



GeoShield Verification Report



PROJECT REFERENCE: GEO102875

PROJECT: Neath Port Talbot Hospital (Orthopaedic Unit).

PROJECT ADDRESS: Neath Port Talbot Hospital,

Baglan Way, Port Talbot,

SA12 7BX

SPECIFICATION: Verified in accordance CIRIA 735.

Design in accordance with BS8485 2015 + 2019 for Methane and Carbon Dioxide.

Substrate prepared in-accordance with manufactures instructions.

FC6 Cuspate Geocomposite

JUTA GP1 Gas Membrane

JUTA GP1 SAM

Telescopic Vents



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NAME OF SURVEYOR:

John Cornish

VERIFICATION COMPANY:

GeoShield Limited

Icon Business Centre

4100 Park Approach

Thorpe Park

Leeds, LS15 8GB

CONTACT NUMBER:

07493769477

EMAIL ADDRESS:

Jcornish@geoshield.co.uk

ORDER NUMBER:

To be confirmed

PER VISIT:

YES:

☐

NO:

☐

PROJECT:

YES:

☐

NO:

☐



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MEMBRANE SPECIFICATION:

DESIGN DETAILS:

Geotechnical and Geoenvironmental Report

>Front Page

>Site Location

>Radon (No Radon)

>Characteristic Site Classification (CS2)

>Borehole Locations

Site Built Ground Floor Areas Layouts, Drawing No: 2325-PHG-V1-00-DR-S...

...-0404 Rev C03.

Foundations Sections and Details, Drawing No: 2325-PHG-V1-BG-DR...

...-S-0403 Rev C03.

Foundation Layout, Drawing No: 2325-PHG-V1-BG- DR-S-0402 Rev C05.

Piling Layout, Drawing No: 2325-PHG-V1-BG- DR-S-0401 Rev C04.

Site Built Ground Floor Areas Sections and Details, Drawing No: 2325-PHG...

...V1-BG- DR-S-0405 Rev C03.



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MEMBRANE SPECIFICATION:

DESIGN DETAILS:

Module Gable - Base, Midband and Verge, Drawing No: H2201-MCO-01-...

...XX-DR-A-060003 Rev C01.

Non Standard Base and Midband, Drawing No: H2201-MCO-01-XX-DR...

...-A-060004 Rev C01.

Pressure Relief System Layout.

Perimeter Section.

FC6 Cuspate Geocomposite - Technical Data Sheet.

JUTA GP1 Gas Barrier - Technical Data Sheet.

JUTA GP SAM - Technical Data Sheet.



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CLIENT DETAILS

CLIENT CONTACT:	Jon Taylor
CONTACTS ROLE:	
MOBILE PHONE:	01269591103
EMAIL ADDRESS:	JonTaylor@trjltd.co.uk

CLIENT CONTACT:	Josh
CONTACTS ROLE:	Site Contact
MOBILE PHONE:	
EMAIL ADDRESS	
NOTES:	



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APPLICATOR'S DETAILS

APPLICATOR NAME: Rich

COMPANY: MB Membranes

APPLICATOR TEL: 07715 381 694

APPLICATOR EMAIL:

APPLICATOR NAME:

COMPANY:

APPLICATOR TEL:

APPLICATOR EMAIL:

NOTES: At least one member of each installation team possesses a Level 2 NVQ
in gas membrane installation.



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AREA SURVEYED: Modules dropped into place.

SITE CONDITIONS:

