



**B&R Enclosures**

# **Flat Roof Enclosures**

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

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# About B&R Enclosures

Since 1955, B&R Enclosures has built a reputation for excellence in design and production, culminating in our position as Australia's largest enclosure manufacturer and electrical equipment integration specialist.

As an independent, 100% Australian family owned and operated business, we champion the virtues of quality, innovation, service and value. The emphasis on these aspects has sustained B&R's growth leading to Australian manufacturing and distribution facilities in Brisbane, Adelaide and Sydney and internationally in China and Saudi Arabia.

B&R's knowledge, precision, quality and unwavering commitment to creating repeatable solutions for our clients supports our position as preferred manufacturer for many private, government and commercial projects in some of Australia's harshest environments.

Our unrivalled industry and application knowledge puts us in a unique position to meet the needs of our clients. The business encompasses four divisions: Industrial, Data ICT, Hazardous Areas and Residential Commercial. Each division focuses on the unique needs of different market segments.

B&R regularly works with partners to provide integrated solutions for major infrastructure and mining projects. These include 'plug and play' switchboard solutions for Rio Tinto's Oyu Tolgoi mine, control stations for Ichthys on-shore LNG processing plant and Australia's NBN Rollout. Ongoing relationships and collaboration are results of our ability to articulate the customer's problem and combine previous experience and knowledge with compliance to local standards.

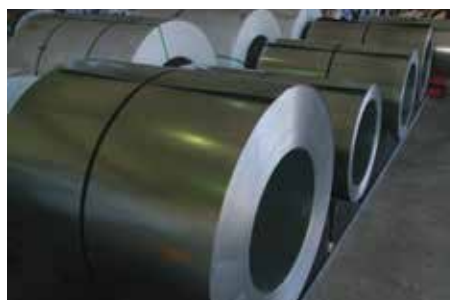
Electrical integration involves the installation, commissioning and testing of 3rd party components and we are adept at managing the acquisition and storage of technical components through a global supply chain that is structured, customised, agile, repeatable and results-based.

Project management and execution is effectively managed at B&R by the co-location of design, supervision, supply coordination and quality control along with manufacturing. Our incorporation of Industry 4.0 delivers real-time data to our project management teams, built around the requirements of individual projects.

Extensive investment in research and development includes an environmental testing facility focussing on climate control to support cooling solutions for equipment exposed to high ambient temperatures and solar radiation.

When utilised as designed, B&R's enclosures are built to out-perform against expectations.

Contact us today to find out how B&R can deliver reliable and trusted outcomes for your project.



# Our Locations



B&R Enclosures have purpose-built manufacturing facilities in three locations across Australia, as well as strategic locations in the Gulf and China.



## 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



# Our Capabilities

Over the years as the company has grown, we have invested significantly in machinery, technology and testing to be able to provide capabilities which our customers benefit from in every order they place. Our current capabilities include:

- Purpose-built Australian facilities in Brisbane (18,000m<sup>2</sup>), Adelaide (4,000m<sup>2</sup>) and Sydney (1,874m<sup>2</sup>), providing local labour and logistics
- Complete in-house design and engineering services to assist with creating custom solutions
- End-to-end manufacturing, from coiled steel raw material to commissioning the end product, we provide efficiency and complete quality control
- Variety of substrates and high quality finishes including stainless steel, powder coated and zinc to suit even the most demanding application
- Modern machinery for any design to be formed and fabricated including automated sheet metal panel benders, punching and shearing centres, electrical equipment integration lines, press brakes, powder coat lines, fabrication cells and assembly lines
- Fully documented process available with full configuration management to support a detailed documentation experience
- Complete project management including supply chain, warehousing and logistics
- In-house and external testing for hazardous area electrical equipment and impact, IP, type testing, static load, seismic, wind load, salt spray, line inspection, shock, vibration, EMC and MIL-STD
- Continuous improvement with our environmental testing facility for ongoing research and development
- Existing supply agreements with leading OEMs and major raw products distributors supporting loyal and valued relationships.

## Our Supply Strategies



### Made to Stock

These products are available ex stock from all our sales & warehousing branches. Contact your local sales representative to discuss requirements.



### Assembled-to-Order

These products are assembled to order upon receipt of a customer order. All components required to build an ATO item cannot be sold separately and must form part of a kit. Standard lead time is 4-6 weeks from date of order.



### Made to Order

These products are manufactured according to a customer's specification. They are marked in our catalogues as "▲ Available on request" and have a standard lead time of 2-3 weeks.



### Engineered-to-Order

These products are a custom designed product that is 100% fit-for-purpose, delivered on-site and ready for installation. Our design & engineering team can customise an enclosure to suit the application requirements. Contact us for more information.

# Customisable Project Services



## Collaboration

- Convert customer requirements to product build specifications
- Work to customer delivery schedule
- Initiate procurement or consignment of stock allocations
- Supply of equipment configuration

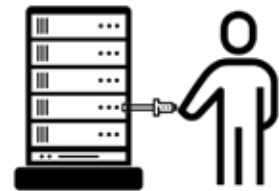


## Complete Project Management

- One point of contact
- Responsive communication channels
- DIFOTIS - Delivered In Full On Time In Specification
- Accountability for the delivery of our commitment to customers

## Electrical & Equipment Integration

- Wiring and equipment installed to exact requirements
- Management of free issue, consigned and/or B&R sourced components and equipment
- Stock reporting and job allocation



## Testing & Reporting To Customer Specifications

- Digital reports of product testing and acceptance
- Serialised codes to customer requirements, digital signature, component traceability and unique identifiers
- Real time quality assurance authorisation, approval and confirmation

## Customer Specific Logistics

- Storage and warehouse management
- Site delivery logistics
- Option for removal of product packaging after installation



# The B&R Engagement Loop

## (Project Services)

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 ensures we understand and provide value as our customer's needs vary greatly across the different types of project application and technical requirements.

Our first action before we reach out to or after a customer had reached out to us, is to **INVESTIGATE**. This includes researching the customer/ project and any other relevant stakeholders.

1. 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.

2. 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.
3. 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.
4. 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.
5. 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.





## Our Customers



# BHP

# RioTinto



## Accreditations & Compliance

At B&R, quality and value are just the beginning. We strive to deliver quality products developed and manufactured by a team dedicated to excellence, backed by standards, approvals and industry accreditations.



ISO 9001:2015

Every B&R Enclosures manufacturing facility is externally audited to ensure that the quality of our products meet the stringent ISO9001 standards. B&R's products are carefully inspected at the end of lines during the manufacturing process to ensure that the enclosures will withstand their intended environment and application.



ISO 14001:2015

Sets out the criteria for an environmental management system. It maps out a framework that a company or organisation can follow to set up an effective environmental management system.



ISO 45001:2018

An externally audited Occupational Health and Safety Management System.



RoHS

The RoHS directive aims to restrict certain dangerous substances commonly used in electronic equipment.



Australian Stainless Steel  
Development Assoc.

ASSDA

The Australian Stainless Steel Development Association provides comprehensive technical information on stainless steel. This includes information for users, equipment manufacturers and stainless steel suppliers.

# Monarch IP – Zinc Coated Steel

## Industrial Enclosures and Switchboard Building Systems



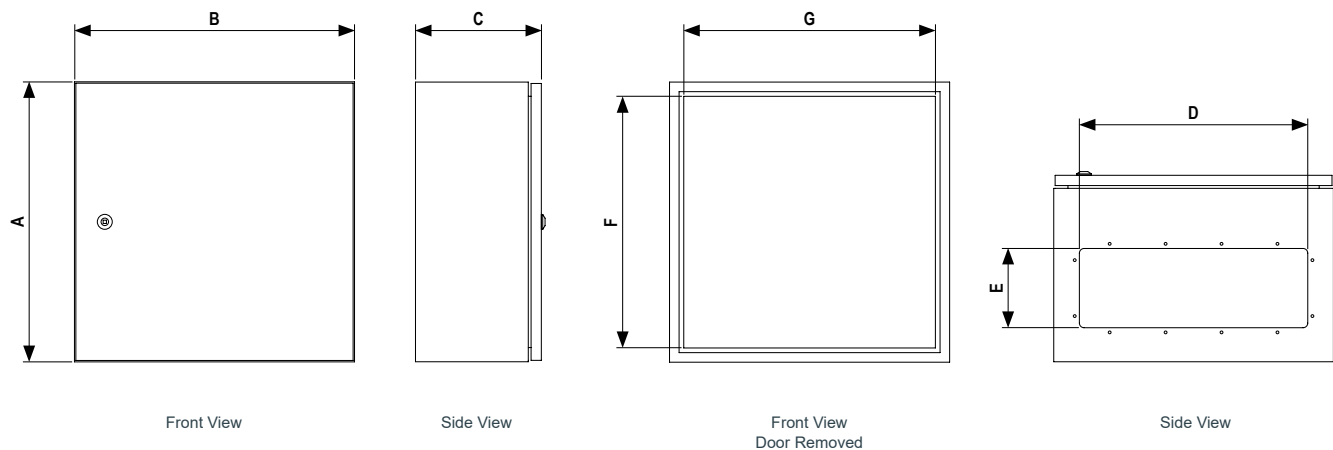
- Suitable for small motor control applications, lighting, CT metering and smaller switchboard applications.
- Premium enclosure and switchboard building system designed to be the ultimate in flexibility.
- Conformity, Approvals:  
Lloyds Register #06/10007 (E2)
- Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
- Manufactured from 1.6mm thick zinc coated steel.
- Powdercoated Pebble Grey RAL7032 or X15 Orange.

Comes standard with:

- 'C' rail mountings (4 rails on heights up to 1000mm and 8 rails on 1200mm and above)
- Gland plate (fitted internally or externally)
- Chromed steel lock with 7mm square steel insert (IP020) on units below 1600mm high and lockable L handles (IP050) on others
- 3-point locking on units of 600mm high and above
- Removable back on units 400mm deep and deeper
- Door rails and earth strap kit



### TECHNICAL DRAWINGS



### ACCESSORIES QUICK SELECTION

| Accessories                     | Page No. | Accessories                | Page No. | Accessories         | Page No. |
|---------------------------------|----------|----------------------------|----------|---------------------|----------|
| Rainhoods                       | 22       | Escutcheon Rails           | 26       | Universal Rails     | 30       |
| Gland Plates                    | 22       | Fixed Escutcheons          | 27       | 19" Mounting Rails  | 30       |
| Plinths                         | 23       | Mounting Brackets          | 27       | Laptop Lectors      | 30       |
| Vent Kits                       | 23       | Universal Rail Kits        | 28       | Document Holders    | 31       |
| Vent Hoods                      | 24       | Door Stays                 | 28       | Schedule Holders    | 31       |
| Mounting Pans                   | 24       | Eye Bolts                  | 28       | Backmount Frame     | 31       |
| Insulated Mounting Panels       | 25       | Shelves                    | 29       | Load Centre         | 31       |
| Double Hinged Insulating Panels | 25       | DIN Rails                  | 29       | General Accessories | 32       |
| Hinged Escutcheons              | 26       | Standard Rails – C Section | 30       | Locks               | 33       |

