



TABLE 1 - ALLOWABLE CABLE SIZE AND TYPE FOR EXTERNAL CONNECTION

CABLE	SIZE	TYPE	CONDUCTOR	MAX. CABLES PER PHASE
CONSUMER MAINS	UP TO 630mm ²	FLEXIBLE SINGLE CORE ONLY	COPPER	4
SERVICE MAINS	240 TO 630mm ²	FLEXIBLE SINGLE CORE ONLY	COPPER	4

- FAULT LEVEL**
MINIMUM FAULT LEVELS SHALL BE IN ACCORDANCE WITH EVOENERGY SERVICE AND INSTALLATION RULES (P007173); MULTI-RESIDENTIAL (MIN FOUR UNITS), COMMERCIAL OR INDUSTRIAL = 30KA
- NOTES**
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH EVOENERGY POINT OF ENTRY CUBICLE REQUIREMENTS P007174.
 - ALL DIMENSIONS ARE IN MILLIMETERS.
 - DIMENSIONS AND PART SIZES (BOLTS, STUDS, BUSBARS) ARE TYPICAL VALUES. MANUFACTURER TO DETERMINE DIMENSIONS AND PART SIZES EXCLUDING THOSE NOMINATED AS 'FIXED' TO ACHIEVE COMPLIANCE TO AS/NZS 61439.5 SAFETY AND PERFORMANCE REQUIREMENTS. BUSBARS MUST BE SUITABLE FOR MIN. 65MM WIDE PALM LUGS FOR TERMINATION OF 630mm² CU CABLES.
 - DIMENSIONS NOMINATED AS 'FIXED' ARE EVOENERGY PREFERRED VALUES. CHANGES TO THESE VALUES REQUIRE EVOENERGY APPROVAL PRIOR TO CONSTRUCTION.
 - FINAL ARRANGEMENT AND DIMENSIONS OF CUBICLE SHALL SUIT SPECIFIC PROJECT REQUIREMENTS AND BE APPROVED BY THE RESPONSIBLE EVOENERGY PROJECT OFFICER.
 - 100mm SEPARATION BETWEEN CONDUITS ENTERING INTO POE CAN BE REDUCED TO SUIT PROJECT REQUIREMENTS WITH APPROVAL BY EVOENERGY PROJECT OFFICER.
 - EXTERNAL DOOR MUST HAVE WELDED METAL STRENGTHENING SUPPORT WITH 50mm SADDLE FOR DISCONNECTOR HANDLE.
 - 4 x 125mm CONDUIT EVOENERGY SUPPLY REQUIREMENT.
 - ALL EXTERNAL ASSOCIATED CABLE TO CUBICLE (FREE STANDING OR FORMING PART OF A MSB/POE COMBINATION) SHALL BE BOTTOM ENTRY ONLY.
 - ALL NON-ASSOCIATED CABLES, MUST NOT BE INSTALLED IN THE CUBICLE (FREE STANDING OR FORMING PART OF A MSB/POE COMBINATION).

