Drainage Report

Total Defects for Project

Total DRB Grades for Project

Clarus Homes





TN26 3AF

Prepared For Site

Clarus Homes
Suites 5 & 6, The Thorne Business
Park
Bethersden, Ashford
Kent

Great Chart, Bethersden, Ashford Kent TN23 3BZ

Bears Green Plot 2 - Bears Lane



HOULIHAN & CO LTD

CCTVSurveys@Houlihans.co.uk 01784 250 650

Total Defects for Project

Total DRB Grades for Project



Clarus Homes Bears Lane PLot 2 - CCTV Survey Report : 10/07/25

Name: HOULIHAN & CO LTD

Contact:

Location : Unit J2 Brooklands Close

Town: Sunbury-on-Thames

Region : Surrey
Postcode : TW16 7DX

Email: CCTVSurveys@Houlihans.co.uk

Contact Number: 01784 250 650

Surveyor:

Valid Certification No:

Client Information

Name: Clarus Homes

Contact:

Location: Suites 5 & 6, The Thorne Business Park

Town: Bethersden, Ashford

Region: Kent

Postcode: TN26 3AF

Tel:
Mobile:
Email:
Fax:

Site Information

Name: Clarus Homes

Contact:

Location : Bears Green Plot 2 - Bears Lane
Town : Great Chart, Bethersden, Ashford

Region: Kent

Postcode: TN23 3BZ

Tel:
Mobile:
Email:
Fax:

Total Defects for Project



Overview

Section: 1 From: F2.1 To: Kitchen/Cap	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 2 From: Kitchen Waste To: F2.1	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 3 From: F2.1 To: FW Gully	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 4 From: F2.1 To: Treatment Plant	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 5 From: F2.2 To: Internal 1	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
		, 5557.55
Section: 6 From: F2.2 To: Internal 2	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 7 From: F2.3 To: Internal 3	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul
Section: 8 From: F2.3 To: Internal 4 / WC	DRB Grade A	Structural Grade: 0 Service Grade: 0 DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Foul

Total Defects for Project

Total DRB Grades for Project





Scores

Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
F2.1	Kitchen/C ap	100	Vitrified Clay (i.e. all clayware)	0	0	0	0	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
Kitchen Waste	F2.1	100	Vitrified Clay (i.e. all clayware)	0	0	0	0	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
F2.1	FW Gully	100	Vitrified Clay (i.e. all clayware)	0	0	0	0	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
F2.1	Treatment Plant	100	Vitrified Clay (i.e. all clayware)	0	0	0	0	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
F2.2	Internal 1	100	Vitrified Clay (i.e. all clayware)	0	0	0	0	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
F2.2	Internal 2	100	Vitrified Clay (i.e. all clayware)	0	0	0	0	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
F2.3	Internal 3	100	Vitrified Clay (i.e. all clayware)	0	0	0	0	0
Start Ref	End Ref	Dia.	Material	Peak Structural Grade	Peak Operational Grade	Mean Operational Score	Peak Operational Score	Peak Structural Score
F2.3	Internal 4 / WC	100	Vitrified Clay (i.e. all clayware)	0	0	0	0	0



Olion	. 4.	Lanation (C)	tue et Neuee \.	O:h./T	\ /:II.a.a.a	Cust	Jah Daf	C	Name	. 1	Data	
Clien			treet Name): Plot 2 - Bears		own/Village at Chart,	Cust	Job Ref.	ourvey0	rs Name:		Date	
Clarus Ho	lomes	La		Bethers	den, Ashford						10/07/2	2025
Start Node Ref Start Node Dep Start Node Coo	pth:		F2.1 Finish No.000 Finish No.000			K	(itchen/Cap 0.00		U F VC	Heigh Shape Clean	e:	100 C N
		<u> </u>				I I						
	ining Type	Lining Mat.	Year Const.	Weather		Length		R	emarks			
A	otural Dog	k Crada 0	Operation	D Cro	de 0	6.37	DD Crod	e A			7	
		k Grade 0	Operation	onal Gra	de Ju		RB Grad				0m	
Position Co						(Video Ref	/		OIII	
00.0 M		node type, i	manhole					0:00:00	_/	'		
00.0 W		r level 0%						0:00:00				
06.4 M	IHF FINIST	n node type,	, manhole				0_9				6.37m	

