

# BS5837:2012

Trees in relation to design, demolition and construction – Recommendations

Land at Wrexham Road, Abermorddu, Flintshire.

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26/07/16

Dear Ian

# **BS5837 Tree Survey** – Land at Wrexham Road, Abermorddu, Flintshire.

Fisher German LLP appointed Arbtech Consulting Ltd. in July 2016 to undertake a BS5837 Tree Survey and Tree Constraints Plan at the aforementioned site. Our arboricultural consultant, Mr. Alan Thompson undertook the survey on the 20<sup>th</sup> July 2016; weather conditions were hot, dry & bright. Subsequently we have produced this summary of our findings. Mr. Alan Thompson FdSc has over 7 years experience in both local authority and private practice environments.

# **Tree Survey Executive Summary**

All trees within the property have been surveyed using techniques demanded by BS:5837 2012, Trees in Relation to Construction.

A total of 44 individual trees, four grouped areas of trees and two hedgerows were surveyed. In general the tree stock on site is young to mature in age range.

Management recommendations have been made below where significant defects are suspected to be present.

All of the trees surveyed were in an acceptable or good condition at the time of the survey. No trees were deemed to be in a hazardous or unstable condition.

Individual notes on the tree's structural and physiological condition are found in the Notes section of the survey schedule.



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# BS5837 Scope

This standard recognizes that there can be problems of development close to existing trees which are to be retained, and of planting trees close to existing structures. This standard sets out to assist those concerned with trees in relation to construction to form balanced judgements. It does not set out to put arguments for or against development, or for the removal or retention of trees. Where development, including demolition, is to occur, the standard provides guidance on how to decide which trees are appropriate for retention, on the means of protecting these trees during development, including demolition and construction work, and on the means of incorporating trees into the developed landscape.

## **Definitions**

#### **Arboriculturist**

An arboriculturist (or arboricultural consultant) is a person who has, through relevant education, training and experience, gained recognized qualifications and expertise in the field of trees in relation to construction.

## **Tree Survey**

A tree survey should be undertaken by an arboriculturist and should record information about the trees on a site independently of and prior to any specific design for development. As a subsequent task, and with reference to a design or potential design, the results of the survey should be included in the preparation of a tree constraints plan, which should be used to assist with site layout design.

#### **Tree Constraints Plan**

A TCP is plan, typically delivered as an AutoCAD drawing (.dwg file format), prepared by an arboriculturist for the purposes of layout design showing the root protection area and representing the effect that the mature height and spread of retained trees will have on layouts through shade, dominance, etc.



#### **Root Protection Area**

An RPA is a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree, shown in plan form in m<sup>2</sup>.

## Construction Exclusion Zone (also termed Tree Protection Zone)

A construction exclusion or tree protection zone is an area based on the RPA (in m²), identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

#### **Tree Protection Plan**

A TPP is plan, typically delivered as an AutoCAD drawing (.dwg file format), prepared by an arboriculturist showing the finalized layout proposals, tree retention and tree and landscape protection measures detailed within the arboricultural method statement, which can be shown graphically.

## **Arboricultural Impact Assessment**

This is a study, undertaken by an arboriculturist, to identify, evaluate and possibly mitigate the extent of direct and indirect impacts on existing trees that may arise as a result of the implementation of any site layout proposal.

## **Arboricultural Method Statement**

This is a methodology for the implementation of any aspect of development that has the potential to result in loss of or damage to a tree. The AMS is likely to include details of an on-site tree protection monitoring regime.

# Methodology

The methodology used to assess the trees was the British Standard 5837:2012 'Trees in Relation to Construction' tree survey method. The aim of the survey is to establish which trees are moderate and good quality; suitable for retention and justifying protection, and, which trees are low or poor quality; either undesirable or unsuitable to retain and protect.

The tree survey includes all trees included in the land survey red line boundary plan, as well as any that may have been missed, and it should categorize trees or groups of trees, including woodlands for their quality and value within the existing context, in a transparent, understandable and systematic way. Where the arboriculturist has



deemed it appropriate, the trees have been tagged with small metal or plastic tags, placed as high as is convenient on the stem of each tree.

Whilst masterplan proposals for the proposed development of the site might be available, the trees have been surveyed without taking these into consideration. All detailed design work on site layout should take into consideration the results of the tree survey (and the TCP).

