## BURGH LE MARSH FIVE-SAILED WINDMILL

## Specification for new cap components

Bonwick HC 29 September 2023 (version 1)

## Finished dimms:

Element	Component code	Component	Local name	New/ existing	No.	Finished dimms: section (W x D)	Finished dimms: length (approximate)	Design details	Construction details	Material	Decoration	
A. Curb		Upper ring segment		N	6	See drawings		Carefully inspect originals and re-use if possible.	Machine upper face of track flat and level. Machine ends of segments to ensure radial fit and consistent tooth pitch. Machine lower face of segments flat and level. Machine inner face to accept centring wheels.	SG iron	Red lead oxide; black enamel paint	done
Drawings		Lower ring segment		N	12	See drawings		Modify existing design to form complete ring, omitting infill brickwork, as at Sibsey Mill	Machine upper and lower faces flat and level. Machine end faces to ensure radial fit. Machine inner face to accept centring wheels. Level curb on top of tower, grout under and bolt securely to upper brickwork. Re-fit existing holding-down bolts.	SG iron	None	
		Bolts (upper to lower ring)		N	20	TBC				Stainless steel / galvanised	None	_ done
		Bolts (upper ring segments -		N	6	TBC				Stainless steel / galvanised	None	_ done
		end to end) Fish plates (upper ring)		N	6	TBC				Stainless steel / galvanised	None	_ done
		Fish plate bolts (upper ring)		N	20	TBC				Stainless steel / galvanised	None	_ done
		Bolts (Lower ring segments -		N	6	TBC				Stainless steel / galvanised	None	_ done
		end to end) Bolts (lower ring to tower)		N	12	TBC				Stainless steel / galvanised	None	_ done
		Hold down bolts		E	6	TBC			Overhaul and re-use existing	Stainless steel / galvanised	None	done
									bolts.	steel		done
		Generally					Add 300mm to these lengths and double check on drawings		Planed unless otherwise specified. Sharp corners removed. Match shaping to existing timbers unless specified.		Ends and joints exposed to the weather back to 75mm inside inner face of cladding	•
B. Cap frame /	A (R)	Sheer RHS		N	1	295 W x 305 D consistently	4880		SIEL IIIEU.	Dry oak	Kreidezeit Stand Oil Paint (exposed areas only, on all faces)	don
C. Fan stage /	A (L)	Sheer LHS		N	1	295 W x 305 D consistently	4880			Dry oak	Kreidezeit Stand Oil Paint (exposed areas only, on all faces)	don
D. Cap roof	В	Weather beam	Road baulk	N	1	352 W x 352 D	3385		Notched 22mm over sheers	Dry oak	Kreidezeit Stand Oil Paint (Top face, front face and ends. Rear and lower faces outside cap only)	
	С	Pillow block		N	1	?	600 approx			Dry oak	Kreidezeit Stand Oil Paint (exposed areas only, on all faces)	don
	D	Mullion (= front horn)	Mullion	N	2	160 W x 283 D	1200 approx	Set at splayed angle, wider at RB, narrower at headstock	Single tenoned into headstock, 63 up and tenon 70 D x 250 L	Dry oak	None	don
								HEAUSTOCK				_ 0011

