

Plot 35





P10t35

Gas Protection - Validation Record Sheet

One record sheet to be completed for each plot

This Record sheet is only applicable to block and beam floor slabs for Characteristic Situation 2 gas protection systems

6654 Plot 37, Block 12

Inspection date:	17/10/17	Weather:	DRY + SUNNY	Inspected by:	DAVE BARNES	Company:	KIER LIVING
1) Sub Floor Venting System		Comments:					
1.1	Internal Wall Venting Pipes – size and spacing	—					
1.2	External Wall Venting – cranked vent spacing	—					
2) Gas Membrane Inspection		Comments:					
2.1	Inspection Stage:	STAGE 2 – FLOOR SLAB					
2.2	Condition of sub-grade & underside of gas membrane	FLOOR BRUSHED AND ALL TAPES APPLIED WELL SEALED TO A GOOD QUALITY					
2.3	Gas membrane type	RADBAR-BLACK					
2.4	Gas membrane condition and coverage	SEALED ON ALL FOUR SIDES – ALL GOOD					
2.5	Jointing tape product	DOUBLE SIDED RADBAR TAPE					
2.6	Lapping tape product	RADBAR UGRA LAPPING TAPE (SILVER)					
2.7	Condition of joints/seals	VISIBLE OVERLAPS, ALL GOOD					
2.8	Number and condition of service entry seals	3 NO TOPHATS FITTED WITH JUBILEE CLIPS, TAPES CHECKED, ALL OK					
2.9	Membrane steps/corner seals	NONE					
2.10	Repairs or Corrections:	1 NO REPAIR BY FRONT DOOR. USED 300mm WIDE RADBAR SIA DETAIL STRIP x 20m					
3) Photograph Check List – Tick to Confirm – Refer to Examples		I confirm I have independently inspected and verified the gas membrane installation has been completed in accordance with construction details and manufacturers guidance.					
3.1	Internal Venting Pipes Spacing	Signed: <u>DT Barnes</u> Dated: <u>17/10/17</u>					
3.2	External Cranked Vents Spacing						
3.3	Sub Floor Void	Photographs witnessed and approved by Coopers:					
3.4	Membrane Overview						
3.5	Overlaps	Signed: <u>SW</u> Dated: <u>17/10/17</u>					
3.6	Corners						
3.7	Services						
3.8	Product Types/Labels						

For Residential Development at New Church Street, Radcliffe.



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One record sheet to be completed for each plot

This Record sheet is only applicable to block and beam floor slabs for Characteristic Situation 2 gas protection systems

6654 Plot 38 Block 13

Inspection date:	17/10/17	Weather:	DRY + SUNNY	Inspected by:	DAVE BARNES	Company:	KIER LIVING
1) Sub Floor Venting System		Comments:					
1.1	Internal Wall Venting Pipes – size and spacing	—					
1.2	External Wall Venting – cranked vent spacing	—					
2) Gas Membrane Inspection		Comments:					
2.1	Inspection Stage:	STAGE 2 - FLOOR SLABS					
2.2	Condition of sub-grade & underside of gas membrane	SEALED TO A GOOD QUALITY, TAPES APPLIED WELL. FLOOR SWEEP CLEAN					
2.3	Gas membrane type	RADBAR-BLACK					
2.4	Gas membrane condition and coverage	ALL OK, SEALED ON ALL FOUR SIDES					
2.5	Jointing tape product	DOUBLE SIDED RADBAR TAPE					
2.6	Lapping tape product	RADBAR ULTRA LAPPING TAPE (SILVER)					
2.7	Condition of joints/seals	ALL GOOD, VISIBLE OVERLAPS					
2.8	Number and condition of service entry seals	3 NO TOPHATS WITH SUBILEE CLIPS - ALL TAPED UP TO A GOOD STANDARD					
2.9	Membrane steps/corner seals	NONE					
2.10	Repairs or Corrections:	NONE VISIBLE					
3) Photograph Check List – Tick to Confirm – Refer to Examples		I confirm I have independently inspected and verified the gas membrane installation has been completed in accordance with construction details and manufacturers guidance.					
3.1	Internal Venting Pipes Spacing	—		Signed: DS Barnes		Dated: 17/10/17	
3.2	External Cranked Vents Spacing	—					
3.3	Sub Floor Void	✓					
3.4	Membrane Overview	✓					
3.5	Overlaps	✓		Photographs witnessed and approved by Coopers:			
3.6	Corners	✓		Signed: [Signature]		Dated: 17/10/17	
3.7	Services	✓					
3.8	Product Types/Labels	✓					

For Residential Development at New Church Street, Radcliffe.