WEATHER: Sunny/cold

TEMPERATURE: 4c

MEMBRANE TEMPERATURE: N/a

RELATIVE HUMIDITY: N/a

TIME: 07:00-12:00

REPORT NUMBER: 003

DATE: 07/12/2022

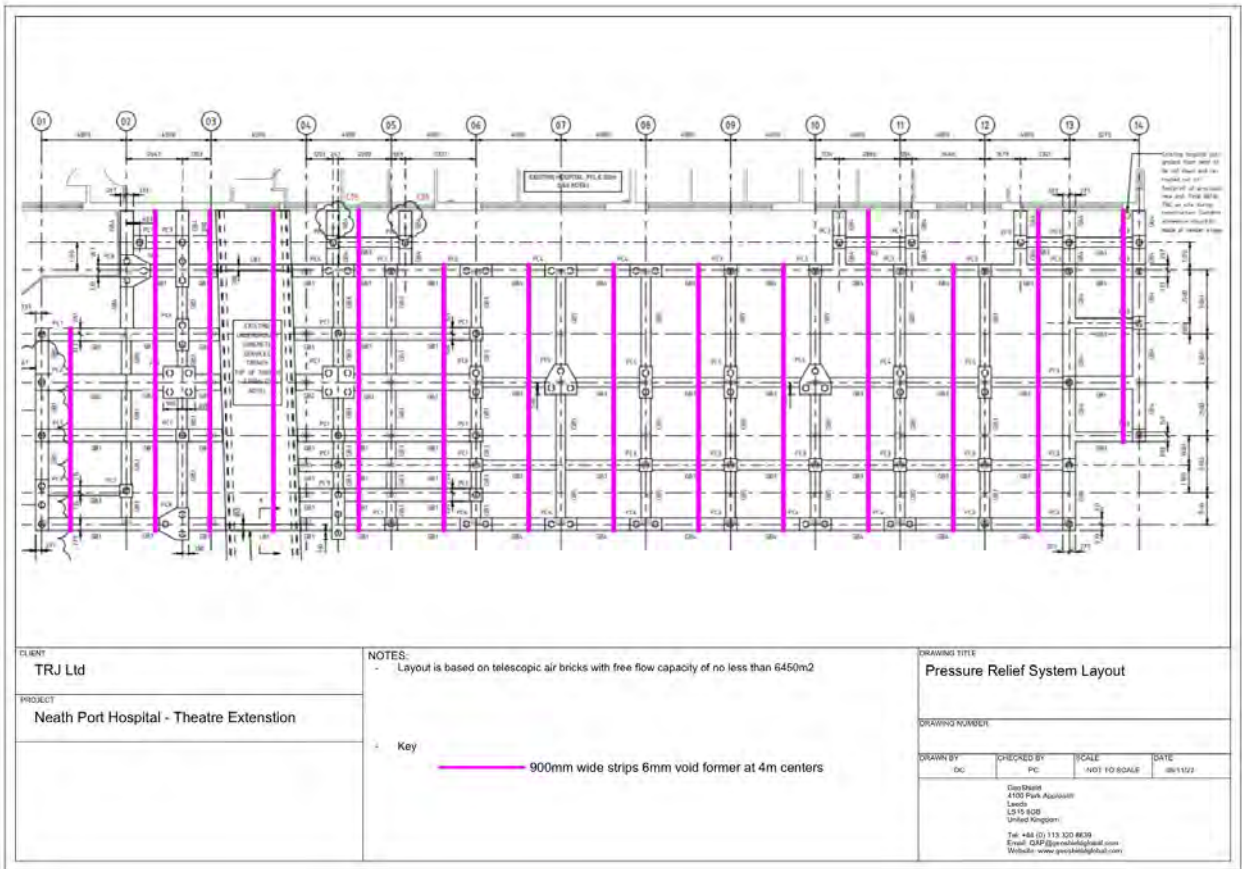
ACCOMPANIED Rich - MB Membranes



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VERIFICATION LAYOUT



The layout above shows the site layout where the ground floor modules have continued to being installed. 75% of the ground floor modules installed.

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OVERVIEW PHOTOGRAPHS



The photograph above shows one of the modules being installed during this

visit to site.

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OVERVIEW PHOTOGRAPHS



The photograph above shows the module being carefully dropped into place.

Gas membrane was not directly harmed when dropping the modules.



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VERIFICATION ITEM ONE

LOCATION/GRID LINE: Gridlines: 01-02/A

NOTES: Corner and lap sealed.

The first photograph below shows an example of a sealed corner detail carried out during this visit. This was not previously sealed as the module location was not known.

Once it was clear how close the module was going to be dropped into place the corner...



... was sealed using JUTA GP1 SAM. The second photograph above shows a pick and probe test. Verified in accordance with CIRIA 735. Strong seal achieved.

