



**B&R Enclosures**

# **Oyu Tolgoi Product Catalogue**

**[brenclosures.com.au](http://brenclosures.com.au)**

**With thanks to:**

Deepak Sharma	Operation Manager – PGGI	ABB (China) Limited
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A Message from B&R,

Since 1955, B&R Enclosures has been manufacturing, designing and supplying enclosure solutions to a variety of markets and projects. Today, we remain a 100% Australian family-owned and operated local manufacturer with facilities in Brisbane, Adelaide, Sydney, and Melbourne as well as Suzhou (China) and Dammam(Saudi Arabia), supported by an international network of sales and distribution centres.

Our team of dedicated state, national and international business development staff work at branch level with specifiers, end users and contractors to ensure the market for our products continues to grow and that our brand offering is specifically selected for major projects, such as Oyu Tolgoi, the primary target for this catalogue.

The outcomes delivered with the Oyu Tolgoi project illustrates the value of B&R's focus on investigating and understanding our customers' application, scoping and delivering an agreed total solution all within an ongoing trusting relationship. With a unique understanding of local conditions, we are able to offer 'engineered system solutions' to meet your specific project requirements.

No matter the size and criteria of your project, B&R have your electrical, data, mining, infrastructure and industrial enclosure needs covered. The success of B&R Enclosures centers around the people who dedicate themselves to providing you with the very best quality enclosure solutions on the market.

We look forward to working together with you to provide enclosure solutions that meet all of your requirements.

Please contact a member of our team at a location nearest to you to discuss your best product solution.

Yours sincerely,

Tim Bridges   Dan Bridges   Ben Bridges  
Co-CEO        Co-CEO        Co-CEO



# The B&R Engagement loop



In order to engage successfully with our project customer's, B&R representatives follow a structured service plan.

We take our responsibility seriously, and pride ourselves on the collaborative and open relationships we undertake with our project customers. This makes sure we understand and provide value, because our customer's needs vary greatly across the different types of project applications and technical requirements.

1. Our first action before we reach out or after a customer had reached out to us, is to **INVESTIGATE**. This includes researching the customer/ project and any other relevant stakeholders.
2. The second action of **UNDERSTAND** is when we speak to the customer at length about their issue and challenges for current and future projects. From these discussions we can begin to see how our product solutions can solve the customer's issues and challenges.
3. We take our newly acquired customer knowledge back to our in-house design, engineering and estimating teams for our third action to **SCOPE** the work, and prepare quotes and drawings as required.

4. Once we have created the tailored offer for the customer we process any variations which might be needed before our fourth action of **AGREE**. With everything signed off we move into manufacturing and equipment integration.
5. Once the product solution is ready our fifth action of **DELIVER** takes place. We make sure the goods are shipped to site according to agreed upon timelines.
6. To learn from our experience and confirm our service level we take an **EVALUATION** action. This is when we reflect on the job we've completed and depending on the size and extent of the order we will seek customer feedback as well.



# Electrical Integration

B&R Enclosures have built a reputation for providing customers with the highest standard of custom designed, manufactured and supplied complete enclosure solutions.

At B&R, we not only manufacture and supply a range of enclosure solutions, but we also customise the standard product design to be 100% fit-for-purpose, innovative and efficient.

B&R's team of designers work with clients on unique engineering challenges to provide innovative, efficient solutions delivered with short lead times and complex project specifications. B&R's design and engineering division work with customers to customise any standard product to ensure you have a product to suit project requirements.

B&R prides itself on continually searching for the best and most innovative solutions across multiple industries, designing and supplying standard or complete engineered solutions into a vast array of applications.

Offering customers a complete electrical integration service via our team of qualified electricians and electrical engineers, allows us to build complete component sub-systems that deliver total system functionality prior to final installation.

B&R Enclosures have established and fully certified multiple value add divisions which are located within our facilities in Brisbane, Adelaide, Sydney, Suzhou (China) and Dammam (Saudi Arabia).

All B&R products are backed by staff with local knowledge, experience of markets, environmental conditions, project requirements, electrical regulations, cultural customs and language dialects.

Solutions include standard off-the-shelf products, customised and assembled-to-order solutions, fully engineered enclosures, electrical wiring services and supply chain management.

Our Services include:

- Door cutouts
- Cable entries
- Terminals and controls fitted
- Viewing windows
- Customised wiring
- Vent kits / sunshades fitted or punched
- Assembled-to-order / fitting of accessories
- Design and engineering

What this means for our customers:

- Custom designed solutions to suit project requirements
- Shorter lead times
- Available for small or large quantities
- One point of contact
- Standard product straight off the floor



## Industrial

Process Automation & Control  
Junction & Marshalling  
Power Distribution  
Motor Control  
Climate Control

## Data & ICT

Networking & Server  
Containment & Caging  
High Security/SCEC  
Cooling & Efficiency  
Small Office/Home Office  
Telecommunications Solutions  
Power Distribution

# Our Customers



Some of the largest companies around the world use B&R as a major supplier including Rio Tinto and BHP Billiton. B&R Enclosures fosters longstanding partnerships with our clients, ensuring that we understand their evolving needs and business drivers.

### Our Customers Include

- Rio Tinto
- 3W Networks
- ABB
- PAN Electric
- Alstrom
- Aramco, Saudi Arabia
- Caltex
- Arrow Energy
- Atlantic, Gulf & Pacific Company
- BHP Billiton
- Krohne Malaysia
- Boeing
- Solomon Islands Electricity Authority
- BP
- Emerson
- NBN Co
- Invensys
- QANTAS
- Sendan
- Telstra

### Project Experience Includes

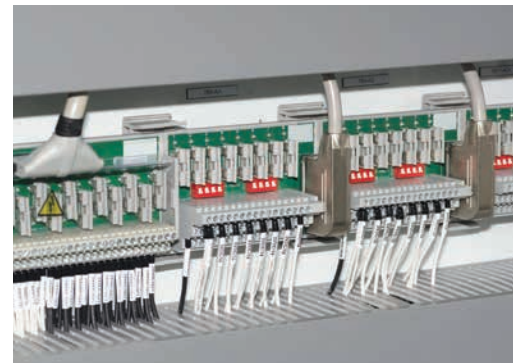
- APLNG Project, Malaysia
- Macedon Gas Plant, Malaysia
- Emerson, Saudi Arabia
- Ichthys LNG Project, Australia
- SABIC, Saudi Arabia
- South Jeddah Pumping Stations, SWTP, Saudi Arabia
- Steeline Warehouse, Australia
- Output Based Aid, Solomon Islands
- Aramco, Saudi Arabia

### Markets Include

- Mining
- Industrial
- Renewable Energy
- Oil and Gas
- Transport
- Defence
- Industrial Process Control
- Infrastructure; and more

“ These products are built to Rio Tinto's highest quality standard using ABB and other equipment. ”

*Deepak Sharma Operations Manager PGGI  
ABB (China) Limited*



### Residential Commercial

- Power Distribution
- Group / Commercial Metering
- Home Networking

### Hazardous Areas

- Exe & Exd Enclosures
- Lighting
- Weatherproof
- Plug & Socket Outlets

# Project Profile

## Oyu Tolgoi Mine Gobi Desert, Mongolia

The Oyu Tolgoi mine is a combined open pit and underground mining project in Mongolia's South Gobi Desert approximately 550km south of the capital, Ulaanbaatar and 80km north of the Mongolia-China border. It primarily produces copper but also small amounts of gold, silver and other metals.

The Oyu Tolgoi mine is jointly owned by the Government of Mongolia (34%) and Rio Tinto (66%). Rio Tinto have been managing the mine since 2010. Oyu Tolgoi mine has been producing concentrate using ore mined from the surface through open pit mining. Due to 80% of the copper being found deep under the surface during exploration drilling, the mine has now expanded to include underground mining.

Based on recommendations by Rio Tinto and a previous working relationship with ABB, B&R Enclosures Australia, was approached by ABB to assist with the design and engineering of enclosures for use at the Oyu Tolgoi mine. This included the manufacture, assembly, wiring, dual language labelling, testing, quality control and project management of supply.

Worley is responsible for providing engineering, procurement and construction management (EPCM) services to implement the material handling systems for the new underground mine and associated infrastructure, delivered over a five to seven-year period. Worley approached ABB regarding the supply of PLC panels, local control stations and custom power distribution boards, each of which needed to be suitable for use outside, in the underground mine and in buildings located on the mine site.

### Power Distribution Boards

Custom power distribution boards are designed, engineered, manufactured and wired with electrical technology integration, which was proudly carried out at B&R Australia and is now being carried out by our facility in Suzhou, China. Due to its close proximity, it ensures customer convenience with improved turn around times. Various departments within B&R work closely with technical teams at Worley and Rio Tinto Australia, to provide products that comply with Rio Tinto and Australian standards. This includes wiring to Mongolia's colour coding standard.

Worley supplied initial drawings of the power distribution boards to ABB as they had specific requirements of what the enclosures needed to be, how they should function and where they would be used. These enclosures were based on the specific requirements needed to meet the needs of Rio Tinto for the design of power distribution boards and related enclosures. As with the PLC panels and local control stations, the power distribution boards were also to be used throughout the mine site.

B&R Enclosures worked with ABB to assist them with the final design based on Worley specifications. The two types of custom power distribution boards included strict size dimensions on the



overall product and an IP56 protection rating. A dedicated terminal for field connections was also required while still having the testing facilities at the board along with the ability to withstand the harsh mining environment.

A modified design of B&R's Bowen enclosure was used for the outside and underground applications as it is manufactured from 316 stainless steel, has an IP56 protection and comes with a 40 degree sloping roof designed to prevent water or sediment build-up.

The power distribution boards used within buildings on the mine site are based on Monarch IP which is manufactured from zinc coated steel, has an IP42 protection and is powdercoated RAL9010 Traffic White.

B&R's design and engineering team were successful in manufacturing and testing a power distribution board that allowed internal connections for earth leakage testing facilities as well as a dedicated terminal for field connections all within the compact size dimensions Worley specified.

### PLC Panels & Local Control Stations

All wiring and electrical integration for the PLC panels and local control stations is carried out at the B&R facility located in Suzhou, China. The Suzhou facility utilises methods, knowledge and experience from the Australian founding company to provide full-service solutions including standard off-the-shelf products, customised and assembled-to-order solutions, fully engineered enclosures, project management, electrical wiring and supply chain management.

