



GEOSHIELD Verification Report



PROJECT REFERENCE: GEO100209

PROJECT: Prologis Park

PROJECT ADDRESS: Stockley Park

Hillingdon

West London

MEMBRANE SPECIFICATION: Gas membrane to specification BS8485 2015

Installed and Verified to CIRIA 735

PAG Monarflex Reflex Super

PAG SAGR

Gas Resistant Self Adhesive Membrane



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MEMBRANE SPECIFICATION:

DESIGN DETAILS:

Drawings as follows :-

PPWL_MSA_DC3_ZZ_M3_A_30952_SO_3301_PO3. Unit 3a floor plan

PPWL_MSA_DC3_ZZ_M3_A_30952_SO_3302_PO4 Unit 3b floor plan

30952-RE-400C Site Layout Plan

Verification Plan will not be legally valid until payment is made.



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SURVEYOR:

John Turnbull

VERIFICATION COMPANY:

GEOSHIELD LIMITED

Suite 46, 4100 Park Approach

Thorpe Park, Leeds

West Yorkshire

LS15 8GB

CONTACT NUMBER:

07502 343063

EMAIL ADDRESS:

michael@geoshield.co.uk

ORDER NUMBER:

PER VISIT: YES:

☐

NO:

☐

PROJECT: YES:



NO:

☐

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CLIENT DETAILS

CLIENT CONTACT: Braydon Macauley

CONTACTS ROLE: Site manager Readie Construction

MOBILE PHONE: 07823389847

EMAIL ADDRESS:

CLIENT CONTACT: Darren Edwards

CONTACTS ROLE: Assistant Site Manager

MOBILE PHONE: 07584 700314

EMAIL ADDRESS

NOTES:

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APPLICATION TEAM LEADERS

APPLICATOR NAME: Matt Payne

COMPANY: PAG Contracting

APPLICATOR TEL: 07900 070805

APPLICATOR EMAIL: matt@pageo.co.uk

APPLICATOR NAME: Lee Childs

COMPANY: PAG Contracting

APPLICATOR TEL: 07977331694

APPLICATOR EMAIL: lee@pageo.co.uk

NOTES: Both applicators are very experienced installers and both qualified to NVQ

NOTES: Level 2

NOTES:

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AREA SURVEYED: E1 -K x 16 -17

SITE CONDITIONS:

WEATHER: Sunny

TEMPERATURE: 28

MEMBRANE TEMPERATURE: N/A

RELATIVE HUMIDITY: N/A

TIME: 12 - 1pm

REPORT NUMBER: 003

DATE: 13/07/2018

ACCOMPANIED: Braydon Macauley

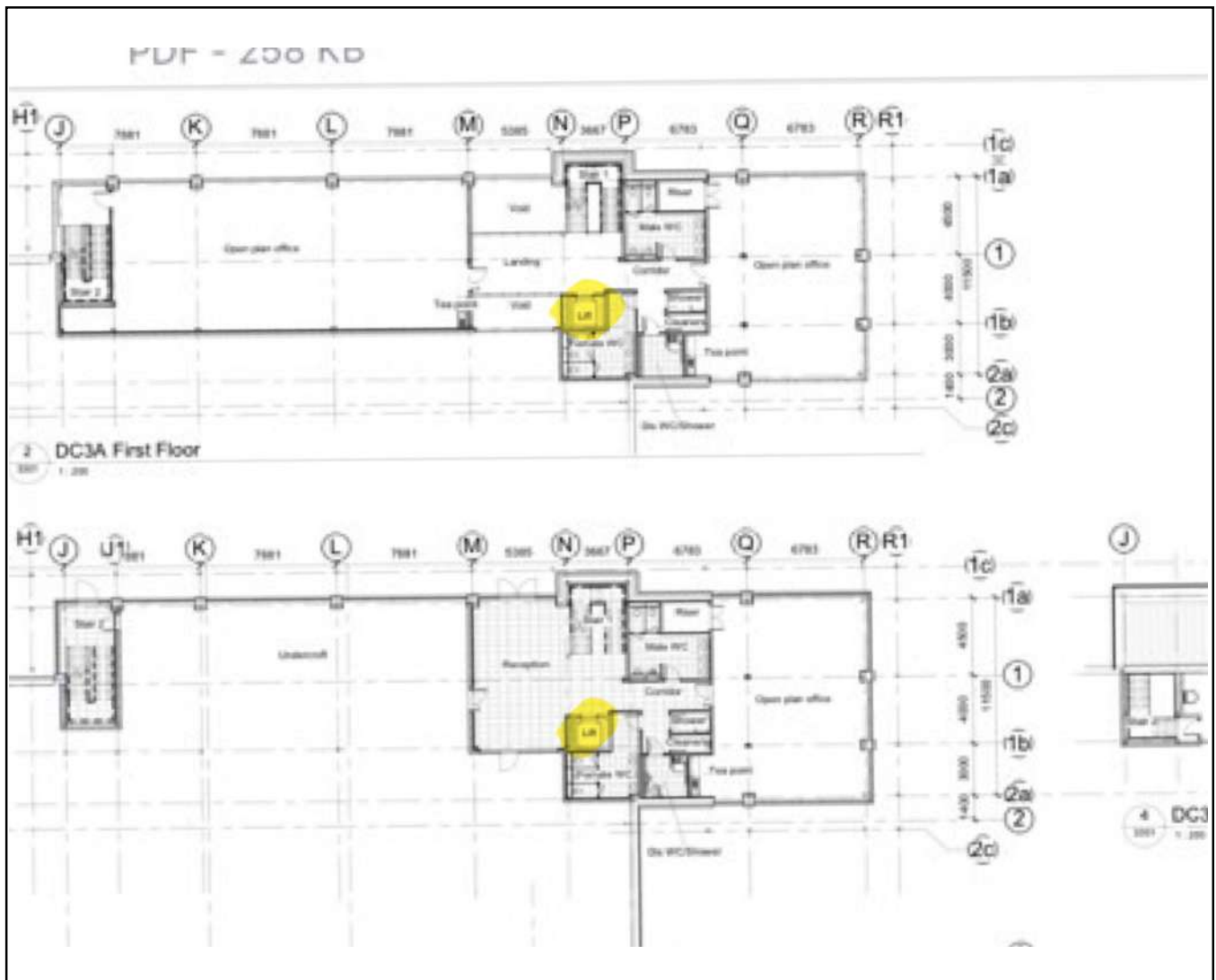
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VERIFICATION LAYOUT