### ORDERING GUIDE

|                      |                         | Dimensions (mm) |              |              |               |              |               |              | Material Thickness<br>(mm) | Weight (kg) |
|----------------------|-------------------------|-----------------|--------------|--------------|---------------|--------------|---------------|--------------|----------------------------|-------------|
| Part Number          | Part Number             | External        |              |              | Gland Opening |              | Opening       |              |                            |             |
|                      |                         | Height<br>(A)   | Width<br>(B) | Depth<br>(C) | Width<br>(D)  | Depth<br>(E) | Height<br>(F) | Width<br>(G) |                            |             |
| IP13132              | IP13132/RO <sup>▲</sup> | 400             | 400          | 270          | 250           | 120          | 340           | 340          | 1.2                        | 13.0        |
| IP21132              | IP21132/RO <sup>▲</sup> | 600             | 400          | 270          | 250           | 120          | 540           | 340          | 1.2                        | 17.0        |
| IP13212              | IP13212/RO <sup>▲</sup> | 400             | 600          | 270          | 440           | 120          | 340           | 540          | 1.6                        | 17.0        |
| IP21212              | IP21212/RO <sup>▲</sup> | 600             | 600          | 270          | 440           | 120          | 540           | 540          | 1.6                        | 22.0        |
| IP29212              | IP29212/RO <sup>▲</sup> | 800             | 600          | 270          | 440           | 120          | 740           | 540          | 1.6                        | 28.0        |
| IP37212              | IP37212/RO <sup>▲</sup> | 1000            | 600          | 270          | 440           | 120          | 940           | 540          | 1.6                        | 33.0        |
| IP45212              | IP45212/RO <sup>▲</sup> | 1200            | 600          | 270          | 440           | 120          | 1140          | 540          | 1.6                        | 38.0        |
| IP21292              | IP21292/RO <sup>▲</sup> | 600             | 800          | 270          | 440           | 120          | 540           | 740          | 1.6                        | 28.0        |
| IP13214              | IP13214/RO <sup>▲</sup> | 400             | 600          | 400          | 490           | 170          | 340           | 540          | 1.6                        | 21.0        |
| IP21214              | IP21214/RO <sup>▲</sup> | 600             | 600          | 400          | 490           | 170          | 540           | 540          | 1.6                        | 27.0        |
| IP29214              | IP29214/RO <sup>▲</sup> | 800             | 600          | 400          | 490           | 170          | 740           | 540          | 1.6                        | 28.0        |
| IP45214              | IP45214/RO <sup>▲</sup> | 1200            | 600          | 400          | 490           | 170          | 1140          | 540          | 1.6                        | 45.0        |
| IP61214              | IP61214/RO <sup>▲</sup> | 1600            | 600          | 400          | 490           | 170          | 1540          | 540          | 1.6                        | 57.0        |
| IP69214              | IP69214/RO <sup>▲</sup> | 1800            | 600          | 400          | 490           | 170          | 1740          | 540          | 1.6                        | 63.0        |
| IP77214              | IP77214/RO <sup>▲</sup> | 2000            | 600          | 400          | 490           | 170          | 1940          | 540          | 1.6                        | 69.0        |
| IP25254              | IP25254/RO <sup>▲</sup> | 700             | 700          | 400          | 490           | 170          | 640           | 640          | 1.6                        | 33.0        |
| IP37254              | IP37254/RO <sup>▲</sup> | 1000            | 700          | 400          | 490           | 170          | 940           | 640          | 1.6                        | 43.0        |
| IP21294              | IP21294/RO <sup>▲</sup> | 600             | 800          | 400          | 490           | 170          | 540           | 740          | 1.6                        | 33.0        |
| IP29294              | IP29294/RO <sup>▲</sup> | 800             | 800          | 400          | 490           | 170          | 740           | 740          | 1.6                        | 40.0        |
| IP37294 <sup>▲</sup> | IP37294/RO <sup>▲</sup> | 1000            | 800          | 400          | 490           | 170          | 940           | 740          | 1.6                        | 47.0        |
| IP45294              | IP45294/RO <sup>▲</sup> | 1200            | 800          | 400          | 490           | 170          | 1140          | 740          | 1.6                        | 54.0        |
| IP61294              | IP61294/RO              | 1600            | 800          | 400          | 490           | 170          | 1540          | 740          | 1.6                        | 69.0        |
| IP69294              | IP69294/RO <sup>▲</sup> | 1800            | 800          | 400          | 490           | 170          | 1740          | 740          | 1.6                        | 76.0        |
| IP77294              | IP77294/RO <sup>▲</sup> | 2000            | 800          | 400          | 490           | 170          | 1940          | 740          | 1.6                        | 83.0        |
| IP77135 <sup>▲</sup> | IP77135/RO <sup>▲</sup> | 2000            | 400          | 500          | 250           | 170          | 1740          | 340          | 1.6                        | 48.0        |
| IP29215              | IP29215/RO <sup>▲</sup> | 800             | 600          | 500          | 490           | 170          | 740           | 540          | 1.6                        | 37.0        |
| IP45215              | IP45215/RO <sup>▲</sup> | 1200            | 600          | 500          | 490           | 170          | 1140          | 540          | 1.6                        | 50.0        |
| IP61215 <sup>▲</sup> | IP61215/RO <sup>▲</sup> | 1600            | 600          | 500          | 490           | 170          | 1540          | 540          | 1.6                        | 64.0        |
| IP69215              | IP69215/RO <sup>▲</sup> | 1800            | 600          | 500          | 490           | 170          | 1740          | 540          | 1.6                        | 70.0        |
| IP77215              | IP77215/RO <sup>▲</sup> | 2000            | 600          | 500          | 490           | 170          | 1940          | 540          | 1.6                        | 77.0        |
| IP21295              | IP21295/RO <sup>▲</sup> | 600             | 800          | 500          | 490           | 170          | 540           | 740          | 1.6                        | 37.0        |
| IP45295              | IP45295/RO <sup>▲</sup> | 1200            | 800          | 500          | 490           | 170          | 1140          | 740          | 1.6                        | 60.0        |
| IP61295              | IP61295/RO <sup>▲</sup> | 1600            | 800          | 500          | 490           | 170          | 1540          | 740          | 1.6                        | 76.0        |
| IP69295              | IP69295/RO <sup>▲</sup> | 1800            | 800          | 500          | 490           | 170          | 1740          | 740          | 1.6                        | 83.0        |
| IP77295              | IP77295/RO <sup>▲</sup> | 2000            | 800          | 500          | 490           | 170          | 1940          | 740          | 1.6                        | 91.0        |
| IP77136              | IP77136/RO <sup>▲</sup> | 2000            | 400          | 600          | 440           | 120          | 1740          | 340          | 1.6                        | 54.0        |
| IP29216              | IP29216/RO <sup>▲</sup> | 800             | 600          | 600          | 490           | 170          | 740           | 540          | 1.6                        | 42.0        |
| IP45216              | IP45216/RO <sup>▲</sup> | 1200            | 600          | 600          | 490           | 170          | 1140          | 540          | 1.6                        | 56.0        |
| IP61216 <sup>▲</sup> | IP61216/RO <sup>▲</sup> | 1600            | 600          | 600          | 490           | 170          | 1540          | 540          | 1.6                        | 70.0        |
| IP77216              | IP77216/RO <sup>▲</sup> | 2000            | 600          | 600          | 490           | 170          | 1940          | 540          | 1.6                        | 84.0        |
| IP77296              | IP77296/RO <sup>▲</sup> | 2000            | 800          | 600          | 490           | 170          | 1940          | 740          | 1.6                        | 99.0        |
| IP77218 <sup>▲</sup> | IP77218/RO <sup>▲</sup> | 2000            | 600          | 800          | 490           | 170          | 1940          | 540          | 1.6                        | 99.0        |
| IP77298              | IP77298/RO <sup>▲</sup> | 2000            | 800          | 800          | 490           | 170          | 1940          | 740          | 1.6                        | 109.0       |

<sup>▲</sup> Available on request



See **Pages 40-41** for more information about B&R's range of lighting solutions or contact your local sales representative to discuss your requirements.

# Monarch IP Viewing Window – Zinc Coated Steel

Industrial Enclosures and Switchboard Building Systems



- Suitable for small motor control applications, lighting, CT metering and smaller switchboard applications.
- Premium enclosure and switchboard building system designed to be the ultimate in flexibility.
- Conformity, Approvals:
  - Lloyds Register #06/10007 (E2)
  - Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
  - Manufactured from 1.6mm thick zinc coated steel.
  - Powdercoated Pebble Grey RAL7032 or X15 Orange.

Comes standard with:

- 'C' rail mountings (4 rails on heights up to 1000mm and 8 rails on 1200mm and above)
- Gland plate (fitted internally or externally)
- Chromed steel lock with 7mm square steel insert (IP020) on units below 1600mm high and lockable L handles (IP050) on others
- 3-point locking on units of 600mm high and above
- Removable back on units 400mm deep and deeper
- Door rails and earth strap kit
- Glass Viewing Window - 5.4mm thickness



## ACCESSORIES QUICK SELECTION

| Accessories                     | Page No. | Accessories                | Page No. | Accessories         | Page No. |
|---------------------------------|----------|----------------------------|----------|---------------------|----------|
| Rainhoods                       | 22       | Escutcheon Rails           | 26       | Universal Rails     | 30       |
| Gland Plates                    | 22       | Fixed Escutcheons          | 27       | 19" Mounting Rails  | 30       |
| Plinths                         | 23       | Mounting Brackets          | 27       | Laptop Lectors      | 30       |
| Vent Kits                       | 23       | Universal Rail Kits        | 28       | Document Holders    | 31       |
| Vent Hoods                      | 24       | Door Stays                 | 28       | Schedule Holders    | 31       |
| Mounting Pans                   | 24       | Eye Bolts                  | 28       | Backmount Frame     | 31       |
| Insulated Mounting Panels       | 25       | Shelves                    | 29       | Load Centre         | 31       |
| Double Hinged Insulating Panels | 25       | DIN Rails                  | 29       | General Accessories | 32       |
| Hinged Escutcheons              | 26       | Standard Rails – C Section | 30       | Locks               | 33       |

# Monarch IP Viewing Window – Zinc Coated Steel

## Industrial Enclosures and Switchboard Building Systems



### ORDERING GUIDE

| Part Number<br>RAL7032 | Part Number<br>X15 | Dimensions (mm) |              |              |               |              |               |              |                |              | Weight (kg) |
|------------------------|--------------------|-----------------|--------------|--------------|---------------|--------------|---------------|--------------|----------------|--------------|-------------|
|                        |                    | External        |              |              | Gland Opening |              | Opening       |              | Viewing Window |              |             |
|                        |                    | Height<br>(A)   | Width<br>(B) | Depth<br>(C) | Width<br>(D)  | Depth<br>(E) | Height<br>(F) | Width<br>(G) | Hight<br>(H)   | Width<br>(I) |             |
| IP13132/WG^            | IP13132/ROWG^      | 400             | 400          | 270          | 250           | 120          | 340           | 340          | 185            | 185          | 13.0        |
| IP21132/WG^            | IP21132/RO/WG^     | 600             | 400          | 270          | 250           | 120          | 540           | 340          | 375            | 170          | 17.0        |
| IP13212/WG^            | IP13212/RO/WG^     | 400             | 600          | 270          | 440           | 120          | 340           | 540          | 175            | 370          | 17.0        |
| IP21212/WG^            | IP21212/RO/WG^     | 600             | 600          | 270          | 440           | 120          | 540           | 540          | 375            | 370          | 22.0        |
| IP29212/WG^            | IP29212/RO/WG^     | 800             | 600          | 270          | 440           | 120          | 740           | 540          | 575            | 370          | 28.0        |
| IP37212/WG^            | IP37212/RO/WG^     | 1000            | 600          | 270          | 440           | 120          | 940           | 540          | 775            | 370          | 33.0        |
| IP45212/WG^            | IP45212/RO/WG^     | 1200            | 600          | 270          | 440           | 120          | 1140          | 540          | 975            | 370          | 38.0        |
| IP21292/WG^            | IP21292/RO/WG^     | 600             | 800          | 270          | 440           | 120          | 540           | 740          | 375            | 570          | 28.0        |
| IP13214/WG^            | IP13214/RO/WG^     | 400             | 600          | 400          | 490           | 170          | 340           | 540          | 175            | 370          | 21.0        |
| IP21214/WG^            | IP21214/RO/WG^     | 600             | 600          | 400          | 490           | 170          | 540           | 540          | 375            | 370          | 27.0        |
| IP29214/WG^            | IP29214/RO/WG^     | 800             | 600          | 400          | 490           | 170          | 740           | 540          | 575            | 370          | 28.0        |
| IP45214/WG^            | IP45214/RO/WG^     | 1200            | 600          | 400          | 490           | 170          | 1140          | 540          | 975            | 370          | 45.0        |
| IP61214/WG^            | IP61214/RO/WG^     | 1600            | 600          | 400          | 490           | 170          | 1540          | 540          | 1375           | 370          | 57.0        |
| IP69214/WG^            | IP69214/RO/WG^     | 1800            | 600          | 400          | 490           | 170          | 1740          | 540          | 1575           | 370          | 63.0        |
| IP77214/WG^            | IP77214/RO/WG^     | 2000            | 600          | 400          | 490           | 170          | 1940          | 540          | 1775           | 470          | 69.0        |
| IP25254/WG^            | IP25254/RO/WG^     | 700             | 700          | 400          | 490           | 170          | 640           | 640          | 475            | 470          | 33.0        |
| IP37254/WG^            | IP37254/RO/WG^     | 1000            | 700          | 400          | 490           | 170          | 940           | 640          | 775            | 470          | 43.0        |
| IP21294/WG^            | IP21294/RO/WG^     | 600             | 800          | 400          | 490           | 170          | 540           | 740          | 375            | 570          | 33.0        |
| IP29294/WG^            | IP29294/RO/WG^     | 800             | 800          | 400          | 490           | 170          | 740           | 740          | 575            | 570          | 40.0        |
| IP37294/WG^            | IP37294/RO/WG^     | 1000            | 800          | 400          | 490           | 170          | 940           | 740          | 775            | 570          | 47.0        |
| IP45294/WG^            | IP45294/RO/WG^     | 1200            | 800          | 400          | 490           | 170          | 1140          | 740          | 975            | 570          | 54.0        |
| IP61294/WG^            | IP61294/RO/WG^     | 1600            | 800          | 400          | 490           | 170          | 1540          | 740          | 1375           | 570          | 69.0        |
| IP69294/WG^            | IP69294/RO/WG^     | 1800            | 800          | 400          | 490           | 170          | 1740          | 740          | 1575           | 570          | 76.0        |
| IP77294/WG^            | IP77294/RO/WG^     | 2000            | 800          | 400          | 490           | 170          | 1940          | 740          | 1775           | 570          | 83.0        |
| IP77135/WG^            | IP77135/RO/WG^     | 2000            | 400          | 500          | 250           | 170          | 1740          | 340          | 1775           | 170          | 48.0        |
| IP29215/WG^            | IP29215/RO/WG^     | 800             | 600          | 500          | 490           | 170          | 740           | 540          | 575            | 370          | 37.0        |
| IP45215/WG^            | IP45215/RO/WG^     | 1200            | 600          | 500          | 490           | 170          | 1140          | 540          | 975            | 370          | 50.0        |
| IP61215/WG^            | IP61215/RO/WG^     | 1600            | 600          | 500          | 490           | 170          | 1540          | 540          | 1375           | 370          | 64.0        |
| IP69215/WG^            | IP69215/RO/WG^     | 1800            | 600          | 500          | 490           | 170          | 1740          | 540          | 1575           | 370          | 70.0        |
| IP77215/WG^            | IP77215/RO/WG^     | 2000            | 600          | 500          | 490           | 170          | 1940          | 540          | 1775           | 370          | 77.0        |
| IP21295/WG^            | IP21295/RO/WG^     | 600             | 800          | 500          | 490           | 170          | 540           | 740          | 375            | 570          | 37.0        |
| IP45295/WG^            | IP45295/RO/WG^     | 1200            | 800          | 500          | 490           | 170          | 1140          | 740          | 975            | 570          | 60.0        |
| IP61295/WG^            | IP61295/RO/WG^     | 1600            | 800          | 500          | 490           | 170          | 1540          | 740          | 1375           | 570          | 76.0        |
| IP69295/WG^            | IP69295/RO/WG^     | 1800            | 800          | 500          | 490           | 170          | 1740          | 740          | 1575           | 570          | 83.0        |
| IP77295/WG^            | IP77295/RO/WG^     | 2000            | 800          | 500          | 490           | 170          | 1940          | 740          | 1775           | 570          | 91.0        |
| IP77136/WG^            | IP77136/RO/WG^     | 2000            | 400          | 600          | 440           | 120          | 1740          | 340          | 1775           | 170          | 54.0        |
| IP29216/WG^            | IP29216/RO/WG^     | 800             | 600          | 600          | 490           | 170          | 740           | 540          | 575            | 370          | 42.0        |
| IP45216/WG^            | IP45216/RO/WG^     | 1200            | 600          | 600          | 490           | 170          | 1140          | 540          | 975            | 370          | 56.0        |
| IP61216/WG^            | IP61216/RO/WG^     | 1600            | 600          | 600          | 490           | 170          | 1540          | 540          | 1375           | 370          | 70.0        |
| IP77216/WG^            | IP77216/RO/WG^     | 2000            | 600          | 600          | 490           | 170          | 1940          | 540          | 1775           | 370          | 84.0        |
| IP77296/WG^            | IP77296/RO/WG^     | 2000            | 800          | 600          | 490           | 170          | 1940          | 740          | 1775           | 570          | 99.0        |
| IP77218/WG^            | IP77218/RO/WG^     | 2000            | 600          | 800          | 490           | 170          | 1940          | 540          | 1775           | 370          | 94.0        |
| IP77298/WG^            | IP77298/RO/WG^     | 2000            | 800          | 800          | 490           | 170          | 1940          | 740          | 1775           | 570          | 109.0       |

