

APPENDIX I

GEOTEXTILE MEMBRANE SPECIFICATION

Standard Geotextiles

Issue 7—May 2019

DESCRIPTION:

Nonwoven geotextile manufactured from UV stabilised, high tenacity, virgin polypropylene fibres that have been both mechanically and thermally bonded to provide a highly permeable yet durable separation and filtration layer.

APPLICATIONS:

With 50 years of unrivalled expertise and experience Terram standard geotextiles are the original nonwoven geotextiles for separation and filtration applications.

Typical uses include the prevention of intermixing of sub-base and subgrade layers, drainage and bedding materials. Terram filters/separators are used extensively in the construction of:

- Paved and unpaved roads
- Railways
- Car parks and hardstandings
- Cycleways and footpaths
- Sustainable Drainage Systems (SuDS)

FEATURES & BENEFITS:

- Manufactured from inert high tenacity virgin polypropylene fibres giving excellent long term durability in all soil types.
- High static and dynamic puncture resistance ensures a low risk of damage during construction.
- Random orientated web with isotropic properties provide the same strength, permeability and filtration in all directions.
- High elongation at break maintains separation and filtration function under load particularly in soft and variable ground conditions.

**APPROVAL:**

Network Rail PADS certificate numbers; T1000 057/100703, T2000 57/100705 and T3000 57/100706 (4.5m wide x 100m long rolls).



			Mean Value									
MECHANICAL PROPERTIES	Test Method	Unit	T700	T900	T1000	T1000 Orange	T1300	T1500	T2000	T3000	T4000	T4500
Tensile Strength	EN ISO 10319	kN/m	6	7.5	8	8	10	12.5	14.5	18	22	30
Tensile Elongation	EN ISO 10319	%	60	60	60	60	60	60	60	60	60	60
CBR Puncture Resistance	EN ISO 12236	N	1050	1350	1500	1500	2000	2250	2750	3250	4300	5350
Cone Drop	EN ISO 13433	mm	42	40	38	38	34	32	26	24	22	14
HYDRAULIC PROPERTIES												
Pore Size - Mean AOS	EN ISO 12956	µm	95	95	90	90	65	65	65	60	60	60
Permeability—(H50)	EN ISO 11058	l/m ² s	100	95	90	90	65	65	55	50	30	30
DURABILITY PROPERTIES												
Weathering (UV Exposure)	EN 12224	Days	30	30	30	30	30	30	30	30	30	30
Combined ageing (Oxidation, temperature & moisture)	EN ISO 13438	Service Life (Years)	50	50	100	100	100	100	100	100	100	100
PHYSICAL PROPERTIES												
Thickness @ 2kPa (Nominal)	EN ISO 9863-1	mm	0.9	1.0	1.1	1.1	1.4	1.6	1.7	1.8	2.0	2.4
MATERIAL DIMENSIONS												
Standard Roll Length		m	150	150	100	100	100	100	100	100	50	50
Standard Roll Width		m	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Maximum Roll Width		m	6	6	6	6	6	6	6	6	6	6
Gross Roll Weight (Nominal)		kg	65	85	60	60	75	85	100	120	80	95

PACKAGING & IDENTIFICATION

Terram Standard Geotextiles are supplied on cardboard cores and wrapped in Polyethylene sheeting with identification labels in accordance with ISO 10320.

STORAGE

The rolls of geotextile shall be stored on stable/ level ground and stacked not more than five rolls high and no other materials shall be stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV. All materials should be stored in accordance with good health and safety practice and in accordance with local laws. For additional information please refer to Terram Geotextiles MSDS.

QUALITY

Terram Standard Geotextiles are supplied having met internal quality requirements in accordance with our Quality Management system which is certified to BS EN ISO 9001:2015.

NOTES

Reported values are arithmetic mean values unless otherwise stated. For further details on physical parameters please refer to the individual Declaration of Performance certificates available for download from www.terram.com

Reported values related to durability testing are generally based on the lowest grade product within a family.