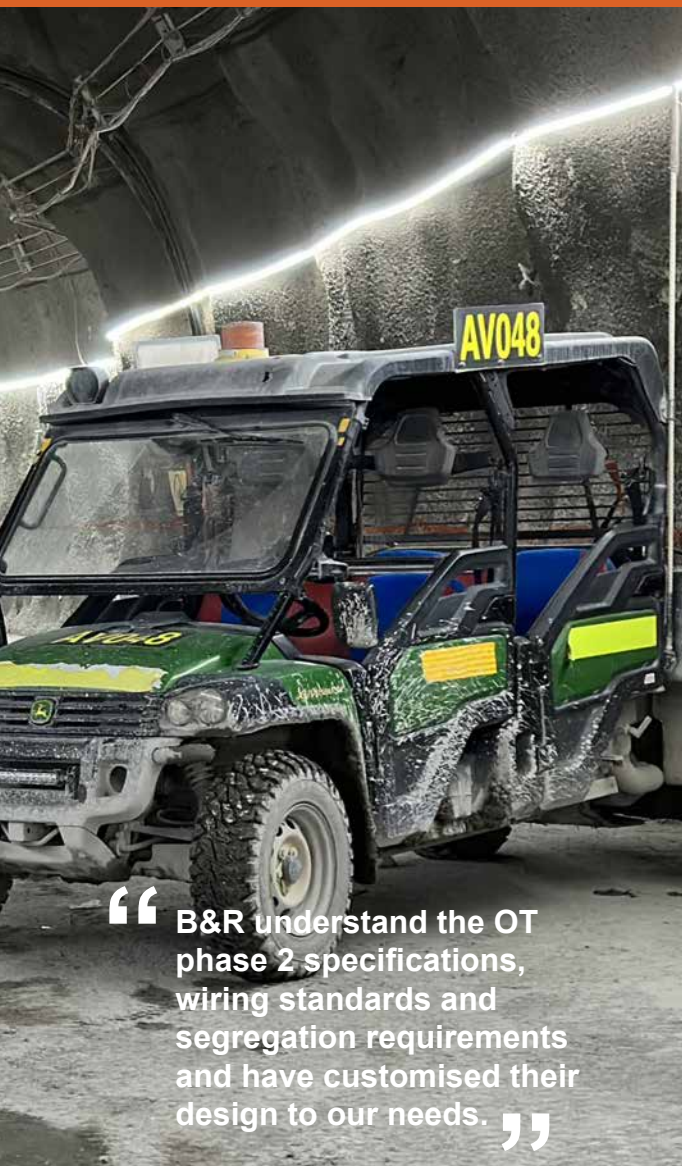
The design for the PLC panels and local control stations to be used outside and underground were a combination between B&R's Bowen Series and Monarch IP enclosures. The 30 degree sloping roof is designed to prevent water and sediment build-up. The sloping roof

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“ B&R is Worley's go-to for achieving Rio Tinto C2 compliance for control panels. ”

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“ B&R understand the OT phase 2 specifications, wiring standards and segregation requirements and have customised their design to our needs. ”



was then combined with the Monarch IP enclosure. Manufactured from 316 stainless steel with an IP66 protection.

The PLC panels which are being used inside buildings on the mine site, is a modified iLINQ bayable cabinet. Manufactured from 1.5mm galvanised steel (frame), 1.6mm zinc coated steel (cladding) and an IP54 protection rating make it suitable for an environment where there is a low level threat of water or dust ingress. Top entry was a specified requirement and a custom gland plate was fitted to the roof.

The local control stations to be used inside buildings located on the mine site have been manufactured using a combination of B&R's standard Monarch IP and Universal NI range. Manufactured from 316 stainless steel with IP66 protection rating.

The project is on-going, during this time B&R will continue to strengthen their working relationship with ABB, Worley, Rio Tinto and our partners. B&R continues to look forward towards providing future projects with 100% fit-for-purpose complete enclosure solutions.



# Our Locations

B&R Enclosures have built a reputation for providing customers with a high standard of design, manufacture and supply of complete enclosure solutions.



## **Australia**

### ***Brisbane (QLD)***

Global head office, manufacturing, sales and warehousing

### ***Sydney, NSW***

Hazardous manufacturing, sales and warehousing

### ***Adelaide, SA***

Manufacturing, sales and warehousing

### ***Townsville (QLD), Newcastle (NSW), Melbourne (VIC), Perth (WA)***

Sales and warehousing

### ***Launceston (TAS), Darwin (NT)***

Distribution

## **New Zealand**

### ***Auckland***

Sales and warehousing

## **Saudi Arabia**

### ***Dammam***

Hazardous manufacturing, sales and warehousing

## **China**

### ***Suzhou***

Manufacturing, sales and warehousing



# Material Selection

At B&R, we choose only the best materials when manufacturing our enclosures. This superior quality ensures you can trust the product and us.

## Aluminium

B&R Enclosures aluminium products are manufactured using a medium strength alloy material that has excellent corrosion resistance and weldability.

Aluminium can be used successfully in coastal applications as well as other general industrial environments. It is also used in food processing applications and can be supplied without finishing to ensure the reliability of materials.

B&R use a variety of aluminium types including 5052 and 5251 with the differences being in the yield strength of the material. All B&R standard products are manufactured using materials that have a temper of H32.

### Yield Strength

Yield strength refers to the indication of maximum stress that can be developed in a material without causing distortion. It is the stress at which a material exhibits a specified, permanent deformation and is an approximation.

In design applications, the yield strength is often used as the upper limit for allowable stress that can be applied. This is specifically important in applications that require precise dimensional tolerances.

## 316 Stainless Steel

The main benefits of using stainless steel are its structural strength, aesthetic appeal and high level of corrosion protection due to naturally occurring chromium-rich oxide film formed on the surface of the steel.

Grade 316 stainless steel can be used successfully in coastal locations where many other grades may experience corrosion due to the higher levels of chloride present in the environment. As the preferred material used in food processing applications, it can be easily cleaned and resists many organic chemicals, dyes and a wide variety of inorganic chemicals.

B&R Enclosures use only the highest quality 316 stainless steel materials, manufacturing and finishing techniques and are accredited by the Australian Stainless Steel Development Association (ASSDA).



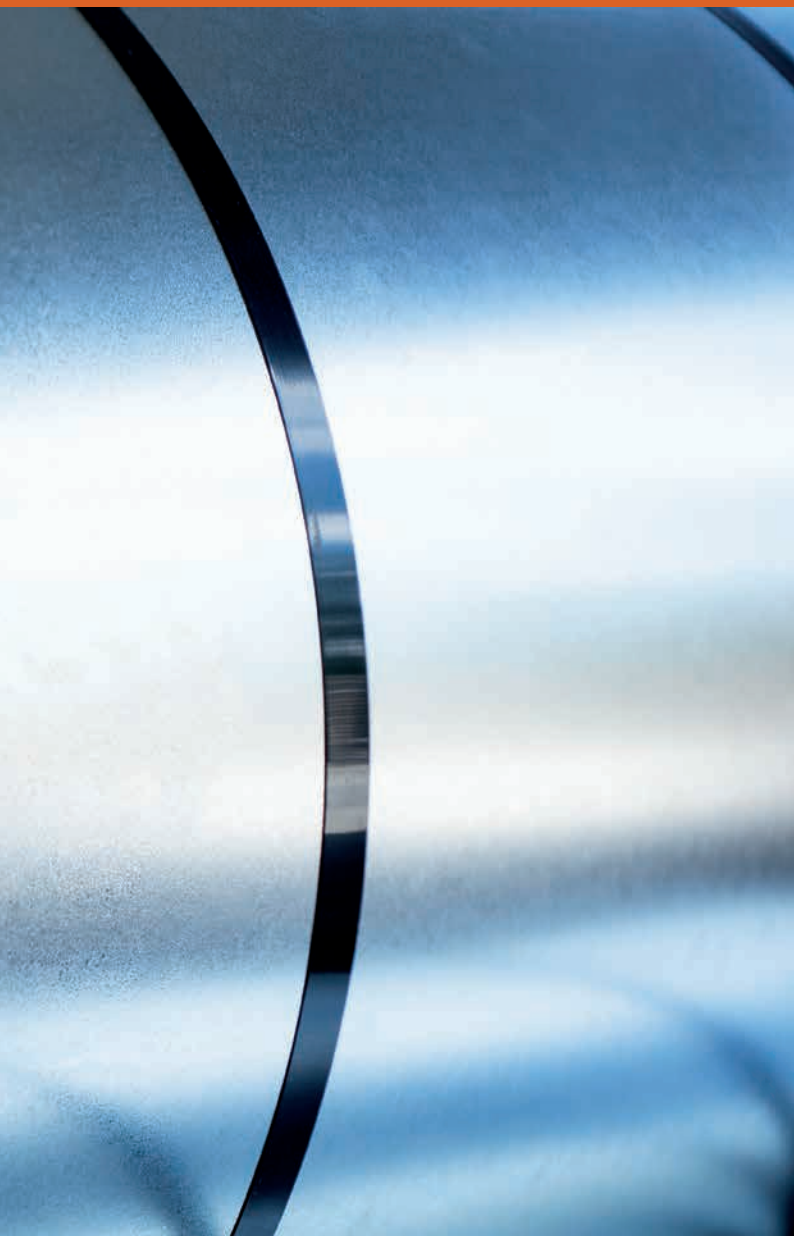
### Surface Finish

We finish our stainless steel products in a way that is aesthetically pleasing and also ensures superior protection. We apply an N4 surface finish, with a maximum Ra of 0.4µm. This Ra rating is a key factor in the corrosion protection and 'cleanability' of our products.

Surface corrosion, often referred to as 'tea staining' is common along the coastal fringe and high salinity areas of Australia. Tea staining is a discolouration of the metal surface which is unsightly, but does not affect the structural integrity of the enclosure.

## Zinc Coated Steel

We use primarily zinc coated steel for our B&R branded products. This is a matte, hot dipped, zinc iron alloy which when combined with chemical pretreatment and powdercoat finish offers the best possible corrosion protection for enclosure systems.



#### Pretreatment

A B&R branded zinc coated steel enclosure is punched, bent, welded and ground on the way through our factory. Following fabrication it goes through an automated process which consists of the following:

- Alkaline cleaner
- Reticulated freshwater rinse
- Iron phosphate coating
- Reticulated freshwater rinse
- Demineralised water with polymer additive

Tiltration tests are also conducted to ensure that the material meets the required specifications.

