



B&R Enclosures Infinity 3G Modular Switchboard Solutions

brenclosures.com.au

About B&R Enclosures

For over 60 years, B&R Enclosures has built a reputation for excellence in the design and manufacture of electrical enclosures and integration services. B&R is trusted by some of the largest companies in the world including Boeing, Alstrom, Saudia Aramco, BHP Billiton and ABB.

As a 100% Australian, family-owned business, B&R champions the virtues of quality, service and value. Combined with our unrivalled industry and application knowledge, we are in a unique position to meet the needs of our clients.

B&R's residential and commercial range provides enclosure solutions for:

- Power Distribution
- Residential Metering
- Commercial
- Group Metering
- Home Networking
- Lighting Control; and more

Solutions range from off-the-shelf standard manufactured products, customised and assembled-to-order solutions, electrical equipment integration, and supply chain management services. B&R's design team work with clients on unique engineering challenges to provide innovative, efficient solutions delivered with short-lead times and to meet local supply authority rules and regulations.

Quality is assured with B&R's certification to ISO 9001. B&R is also accredited by the Australian Stainless Steel Development Association as a superior producer of stainless steel products, working to industry best practice. B&R's occupational health and safety management system is certified to AS/NZS 4801.



DISCLAIMER

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PRIMO RANGE

CENTRO RANGE

ECONO RANGE

Mullion

Escutcheons

DIN Rail Modules

Segregation Modules & Dividers

Switchgear Modules

Chassis Modules

Link Modules

Project Profile – Padstow Gardens

Covered Links

Uncovered Links

CT Modules

Panels

Project Profile – Aspect on Archer

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Project Profile – Steelene Warehouse

Business Overview

Since 1955, B&R has built a reputation for excellence in the design and manufacture of enclosures. Everything we have learned in that time, we've poured into our products and relationships.

B&R Enclosures was founded by Dick Bridges in 1955, specialising in sheet metal fabrication, including electrical enclosures for domestic metering applications.

With little capital but great enthusiasm for operating his own business and a determination to succeed, Dick commenced operations in his backyard in Adelaide, South Australia.

It was this family determination that has sustained B&R's growth into manufacturing plants in Brisbane, Adelaide and Sydney, 8 locations nationally and an international network of distributors.

As a 100% Australian, family-owned business, B&R champions the virtues of quality, service and value. Combined with our unrivalled industry and application knowledge, we are in a unique position to meet the needs of our clients.

B&R Enclosures encompasses four divisions: Industrial, Data ICT, Hazardous Areas and Residential Commercial. Each division focuses on the unique needs of different market segments. Together, these divisions share the strengths, resources and experience of the founding company to provide attentive customer service, innovative design and superior quality products.

Some of the largest companies around the world use B&R as a major supplier. These include BHP Billiton, Rio Tinto and the Australian government to name a few. We have enjoyed repeat business with the world's leading mining companies for over 20 years.

B&R Enclosures can offer extensive supply chain capabilities featuring supply from stock (ex our national warehouse network), supply of assembled to order solutions with short lead times, value adding services and cooperation with other suppliers to allow for integration of third party products into enclosures, racks or cabinets prior to shipment.

B&R is also experienced in arranging specialised freight, product delivery, installation and removal of packaging. We measure our service performance and can provide regular written reports if required. B&R also provides key account management and project management to ensure that we clearly understand and can anticipate the ongoing needs of our customers.

Our Vision

Our commitment to supporting the community, locally and abroad, is fundamentally grounded first and foremost in safety. Across all our projects we work to eliminate risk by ensuring that our products will both protect and maintain valuable assets but most importantly, keep people safe. With a growing plethora of electrical enclosure solutions available on the market and increasingly tough rules surrounding the safety and reliability of electrical installations, we go beyond just compliance to making safety the heart of our culture.

As a specialist manufacturer and supplier, we meet this challenge head on, providing an integrated approach to the delivery of complex projects requiring close collaboration and expertise. We proudly prioritise safety in all project planning and installation, from construction to completion. This allows B&R a reputation for excellence in providing greater certainty and value in the performance of project operations and facilities.

Our Core Values

Building Trust - We ensure that our employees (both internal and external) are trusted by customers as a partner who listens to their needs in order to meet their expectations in a reliable and consistent manner.

Commitment to Quality - We ensure we adhere consistently to standards to satisfy customer and user requirements whilst producing and providing products and services of the highest quality.

Participation - Collaboration plays an important role in generating creative thinking and problem solving.

Enthusiastic - Empowered to seek new opportunities to innovate and improve the B&R experience.

Ethical - An honorable approach underpins the core values and decision making made across all areas of the B&R business.

At B&R, we have been delivering safety for people and protection of equipment since 1955. Our products are made in Australia for Australian conditions.



Infinity 3G

B&R's Infinity 3G range is a smart, national approach to metering providing a modular solution for power distribution and metering applications up to 630Amps.

B&R's Infinity 3G range provides a national approach to power distribution and metering. Comprehensively tested and certified to bring you a product of the highest quality.

Infinity 3G is designed to provide a modular solution for commercial and residential applications up to 630Amps.

FEATURES

- Complies with all Australian Switchboard Standards.
- Meets and exceeds all National Authority Regulations for power distribution and metering applications up to 630Amps.
- Simple design to reduce errors and call backs.
- Easily assembled saving time and labour.
- Tested to IEC 61439 and AS/NZS 3439 and compliant with AS/NZS 61439 — the Australian standard for switchboards.
- Enclosures to suit all environmental conditions and are available in IP66, IP34 and IP2x.
- Metric Matrix modular grid system makes switchboard design quick and compact.
- One fixing screw fits all modules reducing assembly time.
- Hinged escutcheons improve safety during maintenance.
- Escutcheons and panels are interchangeable and allow for either left or right hinging.
- Special door hinging allows door to be left or right hinged.
- Loose supply, pre-assembled or pre-wired options to suit your time and budget.
- Manufactured from zinc coated steel, 316 stainless steel and aluminium.





**The Australian Standard in
Modular Switchboard Solutions.**

Compliance Testing & Certification

The Need for Compliance Testing & Certification

Even before functionality, safety is a major concern for any switchboard supplier. At B&R, we strive to ensure all our innovative designs bring safety to our customers as a prime focus and regard Standards as an important compliance requirement to ensure safety.

Infinity 3G is arguably the only metering switchboard system which can be shown to meet and exceed the very latest Australian and International Standards.

Switchboard Manufacturers' Responsibility

During the design and assembly of any switchboard there will be many technical decisions that need to be made to ensure design safety and switchboard reliability. Each and every application will have its unique parameters that have to be taken into account.

This specification sheet attempts to set the limits of Infinity 3G's modular approach to these designs and therefore should be considered to be the limits of application.

At all times designers, assemblers, installers and contractors must comply with the Australian 'rule of law' and therefore need to fundamentally adhere to the Wiring Rules (AS/NZS 3000). The Wiring Rules in-turn will call up auxiliary standards such as AS/NZS 61439.

AS/NZS 61439 Low-voltage switchgear and controlgear assemblies provides a comprehensive compliance requirement to which Infinity 3G has been designed. This product has been type tested by NATA approved testing Authorities. The table below shows these requirements and compliance.

Tests in accordance with IEC 61439-1 and 2 Ed 2.0 2011 and AS/NZS3439.1:2002

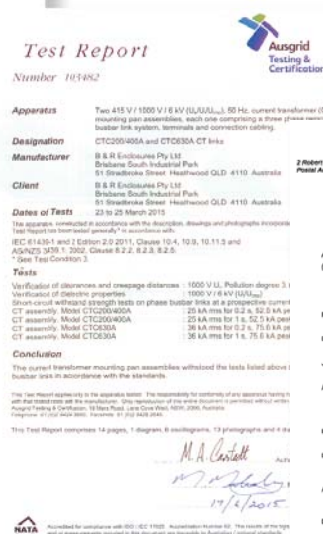
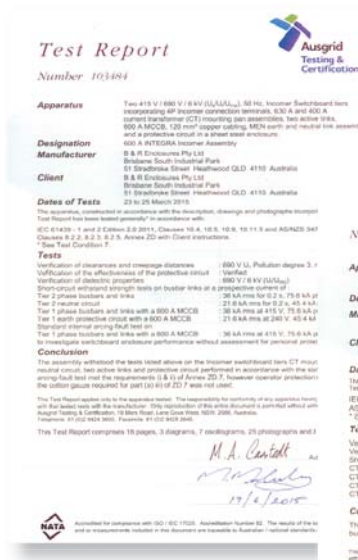
No.	Characteristics to be verified	Clause	Status / by	Compliance
1	Strength of material and parts	10.2		
1a	Resistance to corrosion	10.2.2	Passed / B&R	Zinc coated steel resists corrosion to 1000hrs neutral salt spray testing.
1b	Thermal stability	10.2.3.1	Passed / B&R	Metal enclosures have no thermal stability issues
1c	Resistance to abnormal heat & fire due to internal electric effects.	10.2.3.2	Passed / Plus ES	Internal electric effects tested with arc fault testing and high energy breaker tripping at 36kA.
1d	Resistance to ultra-violet (UV) radiation	10.2.4	Passed / B&R	Powder-coat paint incorporates UV stabilization.
1e	Lifting	10.2.5	Passed / B&R	Exceeds requirements.
1f	Mechanical impact	10.2.6	Passed / B&R	Exceeds IK10.
1g	Marking	10.2.7	Assembler	Markings to be in accordance with AS/NZS 61439 generally completed by the ASSEMBLY manufacturer.
2	Degree of Protection	10.3	Passed / SIMTARS (IP66)	Additionally, the ASSEMBLY manufacturer must ensure compliance if the basic enclosure has been compromised by for example installing vents or drilling holes.
3	Clearances	10.4	Passed / Plus ES	The ASSEMBLY manufacturer must ensure compliance by ensuring adequate clearances are maintained.
4	Creepage distances	10.4	Passed / Plus ES	The ASSEMBLY manufacturer must ensure compliance by ensuring adequate creepages are maintained.
5	Protection against electric shock and integrity of protective circuits:	10.5		
5a	Effective continuity between the exposed conductive parts of the ASSEMBLY and the protective circuit.	10.5.2	Passed / Plus ES	Passed AUSGRID
5b	Short-circuit withstand strength of the protective circuit	10.5.3	Passed / Plus ES	Passed AUSGRID
6	Incorporation of switching devices and components	10.6	Assembler	The ASSEMBLY manufacturer and DESIGNER must ensure compliance.
7	Internal electrical circuits and connections	10.7	Assembler	The ASSEMBLY manufacturer and DESIGNER must ensure compliance.
8	Terminals for external conductors	10.8	Assembler	The ASSEMBLY manufacturer and DESIGNER must ensure compliance.
9	Dielectric properties:	10.9		
9a	Power-frequency withstand voltage	10.9.2	Passed / Plus ES	The ASSEMBLY manufacturer must ensure compliance.
9b	Impulse withstand voltage	10.9.3	Passed / Plus ES	The ASSEMBLY manufacturer must ensure compliance.
10	Temperature-rise limits	10.1	Designer / Assembler	Switchboard designer must calculate temperature rise as each design may be different. The installation manual gives a method to do this or conversely AS/NZS 60890 can be used from first principles.
11	Short-circuit withstand strength	10.11	Passed / Plus ES	Passed 36kA, see full specification.
12	Electromagnetic compatibility (EMC)	10.12	Designer / Assembler	Dependent on equipment installed and therefore electronic equipment incorporated in ASSEMBLIES shall comply with the immunity requirements of the relevant product or generic EMC standard. The ASSEMBLY manufacturer shall obtain from the device and or component manufacturer the specific performance criteria of the product based on the acceptance criteria given in the relevant product standard.
13	Mechanical operation	10.13	Designer / Assembler	Mechanical operation relates to situations where switchgear operation has been changed beyond their original approval. Therefore switchboard assembler must ensure compliance if modifications have been made.

Specifications & Test Reports



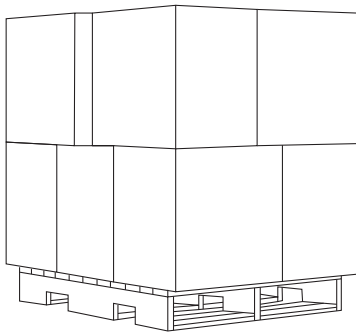
Degree of Protection	Enclosure Series			Units
	Econo IP2X	Centro IP34	Primo IP66	
Rated voltage (Un)	690	690	690	V
Rated operational voltage (Ue)	480	480	480	V
Rated insulation voltage (Ui)	690	690	690	V
Rated impulse withstand voltage (Uimp)	6000	6000	6000	V
High voltage withstand	3500	3500	3500	V
Power frequency withstand voltage	2000	2000	2000	V
Rated current of the ASSEMBLY (InA)	630	630	630	A
Rated peak withstand current (Ipk)	50	50	50	kA
Rated short-time withstand current (Icw)	36	36	36	kA
Rated conditional short-circuit current (Icc)	36	36	36	kA
Rated frequency (fn)	50	50	50	Hz
Pollution degree	3	3	3	
Type of earthing system	MEN	MEN	MEN	
Mechanical impact protection	IK10	IK10	IK10	
Clearance	>14	>14	>14	mm
Creepage	>14	>14	>14	mm
Protective circuit	<25	<25	<25	mΩ

Individual modules and switchgear may have ratings less than the above and due consideration needs to be made when compiling a specification using these modules and switchgear.