A Nominal value indicates that the value is not part of the performance specification and is provided for guidance only.

Gross roll weight is based on 4.5m wide rolls at standard length; information provided is for lifting guidance only and does not for part of quality control.

ADDITIONAL INFORMATION

Refer to the Terram Jointing Methods (downloadable from www.terram.com) for when simple overlaps are required for subsequent and adjacent roll lengths. However, pegging, sewing, stapling or gluing can also be used depending upon the application, the sub-grade conditions, the loading, the convenience and the cost.

These figures relate to standard product weights and roll sizes. Other weights, sizes and colours may be available on request. For further information please contact Terram Technical Support.

As part of its continued improvement process Terram® Ltd reserve the right to change the properties listed on this data sheet without prior notice.

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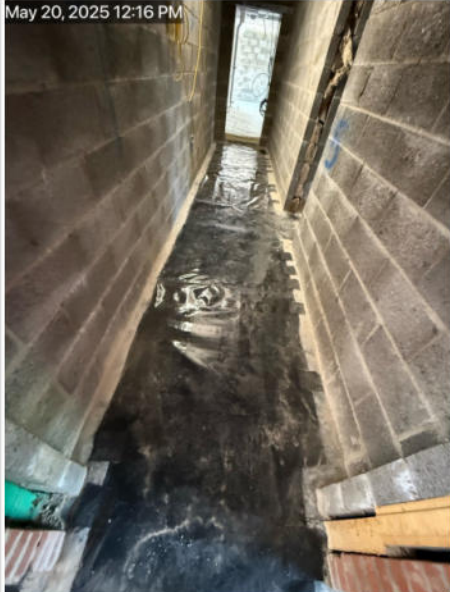
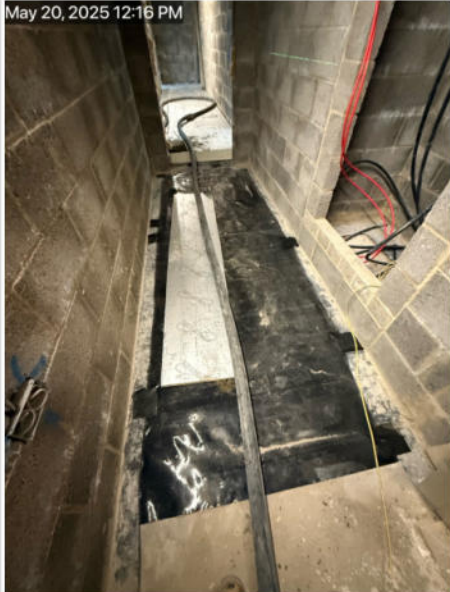
APPENDIX J

GAS MEMBRANE VERIFICATION

CERTIFICATE OF HANDOVER**Section 1**

PROJECT	OakFord homes, arundel
CUSTOMER	OakFord homes
UK MEMBRANES OPERATIVES	BRADLEY REYNOLDS, DARREN STOREY
START DATE	20/05/2025
ARRIVAL TIME	7.30 am
AREA/PLOT READY	Yes
IF NOT READY-REASON	
INSTALLATION METHOD	ALL MEMBRANES AND SELF ADHESIVES HEAT WELDED USING LEISTER TRIAC ST HEAT GUN OR LEISTER TWINNY S WELDING MACHINE.
ABORTED VISIT	N/A
REASON FOR ABORTED VISIT	
SCOPE OF WORKS	INFILL
AREA/PLOT COMPLETED	Lined and patched and sealed block a and communal area as instructed where possible
WAITING TIME	
PROBE TEST	N/A
PHOTOS TAKEN	Yes
VALIDATION	Yes
VALIDATION COMPANY	MEC ENVIROMENTAL
VALIDATION DATE (DO NOT COVER UNTIL PASSED)	
MEMBRANE MATERIAL USED	JUTA TITANFLEX
ROLLS USED	1
SELF ADHESIVE USED	JUTA GP1SAM 300MM
ROLLS USED	1
ADDITIONAL MATERIAL USED	
QUANTITY USED	
ADDITIONAL SELF ADHESIVE USED	
QUANTITY USED	
ADDITIONAL MATERIAL USED	
QUANTITY USED	
ADDITIONAL SELF ADHESIVE USED	
QUANTITY USED	