▲ Available on request



# Monarch IP – 316 Stainless Steel

Industrial Enclosures & Switchboard Building Systems



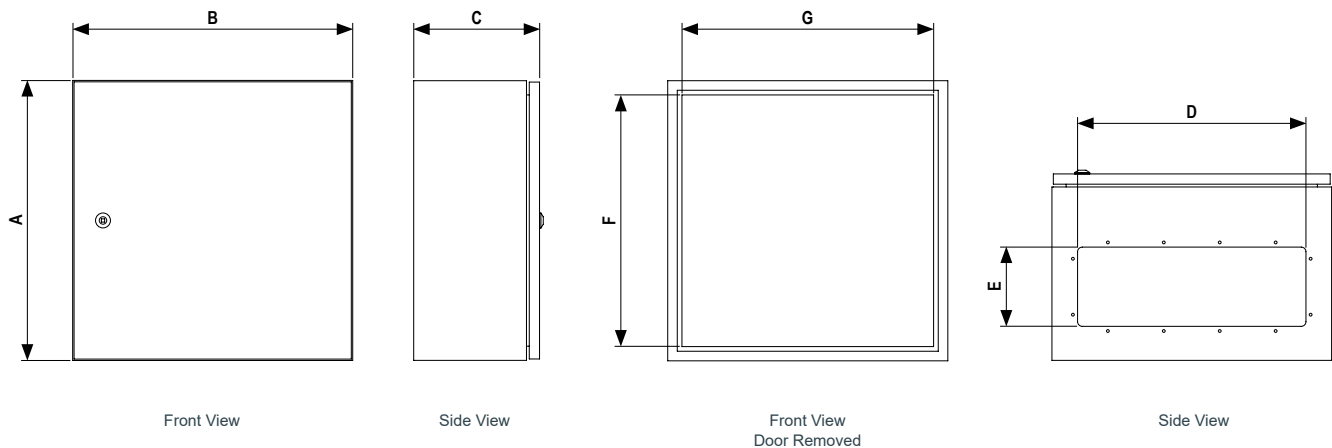
- Suitable for small motor control applications, lighting, CT metering and smaller switchboard applications.
- Premium enclosure and switchboard building system designed to be the ultimate in flexibility.
- Conformity, Approvals:  
Lloyds Register #06/10007 (E2)
- Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
- Manufactured from 1.2/1.5mm thick 316 stainless steel.
- N4 surface finish or Powdercoated X15 Orange.

Comes standard with:

- 'C' rail mountings (4 rails on heights up to 800mm and 8 rails on 1200mm and above)
- Gland plate (fitted internally or externally on 400mm deep and deeper)
- Stainless steel lock with 7mm square stainless steel insert (IP020/S) on units below 1600mm high and lockable L handles (IP050) on others
- 3-point locking on units of 600mm high and above
- Removable back on units 400mm deep and deeper
- Door rails and earth strap kit



## TECHNICAL DRAWINGS



## ACCESSORIES QUICK SELECTION

| Accessories                     | Page No. | Accessories                | Page No. | Accessories         | Page No. |
|---------------------------------|----------|----------------------------|----------|---------------------|----------|
| Rainhoods                       | 22       | Escutcheon Rails           | 26       | Universal Rails     | 30       |
| Gland Plates                    | 22       | Fixed Escutcheons          | 27       | 19" Mounting Rails  | 30       |
| Plinths                         | 23       | Mounting Brackets          | 27       | Laptop Lectors      | 30       |
| Vent Kits                       | 23       | Universal Rail Kits        | 28       | Document Holders    | 31       |
| Vent Hoods                      | 24       | Door Stays                 | 28       | Schedule Holders    | 31       |
| Mounting Pans                   | 24       | Eye Bolts                  | 28       | Backmount Frame     | 31       |
| Insulated Mounting Panels       | 25       | Shelves                    | 29       | Load Centre         | 31       |
| Double Hinged Insulating Panels | 25       | DIN Rails                  | 29       | General Accessories | 32       |
| Hinged Escutcheons              | 26       | Standard Rails – C Section | 30       | Locks               | 33       |

# Monarch IP – 316 Stainless Steel

## Industrial Enclosures & Switchboard Building Systems



### ORDERING GUIDE

|             |                                  | Dimensions (mm) |              |              |               |              |               |              |                            |             |
|-------------|----------------------------------|-----------------|--------------|--------------|---------------|--------------|---------------|--------------|----------------------------|-------------|
|             |                                  | External        |              |              | Gland Opening |              | Opening       |              |                            |             |
| Part Number | Part Number X15<br>Ripple Orange | Height<br>(A)   | Width<br>(B) | Depth<br>(C) | Width<br>(D)  | Depth<br>(E) | Height<br>(F) | Width<br>(G) | Material Thickness<br>(mm) | Weight (kg) |
| IP09051/S*  |                                  | 300             | 200          | 175          | —             | —            | 255           | 255          | 1.2                        | 4.2         |
| P13091/S    |                                  | 400             | 300          | 175          | —             | —            | 355           | 255          | 1.2                        | 7.0         |
| IP13132/S   | IP13132/SRO^                     | 400             | 400          | 270          | —             | —            | 340           | 340          | 1.2                        | 16.0        |
| IP21132/S   | IP21132/SRO^                     | 600             | 400          | 270          | —             | —            | 540           | 340          | 1.2                        | 16.0        |
| IP13212/S   | IP13212/SRO^                     | 400             | 600          | 270          | —             | —            | 340           | 540          | 1.5                        | 16.0        |
| IP21212/S   | IP21212/SRO^                     | 600             | 600          | 270          | —             | —            | 540           | 540          | 1.5                        | 21.0        |
| IP29212/S   | IP29212/SRO^                     | 800             | 600          | 270          | —             | —            | 740           | 540          | 1.5                        | 26.0        |
| IP37212/S   | IP37212/SRO^                     | 1000            | 600          | 270          | —             | —            | 940           | 540          | 1.5                        | 31.0        |
| IP45212/S   | IP45212/SRO^                     | 1200            | 600          | 270          | —             | —            | 1140          | 540          | 1.5                        | 36.0        |
| IP21292/S   | IP21292/SRO^                     | 600             | 800          | 270          | —             | —            | 540           | 740          | 1.5                        | 26.0        |
| IP13214/S   | IP13214/SRO^                     | 400             | 600          | 400          | 490           | 170          | 340           | 540          | 1.5                        | 20.0        |
| IP21214/S   | IP21214/SRO                      | 600             | 600          | 400          | 490           | 170          | 540           | 540          | 1.5                        | 25.0        |
| IP29214/S   | IP29214/SRO^                     | 800             | 600          | 400          | 490           | 170          | 740           | 540          | 1.5                        | 31.0        |
| IP45214/S   | IP45214/SRO^                     | 1200            | 600          | 400          | 490           | 170          | 1140          | 540          | 1.5                        | 42.0        |
| IP61214/S   | IP61214/SRO^                     | 1600            | 600          | 400          | 490           | 170          | 1540          | 540          | 1.5                        | 53.0        |
| IP69214/S^  | IP69214/SRO^                     | 1800            | 600          | 400          | 490           | 170          | 1740          | 540          | 1.5                        | 59.0        |
| IP77214/S^  | IP77214/SRO^                     | 2000            | 600          | 400          | 490           | 170          | 1940          | 540          | 1.5                        | 65.0        |
| IP25254/S   | IP25254/SRO^                     | 700             | 700          | 400          | 490           | 170          | 640           | 640          | 1.5                        | 31.0        |
| IP37254/S   | IP37254/SRO^                     | 1000            | 700          | 400          | 490           | 170          | 940           | 640          | 1.5                        | 40.0        |
| IP21294/S   | IP21294/SRO^                     | 600             | 800          | 400          | 490           | 170          | 540           | 740          | 1.5                        | 31.0        |
| IP29294/S   | IP29294/SRO^                     | 800             | 800          | 400          | 490           | 170          | 740           | 740          | 1.5                        | 38.0        |
| IP37294/S   | IP37294/SRO^                     | 1000            | 800          | 400          | 490           | 170          | 940           | 740          | 1.5                        | 44.0        |
| IP45294/S   | IP45294/SRO^                     | 1200            | 800          | 400          | 490           | 170          | 1140          | 740          | 1.5                        | 51.0        |
| IP61294/S   | IP61294/SRO^                     | 1600            | 800          | 400          | 490           | 170          | 1540          | 740          | 1.5                        | 64.0        |
| IP69294/S   | IP69294/SRO^                     | 1800            | 800          | 400          | 490           | 170          | 1740          | 740          | 1.5                        | 71.0        |
| IP77294/S   | IP77294/SRO^                     | 2000            | 800          | 400          | 490           | 170          | 1940          | 740          | 1.5                        | 78.0        |
| IP77135/S^  | IP77135/SRO^                     | 2000            | 400          | 500          | 490           | 170          | 1940          | 740          | 1.5                        | 78.0        |
| IP21295/S^  | IP21295/SRO^                     | 600             | 800          | 500          | 490           | 170          | 540           | 740          | 1.5                        | 35.0        |
| IP29215/S   | IP29215/SRO^                     | 800             | 600          | 500          | 490           | 170          | 740           | 540          | 1.5                        | 35.0        |
| IP45215/S^  | IP45215/SRO^                     | 1200            | 600          | 500          | 490           | 170          | 1140          | 540          | 1.5                        | 47.0        |
| IP61215/S^  | IP61215/SRO^                     | 1600            | 600          | 500          | 490           | 170          | 1540          | 540          | 1.5                        | 60.0        |
| IP69215/S^  | IP69215/SRO^                     | 1800            | 600          | 500          | 490           | 170          | 1740          | 540          | 1.5                        | 66.0        |
| IP77215/S^  | IP77215/SRO^                     | 2000            | 600          | 500          | 490           | 170          | 1940          | 540          | 1.5                        | 72.0        |
| IP45295/S   | IP45295/SRO^                     | 1200            | 800          | 500          | 490           | 170          | 1140          | 740          | 1.5                        | 57.0        |
| IP61295/S   | IP61295/SRO^                     | 1600            | 800          | 500          | 490           | 170          | 1540          | 740          | 1.5                        | 71.0        |
| IP69295/S   | IP69295/SRO^                     | 1800            | 800          | 500          | 490           | 170          | 1740          | 740          | 1.5                        | 78.0        |
| IP77295/S   | IP77295/SRO^                     | 2000            | 800          | 500          | 490           | 170          | 1940          | 740          | 1.5                        | 85.0        |
| IP77136/S^  | IP77136/SRO^                     | 2000            | 400          | 600          | 120           | 440          | 1940          | 340          | 1.5                        | 73.0        |
| IP29216/S^  | IP29216/SRO^                     | 800             | 600          | 600          | 490           | 170          | 740           | 540          | 1.5                        | 39.0        |
| IP45216/S   | IP45216/SRO^                     | 1200            | 600          | 600          | 490           | 170          | 1140          | 540          | 1.5                        | 52.0        |
| IP61216/S^  | IP61216/SRO^                     | 1600            | 600          | 600          | 490           | 170          | 1540          | 540          | 1.5                        | 66.0        |
| IP77216/S^  | IP77216/SRO^                     | 2000            | 600          | 600          | 490           | 170          | 1940          | 540          | 1.5                        | 79.0        |
| IP77296/S   | IP77296/SRO^                     | 2000            | 800          | 600          | 490           | 170          | 1940          | 740          | 1.5                        | 93.0        |
| IP77218/S^  | IP77218/SRO^                     | 2000            | 600          | 800          | 490           | 170          | 1940          | 540          | 1.5                        | 99.6        |
| IP77298/S^  | IP77298/SRO^                     | 2000            | 800          | 800          | 490           | 170          | 1940          | 740          | 1.5                        | 116.5       |

