

HEAT WELDED SEAM JOINT BY NVQ L2  
QUALIFIED OPERATIVES

**JUTA GP® TITANFLEX**  
GAS & VOC RESISTANT MEMBRANE  
INSTALLED ONTO MIN. 40mm SAND  
BLINDING

**JUTA GP® TITANTANK**  
SELF ADHESIVE GAS/VOC &  
WATERPROOFING APPLIED  
EXTERNALLY TO WALL PREPARED  
WITH 1 COAT OF JUTA GP PRIMER.

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**300TT PROTECTION FLEECE**  
TO BE USED WHERE NO  
INSULATION USED AS PROTECTION

**JUTA PD1700**  
(PROTECT & DRAIN) APPLIED EXTERNALLY AS  
PROTECTION PRIOR TO BACKFILLING - TO BE  
EXTENDED DOWN TO LAND DRAIN

**JUTA GP® TITANTECH DPC**  
JUTA GP TITANFLEX CAN BE USED AS THE DPC  
PROVIDING THERE IS NO LATERAL SHEAR AS PER  
BS8215:1991. IF LATERAL SHEAR IS A DESIGN  
CONSIDERATION THEN JUTA GP DPC TO BE USED

**JUTA GP® TITANFLEX**  
GAS & VOC RESISTANT MEMBRANE  
INSTALLED ONTO MIN. 40mm  
SAND BLINDING

**MAINTAINABLE LAND  
DRAIN LOCATION AS  
BS8102:2009  
RECOMMENDATIONS**

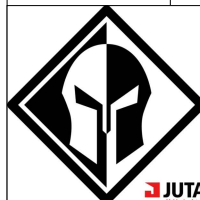
DRAWING TITLE  
**JUTA GP TITANFLEX - RETAINING WALL DETAIL**

DRAWING NUMBER  
**JUTA.TF.034**

NOTES

- Detail is generic to application so should be used as a guide not a specific installation detail.
- GP® TITANFLEX 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.
- GP® TITANFLEX provides radon protection, in accordance with Approved Doc C (UK) and Technical Guidance Document C (Ireland).
- Jointing and sealing 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.

DRAWN BY <b>PD</b>	CHECKED BY <b>PF</b>	SCALE <b>Not to Scale</b>	DATE <b>Oct 2020</b>
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