Trees forming groups and areas of woodland (including orchards, wood pasture and historic parkland) are identified and considered as groups where the arboriculturist has determined that this is appropriate, particularly where they contain a variety of species and age classes that could aid long-term management. It is often expedient to assess the quality and value of such groups of trees as a whole, rather than as individuals. However, an assessment of individuals within any group has been undertaken if they are open-grown or if there is a need to differentiate between them.

The quality and value of each tree or group of trees has been recorded by allocating it to one of the four categories; A, B, C, or U (highest to lowest quality respectively). The categories are differentiated on the tree survey plan by colour, or by suffixing the category adjacent to the tree identification number on the TCP.

The survey schedule lists all the trees or groups of trees. The following information is also provided:

- I. reference number (to be recorded on the tree survey plan);
- II. species (common or scientific names);
- III. height in metres;
- IV. stem diameter in millimetres at 1.5 m above adjacent ground level or immediately above the root flare for multi-stemmed trees;
- V. branch spread in metres taken at the four cardinal compass points;
- VI. height in metres of crown clearance above adjacent ground level:
- VII. age class (young, middle aged, mature, over-mature, veteran);
- VIII. physiological condition (e.g. good, fair, poor, dead);
  - IX. structural condition, e.g. collapsing, the presence of any decay and physical defect:
  - X. preliminary management recommendations, including further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat: and
  - XI. category grading to be recorded in plan on the tree survey plan.



#### Limitations

Trees were inspected from using visual observation from ground level only. Trees were not climbed or inspected below ground level. Inaccessible trees will have best estimates made about the location, physical dimensions and characteristics. Trees have been grouped where BS5837 guides us that it is expedient to do so. Trees have been excluded from the survey if they are found by us to be sufficiently far away from the proposed developable area or if they are outside of the red line boundary plan showing the expectations of our Client for the extent of the survey. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

# **Appendices**

The following documents were released to the Client as appendices to this report:

- Survey Schedule (PDF)
- Tree Constraints Plan drawing (PDF)

If you require clarification of information contained herein, please do not hesitate to contact me on 07703 676 216

Yours Sincerely,

A.S.Thom

Alan Thompson FdSc (Arb.), M Arbor A

**Arboricultural Consultant** 

# BS5837:2012 Tree Survey

Client: Fisher German LLP

Project: Land at Wrexham Road, Abermorddu, Flintshire.

Survey Date: 20/07/2016 Surveyor: Alan Thompson



# **Arbtech Consulting Ltd.**

Unit 3

Well House Barns Chester Road Chester

CH4 0DH

Phone: 01244 66 11 70

Tree and Tag No		Hght	S	Stems		Crowi			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	Ø (mm)	Spre (m		Clear Age (m)	A (m²) R (m)	Condition	Condition	•	RC	
G1												Estimated Measurer	ment
A Group		4	1	130	N	2.5	0.5	Υ	A: 7.6	Good	C: Good		.1.2
					E	2.5	0.5		R: 1.55		S: Good	Linear boundary screening group is comprised of Hazel, Wild >40	0 yrs
					S W	2.5 2.5	0.5 0.5				B: Good	cherry, Rowan, Ash and Elder. Measurements given are estimated averages for the group.	,
G2												Estimated Measurer	ment
A Group		7.5	10	221 (Eq)	) N	5	1	М	A: 22.2	Good	C: Good	B.1	1.2.3
					Ε	5	1		R: 2.65		S: Good	Group is comprised of approximately 25 mature Hazel >40	0 yrs
					S W	5 5	1				B: Good	coppices, intersperced with occasional Hawthorn, Holly and Elder. Measurements given are estimated averages for the group.	,
G3												Estimated Measurer	ment
A Group		10	1	400	N	4.5	3	М	A: 72.4	Good	C: Good	В	3.2
					Е	4.5	3		R: 4.8		S: Good	Group is comprised of 12 Alder and Sycamore trees. >40	0 yrs
					S W	4.5 4.5	3				B: Good	Understory is comprised of Holly, Hawthorn, Hazel and Elder. Measurements given are estimated averages for the group.	·
G4												Estimated Measurer	ment
A Group		6	6	171 (Eq)	) N	4	0.5	SM	A: 13.3	Good	C: Good	В	3.2
					E	4	0.5		R: 2.05		S: Good	Large group is comprised of Goat willow and Hazel >40	0 yrs
					S	4	0.5				B: Good	intersperced with Hawthorn, Elder and Occasional Silver birch.	
					W	4	0.5					Measurements given are estimated averages for the group.	
Age Classifications:	N	Newly plant	ted	EM Early		)	С	ondit		Crown	S	Stems: Ø Diameter	
	Y	Young		M Matur					S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 definition	1
	SM	Semi-matur	re	OM Over I	Mature	<b>:</b>			В	Basal area	a		

