



GEOSHIELD Verification Plan



PROJECT REFERENCE:

GEO1001700/KC/P

PROJECT:

Porcelenosa: Kenwood Construction

PROJECT ADDRESS:

21 Rose Kiln Lane

Reading

RG1 6SP

SPECIFICATION:

Membrane to BS8485 2015

Installed and Verified to CIRIA 735

Hydoprufe 9000

Hydoprufe 8000

Dual Tape

Girth Tape

Foil backed detailing tape

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SPECIFICATION cont:

Hydroprufe LG Liquid Gas Membrane

DRAWINGS ISSUED

31363/5002/003 C1 Foundations and ground floor plan

31363/5002/020 C2 Substructure Sections

365001 Rev A

365002 Rev A

365003 Rev A

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SURVEYOR:

Paul Colbeck

VERIFICATION COMPANY:

GEOSHIELD LIMITED

Hoyle Mill Road

Kinsley

West Yorkshire

WF9 5JB

CONTACT NUMBER:

07462 546926

EMAIL ADDRESS:

paulcolbeck6@gmail.com

ORDER NUMBER:

TBC

PER VISIT: YES:

☐

NO:

☐

PROJECT: YES:

☒

NO:

☐

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SPECIFICATION

1 of 7

Premcrete

Metro House
Pepper Road
Leeds
West Yorkshire LS10 2RU
Tel: 0800 619 1619
email: sales@premcrete.com
website: www.premcrete.com



Agrément Certificate
12/4957
Product Sheet 1

PREMCRETE GAS RESISTANT DAMP-PROOF MEMBRANES

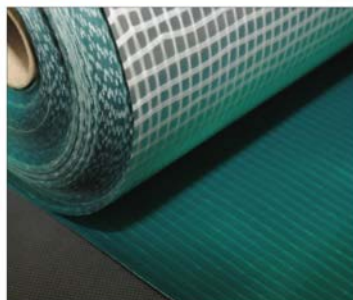
HYDROPRUFE 9000

This Agrément Certificate Product Sheet⁽¹⁾ relates to Hydroprufe 9000, for use as a LDPE gas barrier and damp-proof membrane in solid concrete ground floors not subject to hydrostatic pressure, to protect buildings against moisture, radon, methane and carbon dioxide from the ground.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



KEY FACTORS ASSESSED

Resistance to water and water vapour — the membrane provides an effective barrier to the passage of liquid water and water vapour from the ground (see section 6).

Resistance to underground gases — the membrane is capable of restricting the ingress of radon, methane and carbon dioxide gases into the building (see section 7).

Resistance to puncture — on smooth or blinded surfaces the membrane will accept without damage the limited foot traffic and loads associated with the installation of the system (see section 8).

Durability — under normal service conditions the membrane will remain effective against the ingress of water and water vapour, and will restrict the ingress of radon, methane and carbon dioxide during the lifetime of the concrete slab in which it is installed (see section 13).

The BBA has awarded this Certificate to the company named above for the product described herein. This product has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 11 January 2013

Simon Wroe
Head of Approvals — Materials

Greg Cooper
Chief Executive

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

British Board of Agrément
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Herts WD25 9BA

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website: www.bbacerts.co.uk

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SPECIFICATION

1 of 2

CODE: UXHP 1005
REVISION DATE: 31.07.15



Hydroprufe 8000

Gas Resistant Self-Adhesive Membrane

DESCRIPTION

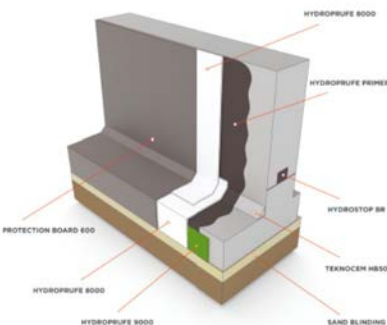
HYDROPRUFE 8000 is a high performance, cold applied waterproof membrane, manufactured from an aluminium/polythene laminate coated on one surface with a layer of self-adhesive polymer modified bitumen.

ADVANTAGES

- Rapid and easy cold application
- Aluminium laminate provides methane and radon protection.
- Flexible and accommodating giving excellent bond to substrate.
- Non-hazardous and resistant to dilute acids and alkalis
- High performance protection against surface and ground water and soluble salts.
- Capable of resisting a 6 metre head of water when fully supported.
- Conforms to BS 8102:2009.

USES

HYDROPRUFE 8000 is used as a high performance self-adhesive waterproofing membrane for substructures where resistance against methane and radon gas is required. Such applications include the waterproofing of basements, underground car parks, water tanks, reservoirs etc.