CERTIFICATE OF HANDOVER

Multi Photo	 May 20, 2025 12:16 PM	 May 20, 2025 12:16 PM
	 May 20, 2025 12:16 PM	 May 20, 2025 12:16 PM
Video		
.	WE CONFIRM THAT WE HAVE INSPECTED THE WORKS CARRIED OUT BY UK MEMBRANES LTD AND ARE SATISFIED THAT THE CONITION AND SCOPE OF WORKS ORDERED HAS BEEN EXECUTED IN ACCORDANCE WITHOUT SUB-CONTRACT ORDER AND SPECIFICATION	
PRINT NAME (CUSTOMER)	Brian Birmingham	
Signature (CUSTOMER)		

CERTIFICATE OF HANDOVER

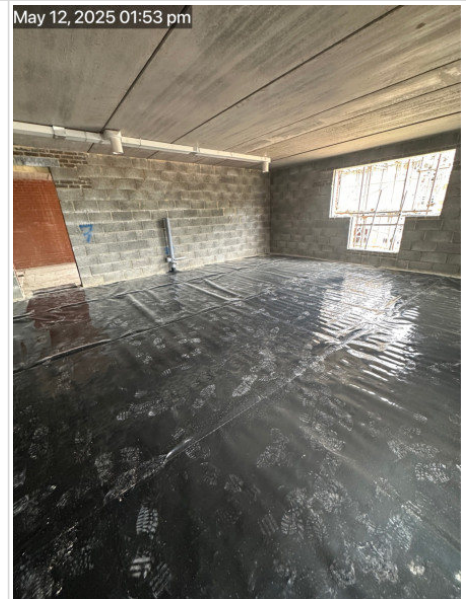
	20/05/2025 12:24
CUSTOMER EMAIL	
UK MEMBRANES OPERATIVE	BRADLEY REYNOLDS
UK MEMBRANES SIGNATURE	
COMPANY REGISTRATION NO. 7782780	
REGISTERED OFFIC: 40A MARKET SQUARE, ST. NEOTS, CAMBRIDGESHIRE, PE19 2AF	
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CERTIFICATE OF HANDOVER**Section 1**

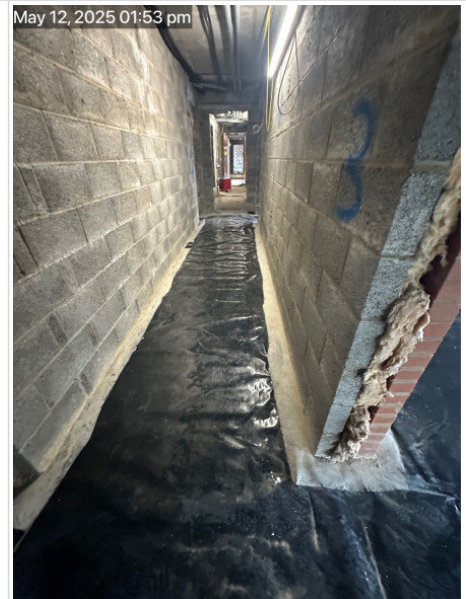
PROJECT	Ford road, arundel
CUSTOMER	Oakford homes
UK MEMBRANES OPERATIVES	TRISTAN ADAMS, TATE BUTTERWORTH
START DATE	12/05/2025
ARRIVAL TIME	8.00 am
AREA/PLOT READY	Yes
IF NOT READY-REASON	
INSTALLATION METHOD	ALL MEMBRANES AND SELF ADHESIVES HEAT WELDED USING LEISTER TRIAC ST HEAT GUN OR LEISTER TWINNY S WELDING MACHINE.
ABORTED VISIT	N/A
REASON FOR ABORTED VISIT	
SCOPE OF WORKS	INFILL
AREA/PLOT COMPLETED	Infills complete in flats 3,4,5,6,7 & half of a hallway
WAITING TIME	
PROBE TEST	N/A
PHOTOS TAKEN	Yes
VALIDATION	Yes
VALIDATION COMPANY	MEC ENVIROMENTAL
VALIDATION DATE (DO NOT COVER UNTIL PASSED)	
MEMBRANE MATERIAL USED	JUTA TITANFLEX
ROLLS USED	4
SELF ADHESIVE USED	JUTA GP1SAM 300MM
ROLLS USED	0.5
ADDITIONAL MATERIAL USED	
QUANTITY USED	
ADDITIONAL SELF ADHESIVE USED	
QUANTITY USED	
ADDITIONAL MATERIAL USED	
QUANTITY USED	
ADDITIONAL SELF ADHESIVE USED	
QUANTITY USED	