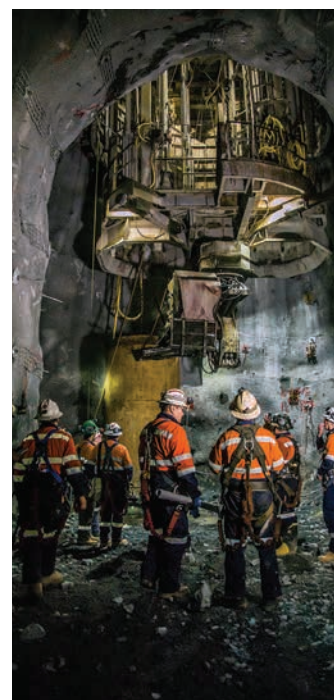
#### Powdercoat Finish

The powdercoat paint is applied at an average coating thickness of 100µm for a ripple finish and 70µm for a gloss. The minimum coating thickness is 60µm on the exterior of the enclosure and 25µm on the interior (conforms to AS/NZS 4506:1998).

#### Testing

The powdercoat paint finish is tested extensively to the following standards and ensure consistent paint finish, both quality and colour, across our range of enclosures.

- Powdercoating thickness test (AS1580.108.1:1994)
- Cure Test, solvent resistance method (AS/NZS4506:1998)
- Adhesion, cross cut test (AS/NZS 1580.408.4:1993)
- Paint colour comparison test (AS2700:1996)



# Paint Colours

We offer a range of standard powdercoat colours on all of our enclosure products. These colours are based on industry standards and allow us to offer our customers a range of products that are easily identifiable in multiple applications. Colour changes to standard product is an optional extra and other colours are available on request so contact us today for more information.



Light Grey  
RAL7035



Pebble Grey  
RAL7032



Orange  
Ripple or Gloss  
X-15



Storm Grey  
Ripple  
N42



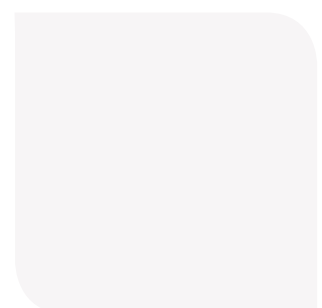
French Blue  
B21



Sahara Ebony  
Black  
Fine texture



Smoke Blue  
Ripple or Gloss  
T33



Pearl White  
Gloss

# Standard Product Solutions



We offer a range of standard enclosures that have been delivering safety for people and protection of equipment for over 60 years.

## Industrial

<b>Universal NI</b> 316SS or zinc coated steel Wall-mounted, built for industrial or demanding environments.  IP 66	<b>Forte FR</b> Carbon steel Wall-mounted, designed to house switchgear or components in various applications.  IP 55	<b>Polynova Series</b> Plastic enclosures suitable for use in general purpose and light industrial applications.  IP 55	<b>Pilbara SP</b> Sunshades, without sunshades and retro-fit sunshades. 	<b>Field FC</b> 316SS, zinc coated steel or aluminium For isolated environments where protecting installed equipment is a major requirement.  IP 66	<b>Connector TE</b> 316SS or zinc coated steel Wall-mounted enclosure when a smaller enclosure is required.  IP 66
<b>Connector TEMF</b> 316 Stainless Steel Wall-mounted enclosure when a smaller enclosure is required.  IP 66	<b>Universal DD</b> 316SS or zinc coated steel Suitable for industrial or demanding conditions.  IP 55	<b>Hedland PH</b> 316 Stainless Steel Designed with a 15° sloping roof, this enclosure is suitable for the harshest Australian environments.  IP 66	<b>Monarch IP</b> 316SS, zinc coated steel or aluminium Premium enclosure suitable for small motor control applications. 	<b>Finucane FI</b> 316 Stainless Steel Designed with a 15° sloping roof, this enclosure is suitable for the harshest Australian environments.  IP 66	<b>Bowen Series</b> 316 Stainless Steel For harsh environments where increased mechanical protection is required.  IP 66
<b>Lambert LB</b> 316 Stainless Steel Designed for applications where the enclosure has a high level of exposure to solar radiation.  IP 66	<b>Miner ME</b> 316 Stainless Steel Wall-mounted enclosure suitable for 1000 Volt applications.  IP 66	<b>iLINQ</b> Zinc coated steel High quality, modular bayable enclosure system that is versatile and simple to install.  IP 55	<b>Monarch SMB</b> 316SS or zinc coated steel Small main boards are enhanced with the addition of vertical and horizontal electricity and distribution requirements. 	<b>Signature SE</b> Zinc coated steel Type-tested, certified solutions for any commercial or industrial electrical installation. 	<b>Incline SR</b> 316 Stainless Steel Designed for rugged industrial applications.  IP 66

## Data ICT

<b>Ausrack Floor</b> Mild Steel 19" light duty network rack solution for small office/home office applications. 	<b>Telecom BD</b> Zinc coated steel Suitable for voice or data cabling for up to 500 pairs at or beyond the network boundary.  UPTO 54	<b>Ausrack Wall</b> Mild Steel Wall-mounted cabinet for use in small networking applications. 	<b>Cable Management</b> Ausrack range of cabinets are enhanced with the addition of vertical and horizontal cable management solutions. 	<b>Ausrack Floor Server</b> Zinc coated steel 19" light duty server cabinet for housing network equipment. 	<b>Ausrack+ Server</b> Zinc coated steel 19" infrastructure rack that combines versatility and strength with easy-to-use features. 
<b>Ausrack+ Network</b> Zinc coated steel 19" racking cabinet designed to accommodate medium to large passive patching networks and active communication equipment. 	<b>Ausrack+ Frame</b> Zinc coated steel Universal, 19" frame that can be configured into suites and clad as per the application requirements. 	<b>Ausrack TxD</b> Zinc coated steel A versatile, 4 post rack suitable for 19", 21", 23" and 26" equipment. Designed for telecommunications exchange and data centre environments. 	<b>Ausrack Power Rails</b> Range of horizontal and vertical basic power rails used for the power distribution inside cabinets and enclosures. 	<b>Ausrack CQR</b> Zinc coated steel Class C & B cabinets suitable for ensuring protection of equipment to government security standards. 	<b>Ausrack Patch</b> Zinc coated steel A 2-post frame designed to provide a functional solution where accessibility is a major requirement. 
<b>Home Networking</b> Zinc coated steel Providing a solution for FTTH connectivity, this range is suitable for both fibre and copper lines. 	<b>Telecommunications</b> Zinc coated steel A range of cabinets and accessories designed for a variety of telecommunications installations. 	<b>Data Cages</b> Zinc coated steel A method of segregating customer racks and equipment into defined zones for a higher level of security in a facility. 	<b>Cold Aisle Containment</b> Zinc coated steel A method of increasing cooling efficiency whilst reducing power consumption. 	<b>Ausrack IP</b> 316SS or Zinc coated steel 19", weatherproof enclosures designed to protect sensitive equipment for harsh environments.  IP 66	

## Hazardous Areas

<b>Ex d Enclosures</b> Aluminium Designed to house terminals, electrical equipment and cable terminations. Suitable for use in hazardous areas with the most demanding conditions. 	<b>Custom 316SS &amp; Control Stations</b> Range includes terminal boxes, control boxes and control stations. 	<b>GRP Control Stations</b> Non-Metallic Range includes terminal boxes, control boxes and control stations. 	<b>GRP Terminal Boxes</b> Non-Metallic Range includes terminal boxes, control boxes and control stations. 	<b>Plug &amp; Socket Outlets</b> Designed to provide electrical connection within a hazardous area for mobile or portable equipment. 	<b>Cable Glands &amp; Accessories</b> A range of cable glands and accessories to suit hazardous area applications. 
<b>Linear LED</b> An LED bar light for use in chemical, petrochemical, dust and grain applications. 	<b>LED Lowbay</b> An LED lowbay for use in chemical, petrochemical, dust and grain applications. 	<b>LED Exit Light</b> Designed for marking escape routes and exits in potentially explosive atmospheres. 	<b>LED Floodlighting</b> These floodlights are designed for lighting areas on site. 	<b>Visual Caution Lights</b> Range includes LED audio and caution lights suitable for hazardous areas. 	

## Residential Commercial

<b>Horizon Series</b> Meets local and Australian standards. Provides a meter box designed for increased safety, performance and quality.  IP 23	<b>Group Metering</b> Suitable for use in multiple tenancy applications. Pre-wired options are also available in some states.  IP 23	<b>Home Networking</b> Zinc coated steel Providing a solution for FTTH connectivity, this range is suitable for both fibre and copper lines. 	<b>Infinity 3G</b> Designed to provide a modular solution for applications up to 630Amp.  IP 66	<b>DIN Enclosures</b> Non-metallic, metal Plastic and metal loadcentres for DIN control equipment.  IP 30	<b>Metal Enclosures</b> A range of enclosures suitable for housing general purpose electrical equipment. 
<b>Hinged Switchboard Frames</b> Suitable for use in internal and switchroom applications.  IP 23	<b>CT Metering</b> Zinc coated steel A range of small main boards and CT chassis systems. 	<b>Covered Links</b> Installation accessories for metering enclosures. 	<b>Uncovered Links</b> Installation accessories for metering enclosures. 		

# Oyu Tolgoi Light & Power Distribution Panels (FRE)

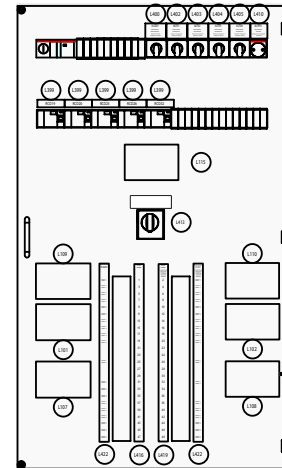
## Flat Roof Internal Enclosures



- Designed to suit light and power specifications of the Oyu Tolgoi mine site.
- Suitable for internal applications.
- 110° door opening.
- Fully welded construction.
- Fixed internals specific to enclosures.
- One (1) tonne rating lifting lugs.
- External wall mounting brackets.
- Integrated earth leakage test circuit.
- Manufactured from 1.6mm thick zinc coated steel.
- Powdercoated Pure White RAL9010.

