

N O T E S

1. This drawing is to be read in conjunction with all relevant ARP and Architects drawings and project specifications.

2. Survey related to topographical survey supplied by Miller Homes (Yorkshire) Ltd.

3. Co-ordinates to be checked prior to works commencing. Any discrepancies to be brought to the immediate attention of ARP.

Yorkshire Water General Notes

1. All adoptable sewer works and material to be in accordance with Code for Adoption, the relevant British/European and Yorkshire Water's Standards/Requirements/Addendum to the Mechanical and Electrical Specification and Kitemarked.

2. Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.

3. Filled ground must be filled and consolidated under the supervision, and to the satisfaction, of Yorkshire Water before any sewer works are carried out.

4. Cover slabs must carry the BSI Kitemark or will be rejected by the Yorkshire Water inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600x600mm for the Yorkshire Water specified cover size. Please refer to the Concrete Pipe Systems Association (CPSA), "Technical Bulletin" issued autumn 2004 for kitemarked cover slab opening sizes.

5. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service lines.

6. Sewers must have 5 metres clearance from trees and hedges, (please also refer to Figure 2.3 on page 33 in "Sewers for Adoption" 6th Edition for restrictions on tree planting adjacent to Sewers).

7. Sewers to be laid in Class "S" bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in non vehicular access areas) then a concrete slab should be provided above the granular bed and surround.

8. Adoptable plastic sewer pipes to be BSI Kitemarked (Certified to MS 4-35-01 and BS/EN13476). Adoptable sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to be longer.

9. Plastic channel sections in manholes are not acceptable and clayware is preferable. Plastic channels are difficult to set in concrete and a satisfactory finish cannot be obtained on the benching.

10. The chamber size of manholes with more than one connection in them may need to be increased on increment to accommodate the connections and bends.

11. Yorkshire Water policy is not to accept Type "C" brick manhole and 1050mm dia manhole rings. Instead it is preferred that you use a type "D" manhole with 1200mm dia or 1500mm dia rings, with the opening aligned over the channel where depth of cover to pipe soffit is 1-1.5m.

12. Surface water and foul rising mains to be provided with marker tape above the rising mains.

13. If plastic pipes are to be used then the following should apply:

a. All adoptable sewers to be BSI Kitemark (Certified to MS 4-35-01 and BS/EN13476),

b. bedding and backfill material to conform to the requirements of Water Industry Specification 4-08-02 (Table A2)

14. Where plastic pipes are proposed for adoptable sewers, structural calculations for the plastic pipes and a site investigation report to prove that the ground condition is suitable for the plastic pipes are to be produced.

15. Where plastic pipes are installed into the ground prior to getting full technical approval, the developer must provide a CCTV survey of the prospectively adoptable sewers and a deformation test (Light-Line test) of the plastic pipes.

16. Demarcation chambers to be a min. 450mm chamber for 100mm foul & 150mm surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access opening to 350mm is required for safety reasons.

17. Maximum depth of demarcation chamber to be 2m, where depth exceeds 2m, manhole to be constructed as type B manhole.

18. Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage runoff will therefore be required and you will have to liaise with the Land Drainage Authority/Land Drainage Section with regard to the disposal of the filter drain/land drainage runoff is required.

19. Sulfate resisting cement (C20-02) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.

20. Strength of verified clay pipes (if used) to be 400N/m for 100A, 400N/m for 150A, 450N/m for 225A and 720N/m for 300A. All concrete pipes to be Class 120 concrete to EN 1916/BS 5911-1:2002.

21. All levels of existing drainage to be confirmed prior to work commencing on site.

22. The contractor must allow for any fees required for road and sewer opening permits, sewer connections and make the appropriate applications.

23. All excavations in areas of high water tables and granular materials with high sand/silt contents shall be wrapped with a suitable geotextile filter membrane to prevent migration of sands/silts. Full height clay struts across trenches and/or at manhole locations at 25m intervals to restrict water movement along the excavation shall be provided.

24. Yorkshire Water is not obliged to accept filter drain/land drainage runoff into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage runoff will be required and liaison with the Land Drainage Authority with regard to the disposal of the filter drain/land drainage runoff if necessary.

25. Do not scale from this drawing.

C RJ 07.02.23 Notes updated on laterals

B CR 13.01.23 Updated to suit revised private drainage

A JMG 08.07.22 Updated for IWWL submission

JMG 27.06.22 Issued for approval

Rev By Date Revision

Chk Apvd

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TITLE FOUL WATER
DEMARCATION SCHEDULE