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VERIFICATION ITEM ONE



The lap shown above is adjacent to the previously shown corner in this report. It needed to be sealed using JUTA GP1 SAM. A gas blow torch has been used to aid in the adherence of the GP1 SAM.



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VERIFICATION ITEM TWO

LOCATION/GRID LINE: Gridline: 03/A.

NOTES: Patch repair.

The first photograph below shows the one hole in the JUTA GP1 Gas Barrier which was identified during this visit. The area around the hole in the gas barrier has first been cleaned of debris and dust to ensure a strong seal can be achieved.



Next a 150mm square patch of the JUTA GP1 SAM has been adhered over the hole in the gas barrier. A gas blow torch and roller has been used to ensure a strong and consistent seal has been achieved. The second photograph above shows a pick and probe test carried out to the patch repair.

Verified in accordance with CIRIA 735.



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VERIFICATION ITEM THREE

LOCATION/GRID LINE: Modules dropped into place.

NOTES: Lifted in by crane (ground floor modules)

The first photograph below shows an example of a module being dropped into place onto the JUTA GP1 Gas Barrier which was previously installed to the ground floor.

The crane and contractors have acted cautiously when dropping all the ground floor...



...modules into place and no damage has been caused when carrying out this process. As previously shown in this report one patch repair was carried out during this visit, however, this was to repair damage caused by a screw not the modules being dropped into place.



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ADDITIONAL PHOTOGRAPHS



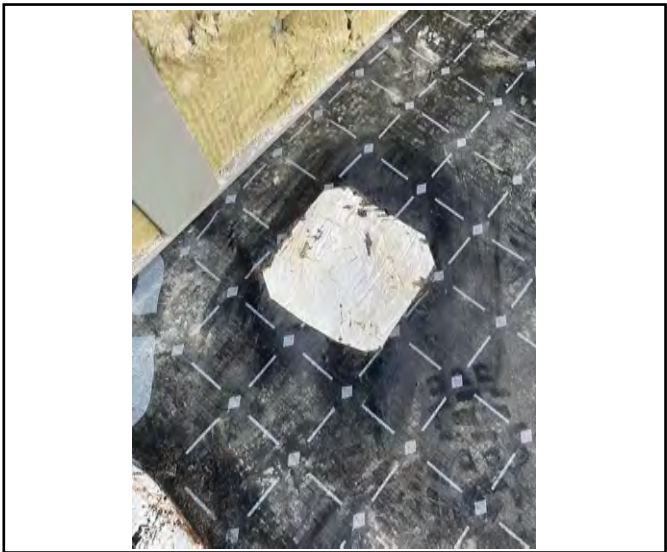
Overview of gas barrier before
module was dropped into place.



Module dropped into place, no damage
caused.



Module dropped into place.



Additional photograph of patch
repair.



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REMEDIATION LOG

Date	Nr	Remediation Description	Y/N
05/12/2022	001	1. Two patch repairs carried out to miss welds identified when	✓
		carrying out air lance testing.	✓
06/12/2022	002	1. One lap was,not welded past the edge of the modules being	✓
		dropped into place, this was rectified using a patch or GP1 SAM	✓
		as shown in verification item 1 of Report 002.	✓
		2. Additional ground floor modules to be dropped into place.	
07/12/2022	003	1. One corner and lap needed to be sealed as the module being	✓
		dropped into place was close to these details and would've been	✓
		much harder to seal and a sufficient lap could not have been	✓
		achieved.	✓
		2. One patch repair was carried out using JUTA GP1 SAM.	✓
		3. Some ground floor modules are still to be dropped into place.	



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VERIFICATION SUMMARY

This was the 3rd visit to site where overseeing of the ground floor modules being installed was required. One corner and lap was sealed using JUTA GP1 SAM. This was required as the module being installed would've made it much harder to achieve a sufficient seal. One patch repair was also carried out using GP1 SAM. A gas blow torch has been used to aid in the adherence of the JUTA GP1 SAM. All ground floor modules installed during this visit have been dropped into place carefully so no damage was caused to the gas barrier. Further verification of bays are required when the gas barrier has been installed. Installed in accordance with BS 8485:2019. Verified in accordance with CIRIA 735.

GEOSHIELD SIGNATURE:

DATE: 07/12/2022