Supply Options

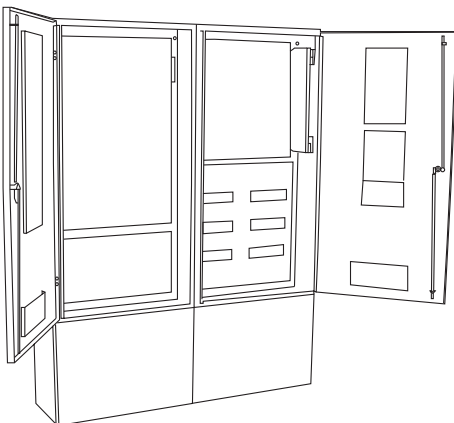
Providing a customisable, modular switchboard system, the Infinity 3G range is the ultimate in versatility. Complying with all State Supply Authority Rules and Regulations, Infinity 3G is suitable for multiple tenancy and domestic and commercial installations up to 630A.



1

Option 1: Loose Supply

- Supplied loose
- Contractor build
- General arrangement drawing supplied



2

Option 2: Pre-Assembled

- Save on assembly time
- General arrangement drawing supplied



3

Option 3: Pre-Assembled + Pre-Wired

- Switchgear options
- Plug and play
- 100% fit-for-purpose, ready for installation
- Engineering drawing supplied

Pre-Assembled Infinity 3G



At B&R, we have created a range of pre-assembled modular switchboard solutions to suit supply authority rules and regulations.

B&R's Infinity 3G pre-assembled range provides customers with the ability to order a standard design that is available with short lead times. This means that our customers are provided with smarter, more efficient designs that comply with the various state Authority Rules and Regulations.

These standard, pre-assembled designs are supplied metalware only off-the-shelf. Our team of designers and engineers can assist you to customise with functional devices to suit the installation.

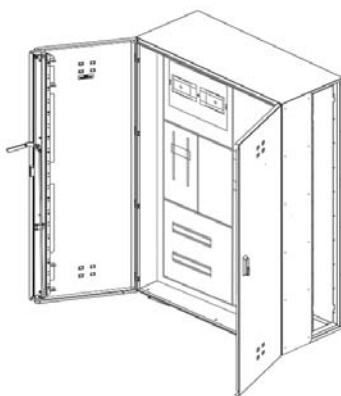
Our electrical integration team are available to install wiring and functional devices making this product 100% fit-for-purpose, ready for installation on site.

Solutions are available in the following states:

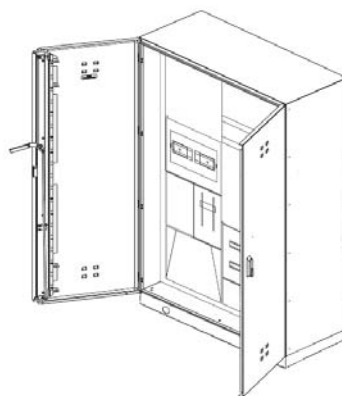
- Queensland
- New South Wales
- Victoria
- South Australia

Pre-Assembled Infinity 3G solutions are suitable for installation in Multi-Tenancy residential applications as they provide multiple metering positions. Each state solution has been designed with a standard configuration. Go to pages 10-13 for meter panel sizes.

For more information contact your local B&R sales representative to discuss your requirements.



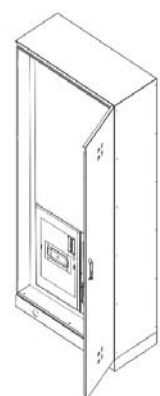
TGXQ10M1P
Queensland (page 10)



TGXN12M1P
New South Wales (page 11)



TGXV12M1P
Victoria (page 12)



TGXS11M1P
South Australia (page 13)



COMING SOON!

Pre-Assembled Single Tenancy
CT Metered Solutions.

Pre-Assembled Infinity 3G

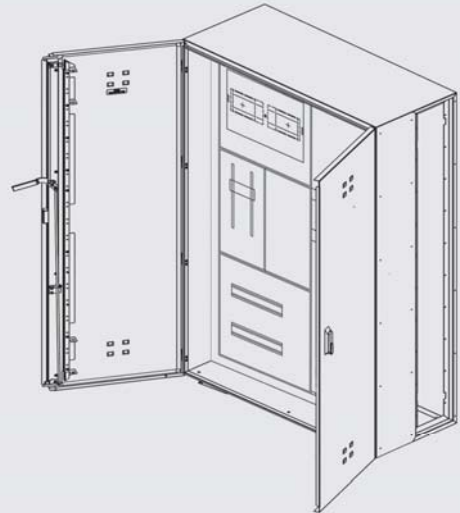
Queensland



- Robust construction to ensure long service life.
- Wide double door enclosures have no central mullion allowing full width accessibility.
- Swing handle comes with 45mm cylinder keyed to 92268.
- Manufactured from 1.6mm thick zinc coated steel.
- Powdercoated Light Grey RAL7035.

Comes standard with:

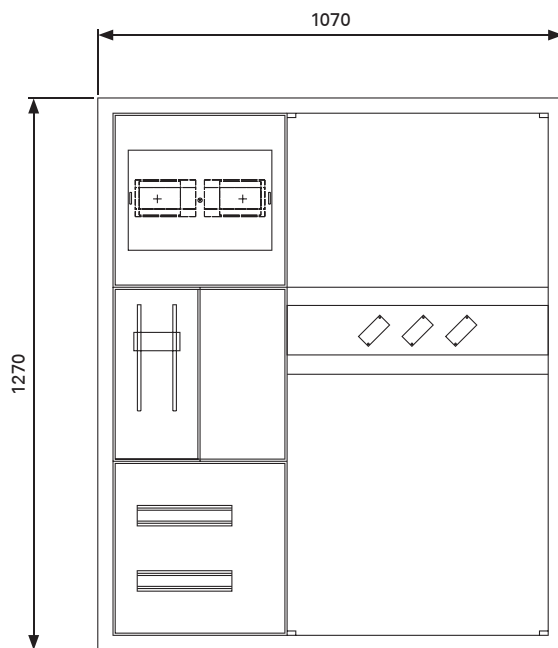
- Large 3mm aluminium gland plate
- Stainless steel door hinges
- Recessed swing handle lock (keyed to 92268)
- Document holder
- 3-point locking
- Top and bottom mullion rail



ORDERING GUIDE

Part Number	External Dimensions (mm)			Maximum Incomer MCCB	Maximum Incoming Cable	Meter Panel (mm)			
	Height	Width	Depth			Height	Width	Sub Main	Mounting
TGXQ10M1P	1270	1070	450	Schneider 250A	95mm ²	1200	600	24-Pole	Wall

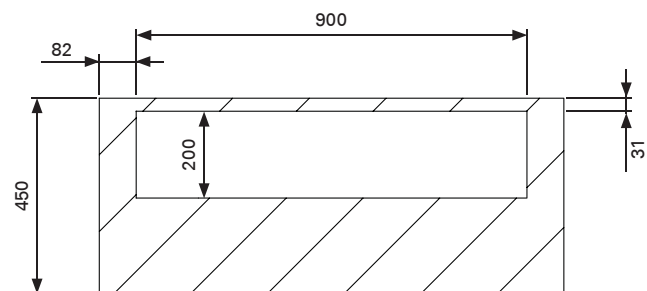
TECHNICAL DRAWINGS



Front View

Inclusions:

LK13C35	LINK: 13 Terminals Clear Max 35mm
LK400A13C150	LINK: 400A 13 Terminals Clear Max 150mm ² (Qty 3)
TGBPRM12H10W	Primo Double Door 1270x1070 Enclosure
TGDL24P0404	24-Pole, 4x4 DIN Module (10/18)
TGEBK0404	4x4 Symmetrical Blank Escutcheons
TGLA12A0206	125A covered rear active link bracket
TGLM25A0402	250A brass MEN link bars
TGMC25A0404/C	Sch:- Fits 2x CVS/NSX.INS 160/250A (3P)
TGP1206	12x6 Plain black panel
TGPDF12	Double hinged flap for 12H panel
TGYMUL04	Mullion 4 Module wide 50mm (Qty 3)
TGYMUL12	Mullion 12 Module wide 50mm
TGYSC12H	Side cover for all 12H Primo enclosures



Bottom View

Pre-Assembled Infinity 3G

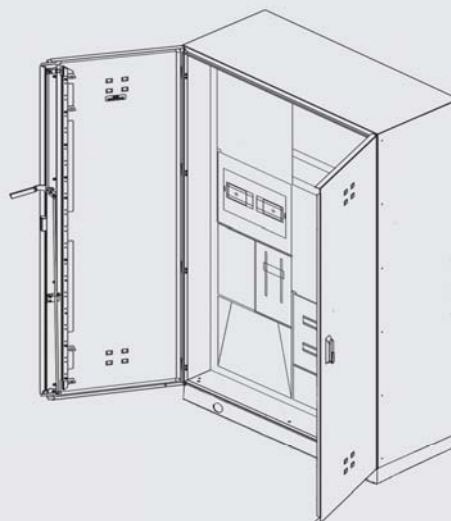
New South Wales



- Robust construction to ensure long service life.
- Wide double door enclosures have no central mullion allowing full width accessibility.
- Swing handle comes with 45mm interchangeable cylinders for Authority keying.
- Manufactured from 1.6mm thick zinc coated steel.
- Powdercoated Light Grey RAL7035.

Comes standard with:

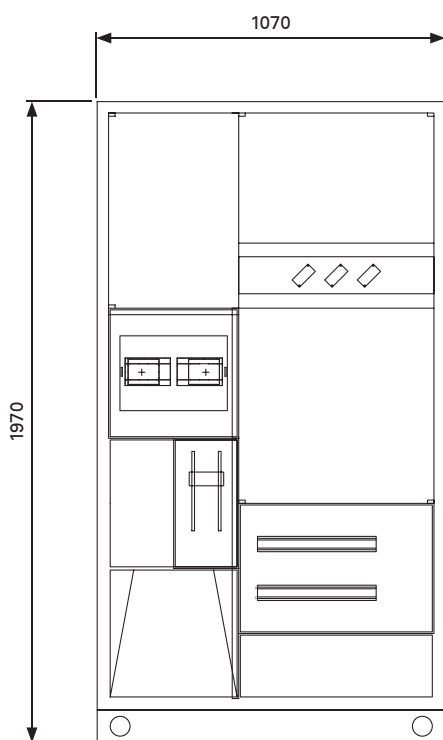
- Large 3mm aluminium gland plate
- Stainless steel door hinges
- Recessed swing handle lock (keyed NSW Utilities)
- Document holder
- 3-point locking
- Top and bottom mullion rail



ORDERING GUIDE

Part Number	External Dimensions (mm)			Maximum Incoming MCCB	Maximum Incoming Cable	Meter Panel (mm)			
	Height	Width	Depth			Height	Width	Sub Main	Mounting
TGXN12M1P	1970	1070	450	Schneider 250A	95mm ²	1200 600	600 400	40-Pole	Plinth

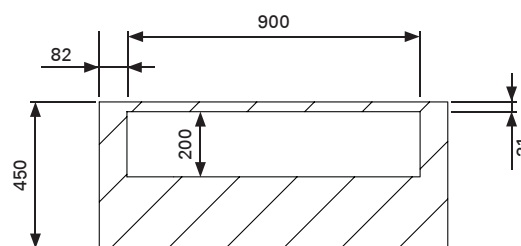
TECHNICAL DRAWINGS



Front View

Inclusions:

LK400A13C150	LINK: 400A 13 Terminals Clear Max 150mm ² (Qty 3)
LK400A7C150	LINK: 400A 7 Terminals Clear Max 150mm ²
TGBPRM18H10W	Primo Double Door 1870x1070 Enclosure
TGDL40P0406	40-Pole, 4x6 DIN Module (18/36)
TGEBK0206	2x6 Symmetrical Blank Escutcheons
TGEBK0404	4x4 Symmetrical Blank Escutcheons
TGECC0404	4x4 Incomer angled cable cover
TGLA12A0206	125A covered rear active link bracket
TGLM25A0402	250A brass MEN link bars
TGMC25A0404/C	Sch:- Fits 2x CVS/NSX.INS 160/250A (3P)
TGP0604	6x4 Plain black panel
TGP1206	12x6 Plain black panel
TGPDF06	Double hinged flap for 6H panel
TGPDF12	Double hinged flap for 12H panel
TGQPRM01H10W/1	Primo Galvanised Plinth 10W enclosure
TGYDV04	Size 4 Segregation divider with edge protector (Qty 4)
TGYMUL04	Mullion 4 Module wide 50mm (Qty 4)
TGYMUL06	Mullion 12 Module wide 50mm (Qty 2)
TGYMUL18	Mullion 18 Module wide 50mm
TGYSC18H	Side cover for all 18H Primo enclosures



Bottom View

Pre-Assembled Infinity 3G

Victoria



- Robust construction to ensure long service life.
- Full width enclosure with no centre mullion.
- Manufactured from 1.2mm zinc coated steel.
- Powdercoated Light Grey RAL7035.