PROCEDURE

Surface Preparation: The surface should be smooth and free from sharp projections and hollows. Cured concrete bases should be dry and swept free of dust and rubble. Internal and external angles require profiling prior to application.

Priming: Apply Hydroprufe Primer by roller, brush or spray (at a nominal rate of 8 M2 per litre) and allow to dry.

Application: The release paper should be removed for the first 500 mm of the roll and the membrane pressed firmly into position to ensure no air pockets are formed. Application of the roll is then completed by continuing to remove the release paper and smoothing the membrane on to the substrate.

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SPECIFICATION

CODE: UKHP 1036
REVISION DATE: 16.07.15

Hydroprufe 9000

High Performance Gas Resistant Membrane

DESCRIPTION

HYDROPRUFE 9000 is a high performance reinforced, polyethylene gas resistant membrane with a 12 micron aluminium foil core that protects structures from the ingress of Methane, Carbon Dioxide and Radon. This has been specifically designed to conform with the latest guidance documents. Due to its unique composition the membrane is extremely robust and flexible and therefore easy to install on site. The membrane also provides protection from damp and therefore there is no need to install a separate DPM.

USES

Hydroprufe 9000 is designed to protect structures and occupants from dangerous gases that may exist in the ground conditions. It is laid beneath concrete to act as a gas resistant membrane whilst also acting as an effective damp proof membrane.

PROCEDURE

Surface Preparation: When applied beneath poured concrete slabs the sub-base should be well compacted and blinded with sand to prevent the membrane being punctured by any sharp protrusions. If the membrane is to be applied to the top face of a concrete slab then the concrete should be smooth without any excessive surface undulations.

TYPICAL PROPERTIES

Property	Value
Thickness	0.4mm
Weight	0.37 Kg/M ²
Colour	Green/Silver
Nail Tear Resistance	160 N
Moisture/Vapour Transmission Rate	<0.01g/M ² /24 hr
Methane Permeability	7.799 x 10 ⁻¹² Kg/M ²

COMPLIANCE

Hydroprufe 9000 is approved by the BBA certificate No. 12/4957

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SPECIFICATION

CODE: UXHP 5759
REVISION DATE: 18.12.15



Hydroprufe LG

Liquid Applied Gas Membrane

DESCRIPTION

Hydroprufe LG is an elastomeric, one-part polymer modified liquid that dries to form a flexible, black membrane. This single part high-performance product is suitable for Gas proofing, Damp proofing and Waterproofing of vulnerable concrete structures.

USES

Hydroprufe LG is designed for both horizontal and vertical application on substructures and basements. It is suitable for application onto both new structures and existing concrete or masonry to provide a seamless membrane. It can also be applied where there is complex Gas and Damp proofing details.

ADVANTAGES

- Due to rapid drying properties installation is quick.
- Low permeability to Methane, Carbon Dioxide and Radon gases
- Can be used as a vertical and horizontal damp proof membrane
- Will provide a seamless coating, therefore eliminating any weaknesses within the membrane.
- Non-toxic water based liquid
- May be painted or screeded over

TYPICAL PROPERTIES

Property	Values
Liquid Colour	Blue or Grey
Appearance	Dries as Black coating
Curing Time	24-48 Hours
Methane Permeability	0.00864 ml/m ² /day
Adhesive to Concrete	>1.1N/mm ²
Elongation ASTM D2370	>100%
Water Penetration	No Penetration - 3.0 bars
Temperature Range During Application	>5°C

PROCEDURE

Surface Preparation: Surfaces must be clean and free from any surface contamination, such as Oil and Paint. The surface should be smooth and free from any excessive surface undulations. If necessary the substrate should be repaired using a suitable Premcrete concrete repair product. Any standing water must be removed.

Service penetrations must be sealed using a suitable Preformed Top Hat Unit.

Application: Hydroprufe LG is supplied as a ready to use liquid. The liquid must be stirred for 5 minutes before application using a slow speed paddle mixer. Mixing may also be required during use. Hydroprufe LG can be applied by brush, roller or airless spray. Construction joints, and wall-floor junctions should be coated 100mm either side of the joint with the Hydroprufe LG at a coverage of 0.5ltr/m², and the