\* Does not include body rails or C rails.

▲ Available on request



See **Pages 40-41** for more information about B&R's range of lighting solutions or contact your local sales representative to discuss your requirements.

# Monarch IP Viewing Window – 316 Stainless Steel

Industrial Enclosures & Switchboard Building Systems



- Suitable for small motor control applications, lighting, CT metering and smaller switchboard applications.
- Premium enclosure and switchboard building system designed to be the ultimate in flexibility.
- Conformity, Approvals:
  - Lloyds Register #06/10007 (E2)
- Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
- Manufactured from 1.2/1.5mm thick 316 stainless steel.
- N4 surface finish or Powdercoated X15 Orange.

Comes standard with:

- 'C' rail mountings (4 rails on heights up to 800mm and 8 rails on 1200mm and above)
- Gland plate (fitted internally or externally on 400mm deep and deeper)
- Stainless steel lock with 7mm square stainless steel insert (IP020/S) on units below 1600mm high and lockable L handles (IP050) on others
- 3-point locking on units of 600mm high and above
- Removable back on units 400mm deep and deeper
- Door rails and earth strap kit
- Glass Viewing Window - 5.4 thickness



## ACCESSORIES QUICK SELECTION

| Accessories                     | Page No. | Accessories                | Page No. | Accessories         | Page No. |
|---------------------------------|----------|----------------------------|----------|---------------------|----------|
| Rainhoods                       | 22       | Escutcheon Rails           | 26       | Universal Rails     | 30       |
| Gland Plates                    | 22       | Fixed Escutcheons          | 27       | 19" Mounting Rails  | 30       |
| Plinths                         | 23       | Mounting Brackets          | 27       | Laptop Lectors      | 30       |
| Vent Kits                       | 23       | Universal Rail Kits        | 28       | Document Holders    | 31       |
| Vent Hoods                      | 24       | Door Stays                 | 28       | Schedule Holders    | 31       |
| Mounting Pans                   | 24       | Eye Bolts                  | 28       | Backmount Frame     | 31       |
| Insulated Mounting Panels       | 25       | Shelves                    | 29       | Load Centre         | 31       |
| Double Hinged Insulating Panels | 25       | DIN Rails                  | 29       | General Accessories | 32       |
| Hinged Escutcheons              | 26       | Standard Rails – C Section | 30       | Locks               | 33       |

# Monarch IP Viewing Window – 316 Stainless Steel

## Industrial Enclosures & Switchboard Building Systems



### ORDERING GUIDE

|               |                 | Dimensions (mm) |                                  |               |               |              |              |              | Viewing Window |              |               | Weight (kg) |
|---------------|-----------------|-----------------|----------------------------------|---------------|---------------|--------------|--------------|--------------|----------------|--------------|---------------|-------------|
|               |                 | External        |                                  |               | Gland Opening |              | Opening      |              |                |              |               |             |
|               |                 | Part Number     | Part Number X15<br>Ripple Orange | Height<br>(A) | Width<br>(B)  | Depth<br>(C) | Width<br>(D) | Depth<br>(E) | Height<br>(F)  | Width<br>(G) | Height<br>(H) |             |
| IP13132/S/WG▲ | IP13132/SRO/WG▲ | 400             | 400                              | 270           | —             | —            | 340          | 340          | 185            | 185          | 16.0          |             |
| IP21132/S/WG▲ | IP21132/SRO/WG▲ | 600             | 400                              | 270           | —             | —            | 540          | 340          | 375            | 170          | 16.0          |             |
| IP13212/S/WG▲ | IP13212/SRO/WG▲ | 400             | 600                              | 270           | —             | —            | 340          | 540          | 175            | 370          | 16.0          |             |
| IP21212/S/WG▲ | IP21212/SRO/WG▲ | 600             | 600                              | 270           | —             | —            | 540          | 540          | 375            | 370          | 21.0          |             |
| IP29212/S/WG▲ | IP29212/SRO/WG▲ | 800             | 600                              | 270           | —             | —            | 740          | 540          | 575            | 370          | 26.0          |             |
| IP37212/S/WG▲ | IP37212/SRO/WG▲ | 1000            | 600                              | 270           | —             | —            | 940          | 540          | 775            | 370          | 31.0          |             |
| IP45212/S/WG▲ | IP45212/SRO/WG▲ | 1200            | 600                              | 270           | —             | —            | 1140         | 540          | 975            | 370          | 36.0          |             |
| IP21292/S/WG▲ | IP21292/SRO/WG▲ | 600             | 800                              | 270           | —             | —            | 540          | 740          | 375            | 570          | 26.0          |             |
| IP13214/S/WG▲ | IP13214/SRO/WG▲ | 400             | 600                              | 400           | 490           | 170          | 340          | 540          | 175            | 370          | 20.0          |             |
| IP21214/S/WG▲ | IP21214/SRO/WG▲ | 600             | 600                              | 400           | 490           | 170          | 540          | 540          | 375            | 370          | 25.0          |             |
| IP29214/S/WG▲ | IP29214/SRO/WG▲ | 800             | 600                              | 400           | 490           | 170          | 740          | 540          | 575            | 370          | 31.0          |             |
| IP45214/S/WG▲ | IP45214/SRO/WG▲ | 1200            | 600                              | 400           | 490           | 170          | 1140         | 540          | 975            | 370          | 42.0          |             |
| IP61214/S/WG▲ | IP61214/SRO/WG▲ | 1600            | 600                              | 400           | 490           | 170          | 1540         | 540          | 1375           | 370          | 53.0          |             |
| IP69214/S/WG▲ | IP69214/SRO/WG▲ | 1800            | 600                              | 400           | 490           | 170          | 1740         | 540          | 1575           | 370          | 59.0          |             |
| IP77214/S/WG▲ | IP77214/SRO/WG▲ | 2000            | 600                              | 400           | 490           | 170          | 1940         | 540          | 1775           | 370          | 65.0          |             |
| IP25254/S/WG▲ | IP25254/SRO/WG▲ | 700             | 700                              | 400           | 490           | 170          | 640          | 640          | 475            | 470          | 71.0          |             |
| IP37254/S/WG▲ | IP37254/SRO/WG▲ | 1000            | 700                              | 400           | 490           | 170          | 940          | 640          | 775            | 470          | 31.0          |             |
| IP21294/S/WG▲ | IP21294/SRO/WG▲ | 600             | 800                              | 400           | 490           | 170          | 540          | 740          | 375            | 570          | 40.0          |             |
| IP29294/S/WG▲ | IP29294/SRO/WG▲ | 800             | 800                              | 400           | 490           | 170          | 740          | 740          | 575            | 570          | 31.0          |             |
| IP37294/S/WG▲ | IP37294/SRO/WG▲ | 1000            | 800                              | 400           | 490           | 170          | 940          | 740          | 775            | 570          | 38.0          |             |
| IP45294/S/WG▲ | IP45294/SRO/WG▲ | 1200            | 800                              | 400           | 490           | 170          | 1140         | 740          | 975            | 570          | 44.0          |             |
| IP61294/S/WG▲ | IP61294/SRO/WG▲ | 1600            | 800                              | 400           | 490           | 170          | 1540         | 740          | 1375           | 570          | 51.0          |             |
| IP69294/S/WG▲ | IP69294/SRO/WG▲ | 1800            | 800                              | 400           | 490           | 170          | 1740         | 740          | 1575           | 570          | 64.0          |             |
| IP77294/S/WG▲ | IP77294/SRO/WG▲ | 2000            | 800                              | 400           | 490           | 170          | 1940         | 740          | 1775           | 570          | 71.0          |             |
| IP77135/S/WG▲ | IP77135/SRO/WG▲ | 2000            | 800                              | 400           | 490           | 170          | 1940         | 740          | 1775           | 170          | 78.0          |             |
| IP21295/S/WG▲ | IP21295/SRO/WG▲ | 600             | 800                              | 500           | 490           | 170          | 540          | 740          | 575            | 370          | 35.0          |             |
| IP29215/S/WG▲ | IP29215/SRO/WG▲ | 800             | 600                              | 500           | 490           | 170          | 740          | 540          | 975            | 370          | 35.0          |             |
| IP45215/S/WG▲ | IP45215/SRO/WG▲ | 1200            | 600                              | 500           | 490           | 170          | 1140         | 540          | 1375           | 370          | 47.0          |             |
| IP61215/S/WG▲ | IP61215/SRO/WG▲ | 1600            | 600                              | 500           | 490           | 170          | 1540         | 540          | 1575           | 370          | 60.0          |             |
| IP69215/S/WG▲ | IP69215/SRO/WG▲ | 1800            | 600                              | 500           | 490           | 170          | 1740         | 540          | 1775           | 370          | 66.0          |             |
| IP77215/S/WG▲ | IP77215/SRO/WG▲ | 2000            | 600                              | 500           | 490           | 170          | 1940         | 540          | 375            | 570          | 72.0          |             |
| IP45295/S/WG▲ | IP45295/SRO/WG▲ | 1200            | 800                              | 500           | 490           | 170          | 1140         | 740          | 975            | 570          | 57.0          |             |
| IP61295/S/WG▲ | IP61295/SRO/WG▲ | 1600            | 800                              | 500           | 490           | 170          | 1540         | 740          | 1375           | 570          | 71.0          |             |
| IP69295/S/WG▲ | IP69295/SRO/WG▲ | 1800            | 800                              | 500           | 490           | 170          | 1740         | 740          | 1575           | 570          | 78.0          |             |
| IP77295/S/WG▲ | IP77295/SRO/WG▲ | 2000            | 800                              | 500           | 490           | 170          | 1940         | 740          | 1775           | 570          | 85.0          |             |
| IP77136/S/WG▲ | IP77136/SRO/WG▲ | 2000            | 400                              | 600           | 120           | 440          | 1940         | 340          | 1775           | 170          | 73.0          |             |
| IP29216/S/WG▲ | IP29216/SRO/WG▲ | 800             | 600                              | 600           | 490           | 170          | 740          | 540          | 575            | 370          | 39.0          |             |
| IP45216/S/WG▲ | IP45216/SRO/WG▲ | 1200            | 600                              | 600           | 490           | 170          | 1140         | 540          | 975            | 370          | 52.0          |             |
| IP61216/S/WG▲ | IP61216/SRO/WG▲ | 1600            | 600                              | 600           | 490           | 170          | 1540         | 540          | 1375           | 370          | 66.0          |             |
| IP77216/S/WG▲ | IP77216/SRO/WG▲ | 2000            | 600                              | 600           | 490           | 170          | 1940         | 540          | 1775           | 370          | 79.0          |             |
| IP77296/S/WG▲ | IP77296/SRO/WG▲ | 2000            | 800                              | 600           | 490           | 170          | 1940         | 740          | 1775           | 570          | 93.0          |             |
| IP77218/S/WG▲ | IP77218/SRO/WG▲ | 2000            | 600                              | 800           | 490           | 170          | 1940         | 540          | 1775           | 370          | 99.6          |             |
| IP77298/S/WG▲ | IP77298/SRO/WG▲ | 2000            | 800                              | 800           | 490           | 170          | 1940         | 740          | 1775           | 570          | 116.5         |             |