- ENCLOSURE CONSTRUCTION NOTES**
- 1.5mm ZINC ANNEAL METAL CONSTRUCTION FOR BODY & EXTERNAL DOOR.
 - ALL WELDED JOINTS & CORNERS SANDED & FINISHED TO FORM A FLAT SURFACE.
 - EXTERNAL DOOR IS HINGED WITH CHROME PLATED PIN HINGES. OPENING 180°.
 - EXTERNAL DOOR IS LOCKED USING LOCKWOOD 213CP DEADBOLT.
 - COMPONENTS REQUIRING IDENTIFICATION SHALL BE LABELLED WITH PVC ENGRAVED LABELS OF WHITE MATERIAL WITH BLACK LETTERING. INTERNAL LABELS SECURED WITH DOUBLE SIDED TAPE. EXTERNAL LABELS SECURED WITH U DRIVE PINS.
 - 75 x 40mm CHANNEL IRON PLINTH WELDED TO SWITCHBOARD BODY.
 - POWDER COAT INTERNAL AND EXTERNAL SURFACES TO AS/NZS 4506 REQUIREMENTS FOR CATEGORY C - 'MILD EXTERIOR' ATMOSPHERIC ENVIRONMENT.
 - EVOENERGY PREFERRED COLOUR FINISH FOR EXTERNAL SURFACES IS STORM GREY N42 TO AS2700.
 - FORM OF SEGREGATION: FORM 1
 - DEGREE OF PROTECTION: IP56, DUSTPROOF CONSTRUCTION ACHIEVED USING TOP MOUNT PROFILE EPDM PINCH WELD.
- EQUIPMENT LIST**
- (A) EVOENERGY SERVICE EQUIPMENT
 - (A1) 3 - SCHNEIDER 2000A SAIF (LOAD BREAK) DISCONNECTOR TO BE SUPPLIED BY EVOENERGY
 - (A1a) 2 - 130 x 10mm* TINNED Cu BUSBAR ACTIVE LINE SIDE TERMINATION LINKS
 - (A1b) 2 - 130 x 10mm* TINNED Cu BUSBAR ACTIVE LOAD SIDE TERMINATION LINKS
 - (A2) 2 - 130 x 10mm* TINNED Cu BUSBAR SERVICE NEUTRAL LINK
 - (A3) 1 - 40 x 6.3mm* TINNED Cu BUSBAR MEN LINK
 - (A4) 1 - 40 x 6.3mm* TINNED Cu BUSBAR EARTH LINK
 - (A5) 1 - 40 x 6.3mm* TINNED Cu BUSBAR CUBICLE EARTH TERMINATED ON M12* STUD FULLY WELDED TO SWITCHBOARD WALL
 - (A6) EARTH STRAP - 70mm² FLEXIBLE STRANDED GREEN/YELLOW CABLE TO AS/NZS 5000.1 CONNECTED BETWEEN M10 STUDS FULLY WELDED TO SWITCHBOARD WALL & DOOR
 - (A7) 3mm CLEAR PVC ESCUTCHEON OVER ALL LIVE PARTS MOUNTED ON 20mm PVC ROD * SEE NOTE 3
- SWITCHBOARD COMPONENTS**
- LOCKWOOD 213CP DEADBOLT C/W: 34669 KEYS BARREL
 - CHROME PLATED PIN HINGE
 - WEATHERPROOF OVERHANG
 - EPDM SEALING RUBBER
 - UNISTRUT MOUNTING SUPPORTS FOR SAIF DISCONNECTOR
 - 50 x 3mm* ANGLE ACTIVE BUSBAR MOUNTING SUPPORT
 - 35mm* RED FIBRE BUSBAR SUPPORT
 - 50 x 3mm* ANGLE NEUTRAL BUSBAR MOUNTING SUPPORT
- * SEE NOTE 3
- CUBICLE EARTH**
- REFER TO DOCUMENT P007174 'EVOENERGY POINT OF ENTRY CUBICLE - APPENDIX A' FOR POE MAIN EARTH CABLE SIZING FOR NETWORK CABLE SIZES 240mm² TO 630mm². FOR NETWORK CABLE SIZES BELOW 240mm² POE MAIN EARTH CABLE SHALL NOT BE LESS THAN 70mm² COPPER.

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Project No:				
No	Revision	Date	Checked	Approved
A	NOTES UPDATED	6/07/2020	N. Azizi	W. Cleland
B	NOTE 3 & BUSBAR DETAILS AMENDED - KV	10/12/2021	N. Azizi	W. Cleland

evoenergy

**POINT OF ENTRY (POE)
RADIAL SERVICE CUBICLE
800A TO 2000A
FREE STANDING OR WALL MOUNTED**

Scale: 1:16	Date: 3/12/2018	Sheet No: 1 of 1
Work Pack No:	File:	
Status: Current		
A3	8913-213-08	Rev B