Tree and Tag No	Hght	9	Stems		Crow			RP	Phys	Structural	Preliminary Recommendations	Cat
Species	(m)	No	Ø (mm)	Spre (m		Clear (m)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
H1											Estimated Me	asurements
A Hedgerow	2	1	80	N	0.7	0.2	М	A: 2.9	Good	C: Good		C.1.2
- Unknown				Ε	0.7	0.2		R: 0.96		S: Good	Fragmented, partially lapsed Hawthorn hedgerow.	20 to 40
				S	0.7	0.2				B: Good	Measurements given are estimated averages for the group.	yrs
				W	0.7	0.2						
H2											Estimated Me	asurements
A Hedgerow	2	1	80	N	0.7	0.1	М	A: 2.9	Good	C: Good		C.1.2
- Unknown				Ε	0.7	0.1		R: 0.96		S: Good	Well maintained hedgerow. Predominantly Hazel intersperced	>40 yrs
				S	0.7	0.1				B: Good	with Hawthorn and Holly. Measurements given are estimated	,
				W	0.7	0.1					averages for the group.	
T1												
Goat Willow	5	6	171 (Eq	) N	3	0.5		A: 13.3	Good	C: Good		C.1
Salix caprea				Е	3	0.5		R: 2.05		S: Good	Tree of limited amenity value.	>40 yrs
				S	3	0.5				B: Good	Tree of liffliced afficility value.	,,,,
				W	3	0.5						
T2												
Goat Willow	4.5	7	132 (Eq	) N	2	0.5	Υ	A: 7.9	Good	C: Good		C.1
Salix caprea				Е	2	0.5		R: 1.58		S: Good	Tree of limited amenity value.	>40 yrs
				S	2	0.5				B: Good	Tree of liffliced afficility value.	,,,,
				W	2	0.5						
T3												
Common Alder	8.5	3	386 (Eq	) N	3	2	SM	A: 67.4	Good	C: Good		<b>B.1</b>
Alnus glutinosa				Е	4	3		R: 4.63		S: Good		>40 yrs
				S	3	2				B: Good		, ,
				W	4	2						
T4												
Common Alder	7	2	163 (Eq	) N	4	1.5	Υ	A: 12	Good	C: Fair		C.1
Alnus glutinosa				Ε	3	2		R: 1.95		S: Good	Tree's crown is suppressed to the south by T3.	>40 yrs
				S	1	5				B: Good	Tree's crown is suppressed to the south by 15.	,
				W	3	1.5						
Age Classifications:	N Newly pla	nted	-	Matur	е	(	Condit			Si	tems: Ø Diameter	
	Y Young		M Matur					S			(Eq) Equivalent stem diameter using BS5837:2012 de	finition
	SM Semi-mat	ure	OM Over	Mature	е			В	Basal are	а		