Comes standard with:

- Steel internals powdercoated RAL9010 or B33
- 3mm stainless steel gland plate mounted externally
- Chrome swing handle padlockable
- Earth strap kit



Hinged Escutcheon OTF48P1408/FF  
(Fully fitted)

### AC DISTRIBUTION PANELS

RATED VOLTAGE	SERVICE VOLTAGE	AUXILIARY VOLTAGE	NO. OF PHASES
400V	400V / 230V	230V, 50Hz	3



This arrangement does not suit DC distribution panels.

### ORDERING GUIDE (FULLY FITTED OUT)

Part Number	Dimensions (mm)			No. of Poles	Horizontal Rows of 33-Modules of DIN	No. of RCBO up to 40Amp
	Height (A)	Width (B)	Depth (C)			
OTF12P1208/FF	1200	800	400	12	2	11
OTF24P1208/FF	1200	800	400	24	2	23
OTF48P1408/FF	1400	800	400	48	2	47
OTF72P1414/FF	1400	1400	400	72	6	71

Fully fitted enclosures come standard with:

- MCCB 250A, 3-Pole Main Switch with locking handle and terminal cover
- Encapsulated chassis 250A MCB
- Earth & Neutral set sized as required
- Surge protection type T2 40kA 3P + N
- Fuse disconnecter 3P + N with fuse
- RCBO 1P 6-40A 10kA C-curve 30mA Type AC BL Neutral
- MCB 1P 2A 10kA C-curve in 12 / 24 / 48-pole for control
- MCB 1P 6A 10kA C-curve in 72-pole for control
- Locking device for MCB in OFF Position
- Emergency light test unit
- Integrated earth leakage test circuit
- Terminal block, double tier, 16mm<sup>2</sup> max terminal with end plate and end stopper



Panels are ONLY supplied fully fitted with all switchgear as listed above. Variations (to standard configurations) will be considered subject to specification review.



# Oyu Tolgoi Light & Power Distribution Panels (FRE) Flat Roof Internal Enclosures



## ACCESSORIES (OPTIONAL)

Product	Description	OTF12P1208	OTF24P1208	OTF48P1408	OTF72P1414*
Plinths	Channel iron	•	•	•	•
Gland Plates	6mm Aluminium	•	•	•	•
	3mm Brass	•	•	•	•
Lock	Keylockable L-Handle (keyed to 92268)	•	•	•	•
Clock	Astronomical Clock Circuit	•	•	•	•

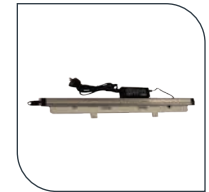
\* OTF72P1414 requires a custom made plinth.



IPPC294

## Light Kits

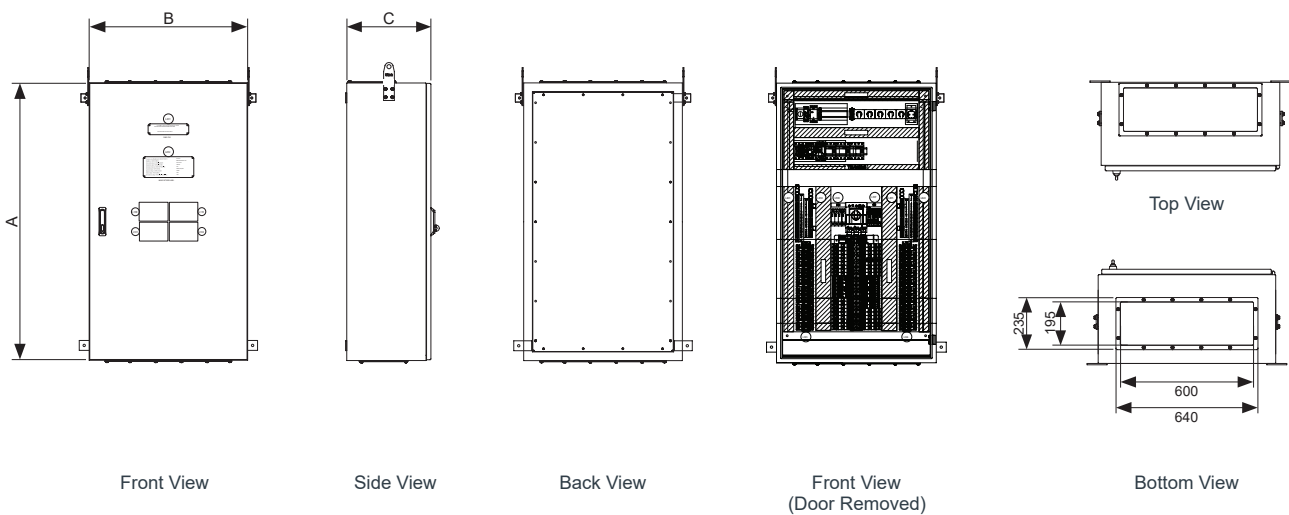
High output, small form factor LED lighting. Up to 4 units can be daisy chained from the one power supply. Allows for the opening of full height swing frames or escutcheons when fitted to the roof. The optional PIR movement sensor can be used for power efficiency as a door switch. All light kits can be mounted directly onto 19" rack rails. In the absence of 19" rack rails a mounting kit is available to suit the enclosure size.



Part Number	Inclusions					Required Mounting Bracket			Width (mm)	Optional
	LED Light	Power Supply	Splitter	Switch	Connectors	IPLKB04	IPLKB06	IPLBK08		
BRLED300	•	•		•		•			400	BRMOT PIR Motion Sensor

Please note that mounting bracket is required for light kits.

## TECHNICAL DRAWINGS (FULLY FITTED OUT)



# Oyu Tolgoi Light & Power Distribution Panels (SRE)

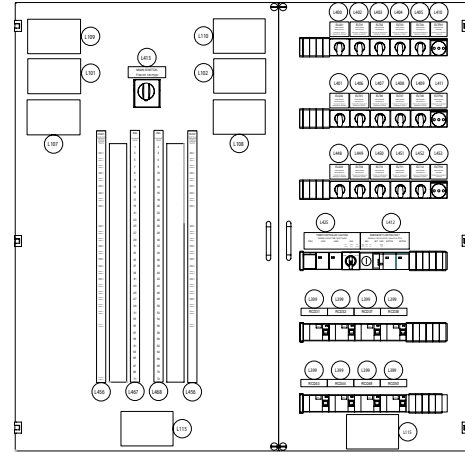
## Sloping Roof Outdoor Enclosures



- Designed to suit light and power specifications of the Oyu Tolgoi mine site.
- Suitable for use in the harshest conditions found at the Oyu Tolgoi mine site and other applications.
- 40° sloping roof with 40mm overhang.
- 110° door opening.
- Fully welded construction.
- Fixed internals specific to enclosures.
- One (1) tonne rating lifting lugs.
- External wall mounting brackets.
- Integrated earth leakage test circuit.
- Manufactured from 2mm 316 stainless steel.
- N4 surface finish.

Comes standard with:

- Steel internals powdercoated RAL9010 or B33
- 3mm stainless steel gland plate mounted externally
- Padlockable swing handle
- Earth strap kit
- Lifting lugs



Hinged Escutcheon Layout OTS72P1414/FF  
(Fully fitted)

### AC DISTRIBUTION PANELS

RATED VOLTAGE	SERVICE VOLTAGE	AUXILIARY VOLTAGE	NO. OF PHASES
400V	400V / 230V	230V, 50Hz	3



This arrangement does not suit DC distribution panels.

### ORDERING GUIDE (FULLY FITTED OUT)

Part Number	Dimensions (mm)			No. of Poles	Horizontal Rows of 33-Modules of DIN	No. of RCBO up to 40Amp
	Height (A)	Width (B)	Depth (C)			
OTS12P1208/FF	1200	800	400	12	2	11
OTS24P1208/FF	1200	800	400	24	2	23
OTS48P1408/FF	1400	800	400	48	2	47
OTS72P1414/FF	1400	1400	400	72	6	71

Fully fitted enclosures come standard with:

- MCCB 250A, 3-Pole Main Switch with locking handle and terminal cover
- Encapsulated chassis 250A MCB
- Busbar, Earth & Neutral set sized as required
- Surge protection type T2 40kA 3P + N
- Fuse disconnecter 3P + N with fuse
- RCBO 1P 6-40A 10kA C-curve 30mA Type AC BL Neutral
- MCB 1P 2A 10kA C-curve
- Locking device for MCB in OFF Position
- Emergency light test unit
- Integrated earth leakage test circuit
- Terminal block, double tier, 16mm<sup>2</sup> max terminal with endplate and end stopper
- Panel light LED 12V with motion sensor
- Anti-condensation heater 300W 230V AC/DC
- Thermostat -10 + 80 AL 110/250V AC NC
- Humidistat 0-60°C 35-95% RH 1CO
- MCB 1P 2A 10kA C-curve in 12 / 24 / 48-pole for control
- MCB 1P 6A 10kA C-curve in 72-pole for control



Panels are ONLY supplied fully fitted with all switchgear as listed above. Variations (to standard configurations) will be considered subject to specification review.

# Oyu Tolgoi Light & Power Distribution Panels (SRE)

## Sloping Roof Outdoor Enclosures



### ACCESSORIES (OPTIONAL)

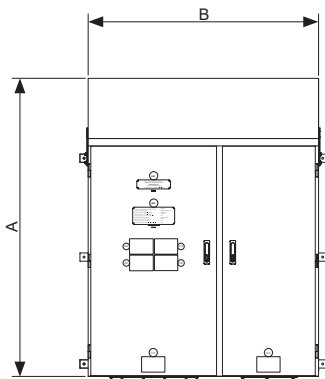
Product	Description	OTS12P1208/S	OTS24P1208/S	OTS48P1408/S	OTS48P1608/S	OTS72P1414/S
Plinths	Channel iron	•	•	•	•	•
Gland Plates	6mm Aluminium	•	•	•	•	•
	3mm Brass	•	•	•	•	•
Clock	Astronomical clock circuit	•	•	•	•	•

\* OTS72P1414 requires a custom made plinth.