Comes standard with:

- 3mm aluminium gland plate
- Stainless steel door hinges
- Recessed padlockable swing handle
- Document holder
- 3-point locking
- Top and bottom mullion rail

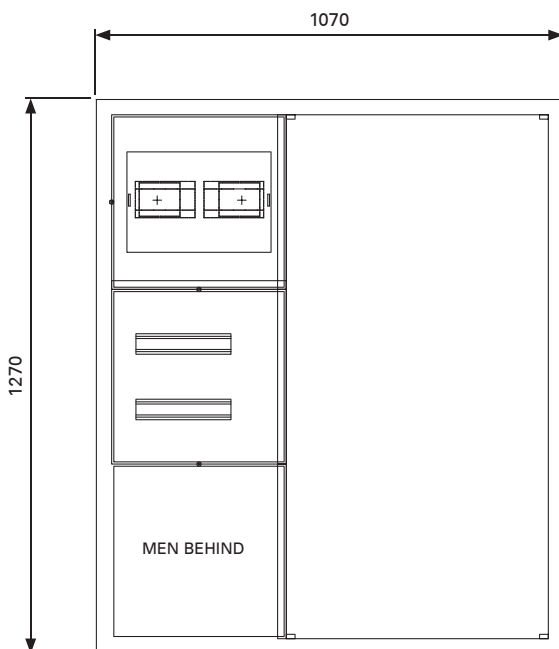


ORDERING GUIDE

Part Number	External Dimensions (mm)			Maximum Incoming MCCB	Maximum Incoming Cable	Meter Panel (mm)		Sub Main	Mounting
	Height	Width	Depth			Height	Width		
TGXV12M1P	1270	1070	450	Schneider 160A and/or SPD	50mm ²	1200	600	24-Pole	Wall or 600mm Access Plinth*

* Access plinths sold separately

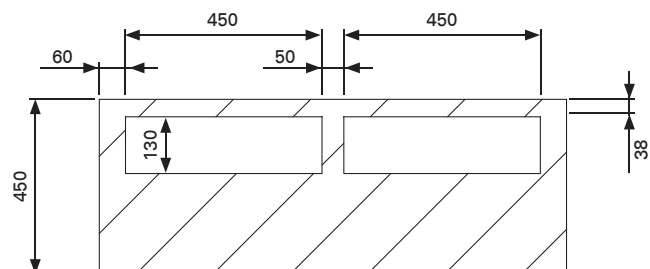
TECHNICAL DRAWINGS



Front View

Inclusions:

LK400A7C150	LINK: 400A 7 Terminals Clear Max 150mm ²
TGBCEN12H10W	Centro Double door 1270x1070 Enclosure
TGDL24P0404	24-Pole, 4x4 DIN Module (10/18)
TGEBK0404	4x4 Symmetrical Blank Escutcheons
TGMC25A0404/C	Sch:- Fits 2x CVS/NSX.INS 160/250A (3P)
TGP1206	12x6 Plain black panel
TGPDF12	Double hinged flap for 12H panel
TGYDV04	Size 4 Segregation divider with edge protector (Qty 4)
TGYMUL04	Mullion 4 Module wide 50mm (Qty 2)
TGYMUL12	Mullion 12 Module wide 50mm



Bottom View

Pre-Assembled Infinity 3G

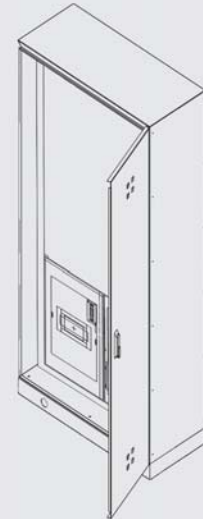
South Australia



- Robust construction to ensure long service life.
- Swing handle comes with 45mm interchangeable cylinders for Authority keying.
- Manufactured from 1.6mm thick zinc coated steel.
- Powdercoated Light Grey RAL7035.

Comes standard with:

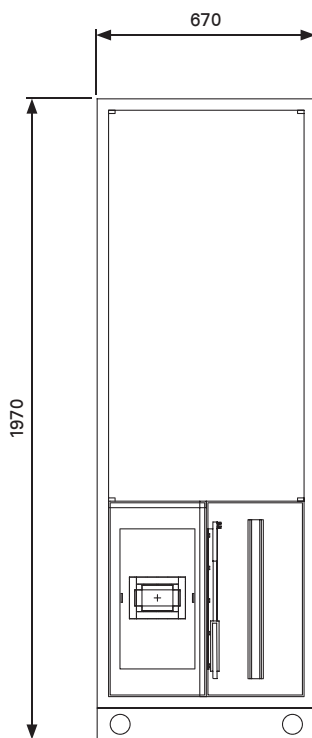
- Large 3mm aluminium gland plate
- Stainless steel door hinges
- Recessed padlockable swing handle lock
- Document holder
- 3-point locking
- Top and bottom mullion rail



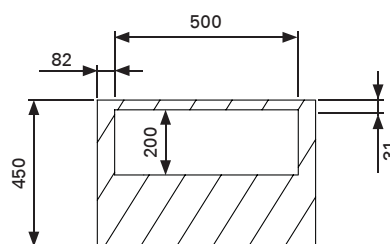
ORDERING GUIDE

Part Number	External Dimensions (mm)			Maximum Incoming MCCB	Maximum Incoming Cable	Meter Panel (mm)			
	Height	Width	Depth			Height	Width	Sub Main	Mounting
TGXS11M1P	1970	670	450	Schneider 250A	95mm ²	1200	600	27-Pole	Plinth

TECHNICAL DRAWINGS



Front View



Bottom View

Inclusions:

LK400A7C150	LINK: 400A 7 Terminals Clear Max 150mm ²
TGBPRM18H06W	Primo Double Door 1870x1070 Enclosure
TGD27P0603	27-Pole, 6x3 DIN Module (excludes E&N)
TGD27PEN	E&N (10/18) link mullion
TGMC0603/C	Sch:- fits, 1xCVS/NSX/INS switchgear (3P)
TGP1206	12x6 Plain black panel
TGPDF12	Double hinged flap for 12H panel
TGQPRM01H06W/1	Primo Galvanised Plinth 6W enclosure
TGYDV03	Size 3 Segregation divider with edge protector
TGYDV06	Size 6 Segregation divider with edge protector
TGYMUL06	Mullion 12 Module wide 50mm
TGYSC18H	Side cover for all 18H Primo enclosures

Primo Range



- Robust construction to ensure long service life.
- Wide double door enclosures have no central mullion allowing full width accessibility.
- Special door hinging allows field reversible doors to be left or right hinged.
- Full height open sides allow trouble-free direct baying of enclosures (side covers to be purchased separately).
- Swing handle comes with 45mm interchangeable cylinders for Authority keying.
- Manufactured from 1.6mm thick zinc coated steel, 1.5mm thick 316 stainless steel or 2mm thick aluminium.

Comes standard with:

- Large 3mm aluminium gland plate
- Stainless steel door hinges
- Recessed swing handle lock (keyed 92268)
- Document holder
- 3-point locking
- Top and bottom mullion rail



ROBUST CONSTRUCTION

Top and back are made from one piece of material improving environmental performance within external applications.

BAYABLE

Open side panels ensure simple and easy baying of enclosures to create larger metering enclosure solutions.

LEFT OR RIGHT

Special door hinging allows field reversible doors to be left or right hinged (single door version only, example not shown).

3-POINT LOCKING

Three point locking system ensures IP66 door seal whilst also reducing vandalism risk.

FIP GASKET

No memory, formed in place, no seam gasket technology provides superior sealing system for long-life.

DOOR STAY

Robust door stay holds door open, improving safety.

REAR RAIL

Rear rail allows mullion to be fitted at the rear for cable management according to AS/NZS 3000.

STAINLESS STEEL HINGE

100% high grade 316 stainless steel hinges ensure trouble-free operation and long life.

DOOR LOCK

- New low profile lever handle locking provides for factory assembled construction and quality.
- Provision for Authority key barrel (45mm)
- Keyed to 92268 as standard
- Padlock version can be purchased as an optional accessory.

A4 DOCUMENT HOLDER

Large A4 document holder allows for complete switchboard documentation in compliance with AS/NZS 3000.

GLAND PLATE

Large 3mm aluminium gland plate supplied as standard.

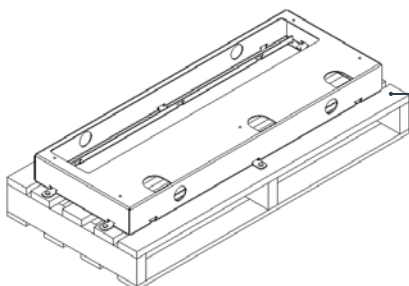
ORDERING GUIDE

Part Number			Modular Size (dm)		External Dimensions (mm)			
Zinc coated steel	316 stainless steel	Aluminium	Height	Width	Height	Width	Depth	Double Door
TGBPRM12H06W	TGBPRM12H06W/S [▲]	TGBPRM12H06W/A [▲]	12	6	1270	670	450	
TGBPRM12H10W	TGBPRM12H10W/S [▲]	TGBPRM12H10W/A [▲]	12	10	1270	1070	450	•
TGBPRM18H06W	TGBPRM18H06W/S [▲]	TGBPRM18H06W/A [▲]	18	6	1870	670	450	
TGBPRM18H10W	TGBPRM18H10W/S [▲]	TGBPRM18H10W/A [▲]	18	10	1870	1070	450	•
TGBPRM20H06W	TGBPRM20H06W/S [▲]	TGBPRM20H06W/A [▲]	20	6	2070	670	450	
TGBPRM20H10W	TGBPRM20H10W/S [▲]	TGBPRM20H10W/A [▲]	20	10	2070	1070	450	•

[▲] Available on request

ACCESSORIES

Product	Part Number	Description	External Dimensions (mm)			
			Height	Width	Depth	To suit enclosure sizes
Hot rolled galvanised plinths (black)	TGQPRM01H06W/1	For 1 enclosure	100	670	430	6W
	TGQPRM01H10W/1		100	1070	430	10W
	TGQPRM01H12W/2	For 2 enclosures	100	1340	430	6W + 6W
	TGQPRM01H16W/2		100	1740	430	10W + 6W
	TGQPRM01H18W/3	For 3 enclosures	100	2010	430	6W + 6W + 6W
Side Covers	TGYSC12H	For all steel Primo enclosures (Pair)	–	–	–	12H
	TGYSC18H		–	–	–	18H
	TGYSC20H		–	–	–	20H
	TGYSC12H/S	For all stainless steel Primo enclosures (Pair)	–	–	–	12H
	TGYSC18H/S		–	–	–	18H
	TGYSC20H/S		–	–	–	20H
	TGYSC12H/A	For all aluminium Primo enclosures (Pair)	–	–	–	12H
	TGYSC18H/A		–	–	–	18H
	TGYSC20H/A		–	–	–	20H
Swing handle	TGYPL	Padlockable	165	30	60	All
	TGYPLK	Padlock and key lockable (1/2 Euro barrel re-used from enclosure)	165	30	60	
Keys	TGYUKNSW	Key Assa Abloy NSW Utilities	–	–	–	All
	TGYUKQLD	Key Assa Abloy QLD Utilities	–	–	–	
	TGYUKSA	Key Assa Abloy SA Utilities (2 keys)	–	–	–	
	TGYUKVIC	Key Assa Abloy VIC Utilities (1 key)	–	–	–	
Locks	TGYULNSW	Lock Assa Abloy Euro Cylinder NSW Utilities	–	–	–	All
	TGYULQLD	Lock Assa Abloy Euro Cylinder QLD Utilities	–	–	–	
	TGYULSA	Lock Assa Abloy Euro Cylinder SA Utilities	–	–	–	
	TGYULVIC	Lock Assa Abloy Euro Cylinder VIC Utilities	–	–	–	



GALVANISED PLINTH

- 50mm \varnothing holes allow pipe to be used for slinging during installation.
- Corrosion proof fully galvanised rigid 3mm sheet steel plinth.
- Plinth comes pre-fitted with pallet for easy transportation and stability.
- Single sheet steel construction provides superior rigidity and strength.
- Mounting brackets allow securing of plinth beyond the perimeter of the enclosures.