F	Sprattle beam	Spindle beam	N	1	275 W x 203 D	2400 approx	Mortices in sheers are 370 L	Single tenon 50 down from top, 75 D x 102 L.	Dry oak	None
G	Puncheon (= side horn)		N	2	195 W x 145 D	862 approx		Single tenoned into sheers and secured with captive bolt. Lower face flush with lower face of sheers. Notched for cap circle	·	Kreidezeit Stand Oil Paint (outer end only)
Н	Tail beam		N	1	360 W x 375 D	2680		Double tenoned. Upper tenon 305 L x 120 D, 55 gap, lower tenon 72 D, 127 gap.	Dry oak	None
I	Tail mullion		N	1	295 W x 254 D?	Locate & survey.	Wedged off tail beam. Held quide sheave.			
J	Rear threshold beam		N	1	150 W x ? D	2200 approx	Rear striking gear hangers bolted to rear face which is external.	Mortice 50 down from top of sheer, 85 W x 150 L.	Dry oak	None
K	Fan stage deck board		N	1	250 W x 89 D	2000 approx	Ensure plank is adequately reinforced in centre.		Dry oak	Kreidezeit Stand Oil Paint
L	Fan stage ladder		N	1	500 W overall		6no. Treads. Rear string bolted to rear face of fan stage deck board (component K).		Dry oak	Kreidezeit Stand Oil Paint
М	Fantail post	Spear	N	2	152 W x 160 L at base.	5595		Butted and bolted to top of sheer.	Dry oak	Kreidezeit Stand Oil Paint
N	Fantail strut	Spurn	N	2	135 x 123 at base.	3500 approx	Tital (OD)	Footed on sheers at bottom.  Tenoned into lower face of spears at top.	Dry oak	Kreidezeit Stand Oil Paint
0	Lower tie beam (at roof)		N	1	120 x 95	1925 o/a, 1775 between shoulders	i	Tenoned into spears.	Dry oak	Kreidezeit Stand Oil Paint
P	Pulley rigger		N	1	110 W x 125 D	Length TBC	Locate & survey	Notched over and bolted to Beam O at inner end. Supported by beam Q at outer	Dry oak	Kreidezeit Stand Oil Paint
Q	Pulley rigger bracket		N	1	102 W x 127 D ?	Length TBC	Locate & survey	Bolted to rear face of X-braces (component R).	Dry oak	Kreidezeit Stand Oil Paint
R	X-brace		N	2	145 W x 76 D			Slightly notched together and bolted at centre. Butted and bolted to spears at top and spurns at bottom.	Dry oak	Kreidezeit Stand Oil Paint
S	Cap circle		N	1	152 W x 75 D	External radius 2190 approx.	Confirm design details during set-out.	Lower face flush with lower face of sheers. Tenoned into sheers (tenons 76mm long x 45mm high and mortices 38 mm above lower faces of sheers). Notched and bolted to puncheons.	Dry oak	Kreidezeit Stand Oil Paint ( face only)
Т	Cap rafter		N	26	51 W x 67 D			Notched and screwed into cap circle. Tenoned into finial.	Dry oak in maximum 2no. sections scarfed, glued and screwed together.	Kreidezeit Stand Oil Paint
U	Cap finial		N	1			Locate & survey	Re-use existing stalk if possible.	Dry oak	Kreidezeit Stand Oil Paint
V	Handrail		N	2	64 W x 78 D		Locate & survey	Carried on handrail post tenons and secured with oak pegs.	Dry oak	Kreidezeit Stand Oil Paint
W	Handrail post		N	10	64 W x 78 D	1000 approx	Locate & survey	Spiked to fantail posts (spears).	Dry oak	Kreidezeit Stand Oil Paint
X	Handrail brace		N	6	54 W x 16 D		Locate & survey	Set between handrail posts.	Dry oak	Kreidezeit Stand Oil Paint
Υ	Upper tie beam (near fantai	il)	N	1	155 W x 140 T-B		1390 o/a	Tenoned into spears.	Dry oak	Kreidezeit Stand Oil Paint
Z	Sarking boards		N	?	178 W x 12 THK		Confirm design details during set-out.	Screwed to rafters. Terminates at lower edge of cap circle.	Joinery grade redwood	None