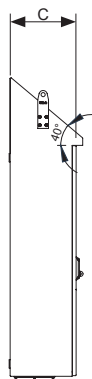


IPPC294

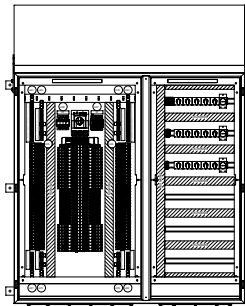
### TECHNICAL DRAWINGS (FULLY FITTED OUT)



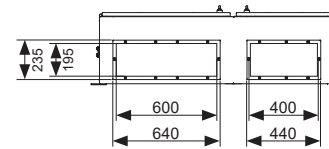
Front View



Side View



Front View  
(Door Removed)



Bottom View  
(Door Removed)

# Oyu Tolgoi Local Control Station (LCS)

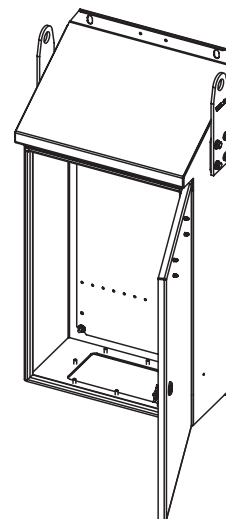
## Sloping Roof Mine Site



- Designed to suit the specifications of the Oyu Tolgoi mine site.
- Suitable for use in the harshest conditions.
- 30° sloping roof to prevent build up of solids.
- 110° door opening.
- Fully welded construction.
- Fixed internals specific to enclosures.
- One (1) tonne rating on lifting lugs (except 300x200x150)
- External wall mounting brackets.
- Manufactured from 2.0mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- Steel internals powdercoated B33
- 3mm brass gland plate mounted externally
- 250Amp (12-pole) earth bar to suit maximum 125mm<sup>2</sup> cable
- ¼ turn lock
- Earth strap kit
- Lifting lugs (except 300x200x150)



### SELECTION GUIDE

Part Number	Type	Dimensions (mm)			10 x 2.5mm Terminals	20 x 2.5mm Terminals	Emergency Stop	Pushbutton	Indicator Light	Rotate Switch	12-Pole Earth Bar	Rows of DIN	Lifting Lugs
		Height	Width	Depth									
OTSLCS1S/FF	LCS1	300	200	150	•		1		1	1	•	1	
OTSLCS2S/FF	LCS2	300	200	150	•			2	1	1	•	1	
OTSLCS3S/FF	LCS3	300	200	150	•			1	1	1	•	1	
OTSLCS4S/FF	LCS4	300	200	150	•			3	1	1	•	1	
OTSLCS5S/FF	LCS5	300	200	150	•		1	2	1	1	•	1	
OTSLCS6S/FF	LCS6	300	200	150	•				1	1	•	1	
OTSLCS7S/FF	LCS7	300	400	200	•		2	1	-		•	2	•



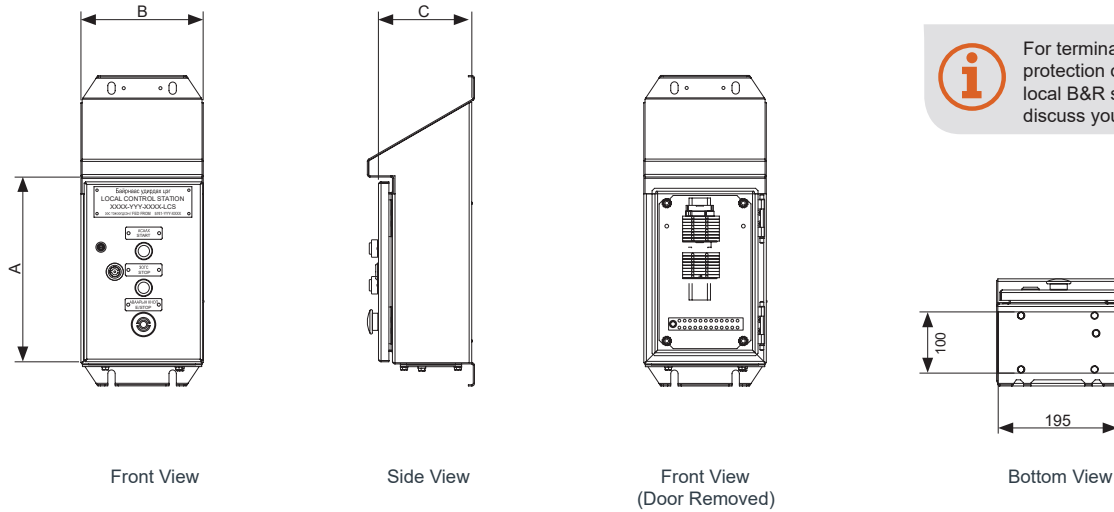
Panels are ONLY supplied fully fitted with all switchgear as listed above. Variations (to standard configurations) will be considered subject to specification review.

# Oyu Tolgoi Local Control Station (LCS)

## Sloping Roof Mine Site



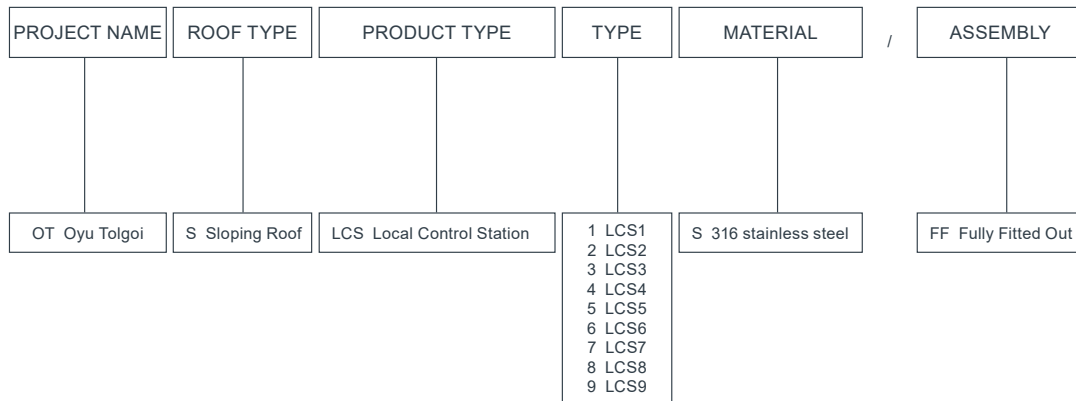
### TECHNICAL DRAWINGS



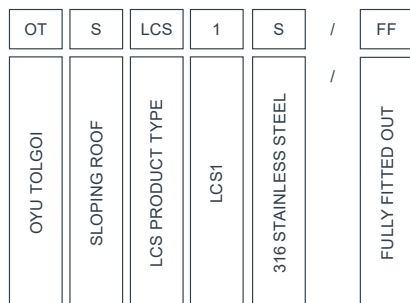
**i** For termination and circuit protection options, contact your local B&R sales representative to discuss your requirements.

### PART NUMBER CONVENTION

There are a number of standard configurations available with this offer. Each type has a unique identification / part number which can be used to identify its core characteristics. Below is an example that explains each part number.



Example:



# Oyu Tolgoi Local Control Station (DSW)

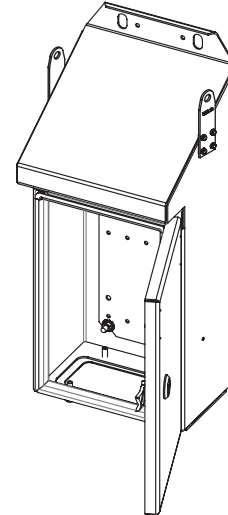
## Sloping Roof Mine Site Disconnecting Switch



- Designed to suit the specifications of the Oyu Tolgoi mine site.
- Suitable for use in the harshest conditions.
- 30° sloping roof to prevent build up of solids.
- 110° door opening.
- Fully welded construction.
- Fixed internals specific to enclosures.
- One (1) tonne rating on lifting lugs.
- External wall mounting brackets.
- Manufactured from 2.0mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- Steel internals powdercoated B33
- 3mm brass gland plate mounted externally
- DeadEasy current sensing device
- ¼ turn lock
- Earth strap kit
- Lifting lugs



### SELECTION GUIDE (FULLY FITTED OUT)

Part Number	Type	Dimensions (mm)			125A Isolator	200A Isolator	Dead Easy	10 x 2.5mm Terminals	20 x 2.5mm Terminals	25 x 2.5mm Terminals	Emergency Stop	Pushbutton	12-Pole Earth Bar	No. of Poles	Rows of DIN	Lifting Lugs
		Height (A)	Width (B)	Depth (C)												
OTSDSW1S/FF	DSW1	400	300	150	•		1	•				-	•	3 or 4	2	•
OTSDSW2S/FF	DSW2	400	400	200	•		1	•			1	2	•	3 or 4	2	•
OTSDSW3S/FF	DSW3	600	400	200		•	1		•		1	2	•	3 or 4	2	•
OTSDSW4S/FF	DSW4	600	400	200		•	1		•		1	4	•	3 or 4	2	•
OTSDSW5S/FF	DSW5	400	400	200	•		1		•		1	3	•	3 or 4	2	•
OTSDSW6S/FF	DSW6	400	400	200	•		1		•			2	•	3 or 4	2	•
OTSDSW7S/FF	DSW7	600	400	200	•		1		•			4	•	3 or 4	2	•
OTSDSW8S/FF	DSW8	400	400	200	•		1			•	1	2	•	3 or 4	2	•
OTSDSW9S/FF	DSW9	600	400	200	•		1		•		-	2	•	3 or 4	2	•



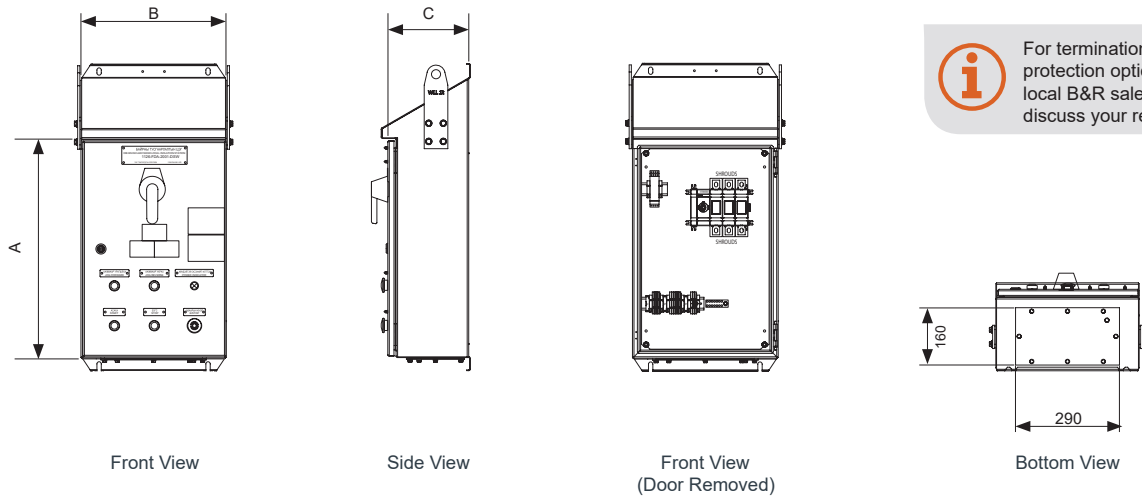
Panels are ONLY supplied fully fitted with all switchgear as listed above. Variations (to standard configurations) will be considered subject to specification review.

