



ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
20	STEP - POLE, SCREW-IN (SEE NOTE 12)	250144	185198	A/R
19	WASHER - FLAT, M16, GALVANISED	518081	177984	4
18	WASHER - CONICAL, M16, GALVANISED (USE WITH HARDWOOD CROSSARMS)	518082	H39647	4
	WASHER - SPRING, M16, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)			
17	BOLT & NUT - M16x150mm, HEX., GALVANISED	515466	175672	4
16	BOLT & NUT - M16x130mm, HEX., GALVANISED	515466	46979	4
15	BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 5)	514379	H17762	8
14	INSULATOR - SHACKLE, REEL, TYPE SH.LV2	514407	75812	4
13	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		4
12	BLOCK - GAIN, ALUMINIUM, 100mm		146274	1
11	WASHER - FLAT, M20, GALVANISED	518081	177986	1
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	1
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	2
8	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		1
7	WASHER - CONICAL, M12, GALVANISED (USE WITH HARDWOOD CROSSARMS)	518082	H39639	2
	WASHER - SPRING, M12, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)	518082	H12047	
6	WASHER - FLAT, M12, GALVANISED	518081	177982	4
5	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm CROSSARM)	515466	46847	2
	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2700mm & 2100mm CROSSARMS)	515466	46888	
	BOLT & NUT - M12x130mm, HEX., GALVANISED (USE WITH 2706mm, 2406mm & 2106mm CROSSARMS)	515466	46805	
4	CROSSARM - 2400x125x100mm, TYPE LT3, HARDWOOD (SEE NOTES 6, 7, 8, 10 & 11)	15233	71746	1
	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 6, 7, 8, 10 & 11)	514374	H23745	
	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 6, 7, 8, 10 & 11)	514373	H23892	
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 6, 7, 8, 10 & 11)	262732	186774	
	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 6, 7, 8, 10 & 11)	262732	186775	
	CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 6, 7, 8, 10 & 11)	262732	186776	
3	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	1
2	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 9)	46	76745	2
	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 9)	514385	H17738	
1	POLE - TIMBER (AS REQUIRED)	513988		1

NOTES :

- THE FOLLOWING INFORMATION IS OBTAINED FROM THE PROJECT DESIGN DRAWINGS:
 - POLE LENGTH AND STRENGTH.
 - SPECIAL FOUNDATION REQUIREMENTS.
 - POLE EMBEDMENT DEPTH.
 - CONDUCTOR SIZE.
 - CROSSARM SIZE AND BRACE REQUIREMENTS.
 - STAY REQUIREMENTS.
 - DEVIATION ANGLE.
- THE MAXIMUM LINE DEVIATION ANGLE TO BE CONSTRUCTED ON THIS ARRANGEMENT IS TO BE DETERMINED BY THE LINE DESIGNER.
- ALL BOLTS PASSING THROUGH TIMBER ARE TO BE COATED WITH GRAPHITE GREASE.
- POLES SHALL BE DRILLED, SCARFED AND DRESSED ON SITE. DRILLING AND SCARFING TO BE TREATED WITH APPROVED PRESERVATIVES.
- THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
- COMPOSITE FIBRE CROSSARMS ARE TO BE USED AS THE PREFERRED OPTION UNDER NORMAL CIRCUMSTANCES.
- A 2706mm COMPOSITE FIBRE CROSSARM IS TO BE USED AS THE DEFAULT CROSSARM. FOR NARROW FEEDER ALIGNMENTS, A SHORTER CROSSARM MAY BE CONSIDERED TO OVERCOME DESIGN AND SITE CONSTRAINTS.
- ONLY THE 2706mm COMPOSITE FIBRE CROSSARM OPTION IS SHOWN ON THIS CONSTRUCTION DRAWING. REFER TO DRGS: 262732, 514373, 514374 & 15233 FOR DRILLING PATTERN OF ALTERNATE CROSSARMS.
- THE 690mm CROSSARM BRACES ARE TO BE USED ON A 2706mm, 2106mm, 2700mm & 2100mm CROSSARM. THE 490mm CROSSARM BRACES ARE TO BE USED ON A 2406mm & 2400mm CROSSARM.
- FOR DETAILS OF APPROVED ALTERNATE WAGNER COMPOSITE FIBRE CROSSARMS, REFER TO DRG: 265964.
- WHEN SPECIFYING WAGNER COMPOSITE FIBRE CROSSARMS, A REVIEW OF ALL THE HARDWARE ATTACHED TO THE CROSSARM WILL BE REQUIRED.
- POLE STEPS ARE TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NS128.
- REFER TO DESIGNER SAFETY REPORT D22/200555 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. DO NOT SCALE.

CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS DWN: P.R. CHKD: P.J. APPD: G.F. DATE: 08/12/2023 NOTES & MATERIAL LIST AMENDED. ASSOCIATED DRAWING ADDED. 14	DWN: P.R. CHKD: P.J. APPD: G.F. DATE: 25/09/2024 WAGNER CROSSARM OPTION REMOVED FROM MATERIAL LIST. NOTE ADDED. 15	COMPOSITE FIBRE CROSSARMS WAGNER SPECIFICATION	265964		SCALE	1:15	STANDARD CONSTRUCTION LV TERMINATION CONSTRUCTION 1-10	SIZE A2	DRAWING No 513903	SHEET 1	AMD 15
		2700mm CROSSARMS FOR LV, 11kv, 22kv AND 33kv CONSTRUCTION DETAILS	514373		DESIGNED	-					
COMPOSITE FIBRE CROSSARMS SPECIFICATION WOODEN CROSSARMS FOR 415V OVERHEAD MAINS WOODEN CROSSARMS FOR LV, 11kv & 33kv CONSTRUCTION DETAILS 514374				145 NEWCASTLE RD WALLSEND, NSW 2287	CHECKED	-	PROJECT NUMBER STD	PROJTRAK NUMBER -	513903	1	15
ASSOCIATED DRAWINGS				APPROVED	ROBERT BREMMELL						
				DATE	15/03/1996						