AA	Exterior boards		N	?	178 W x 18 THK tapering to 6 THK		Upper ring of boards overlaps lower ring by 152mm?. Lower ring extends down past cap circle to form petticoat.	Feather edged, planed finish. Nailed to sarking boards. Allow for smaller timbers of treated softwood below sheers & puncheon for attachment of petticoat.		Kreidezeit Stand Oil Paint (laps, both edges and outer face)	do
ВВ	Centring wheel (front mullions)	Guide sheave	N	2			Locate & survey	Bolted through mullion.	SG iron	Red lead oxide; black enamel	_ do
CC	Centring wheel (front ends of sheers)	Guide sheave	N	2			Locate & survey	Bolted through sheer and overlay.	SG iron	Red lead oxide; black enamel paint	do
DD	Centring wheel (side puncheons)	Guide sheave	N	2			Locate & survey	Bolted through puncheon.	SG iron	Red lead oxide; black enamel paint	do
EE	Centring wheel (rear ends of sheers)	Guide sheave	N	2			Locate & survey	Bolted through sheer.	SG iron	Red lead oxide; black enamel paint	d
FF	Centring wheel (rear centre)	Guide sheave	N	1			Locate & survey	Bolted through rear mullion.	SG iron	Red lead oxide; black enamel paint	d
GG	Centring wheel spindle		N	9			Locate & survey	Form all new spindles to match existing, allowing for new nuts, washers and keys.	BDMS	None - lubricant only	d
НН	Skid block	Pig	N	9	103 W x 152 radially	Bed 35 D and tongue 51 D	Locate & survey	Press-fitted to sheers / front mullions / puncheons / rear	Grey iron	None - lubricant only	_ u
))	Windshaft		E	1	Forward end 230 square. Neck journal 230 diam. Central section max 221 square. Tail end octagonal, 155 across flats. Tail journal 110 diam. Tail end flange 135 diam.	3800 approx	Windshaft came down with the cap, hence its replacement may be the preferred option.	mullion Carry out strength tests on existing shaft to determine condition. If serviceable, remove remains of sail cross, clean down shaft and journals and redecorate.	Grey iron	Red lead oxide; black enamel paint	d
KK	Sail cross		N	1	5no. Arms 275 wide plus bulges for shackle fixings. Central hub 470 diam approx. Central hole 262	1736 radius approx	See detail drawing.	Keyed onto square forward end of windshaft with 4no. Pairs of steel taper keys.	SG iron	Red lead oxide; black enamel paint	
LL	Brake wheel		N	1	8-arm hub 292 D in centre and 190 D approx at periphery. Rim 345 W x 225 D in 2no. Layers.		Hub cast in halves and bolted together with 3no. Bolts per arm. Ends of arms rebated into rim and bolted. Tooth sections bolted to rim.	Dismantle remains of old wheel and confirm dimensions. Salvage undamaged components for possible re- use.	Hub and tooth sections: SG iron. Rim sections: dry oak.	Hub: red lead oxide, light blue enamel paint (match shade of existing wheel). Teeth: red lead oxide; black enamel paint. Rim: Kreidezeit Stand Oil Paint (white).	:.
1M	Brake band		N	2 pcs	203				BDMS	Undecorated.	c
١N	Brake lever stanchion		E	1	185 W x 203 D		Tenoned into sheer and strapped around it.	Dismantle, overhaul stanchion, re-shape block and re-fit to	Oak	Undecorated.	d
00	Brake lever		N	1	185 W x 203 D	2500 L approx.	Locate all parts & survey	new sheer.  Match dimensions and finish of historic lever.	Oak	Undecorated.	_ 0
PP	Brake pulley and bollard		N	1	TBC	TBC	Locate all parts & survey			Undecorated.	_ '
QQ	Brake hook		N	1	TBC	TBC	Locate all parts & survey			Clean down and de-grease.  Redecorate with black enamel paint, matt finish	
RR	Brake chain and guide pulley		N	1	TBC	TBC	Locate all parts & survey	Salvage old parts for re-use if serviceable.		Undecorated.	
SS	Neck bearing		E	1				Allow for blocks to appropriate height below bearing chair. Allow for renewal of bearing shell, machined to suit journal.	shell: gunmetal LG2.	Clean down chair and de- grease. Redecorate with black enamel paint, matt finish.	