# Oyu Tolgoi Local Control Station (DSW)

## Sloping Roof Mine Site Disconnecting Switch



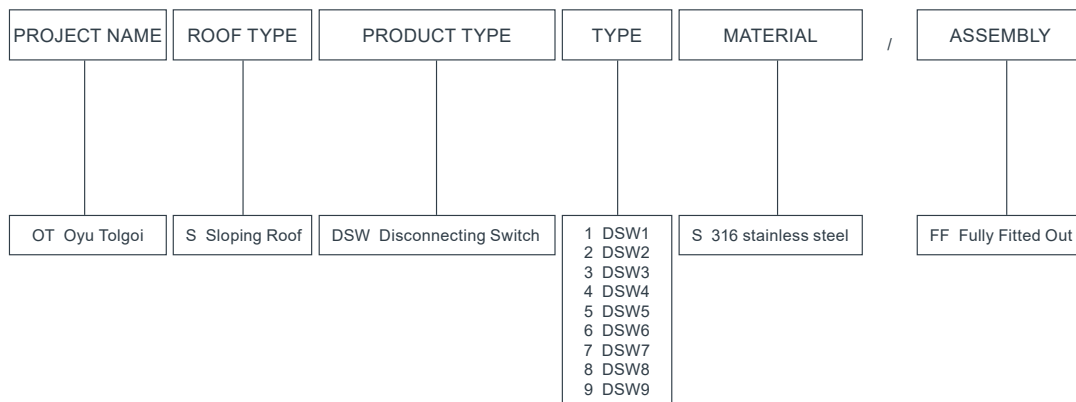
### TECHNICAL DRAWINGS



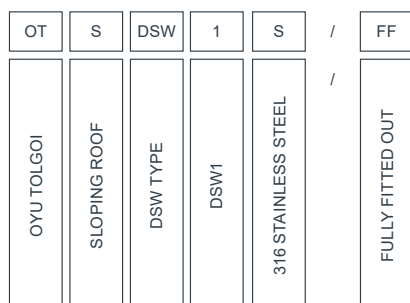
**i** For termination and circuit protection options, contact your local B&R sales representative to discuss your requirements.

### PART NUMBER CONVENTION

There are a number of standard configurations available with this offer. Each type has a unique identification / part number which can be used to identify its core characteristics. Below is an example that explains each part number.



Example:



# Oyu Tolgoi Local Control Station (DSW-INT)

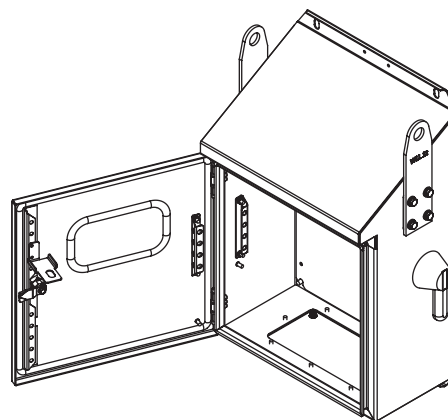
## Sloping Roof Mine Site Disconnecting Switch with Viewing Window



- Designed to suit the specifications of the Oyu Tolgoi mine site.
- Suitable for use in the harshest conditions.
- Side operated handle / switch.
- 110° door opening with front door viewing window.
- Visual load break switch contacts.
- 30° sloping roof to prevent build up of solids.
- Fully welded construction.
- Fixed internals specific to enclosures.
- One (1) tonne rating lifting lugs.
- External wall mounting brackets.
- Manufactured from 2.0mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- Steel internals powdercoated B33
- 3mm brass gland plate mounted externally
- 250Amp (12-pole) earth bar to suit maximum 125mm<sup>2</sup> cable
- ¼ turn lock
- Earth strap kit
- Lifting lugs



### ORDERING GUIDE

Part Number	Type	Dimensions (mm)			125A Isolator	200A Isolator	Dead Easy	10 x 2.5mm Terminals	20 x 2.5mm Terminals	25 x 2.5mm Terminals	Emergency Stop	Pushbutton	Interlock	Viewing Window	12-Pole Earth Bar	No. of Poles	Rows of DIN	Lifting Lugs
		Height	Width	Depth														
OTSWSW1VS/FF	DSW1	400	400	200	•		1	•				-	1	1	•	3 or 4	2	•
OTSWSW2VS/FF	DSW2	400	400	200	•		1	•		1	1	1	1	•	3 or 4	2	•	
OTSWSW3VS/FF	DSW3	600	400	200		•	1	•		1	2	1	1	•	3 or 4	2	•	
OTSWSW4VS/FF	DSW4	600	400	200		•	1	•		1	4	1	1	•	3 or 4	2	•	
OTSWSW5VS/FF	DSW5	400	400	200	•		1	•			3	1	1	•	3 or 4	2	•	
OTSWSW6VS/FF	DSW6	400	400	200	•		1	•			2	1	1	•	3 or 4	2	•	
OTSWSW7VS/FF	DSW7	600	400	200	•		1	•			4	1	1	•	3 or 4	2	•	
OTSWSW8VS/FF	DSW8	400	400	200	•		1		•	1	2	1	-	•	3 or 4	2	•	
OTSWSW9VS/FF	DSW9	600	400	200	•		1	•		-	2	1	-	•	3 or 4	2	•	



Panels are ONLY supplied fully fitted with all switchgear as listed above. Variations (to standard configurations) will be considered subject to specification review.

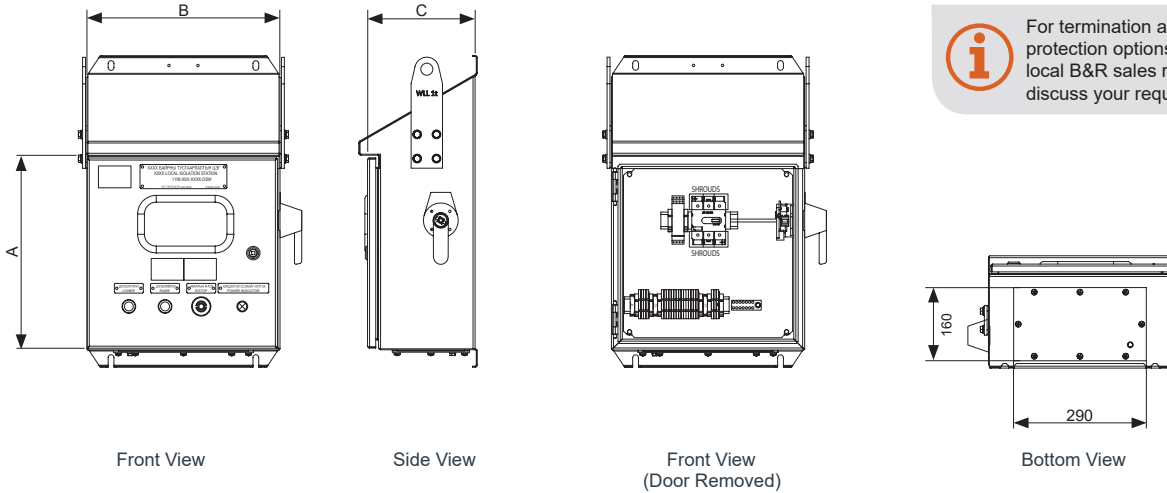


# Oyu Tolgoi Local Control Station (DSW-INT)

## Sloping Roof Mine Site Disconnecting Switch with Viewing Window



### TECHNICAL DRAWINGS



**i** For termination and circuit protection options, contact your local B&R sales representative to discuss your requirements.

### PART NUMBER CONVENTION

There are a number of standard configurations available with this offer. Each type has a unique identification / part number which can be used to identify its core characteristics. Below is an example that explains each part number.

PROJECT NAME	ROOF TYPE	PRODUCT TYPE	TYPE	DOOR	MATERIAL
OT Oyu Tolgoi	S Sloping Roof	DSW Disconnecting Switch	1 DSW1 2 DSW2 3 DSW3 4 DSW4 5 DSW5 6 DSW6 7 DSW7 8 DSW8 9 DSW9	V Visual Load Break Switch / Viewing Window	S 316 stainless steel

Example:

OT	S	DSW	1	V	S	/	FF
OYU TOLGOI	SLOPING ROOF	DSW PRODUCT TYPE	DSW1	VISUAL LOAD BREAK SWITCH / VIEWING WINDOW	316 STAINLESS STEEL	/	FULLY FITTED OUT

# Oyu Tolgoi Single Door (PLC/IOP)

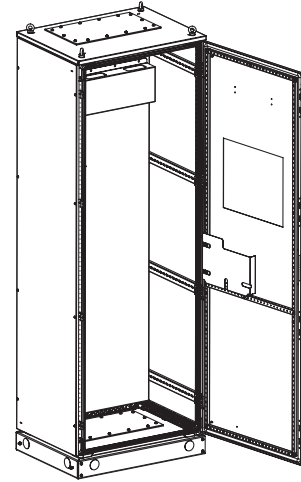
Flat Roof Indoor Environments



- Designed to suit the specifications of the Oyu Tolgoi mine site.
- Based on standard iLINQ product range (refer to iLINQ catalogue).
- Frame construction.
- Fixed internals specific to enclosures.
- Manufactured from 1.6mm thick zincanneal.
- Powdercoated Traffic White RAL9010.