Tree and Tag No	IIba	S	items	Crown		n		RP	Phys	Churchinal	Preliminary Recommendations	C-4
Species	Hght (m)	No	Ø		ead	Clear	Age	A (m²)	Condition	Structural Condition	Survey Comment	Cat ERC
	(,		(mm)	(n	n)	(m)	m)	R (m)	0011011011		Survey comment	
T5												
Common Oak	3	1	90	N	0.5	1	Υ	A: 3.7	Fair	C: Fair		C.1
Quercus robur				Е	1.5	1		R: 1.08		S: Good	Tree of limited amenity value. Tree's crown is suppressed by	>40 yrs
				S	2	1				B: Good	T3.	, ,
				W	1.5	1						
Т6												
Common Alder	3	6	49 (E	q) N	1.5	0.5	Υ	A: 1.1	Good	C: Good		C.1
Alnus glutinosa				E	1.5	0.5		R: 0.59		S: Good	Trop of limited amonity value	>40 yrs
				S	1.5	0.5				B: Good	Tree of limited amenity value.	> 10 y13
				W	1.5	0.5						
T7												
Common Ash	6	1	240	N	3.5	2	Υ	A: 26.1	Good	C: Good		C.1
Fraxinus excelsior				Ε	3.5	2		R: 2.88		S: Fair	Tree of limited amenity value. Tree's stem has grown through	>40 yrs
				S	3.5	2				B: Good	and included adjacent chainlink fencing.	, 10 113
				W	3.5	2						
Т8												
Common Ash	10	1	250	N	3	2	Υ	A: 28.3	Good	C: Good		C.1
Fraxinus excelsior				Ε	3	2		R: 3		S: Good	Tree of limited amenity value.	>40 yrs
				S	3	2				B: Good	Tree or inflited afficility value.	
				W	1	4						
Т9												
Common Ash	8.5	1	240	N	3	2	Υ	A: 26.1	Good	C: Good		C.1
Fraxinus excelsior				Е	1	4		R: 2.88		S: Good	Tree of limited amenity.	>40 yrs
				S	3	2				B: Good	rice of inflicta difficulty.	, ,
				W	3	2						
T10												
Lombardy Poplar	22	1	550	N	3	3	М	A: 136.9	Good	C: Good		B.1
Populus nigra 'Italica'				Ε	3	3		R: 6.6		S: Good	Offsite tree on neighbouring land could not be fully inspected	>40 yrs
				S	3	3				B: Good	and the stem diameter measurement given is an estimate.	,10
				W	3	3						
Age Classifications: N	Newly plant	ted	-	y Matur	re .	C	ondit			Ste	ems: Ø Diameter	
Υ	Young		M Matu					S			(Eq) Equivalent stem diameter using BS5837:2012 de	finition
SM	Semi-matur	re	OM Over	r Matur	е			В	Basal area	a		

Tree and Tag No		Hght	S	Stems		Crown			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	Ø (mm)	Sprea (m)	_	ear n)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
T11												Estimated Me	easurements
Hybrid Black Poplar		20	1	800	N	10	5	М	A: 289.6	Fair	C: Good		B.1
Populus x canadensis					Е	8	5		R: 9.6		S: Fair	Previous major limb loss has resulted in a large tear wound	20 to 40
					S	6	5				B: Fair	with decay in tree's stem (east) running from base to 2.5m.	yrs
					W	7	5					Tree's condition should be monitored on a biannual basis.  Offsite tree on neighbouring land could not be fully inspected and the stem diameter measurement given is an estimate.	
T12												<u> </u>	
Western Balsam Poplar		20	1	600	N	9	3	М	A: 162.9	Good	C: Good		B.1
Populus trichocarpa					Е	8	3		R: 7.2		S: Good	Offsite tree on neighbouring land could not be fully inspected	>40 yrs
					S	7	3				B: Good	and the stem diameter measurement given is an estimate.	,
					W	8	3					·	
T13													
Common Ash		14	1	580	N	7	3	М	A: 152.2	Good	C: Good		B.1
Fraxinus excelsior					Е	7	4		R: 6.96		S: Good	Naturally occurring minor deadwood observed in tree's lower	>40 yrs
					S	7	3				B: Good	crown.	
					W	7	3						
T14													
Common Oak		12.5	1	630	N	7.5	3	SM	A: 179.6	Good	C: Good		B.1
Quercus robur					E	7.5	3		R: 7.56		S: Good		>40 yrs
					S	7.5	3				B: Good		
					W	7.5	3						
T15													
Common Ash		22	1	890	N	9.5	3	М	A: 358.4	Fair	C: Good		<b>A.3</b>
Fraxinus excelsior					E S	9 9	3		R: 10.68		S: Ivy	Veteran tree. Slight apical die back observed in tree's crown.	20 to 40
					S W	9 8.5	3 4				B: Fair	Thick ivy is spreading throughout tree's stem into crown.  Erosion of surrounding land with some root damage due to	yrs
					VV	0.5	7					livestock.	
Ago Classifications	N	Newly plant	had	EM Early	/ Mature			Condit	ion: C	Crown	e,	tems: Ø Diameter	
Age Classifications:	Y	Young	eu	M Matu			,	Jonali	ion: C S	Stem	3	(Eq) Equivalent stem diameter using BS5837:2012 de	finition
		Semi-matur	r <u>o</u>	OM Over					В	Basal are	_	(=q) Equivalent otem diameter deling booter.2012 de	