Centro Range



- Robust construction to ensure long service life.
- Full width enclosure with no centre mullion.
- Special door hinging allows field reversible doors to be left or right hinged.
- Manufactured from 1.2mm zinc coated steel.

Comes standard with:

- 3mm aluminium gland plate
- Stainless steel door hinges
- Recessed swing handle lock (keyed 92268)
- Document holder
- 3-point locking
- Top and bottom mullion rail



NO MULLION DOUBLE DOOR

Features an innovative design to achieve IP34 without the use of central mullion. This allows for complete access without obstruction.

ROBUST CONSTRUCTION

Top and back are made from one piece of material improving environmental performance within external applications.

LEFT OR RIGHT

Special door hinging allows field reversible doors to be left or right hinged (single door version only, example not shown).

3-POINT LOCKING

Three point locking system ensures IP34 door seal whilst also reducing vandalism risk.

AESTHETIC DESIGN

Bevel edged doors, neutral colour and plinth cover with no visible mounting holes provides a professional enclosure system.

STAINLESS STEEL HINGE

100% high grade 316 stainless steel hinges ensure trouble-free operation and long life.

DOOR LOCK

- New low profile lever handle locking provides for factory assembled construction and quality.
- Provision for Authority key cylinder (45mm).
- Keyed to 92268 as standard.
- Padlock version can be purchased as an optional accessory.

A4 DOCUMENT HOLDER

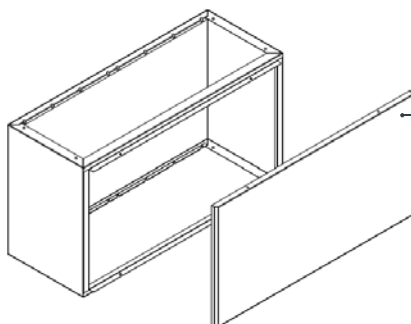
Large A4 document holder allows for complete switchboard documentation in compliance with AS/NZS 3000.

ORDERING GUIDE

Part Number	Modular Size (dm)		External Dimensions (mm)			Double Door
	Height	Width	Height	Width	Depth	
TGBCEN12H06W	12	6	1270	670	400	
TGBCEN12H10W	12	10	1270	1070	400	•
TGBCEN18H06W	18	6	1870	670	400	
TGBCEN18H10W	18	10	1870	1070	400	•

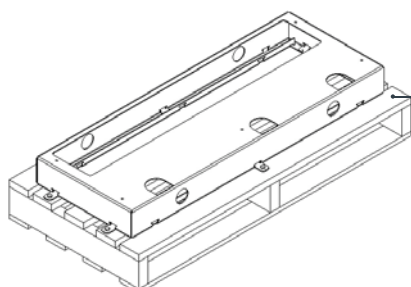
ACCESSORIES

Product	Part Number	Description	Dimensions (mm)			TGBCEN12H06W	TGBCEN12H10W	TGBCEN18H06W	TGBCEN18H10W
			Height	Width	Depth				
Raised access plinths	TGQCEN06H06W	6 high x 6 wide	600	670	400	•			
	TGQCEN06H10W	6 high x 10 wide	600	1070	400		•		
Hot rolled galvanised plinths (black)– includes timber skid attached	TGQCEN01H06W	1 high x 6 wide	100	670	400	•		•	
	TGQCEN01H10W	1 high x 10 wide	100	1070	400		•		•
Swing handle	TGYPL	Padlockable	165	30	60	•	•	•	•
	TGYPLK	Padlock and key lockable (1/2 Euro barrel re-used from enclosure)	165	30	60	•	•	•	•
Keys	TGYUKNSW	Key Assa Abloy NSW Utilities	–	–	–	•	•	•	•
	TGYUKQLD	Key Assa Abloy QLD Utilities	–	–	–	•	•	•	•
	TGYUKSA	Key Assa Abloy SA Utilities (2 keys)	–	–	–	•	•	•	•
	TGYUKVIC	Key Assa Abloy VIC Utilities (1 key)	–	–	–	•	•	•	•
Locks	TGYULNSW	Lock Assa Abloy Euro Cylinder NSW Utilities	–	–	–	•	•	•	•
	TGYULQLD	Lock Assa Abloy Euro Cylinder QLD Utilities	–	–	–	•	•	•	•
	TGYULSA	Lock Assa Abloy Euro Cylinder SA Utilities	–	–	–	•	•	•	•
	TGYULVIC	Lock Assa Abloy Euro Cylinder VIC Utilities	–	–	–	•	•	•	•



RAISED PLINTHS

- High performance galvanised steel ensures corrosion-free operation.
- Vandal resistant front cover with no visible mounting points.
- Raising plinths only used for 12dm high enclosures systems.



GALVANISED PLINTH

- 50mm ø holes allow pipe to be used for slinging during installation.
- Corrosion proof fully galvanised rigid 3mm sheet steel plinth.
- Plinth comes pre-fitted with pallet for easy transportation and stability.
- Single sheet steel construction provides superior rigidity and strength.
- Mounting brackets allow securing of plinth beyond the perimeter of the enclosures.

Econo Range



- Robust construction to ensure long service life.
- Frame system clips together to the desired configurations.
- Wide selection of top, bottom pair and side pair (set of 2) that can have either closed (blank) or opening (access) features allowing most combinations to meet application demands.
- Manufactured from 1.6mm galvanised steel.



SIMPLE FRAME

Frame system simply clips together to suit the desired configurations.

SIDE BLANK

BOTTOM ACCESS

EARTH STUD

M10 stud provides ample earthing connection points to ensure compliance with Wiring Rules.

INTERNAL RAILS

The 4D deep frame has internal rails to allow for equipment mounting.

TOP BLANK

CORNER SNAP CLIPS

Innovative corner section allows simple clipping together ensuring squareness and rigidity.

SIDE ACCESS

Allows baying together of frames.

BACK SYSTEM

- Bracket allows accessible mounting point externally to frame.
- Modular back system provides multiple solutions and includes joiners.
- Backs are used to comply with building code fire ratings when not mounted to a concrete wall.



The frame is symmetrical allowing it to be rotated 90° once assembled to achieve other size configurations. For example a 12H x 14W can become 14H x 12W simply by rotating.

ORDERING GUIDE

Product	Part Number	Description (Pair)	Modular Size (dm)		External Dimensions (mm)		
			Height	Width	Height	Width	Depth
Frame Access-Blank Side (Pair)	TGFAB06H02D	1 x Access 1 x Blank	6		600		200
	TGFAB10H02D		10		1000		200
	TGFAB12H02D		12		1200		200
	TGFAB18H02D		18		1800		200
Frame Blank-Blank Side (Pair)	TGFBB06H02D	2 x Blank	6		600		200
	TGFBB10H02D		10		1000		200
	TGFBB12H02D		12		1200		200
	TGFBB18H02D		18		1800		200
Frame Access-Blank Top/Bottom (Pair)	TGFAB06W02D	1 x Access 1 x Blank		6		600	200
	TGFAB10W02D			10		1000	200
	TGFAB12W02D			12		1200	200
	TGFAB14W02D			14		1400	200
	TGFAB16W02D			16		1600	200
	TGFAB18W02D			18		1800	200
Frame Blank-Blank Top/Bottom (Pair)	TGFBB06W02D	2 x Blank		6		600	200
	TGFBB10W02D			10		1000	200
	TGFBB12W02D			12		1200	200
	TGFBB18W02D			18		1800	200
Frame Blank-Blank Side (Pair)	TGFBB06H04D	2 x Blank	6		600		400
	TGFBB10H04D		10		1000		400
Frame Access-Rail Top/Bottom (Pair)	TGFAR06W04D	1 x Access Top / Bottom Rails		6		600	400
	TGFAR10W04D			10		1000	400
	TGFAR12W04D			12		1200	400
	TGFAR14W04D			14		1400	400
	TGFAR16W04D			16		1600	400
	TGFAR18W04D			18		1800	400
Frame Module Back (Includes joiner)	TGFBK06H04W	Each includes joiners that are used for building fire ratings.	6	4	600	400	
	TGFBK10H04W		10	4	1000	400	
	TGFBK12H04W		12	4	1200	400	
	TGFBK18H04W		18	4	1800	400	
	TGFBK06H06W		6	6	600	600	
	TGFBK10H06W		10	6	1000	600	
	TGFBK12H06W		12	6	1200	600	
	TGFBK18H06W		18	6	1800	600	

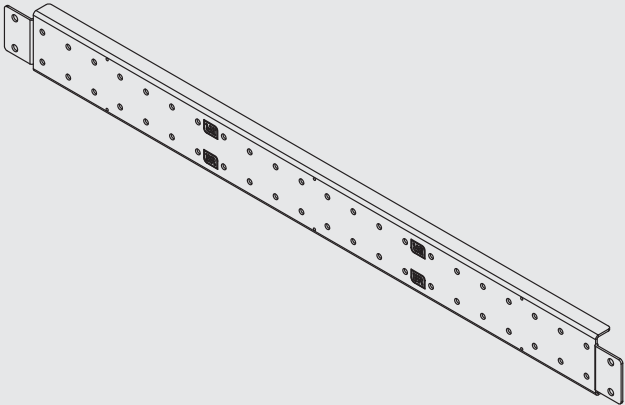
ACCESSORIES

Part Number	Description
TGFWBRK	Wall mounting bracket (set of 4)
TGY250M5	M5 Hex head taptite screws (Bag of 250)
TGY1000M5	M5 Hex head taptite screws (Bag of 1000)

Mullion



- Designed to create module spaces.
- Single width mullion is used throughout.
- Manufactured from 1.6mm zinc coated steel.



ORDERING GUIDE

Part Number	Module Size (dm)	Width (mm)
TGYMUL02	2	50
TGYMUL04	4	50
TGYMUL06	6	50
TGYMUL08	8	50
TGYMUL10	10	50
TGYMUL12	12	50
TGYMUL14	14	50
TGYMUL16	16	50
TGYMUL18	18	50

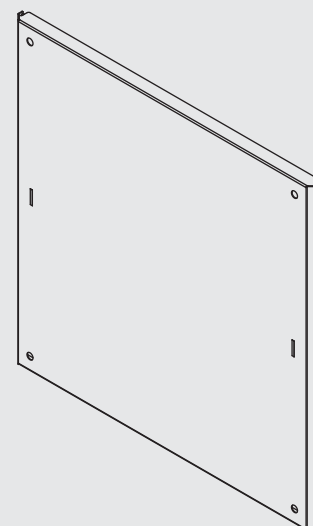


To improve rigidity, use the longest length possible. Multiple short mullions joined end to end are not as robust as a single longer mullion.

Escutcheons



- Unique design, multi-function escutcheon provides multiple options including:
 - Left or right hinged
 - Sealable
 - Padlockable (kit required, sold separately)
 - Fixed (kit required, sold separately)
- Specially designed tubenuts ensure earthing continuity of escutcheon.
- Bevelled edges provide a professional finish.
- Manufactured from 1.2mm thick zinc coated steel.