TT	Tie rod to neck bearing		E	2					Wrought iron?	Red lead oxide; black enamel paint	done
UU	Tail bearing		E	1				Overhaul existing. Provide new brasses if worn.	Cast iron chair, gunmetal bearing shell.	Clean down and de-grease. Redecorate with red lead oxide	; done
VV	Tie rod from spear to weather beam	r	N	2	25mm diam		Manufacture and install tie rods, matching existing, to resist rotation of weather beam	Forward end flattened and moulded over front and lower faces of weather beam. Rear end flattened and butted to upper face of spear. Coach screw fivings	BDMS	Red lead oxide; black enamel paint	done
ww	Sheet metal flashing to front and rear of cap		N	n/a	1.2mm thickness		and mullions where they	Fit flashing around neck	sheet lead of equivalent thickness	Etching primer and metal paint.	done
XX	Storm hatch		N	1	Locate & survey				Oak frame & cedar cladding.	Kreidezeit Stand Oil Paint	
YY	Tail hatch		Е	1	490 W at top	915 H		Repair and redecorate existing.	Oak frame & cedar cladding.	Kreidezeit Stand Oil Paint	_ done done
ZZ	Fan stage ladder		N	1	TBC	TBC	7no. Treads	existing.		Kreidezeit Stand Oil Paint	done
3A	Fan blade	Fan board	N	8	Blade comprises 8no. Boards 16 thickness x 165 wide which includes 2no. 15mm half laps. Battens 60 x 16. Blade 363 wide at heel and 1320 wide at point.	1285 L	Blades set at 23 degrees to plane of rotation.	Blade held in slot in fan stock and secured with three bolts.	Joinery grade redwood	Kreidezeit Stand Oil Paint	done
3B	Fan stock		N	8	95 x 95	1702 L, inner ends shaped.		Slotted to accommodate blade. Inner end bolted through hub and clamped to arm with U-bolt.	Dry oak	Kreidezeit Stand Oil Paint	done
3C	Fan hub and cover plate		Е	1		810 radius		Allow for renewal of fixings.	Cast iron	Clean down and de-grease existing. Red lead oxide and black enamel paint.	done
3D	Fan spindle (shaft 1)		E	1	50mm square, journals 55mm long	933 between bearings.		Overhaul and decorate existing.	BDMS hot-dip galvanised	Clean down and de-grease existing. Red lead oxide and black enamel paint.	done
3E 3F	Bearings of shaft 1		N	2			Large plates bolted to		Grey iron and gunmetal LG2	Dad land avide and black	_
							fan spears.			enamel paint.	done
3G	Gear A (small bevel)		E	1	170 diam	12no. Teeth		Overhaul and decorate existing.	Grey iron	Clean down and de-grease existing. Red lead oxide and black enamel paint.	done
3H	Gear B (large bevel)		E	1	457 diam	38 teeth		Overhaul and decorate existing. Original is worn but serviceable.	Grey iron	Clean down and de-grease existing. Red lead oxide and black enamel paint.	done
3)	Down shaft (Shaft 2)		Е	1	32mm diam	In two parts, joined with dog clutch coupling above steady bearing. Upper part 1915 long	Locate lower part of shaft & survey.	Overhaul and decorate existing.	Wrought iron?	Clean down and de-grease existing. Red lead oxide and black enamel paint.	done
3K	Bearings for shaft 2		N	2					Grey iron and gunmetal LG2	None - lubricant only	done
3L	Bearing for lower end of shaft	t	N	1					Grey iron and gunmetal LG3	None - lubricant only	
	2										done

