



**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 AND INSULATOR PINS 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.
- NON-TENSION COMPRESSION SLEEVES TO BE USED WHEN REQUIRED TO JOIN CONDUCTORS.
- THE SHACKLE STRAP IS TO BE FORMED TO SUIT THE CROSSARM AND INSULATOR.
- IF THE CONDUCTOR DEVIATES AT THE INSULATOR, USE THE ANGLE TYPE CONDUCTOR TIE ARRANGEMENT. OTHERWISE, USE THE INTERMEDIATE TYPE CONDUCTOR TIE ARRANGEMENT AS SHOWN ON DRG: 514044.
- 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.
- BI-METALLIC PARALLEL GROOVE CLAMPS ARE NOT TO BE INSTALLED ON TENSIONED CONDUCTORS. IF JOINING ALUMINIUM AND COPPER CONDUCTOR, A PARALLEL GROOVE CLAMP AND CONDUCTOR TAIL TO SUIT THE TENSIONED CONDUCTOR MATERIAL IS TO BE INSTALLED. THE ALUMINIUM AND COPPER CONDUCTORS ARE JOINED WITH A BI-METALLIC COMPRESSION LINK INSTALLED IN THE NON-TENSIONED CONDUCTOR TAPPING.
- 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 D22/200908 FOR ATYPICAL HAZARDS ASSOCIATED WITH THIS STANDARD CONSTRUCTION.

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
25	STEP - POLE, SCREW-IN (SEE NOTE 15)	250144	185198	A/R
24	LINK - BI-METALLIC, COMPRESSION (TO SUIT CONDUCTORS) (SEE NOTE 12)	514053		1
23	INSULATOR - LV, (LPLV PATTERN 'B') & PIN ARRANGEMENT	513995		3
22	JOINT - NON TENSION, COMPRESSION (TO SUIT CONDUCTOR) (SEE NOTE 5)	514053		3
21	TIE - CONDUCTOR, LOW VOLTAGE, SUPPORT ARRANGEMENT (SEE NOTE 7)	514044		5m
20	CLAMP - PARALLEL GROOVE (TO SUIT CONDUCTOR) (SEE NOTE 12)	514099		1
19	DEADEND - PREFORMED, HELICAL (TO SUIT CONDUCTOR)	514098		8
18	BOLT & NUT - M16x130mm, HEX., GALVANISED	515466	46979	8
17	INSULATOR - SHACKLE, REEL, TYPE SH.LV2	514407	75812	8
16	BRACKET - MOUNTING, SHACKLE, LV FLAT, GALVANISED (SEE NOTE 6)	514379	H17762	16
15	WASHER - FLAT, M16, GALVANISED	518081	177984	5
14	WASHER - CONICAL, M16, GALVANISED (USE WITH HARDWOOD CROSSARMS)	518082	H39647	5
	WASHER - SPRING, M16, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)			
13	BOLT & NUT - M16x150mm, HEX., GALVANISED	515466	175672	5
12	BLOCK - GAIN, ALUMINIUM, 100mm		146274	2
11	WASHER - FLAT, M20, GALVANISED	518081	177986	2
10	WASHER - CONICAL, M20, GALVANISED	518082	H39655	2
9	WASHER - SQUARE, 75x75x6mm, GALVANISED (Ø22mm HOLE)	518081	H39231	4
8	BOLT & NUT - M20, HEX., GALVANISED (LENGTH TO SUIT POLE)	515466		2
7	WASHER - CONICAL, M12, GALVANISED (USE WITH HARDWOOD CROSSARMS)	518082	H39639	4
	WASHER - SPRING, M12, GALVANISED (USE WITH COMPOSITE FIBRE CROSSARMS)	518082	H12047	
6	WASHER - FLAT, M12, GALVANISED	518081	177982	8
	BOLT & NUT - M12x150mm, HEX., GALVANISED (USE WITH 2400mm CROSSARM)	515466	46847	
5	BOLT & NUT - M12x180mm, HEX., GALVANISED (USE WITH 2700mm & 2100mm CROSSARMS)	515466	46888	4
	BOLT & NUT - M12x130mm, HEX., GALVANISED (USE WITH 2706mm, 2406mm & 2106mm CROSSARMS)	515466	46805	
4	CROSSARM - 2400x125x100mm, TYPE LT3, HARDWOOD (SEE NOTES 8, 9, 10, 13 & 14)	15233	71746	2
	CROSSARM - 2100x150x100mm, TYPE I, HARDWOOD (SEE NOTES 8, 9, 10, 13 & 14)	514374	H23745	
	CROSSARM - 2700x150x100mm, TYPE E, HARDWOOD (SEE NOTES 8, 9, 10, 13 & 14)	514373	H23892	
	CROSSARM - 2106x102x102mm, TYPE 4, COMPOSITE FIBRE (SEE NOTES 8, 9, 10, 13 & 14)	262732	186774	
	CROSSARM - 2406x102x102mm, TYPE 5, COMPOSITE FIBRE (SEE NOTES 8, 9, 10, 13 & 14)	262732	186775	
	CROSSARM - 2706x102x102mm, TYPE 6, COMPOSITE FIBRE (SEE NOTES 8, 9, 10, 13 & 14)	262732	186776	
3	SCREW - COACH, M12 x 100mm, GALVANISED		H40484	2
2	BRACE - CROSSARM, FLAT, TYPE L, 490mm, GALVANISED (SEE NOTE 11)	46	76745	4
	BRACE - CROSSARM, FLAT, 690mm, GALVANISED (SEE NOTE 11)	514385	H17738	
1	POLE - TIMBER (AS REQUIRED)	513988		1

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

ITEM	DESCRIPTION	DRG. No	STOCK CODE	QTY
15	WAGNER CROSSARM OPTION REMOVED FROM MATERIAL LIST. NOTES ADDED.			
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ASSOCIATED DRAWINGS				
	COMPOSITE FIBRE CROSSARMS WAGNER SPECIFICATION	265964		
	2700mm CROSSARMS FOR LV, 11kV, 22kV & 33kV CONSTRUCTION DETAILS	514373		
	COMPOSITE FIBRE CROSSARMS SPECIFICATION	262732		
	LV CONDUCTOR TIE & SUPPORT ARRANGEMENTS	514044		
	WOODEN CROSSARMS FOR 415V OVERHEAD MAINS	15233		
	WOODEN CROSSARMS FOR LV, 11kV & 33kV CONSTRUCTION DETAILS	514374		

NETWORK STANDARD  
**Ausgrid**  
 145 NEWCASTLE RD WALLSEND, NSW 2287

SCALE	1:20	STANDARD CONSTRUCTION		
DESIGNED	-	LV CORNER POLE TERMINATION		
DRAWN	PETER SAUNDERS	CONSTRUCTION		
CHECKED	-	1-12		
APPROVED	ROBERT BREMMELL	SIZE	DRAWING No	SHEET
DATE	26/03/1996	A2	513940	1
PROJECT NUMBER	STD	AMD		15
PROJ/TRAK NUMBER	-			