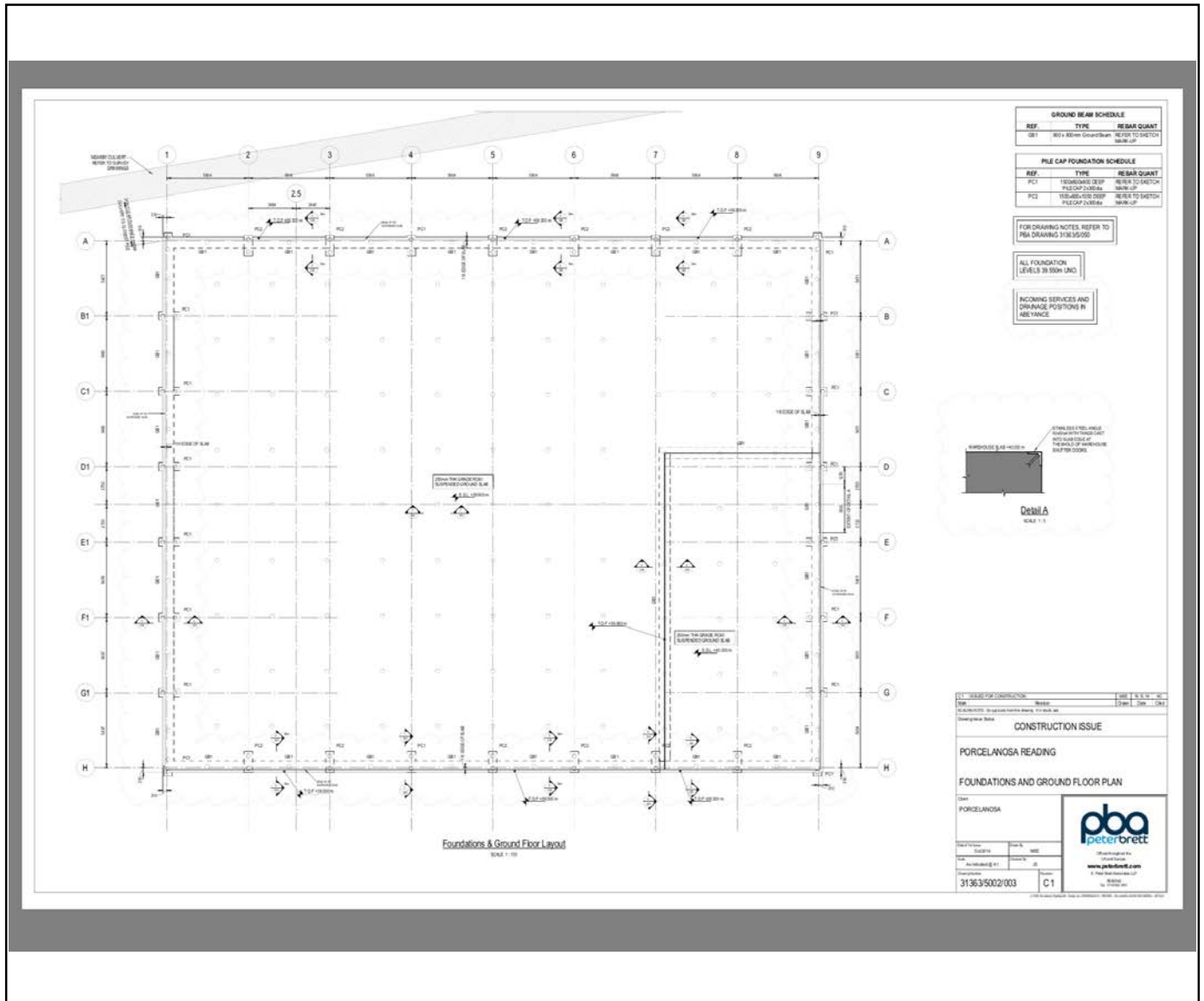
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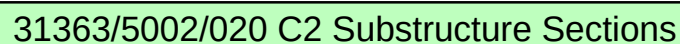