E. Winding gear

		E	1	90 radius		Locate & survey.	Overhaul and decorate existing.	Grey iron	Clean down and de-grease existing. Red lead oxide and
3N	Gear D (driven bevel)	E	1	160 radius		Locate & survey.	Overhaul and decorate	Grey iron	black enamel paint. Clean down and de-grease existing. Red lead oxide and
30	Horizontal shaft (Shaft 3)	E	1			Locate & survey.	existing.  Overhaul and decorate	Wrought iron?	black enamel paint. Clean down and de-grease
	Horizontal share (share s)	_	-			Escate a sarvey.	existing.	Woodgine work	existing. Red lead oxide and black enamel paint.
3P	Bearings for shaft 3	E	2			Locate & survey.	Overhaul and decorate existing.	Grey iron and gunmetal LG2	None - lubricant only
3Q	Gearbox	N	1				Original damaged during cap fall. Create pattern, re-cast, fettle and decorate.	SG iron	Red lead oxide and black enamel paint.
3R	Gear E (driving bevel)	Е	1	120 radius		Locate & survey.	Overhaul and decorate existing.	Grey iron	Red lead oxide and black enamel paint.
3S	Gear F (driven bevel)	Е	1	460 diam	38 teeth		Overhaul and decorate existing.	Grey iron	Red lead oxide and black enamel paint.
3T	Vertical shaft (Shaft 4)	Е	1		45 diam		Overhaul and decorate existing.	Wrought iron?	Red lead oxide and black enamel paint.
3U	Bearings for shaft 4	N	2				CAISUIIG.	Grey iron and gunmetal LG2	
3V	Gear G (spur pinion)	E	1	165 diam	12 teeth		Make pattern based on worn original. Cast, fettle, machine and fit to shaft.	Grey iron	Red lead oxide and black enamel paint.
3W	Gear H (spur wheel)	E	1	754 diam x 55 D	58 teeth		Overhaul and decorate existing.	Grey iron	Red lead oxide and black enamel paint.
3X	Final drive shaft (Shaft 5)	E	1		45 x 45		Overhaul and decorate existing.	Grey iron	Red lead oxide and black enamel paint.
3Y	Bearings and support bracket for shaft 5	E	2			Check integrity of bracket when removed from old cap frame.	Overhaul and decorate existing.	Grey iron	Red lead oxide and black enamel paint.
3Z	Gear J (Curb pinion)	N	1	203 diam		Survey and inspect when removed from old cap frame.	Replicate existing. Drill and machine keyway and fit to shaft. Provide spare casting.		Red lead oxide and black enamel paint.
						removed from old cap frame.	machine keyway and fit to		enamel paint.
3Z 4A	Gear J (Curb pinion) Striking rod	N N	1	203 diam  32mm diam		removed from old cap	machine keyway and fit to shaft. Provide spare casting.	BDMS, hot-dip galvanised	
						removed from old cap frame.  Threaded at forward end for spider coupling. Flanged at rear end to fit	machine keyway and fit to shaft. Provide spare casting.  Dismantle, inspect, overhaul,		enamel paint.  Clean down and de-grease existing. Read lead oxide and
4A	Striking rod	N	1	32mm diam		removed from old cap frame.  Threaded at forward end for spider coupling. Flanged at rear end to fit	machine keyway and fit to shaft. Provide spare casting.  Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul,		Clean down and de-grease existing. Read lead oxide and black enamel paint.
4A 4B	Striking rod  Rollers and onion box  Guide for rollers  Push rod (onion box to rocker	N E	1	32mm diam		removed from old cap frame.  Threaded at forward end for spider coupling. Flanged at rear end to fit	machine keyway and fit to shaft. Provide spare casting.  Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate.	Grey iron	Clean down and de-grease existing. Read lead oxide and black enamel paint.  None - lubricant only  None - lubricant only  Red lead oxide; black enamel