CERTIFICATE OF HANDOVER

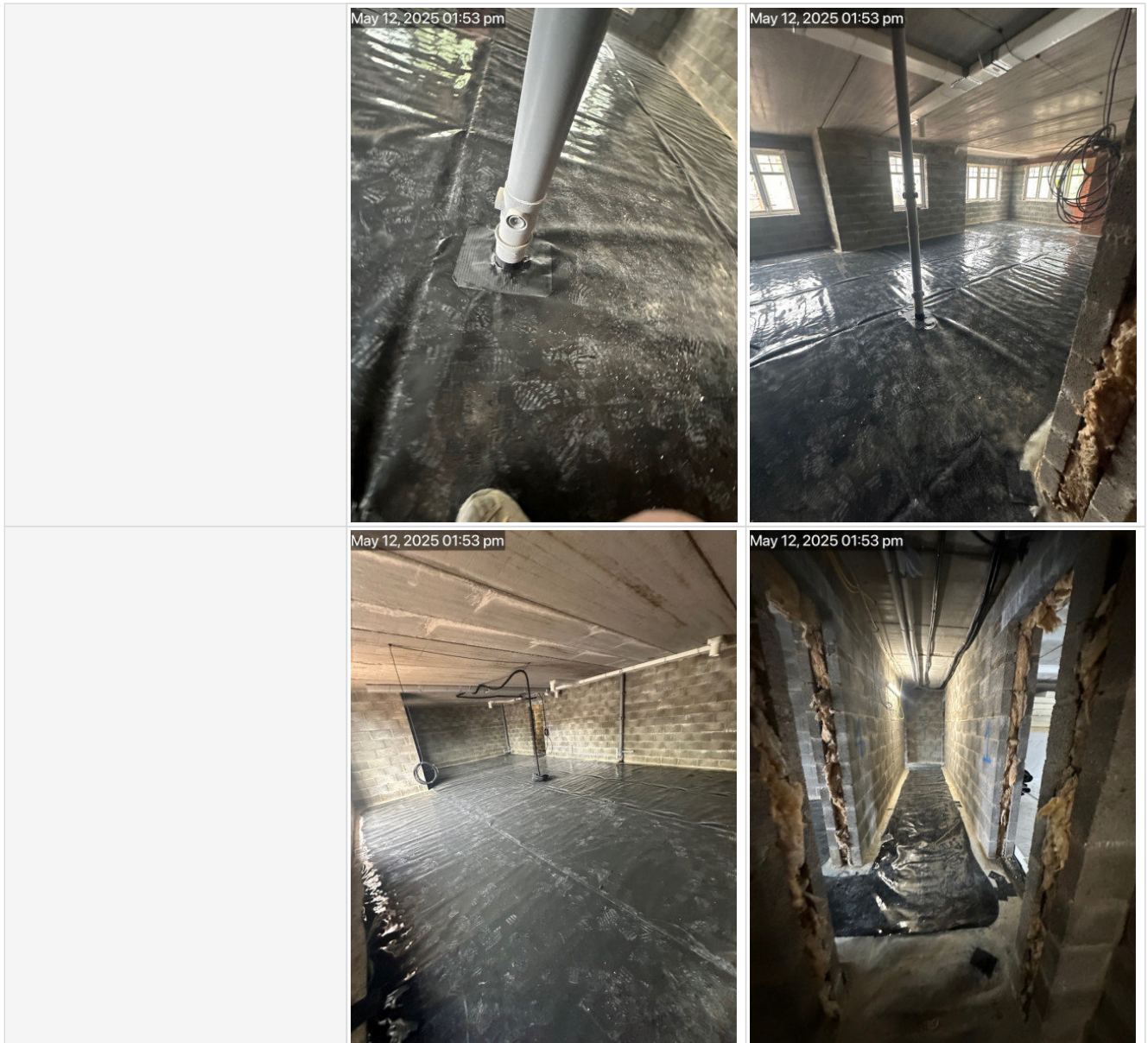
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