Tree and Tag No		Habt	:	Stems		Crow	/n		RP	Dhua	Character and	Preliminary Recommendations	C-1
Species		Hght (m)	No	Ø (mm		read m)	Clear (m)	Age	A (m²) R (m)	Phys Condition	Structura Condition		Cat ERC
T16													
Common Ash		22	1	1100	N	11	3.5	М	A: 547.5	Good	C: Good		<b>A.1</b>
Fraxinus excelsior					Е	11.5	3.5		R: 13.2		S: Good	Boundary tree could not be fully inspected and the stem	>40 yrs
					S	10	3.5				B: Good	diameter measurement given is an estimate. Inonotus hispidus	,
					W	10.5	3.5					fruiting body observed in major limb in tree's crown (south) at 7m.	
T17													
Common Ash		20	1	950	N	10	4	М	A: 408.3	Fair	C: Good		<b>A.3</b>
Fraxinus excelsior					Е	10	3		R: 11.4		S: Poor		>40 yrs
					S	6.6	6				B: Fair	due to included bark. Resulted in major tear wound with	
					W	9	3					major decay running from base to 3.7m. Tree is laying down good amount of reactionary cambium growth around tear wound. Tree's condition should be monitored on a biannual	
T18													
Sycamore		15	2	648	(Eq) N	8.5	4	SM	A: 190.1	Good	C: Good		B.1
Acer pseudoplatanus					Е	7.5	5		R: 7.77		S: Good	Tight stem union observed at tree's base.	>40 yrs
					S	7.5	5				B: Fair	3	
					W	7.5	4						
T19													
Sycamore		14.5	1	450	N	7	5	SM	A: 91.6	Good	C: Good		B.1
Acer pseudoplatanus					E	7	4		R: 5.39		S: Good		>40 yrs
					S	7					B: Good		
					W	7	4						
T20													
Common Ash		12	4	440	(Eq) N	6	5	SM	A: 87.6	Good	C: Good		B.1
Fraxinus excelsior					E	5	4		R: 5.28		S: Good		>40 yrs
					S W	5 5	5 4				B: Good		
Age Classifications:	N Y	Newly plant	ted		arly Matu ature	ıre		Condi	tion: C			Stems: Ø Diameter  (Eq) Equivalent stem diameter using BS5837:2012 definit	ition
	SM	Semi-matur	re	OM O	ver Matu	ire			В	Basal are	a		

Tree and Tag No			St	Stems		Crown			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		lght (m)	No	Ø (mm)	Spre (n		Clear (m)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	Cat ERC
T21				()	(	.,	()						
		15.5	1	480	N	6	4	SM	A. 104 2	Good	C: Good		D 4
Sycamore  Acer pseudoplatanus	_	15.5	1	400	E	5.5	4		A: 104.2 R: 5.75	Good	S: Good		B.1
Acei pseudopiatarius					S	5.5	4		N. J./J		B: Good		>40 yrs
					W	4	8				D. G000		
T22													
Sycamore		15	1	570	N	6	4	SM	A: 147	Good	C: Good		B.1
Acer pseudoplatanus			_		Е	4	8		R: 6.84		S: Good		>40 yrs
,					S	6	4				B: Good		>40 yis
					W	6	5						
T23													
Common Alder		12.5	2	411 (Eq	n (p	5.5	4	М	A: 76.5	Good	C: Good		B.1
Alnus glutinosa					Ε	5.5	4		R: 4.93		S: Good		20 to 40
					S	5	4				B: Good		yrs
					W	4	4						·
T24													
Common Alder		12	1	430	Ν	3.5	2	М	A: 83.7	Poor	C: Fair		C.1
Alnus glutinosa					Ε	8	2		R: 5.16		S: Fair	Tree has partially collapsed and has come to rest on T23. Tree	10 to 20
					S	3.5	2				B: Poor	is recommended for removal.	yrs
					W	1	10						
T25													
Common Ash		13	1	260	Ν	4.5	8	Υ	A: 30.6	Good	C: Good		B.1
Fraxinus excelsior					Е	4.5	7		R: 3.12		S: Good		>40 yrs
					S	4.5	8				B: Good		•
					W	4.5	8						
T26													
Common Alder		13	1	240	Ν	4	5	SM	A: 26.1	Good	C: Good		C.1
Alnus glutinosa					Ε	4	4		R: 2.88		S: Good	Tree of limited amenity value.	20 to 40
					S	4	5				B: Good	Tree of infliced differinty value.	yrs
					W	4	5						
Age Classifications:	N Newly			-	Matur	re		Condi			St	tems: Ø Diameter	<b>5</b>
	Y Young			M Matu					S			(Eq) Equivalent stem diameter using BS5837:2012 de	finition
	SM Semi-	-matur	re (	OM Over	Matur	е			В	Basal are	a		