DETAILS



31363/5002/003 C1 Foundations and ground floor plan

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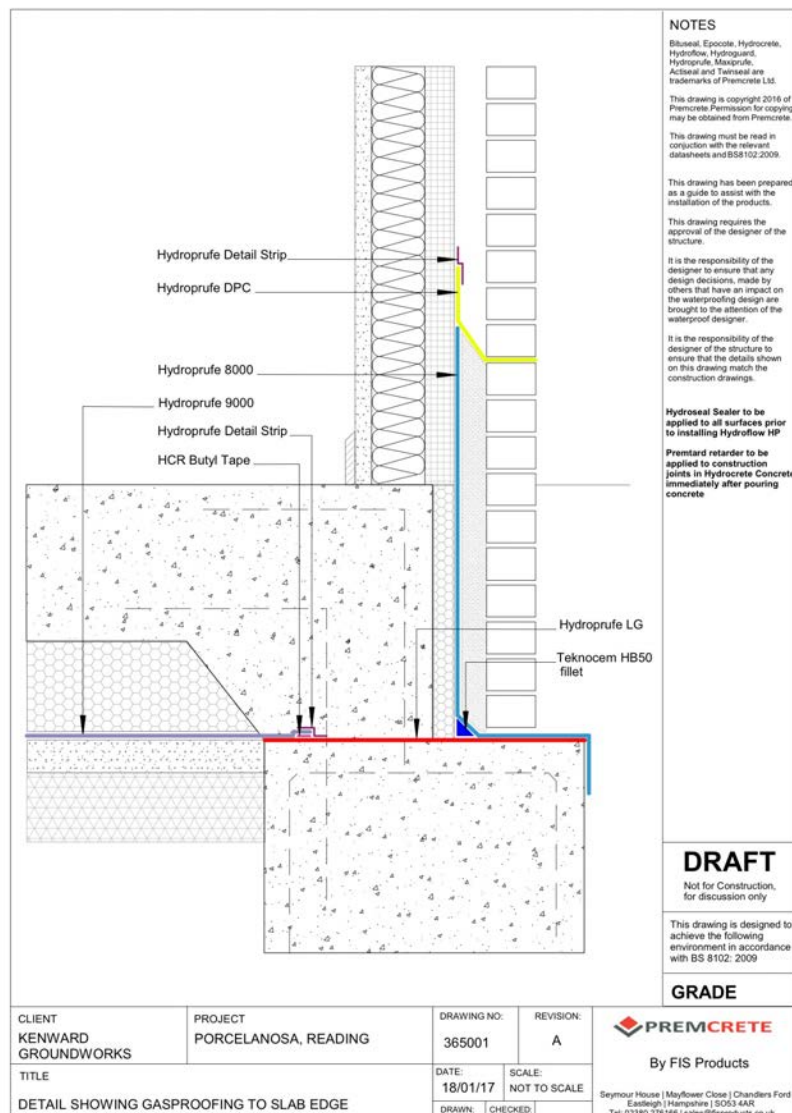
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DETAILS



365001 Rev A

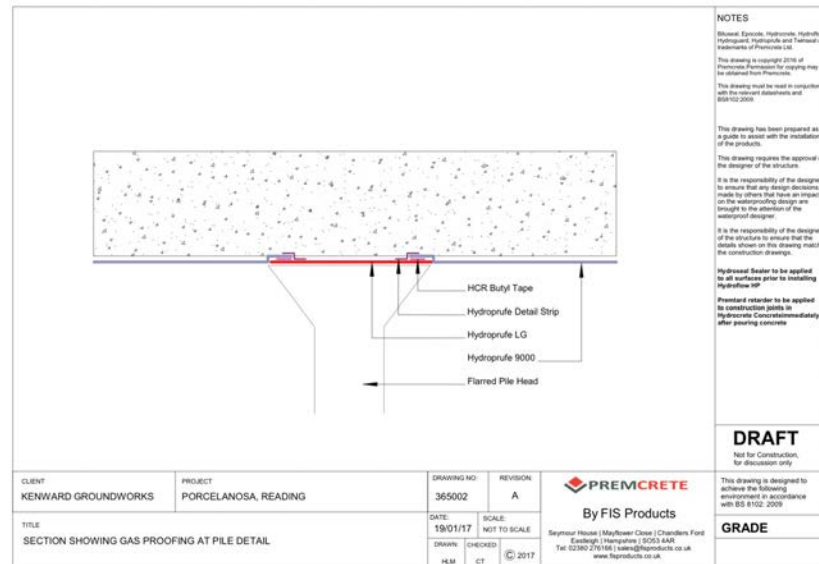
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DETAILS



365002 Rev A

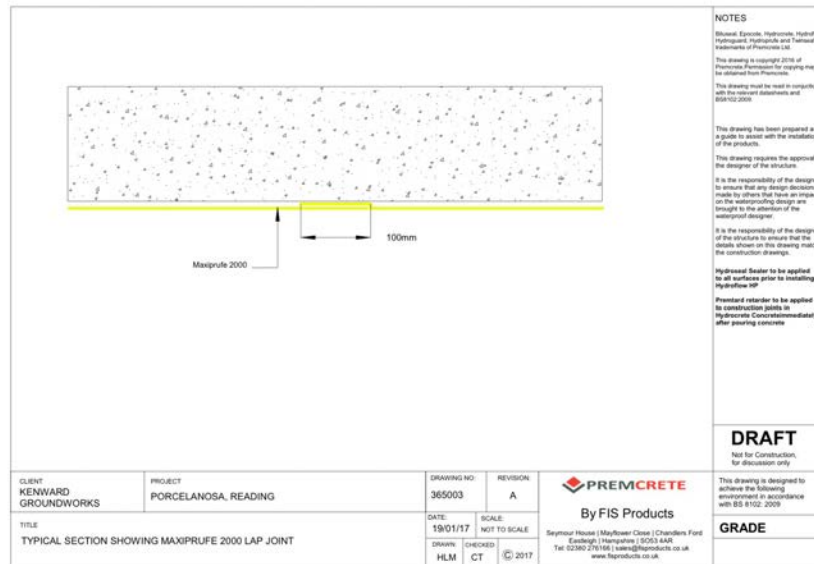
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DETAILS