Total Defects for section





Section 1

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	МН		Start node type, manhole, reference F2.1 F2.1	Image Provided - Ref: 0_0 10:22:38 07-07-2025 C.00m Houlihan & Co Ltd Site: ASHFORD BEAR S LN - PLOT 2 Survey From: F 2.1 Survey To: Direction: US Pipe Dia: 100 Pipe Materia: PVC
00.0m	0:00:00	WL		Water level: 0% Height/Diameter	Image Provided - Ref: 0_1 10:22:45 07-07-2025 0.55m
06.4m		MHF		Finish node type, manhole, reference Kitchen/Cap Reached Kitchen/Capped Off	Image Provided - Ref: 0_9999 10:23:12 07-07-2025 6.37m





Client:	Location (S	Street Name):	City/T	own/Village	Cus	t Job Ref.	Surveyor	s Name	:	Date:
Clarus Homes		Plot 2 - Bears ane	Gre Bethers	at Chart, den, Ashford					10/	07/2025
Start Node Ref: Start Node Depth: Start Node Coordinate	Kitchen W	0.00 Finish N	ode Ref: ode Depth: ode Coordi			F2.1 0.00	1	D F VC	Height/Dia Shape: Cleaned	a: 10
Drain Type Lining Ty	pe Lining Mat.	Year Const.	Weather	Flow Cont.	Length		Re			
A			D	N	3.07					
Structural	Peak Grade 0	Operati	onal Gra	de 0		ORB Grad	e A			
Position Code Do	<u>l</u>	outfall	onal Gra	de 0		CD Pic	e A Video Ref 0:00:00 0:00:00		3.	07m

Total Defects for section





Section 2

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	OF		Start node type, outfall, reference Kitchen Waste Kitchen Waste	Image Provided - Ref: 7_0 10:16:25 11-07-2025 Houlihan & Co Ltd Site:ASHFORD -BEAR S LN Survey From:SINK Survey To: Direction:DS Pipe Dia:100 Pipe Material:PVC
00.0m	0:00:00	WL		Water level: 0% Height/Diameter	
03.1m		MHF		Finish node type, manhole, reference F2.1 F2.1	Image Provided - Ref: 7_9999 10:17:35 11-07-2025 3.07m





Clier	nt:	Location (S	treet Name):	City/T	own/Vil	lage	Cus	t Job Ref.	Surveyo	rs Name	:	Date):
Clarus H	Homes		Plot 2 - Bears ine	Gre Bethers	at Char den, As	rt, shford					1	10/07/2	2025
Start Node Re Start Node De Start Node Co	epth:		F2.1 Finish N 0.00 Finish N Finish N					FW Gully 0.00		U F VC	Height/ Shape: Cleane		100 C N
Drain Type I	Lining Type	Lining Mat.	Year Const.	Weather	Flow C	Cont.	Length		R	emarks			
Α				D	N		7.37						
Stru	uctural Pe	ak Grade 0	Operati	onal Gra	de ()	[ORB Grad	e A				
Position C 00.0 M 00.0 W	Code Desc MH Star VL Wate		manhole	onal Gra	de (O.		CD Pic 1_0	e A Video Ref 0:00:00 0:00:00			7.37m	

Total Defects for section





Section 3

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	МН		Start node type, manhole, reference F2.1 F2.1	Image Provided - Ref: 1_0 10:37:38 07-07-2025 . Houlihan & Co Ltd Site:ASHFORD BEAR S LN - PLOT 2 Survey From: F 2.1 Survey To:AQUA CHANEL Direction:US Pipe Dia:100 Pipe Materia:PVC
00.0m	0:00:00	WL		Water level: 0% Height/Diameter	Image Provided - Ref: 1_1 10:37:43 07-07-2025 0.88m
07.4m		GYF		Finish node type Gully, reference FW Gully Reached External FW Gully	Image Provided - Ref: 1_9999 10:38:18 07-07-2025 7.36m Reached Manhole - End of Survey