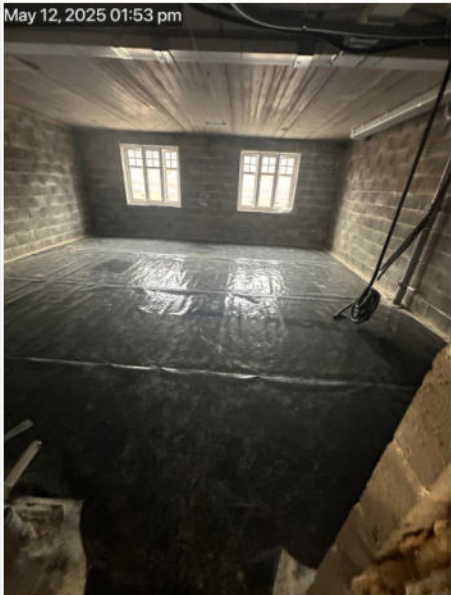
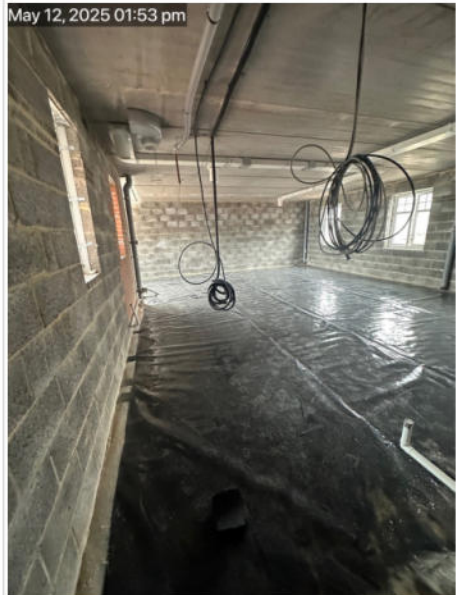
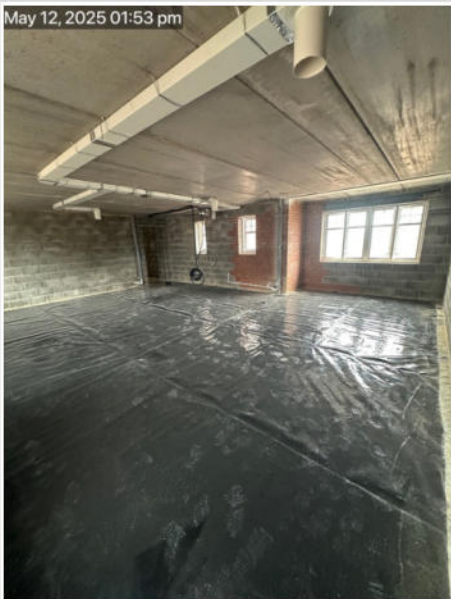
CERTIFICATE OF HANDOVER