PROJECT GYPSY LANE,
WOMBWELL

CLIENT MILLER HOMES
(YORKSHIRE) LTD

DRAWING STATUS PRELIMINARY

Scale N/A

Date MAY 22

Drawn JMG

Chk. DJG

Drg. No. 425/61/11.05

Rev C

FOUL WATER DEMARCATION CHAMBER MANHOLE SCHEDULE NETWORK 1																			
Manhole Reference	Easting (m)	Northing (m)	Cover Level (m A.O.D)	Invert Level (m A.O.D)	Depth To Invert (m)	Depth To Soffit (m)	Pipe Size Dia (mm)	Flow	Manhole Type	Grade Of Cover	Pipe Length (m)	Pipe Gradient (1:)	Cover & Frame (mm)	Chamber Opening (mm)	Manhole Type		Lateral Pipe Type		
F1a	440023.158	402335.634	72.700	71.300 71.250 71.250	1.400 1.450 1.450	1.300 1.300 1.300	100 150 150	In Out Out	PPIC 450dia	D400	4.61	69.80	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2001		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F3a	440066.007	402359.168	71.500	70.050 70.000 70.000	1.450 1.500 1.500	1.350 1.350 1.350	100 150 150	In Out Out	PPIC 450dia	B125	5.40	77.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2002		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F4a	440076.490	402347.161	70.950	69.750 69.700 69.700	1.200 1.250 1.250	1.100 1.100 1.100	100 150 150	In Out Out	PPIC 450dia	B125	5.68	59.20	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2003		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F5a	440105.529	402345.576	70.700	69.500 69.450 69.450	1.200 1.250 1.250	1.100 1.100 1.100	100 150 150	In Out Out	PPIC 450dia	D400	6.35	28.60	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2004		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F6a	440053.390	402288.685	71.850	70.650 70.600 70.600	1.200 1.250 1.250	1.100 1.100 1.100	100 150 150	In Out Out	PPIC 450dia	B125	8.22	25.40	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2005		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F7a	440103.747	402320.465	70.700	69.400 69.350 69.350	1.300 1.350 1.350	1.200 1.200 1.200	100 150 150	In Out Out	PPIC 450dia	B125	4.61	71.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2006		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F10a	440162.821	402313.406	68.950	67.750 67.700 67.700	1.200 1.250 1.250	1.100 1.100 1.100	100 150 150	In Out Out	PPIC 450dia	D400	5.60	20.70	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2007		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F10b	440156.111	402303.746	68.950	67.750 67.700 67.700	1.200 1.250 1.250	1.100 1.100 1.100	100 150 150	In Out Out	PPIC 450dia	D400	6.80	25.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2008		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F12a	440185.725	402275.622	68.570	67.150 67.100 67.100	1.420 1.470 1.470	1.320 1.320 1.320	100 150 150	In Out Out	PPIC 450dia	B125	4.74	26.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2009		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F12b	440174.538	402277.319	68.550	67.350 67.300 67.300	1.200 1.250 1.250	1.100 1.100 1.100	100 150 150	In Out Out	PPIC 450dia	B125	7.79	20.50	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2010		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F12c	440173.822	402246.236	68.940	67.180 67.130 67.130	1.760 1.810 1.810	1.660 1.660 1.660	100 150 150	In Out Out	PPIC 450dia	B125	5.93	10.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2011		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F13a	440131.358	402253.891	70.600	69.230 69.180 69.180	1.370 1.420 1.420	1.270 1.270 1.270	100 150 150	In Out Out	PPIC 450dia	D400	4.22	74.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2012		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F13b	440136.857	402263.088	70.600	69.400 69.350 69.350	1.200 1.250 1.250	1.100 1.100 1.100	100 150 150	In Out Out	PPIC 450dia	D400	6.62	28.80	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2013		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F14a	440162.022	402235.054	69.030	67.080 67.030 67.030	1.950 2.000 2.000	1.850 1.850 1.850	100 150 150	In Out Out	PPIC 450dia	D400	5.84	10.20	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2014		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F15a	440212.068	402210.369	68.000	66.280 66.230 66.230	1.720 1.770 1.770	1.620 1.620 1.620	100 150 150	In Out Out	PPIC 450dia	D400	5.30	11.20	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2015		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F17a	440225.933	402236.759	67.600	65.910 65.860 65.860	1.690 1.740 1.740	1.590 1.590 1.590	100 150 150	In Out Out	PPIC 450dia	D400	7.95	79.50	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2016		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F18a	440258.945	402255.471	66.900	65.180 65.130 65.130	1.720 1.770 1.770	1.620 1.620 1.620	100 150 150	In Out Out	PPIC 450dia	B125	4.98	76.60	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2017		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F19a	440292.121	402291.853	64.050	62.480 62.430 62.430	1.570 1.520 1.520	1.420 1.420 1.420	150 100 100	In Out Out	PPIC 450dia	B125	4.70	10.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2018		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F20a	440289.611	402374.462	61.500	60.160 60.110 60.110	1.340 1.390 1.390	1.240 1.240 1.240	100 150 150	In Out Out	PPIC 450dia	D400	8.38	76.90	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2019		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		
F22a	440324.936	402323.635	61.700	60.400 60.350 60.350	1.300 1.350 1.350	1.200 1.200 1.200	100 150 150	In Out Out	PPIC 450dia	B125	6.70	12.70	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2020		PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved		

