CONSTRUCTION NOTES:-

- Cubicle constructed from 2mm zinc seal mild steel.
- Powdercoat Orange Ripple Finish
- Gland plates are 6mm switch panel.
- Cable entry/exit via top.
 Degree of protection is IP43.
- Form 4b & 4a (Tier 2) separation to IPXXB
- Board is 880mm deep.
- Switchboard is extendable on both sides.
- Labels -

General - black lettering / white background Safety Services - white lettering / red background All Safety Services to have additional label -IN THE EVENT OF FIRE, DO NOT SWITCH OFF.

BUS BAR NOTES:-

- Minimum clearances between live parts, & live parts to earth as per AS3439.1 Table 16. 500V Pollution Degree 2 Non Conductive Dry, occasional condensation 5mm.
- This switchboard is rated at 5000 amps at 80kA.
- Temperature rise calculations for Busbar are based on AS 60890 Table ZA.5 and ZA8 temperature rise of 50°C a room ambient of 40°C a micro ambient around Busbars of 55°C
- Main Busbars are supported by use of Stainless Cleats on Fibon Insulation. Type Tested to 80kA Report 1496/2.
- Vertical Busbars are supported by use of Fibon Supports Type Tested to 63kA Report 1497/1

COPPER BUSBAR CURRENT RATINGS HAVE BEEN DETERMINED BY ONE OF THE FOLLOWING METHODS:-

- ACB connections onto tags Manufacturers Busbar sizing Installation recommendations.

 Verified by DRC type test report No. 19301137 002
- Main horizontal busbar DRC temperature rise test report No. 19301137 007
- Vertical Droppers DRC temperature rise test report No. 19301137 005
- Other copper such as connection tags AS60890 Table ZA.5 & ZA.8

FINISHING PROCESS INCLUDES THE FOLLOWING:-

- Welds ground smooth, spats cleaned and scales removed.
- Scum wash all visually detected imperfections.
- 5 stage iron phosphate cleaning system.
 - Stage 1 Alkaline wash Stage 2 Cold water rinse
 - Stage 3 Phosphate wash Grease and rust removed.
 - Stage 4 Cold water rinse
 - Stage 5 Chrome rinse
- Powdercoat & oven bake at 180-200°C

						PE TEST	ΓSUMM	IARY TABL	E				
Keport Number	Vertical Bars Fault Level KA/Seconds	Horizontal Bars Fault Level KA/Seconds	Incoming Connections Outgoing Connections	Short Circuit Withstand Functional Unit MCCB Size	Arc Fault Containment 2D Functional unit MCCB Size	Temperature Rise Main Bus	Temperature Rise Distribution Bus	Temperature Rise Functional Units/Size	IP Test	Insulated bus system Horizontal and Vertical Bus	Rated Insulation	m of Separation	ses
ž				Size	Arc ZD Size	Ter Bus	Ter Dist	Fun	F	Hor Bus	Rat	Form	Notes
03448	100/1	100/1	100/1	250A/100kA	250A/100kA								ASNZS 3439
40.5/4		50/2		630A/100kA	630A/100kA	-						1	ASNZS 3439
496/1 496/2	_	50/3 80/1				-				1		+	ASNZS 3439 ASNZS 3439
97/1	50/3	80/1		100A/63kA									ASNZS 3439 ASNZS 3439
57/1	63/1	1		1007/0317									ASNZS 3439
	80/0.1	1											ASNZS 3439
197/2		63/1											ASNZS 3439
			63/1										ASNZS 3439
97/3				100A/63kA									ASNZS 3439
				160A/63kA									ASNZS 3439
				250A/63kA									ASNZS 3439
				400A/63kA	1			ļ		1	1		ASNZS 3439
07/1				630A/63kA	1001/05: :						-		ASNZS 3439
97/4					100A/63kA	-							ASNZS 3439
	-	-			160A/63kA 250A/63kA	 		1		1	1		ASNZS 3439 ASNZS 3439
					400A/63kA	 		1		1	1		ASNZS 3439 ASNZS 3439
	+		+		630A/63kA			1		1	1		ASNZS 3439 ASNZS 3439
		-			0307 4 0310 1					1			ASNZS 3439
													ASNZS 3439
97/5						4000A		1600A					ASNZS 3439
						1700A							ASNZS 3439
97/6							2274	400A					ASNZS 3439
								630A					ASNZS 3439
97/7								250A					ASNZS 3439
								160A					ASNZS 3439
								100A					ASNZS 3439
108		50/1											ASNZS 3439
007	63/1	50/4		101001 (501)						-		-	ASNZS 3439
55607C	50/1	50/1		4KWDOL/50kA								3	AS1136
	-	-		18.5KWDOL /50kA 37KWDOL /50kA						-		3	AS1136 AS1136
6608	-	-	-	37KWDOL/SUKA	37KWDOL/50kA	+						3	AS1136 AS1136
301137 001	63/1	1			STRVEDOL/SORA						1000V	1	IEC 61439
301137 002						3200A		3200A			1	4B	IEC 61439
301137 003						5700A							IEC 61439
301137 004						3200A		3200A				4B	IEC 61439
301137 005							2400A						IEC 61439
19301137 006								1000A				4B	IEC 61439
								1600A				4B	IEC 61439
301137 007						3524							IEC 61439
301137 008							105001	250A		1	1	4B	10 Functional units in Vertical Tier IEC 61
204427.000				-		-	2500A		1042	-	1		IEC 61439
301137 009	_	_		2504/6254	-	1	1	1	IP43		1	40	IEC 61439
19301137 010	+		_	250A/63kA 630A/63kA		 	-	1		1	1	4B 4B	AS/NZS 61439 AS/NZS 61439
079099 001	+			USUAJUSKA				2600A			1	7D	2600Amps 2500 amp Non Auto ACB
079099 001								3100A		1	1		3100Amps 2500 amp Non Auto ACB
062587 001								350 KVAR PFC Unit			1		IEC 61439
301495 001						1				IP XXB			IEC 61439 AS/NZS 60529
301137 021	63/1										1000V		AS/NZS 61439
301137 022						3200A		3200A		<u> </u>		4B	AS/NZS 61439
301137 023						5700A							AS/NZS 61439
301137 024						3200A		3200A				4B	AS/NZS 61439
301137 025							2400A						AS/NZS 61439
301137 026								1000A				4B	AS/NZS 61439
								1600A		1	1	4B	AS/NZS 61439
301137 027						3524		2504		1	1	140	AS/NZS 61439
301137 028	_			-	1	 	25004	250A	1	-	1	4B	10 Functional units in Vertical Tier
201127 020		+					2500A		1042	1	1		AS/NZS 61439
301137 029 301137 030		-		250A/63kA	-	-		1	IP43		+	4B	AS/NZS 61439 AS/NZS 61439
301137 030	+	-		630A/63kA	1	+	1	1	1	1	+	4B 4B	AS/NZS 61439 AS/NZS 61439