rt Node Ref: rt Node Ref: rt Node Depth: rt Node Coordinate: F2.1 Finish Node Ref: rt Node Coordinate: Finish Node Coor		Client: Is Home	s	i	reen P	reet Name): Plot 2 - Bears	Gre	at Ch	Village art,		st Job Ref.	Sun	eyors l	vame		Dat 10/07/	
rt Node Depth: rt Node Coordinate: The Node Coordinate:								sden,	Ashford		atment Plant	Directi	on:	U	Heiah		1
In Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks A D N 18.16 Structural Peak Grade 0 Operational Grade 0 DRB Grade A Sition Code Description OMH Start node type, manhole OWL Water level 0% EXEM General remark OMH General remark CD Pic Video Ref 2_0 0:00:00 2_1 0:00:00 2_1 0:00:20 2_3 0:00:28 CMHF Finish node type, manhole CMH Video Ref 2_0 0:00:00 2_1 0:00:00 2_1 0:00:00 2_3 0:00:28 2_4 0:00:52 CMH Central remark								:									·
Structural Peak Grade 0 Operational Grade 0 DRB Grade A Sition Code Description CD Pic Video Ref 2_0 0:00:00 O WL Water level 0% 2_1 0:00:00 REM General remark 2_2 0:00:20 REM General remark 2_3 0:00:28 REM General remark 2_4 0:00:52 MHF Finish node type, manhole 2_9	art Node	Coordin	nate:			Finish N	ode Coord	inate:				Materi	al:	VC	Clear	ned	
Structural Peak Grade 0 Operational Grade 0 DRB Grade A Sition Code Description O MH Start node type, manhole O WL Water level 0% O REM General remark	ain Type	Lining	д Туре	Lining	Mat.	Year Const.	Weather	Flov	v Cont.	Length			Rem	arks			
Sition Code Description On MH Start node type, manhole On WL Water level 0% On REM General remark	Α						D		N	18.16							
2.0 0:00:00 MH Start node type, manhole 0.0 WL Water level 0% 2.1 0:00:00 2.2 REM General remark 2.3 0:00:28 3.5 REM General remark 2.4 0:00:52 3.2 MHF Finish node type, manhole	S	tructur	al Pe	ak Grad	e 0	Operati	onal Gra	de	0		DRB Grad	le	A				
2_1 0:00:00 2_1 0:00:00 2_2 0:00:20 2_3 0:00:28 2_3 0:00:52 3_5 REM General remark 3_5 REM General remark 2_4 0:00:52 3_8 MHF Finish node type, manhole	osition	Code	Desc	ription							CD Pic	Video	Ref		1	0m	
2.2 0:00:20 2.3 REM General remark 2.3 0:00:28 2.5 REM General remark 2.4 0:00:52 2.9	0.0	МН	Star	t node ty	/pe, r	manhole					2_0	0:00:0	0 -	_/	/		
REM General remark 2_3 0:00:28 2.5 REM General remark 2_4 0:00:52 2.2 MHF Finish node type, manhole 2_9	0.0	WL	Wat	er level	0%						2_1	0:00:0	0 -	_/			
REM General remark 2_3 0:00:28 2_4 0:00:52 2_9 MHF Finish node type, manhole	5.2	REM	Gen	eral rem	ark						2_2	0:00:2	20 -				
2_4 0:00:52 2_9 MHF Finish node type, manhole	7.3	REM	Gen	eral rem	ark						2_3	0:00:2	.8 -		$\overline{}$		
3.2 MHF Finish node type, manhole 2_9	3.5	REM	Gen	eral rem	ark									$\overline{}$	- 1		
						manhole							_	_ `	$\setminus \mathbb{I}$	ı .	
18.16m	·. <u>~</u>			,,,,,,	typo,	mamiolo					2_0				. 1		
18.16m															\setminus		
																18 16	Sm
																10.10	,,,,