4A 4B 4C	Striking rod  Rollers and onion box  Guide for rollers	N E E	1 1 2	32mm diam  Locate & survey  Locate & survey		removed from old cap frame.  Threaded at forward end for spider coupling. Flanged at rear end to fit brass in onion box.  Keyed to push rods at	machine keyway and fit to shaft. Provide spare casting.  Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate.	Grey iron Wrought iron? Wrought iron?	enamel paint.  Clean down and de-grease existing. Read lead oxide and black enamel paint.  None - lubricant only  None - lubricant only  Red lead oxide; black enamel paint  Red lead oxide; black enamel paint  Red lead oxide; black enamel paint
4A 4B 4C 4D	Striking rod  Rollers and onion box  Guide for rollers  Push rod (onion box to rocker arm)	N E E E	1 1 2 2 2	32mm diam  Locate & survey  Locate & survey  Locate & survey		Threaded at forward end for spider coupling. Flanged at rear end to fit brass in onion box.	machine keyway and fit to shaft. Provide spare casting.  Dismantle, inspect, overhaul, lubricate.	Grey iron Wrought iron? Wrought iron? Grey iron	Clean down and de-grease existing. Read lead oxide and black enamel paint.  None - lubricant only  None - lubricant only  Red lead oxide; black enamel paint
4A 4B 4C 4D 4E	Striking rod  Rollers and onion box  Guide for rollers  Push rod (onion box to rocker arm)  Rocker arm	N E E E E E	1 2 2 2 2	32mm diam  Locate & survey Locate & survey Locate & survey Locate & survey		removed from old cap frame.  Threaded at forward end for spider coupling. Flanged at rear end to fit brass in onion box.  Keyed to push rods at top	machine keyway and fit to shaft. Provide spare casting.  Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate.	Grey iron Wrought iron? Wrought iron? Grey iron Wrought iron?	Clean down and de-grease existing. Read lead oxide and black enamel paint.  None - lubricant only  None - lubricant only  Red lead oxide; black enamel paint
4A 4B 4C 4D 4E 4F	Rollers and onion box Guide for rollers Push rod (onion box to rocker arm) Rocker arm Rocking lever spindle	N E E E E E E	1 1 2 2 2 2 1	32mm diam  Locate & survey	D 2400 to end	removed from old cap frame.  Threaded at forward end for spider coupling. Flanged at rear end to fit brass in onion box.  Keyed to push rods at top	machine keyway and fit to shaft. Provide spare casting.  Dismantle, inspect, overhaul, lubricate. Dismantle, beck and overhaul information. Bolt through threshold beam. Overhaul and decorate	Grey iron Wrought iron? Wrought iron? Grey iron Wrought iron?	Clean down and de-grease existing. Read lead oxide and black enamel paint.  None - lubricant only  None - lubricant only  Red lead oxide; black enamel paint
4A 4B 4C 4D 4E 4F 4G	Striking rod  Rollers and onion box  Guide for rollers  Push rod (onion box to rocker arm)  Rocker arm  Rocking lever spindle  Rocking lever hangers	N E E E E E E N	1 1 2 2 2 1 2 2	Jamm diam  Locate & survey  Locate & survey	D 2400 to end	removed from old cap frame.  Threaded at forward end for spider coupling. Flanged at rear end to fit brass in onion box.  Keyed to push rods at top	machine keyway and fit to shaft. Provide spare casting.  Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate. Dismantle, inspect, overhaul, lubricate. Dismantle, check and overhaul journals. Bolt through threshold beam.	Grey iron Wrought iron? Wrought iron? Grey iron Wrought iron? Grey iron	enamel paint.  Clean down and de-grease existing. Read lead oxide and black enamel paint.  None - lubricant only  Red lead oxide; black enamel paint

