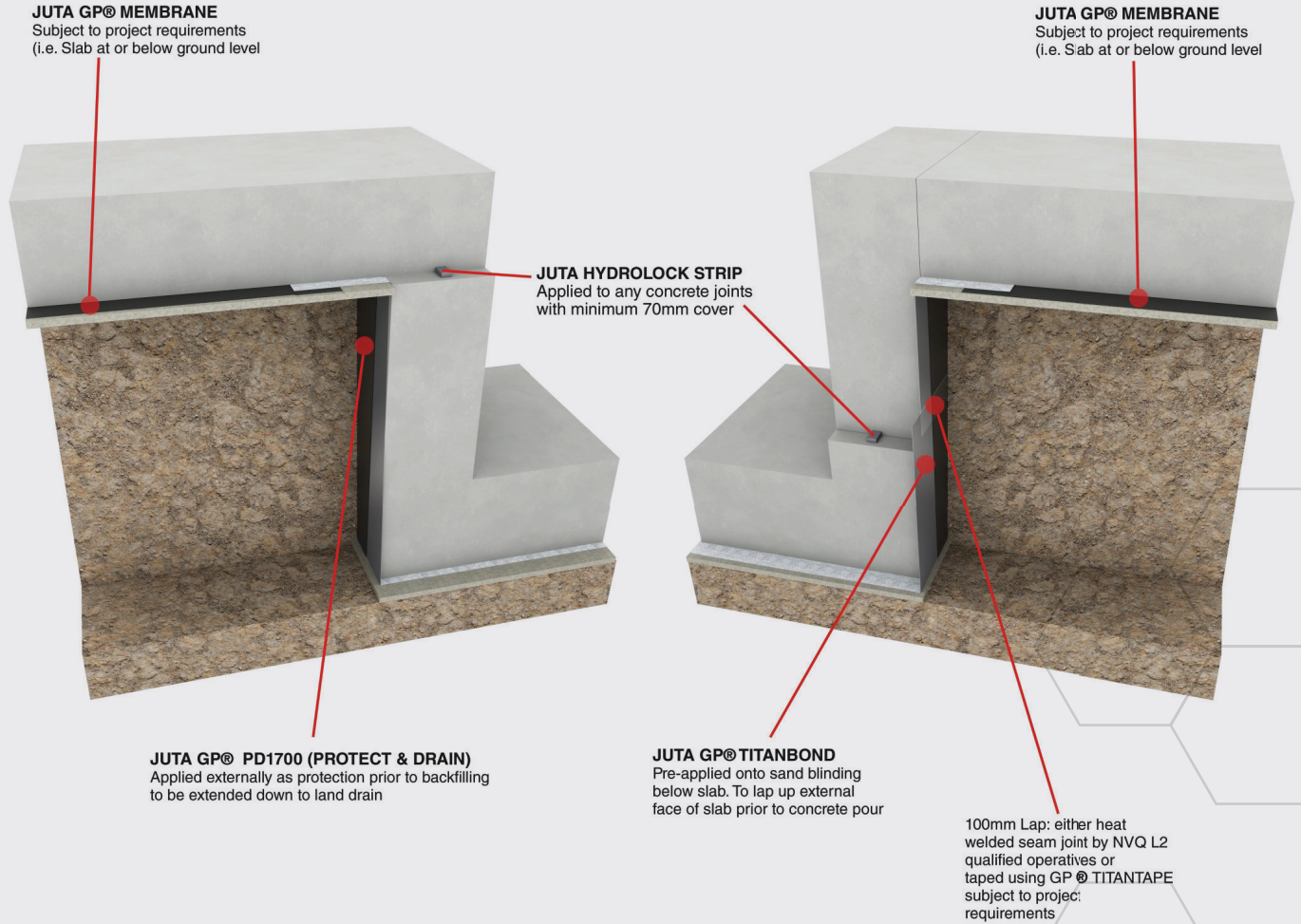
Standard Detail - Typical Piled Pit



Various typical details available on request. Please contact **technicalejuta.co.uk** for further information



Standard Detail - Typical RC Pit



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request. Please contact
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information