ORDERING GUIDE

Type	Part Number	Module Size (dm)	
		Height	Width
Blank Escutcheon	TGEBK0106	1	6
	TGEBK0202	2	2
	TGEBK0204	2	4
	TGEBK0206	2	6
	TGEBK0306	3	6
	TGEBK0402	4	2
	TGEBK0404	4	4
	TGEBK0406	4	6
	TGEBK0601	6	1
	TGEBK0602	6	2
	TGEBK0603	6	3
	TGEBK0604	6	4
	TGEBK0606	6	6
	TGEBK0802	8	2
	TGEBK0804	8	4
	TGEBK0806	8	6
	TGEBK1006	10	6
	TGEBK1206	12	6
Cable Zone Cover	TGECC0404	4	4
	TGECC0406	4	6
	TGECC0410	4	10

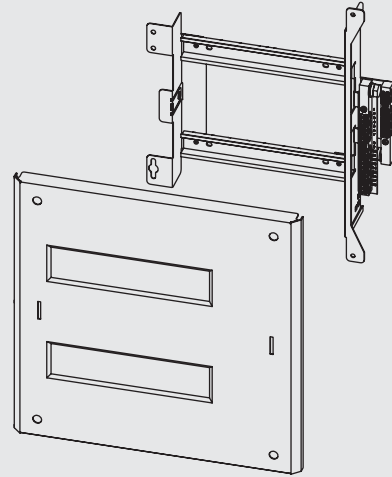
ACCESSORIES

Part Number	Description
TGYFXEK	Fixed escutcheon mounting kit (includes an additional set of brackets and tubenuts)
TGYEPLK	Escutcheon padlock brackets to suit all escutcheons (Bag of 5)
TGY250M5	M5 Hex head taptite screws (Bag of 250)
TGY1000M5	M5 Hex head taptite screws (Bag of 1000)
TGY10ESB	M5 extended sealing bolt (Bag of 10)

DIN Rail Modules

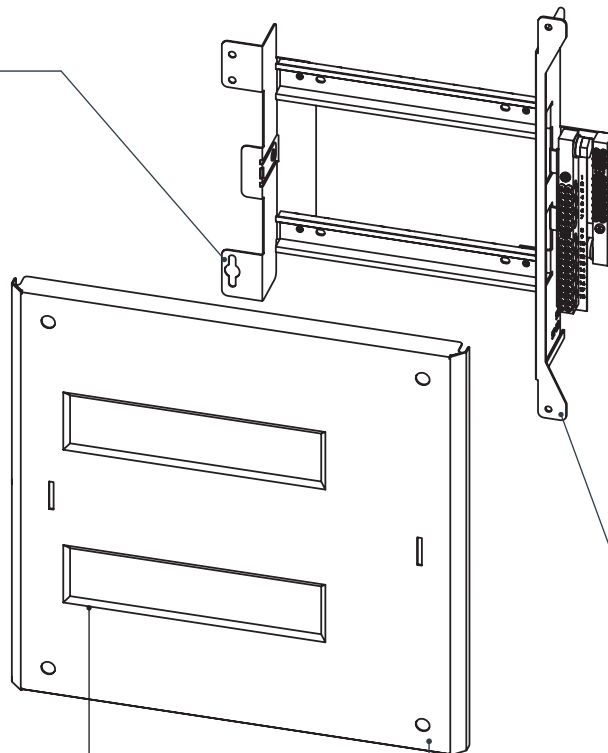


- Keyhole attachment points allow for a one person installation and assembly operation.
- Unique design, multi-function escutcheon provides multiple options including:
 - Left and right hinged
 - Sealable
 - Padlockable
 - Fixed (kit required, sold separately)
- Large link bar tunnels to accept up to 25mm².
- Manufactured from
 - 1.6mm thick galvanised steel (internals)
 - 1.2mm thick zinc coated steel (escutcheon)
- Unpainted (internals) or powdercoated Light Grey RAL7035 (escutcheon).



KEYHOLES

Keyholes allow easy placement of modules into enclosures without having to have a third hand.



SAFETY

All exposed edges are folded back.

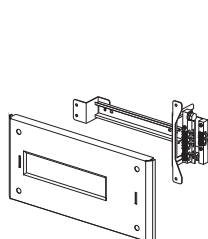
SAFETY

Bevelled DIN cutout area provides additional rigidity.

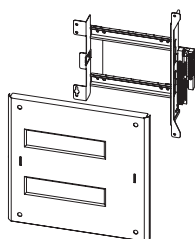
FIXINGS

Unique fixing tubenut remains captive to escutcheon whilst also ensuring continuous earthing.

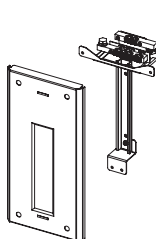
DIN Rail Modules



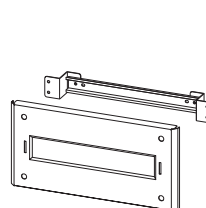
TGD12P0204



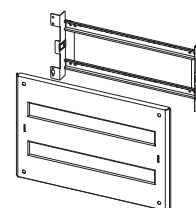
TGD24P0404



TGD12P0402



TGD16P0204

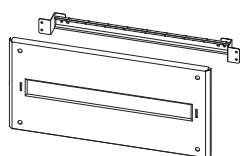


TGD54P0406

DIN Rail Module

Includes earth & neutral links.

Part Number	No. of Poles	Links		Module Size	
		Earth Poles	Neutral Links	Height	Width
TGD12P0204	12	5	10	2	4
TGD12P0402	12	5	10	4	2
TGD24P0404	24	10	18	4	4
TGD40P0406	40	18	36	4	6

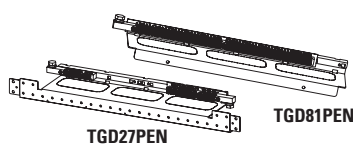


TGD27P0306

DIN Rail Module

COMPACT version with separate earth & neutral links.

Part Number	No. of Poles	Requires	Module Size	
			Height	Width
TGD27P0306	27	TGD27PEN	3	6
TGD81P0606	81	TGD81PEN	6	6



TGD27PEN

TGD81PEN

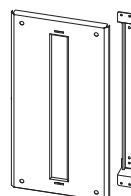
Earth & Neutral Links / Brackets

Part Number	Earth Poles	Neutral Poles	Designed to fit
TGD16PEN	5	10	TGD16P0204
TGD27PEN	10	18	TGD27P0306, TGD27P0603
TGD81PEN	27	54	TGD81P0606 (two brackets)

DIN Rail Module

COMPACT version without earth & neutral links.

Part Number	No. of Poles	Module Size	
		Height	Width
TGD16P0204	16	2	4
TGD27P0206	27	2	6
TGD27P0602	27	6	2
TGD32P0404	32	4	4
TGD54P0406	54	4	6



TGD27P0603

DIN Rail Module

COMPACT version with separate earth & neutral links.

Part Number	No. of Poles	Requires	Module Size	
			Height	Width
TGD16P0402	16	N/A	4	2
TGD27P0603	27	TGD27PEN	6	3
TGD27P0602	27	N/A	6	2



All link bars have tunnels to accept large 25mm² cables or smaller.

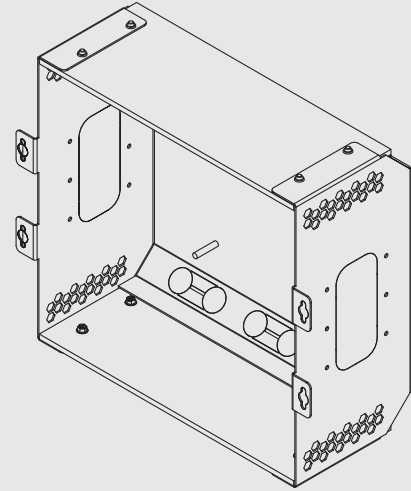
ACCESSORIES

Part Number	Description
TGYFXEK	Fixed escutcheon mounting kit (includes an additional set of brackets and tubenuts)
TGYEPLK	Escutcheon padlock brackets to suit all escutcheons (Bag of 5)
TGY250M5	M5 Hex head tapite screws (Bag of 250)
TGY1000M5	M5 Hex head tapite screws (Bag of 1000)
TGY10ESB	M5 extended sealing bolt (Bag of 10)
PF6TR	Pole filler 6-Pole tool removable
PF6TR/PK	Pole filler kit 6-Pole

Segregation Modules & Dividers



- Keyhole attachment points allow for a one person installation and assembly operation.
- Knockouts are laser cut to minimise assembly efforts.
- This module fits behind equipment modules to provide segregation and to increase forms of internal separation.
- Four studs allow the fitting of a mounting pan for equipment (excluding TGYSG0402).
- Additional venting is provided at top and bottom to facilitate heat dissipation.
- Mitred corners allow easier access to cables.
- Use segregation module with a DIN rail module to form an Authority Module.
- Manufactured from
 - 1.6mm zinc coated steel
 - Insulated phenolic resin black panel
- Powdercoated Light Grey RAL7035.



FOUR STUDS

Four studs allows the fitting of a mounting pan for equipment (excluding TGYSG0402).

KEYHOLES

Keyholes allows placement of modules into an enclosure easily.

KNOCK-OUTS

Knock-outs are laser cut to minimise assembly efforts. Special edge protector provided with slide to maintain IP2x.

INSULATED PANEL

Insulated panel allows easy drilling and workability for cable entry.

SEGREGATION

This module fits behind equipment modules to provide segregation.

VENTING

Additional venting is provided at top and bottom to facilitate heat dissipation.

MITRED CORNERS

Mitred corners allow easier access to cables. Round or slotted knockouts for cable entry.

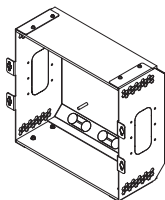
Segregation Modules & Dividers



Module Divider (size 6 shown)
Each divider is supplied with 2 edge protectors that fit into the knock-out areas to protect cables.

Part Number	Module Height	Depth (mm)*
TGYDV02	2	196
TGYDV03	3	196
TGYDV04	4	196
TGYDV06	6	196

* Full enclosure depth



Segregation Module (6x6 shown)
All segregation modules fit in and behind all switchgear modules. This allows an increase in the form factor or simply seal-off certain areas of the switchboard while maintaining IP2X and IPXXB. Top and bottom are insulated black panel to allow easier customisation for cabling. Ventilation is also provided to ensure switchboard temperature rise limits are not exceeded. Escutcheons need to be ordered separately if required (see page 17 for more information).

Part Number	Module Size		Depth (mm)*
	Height	Width	
TGYSG0402	4	2	160
TGYSG0404	4	4	160
TGYSG0406	4	6	160
TGYSG0604	6	4	160
TGYSG0606	6	6	160
TGYSG0806	8	6	160
TGYSG1006	10	6	160
TGYSG1206	12	6	160

* Allows 40mm space behind

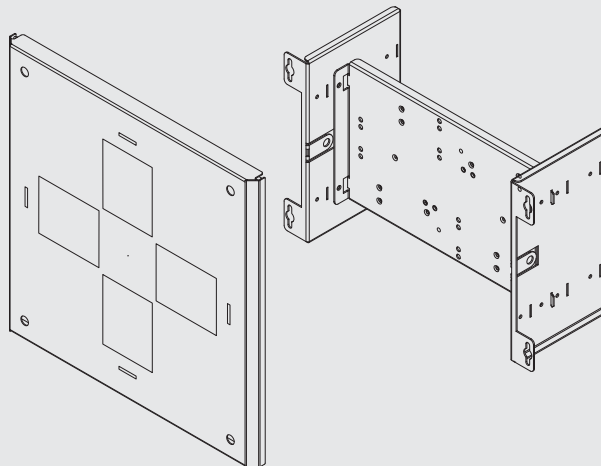
ACCESSORIES

Part Number	Description
TGY250M5	M5 Hex head taptite screws (Bag of 250)
TGY1000M5	M5 Hex head taptite screws (Bag of 1000)
TGYEP	Clip-on cable entry edge protector (5 sets)

Switchgear Modules

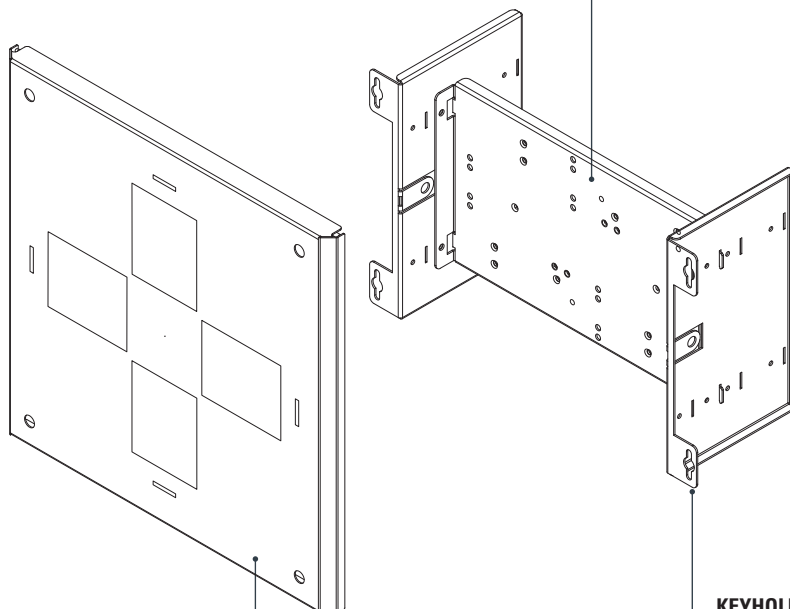


- Keyhole attachment points allow for a one person installation and assembly operation.
- Dual or single MCCB fitting with laser cut escutcheon knockouts allows multiple position of switchgear.
- Manufactured from:
 - 1.6mm thick galvanised steel
 - 1.6mm thick zinc coated steel
- Unpainted (internals) or powdercoated Light Grey RAL7035 (escutcheon)



FLEXIBILITY

Adjustable mounting pan depth for different gear mounting.



MULTI-FUNCTION ESCUTCHEON

Unique design provides multiple options including:

- Left and right hinged
- Sealable
- Padlockable
- Fixed (kit required)

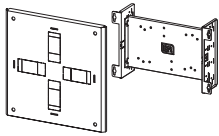
KEYHOLES

Keyholes allow easy placement of modules into enclosures without having to have three hands.