▲ Available on request

# Monarch IP – Aluminium

Industrial Enclosures and Switchboard Building Systems



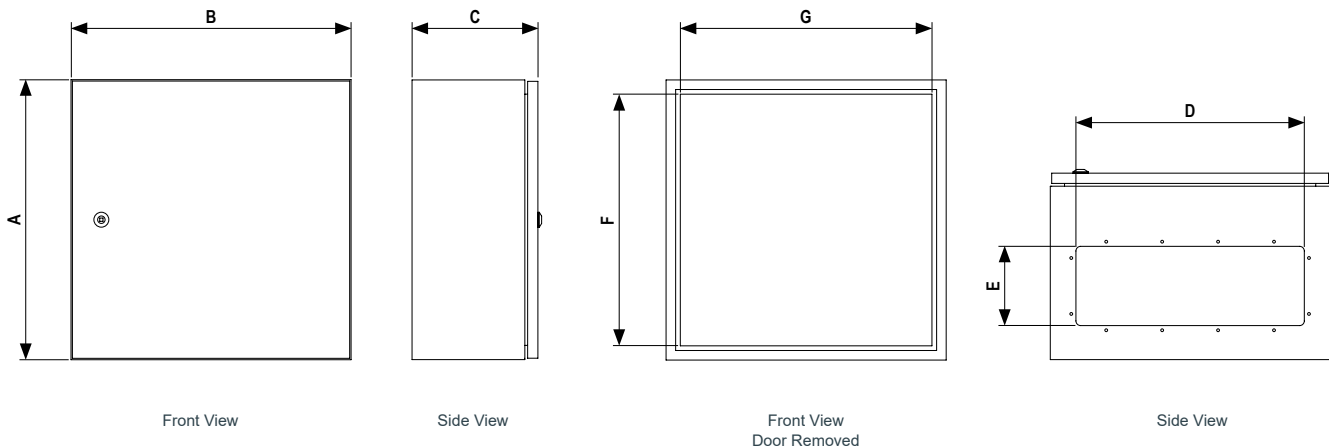
- Suitable for small motor control applications, lighting, CT metering and smaller switchboard applications.
- Premium enclosure and switchboard building system designed to be the ultimate in flexibility.
- Conformity, Approvals:  
Lloyds Register #06/10007 (E2)
- Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
- Manufactured from 2.5mm thick aluminium.
- Powdercoated Light Grey RAL7035 or X15 Orange

Comes standard with:

- 'C' rail mountings (4 rails on heights up to 800mm and 8 rails on 1200mm and above)
- Gland plate (fitted internally or externally)
- 7mm square turnbuckle lock (IP020/PS) on units below 1600mm high and lockable L handles (IP050) on others
- 3-point locking on units of 600mm high and higher
- Removable back on units 400mm deep and deeper
- Rear panel is internally secured
- Door rails and earth strap kit



## TECHNICAL DRAWINGS



## ACCESSORIES QUICK SELECTION

| Accessories                     | Page No. | Accessories                | Page No. | Accessories         | Page No. |
|---------------------------------|----------|----------------------------|----------|---------------------|----------|
| Rainhoods                       | 22       | Escutcheon Rails           | 26       | Universal Rails     | 30       |
| Gland Plates                    | 22       | Fixed Escutcheons          | 27       | 19" Mounting Rails  | 30       |
| Plinths                         | 23       | Mounting Brackets          | 27       | Laptop Lectors      | 30       |
| Vent Kits                       | 23       | Universal Rail Kits        | 28       | Document Holders    | 31       |
| Vent Hoods                      | 24       | Door Stays                 | 28       | Schedule Holders    | 31       |
| Mounting Pans                   | 24       | Eye Bolts                  | 28       | Backmount Frame     | 31       |
| Insulated Mounting Panels       | 25       | Shelves                    | 29       | Load Centre         | 31       |
| Double Hinged Insulating Panels | 25       | DIN Rails                  | 29       | General Accessories | 32       |
| Hinged Escutcheons              | 26       | Standard Rails – C Section | 30       | Locks               | 33       |



### ORDERING GUIDE

|             |              | Dimensions (mm) |           |           |               |           |            |           |                         |             |
|-------------|--------------|-----------------|-----------|-----------|---------------|-----------|------------|-----------|-------------------------|-------------|
|             |              | External        |           |           | Gland Opening |           | Opening    |           |                         |             |
| Part Number | Part Number  | Height (A)      | Width (B) | Depth (C) | Width (D)     | Depth (E) | Height (F) | Width (G) | Material Thickness (mm) | Weight (kg) |
| IP13132/A▲  | IP13132/ARO▲ | 407             | 407       | 272       | 250           | 120       | 341        | 341       | 1.2                     | 6.5         |
| IP21132/A▲  | IP21132/ARO▲ | 607             | 407       | 272       | 440           | 120       | 541        | 341       | 1.2                     | 8.5         |
| IP13212/A▲  | IP13212/ARO▲ | 407             | 607       | 272       | 440           | 120       | 341        | 541       | 1.5                     | 8.5         |
| IP21212/A▲  | IP21212/ARO▲ | 607             | 607       | 272       | 440           | 120       | 541        | 541       | 1.5                     | 11.0        |
| IP29212/A▲  | IP29212/ARO▲ | 807             | 607       | 272       | 440           | 120       | 741        | 541       | 1.5                     | 13.0        |
| IP37212/A▲  | IP37212/ARO▲ | 1007            | 607       | 272       | 440           | 120       | 941        | 541       | 1.5                     | 15.5        |
| IP45212/A▲  | IP45212/ARO▲ | 1207            | 607       | 272       | 440           | 120       | 1141       | 541       | 1.5                     | 18.0        |
| IP21292/A▲  | IP21292/ARO▲ | 607             | 807       | 272       | 440           | 120       | 541        | 741       | 1.5                     | 13.0        |
| IP13214/A▲  | IP13214/ARO▲ | 407             | 607       | 402       | 490           | 170       | 341        | 541       | 1.5                     | 11.0        |
| IP21214/A▲  | IP21214/ARO▲ | 607             | 607       | 402       | 490           | 170       | 541        | 541       | 1.5                     | 15.0        |
| IP29214/A   | IP29214/ARO▲ | 807             | 607       | 402       | 490           | 170       | 1141       | 541       | 1.5                     | 18.0        |
| IP45214/A▲  | IP45214/ARO▲ | 1207            | 607       | 402       | 490           | 170       | 1541       | 541       | 1.5                     | 24.0        |
| IP61214/A▲  | IP61214/ARO▲ | 1607            | 607       | 402       | 490           | 170       | 1141       | 541       | 1.5                     | 30.0        |
| IP69214/A▲  | IP69214/ARO▲ | 1807            | 607       | 402       | 490           | 170       | 1741       | 541       | 1.5                     | 34.0        |
| IP77214/A▲  | IP77214/ARO▲ | 2007            | 607       | 402       | 490           | 170       | 1941       | 541       | 1.5                     | 37.0        |
| IP25254/A▲  | IP25254/ARO▲ | 707             | 707       | 402       | 490           | 170       | 641        | 641       | 1.5                     | 18.0        |
| IP37254/A▲  | IP37254/ARO▲ | 1007            | 707       | 402       | 490           | 170       | 941        | 641       | 1.5                     | 22.0        |
| IP21294/A▲  | IP21294/ARO▲ | 607             | 807       | 402       | 490           | 170       | 541        | 741       | 1.5                     | 18.0        |
| IP29294/A▲  | IP29294/ARO▲ | 807             | 807       | 402       | 490           | 170       | 741        | 741       | 1.5                     | 21.0        |
| IP37294/A▲  | IP37294/ARO▲ | 1007            | 807       | 402       | 490           | 170       | 941        | 741       | 1.5                     | 25.0        |
| IP45294/A   | IP45294/ARO▲ | 1207            | 807       | 402       | 490           | 170       | 1141       | 741       | 1.5                     | 29.0        |
| IP61294/A▲  | IP61294/ARO▲ | 1607            | 807       | 402       | 490           | 170       | 1541       | 741       | 1.5                     | 37.0        |
| IP69294/A▲  | IP69294/ARO▲ | 1807            | 807       | 402       | 490           | 170       | 1741       | 741       | 1.5                     | 40.0        |
| IP77294/A▲  | IP77294/ARO▲ | 2007            | 807       | 402       | 490           | 170       | 1941       | 741       | 1.5                     | 44.0        |
| IP77135/A▲  | IP77135/ARO▲ | 2007            | 407       | 502       | 490           | 170       | 741        | 541       | 1.5                     | 21.0        |
| IP29215/A▲  | IP29215/ARO▲ | 807             | 607       | 502       | 490           | 170       | 1141       | 541       | 1.5                     | 27.0        |
| IP45215/A▲  | IP45215/ARO▲ | 1207            | 607       | 502       | 490           | 170       | 1541       | 541       | 1.5                     | 34.0        |
| IP61215/A▲  | IP61215/ARO▲ | 1607            | 607       | 502       | 490           | 170       | 1741       | 541       | 1.5                     | 37.0        |
| IP69215/A▲  | IP69215/ARO▲ | 1807            | 607       | 502       | 490           | 170       | 1941       | 541       | 1.5                     | 41.0        |
| IP77215/A▲  | IP77215/ARO▲ | 2007            | 607       | 502       | 120           | 250       | 1941       | 341       | 1.5                     | 42.7        |
| IP21295/A▲  | IP21295/ARO▲ | 607             | 807       | 502       | 490           | 170       | 541        | 741       | 1.5                     | 21.0        |
| IP45295/A   | IP45295/ARO▲ | 1207            | 807       | 502       | 490           | 170       | 1141       | 741       | 1.5                     | 32.0        |
| IP61295/A▲  | IP61295/ARO▲ | 1607            | 807       | 502       | 490           | 170       | 1541       | 741       | 1.5                     | 40.0        |
| IP69295/A▲  | IP69295/ARO▲ | 1807            | 807       | 502       | 490           | 170       | 1741       | 741       | 1.5                     | 44.0        |
| IP77295/A▲  | IP77295/ARO▲ | 2007            | 807       | 502       | 490           | 170       | 1941       | 741       | 1.5                     | 48.0        |
| IP77136/A▲  | IP77136/ARO▲ | 2007            | 407       | 602       | 120           | 440       | 1941       | 341       | 1.5                     | 43.8        |
| IP29216/A▲  | IP29216/ARO▲ | 807             | 607       | 602       | 490           | 170       | 741        | 541       | 1.5                     | 27.0        |
| IP45216/A▲  | IP45216/ARO▲ | 1207            | 607       | 602       | 490           | 170       | 1141       | 541       | 1.5                     | 36.0        |
| IP61216/A▲  | IP61216/ARO▲ | 1607            | 607       | 602       | 490           | 170       | 1541       | 541       | 1.5                     | 40.0        |
| IP77216/A▲  | IP77216/ARO▲ | 2007            | 607       | 602       | 490           | 170       | 1741       | 541       | 1.5                     | 45.0        |
| IP61296/A▲  | —            | 1607            | 807       | 602       | 490           | 170       | 1541       | 741       | 1.5                     | 43.0        |
| IP77296/A▲  | IP77296/ARO▲ | 2007            | 807       | 602       | 490           | 170       | 1941       | 741       | 1.5                     | 53.0        |
| IP77218/A▲  | IP77218/ARO▲ | 2007            | 607       | 802       | 490           | 170       | 1941       | 541       | 1.5                     | 59.8        |
| IP77298/A▲  | IP77298/ARO▲ | 2007            | 807       | 802       | 490           | 170       | 1941       | 741       | 1.5                     | 68.3        |

▲ Available on request



See **Pages 40-41** for more information about B&R's range of lighting solutions or contact your local sales representative to discuss your requirements.