FOUL WATER DEMARCATION CHAMBER MANHOLE SCHEDULE NETWORK 2																	
Manhole Reference	Easting (m)	Northing (m)	Cover Level (m A.O.D)	Invert Level (m A.O.D)	Depth To Invert (m)	Depth To Soffit (m)	Pipe Size Dia (mm)	Flow	Manhole Type	Grade Of Cover	Pipe Length (m)	Pipe Gradient (1:)	Cover & Frame (mm)	Chamber Opening (mm)	Manhole Type	Lateral Pipe Type	
F26a	440243.903	402407.165	62.250	60.830 60.780 60.780	1.420 1.470 1.470	1.320 1.320 1.320	100 150 150	In Out Out	PPIC 450dia	B125	8.61	12.70	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2001	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F27a	440287.621	402431.931	60.750	59.500 59.450 59.450	1.250 1.300 1.300	1.150 1.150 1.150	100 150 150	In Out Out	PPIC 450dia	B125	8.83	11.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2002	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F27b	440297.543	402443.534	60.750	58.750 58.700 58.700	2.000 2.050 2.050	1.900 1.900 1.900	100 150 150	In Out Out	PPIC 450dia	D400	8.05	79.70	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2003	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F28a	440208.304	402456.188	62.150	60.850 60.800 60.800	1.300 1.350 1.350	1.200 1.200 1.200	100 150 150	In Out Out	PPIC 450dia	B125	8.22	24.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2004	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F28b	440219.603	402457.357	61.850	60.550 60.500 60.500	1.300 1.350 1.350	1.200 1.200 1.200	100 150 150	In Out Out	PPIC 450dia	B125	5.99	41.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2005	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F29a	440272.274	402510.704	59.500	58.210 58.160 58.160	1.290 1.340 1.340	1.190 1.190 1.190	100 150 150	In Out Out	PPIC 450dia	B125	6.46	80.30	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2006	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F30a	440248.659	402493.101	60.800	58.970 58.920 58.920	1.830 1.880 1.880	1.730 1.730 1.730	100 150 150	In Out Out	PPIC 450dia	D400	6.66	40.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2007	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F31a	440269.421	402459.961	60.980	59.260 59.210 59.210	1.720 1.770 1.770	1.620 1.620 1.620	100 150 150	In Out Out	PPIC 450dia	B125	5.30	11.20	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2008	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F32a	440299.385	402475.772	59.750	58.500 58.450 58.450	1.250 1.300 1.300	1.150 1.150 1.150	100 150 150	In Out Out	PPIC 450dia	B125	5.33	11.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2009	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F32b	440290.260	402483.581	59.900	58.120 58.070 58.070	1.780 1.830 1.830	1.680 1.680 1.680	100 150 150	In Out Out	PPIC 450dia	B125	8.02	80.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2010	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F34a	440358.099	402516.100	54.500	53.300 53.250 53.250	1.200 1.250 1.250	1.100 1.100 1.100	100 150 150	In Out Out	PPIC 450dia	B125	6.03	27.40	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2011	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F36a	440355.794	402454.986	54.150	52.750 52.700 52.700	1.400 1.450 1.450	1.300 1.300 1.300	100 150 150	In Out Out	PPIC 450dia	B125	7.67	76.70	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2012	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F36b	440378.091	402465.245	53.500	52.200 52.150 52.150	1.300 1.350 1.350	1.200 1.200 1.200	100 150 150	In Out Out	PPIC 450dia	B125	4.75	31.70	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2013	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F37a	440383.959	402482.796	52.900	51.680 51.630 51.630	1.220 1.270 1.270	1.120 1.120 1.120	100 150 150	In Out Out	PPIC 450dia	B125	6.43	80.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2014	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F38a	440402.883	402493.146	52.500	51.250 51.200 51.200	1.250 1.300 1.300	1.150 1.150 1.150	100 150 150	In Out Out	PPIC 450dia	B125	7.05	46.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2015	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F39a	440417.440	402476.491	52.800	51.360 51.310 51.310	1.440 1.490 1.490	1.340 1.340 1.340	100 150 150	In Out Out	PPIC 450dia	B125	5.31	10.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2016	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F40a	440418.244	402459.155	53.050	51.310 51.260 51.260	1.740 1.790 1.790	1.640 1.640 1.640	100 150 150	In Out Out	PPIC 450dia	B125	7.31	10.10	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2017	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	
F41a	440425.590	402445.449	52.500	50.950 50.900 50.900	1.550 1.600 1.600	1.450 1.450 1.450	100 150 150	In Out Out	PPIC 450dia	D400	5.03	10.00	450x450	350x350	Polypropylene Non Man-Entry IC, Kitemarked and to BS EN 13598, product to be approved by Yorkshire Water to BS 7158:2018	PVC-U pipes to BS EN 13476-2 and BS EN 1401-1:2009. Rubber seals to BS EN 13476. BSI kitemark and BBA approved	