

P /2015 /0945

WREXHAM COUNTY
BOROUGH COUNCIL

10 DEC 2015

PLANNING DEPARTMENT

**Gas Membrane Installation
Validation Report
Delph Road
Solar Panel Farm
Acrefair**

1. INTRODUCTION

1.1 Purpose

PageoContracting are installing a gas protection membrane to the aforementioned site. MEC Environmental Ltd (MEC) has been appointed by PageoContracting to carry out independent validation of the installation of the membrane on the site.

1.2 Limitations

(MEC) has prepared this report in accordance with the instructions of PageoContracting ("the Client") under the terms of its appointment for the gas membrane validation/inspections and report.

This report is limited to the verification that the gas membrane measures are correctly installed. MEC Environmental Ltd have not carried out any design work in respect of the gas protection measures prescribed for this site and therefore no professional liability is extended in respect of the gas protection design.

This report has been prepared in accordance with the best available practise and the relevant guidance documents listed below of which the author of the report was a contributor and member of the steering committees:

Chartered Institute of Environmental Health (2008). "The local authority guide to ground gas".

Mallett H, Wilson S, Corban M (2014) "Good practice on the testing and verification of protection systems for buildings against hazardous ground gases". CIRIA Report C735

This report and its contents should not be used for any purpose other than that for which it was prepared and provided. Should the Client require to pass copies of the report to other parties for information, the whole of the report should be so copied, but no professional liability or warranty shall be extended to other parties by MEC in this connection without the explicit written agreement thereto by MEC.

1.3 Site Inspection Sheets (Overleaf)

Verification of gas protection measures

Site name: Delph Road, Solar Panel Farm , Acrefair		Units/ plots checked: 100% Sub station 1			
Installers Name: PAGeoContracting		Type of development: Solar panel farm			
Date: 01/12/2015		Gas protection type: Membrane only			
Inspection by: Ashley Ready		Weather at time of inspection: 13° C Cloudy			
Item no.	Item	Comments			
1	Underside of membrane	Geotextile protective fleece			
2	Sub-floor void	Not applicable			
3	Materials	PAG C02 gas membrane Self adhesive gas membrane Easi-pour liquid radon sealant			
4	Membrane condition	The membrane was installed to a good standard with no remedial work required			
5	Type of Joint	Tape Joint ☐	Auto Weld ☐	Hand Weld ☒	Extrusion Weld ☐
6	Jointing Testing	☒ Air Lance (ASTM D4437)		☐ Probe Test (ASTM D4437)	
7	Laps, welds and joints seals	Did all welds, laps and seals pass testing			☒ Yes ☐ No
		All welds were completed to a good standard with no remedial action required at the time of our inspection.			
8	Pipe Penetrations	All pipe penetrations were sealed using easi-pour liquid radon sealant and corners were sealed with self adhesive gas membrane. No remedial action required at the time of our inspection.			
9	External wall airbricks	Not Applicable			

Photographs

No.	Description	No.	Description
1	Liquid applied Seal to Pipes	7	Corner Detail Sealing
2	Liquid applied Seal to Pipes	8	Plot Overview
3	Liquid applied Seal to Pipes		
4	Liquid applied Seal to Pipes		
5	Geotextile Protection Fleece		
6	Corner Detail Sealing		



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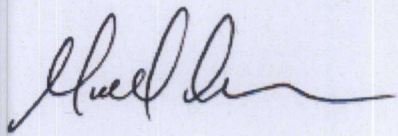


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The installation has **PASSED** inspection and a further inspection is not required to this site, the installation was carried out by NVQ Level 2 "Gas membrane Installations" qualified staff. The frequency and number of independent visits and inspection regime employed is in line with Annex 1 of CIRIA C735.

Signed: 
Director
MEC Environmental Ltd

Date: 04/12/15