# Monarch IP Viewing Window – Aluminium

Industrial Enclosures and Switchboard Building Systems



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  - Lloyds Register #06/10007 (E2)
  - Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
- Manufactured from 2.5mm thick aluminium.
- Powdercoated Light Grey RAL7035 or X15 Orange.

Comes standard with:

- 'C' rail mountings (4 rails on heights up to 800mm and 8 rails on 1200mm and above)
- Gland plate (fitted internally or externally)
- 7mm square turnbuckle lock (IP020/PS) on units below 1600mm high and lockable L handles (IP050) on others
- 3-point locking on units of 600mm high and higher
- Removable back on units 400mm deep and deeper
- Rear panel is internally secured
- Door rails and earth strap kit
- Glass Viewing Window - 5.4mm thickness



## ACCESSORIES QUICK SELECTION

| Accessories                     | Page No. | Accessories                | Page No. | Accessories         | Page No. |
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# Monarch IP Viewing Window – Aluminium

## Industrial Enclosures and Switchboard Building Systems



### ORDERING GUIDE

|               |                 | Dimensions (mm) |           |           |               |           |            |           |                |           |             |
|---------------|-----------------|-----------------|-----------|-----------|---------------|-----------|------------|-----------|----------------|-----------|-------------|
|               |                 | External        |           |           | Gland Opening |           | Opening    |           | Viewing Window |           |             |
| Part Number   | Part Number     | Height (A)      | Width (B) | Depth (C) | Width (D)     | Depth (E) | Height (F) | Width (G) | Height (H)     | Width (I) | Weight (kg) |
| IP13132/A/WG▲ | IP13132/ARO/WG▲ | 407             | 407       | 272       | 250           | 120       | 341        | 341       | 185            | 185       | 6.5         |
| IP21132/A/WG▲ | IP21132/ARO/WG▲ | 607             | 407       | 272       | 440           | 120       | 541        | 341       | 375            | 170       | 8.5         |
| IP13212/A/WG▲ | IP13212/ARO/WG▲ | 407             | 607       | 272       | 440           | 120       | 341        | 541       | 175            | 370       | 8.5         |
| IP21212/A/WG▲ | IP21212/ARO/WG▲ | 607             | 607       | 272       | 440           | 120       | 541        | 541       | 375            | 370       | 11.0        |
| IP29212/A/WG▲ | IP29212/ARO/WG▲ | 807             | 607       | 272       | 440           | 120       | 741        | 541       | 575            | 370       | 13.0        |
| IP37212/A/WG▲ | IP37212/ARO/WG▲ | 1007            | 607       | 272       | 440           | 120       | 941        | 541       | 775            | 370       | 15.5        |
| IP45212/A/WG▲ | IP45212/ARO/WG▲ | 1207            | 607       | 272       | 440           | 120       | 1141       | 541       | 975            | 370       | 18.0        |
| IP21292/A/WG▲ | IP21292/ARO/WG▲ | 607             | 807       | 272       | 440           | 120       | 541        | 741       | 375            | 570       | 13.0        |
| IP13214/A/WG▲ | IP13214/ARO/WG▲ | 407             | 607       | 402       | 490           | 170       | 341        | 541       | 175            | 370       | 11.0        |
| IP21214/A/WG▲ | IP21214/ARO/WG▲ | 607             | 607       | 402       | 490           | 170       | 541        | 541       | 375            | 370       | 15.0        |
| IP29214/A/WG▲ | IP29214/ARO/WG▲ | 807             | 607       | 402       | 490           | 170       | 1141       | 541       | 575            | 370       | 18.0        |
| IP45214/A/WG▲ | IP45214/ARO/WG▲ | 1207            | 607       | 402       | 490           | 170       | 1541       | 541       | 975            | 370       | 24.0        |
| IP61214/A/WG▲ | IP61214/ARO/WG▲ | 1607            | 607       | 402       | 490           | 170       | 1141       | 541       | 1375           | 370       | 30.0        |
| IP69214/A/WG▲ | IP69214/ARO/WG▲ | 1807            | 607       | 402       | 490           | 170       | 1741       | 541       | 1575           | 370       | 34.0        |
| IP77214/A/WG▲ | IP77214/ARO/WG▲ | 2007            | 607       | 402       | 490           | 170       | 1941       | 541       | 1775           | 370       | 37.0        |
| IP25254/A/WG▲ | IP25254/ARO/WG▲ | 707             | 707       | 402       | 490           | 170       | 641        | 641       | 475            | 470       | 18.0        |
| IP37254/A/WG▲ | IP37254/ARO/WG▲ | 1007            | 707       | 402       | 490           | 170       | 941        | 641       | 775            | 470       | 22.0        |
| IP21294/A/WG▲ | IP21294/ARO/WG▲ | 607             | 807       | 402       | 490           | 170       | 541        | 741       | 375            | 570       | 18.0        |
| IP29294/A/WG▲ | IP29294/ARO/WG▲ | 807             | 807       | 402       | 490           | 170       | 741        | 741       | 575            | 570       | 21.0        |
| IP37294/A/WG▲ | IP37294/ARO/WG▲ | 1007            | 807       | 402       | 490           | 170       | 941        | 741       | 775            | 570       | 25.0        |
| IP45294/A/WG▲ | IP45294/ARO/WG▲ | 1207            | 807       | 402       | 490           | 170       | 1141       | 741       | 975            | 570       | 29.0        |
| IP61294/A/WG▲ | IP61294/ARO/WG▲ | 1607            | 807       | 402       | 490           | 170       | 1541       | 741       | 1375           | 570       | 37.0        |
| IP69294/A/WG▲ | IP69294/ARO/WG▲ | 1807            | 807       | 402       | 490           | 170       | 1741       | 741       | 1575           | 570       | 40.0        |
| IP77294/A/WG▲ | IP77294/ARO/WG▲ | 2007            | 807       | 402       | 490           | 170       | 1941       | 741       | 1775           | 570       | 44.0        |
| IP77135/A/WG▲ | IP77135/ARO/WG▲ | 807             | 607       | 502       | 490           | 170       | 741        | 541       | 1775           | 170       | 21.0        |
| IP29215/A/WG▲ | IP29215/ARO/WG▲ | 1207            | 607       | 502       | 490           | 170       | 1141       | 541       | 575            | 370       | 27.0        |
| IP45215/A/WG▲ | IP45215/ARO/WG▲ | 1607            | 607       | 502       | 490           | 170       | 1541       | 541       | 975            | 370       | 34.0        |
| IP61215/A/WG▲ | IP61215/ARO/WG▲ | 1807            | 607       | 502       | 490           | 170       | 1741       | 541       | 1375           | 370       | 37.0        |
| IP69215/A/WG▲ | IP69215/ARO/WG▲ | 2007            | 607       | 502       | 490           | 170       | 1941       | 541       | 1575           | 370       | 41.0        |
| IP77215/A/WG▲ | IP77215/ARO/WG▲ | 2007            | 407       | 502       | 120           | 250       | 1941       | 341       | 1775           | 370       | 42.7        |
| IP21295/A/WG▲ | IP21295/ARO/WG▲ | 607             | 807       | 502       | 490           | 170       | 541        | 741       | 375            | 570       | 21.0        |
| IP45295/A/WG▲ | IP45295/ARO/WG▲ | 1207            | 807       | 502       | 490           | 170       | 1141       | 741       | 975            | 570       | 32.0        |
| IP61295/A/WG▲ | IP61295/ARO/WG▲ | 1607            | 807       | 502       | 490           | 170       | 1541       | 741       | 1375           | 570       | 40.0        |
| IP69295/A/WG▲ | IP69295/ARO/WG▲ | 1807            | 807       | 502       | 490           | 170       | 1741       | 741       | 1575           | 570       | 44.0        |
| IP77295/A/WG▲ | IP77295/ARO/WG▲ | 2007            | 807       | 502       | 490           | 170       | 1941       | 741       | 1775           | 570       | 48.0        |
| IP77136/A/WG▲ | IP77136/ARO/WG▲ | 2007            | 407       | 602       | 120           | 440       | 1941       | 341       | 1775           | 170       | 43.8        |
| IP29216/A/WG▲ | IP29216/ARO/WG▲ | 807             | 607       | 602       | 490           | 170       | 741        | 541       | 575            | 370       | 27.0        |
| IP45216/A/WG▲ | IP45216/ARO/WG▲ | 1207            | 607       | 602       | 490           | 170       | 1141       | 541       | 975            | 370       | 36.0        |
| IP61216/A/WG▲ | IP61216/ARO/WG▲ | 1607            | 607       | 602       | 490           | 170       | 1541       | 541       | 1375           | 370       | 40.0        |
| IP77216/A/WG▲ | IP77216/ARO/WG▲ | 2007            | 607       | 602       | 490           | 170       | 1741       | 541       | 1775           | 370       | 45.0        |
| IP61296/A/WG▲ | —               | 1607            | 807       | 602       | 490           | 170       | 1541       | 741       | 1775           | 570       | 53.0        |
| IP77296/A/WG▲ | IP77296/ARO/WG▲ | 2007            | 807       | 602       | 490           | 170       | 1941       | 741       | 1775           | 370       | 59.8        |
| IP77218/A/WG▲ | IP77218/ARO/WG▲ | 2007            | 607       | 802       | 490           | 170       | 1941       | 541       | 1775           | 570       | 68.3        |
| IP77298/A/WG▲ | IP77298/ARO/WG▲ | 2007            | 807       | 802       | 490           | 170       | 1941       | 741       | 1375           | 570       | 43.0        |

▲ Available on request

# Monarch IP

## Accessories to suit all Monarch IP enclosures

### Rainhoods

Rainhoods are designed to shed water from the top of the enclosure to prevent it from pooling on top of the enclosure. The rainhoods have an overhang of 14mm.

| Part Number            | Material            | Dimensions (mm) |       |       | Slope Angle (Degrees) | To suit enclosures (mm) |       |
|------------------------|---------------------|-----------------|-------|-------|-----------------------|-------------------------|-------|
|                        |                     | Height          | Width | Depth |                       | Width                   | Depth |
| IPRH132 <sup>▲</sup>   | Zinc coated steel   | 30              | 400   | 284   | 2.0                   | 400                     | 270   |
| IPRH211 <sup>▲</sup>   |                     | 30              | 600   | 189   | 3.0                   | 600                     | 175   |
| IPRH212                |                     | 30              | 600   | 284   | 2.0                   | 600                     | 270   |
| IPRH214                |                     | 30              | 600   | 414   | 1.5                   | 600                     | 400   |
| IPRH215 <sup>▲</sup>   |                     | 30              | 600   | 514   | 1.0                   | 600                     | 500   |
| IPRH216 <sup>▲</sup>   |                     | 30              | 600   | 614   | 1.0                   | 600                     | 600   |
| IPRH254                |                     | 30              | 700   | 414   | 1.5                   | 700                     | 400   |
| IPRH292 <sup>▲</sup>   |                     | 30              | 800   | 284   | 2.0                   | 800                     | 270   |
| IPRH294                |                     | 30              | 800   | 414   | 1.5                   | 800                     | 400   |
| IPRH295                |                     | 30              | 800   | 514   | 1.0                   | 800                     | 500   |
| IPRH296 <sup>▲</sup>   |                     | 30              | 800   | 614   | 1.0                   | 800                     | 600   |
| IPRH051/S <sup>▲</sup> | 316 stainless steel | 30              | 200   | 189   | 3.0                   | 200                     | 175   |
| IPRH091/S <sup>▲</sup> |                     | 30              | 300   | 189   | 3.0                   | 300                     | 175   |
| IPRH132/S              |                     | 30              | 400   | 284   | 2.0                   | 400                     | 270   |
| IPRH211/S <sup>▲</sup> |                     | 30              | 600   | 189   | 3.0                   | 600                     | 175   |
| IPRH212/S              |                     | 30              | 600   | 284   | 2.0                   | 600                     | 270   |
| IPRH214/S              |                     | 30              | 600   | 414   | 1.5                   | 600                     | 400   |
| IPRH215/S <sup>▲</sup> |                     | 30              | 600   | 514   | 1.0                   | 600                     | 500   |
| IPRH216/S              |                     | 30              | 600   | 614   | 1.0                   | 600                     | 600   |
| IPRH254/S <sup>▲</sup> |                     | 30              | 700   | 414   | 1.5                   | 700                     | 400   |
| IPRH292/S <sup>▲</sup> |                     | 30              | 800   | 284   | 2.0                   | 800                     | 270   |
| IPRH294/S              |                     | 30              | 800   | 414   | 1.5                   | 800                     | 400   |
| IPRH295/S              |                     | 30              | 800   | 514   | 1.0                   | 800                     | 500   |
| IPRH296/S <sup>▲</sup> |                     | 30              | 800   | 614   | 1.0                   | 800                     | 600   |