Total Defects for section

DRB Grade for Section



0 0 0 0



Section 4

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	МН		Start node type, manhole,	Image Provided - Ref: 2_0
				reference F2.1 F2.1	15:02:02 09-07-2025 0.00m Houlihan & Co Ltd Site:BEAR S LN Survey From:F 2.1 Survey To:F 2.4 Direction:DS Pipe Dia:100 Pipe Material:PVC
00.0m	0:00:00	WL		Water level: 0%	Image Provided - Ref: 2_1
				Height/Diameter	15:02:08 09-07-2025 0.55m
05.2m	0:00:20	REM		General remark Enters MH 2.2	Image Provided - Ref: 2_2 15:02:22 09-07-2025 5.27m





Pos	Video Ref	Code	Cont.	Description	Image
07.3m	0:00:28	REM		General remark Enters MH 2.3	Image Provided - Ref: 2_3 15:02:30 09-07-2025 7.36m
13.5m	0:00:52	REM		General remark Enter MH 2.4	Image Provided - Ref: 2_4 15:02:54 09-07-2025 13.52m
18.2m		MHF		Finish node type, manhole, reference Treatment Plant Treatment Plant	Image Provided - Ref: 2_9999 15:03:25 09-07-2025 18.16m





C	ient:		Location (S	Street Name):	City/T	own/Village	Cust	Job Ref.	Surveyor	e Namo:	Date	a.
				Plot 2 - Bears		at Chart,	Cusi	Job Rei.	Surveyor	S INdIIIE.		
Clarus	Home	s 		ane		sden, Ashford					10/07/2	2025
Start Node				F2.2 Finish				Internal 1	1		leight/Dia:	100
Start Node Start Node		nate:		0.00 Finish N	Node Depth Node Coord			0.00	Use: Material:		Shape: Cleaned	C N
	1			1		1		l	•	<u> </u>		
Drain Type	Linin	д Туре	Lining Mat.	Year Const.	Weather	Flow Cont.	Length		Re	emarks		
A	ructur	al Pos	k Grade 0	Operat	D ional Gra	de 0	12.3	 DRB Grad	le A			
				Орега	ioriai Gra	de lo					0m	
Position									Video Ref		7	
00.0	MH		node type,						0:00:00	_/		
	WL		r level 0%						0:00:00	_		
12.3	MHF	Finish	n node type	, mannole				3_9				
										\	MO III	
										\		ΓΙ
										/		
											\	
											12.3m	,

Total Defects for section





Section 5

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	МН		Start node type, manhole, reference F2.2 F2.2	Image Provided - Ref: 3_0 10:39:42 07-07-2025 Houlihan & Co Ltd Site: ASHFORD BEAR S LN - PLOT 2 Survey From: F 2.2 Survey To:INT 1 Direction: US Pipe Dia: 100 Pipe Materia: PVC
00.0m	0:00:00	WL		Water level: 0% Height/Diameter	Image Provided - Ref: 3_1 10:39:48 07-07-2025 0.44m
12.3m		MHF		Finish node type, manhole, reference Internal 1 Reached SVP Kitchen	Image Provided - Ref: 3_9999 10:41:23 07-07-2025 12.30m





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	lient:		Location (St Besr Green P	treet Name):	-	own/Village	Cus	st Job Ref.	Surveyo	reyors Name: Dat		
Clarus	s Home	S	Besr Green F La		Bethers	at Chart, den, Ashford	ı				10/07/	2025
Start Node				F2.2 Finish N				Internal 2			eight/Dia:	100 C
Start Node Start Node		nate:		0.00 Finish N	ode Depth: ode Coordi			0.00	Material:	VC CI	hape: leaned	N
Drain Type	Lining	g Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length		R	emarks		
A					D	N	12.63					
S	tructur	al Pea	ık Grade 0	Operati	onal Gra	de 0		DRB Grad	le A			
Position	Code	Desci	ription					CD Pic	Video Ref		0m	
00.0	МН	Start	node type, i	manhole				4_0	0:00:00	_//		
00.0	WL	Wate	r level 0%					4_1	0:00:00			
12.6	BRF	Finish	n node type,	major conn	ection w	ithout mar	hole	4_9		\neg		
										\	1	
										\		
										\		
										/		
											\	
											12.63	3m