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Gas Protection - Validation Record Sheet

One record sheet to be completed for each plot

This Record sheet is only applicable to block and beam floor slabs for Characteristic Situation 2 gas protection systems

6654 Plot 39- Block 13

Inspection date:	17/10/17	Weather:	FINE + DRY	Inspected by:	DAVE BARNES	Company:	KIER LIVING
1) Sub Floor Venting System		Comments:					
1.1	Internal Wall Venting Pipes – size and spacing	—					
1.2	External Wall Venting – cranked vent spacing	—					
2) Gas Membrane Inspection		Comments:					
2.1	Inspection Stage:	FLOOR SLAB - STAGE 2					
2.2	Condition of sub-grade & underside of gas membrane	SEALED TO A GOOD QUALITY AND FLOOR SWEEP CLEAN. TAPES APPLIED WELL					
2.3	Gas membrane type	RADBAR-BLACK					
2.4	Gas membrane condition and coverage	ALL OK, SEALED ON ALL FOUR SIDES					
2.5	Jointing tape product	DOUBLE SIDED RADBAR TAPES					
2.6	Lapping tape product	RADBAR URA LAPPING TAPE (SILVER)					
2.7	Condition of joints/seals	ALL GOOD, VISIBLE OVERLAPS					
2.8	Number and condition of service entry seals	3 NO. TOPHATS FITTED WITH SUBILEE CLIPS, TAPES CHECKED, ALL OK.					
2.9	Membrane steps/corner seals	NONE.					
2.10	Repairs or Corrections:	2 PUNCTURES - REPAIRED USING 300x20mm RADBAR S/A DETAIL STRIP					
3) Photograph Check List – Tick to Confirm – Refer to Examples		I confirm I have independently inspected and verified the gas membrane installation has been completed in accordance with construction details and manufacturers guidance.					
3.1	Internal Venting Pipes Spacing	—					
3.2	External Cranked Vents Spacing	—					
3.3	Sub Floor Void	✓					
3.4	Membrane Overview	✓					
3.5	Overlaps	✓					
3.6	Corners	✓					
3.7	Services	✓					
3.8	Product Types/Labels	✓					
		Signed: <u>DS Barnes</u>		Dated: 17/10/17			
		Signed: <u>17/10/17</u>		Dated: <u>28</u>			

For Residential Development at New Church Street, Radcliffe.



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Plot 39



PLOT 39



One record sheet to be completed for each plot

This Record sheet is only applicable to block and beam floor slabs for Characteristic Situation 2 gas protection systems

Job No. 6654 PLOT 40 - BLOCK 13

Inspection date:	<u>17/10/17</u>	Weather:	<u>FINE + SUNNY</u>	Inspected by:	<u>DAVE BARNES</u>	Company:	<u>KIER LIVING</u>
1) Sub Floor Venting System		Comments:					
1.1	Internal Wall Venting Pipes - size and spacing	<u>—</u>					
1.2	External Wall Venting - cranked vent spacing	<u>—</u>					
2) Gas Membrane Inspection		Comments:					
2.1	Inspection Stage:	<u>STAGE 2 - FLOOR SLAB</u>					
2.2	Condition of sub-grade & underside of gas membrane	<u>FLOOR BRUSHED AND ALL TAPES APPLIED WELL. SEALED TO A GOOD QUALITY</u>					
2.3	Gas membrane type	<u>RADBAR - BLACK</u>					
2.4	Gas membrane condition and coverage	<u>SEALED ON ALL FOUR SIDES - ALL GOOD</u>					
2.5	Jointing tape product	<u>DOUBLE SIDED RADBAR TAPE</u>					
2.6	Lapping tape product	<u>RADBAR ULTRA LAPPING TAPE (SILVER)</u>					
2.7	Condition of joints/seals	<u>VISIBLE OVERLAPS, ALL GOOD</u>					
2.8	Number and condition of service entry seals	<u>3 NO. TOPHATS FITTED WITH SUBILEE CLIPS, TAPES CHECKED, ALL OK.</u>					
2.9	Membrane steps/corner seals	<u>NONE.</u>					
2.10	Repairs or Corrections:	<u>1 NO PUNCTURE - USED 300x20mm WIDE RADBAR S/A DRESS STRIP TO REPAIR</u>					
3) Photograph Check List - Tick to Confirm - Refer to Examples		I confirm I have independently inspected and verified the gas membrane installation has been completed in accordance with construction details and manufacturers guidance.					
3.1	Internal Venting Pipes Spacing			Signed: <u>DS Barnes</u>		Dated: <u>17/10/17</u>	
3.2	External Cranked Vents Spacing						
3.3	Sub Floor Void						
3.4	Membrane Overview						
3.5	Overlaps						
3.6	Corners						
3.7	Services						
3.8	Product Types/Labels						
				Photographs witnessed and approved by Coopers:			
				Signed: <u>[Signature]</u>		Dated: <u>17/10/17</u>	

For Residential Development at New Church Street, Radcliffe.