▲ Available on request



Zinc coated steel

### Gland Plates

Designed for efficient and flexible fitting and installation of cable glands.

| Part Number         | Material            | Dimensions (mm) |       |           | To suit enclosure (mm) |                 |
|---------------------|---------------------|-----------------|-------|-----------|------------------------|-----------------|
|                     |                     | Width           | Depth | Thickness | Width                  | Depth           |
| IPGP31 <sup>▲</sup> | Zinc coated steel   | 290             | 160   | 1.6       | 400                    | 270             |
| IPGP41 <sup>▲</sup> |                     | 480             | 160   | 1.6       | 600 or 800             | 270             |
| IPGP52 <sup>▲</sup> |                     | 530             | 210   | 1.6       | 600, 700 or 800        | 400, 500 or 600 |
| IPGS31              | 316 stainless steel | 290             | 160   | 1.5       | 400                    | 270             |
| IPGS41              |                     | 480             | 160   | 1.5       | 600 or 800             | 270             |
| IPGS52              |                     | 530             | 210   | 1.5       | 600, 700 or 800        | 400, 500 or 600 |
| IPGB31              | Brass               | 290             | 160   | 6         | 400                    | 270             |
| IPGB41              |                     | 480             | 160   | 6         | 600 or 800             | 270             |
| IPGB52              |                     | 530             | 210   | 6         | 600, 700 or 800        | 400, 500 or 600 |
| IPGA31              | Aluminium           | 290             | 160   | 2.5       | 400                    | 270             |
| IPGA41              |                     | 480             | 160   | 2.5       | 600 or 800             | 270             |
| IPGA52              |                     | 530             | 210   | 2.5       | 600, 700 or 800        | 400, 500 or 600 |

▲ Available on request



IPGB

# Monarch IP

Accessories to suit all Monarch IP enclosures



## Plinths

Designed for use when mounting enclosures on the floor.

| Product        | Material                                       | Part Number            | Dimensions (mm) |       |       | To suit enclosures (mm) |       |
|----------------|--|------------------------|-----------------|-------|-------|-------------------------|-------|
|                |  |                        | Height          | Width | Depth | Width                   | Depth |
| Access plinths | Steel  | IPPH214                | 200             | 600   | 374   | 600                     | 400   |
|                |  | IPPH215 <sup>▲</sup>   | 200             | 600   | 474   | 600                     | 500   |
|                |  | IPPH216 <sup>▲</sup>   | 200             | 600   | 574   | 600                     | 600   |
|                |  | IPPH294                | 200             | 800   | 374   | 800                     | 400   |
|                |  | IPPH295                | 200             | 800   | 474   | 800                     | 500   |
|                |  | IPPH296 <sup>▲</sup>   | 200             | 800   | 574   | 800                     | 600   |
|                | 316 stainless steel                            | IPPH295/3 <sup>▲</sup> | 300             | 800   | 470   | 800                     | 500   |
|                |  | IPPH214/S              | 200             | 600   | 374   | 600                     | 400   |
|                |  | IPPH215/S <sup>▲</sup> | 200             | 600   | 474   | 600                     | 500   |
|                |  | IPPH216/S <sup>▲</sup> | 200             | 600   | 574   | 600                     | 600   |
|                |  | IPPH294/S              | 200             | 800   | 374   | 800                     | 400   |
|                |  | IPPH295/S              | 200             | 800   | 474   | 800                     | 500   |
| Plinth         | Channel iron                                   | IPPH296/S <sup>▲</sup> | 200             | 800   | 574   | 800                     | 600   |
|                |  | IPPC212                | 75              | 600   | 241   | 600                     | 270   |
|                |  | IPPC214                | 75              | 600   | 371   | 600                     | 400   |
|                |  | IPPC215                | 75              | 600   | 471   | 600                     | 500   |
|                |  | IPPC216                | 75              | 600   | 571   | 600                     | 600   |
|                |  | IPPC254                | 75              | 700   | 371   | 700                     | 400   |
|                |  | IPPC294                | 75              | 800   | 371   | 800                     | 400   |
|                |  | IPPC295                | 75              | 800   | 471   | 800                     | 500   |
|                |  | IPPC296 <sup>▲</sup>   | 75              | 800   | 571   | 800                     | 600   |
|                |  | IPPC424                | 75              | 1200  | 371   | 1200                    | 400   |
|                |  | IPPC425 <sup>▲</sup>   | 75              | 1200  | 471   | 1200                    | 500   |
|                |  | IPPC504                | 75              | 1400  | 371   | 1400                    | 400   |
| Clamp bracket  | Set of 4<br>(for use with channel iron plinth) | IPPCB                  | –               | –     | –     | all                     | all   |
|                |  |                        |                 |       |       |                         |       |
| Gasket         | Neoprene (4m length)                           | IPPC/G                 | 3               | 20    | –     | all                     | all   |

<sup>▲</sup> Available on request



IPPC

## Vent Kits – IP23

Ensure that the enclosure does not become excessively hot by allowing natural circulation of air.

The vent kit includes a gasket, insert filter and fittings. Note that by the nature of this item, the enclosure will then not be rated to IP66.

| Part Number             | Material            | Description             | Dimensions (mm) |       |                     |
|-------------------------|---------------------|-------------------------|-----------------|-------|---------------------|
|                         |                     |                         | Height          | Width | To suit cutout (mm) |
| IPVK                    | Zinc coated steel   | Powdercoated RAL7032    | 130             | 130   | 80 x 80             |
| IPVK/LG                 |                     | Powdercoated RAL7035    | 130             | 130   | 80 x 80             |
| IPVK/RO                 |                     | Powdercoated X15 Orange | 130             | 130   | 80 x 80             |
| IPVK16                  |                     | Powdercoated RAL7032    | 260             | 260   | 190 x 190           |
| IPVK16/LG <sup>▲</sup>  |                     | Powdercoated RAL7035    | 260             | 260   | 190 x 190           |
| IPVK16/RO <sup>▲</sup>  |                     | Powdercoated X15 Orange | 260             | 260   | 190 x 190           |
| IPVK/S                  | 316 stainless steel | –                       | 130             | 130   | 80 x 80             |
| IPVK/SRO <sup>▲</sup>   |                     | Powdercoated X15 Orange | 130             | 130   | 80 x 80             |
| IPVK16/S <sup>▲</sup>   |                     | –                       | 260             | 260   | 190 x 190           |
| IPVK16/SRO <sup>▲</sup> |                     | Powdercoated X15 Orange | 260             | 260   | 190 x 190           |
| IPVK/A                  | Aluminium           | Powdercoated RAL7035    | 130             | 130   | 80 x 80             |
| IPVK16/A <sup>▲</sup>   |                     |                         | 260             | 260   | 190 x 190           |

<sup>▲</sup> Available on request



IPVK



# Monarch IP

## Accessories to suit all Monarch IP enclosures

### Vent Hoods

Designed to suit B&R's range of fans, filters and vent kits (on selected sizes) to ensure that the fan is protected mechanically and to protect from water and dust ingress.

| Part Number | Material            | Colour              | Dimensions (mm) |       |       | To suit              |
|-------------|---------------------|---------------------|-----------------|-------|-------|----------------------|
|             |                     |                     | Height          | Width | Depth |                      |
| IPVH12      | Zinc coated steel   | Pebble Grey RAL7032 | 300             | 200   | 50    | FAN/FIL 12 & IPVK    |
| IPVH12/LG▲  |                     | Light Grey RAL7035  | 300             | 200   | 50    | FAN/FIL 12 & IPVK    |
| IPVH12/RO   |                     | X15 Orange          | 300             | 200   | 50    | FAN/FIL 12 & IPVK    |
| IPVH25      |                     | Pebble Grey RAL7032 | 400             | 300   | 50    | FAN23/28 & FAN/FIL25 |
| IPVH25/LG▲  |                     | Light Grey RAL7035  | 400             | 300   | 50    | FAN23/28 & FAN/FIL25 |
| IPVH25/RO   |                     | X15 Orange          | 400             | 300   | 50    | FAN23/28 & FAN/FIL25 |
| IPVH35      |                     | Pebble Grey RAL7032 | 475             | 375   | 75    | FAN/FIL35            |
| IPVH35/LG▲  |                     | Light Grey RAL7035  | 475             | 375   | 75    | FAN/FIL35            |
| IPVH35/RO▲  |                     | X15 Orange          | 475             | 375   | 75    | FAN/FIL35            |
| IPVH12/S    | 316 stainless steel | N4 finish           | 300             | 200   | 50    | FAN/FIL 12 & IPVK/S  |
| IPVH12/SRO▲ |                     | X15 Orange          | 300             | 200   | 50    | FAN/FIL 12 & IPVK/S  |
| IPVH25/S    |                     | N4 finish           | 400             | 300   | 50    | FAN23/28 & FAN/FIL25 |
| IPVH25/SRO  |                     | X15 Orange          | 400             | 300   | 50    | FAN23/28 & FAN/FIL25 |
| IPVH35/S    |                     | N4 finish           | 475             | 375   | 75    | FAN/FIL35            |
| IPVH35/SRO▲ |                     | X15 Orange          | 475             | 375   | 75    | FAN/FIL35            |
| IPVH12/A▲   | Aluminium           | Light Grey RAL7035  | 300             | 200   | 50    | FAN/FIL 12 & IPVK    |
| IPVH25/A▲   |                     |                     | 400             | 300   | 50    | FAN23/28 & FAN/FIL25 |
| IPVH35/A▲   |                     |                     | 475             | 375   | 75    | FAN/FIL35            |

▲ Available on request



IPVH & IPVH/S

### Metal Mounting Pans

Very simple to install using the rails supplied as part of the Monarch IP enclosure. They are manufactured from 2mm thick pre-treated mild steel with a gloss white powdercoat finish.

| Part Number | Dimensions (mm) |       |           | To suit enclosure (mm) |       |
|-------------|-----------------|-------|-----------|------------------------|-------|
|             | Height          | Width | Thickness | Height                 | Width |
| IPMP0905    | 250             | 150   | 2         | 300                    | 200   |
| IPMP1309    | 350             | 250   | 2         | 400                    | 300   |
| IPMP1313    | 320             | 340   | 2         | 400                    | 400   |
| IPMP1321    | 320             | 540   | 2         | 400                    | 600   |
| IPMP2113    | 520             | 340   | 2         | 600                    | 400   |
| IPMP2121    | 520             | 540   | 2         | 600                    | 600   |
| IPMP2129    | 520             | 740   | 2         | 600                    | 800   |
| IPMP2525    | 620             | 640   | 2         | 700                    | 700   |
| IPMP2921#   | 720             | 540   | 2         | 800                    | 600   |
| IPMP2929#   | 720             | 740   | 2         | 800                    | 800   |
| IPMP3721#   | 920             | 540   | 2         | 1000                   | 600   |
| IPMP3725#   | 920             | 640   | 2         | 1000                   | 700   |
| IPMP3729#   | 920             | 740   | 2         | 1000                   | 800   |
| IPMP4521#   | 1120            | 540   | 2         | 1200                   | 600   |
| IPMP4529#   | 1120            | 740   | 2         | 1200                   | 800   |
| IPMP5321▲   | 1320            | 540   | 2         | 1400                   | 600   |
| IPMP5329▲   | 1320            | 740   | 2         | 1400                   | 800   |
| IPMP6121*   | 1520            | 540   | 2         | 1600                   | 600   |
| IPMP6129*   | 1520            | 740   | 2         | 1600                   | 800   |
| IPMP6921*   | 1720            | 540   | 2         | 1800                   | 600   |
| IPMP6929*   | 1720            | 740   | 2         | 1800                   | 800   |
| IPMP7721*   | 1920            | 540   | 2         | 2000                   | 600   |
| IPMP7729*   | 1920            | 740   | 2         | 2000                   | 800   |

\* Mounting pan features double return on sides and single return on top for extra rigidity.

# Mounting pan features single return on sides.

▲ Available on request.