365003 Rev A

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DETAILS

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DETAILS

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CLIENT DETAILS

CLIENT CONTACT: Stephen Gatehouse

CONTACTS ROLE: Project Manager

MOBILE PHONE:

EMAIL ADDRESS:

CLIENT CONTACT:

CONTACTS ROLE:

MOBILE PHONE:

EMAIL ADDRESS

NOTES:

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APPLICATION TEAM LEADERS

APPLICATOR NAME: Tony Groves: Foreman

COMPANY: Nick Kenward Construction Limited

APPLICATOR TEL: 07730 575862

APPLICATOR EMAIL:

APPLICATOR NAME: Frank Holman

COMPANY: Nick Kenward Construction Limited

APPLICATOR TEL: 07917 688078

APPLICATOR EMAIL:

NOTES:

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HEALTH AND SAFETY

INDUCTION:

YES



NO:



INDUCTION TIME:

8.00am

CSCS CARD:

YES



NO:



CSCS CARD NUMBER:

02205235

METHOD STATEMENT:

YES



NO:



RISK ASSESSMENT:

YES



NO:



COSHH:

YES



NO:



SITE SPECIFIC HAZARDS:

Overhead working

Slip trips and falls

Deep excavations



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NOTIFICATION:

24 HOURS:	YES	☒	NO	☐
48 HOURS:	YES	☐	NO	☐

REASON FOR VISIT:

DURING INSTALLATION:	YES	☒	NO	☐
PRE - POUR:	YES	☒	NO	☐
TESTING:	YES	☒	NO	☐

TRAINING LEVEL:

SPECIALIST CONTRACTOR:	YES	☐	NO	☐
NVQ LEVEL 2:	YES	☐	NO	☐
COMPETENT APPLICATOR:	YES	☒	NO	☐
TOOLBOX BY GEOSHIELD:	YES	☒	NO	☐

NOTES:

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GAS REGIME:

CS1/Green	YES	☐	NO	☐
CS2/Amber	YES	☒	NO	☐
CS3/Amber 2	YES	☐	NO	☐
CS3/ or above/Red	YES	☐	NO	☐

Building Type:

TYPE D

POINTS REQUIRED UNDER BS8485 2015

1.5

POINTS GAINED FROM BS8485 2015

Score for Structural Barrier:	0.5
Grade 2 basement:	N/A
Grade 3 basement:	N/A
Score for Venting:	N/A
Car park:	N/A
Score for Membrane:	2

POINTS ACHIEVED UNDER BS8485 2015

2.5

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TESTING:

VISUAL:	YES	☒	NO	☐
NON-DESTRUCTIVE SMOKE TEST:	YES	☐	NO	☒
NON-DESTRUCTIVE COMPRESSED AIR LANCE:	YES	☒	NO	☐
DESTRUCTIVE JOINT TESTING:	YES	☒	NO	☐
NON-DESTRUCTIVE TRACER GAS:	YES	☐	NO	☒
DIELECTRIC POROSITY TEST:	YES	☐	NO	☒
PUMP TEST FOR "Twinny" WELD	YES	☐	NO	☒

NOTES:

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VERIFICATION REPORT

These items will be included in the report

- NUMBER 1
- NUMBER 2
- NUMBER 3
- NUMBER 4
- NUMBER 5
- NUMBER 6
- NUMBER 7
- NUMBER 8

VERIFICATION REPORT ISSUE

HARD COPY: ☐ ☒ ☐ ☐ EMAIL: ☐ ☐ ☐ ☐

DROP BOX LINK: ☐ ☒ ☐ ☐ FLASH DRIVE: ☐ ☐ ☐ ☐

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MEETING NOTES

Tool box: Instructed 3 groundworkers in application

All materials now on site

Have arranged procedure for calling off Verification Officer

Have instructed in preparation of substrate

Drawings have been Validated

Taped system is been used

GEOSHIELD SIGNITURE:

DATE: 13th March 2017

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