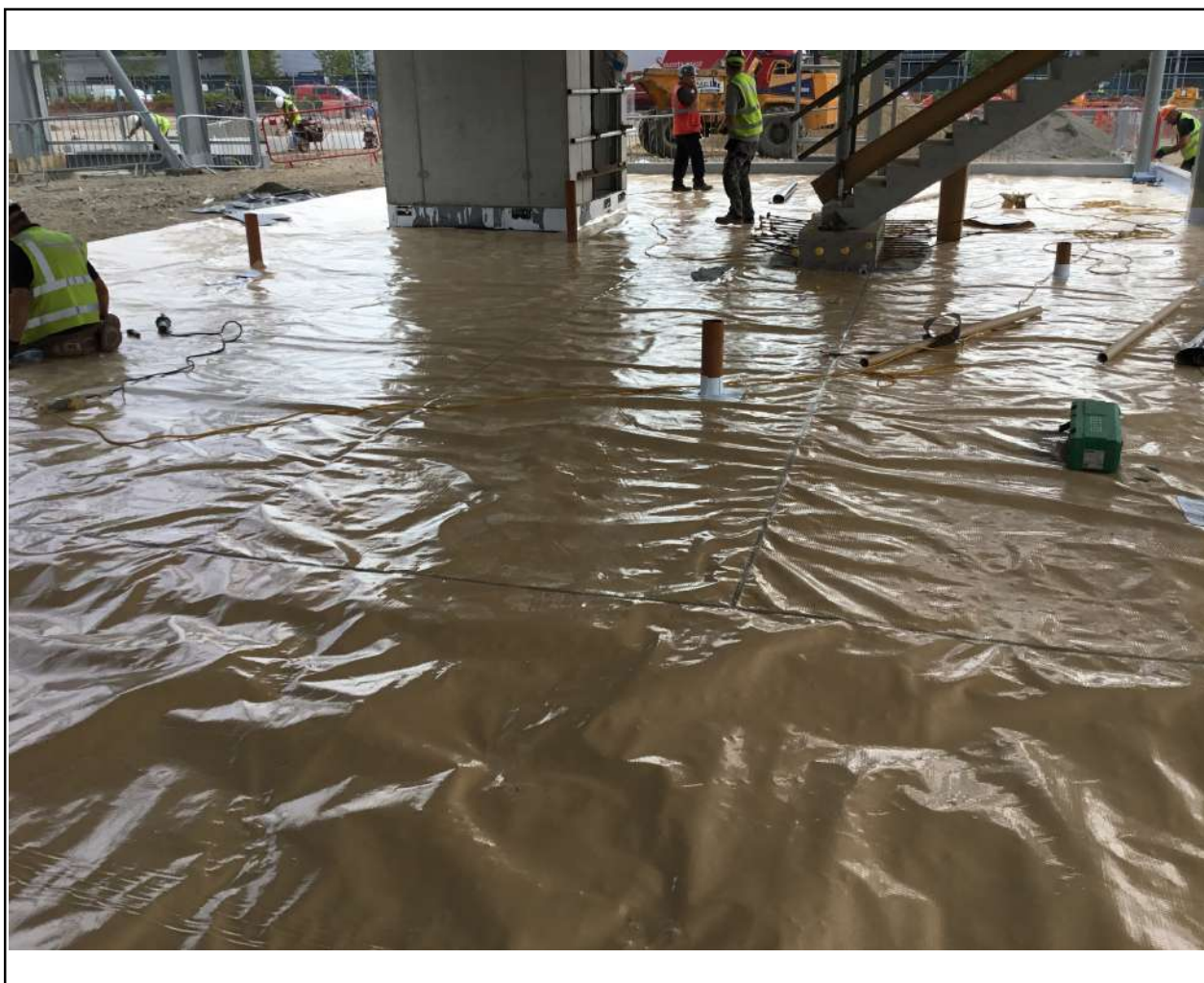
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OVERVIEW PHOTOS



Shows overview of membrane layer during placement

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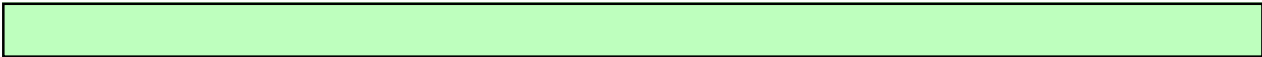


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OVERVIEW PHOTOS

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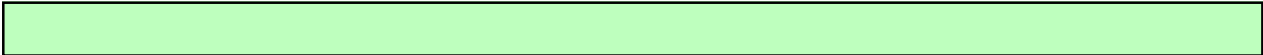
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OVERVIEW PHOTOS



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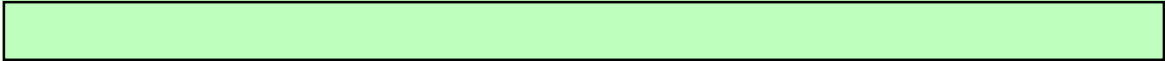