Tree and Tag No	Haba	S	tems		Crown			RP	Dhua	Character and	Preliminary Recommendations	Cat
Species	Hght (m)	No	Ø (mm)	Spr (n		Clear (m)	Age	A (m²) R (m)	Phys Condition	Structural Condition	Survey Comment	ERC
T27												
Common Oak	21	1	1110	N	12	2	М	A: 557.5	Good	C: Good		A.1
Quercus robur				Ε	10	5		R: 13.32		S: Good	Naturally occurring (shaded out) deadwood observed in tree's	>40 yrs
				S	12.5	7				B: Good	crown.	,
				W	14	2						
T28												
Sycamore	16	1	840	Ν	7	4	М	A: 319.2	Good	C: Good		B.1
Acer pseudoplatanus				Е	9	2		R: 10.07		S: Good		>40 yrs
				S	9	2				B: Good		, -
				W	9.5	2						
T29												
Sycamore	14.5	2	601 (Eq	) N	8	3	М	A: 163.7	Good	C: Good		<b>B.1</b>
Acer pseudoplatanus				Ε	8	3		R: 7.21		S: Good	Thick Ivy is spreading throughout tree's stem into crown.	>40 yrs
				S	5	8				B: Good	Thick Try is spreading throughout tree's stell into down.	, -
				W	8	3						
T30												
Common Ash	5.5	4	154 (Eq	) N	2.5	1.5	Υ	A: 10.7	Good	C: Good		C.1
Fraxinus excelsior				Е	2.5	1.5		R: 1.84		S: Good	Tree of limited amenity value.	>40 yrs
				S	2.5	1.5				B: Good	Tree of inflitted differitty value.	, ,,,,
				W	2.5	1.5						
T31												
Sycamore	19	1	880	N	10	3	М	A: 350.4	Good	C: Good		B.1
Acer pseudoplatanus				Ε	10	3		R: 10.56		S: Good		>40 yrs
				S	10	3				B: Good		,
				W	10	2						
T32												
Sycamore	11	2	601 (Eq	) N	7.5	4	SM	A: 163.5	Good	C: Good		B.1
Acer pseudoplatanus				Е	7	4		R: 7.21		S: Good	Thick Ivy is spreading throughout tree's stem into crown.	>40 yrs
				S	7	4				B: Good	,	
				W	6	4						
Age Classifications:	N Newly plant	ed	EM Early		re	C	ondit			Si	tems: Ø Diameter	
	Y Young		M Matur					S			(Eq) Equivalent stem diameter using BS5837:2012 de	finition
	SM Semi-matur	e	OM Over	Matur	e			В	Basal are	a		