CERTIFICATE OF HANDOVER



CERTIFICATE OF HANDOVER

	 May 12, 2025 01:53 pm	 May 12, 2025 01:53 pm
	 May 12, 2025 01:53 pm	
Video		
.	WE CONFIRM THAT WE HAVE INSPECTED THE WORKS CARRIED OUT BY UK MEMBRANES LTD AND ARE SATISFIED THAT THE CONITION AND SCOPE OF WORKS ORDERED HAS BEEN EXECUTED IN ACCORDANCE WITHOUT SUB-CONTRACT ORDER AND SPECIFICATION	
PRINT NAME (CUSTOMER)	Brian Birmingham	
Signature (CUSTOMER)		

CERTIFICATE OF HANDOVER

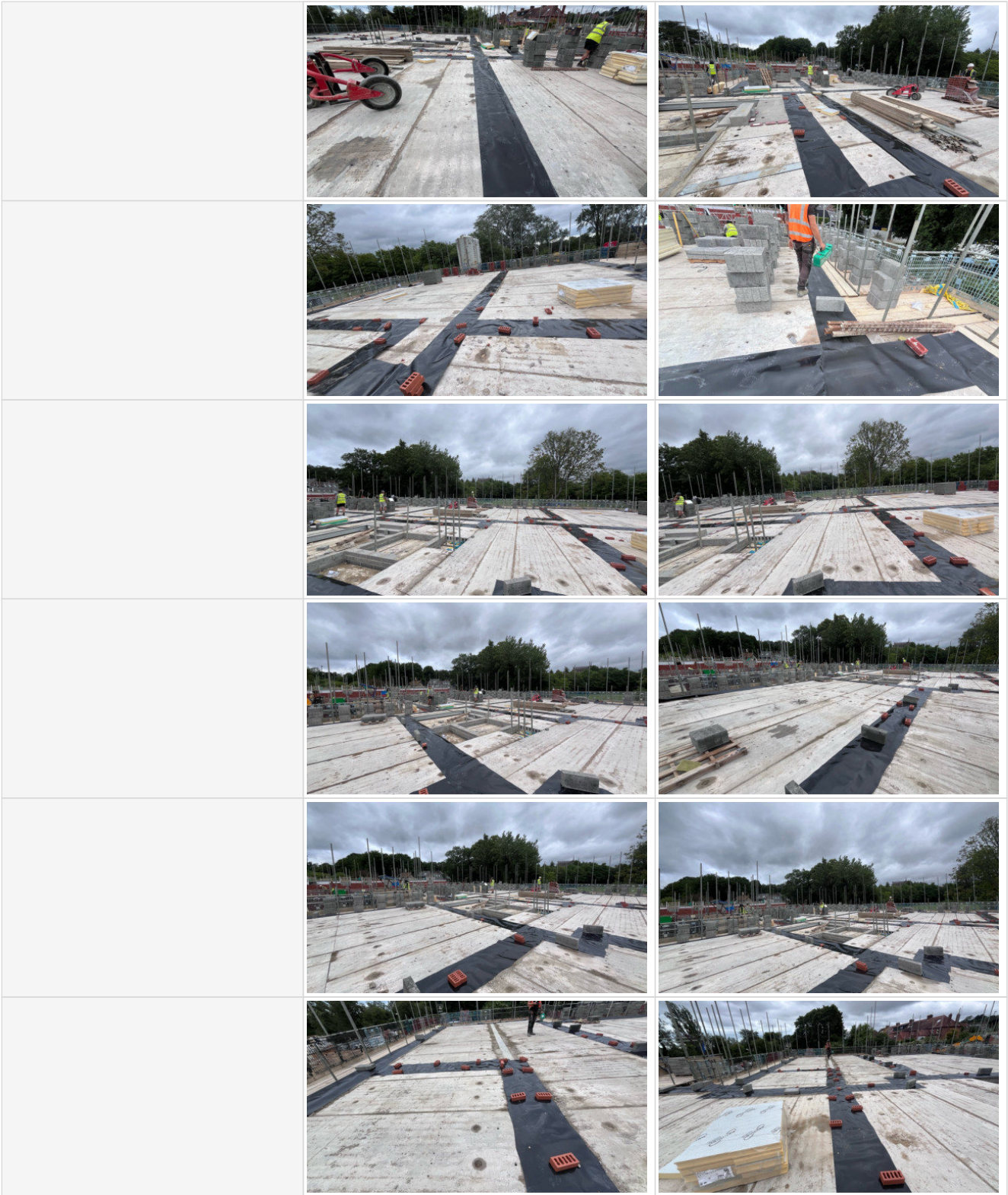
	12/05/2025 13:42
CUSTOMER EMAIL	
UK MEMBRANES OPERATIVE	TRISTAN ADAMS
UK MEMBRANES SIGNATURE	
COMPANY REGISTRATION NO. 7782780	
REGISTERED OFFIC: 40A MARKET SQUARE, ST. NEOTS, CAMBRIDGESHIRE, PE19 2AF	
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CERTIFICATE OF HANDOVER