Comes standard with:

- Steel internals powdercoated B33
- 6mm brass gland plate mounted internally
- Earth strap kit



## SELECTION GUIDE

Part Number	Dimensions (mm)		
	Height	Width	Depth
LQE140806	1400	800	600
LQE160806	1600	800	600
LQE180806	1800	800	600
LQE200806	2000	800	600
LQE220806	2200	800	600
OTFPLC2208	2200	800	600
OTFPLC2208-HMI	2200	800	600



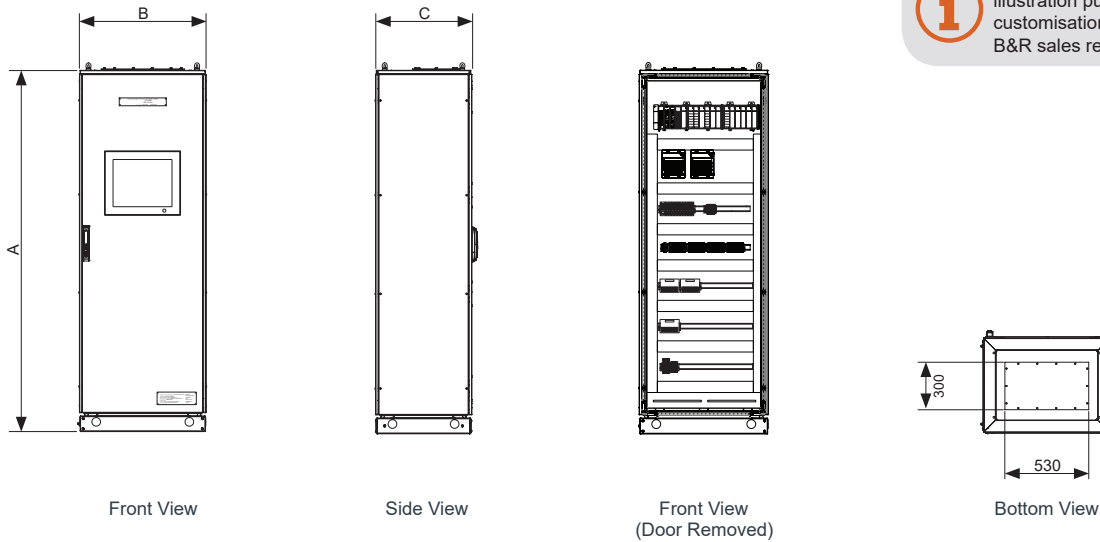
Panels are ONLY supplied fully fitted with all switchgear as listed above. Variations (to standard configurations) will be considered subject to specification review.

# Oyu Tolgoi Single Door (PLC/IOP)

## Flat Roof Indoor Environments



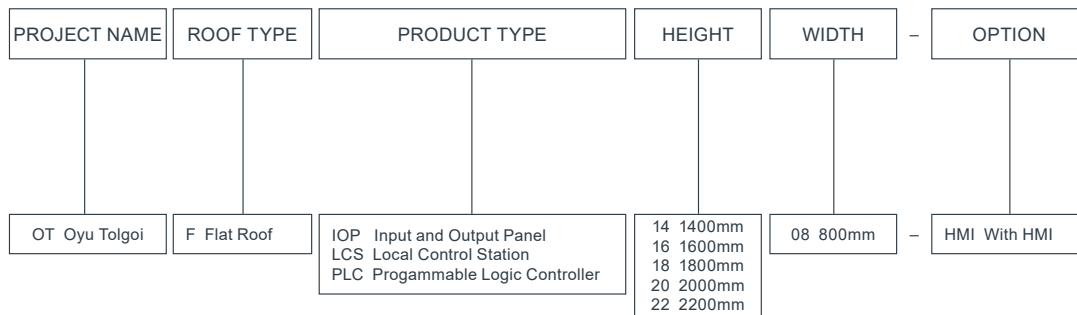
### TECHNICAL DRAWINGS



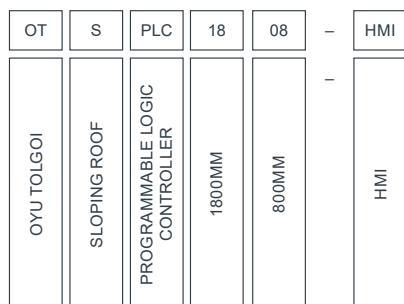
**i** General arrangements are for illustration purposes only. For customisation, please contact your local B&R sales representative.

### PART NUMBER CONVENTION

There are a number of standard configurations available with this offer. Each type has a unique identification / part number which can be used to identify its core characteristics. Below is an example that explains each part number.



Example:



# Oyu Tolgoi Double Door (PLC/IOP)

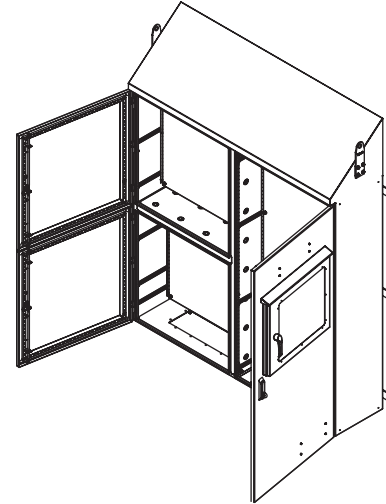
## Sloping Roof Outdoor or Underground Environments



- Designed to suit the specifications of the Oyu Tolgoi mine site.
- Suitable for use in the harshest conditions.
- 40° sloping roof to prevent build-up of solids.
- 180° door opening.
- Fully welded construction.
- Fixed internals specific to enclosures.
- One (1) tonne rating lifting lugs.
- External wall mount brackets.
- Manufactured from 2.0mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- Steel internals powdercoated B33
- 6mm brass gland plate mounted internally
- 3-point locking
- Earth strap kit
- Lifting lugs



### SELECTION GUIDE

Part Number	Dimensions (mm)		
	Height	Width	Depth
OTFPLC0806/S	800	600	300
OTFPLC1814/S	1800	1400	400
OTFPLC1616/S	1600	1600	400
OTFPLC1616/S-HMI	1600	1600	400
OTFPLC1814/S-HMI	1800	1400	400



Panels are ONLY supplied fully fitted with all switchgear as listed above. Variations (to standard configurations) will be considered subject to specification review.

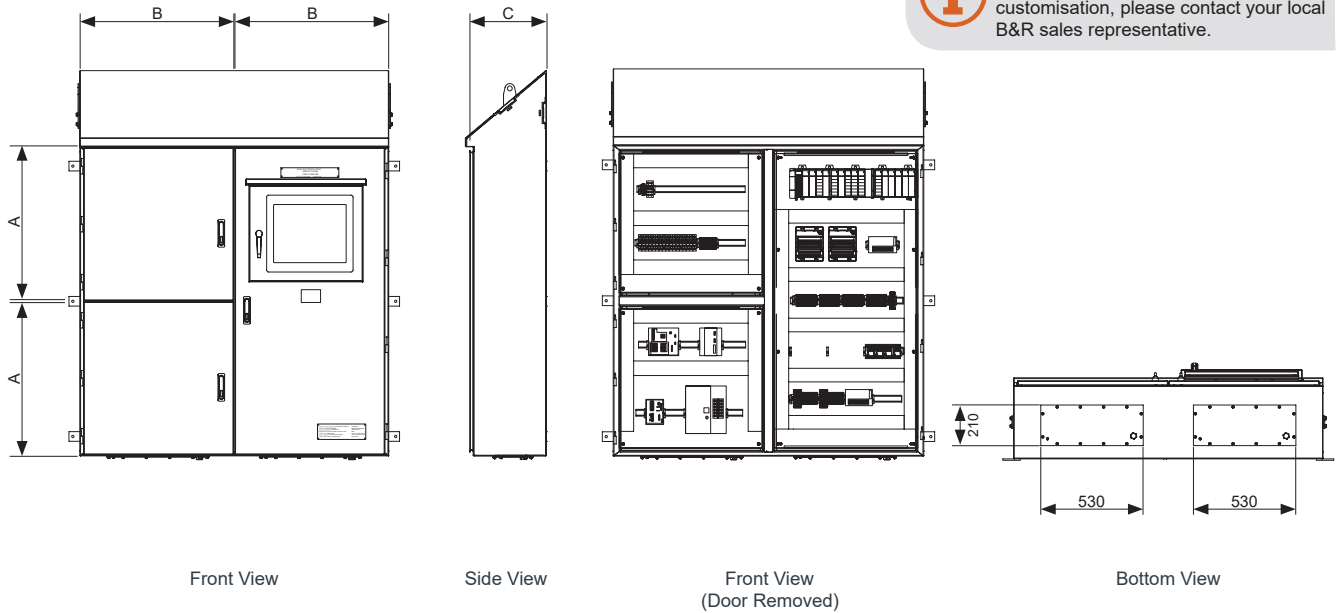
# Oyu Tolgoi Double Door (PLC/IOP)

## Sloping Roof Outdoor or Underground Environments



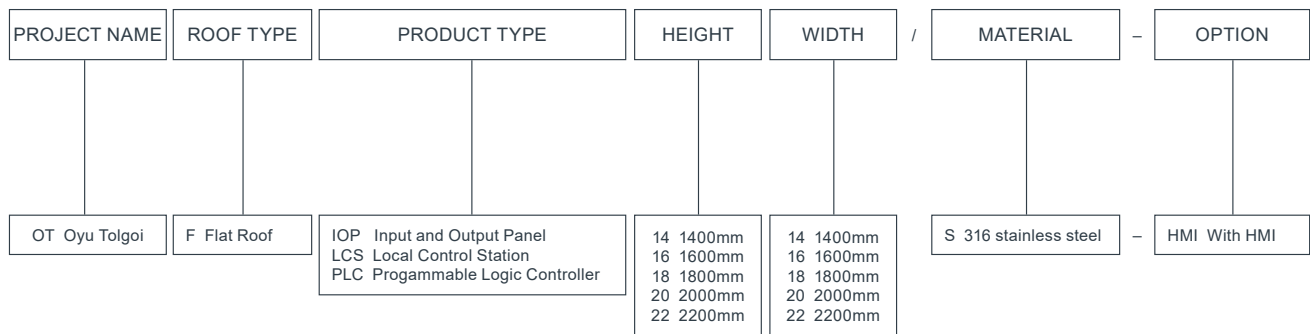
### TECHNICAL DRAWINGS

**i** General arrangements are for illustration purposes only. For customisation, please contact your local B&R sales representative.

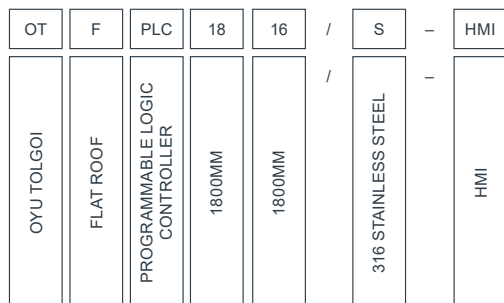


### PART NUMBER CONVENTION

There are a number of standard configurations available with this offer. Each type has a unique identification / part number which can be used to identify its core characteristics. Below is an example that explains each part number.