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OVERVIEW PHOTOS

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LIMITATIONS

SURVEY AREA: E1 -K x 16 -17

RESTRICTIONS AND LIMITATIONS: None found

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LIMITATIONS

SURVEY AREA: Not Applicable

RESTRICTIONS AND LIMITATIONS: Not Applicable

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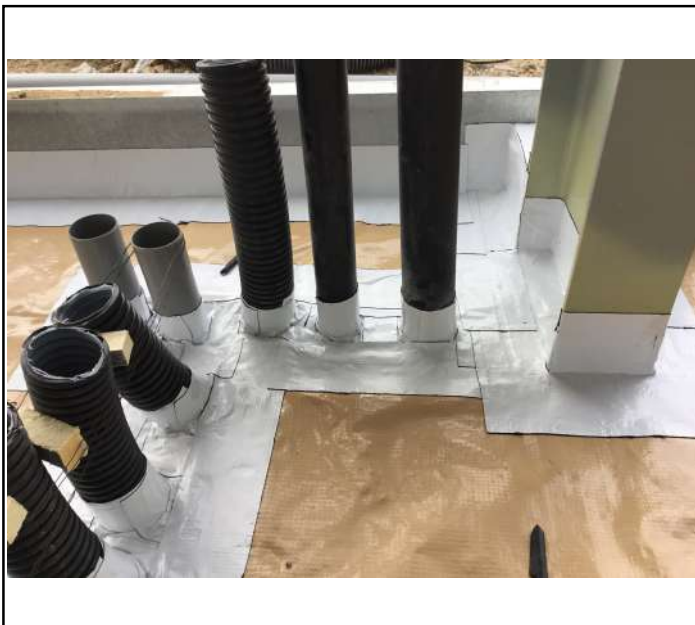
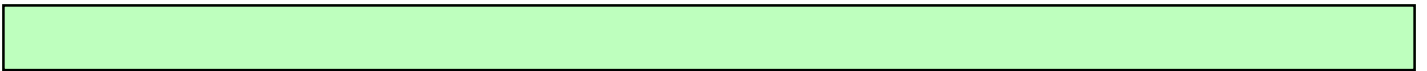
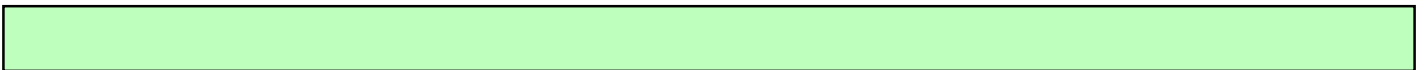
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VERIFICATION ITEM ONE

LOCATION/GRID LINE: E1 -K x 16 -17

NOTES: Pipe sealing



Both pictures show close ups of good practice pipe sealing

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VERIFICATION ITEM ONE



Very tidy and clean finished work around the pipe work

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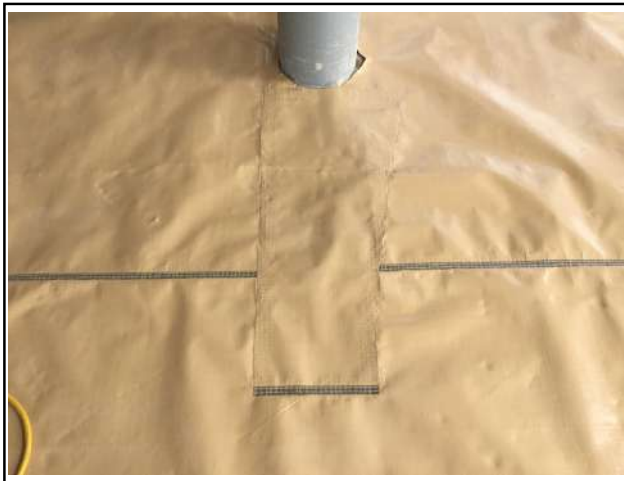
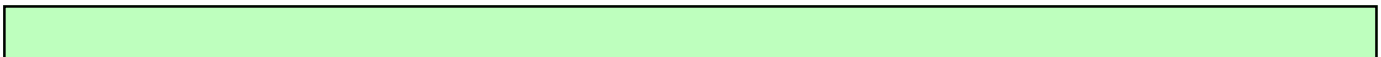
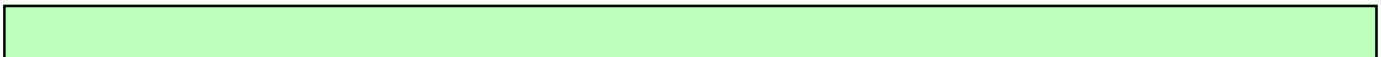
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VERIFICATION ITEM TWO