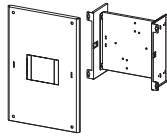


Switchgear devices are NOT included and should be ordered separately from the switchgear manufacturer.

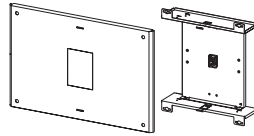
Switchgear Modules



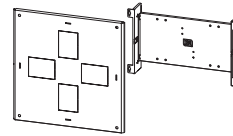
TGMCS25A0404/C
TGMCS0404/T



TGMCS63A0604/C
TGMCS0603/T



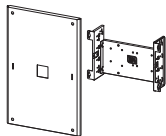
TGMCS63A0406/C
TGMCS0306/T



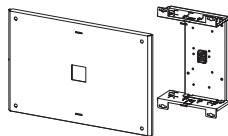
TGMCD63A0606/C
TGMCD0606/T

Switchgear Modules

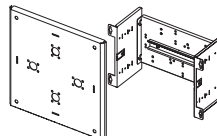
Part Number	Fits	Poles	Module Size	
			Height	Width
TGMC0204/C	Single Schneider MCCB, CVS/NSX160/250	3	2	4
TGMC0306/C	Single Schneider MCCB or switch, CVS/NSX/INS switchgear	3	3	6
TGMC0402/C	Single Schneider MCCB, CVS/NSX160/250	3	4	2
TGMC25A0404/C	Up to two Schneider MCCB or switches, CVS/NSX/INS switchgear	3	4	4
TGMCR0404/C	Up to two Schneider MCCB or switches, CVS/NSX/INS160/250A	3	4	4
TGMCS63A0406/C	Up to two Schneider MCCB or switches, CBS/NSX400/630; INS320/400/630	3	4	6
TGMC0603/C	Single Schneider MCCB or switch, CVS/NSX/INS switchgear	3	6	3
TGMCS63A0604/C	Up to two Schneider MCCB or switches, CBS/NSX400/630; INS320/400/630	3	6	4
TGMCD63A0606/C	Up to two Schneider MCCB or switches, CBS/NSX/INS160/250/S320/400/630	3	6	6
TGMC0204/T	Single Terasaki Tembreak2 MCCB, 125-250 frames or Wöhner 33200 fused switches	3	2	4
TGMC0306/T	Single Terasaki Tembreak2 MCCB, all frame sizes or Wöhner 33200, 33202 fused switches	3	3	6
TGMC0402/T	Single Terasaki Tembreak2 MCCB, 125-250 frames or Wöhner 33200 fused switches	3	4	2
TGMC0404/T	Up to two (2) Terasaki Tembreak2 MCCB 125-250 frames and Wöhner 33200 fused switches	3	4	4
TGMC0603/T	Single Terasaki Tembreak2 MCCB, all frame sizes or Wöhner 33200, 33202 fused switches	3	6	3
TGMC0606/T	Single Terasaki Tembreak2 MCCB, all frame sizes or Wöhner 33200, 33202 fused switches	3	6	6



TGMS0604/T



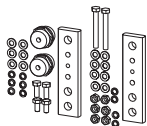
TGMS0406/T



TGSFS16A0404/C

	Part Number	Suitable for:	Poles	Module Size	
				Height	Width
Switch module	TGMSS25A0404/C†	Schneider switch isolator INS160 / 250	3	4	4
	TGMSD63A0606/C†	Schneider switch isolator INS320 / 400 / 500 / 630	3	6	6
	TGMS0404/T	Socomec switch isolator SLB1253PD / 1603PD / 2003PD / 2503PD	3	4	4
	TGMS0406/T	Socomec switch isolator (fits all SLBxxxx (3P) switch frames)	3	4	6
	TGMS0604/T	Socomec switch isolator (fits all SLBxxxx (3P) switch frames)	3	6	4
	TGMS0606/T	Socomec switch isolator (fits all SLBxxxx (3P) switch frames)	3	6	6

† While stocks last



Earth & Neutral Bar Kit

Part Number	Amps
TGCCB400A	400
TGCCB630A	630

Terasaki MCCB frame sizes

TB2 Lite 160	TB2 Lite 250	TB2 S125	TB2 S250	TB2 S/H/L 250	TB2 E/S 630
E160-SF	E250-SCF	E125-NJ	S160-GJ	H125-NJ	E400-NJ
S160-SCF	E250-SF	S125-GJ	S160-NJ	L125-NJ	S400-CJ
S160-SF	S250-SF	S125-NJ	E250-NJ	H160-NJ	S400-GE
E160-SJ	E250-SCJ	S125-NN	S250-GJ	L160-NJ	S400-GJ
S160-SCJ	E250-SJ		S250-NJ	S250-NE	S400-NE
S160-SJ	S250-SJ		S250-NN	S250-PE	S400-NJ
S160-SN	S250-SN			H250-NE	S400-PJ
				H250-NE	S400-PE
				S250-GE	E630-NE
				H250-NJ	S630-CE
				L250-NJ	S630-GE
					S400-NN

ACCESSORIES

Part Number	Description
TGYFXEK	Fixed escutcheon mounting kit (includes an additional set of brackets and tubenuts)
TGYEPLK	Escutcheon padlock brackets to suit all escutcheons (Bag of 5)
TGY250M5	M5 Hex head taptite screws (Bag of 250)
TGY1000M5	M5 Hex head taptite screws (Bag of 1000)
TGY10ESB	M5 extended sealing bolt (Bag of 10)

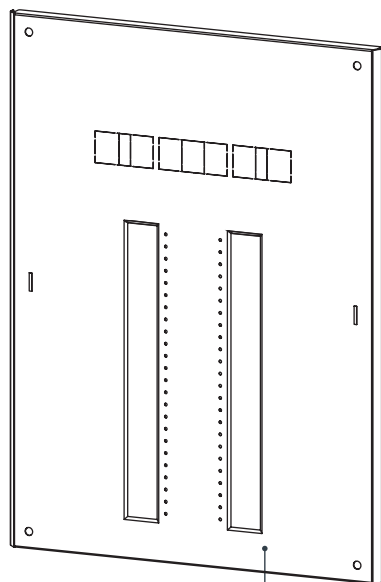
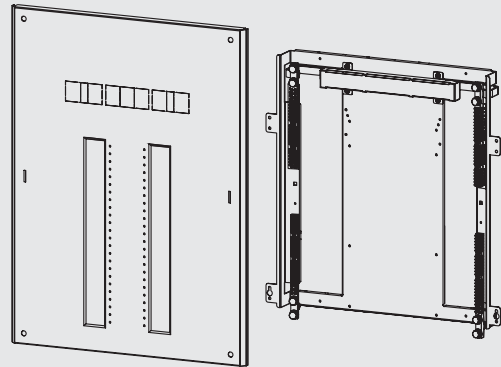
Chassis Modules



- Keyhole attachment points allow for a one person installation and assembly operation.
- Open frame structure allows for easy wiring from MCBs to outgoing circuits.
- All circuits are numbered according to AS/NZS 3000.
- Manufactured from
 - 1.6mm thick galvanised steel (internals)
 - 1.2mm thick zinc coated steel (escutcheon)
- Unpainted (internals) or powdercoated Light Grey RAL7035 (escutcheon)

Comes standard with:

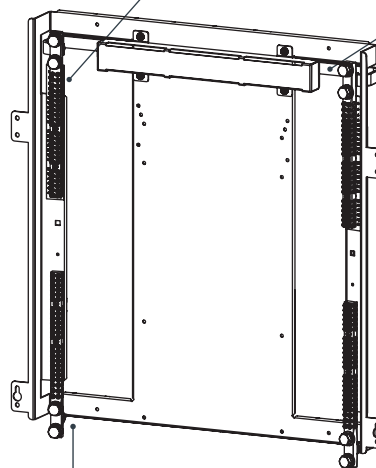
- Pre-cut escutcheon
- Earth and neutrals on each side
- Neutral bridge to connect left neutral and right neutral



MULTI-FUNCTION ESCUTCHEON

Unique design provides multiple options including:

- Left and right hinged
- Sealable
- Padlockable (kit required)
- Fixed (kit required)



NEUTRALS

Positioned both left and right of chassis for easy wiring. Neutrals linked with copper busbar bridge.

NEUTRAL BRIDGE

Connects left and right side neutral bars.

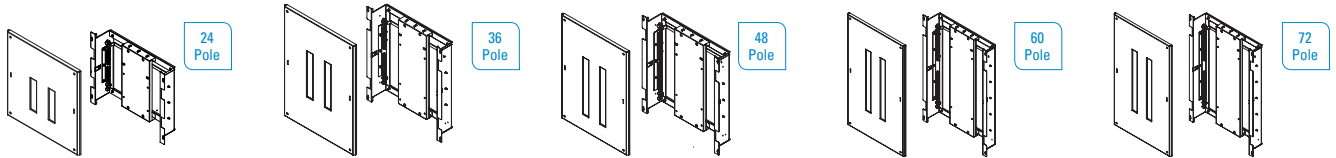
INTEGRATED EARTH

Provided for simple wiring requirements.

Chassis Modules



ORDERING GUIDE



Product	Part Number	Description	Poles	Module Size	
				Height	Width
Schneider SAU MCB chassis	TGJ24P0606/C [▲]	Provision for mains switch	24	6	6
	TGJA36P0606/C [▲]		36	6	6
	TGJA36P0806/C [▲]	Provision for mains switch	36	8	6
	TGJ48P0806/C	Provision for mains switch	48	8	6
	TGJA60P0806/C [▲]		60	8	6
	TGJB60P1006/C [▲]	Provision for mains switch	60	10	6
	TGJ72P1006/C [▲]	Provision for mains switch	72	10	6
Schneider SAU MCB chassis 3-Phase	TGJ25A24P0606/C ⁺		24	6	6
	TGJ25A36P0806/C ⁺		36	8	6
	TGJ40A60P1006/C ⁺		60	10	6
	TGJ40A72P1006/C ⁺		72	10	6
NHP NC / Grizz MCB chassis top feed	TGJA24P0606/T		24	6	6
	TGJB24P0606/T	Provision for mains switch	24	6	6
	TGJA36P0606/T		36	6	6
	TGJB36P0806/T	Provision for mains switch	36	8	6
	TGJA48P0806/T		48	8	6
	TGJB48P0806/T	Provision for mains switch	48	8	6
	TGJA60P0806/T		60	8	6
	TGJB60P1006/T	Provision for mains switch	60	10	6
	TGJA72P1006/T		72	10	6
	TGJB72P1006/T	Provision for mains switch	72	10	6

[▲] Available on request

⁺ While stocks last

Note: All chassis modules are designed for for top fed single ended chassis only.

ACCESSORIES

Part Number	Description
TGYFXEK	Fixed escutcheon mounting kit (includes an additional set of brackets and tubenuts)
TGYEPLK	Escutcheon padlock brackets to suit all escutcheons (Bag of 5)
TGY250M5	M5 Hex head taptite screws (Bag of 250)
TGY1000M5	M5 Hex head taptite screws (Bag of 1000)
TGY10ESB	M5 extended sealing bolt (Bag of 10)



Chassis assembly are NOT included and should be ordered separately from the switchgear manufacturer.

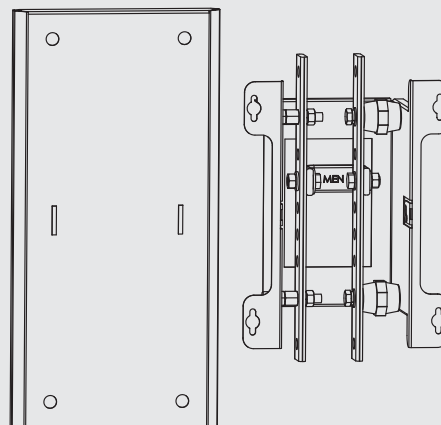
Link Modules



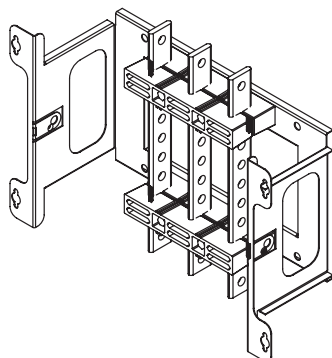
- Keyhole attachment points allow for a one person installation and assembly operation.
- Various cable sizes on all types of link modules ensures flexibility.
- Incomer links allow simplicity for incoming termination of cables, reducing errors.
- Provides for multiple cable terminations.
- Manufactured from
 - 1.6mm thick galvanised steel (internals)
 - 1.2mm thick zinc coated steel (escutcheon)
- Unpainted (internals) or powdercoated Light Grey RAL7035 (escutcheon).