assembly

δA	Whip		N	1	279 x 279 at heel, 279 W x 314 at 2743 out, 140 x 140			Fit 4no. Galvanised steel hoops after shaping and prior to mortising.	Laminated heartwood of Siberian larch	Kreidezeit Stand Oil Paint
i	Sail bar		N	9	at noint. 98 W x 48 D tapering to 80 W x 29 D.	2235 approx.		5mm chamfers to ends. Remove all other sharp edges. Install tapered bar wedges on all sail bars to match existing.	Joinery grade redwood	Kreidezeit Stand Oil Paint
2	Uplong	Inside rule	N	1	45 x 38	8100 approx		5mm chamfers to ends.	Dry heartwood of Siberian larch	Kreidezeit Stand Oil Paint
)	Hemlath	Outside rule	N	1	45 x 38	8100 approx		5mm chamfers to ends.	Dry heartwood of Siberian larch	Kreidezeit Stand Oil Paint
	Backstay		N	9	95 W x 42 D tapering to 32 D	2000 approx		5mm chamfers to arrises.	Joinery grade redwood	Kreidezeit Stand Oil Paint
	Thimble strip	Firring piece	N	16	45 x 45	1000 approx		5mm chamfers to arrises.	Joinery grade redwood	Kreidezeit Stand Oil Paint
3	Wind board	Weatherboard	N	1	115 W	8100 approx		5mm chamfers to arrises.	Joinery grade redwood	Kreidezeit Stand Oil Paint
1	Sail shackle		N	3	35 x 35			Provide painted oak blocks to front face of whip to suit	BDMS, hot-dip galvanised	Mordant solution; black ename paint; Kreidezeith paint (white to blocks
J	King bolt		N	1	Square head and section with square			Replicate existing.	BDMS, hot-dip galvanised	Mordant solution; black ename paint
<	Whip band	Ноор	N	4	washer 32 x 6	Size varies to match girth of		Match existing.	BDMS, hot-dip galvanised	Mordant solution; Kreidezeit Stand Oil Paint
=	Carriage bolts		N	36		whip.	To inside and outside rules, backstay thin ends and weatherboards	M12	Stainless steel.	Mordant solution; Kreidezeit Stand Oil Paint
1	Front disc		Е	1	757 diam x 35 thk at periphery tapering to 45 thk in	1		Refurbish and re-use existing.	Grey iron	Red lead oxide; black enamel paint
V	Back oak		N	1	279 W x 45 D at heel tapering to 70 D at Sailbar 2.	2210	Starts 175 from heel end of whip.	Drill for king bolt and glue to rear face of whip	Dry oak	Kreidezeit Stand Oil Paint
	DIMENSIONS AND QUANT	TITIES FOR ONE S	AIL ONLY							
4	Cross iron (spider)		N	1		152 radius c-c	Left-handed.	Match existing.	Grey iron	Red lead oxide; black enamel paint
3	Rein iron		N	1		320 c-c		Match existing.	Grey iron	Red lead oxide; black enamel paint
3	Harp iron - inner arm		N	1		375 c-c		Match existing.	Grey iron	Red lead oxide; black enamel paint
)	Harp iron - outer arm		N	1		355 c-c		Match existing.		•
	Harp iron spindle		E	1	45 diameter?	490 o/a		Dismantle, inspect, overhaul. Allow for re-bushing as necessary.	Grey iron	Red lead oxide; black enamel paint
	Stump iron		N	2		345 c-c approx	Mirrored pair with spine on outer faces of legs and placement stub on inner faces.	Identify any serviceable parts and set aside for potential re- use. Include for separate bearing caps.	·	Red lead oxide; black enamel paint
3	Fork iron (connecting rod)		N	1	25 diameter?	2600 approx	Identify any serviceable parts and set aside for potential re-use.		BDMS, hot-dip galvanised	Mordant solution; black ename paint
+	Working uplong	Striking rule	N	1	45 x 45	9100 approx		Remove all sharp edges.	Dry heartwood of Siberian	Kreidezeit Stand Oil Paint
)	Shutter crank		N	22	45 degrees	175 throw (should be 178)		Identify any serviceable parts and set aside for potential re-		Kreidezeit Stand Oil Paint
K	Shutter pivot		N	22				Identify any serviceable parts	Grey iron	Kreidezeit Stand Oil Paint

and set aside for potential re-

done

H. Front striking gear

L	Sail shutter	Shade	N	22	305 W	1636 between square shoulders, 1746 between rules	Strong back 76 x 38	Identify any serviceable parts and set aside for potential reuse.		Kreidezeit Stand Oil Paint
	PROVISIONAL ITEM	Shade - new	N	1	305 W	1637 between square shoulders, 1746 between rules	Strong back 76 x 38	Provide cost per new shutter	Strong back: Joinery grade redwood. Wire: 7mm diam stainless steel. Covering: LOOMSTATE (unproofed) 12oz canvas. Attachment: man-made thread.	Kreidezeit Stand Oil Paint

END OF COMPONENT SPECIFICATION