LOCATION/GRID LINE: E1 -K x 16 -17

NOTES: Welded joints



Both photos show seams that have been air tested to 50psi

Very good workmanship

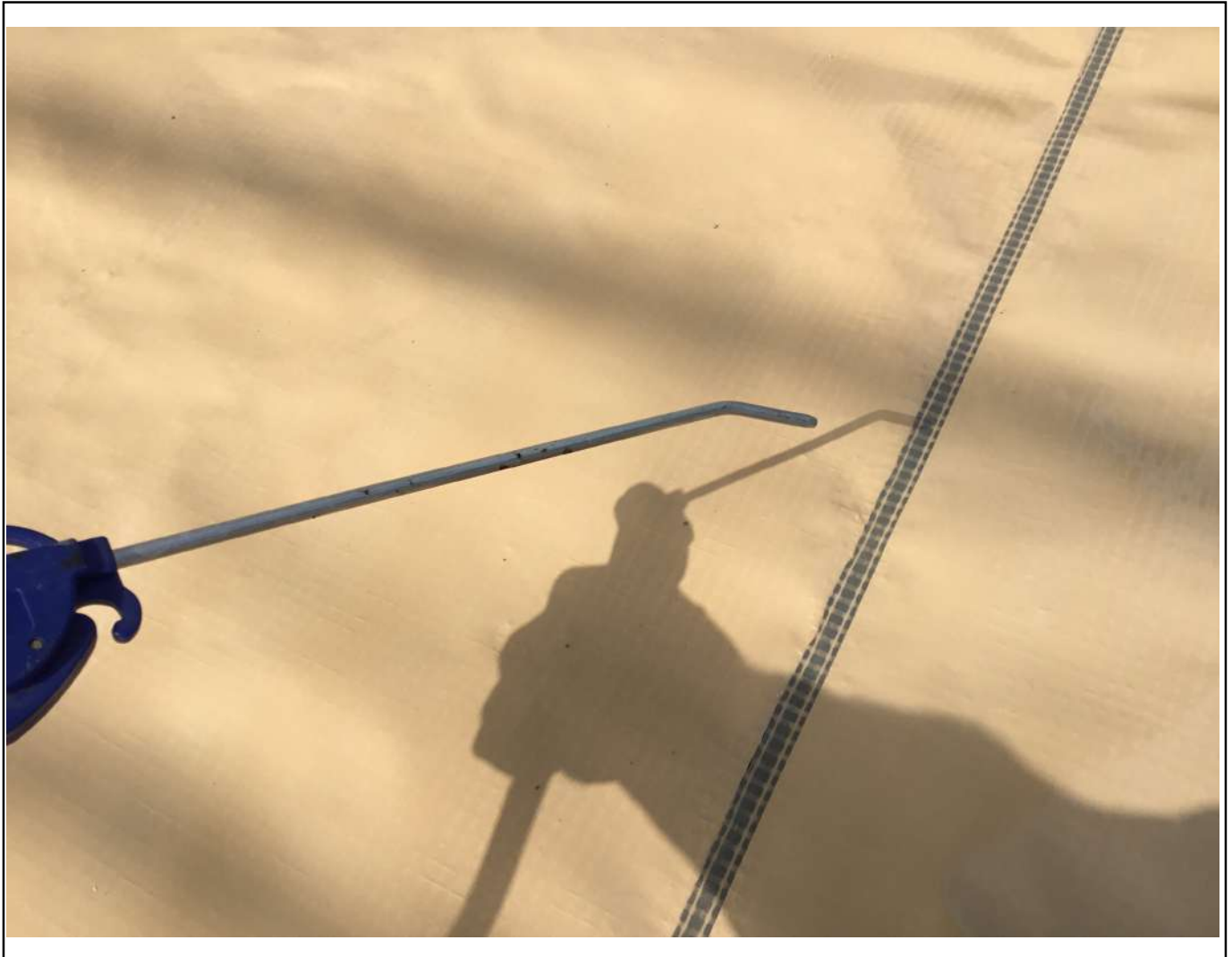
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VERIFICATION ITEM TWO