Tree and Tag No	Haba	S	Stems		Crown			RP	Dhua	Churchungl	Preliminary Recommendations	C-4
Species	Hght (m)	No	Ø (mm)	Spre (m		Clear (m)	Age	A (m²) R (m)	Phys Condition	Structural Condition	Survey Comment	Cat ERC
T33			()	(	•,	()		, ,				
	45.5		400		-	2	CM	A 100.6	6 1	0 0 1		
Sycamore	15.5	1	490	N	6	3	SM	A: 108.6	Good	C: Good		B.1
Acer pseudoplatanus				E	6.5	4		R: 5.87		S: Good		>40 yrs
				S	5	3				B: Good		
				W	6.5	2						
T34												
Common Oak	14	1	570	N	7	4	SM	A: 147	Good	C: Good		B.1
Quercus robur				Ε	8	4		R: 6.84		S: Good		>40 yrs
				S	7	4				B: Good		
				W	7.5	4						
T35												
Sycamore	13.5	1	590	N	7	2	М	A: 157.5	Good	C: Good		B.1
Acer pseudoplatanus				Ε	7	2		R: 7.08		S: Good		>40 yrs
				S	7	2				B: Good		> 10 yrs
				W	6.5	4						
T36												
Common Ash	20	1	1140	N	11	4	М	A: 588	Good	C: Good		A.1
Fraxinus excelsior				Е	12	1		R: 13.68		S: Good		>40 yrs
				S	12	3				B: Good		> +0 yıs
				W	12	3						
T37												
Common Alder	5.5	2	210 (Eq	) N	2.5	1.5	Υ	A: 20	Good	C: Good		C.1
Alnus glutinosa			` '	E	2.5	1.5		R: 2.52		S: Good	T CP 9 1 9 1	>40 yrs
3				S	2.5	1.5				B: Good	Tree of limited amenity value.	>=0 yis
				W	2.5	1.5						
T38												
Common Alder	15.5	2	587 (Eq	) N	5	7	М	A: 155.9	Good	C: Good		B.1
Alnus glutinosa				E	6.5	3		R: 7.04		S: Good	To all and hands also an administration of the transfer	20 to 40
				S	7	2				B: Fair	Included bark observed at tree's base at point of tight stem union.	yrs
				W	6.5	3					union.	7.2
Age Classifications:		ted	-	Matur	е	(	Condit			Ste	ems: Ø Diameter	l a fi m i ti a m
Y	′ Young M Semi-matu		M Matur OM Over					S B			(Eq) Equivalent stem diameter using BS5837:2012 of	eiinition

Tree and Tag No	11-64	S	Stems		Crown			RP	Phys	Churchinal	Preliminary Recommendations	C-4
Species	Hght (m)	No	Ø (mm)	Spre (m		Clear (m)	Age	A (m²) R (m)	Condition	Structural Condition	Survey Comment	Cat ERC
T39												
Common Alder	15	1	450	N	5	4	М	A: 91.6	Good	C: Good		B.1
Alnus glutinosa				Ε	6	3		R: 5.39		S: Good		>40 yrs
				S	6	2				B: Good		
				W	5	4						
T40												
Common Hawthorn	4	3	88 (Eq	) N	2.5	1.5	Υ	A: 3.5	Good	C: Good		C.1
Crataegus monogyna				Ε	2.5	1.5		R: 1.05		S: Good	Tree of limited amenity value.	>40 yrs
				S	2.5	1.5				B: Good	Tree of liffliced afficility value.	
				W	2.5	1.5						
T41												
Goat Willow	4.5	7	159 (Eq	) N	3.5	1	Υ	A: 11.4	Good	C: Good		C.1
Salix caprea				Е	3.5	1		R: 1.9		S: Good	Tree of limited amenity value.	>40 yrs
				S	3.5	1				B: Good	Tree of liffliced afficility value.	
				W	3.5	1						
T42												
English Elm	10	3	402 (Eq	) N	5	3	SM	A: 73	Good	C: Good		B.1
Ulmus procera				Е	4	4		R: 4.82		S: Ivy	Thick Ivy is spreading throughout tree's stem into crown.	20 to 40
				S	5	3				B: Good	Thick Ivy is spreading throughout tree's stell into crown.	yrs
				W	6	2						
T43												
Goat Willow	3	2	113 (Eq	) N	3.5	0.5	Υ	A: 5.8	Good	C: Good		C.1
Salix caprea				Е	3	0.5		R: 1.35		S: Good	Tree of limited amenity value.	>40 yrs
				S	3	0.5				B: Good	Tree of infliced differitty value.	, ,
				W	3	0.5						
T44												
Common Oak	8.5	1	450	N	4.5	4	SM	A: 91.6	Fair	C: Fair		B.2
Quercus robur				Е	3	4		R: 5.39		S: Ivy	Thick Ivy is spreading throughout tree's stem into crown.	20 to 40
				S	4.5	3				B: Good	Slight apical die back observed in tree's crown.	yrs
				W	4.5	4						
Age Classifications:	N Newly plant	ted	EM Early	Mature	e	(	Condit	ion: C		Ste	ems: Ø Diameter	
	Y Young		M Matur					S			(Eq) Equivalent stem diameter using BS5837:2012	definition
S	SM Semi-matur	re	OM Over	Mature	Э			В	Basal area	а		



