



GEOSHIELD Verification Report



PROJECT REFERENCE:

GEO101706

REPORT NUMBER:

006

REPORT DATE:

18/11/2021

PROJECT:

Coed Darcy, Swansea (Phase 2)

PROJECT ADDRESS:

Coed Darcy

Swansea

SA10 6FG

MEMBRANE SPECIFICATION:

Gas membrane to specification BS8485 2015

Installed to CIRIA 735

- Radbar Hydrocarbon Flexible membrane

- Gas Resistant Self Adhesive tape



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MEMBRANE SPECIFICATION:

DESIGN DETAILS:

9117-920-A. SITE LAYOUT

INS20-0792-100-01-C1. TYPICAL INSULSLAB DETAILS

INS20-0792-01-C1. LAYOUT FOR HOUSE TYPE AF2B-T2 - PLOTS A1-A4

INS20-0792-03-P1. LAYOUT FOR APARTMENT PLOTS A33-A42 (SHEET 1)

INS20-0792-04-P1. LAYOUT FOR APARTMENT PLOTS A33-A42 (SHEET 2)

INS20-0792-15-P1. LAYOUT FOR HOUSE TYPE AF2B-T2 PLOTS A25-A28

BP Area 1 Remediation validation report 18th January 2010 issue No1 44382729/BF



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VERIFICATION OFFICER: John Cornish

VERIFICATION COMPANY: GeoShield Limited

Icon Business Park, 4100 Park Approach

Thorpe Park, LEEDS

West Yorkshire

LS15 8GB

CONTACT NUMBER: 07493769477

EMAIL ADDRESS: Jcornish@Geoshield.co.uk

ORDER NUMBER:

PER VISIT: YES:



NO:



PROJECT: YES:



NO:





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CLIENT DETAILS

CLIENT CONTACT:	Andrew Golding
CONTACTS ROLE:	Contracts Manager
MOBILE PHONE:	07789628236
EMAIL ADDRESS:	Andrew.goldring@jehu.co.uk

CLIENT CONTACT:	
CONTACTS ROLE:	
MOBILE PHONE:	
EMAIL ADDRESS	
NOTES:	
NOTES:	
NOTES:	



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APPLICATION TEAM LEADERS

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES:

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AREA SURVEYED: Plots 14, 15, and 16.

Apartment Block - Lover level.

SITE CONDITIONS:

WEATHER: Light rain

TEMPERATURE: 13c

MEMBRANE TEMPERATURE: N/A

RELATIVE HUMIDITY: 82%

TIME: 12:00:14:00

REPORT NUMBER: 006

DATE: 18/11/2021

ACCOMPANIED



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VERIFICATION LAYOUT



Plots 14,15 and 16 highlighted in green above and the area highlighted in red shows

the lower level section of the apartment Block



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OVERVIEW PHOTOGRAPHS



The photograph above shows an overview of the lower level of the apartment

block verified during this visit.



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VERIFICATION ITEM ONE

LOCATION/GRID LINE: Apartment Block - Lover level.

NOTES: Installation of Radbar Hydrocarbon Flexible membrane.

The first photograph below shows an overview of a welded lap of the Radbar

Hydrocarbon Flexible membrane installed to the apartment Block. The installers have

achieved a strong seal using a hot air leister and roller.



The second photograph above shows the installers have achieved a sufficient lap.

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VERIFICATION ITEM ONE



The photograph above shows a pick and probe test carried out to a welded lap of the Radbar Hydrocarbon Flexible membrane. A strong seal has been achieved.

No faults or defects were identified.

Verified in accordance with CIRIA 735.



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VERIFICATION ITEM TWO

LOCATION/GRID LINE: Apartment Block - Lover level.

NOTES: Sealed pipe penetrations and corners.

The first photograph below shows examples of sealed pipe penetrations. The installers have first cut the Radbar Hydrocarbon Flexible membrane tight around the pipes to minimise gaps.



They have then sealed all pipe penetrations using gas resistant self adhesive membrane. The second photograph above shows a sealed corner detail which has also been sealed using gas resistant self adhesive membrane. A hot air leister or gas blow torch has been used to aid in the adherence of the self adhesive.

Installed in accordance with BS 8485:2019.

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VERIFICATION ITEM TWO



The photograph above shows a pick and probe test carried out to a sealed pipe penetration. A strong seal has been achieved and no faults or defects were identified.

Verified in accordance with CIRIA 735.

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BGA
British Geomembrane Association



VERIFICATION ITEM THREE



The area nears the retaining wall which has been annotated above was not sealed during this visit. This area will have to be installed and verified during a future visit.



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ADDITIONAL PHOTOGRAPHS



Additional sealed corners using gas
resistant self adhesive membrane.



Additional pick and probe test carried
out to welded lap.



Pick and probe test carried out to
sealed corner detail.



Pick and probe test carried out to
patch repair.



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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	Plots 1-6	☒
Gridline/Plot Sign off	Plot 7	☒
Gridline/Plot Sign off	Plot 21	☒
Gridline/Plot Sign off	Plot 22	☒
Gridline/Plot Sign off	Plots 8 & 9	☒
Gridline/Plot Sign off	Plots 17-19	☒
Gridline/Plot Sign off	Plots 10-11	☒
Gridline/Plot Sign off	Plots 14, 15, and 16.	☒
Gridline/Plot Sign off	Apartment Block - Lover level.	☐
Gridline/Plot Sign off		☐
Gridline/Plot Sign off		☐
Gridline/Plot Sign off		☐



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VERIFICATION SUMMARY

This was the 6th visit to site where verification of the installation of the Radbar Hydrocarbon Flexible membrane to three plots and the lowered level of the apartment Block was required. All laps of the Radbar Hydrocarbon Flexible membrane have been welded using a hot air leister and roller to achieve a strong and consistent weld. All pipe penetrations and corners have been sealed using gas resistant self adhesive membrane. A gas blow torch has been used to aid in the adherence of the self adhesive membrane. Any patch repairs had been carried out prior to this site visit. Area near retaining wall needs to be sealed and verified during a future visit. Installed in accordance with BS 8485:2019.

Verified in accordance with CIRIA 735.

GEOSHIELD SIGNATURE:

DATE: 18/11/2021