Airtest being carried out on welded joints

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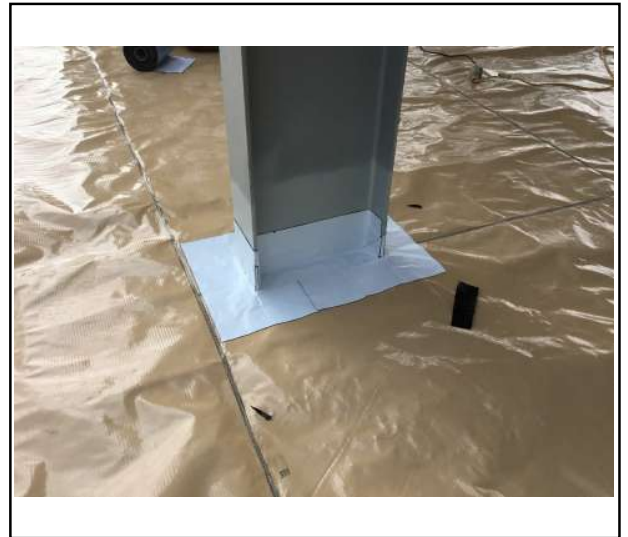
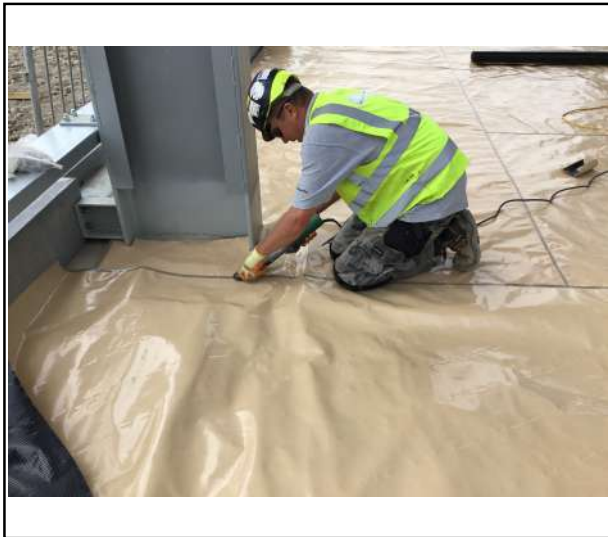
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VERIFICATION ITEM THREE

LOCATION/GRID LINE: E1 -K x 16 -17

NOTES: Upstands around steel work



Dressing being applied to steel upstands

Very neatly done

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VERIFICATION ITEM THREE



Further sealing to upstands

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REMEDIATION LOG

Date	Nr	Remediation Description	Y/N
31st May 18	001	Three areas of debris trapped between Lift Pit 3A wall and the	
		PAG Monarflex Reflex Super - potential puncture damage.	✓
	001	Damage to GRSA Membrane at Lift Pit 3B	✓

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REMEDATION LOG

Date	Nr	Remediation Description	Y/N

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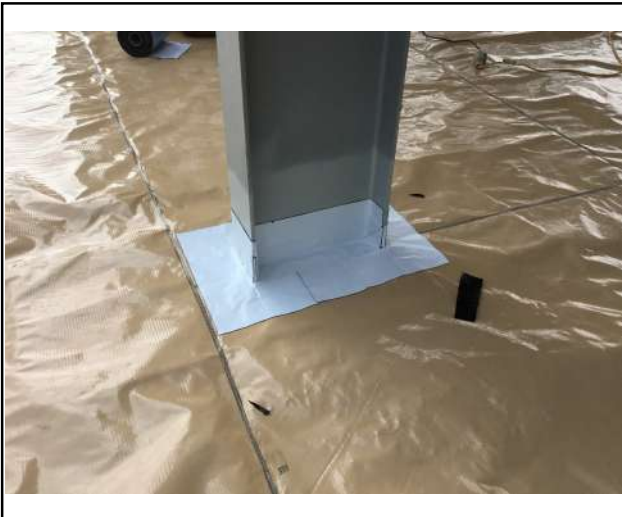
ADDITIONAL PHOTOS