Section 1

PROJECT	Ford Road Abundel BN189DX
CUSTOMER	Oakford Homes
UK MEMBRANES OPERATIVES	BEN COOK, LUCAS MORTON
START DATE	23/07/2024
ARRIVAL TIME	07:30 (1 GMT)
AREA/PLOT READY	Yes
IF NOT READY-REASON	
INSTALLATION METHOD	ALL MEMBRANES AND SELF ADHESIVES HEAT WELDED USING LEISTER TRIAC ST HEAT GUN OR LEISTER TWINNY S WELDING MACHINE.
ABORTED VISIT	
REASON FOR ABORTED VISIT	
SCOPE OF WORKS	PERIMETER
AREA/PLOT COMPLETED	Block B
WAITING TIME	
PROBE TEST	Yes
PHOTOS TAKEN	Yes
VALIDATION	No
VALIDATION COMPANY	N/A
VALIDATION DATE (DO NOT COVER UNTIL PASSED)	
MEMBRANE MATERIAL USED	JUTA TITANTECH 0.6x20M
ROLLS USED	8
SELF ADHESIVE USED	N/A
ROLLS USED	0
ADDITIONAL MATERIAL USED	
QUANTITY USED	
ADDITIONAL SELF ADHESIVE USED	
QUANTITY USED	
Multi Photo	

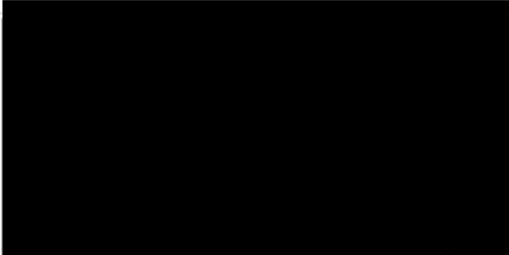
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Video		
.	WE CONFIRM THAT WE HAVE INSPECTED THE WORKS CARRIED OUT BY UK MEMBRANES LTD AND ARE SATISFIED THAT THE CONITION AND SCOPE OF WORKS ORDERED HAS BEEN EXECUTED IN ACCORDANCE WITHOUT SUB-CONTRACT ORDER AND SPECIFICATION	
PRINT NAME (CUSTOMER)	Chris Geal	
Signature (CUSTOMER)		
	23/07/2024 11:42	
CUSTOMER EMAIL	N/A	
UK MEMBRANES OPERATIVE	BEN COOK	

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UK MEMBRANES SIGNATURE	
COMPANY REGISTRATION NO. 7782780	
REGISTERED OFFIC: 40A MARKET SQUARE, ST. NEOTS, CAMBRIDGESHIRE, PE19 2AF	