Total Defects for section





Section 6

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	МН		Start node type, manhole, reference F2.2 F2.2	Image Provided - Ref: 4_0 10:55:21 07-07-2025 O.00m Houlihan & Co Ltd Site:ASHFORD BEAR S LN - PLOT 2 Survey From: F 2.2 Survey To:INT 2 Direction:US Pipe Dia:100 Pipe Materia:PVC
00.0m	0:00:00	WL		Water level: 0% Height/Diameter	Image Provided - Ref: 4_1 10:55:25 07-07-2025 0.00m
12.6m		BRF		Finish node type, major connection without manhole, reference Internal 2 Reached SVP Utility	Image Provided - Ref: 4_9999 10:56:04 07-07-2025 12.52m





Claru	s Homes		Besr Green	Street Nar Plot 2 - E ane	Gre	at Ch	√illage art, Ashford		st Job Ref.	Surveyors Name:			Date: 10/07/2025		
art Node art Node art Node		te:			nish No	ode Ref: ode Depth ode Coord				Internal 3 0.00		F VC			10
ain Type	Lining ⁻	Туре	Lining Mat.	. Year C	onst.	Weather	Flow	/ Cont.	Length	1		Remarks			
Α						D		N	2.3						
S	tructura	l Pea	k Grade () Op	eratio	nal Gra	de	0		DRB Grad	e A				
	Code I MH S	Descri Start i Water		, manho	le	in Old		I ^v		CD Pic 5_0	Video Re 0:00:00 0:00:00	ef		2.3m	

Total Defects for section





Section 7

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	MH		Start node type, manhole, reference F2.3 F2.3	Image Provided - Ref: 5_0 10:58:34 07-07-2025 0.00m Houlihan & Co Ltd Site:ASHFORD BEAR S LN - PLOT 2 Survey From: F 2.3 Survey To:INT 1 Direction:US Pipe Dia:100 Pipe Materia:PVC
00.0m	0:00:00	WL		Water level: 0% Height/Diameter	Image Provided - Ref: 5_1 10:58:39 07-07-2025 0.11m
02.3m		MHF		Finish node type, manhole, reference Internal 3 Internal 3 - Capped off	Image Provided - Ref: 5_9999 10:58:48 07-07-2025 2.30m





Cl	ient:		Location (St	treet Name):	City/T	own/	Village	Cu	ıst Job Ref		Surveyor	:	Date:		
Clarus	Home	s	Besr Green F La	Plot 2 - Bears ne	Great Chart, Bethersden, Ashford									10/07/	2025
Start Node Start Node Start Node	Depth:	nate:		F2.3 Finish N 0.00 Finish N Finish N			:	In	ternal 4 / V 0	.00	Direction: Use: Material:	U F VC			100 C
Drain Type	Linin	g Type	Lining Mat.	Year Const.	Weather	Flov	v Cont.	Lengtl	h		Re	emarks			
Α					D		N	1.1							
St	ructur	al Pea	k Grade 0	Operati	onal Gra	de	0		DRB Gr	ade	e A				
Position	Code	Desci	ription						CD Pi	ic	Video Ref		1	0m	
0.00	МН	Start	node type, ı	manhole					6_	_0	0:00:00	_/	/		
0.00	WL	Wate	r level 0%						6_	_1	0:00:00	_/			
01.1	MHF	Finish	n node type,	, manhole					6_	_9		\neg		ш,	
												\		1.1m	

Total Defects for section





Section 8

Pos	Video Ref	Code	Cont.	Description	Image
00.0m	0:00:00	МН		Start node type, manhole, reference F2.3 F2.3	Image Provided - Ref: 6_0 10:59:35 07-07-2025 Houlihan & Co Ltd Site:ASHFORD BEAR S LN - PLOT 2 Survey From: F 2.3 Survey To:INT 2 Direction:US Pipe Dia:100 Pipe Materia:PVC
00.0m	0:00:00	WL		Water level: 0% Height/Diameter	Image Provided - Ref: 6_1 10:59:41 07-07-2025 0.00m
01.1m		MHF		Finish node type, manhole, reference Internal 4 / WC Reached WC	Image Provided - Ref: 6_9999 10:59:44 07-07-2025 1.10m