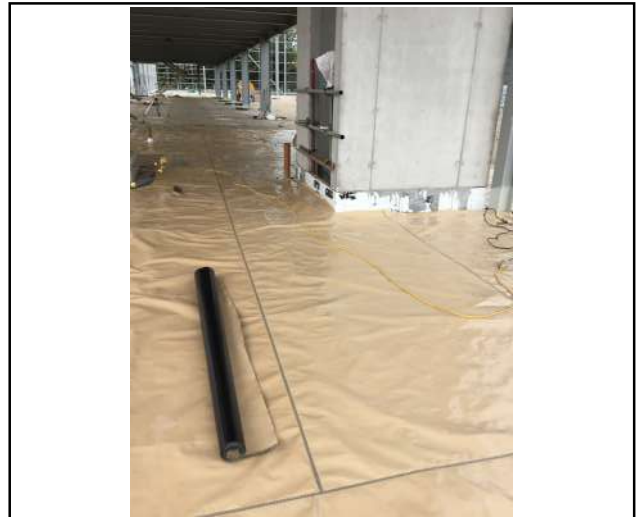
Pipe work in awkward position



Tidy workmanship



Upstands



Joint sealing

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ADDITIONAL PHOTOS

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GAS MEMBRANE TESTING

VISUAL: ☐ YES ☒ NO ☐ SMOKE TEST: ☐ YES ☐ NO ☒

COMPRESSED AIR: ☐ YES ☐ NO ☒ DILECTIC ☐ YES ☐ NO ☒

DESTRUCTIVE: ☐ YES ☐ NO ☒ OTHER: ☐ YES ☐ NO ☒

Testing checklist attached: ☐ YES ☐ NO ☒

Gridline/Plot Sign off

Gridline/Plot Sign off	Lift Pit 3A	☒
Gridline/Plot Sign off	Membrane layed on sob base	☒
Gridline/Plot Sign off	Membrane layed to sub base	☒
Gridline/Plot Sign off		☐
Gridline/Plot Sign off		☐
Gridline/Plot Sign off		☐
Gridline/Plot Sign off		☐
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Gridline/Plot Sign off		☐

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INTEGRITY TESTING RECORD

DESTRUCTIVE TEST

Click to set image

LAP TYPE

Weld:

☐

Tape:

☐

Pass

☐

Fail

☐

COMMENTS

Not Applicable

TEST NUMBER 1

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LAP TYPE

Weld:

☐

Tape:

☐

Pass

☐

Fail

☐

COMMENTS

Not Applicable

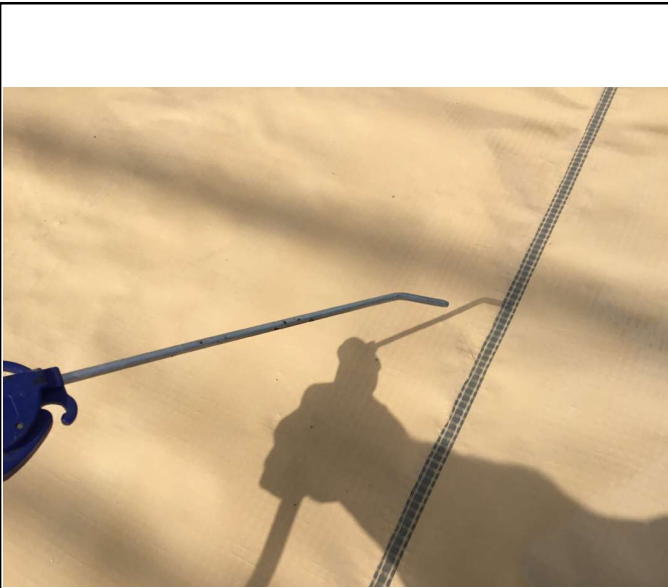
TEST NUMBER 2

Verification Plan will not be legally valid until payment is made.

AIR LANCE INTEGRITY TESTING

AIR LANCE TEST: ASTM D4437-08:2013 Inspects all seams for unbonded areas using a 4.8mm air nozzle held not more than 51mm away from the seam. 50 Psi is the minimum requirement.