Comes standard with:

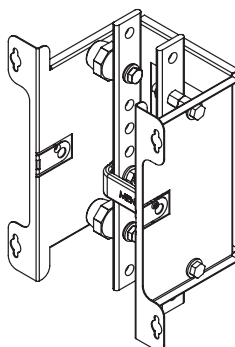
- Hinged escutcheon
- Label (MEN links only)



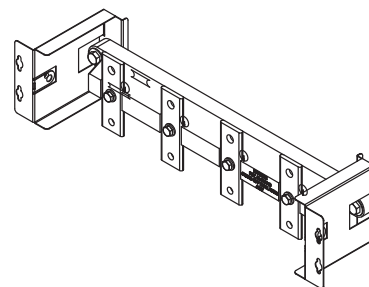
ACTIVE LINKS



MEN LINKS



INCOMER LINKS



ORDERING GUIDE

Product	Part Number	Amps	Module Size	
			Height	Width
Copper Bar MEN Links	TGLM25A0402	250	4	2
	TGLM63A0404	630	4	4
Incomer Termination Link	TGLNK0206	630	2	6
Covered Rear Active Links (Excludes Links)*	TGLA12A0206	400	2	6
Active Links	TGLA63A0404	630	4	4

* LK links listed in accessories are suitable for use with this product.



Covered and uncovered links are available for use with this product. See pages 32 & 33 for more information.

ACCESSORIES

Part Number	Description
TGYFXEK	Fixed escutcheon mounting kit (includes an additional set of brackets and tubenuts)
TGYEPLK	Escutcheon padlock brackets to suit all escutcheons (Bag of 5)
TGY250M5	M5 Hex head taptite screws (Bag of 250)
TGY1000M5	M5 Hex head taptite screws (Bag of 1000)
TGY10ESB	M5 extended sealing bolt (Bag of 10)
LK400A13C150	Links 400A 12-Terminals Clear Max 150mm ²
LK400A7C150	Links 400A 7-Terminals Clear Max 150mm ²

Project Profile

Padstow Gardens, Eight Mile Plains QLD



Padstow Gardens is a residential development located in Eight Mile Plains, South of Brisbane, consisting of eighteen residential townhouses.



A solution was required to supply an IP rated, modular switchboard solution for a multiple tenancy, central location within the complex. This project consisted of two (2) stages.

D&L Williamson Electrical is a family owned business with over 25 years' experience in the building industry. Based in south east Queensland, D&L provide a range of electrical services, including commercial projects, renovations, security installations and switchboard upgrades.

“We appreciate the high level of after sales service that we receive from B&R sales representatives.”

D&L were contracted to complete electrical works for Padstow Gardens. As part of stage one, D&L required a main switchboard with the capacity to house CT metering and private metering for nine of the eighteen residential townhouses within the complex.

For stage two, a second main switchboard was required for all remaining townhouses located in a different area of the complex.

The main switchboard needed to be installed outdoors, and therefore IP66 rating was specified for total protection against the ingress of dust and water.

B&R provided an **Infinity 3G** modular switchboard solution for this project. Utilising B&R's wholesale partners, the entire product solution was supplied through CNW Electrical Wholesale and Energy Solutions located in Geebung.

The current ratings at Padstow Gardens were also considered for this project as they were expected not to exceed 125 Amps.

B&R and D&L Williamson Electrical selected the Primo range as it met all the needs of this project including the IP66 protection rating required for installation outdoors.

B&R's **Infinity 3G** product range is a modular solution for commercial and residential applications up to 630 Amps.

B&R designed, manufactured and assembled the switchboard at their facility at Heathwood, south of Brisbane.

B&R delivered the switchboard over to D&L to wire and complete the installation on site. This kept the lead time of the project to a minimum, and ensured that D&L could offer their customer a time effective solution.

D&L and B&R have worked closely together in the past on projects including Aspect on Archer in Toowong, and Southpoint, a new apartment development in Moorooka.

Michael from D&L Williamson appreciates the quality of after-sale service they receive from B&R sales representatives. With external time constraints to be met, D&L value the quick turn around with any changes or additions needed.

“With power coming on soon, we can't have someone taking weeks to get something done – it needs to be sorted promptly.” D&L are comfortable that any questions they have will be addressed quickly and thoroughly. B&R and D&L look forward to working together in the future, including on a new development at Albany Creek with similar requirements to Padstow Gardens.

Covered Links



- Suitable for domestic and commercial metering applications.

Conformity / Approvals:

- UL94, V0 rating, 960°C glow wire test
- Tunnel type terminals AS3000:2007: Clause 2.9.4
- Numbering to AS3000 regulations
- Designed to Australian regulations
- 400A product test report (completed by B&R)
- Complies to AS5112



ORDERING GUIDE

Part Number			Description	No. of Tunnels	Maximum tunnel	Screws	Amps	Range
Clear	Red	Black						
LK5C35	LK5R35	LK5B35	Link 5 Terminals Max 35mm	5	35mm	Steel	100	Small
LK5C	LK5R	LK5B	Link 5 Terminals	5	16mm	Steel	100	Small
LK6C35	LK6R35	LK6B35	Link 6 Terminals Max 35mm	6	35mm	Steel	100	Small
LK7C35	LK7R35	LK7B35	Link 7 Terminals Max 35mm	7	35mm	Steel	100	Small
LK7C	LK7R	LK7B	Link 7 Terminals	7	16mm	Steel	100	Small
LK10C35	LK10R35	LK10B35	Link 10 Terminals Max 35mm	10	35mm	Steel	100	Medium
LK10C	LK10R	LK10B	Link 10 Terminals	10	16mm	Steel	100	Medium
LK13C35	LK13R35	LK13B35	Link 13 Terminals Max 35mm	13	35mm	Steel	100	Medium
LK18C	LK18R	LK18B	Link 18 Terminals	18	16mm	Steel	100	Medium
LKT4C35	LKT4R35	LKT4B35	Link T Shaped 4 Terminals Max 35mm	4	35mm	Brass	140	T-Shape
LK165A7C70	LK165A7R70	LK165A7B70	Link 165A 7 Terminals Max 70mm	7	70mm	Brass	165	165amp
LK165A13C70	LK165A13R70	LK165A13B70	Link 165A 13 Terminals Max 70mm	13	70mm	Brass	165	165amp
-	-	LK250A4B35	Link 100A 4 Terminals Max 35mm	4	35mm	Steel	100	Vic Link
LK400A7C150	LK400A7R150	LK400A7B150	Link 400A 7 Terminals Max 150mm	7	150mm	Brass	400	400amp
LK400A13C150	LK400A13R150	LK400A13B150	Link 400A 13 Terminals Max 150mm	13	150mm	Brass	400	400amp



- Suitable for domestic and commercial metering applications.

Conformity / Approvals:

- Tunnel type terminals AS3000:2007: Clause 2.9.4
- Numbering to AS3000 regulations
- Designed to Australian regulations
- Complies to AS5112



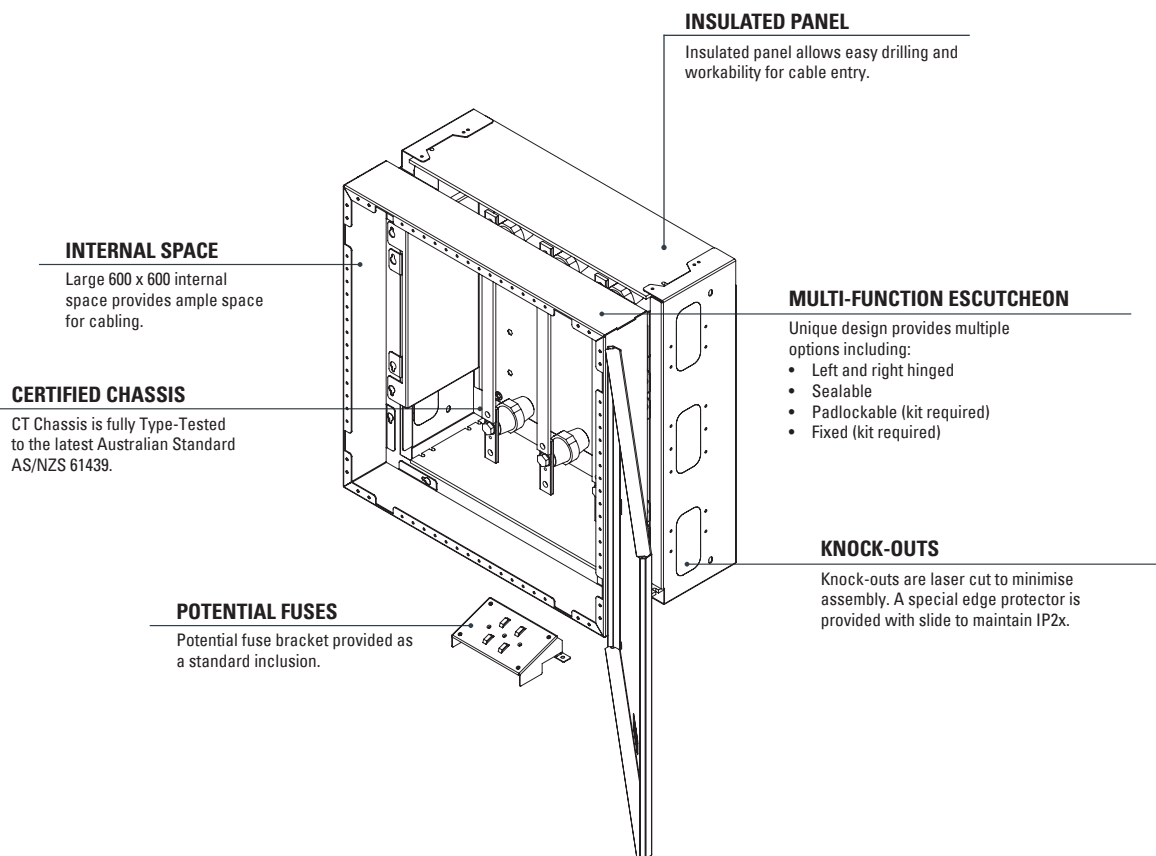
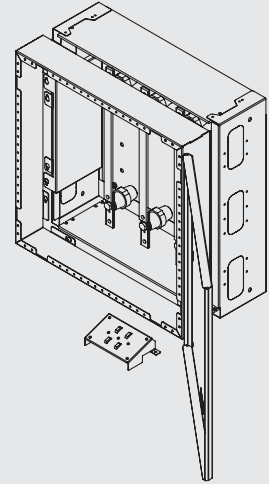
ORDERING GUIDE

Part Number	Description	Amps	Tunnels	Length
LKFEET	A pair of link bar support feet	–	–	–
LK90A4	Link 90A 4 Tunnels 16mm ²	90	4	54.5
LK90A6	Link 90A 6 Tunnels 16mm ²	90	6	68.0
LK90A8	Link 90A 8 Tunnels 16mm ²	90	8	81.0
LK90A12	Link 90A 12 Tunnels 16mm ²	90	12	106.0
LK165A12	Link 165A 2 x M10 Studs 12 Tunnels 16mm ²	165	12	144.0
LK165A18	Link 165A 2 x M10 Studs 18 Tunnels 16mm ²	165	18	185.0
LK165A24	Link 165A 2 x M10 Studs 24 Tunnels 16mm ²	165	24	227.0
LK165A36	Link 165A 2 x M10 Studs 36 Tunnels 16mm ²	165	36	331.0
LK250A12	Link 250A 2 x M8 Studs 12 Tunnels 2x35 / 10x16mm ²	250	12	153.0
LK250A18	Link 250A 2 x M8 Studs 18 Tunnels 2x35 / 16x16mm ²	250	18	197.0
LK250A24	Link 250A 2 x M8 Studs 24 Tunnels 2x35 / 22x16mm ²	250	24	238.0
LK250A36	Link 250A 2 x M8 Studs 36 Tunnels 4x35 / 32x16mm ²	250	36	328.0

CT Modules



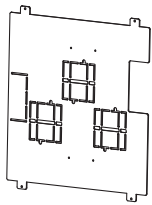
- Keyhole attachment points allow for a one person installation and assembly operation.
- CT module is the same size for 400A and 630A CTs.
- Transparent screen covers are provided as an accessory for compliance to regulatory rules and improved safety.
- Potential fuse bracket provided as a standard inclusion.
- 400A version suits all S-Type CT's for either 200A or 400A applications.
- 630A version suits T-Type CT's.
- Alternative CT mounting positions for Queensland regulations.
- Manufactured from
 - 1.6mm thick galvanised steel (internals)
 - 1.6mm thick zinc coated steel (externals)
- Unpainted (internals) and powdercoated Light Grey RAL7035 (externals).