Example:



# Oyu Tolgoi Single Door Fire Alarm Panels (FAP)

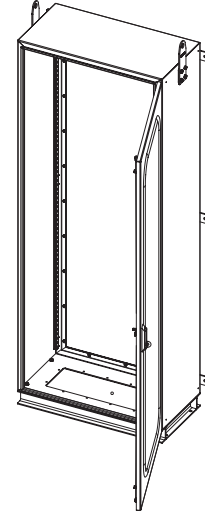
Flat Roof with Full Viewing Window



- Designed to suit the specifications of the Oyu Tolgoi mine site.
- To house 2 x fire alarm panels plus detector systems.
- 110° door opening.
- Fully welded construction.
- One (1) tonne rating lifting lugs
- External wall mounting brackets.
- Manufactured from 2.0mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- Steel internals powdercoated traffic white RAL9010 or mist blue B33
- Metal mounting pan mounted internally
- 6mm brass gland plate mounted externally
- Full size polycarbonate viewing window
- Stainless steel swing handle padlockable
- 75mm hot dip galvanised channel iron plinth
- Earth strap kit
- Lifting lugs

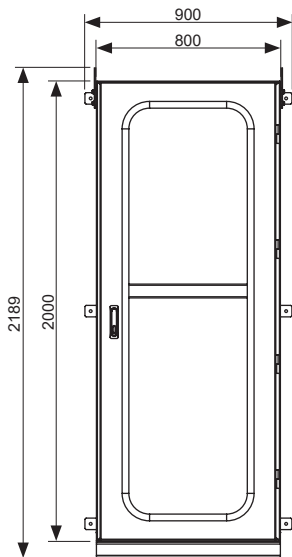


## SELECTION GUIDE

Part Number	Dimensions (mm)		
	Height	Width	Depth
OTFWIN2008/S	2000	800	400

Please note: Part numbers are for metal ware parts only.

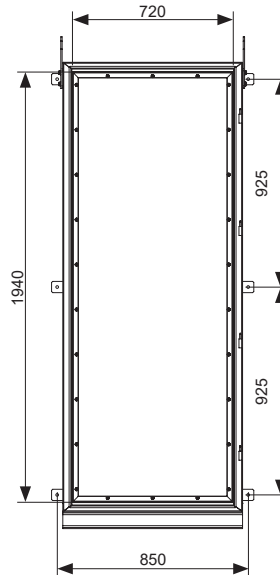
## TECHNICAL DRAWINGS



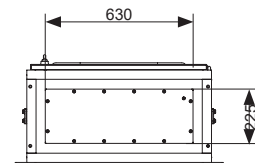
Front View



Side View



Front View  
(Door Removed)



Bottom View

# Oyu Tolgoi Single Door Fire Alarm Panels (FAP)

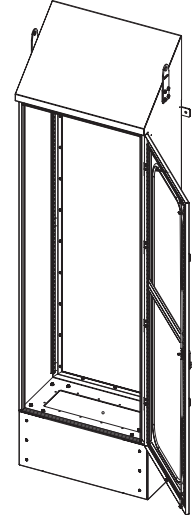
Sloping Roof with Full Viewing Window



- Designed to suit the specifications of the Oyu Tolgoi mine site.
- To house 2 x fire alarm panels plus detector systems.
- 40° sloping roof to prevent build up of solids.
- 110° door opening.
- Fully welded construction.
- One (1) tonne rating lifting lugs
- External wall mounting brackets.
- Manufactured from 2.0mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- Steel internals powdercoated traffic white RAL9010 or mist blue B33
- Metal mounting pan mounted internally
- 6mm brass gland plate mounted externally
- Full size polycarbonate viewing window
- Stainless steel swing handle padlockable
- 350mm stainless steel access plinth
- Earth strap kit
- Lifting lugs

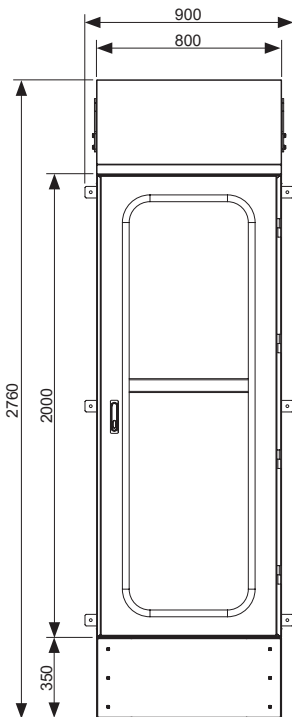


## SELECTION GUIDE

Part Number	Dimensions (mm)		
	Height	Width	Depth
OTSWIN2008/S	2000	800	400

Please note: Part numbers are for metal ware parts only.

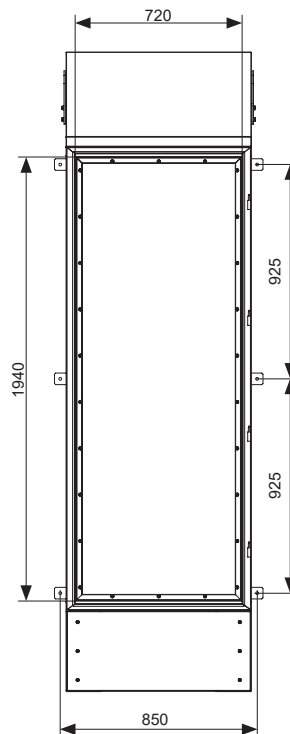
## TECHNICAL DRAWINGS



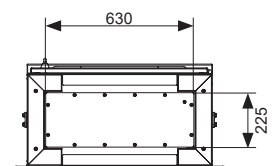
Front View



Side View



Front View  
(Door Removed)



Bottom View

# Oyu Tolgoi Double Door Fire Alarm Panels (FAP)

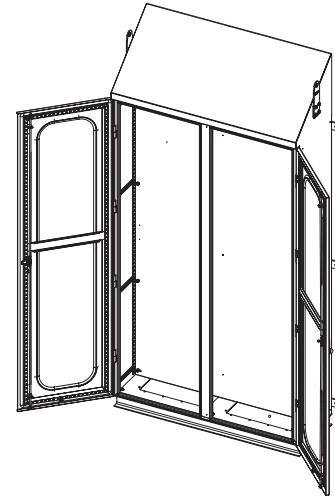
## Sloping Roof with Full Viewing Window



- Designed to suit the specifications of the Oyu Tolgoi mine site.
- To house 3 x fire alarm panels plus detector systems.
- 40° sloping roof to prevent build up of solids.
- 110° door opening.
- Fully welded construction.
- One (1) tonne rating lifting lugs
- External wall mounting brackets.
- Manufactured from 2.0mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- Steel internals powdercoated traffic white RAL9010 or mist blue B33
- Metal mounting pan mounted internally
- 6mm brass gland plate mounted externally
- Full size polycarbonate viewing window
- Stainless steel swing handle padlockable
- 75mm hot dip galvanised channel iron plinth
- Earth strap kit
- Lifting lugs

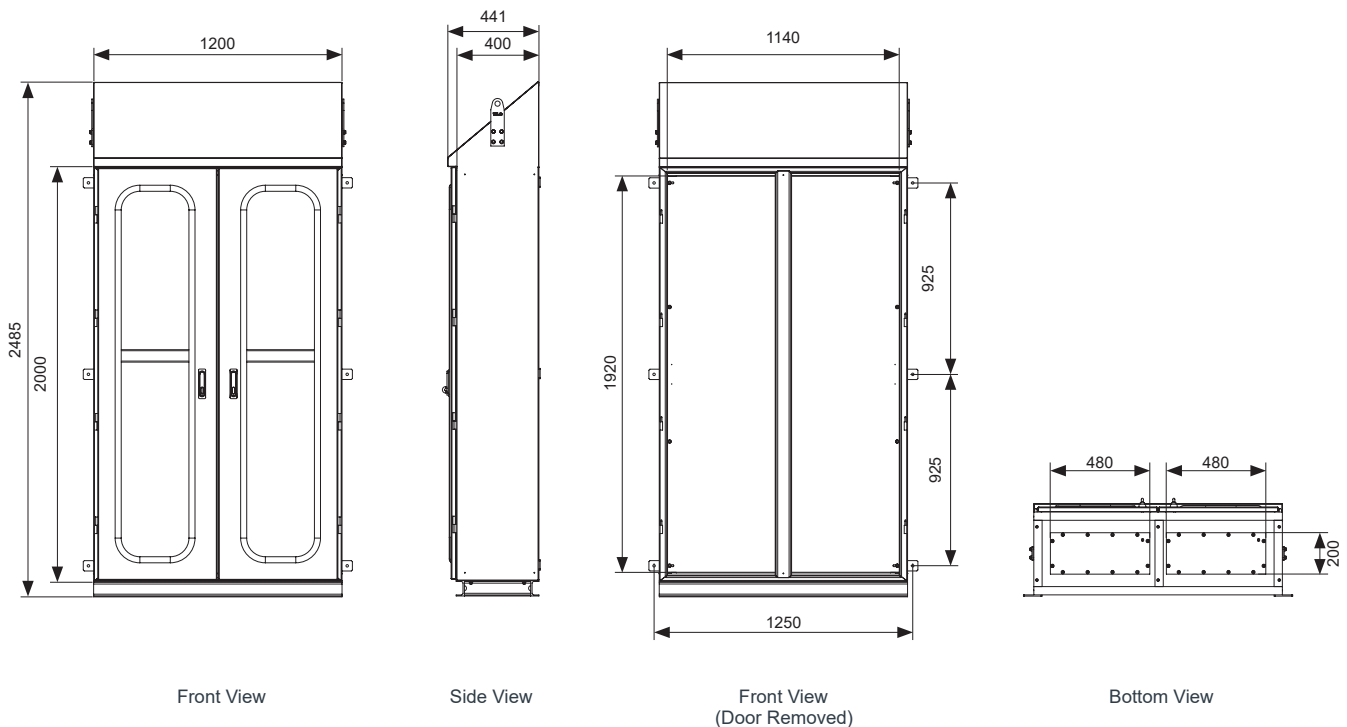


### SELECTION GUIDE

Part Number	Dimensions (mm)		
	Height	Width	Depth
OTSWIN2012/S	2000	1200	400

Please note: Part numbers are for metal ware parts only.

### TECHNICAL DRAWINGS











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