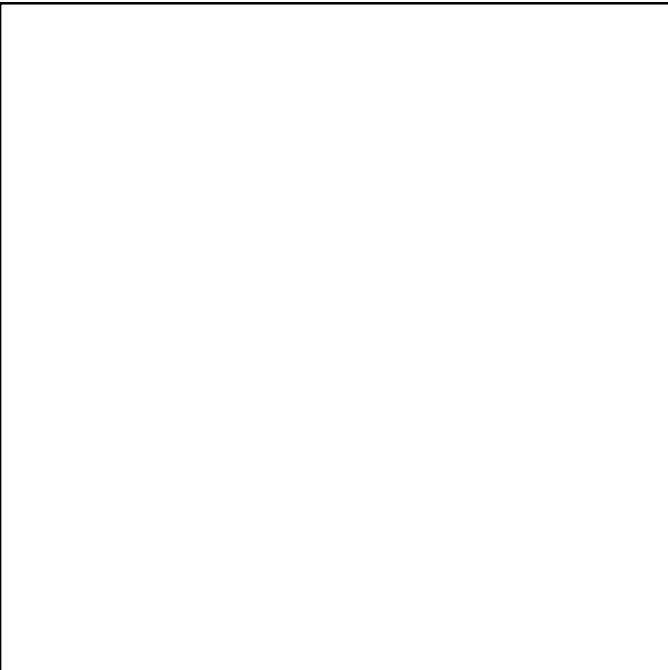
The air nozzle is directed on the upper edge seam, ripples indicate a unbonded seam. Each seam is numbered and failure marked with a F/1 F/2 classification and a description given



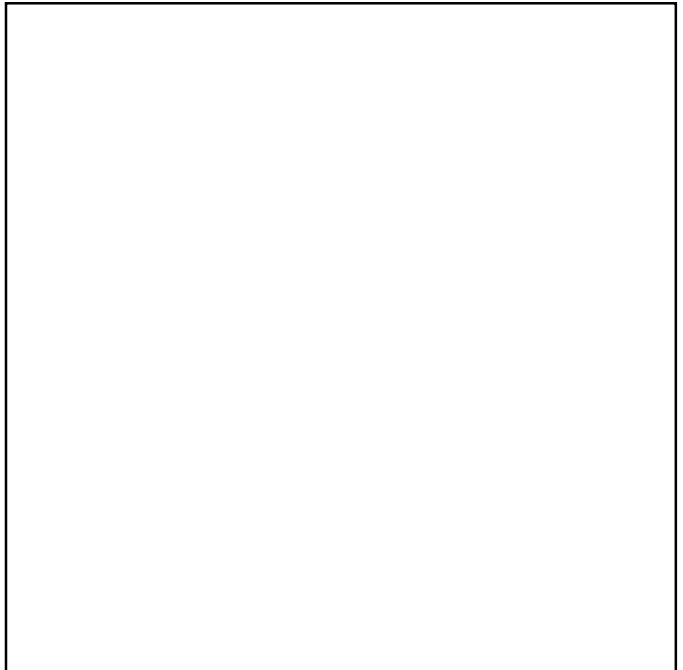
Testing seams



Tested seams

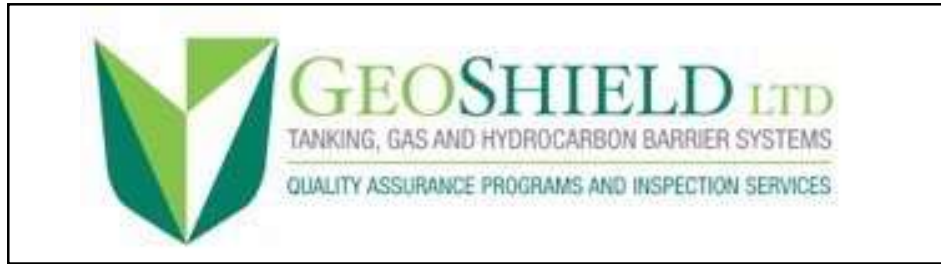


Not Applicable



Not Applicable

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INTEGRITY TESTING RECORD

AIR LANCE INTEGRITY TESTING (cont)

Detail of the Gas Membrane	PAG Monarflex Reflex Super
Detail of Tapes	Not Applicable
Joints and lap design	Welded Lap Joint

TEST NUMBER:	FAILED OR PASSED	DETAIL, COMMENT AND RECOMMENDATIONS
001	Passed	Excellent workmanship
002	Passed	Excellent workmanship

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VERIFICATION SUMMARY

All work has been completed to manufactures spec and continues to be
of a very high standard

GEOSHIELD SIGNITURE:

DATE: 13/07/2018

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