KIER

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PLOT 40





Radbar **Amber 1** Membrane

Capital Valley Plastics Limited, Cwmavon Works, Cwmavon, Nr Pontypool, Gwent, NP4 8UW

Tel: 01495 772255

Characteristic	Test Method	Unit	Result
PHYSICAL PROPERTIES			
Thickness	EN 1849 - 2	mm	0.5
Width	EN 1848 - 2	M	2
Length	EN 1848 - 2	M	25
HYDRAULIC PROPERTIES			
Water tightness 2kPa	EN 1928	-	Pass
Water Vapour Trans	BS 3177 (1995)	g/m ² /day	0.15
MECHANICAL PROPERTIES			
Resistance to static loading	EN 12730 Method B	kg	Pass at 20kg
Tensile strength MD	EN 12311 - 1	N/mm ²	21.2
Tensile strength CD	EN 12311 - 1	N/mm ²	21
Elongation MD	BS 2782 (1996) 320A	%	400
Elongation CD	BS 2782 (1996) 320A	%	500
Resistance to Impact	EN 12691	mm	Pass at 250mm
Resistance to tearing (nail shank) MD	EN 12310 - 1	N	339
Resistance to tearing (nail shank) CD	EN 12310 - 1	N	346
CHEMICAL/GAS RESISTANCE			
Radon Perm	-	10 ⁻¹² m ² /s	8
Radon Trans	-	10 ⁻⁹ m/s ⁻¹	22
CO ₂ Perm	ISO 2782:1995	m ² /s ⁻¹ /Pa ⁻¹	2.055 x 10 ⁻¹⁷
CO ₂ Trans	ISO 2782:1995	m/s ⁻¹	4.357 x 10 ⁻⁹
Methane Perm	ISO 2782:1995	m ² /s ⁻¹ /Pa ⁻¹	1.248 x 10 ⁻¹⁷
Methane Trans	ISO 2782:1995	m/s ⁻¹	2.452 x 10 ⁻⁹

N.B. The information provided in the datasheet is based on independent laboratory results and correct at the time of production

Above mentioned data are of informative character only. The manufacturer reserves the right to alter specifications without prior notice. It is the responsibility of all users to satisfy themselves that the above specifications are current.





Radbar Amber 2 Foil Barrier

Capital Valley Plastics Limited, Cwmavon Works, Cwmavon, Nr Pontypool, Gwent, NP4 8UW

Tel: 01495 772255

Characteristic	Test Method	Unit	Min	Avg	Max
PHYSICAL PROPERTIES					
Thickness	EN 1849 - 2	mm	0.5	0.6	0.7
Width	EN 1849 - 2	M		2	
Length	EN 1849 - 2	M		50	
HYDRAULIC PROPERTIES					
Water Column Test	EN20811	-	>300		
Resistance to Water Penetration	EN13967, EN1928	-	PASS		
Durability of watertightness against ageing	EN1296, EN13967, EN1928	-	PASS		
MECHANICAL PROPERTIES					
Resistance to static loading	EN 12730 Method B	KG	20		
Tensile strength MD	EN 12311 - 1	N/50mm	500	600	700
Tensile strength CD	EN 12311 - 1	N/50mm	380	480	580
Elongation MD	EN 12311 - 1	%	10	20	30
Elongation CD	EN 12311 - 1	%	10	20	30
Puncture Resistance (CBR)	EN 12236	KN	1.19	1.25	1.29
Resistance to tearing (nail shank) MD	EN 12310 - 1	N	270	330	400
Resistance to tearing (nail shank) CD	EN 12310 - 1	N	330	400	500
DURABILITY AND CHEMICAL RESISTANCE					
Transmission rate of volatile liquids - Diesel	ISO 6179:2010 (METHOD B)	g/m²/h	0.246		
Transmission rate of volatile liquids - Xylene	ISO 6179:2010 (METHOD B)	g/m²/h	0.571		
Transmission rate of volatile liquids - Toluene	ISO 6179:2010 (METHOD B)	g/m²/h	0.583		
Transmission rate of volatile liquids - Petrol	ISO 6179:2010 (METHOD B)	g/m²/h	0.135		
Radon Permeability	K124/02/95	m² s-1	8 x 10-15		
Carbon Dioxide Permeability Coefficient	DIN 53380 - 2	m² pa -1 s-1	2.58 x 10-19		
Methane Permeability Coefficient	DIN 53380 - 2	m² pa -1 s-2	1.56 x 10-19		
Methane Permeability	ISO 15105 - 1	ml/day.m².atm	30.66		

N.B. The information provided in the datasheet is based on independent laboratory results and correct at the time of production

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