CT Modules



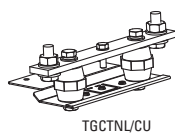
Part Number	Amps	Module Size (dm)		Fault Rating	CT Type
		Height	Width		
TGCT400A0606	400	6	6	25kA for 1 sec	S
TGCT630A0606	630	6	6	36kA for 1 sec	T



Safety Screen to suit 6x6 Module *

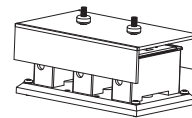
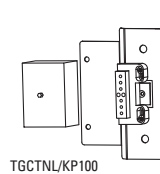
Part Number	Module Size	
	Height	Width
TGCTSC0606	6	6

* Required for NSW



Neutral Links

Part Number	Product
TGCTNL/CU	With short copper bar
TGCTNL/KP100	With KP100/5



CT Potential Fuse Kit

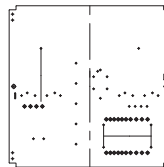
Required for QLD installations.

Part Number	Product
CTPFK	With Insulating Base

CT Label (124W X 50H) *

Part Number	Product
TGCTLBA	ACT Supply Authority
TGCTLBN	NSW Supply Authority
TGCTLBQ	QLD Supply Authority
TGCTLBT	TAS Supply Authority
TGCTLBW	WA Supply Authority
TGCTLBVS	VIC & SA Supply Authority

* Each State requires a specific wording on CT labels.



Pre-Drilled CT Meter Panels

Part Number	State	Module Size	
		Height	Width
TGPQCT0606	QLD	6	6
TGPNCT0606	NSW	6	6
TGPNCT0606	VIC	6	6
TGPSCT0606	SA	6	6

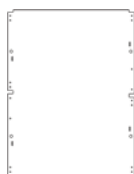
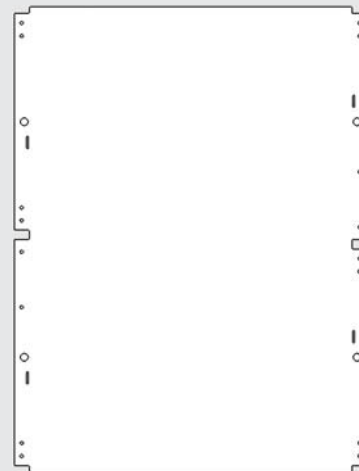
ACCESSORIES

Part Number	Description
TGYFXEK	Fixed escutcheon mounting kit (includes an additional set of brackets and tubenuts)
TGYEPLK	Escutcheon padlock brackets to suit all escutcheons (Bag of 5)
TGY250M5	M5 Hex head taptite screws (Bag of 250)
TGY1000M5	M5 Hex head taptite screws (Bag of 1000)
TGY10ESB	M5 extended sealing bolt (Bag of 10)
TGYEP	Clip-on cable entry edge protector (5 sets)

Panels

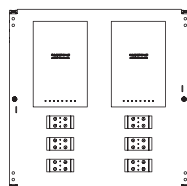


- Panels can be pre-drilled to suit authority meter patterns.
- Can be supplied blank for free placement of meters.
- High grade paper phenolic resin black panel (Asbestos Free)
- Waterproof (hydroscopic).
- Exceeds 960°C glow-wire test requirements as per the Australian Standards AS/NZS 61439.
- Fitted with hinges to allow either left or right hand hinging.
- Requires matching enclosure side male hinge kits to suit application requirements.
- Can be made as a fixed panel (not hinged) using fixed panel mounting kit (TGPFXXPK).



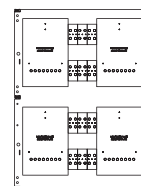
Plain Black Panels
TGP0806

Part Number	Module Size	
	Height	Width
TGP0404	4	4
TGP0604	6	4
TGP0606	6	6
TGP0806	8	6
TGP1006	10	6
TGP1206	12	6



QLD Pre-Drilled Meter Panels
TGPQ2M3P0606

Part Number	Meters	Module Size	
		Height	Width
TGPQ5M1P0606	5 x 1-Phase	6	6
TGPQ10M1P1206	10 x 1-Phase	12	6
TGPQ2M3P0606	2 x 3-Phase	6	6
TGPQ6M3P1006	6 x 3-Phase	10	6
TGPQCT0606	CT	6	6

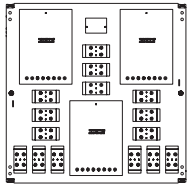


NSW Pre-Drilled Meter Panels
TGPN4M3P0806

Part Number	Meters	Module Size	
		Height	Width
TGPN6M1P0606	6 x 1-Phase	6	6
TGPN9M1P1006	9 x 1-Phase	10	6
TGPN12M1P1206	12 x 1-Phase	12	6
TGPN2M3P0606	2 x 3-Phase	6	6
TGPN4M3P0806	4 x 3-Phase	8	6
TGPN6M3P1006	6 x 3-Phase	10	6
TGPNCT0606	CT	6	6



All panels require either TGPSHKx or TGDFxx for installation. See page 37 for a list of accessories available.

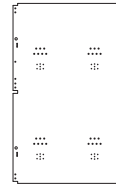


SIR Approval #SIR140615B

VIC Pre-Drilled Meter Panels

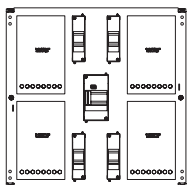
TGPV3M3P0606

Part Number	Description	Hinged	Module Size	
			Height	Width
TGPV1M3P0404	1 x 3-Phase	Left or Right	4	4
TGPV1M3P0603	1 x 3-Phase	Left or Right	6	3
TGPV2M1P0404	2 x 1-Phase	Left or Right	4	4
TGPV2M1P0603	2 x 1-Phase	Left or Right	6	3
TGPV3M3P0606	3 x 3-Phase	Left or Right	6	6
TGPV6M3P1006	6 x 3-Phase	Left or Right	10	6
TGPV6ML1P0606	6 x 1-Phase	Left	6	6
TGPV6MR1P0606	6 x 1-Phase	Right	6	6
TGPV8M3P1206	8 x 3-Phase	Left or Right	12	6
TGPV9ML1P1006	9 x 1-Phase	Left	10	6
TGPV9MR1P1006	9 x 1-Phase	Right	10	6
TGPV12ML1P1206	12 x 1-Phase	Left	12	6
TGPV12MR1P1206	12 x 1-Phase	Right	12	6
TGPVCT0606	CT	Left or Right	6	6



WA Pre-Drilled Meter Panels

Part Number	Description	Module Size	
		Height	Width
TGPW10M1P1206	10 x 1-Phase	12	6
TGPW2M1P0606	2 x 1-Phase	6	6
TGPW2M3P0606	2 x 3-Phase	6	6
TGPW4M1P0606	4 x 1-Phase	6	6
TGPW4M1P1006	4 x 1-Phase	10	6
TGPW4M3P1006	4 x 3-Phase	10	6
TGPWCT0606	CT	6	6



SA Pre-Drilled Meter Panels

TGPS4M1P0606

Part Number	Description	Module Size	
		Height	Width
TGPS4M1P0606	4 x 1-Phase	6	6
TGPS6M1P1006	6 x 1-Phase	10	6
TGPS8M1P1006	8 x 1-Phase	10	6
TGPS2M3P0606	2 x 3-Phase	6	6
TGPSCT0606	CT	6	6

ACCESSORIES

Part Number	Description
TGPFXPK	Fixed panel mounting kit
TGPSHK2	Dual hinged surface mount panel hinging kit
TGPSHK3	Triple hinged surface mount panel hinging kit
TGPDF04	Double hinged flap for 4H panel
TGPDF06	Double hinged flap for 6H panel
TGPDF08	Double hinged flap for 8H panel
TGPDF10	Double hinged flap for 10H panel
TGPDF12	Double hinged flap for 12H panel

Project Profile

Aspect on Archer, Brisbane QLD

Aspect on Archer is a development by Aspect Property Group in Southeast Queensland with over 160 apartments..



B&R Enclosures were engaged by D&L Williamson Electrical to supply switchboard and metering solutions for the development's electrical supply. B&R supplied enclosures for three distinct stages.

INCOMING MAINS ELECTRICITY

D&L selected B&R's **Signature SE** range of switchboards to manage incoming mains supply. With over 160 apartments to distribute electricity to, D&L needed a switchboard system able to cope with high energy levels. Thoroughly tested and certified to Australian and International standards, B&R's Signature SE range is suitable for incoming current ratings up to and including 3400 Amps, making it the perfect solution for the high energy flow needed at this site.

“Infinity 3G was the perfect solution designed to cope with the high energy levels on this project.”

POWER DISTRIBUTION FOR INDIVIDUAL UNITS

As the switchboards for individual unit power distribution were to be located in locked cupboards on every second floor, the design D&L provided had a focus on space saving. With this in mind, B&R offered the **Infinity 3G** Econo range design.

This switchboard solution safely contained all wiring in a framework, without the need for a full enclosure around the system. This design also offered the flexibility to cut down on unnecessary costs.

The Infinity 3G switchboard has been designed to provide a modular solution for commercial and residential applications up to 630 Amps. This multi-residential solution has been tested to IEC 61439 and is fully compliant to AS/NZS 61439.

At Aspect on Archer, B&R's engineers designed the modular system, and fitted the initial electrical components to the switchboard. B&R then handed the product over to D&L to complete the installation.

TEMPORARY POWER

B&R's **Horizon Q20** enclosures were used throughout the building while permanent power solutions were unavailable. These enclosures needed to supply power, and also allow relocation as work progressed. Fully compliant with QLD Supply Authority Rules, the Q20 was used in multiple areas around the site during construction.

B&R worked closely with D&L to provide a cost effective solution with superior ease of access for installation and maintenance.

Keeping communications channels open ensured transparency in all actions between B&R and D&L. This promoted a mutually beneficial relationship where any proposed changes were adopted quickly and efficiently. B&R will continue working with D&L on Aspect on Archer until its proposed completion towards the end of 2016. B&R and D&L also have ongoing work planned, including small day-to-day operations, as well as more significant projects. The larger projects include providing enclosures for the Walsh St Apartments in Milton, and Arvia at Coolangatta.

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Project Profile

Steeline Warehouse Switchboards Brisbane, QLD

Steeline Metal Framing Systems required switchboards for their factory and office south of Brisbane.



Sherriff Electrical Wholesalers at Albion engaged B&R to supply Infinity 3G switchboards.

Steeline is an Australian owned metal roofing and steel building company. In 2016, Steeline expanded their capabilities with a new manufacturing plant in Meadowbrook, QLD. This facility is run by Steeline Metal Framing Systems (SMFS), who manufacture steel frames for houses and portable buildings.

“ We were able to work closely with B&R and the customer to get this project across the line. ”

Electrical switchboards, or distribution boards, were required at SMFS's new facility to distribute power to the office and factory. Due to the size of the facility, and the significant electrical load it draws, multiple switchboards were needed to service the site. The distribution boards for the factory power large machinery, and therefore have to cope with significant currents ratings.

As the switchboard for the office was located outside, it required an IP66 protection rating to ensure it remained secure from any environmental influences. Although the factory switchboards were located indoors, they also needed an IP66 protection rating, as they were installed in a working environment where dust ingress was likely.

Steeline Metal Framing Systems contracted CBD Electrical Services to fit out their new warehouse. CBD Electrical provide a range of services, including data and communications, air conditioning installation and maintenance.

B&R Enclosures provided CBD Electrical with the required switchboards, supplying their enclosures through Sherriff Electrical Wholesalers at Albion. Sherriff have worked with CBD Electrical and B&R in the past to provide comprehensive electrical and installation solutions.

B&R supplied Infinity 3G modular switchboards, which have been designed for applications up to 630Amps. The maximum current rating required at SMFS was 400Amps, making Infinity 3G an ideal solution.

B&R offered Infinity 3G as a fully engineered product, completely assembled and wired. The Infinity 3G range is certified to IEC 61439, the international standard for electrical switchboards, and is compliant to AS/NZS 61439. Certification to IEC 61439 ensures that Infinity 3G can cope with high energy flows with minimal risk to safety or potential faults.

As SMFS needed switchboards able to resist the ingress of dust and water, B&R offered the Primo range of Infinity 3G. Infinity 3G Primo is certified to IP66, ensuring it protects all internal equipment from dust and high pressure water impacting from any direction.

B&R provided a complete solution, designing and manufacturing the enclosures at their facility in Brisbane. Manufacturing the switchboards locally kept the lead time to a minimum.

Communicating regularly with Sherriff and CBD Electrical, B&R ensured that the end design suited SMFS's needs. The switchboards and distribution boards have been installed at SMFS at Meadowbrook since December 2016.

Sherriff Electrical Wholesalers at Albion have worked with B&R on a range of projects. Infinity 3G was the preferred enclosure for this project as its modular system allowed great flexibility when designing the end product, and ensured a 100% fit for purpose solution.

Matt Newman, Branch Manager at Sherriff Albion, chooses B&R because, like Sherriff, B&R is an Australian owned and operated company. "We're able to work closely with B&R and the customer to get projects across the line."

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