IPMP

# Monarch IP

Accessories to suit all Monarch IP enclosures



## Insulated Mounting Pans

Suitable where use of a metallic pan is not acceptable. Manufactured from black laminated phenolic material and supplied with all fixings, the insulated mounting pan is easy to install and use.

| Part Number           | Dimensions (mm) |       |           | To suit enclosure (mm) |       |
|-----------------------|-----------------|-------|-----------|------------------------|-------|
|                       | Height          | Width | Thickness | Height                 | Width |
| IPFP0905 <sup>▲</sup> | 250             | 150   | 6         | 300                    | 200   |
| IPFP1309 <sup>▲</sup> | 350             | 250   | 6         | 400                    | 300   |
| IPFP1313              | 320             | 340   | 6         | 400                    | 400   |
| IPFP1321 <sup>▲</sup> | 320             | 540   | 6         | 400                    | 600   |
| IPFP2113 <sup>▲</sup> | 520             | 340   | 6         | 600                    | 400   |
| IPFP2121              | 520             | 540   | 6         | 600                    | 600   |
| IPFP2129 <sup>▲</sup> | 520             | 740   | 6         | 600                    | 800   |
| IPFP2525 <sup>▲</sup> | 620             | 640   | 6         | 700                    | 700   |
| IPFP2921              | 720             | 540   | 6         | 800                    | 600   |
| IPFP2929 <sup>▲</sup> | 720             | 740   | 6         | 800                    | 800   |
| IPFP3721 <sup>▲</sup> | 920             | 540   | 6         | 1000                   | 600   |
| IPFP3725 <sup>▲</sup> | 920             | 640   | 8         | 1000                   | 700   |
| IPFP3729 <sup>▲</sup> | 920             | 740   | 8         | 1000                   | 800   |
| IPFP4521 <sup>▲</sup> | 1120            | 540   | 8         | 1200                   | 600   |
| IPFP4529 <sup>▲</sup> | 1120            | 740   | 8         | 1200                   | 800   |

<sup>▲</sup> Available on request



IPFP

## Double Hinged Insulating Panels

Mainly used for metering applications. They are functional mounting solution for equipment installation that provides full access to the rear of the panel.

| Part Number           | Dimensions (mm) |       |           | To suit enclosure (mm) |       |
|-----------------------|-----------------|-------|-----------|------------------------|-------|
|                       | Height          | Width | Thickness | Height                 | Width |
| IPHP1313              | 320             | 325   | 6         | 400                    | 400   |
| IPHP1321              | 320             | 525   | 6         | 400                    | 600   |
| IPHP2113              | 520             | 325   | 6         | 600                    | 400   |
| IPHP2121              | 520             | 525   | 6         | 600                    | 600   |
| IPHP2129              | 520             | 725   | 6         | 600                    | 800   |
| IPHP2421              | 595             | 525   | 6         | partial height         | 600   |
| IPHP2429              | 595             | 725   | 6         | partial height         | 800   |
| IPHP2525              | 620             | 625   | 6         | 700                    | 700   |
| IPHP2921              | 720             | 525   | 6         | 800                    | 600   |
| IPHP2929              | 720             | 725   | 6         | 800                    | 800   |
| IPHP3221 <sup>▲</sup> | 795             | 525   | 6         | partial height         | 600   |
| IPHP3229              | 795             | 725   | 6         | partial height         | 800   |
| IPHP3721              | 920             | 525   | 6         | 1000                   | 600   |
| IPHP3725 <sup>▲</sup> | 920             | 625   | 8         | 1000                   | 700   |
| IPHP3729              | 920             | 725   | 8         | 1000                   | 800   |
| IPHP4521              | 1120            | 525   | 8         | 1200                   | 600   |
| IPHP4529              | 1120            | 725   | 8         | 1200                   | 800   |

<sup>▲</sup> Available on request



IPHP

# Monarch IP

## Accessories to suit all Monarch IP enclosures

### Hinged Escutcheons

Used for covering internal controls and accessories. They can be mounted singularly or with two or more fitted into the enclosure. Fitting requires universal rail kit (see page 92).

| Part Number | Dimensions (mm) |       |       | Required (rail kit) | To suit enclosures (mm) |       |
|-------------|-----------------|-------|-------|---------------------|-------------------------|-------|
|             | Height          | Width | Depth |                     | Height                  | Width |
| IPHE1313    | 324             | 319   | 18    | IPRK1313            | 400                     | 400   |
| IPHE1321    | 319             | 524   | 18    | IPRK1321            | 400                     | 600   |
| IPHE2113    | 524             | 319   | 18    | IPRK2113            | 600                     | 400   |
| IPHE2121    | 524             | 519   | 18    | IPRK2121            | 600                     | 600   |
| IPHE2129    | 524             | 719   | 18    | IPRK2129            | 600                     | 800   |
| IPHE2421    | 599             | 519   | 18    | –                   | partial                 | 600   |
| IPHE2429    | 599             | 719   | 18    | –                   | partial                 | 800   |
| IPHE2525    | 624             | 619   | 18    | IPRK2525            | 700                     | 700   |
| IPHE2921    | 724             | 519   | 18    | IPRK2921            | 800                     | 600   |
| IPHE2929    | 724             | 719   | 18    | IPRK2929            | 800                     | 800   |
| IPHE3221    | 799             | 519   | 18    | –                   | partial                 | 600   |
| IPHE3229    | 799             | 719   | 18    | –                   | partial                 | 800   |
| IPHE3721    | 924             | 519   | 18    | IPRK3721            | 1000                    | 600   |
| IPHE3725    | 924             | 619   | 18    | IPRK3725            | 1000                    | 700   |
| IPHE3729    | 924             | 719   | 18    | IPRK3729            | 1000                    | 800   |
| IPHE4521    | 1124            | 519   | 18    | IPRK4521            | 1200                    | 600   |
| IPHE4529    | 1124            | 719   | 18    | IPRK4529            | 1200                    | 800   |
| IPHE6121    | 1524            | 519   | 18    | IPRK6121            | 1600                    | 600   |
| IPHE6129    | 1524            | 719   | 18    | IPRK6129            | 1600                    | 800   |
| IPHE6921    | 1724            | 519   | 18    | IPRK6921            | 1800                    | 600   |
| IPHE6929    | 1724            | 719   | 18    | IPRK6929            | 1800                    | 800   |
| IPHE7721    | 1924            | 519   | 18    | IPRK7721            | 2000                    | 600   |
| IPHE7729    | 1924            | 719   | 18    | IPRK7729            | 2000                    | 800   |



IPHE

### Escutcheon Rails

Used where two escutcheons meet in the enclosures.

| Part Number       | Description | Height (mm)     |
|-------------------|-------------|-----------------|
| IPEJ <sup>▲</sup> | Pack of 10  | joining bracket |
| IPER05            | –           | 525             |
| IPER07            | –           | 725             |
| IPER19            | –           | 1975            |

<sup>▲</sup> Available on request



IPER

# Monarch IP

Accessories to suit all Monarch IP enclosures



## Fixed Esutcheons

Used for covering internal controls and accessories. They form a second tier mounting arrangement, in front of the mounting pan. They can be mounted singularly or with two or more fitted into the enclosure. Fitting requires universal rail kit (see page 92).

| Part Number           | Dimensions (mm) |       |       | Required (rail kit) | To suit enclosures (mm) |       |
|-----------------------|-----------------|-------|-------|---------------------|-------------------------|-------|
|                       | Height          | Width | Depth |                     | Height                  | Width |
| IPFE1308 <sup>▲</sup> | 324             | 199   | 18    | –                   | –                       | –     |
| IPFE1313              | 324             | 324   | 18    | IPRK1313            | 400                     | 400   |
| IPFE1316 <sup>▲</sup> | 324             | 399   | 18    | –                   | –                       | –     |
| IPFE1321              | 324             | 524   | 18    | IPRK1321            | 400                     | 600   |
| IPFE1329              | 324             | 724   | 18    | –                   | 400                     | 800   |
| IPFE1616 <sup>▲</sup> | 399             | 399   | 18    | –                   | –                       | –     |
| IPFE2108              | 524             | 199   | 18    | –                   | 600                     | –     |
| IPFE2113              | 524             | 324   | 18    | IPRK2113            | 600                     | 400   |
| IPFE2116              | 524             | 399   | 18    | –                   | 600                     | –     |
| IPFE2121              | 524             | 524   | 18    | IPRK2121            | 600                     | 600   |
| IPFE2129              | 524             | 724   | 18    | IPRK2129            | 600                     | 800   |
| IPFE2408              | 599             | 199   | 18    | –                   | –                       | –     |
| IPFE2413              | 599             | 324   | 18    | –                   | –                       | –     |
| IPFE2416              | 599             | 399   | 18    | –                   | –                       | –     |
| IPFE2421              | 599             | 524   | 18    | –                   | –                       | –     |
| IPFE2429              | 599             | 724   | 18    | –                   | –                       | –     |
| IPFE2525 <sup>▲</sup> | 624             | 624   | 18    | IPRK2525            | 700                     | 700   |
| IPFE2908              | 724             | 199   | 18    | –                   | 800                     | –     |
| IPFE2916              | 724             | 399   | 18    | –                   | 800                     | –     |
| IPFE2921              | 724             | 524   | 18    | IPRK2921            | 800                     | 600   |
| IPFE2929              | 724             | 724   | 18    | IPRK2929            | 800                     | 800   |
| IPFE3208              | 799             | 199   | 18    | –                   | –                       | –     |
| IPFE3213              | 799             | 324   | 18    | –                   | –                       | –     |
| IPFE3216              | 799             | 399   | 18    | –                   | –                       | –     |
| IPFE3221              | 799             | 524   | 18    | –                   | –                       | –     |
| IPFE3229              | 799             | 724   | 18    | –                   | –                       | –     |
| IPFE3708              | 924             | 199   | 18    | –                   | –                       | –     |
| IPFE3713              | 924             | 324   | 18    | –                   | –                       | –     |
| IPFE3716              | 924             | 399   | 18    | –                   | –                       | –     |
| IPFE3721              | 924             | 524   | 18    | IPRK3721            | 1000                    | 600   |
| IPFE3725 <sup>▲</sup> | 924             | 624   | 18    | IPRK3725            | 1000                    | 700   |
| IPFE3729              | 924             | 724   | 18    | IPRK3729            | 1000                    | 800   |
| IPFE4508              | 1124            | 199   | 18    | –                   | –                       | –     |
| IPFE4513 <sup>▲</sup> | 1124            | 324   | 18    | –                   | 1200                    | 400   |
| IPFE4516 <sup>▲</sup> | 1124            | 399   | 18    | –                   | –                       | –     |
| IPFE4521              | 1124            | 524   | 18    | IPRK4521            | 1200                    | 600   |
| IPFE4529              | 1124            | 724   | 18    | IPRK4529            | 1200                    | 800   |

<sup>▲</sup> Available on request



IPFE

## Mounting Brackets

For ease of installation and fixing to the mounting surface. Mounting brackets ensure optimum installation and safety.

| Part Number | Material          | Quantity | To suit enclosure width (mm) |
|-------------|-------------------|----------|------------------------------|
| MEB/S       | Stainless steel   | 4        | all                          |
| IPWM        | Zinc coated steel | 4        | all                          |
| IPWM/A      | Aluminium         | 4        | all                          |
| IPWM/S      | Stainless steel   | 4        | all                          |



MEB/S

# Monarch IP

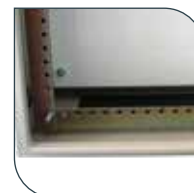
## Accessories to suit all Monarch IP enclosures

### Universal Rail Kits

Used to install both fixed and hinged escutcheons and complete with 4 rails and fixings. A pair of height rails and a pair of width rails are provided in each kit.

| Part Number           | Rail lengths (mm) |            | To suit enclosures (mm) |       |
|-----------------------|-------------------|------------|-------------------------|-------|
|                       | Rail Height       | Rail Width | Height                  | Width |
| IPRK1313              | 375               | 325        | 400                     | 400   |
| IPRK1321              | 375               | 525        | 400                     | 600   |
| IPRK1329              | 375               | 725        | 400                     | 800   |
| IPRK2113              | 575               | 325        | 600                     | 400   |
| IPRK2121              | 575               | 525        | 600                     | 600   |
| IPRK2129              | 575               | 725        | 600                     | 800   |
| IPRK2525 <sup>▲</sup> | 675               | 625        | 700                     | 700   |
| IPRK2921              | 775               | 525        | 800                     | 600   |
| IPRK2929              | 775               | 725        | 800                     | 800   |
| IPRK3721              | 975               | 525        | 1000                    | 600   |
| IPRK3725              | 975               | 625        | 1000                    | 700   |
| IPRK3729              | 975               | 725        | 1000                    | 800   |
| IPRK4521              | 1175              | 525        | 1200                    | 600   |
| IPRK4529              | 1175              | 725        | 1200                    | 800   |
| IPRK6121              | 1575              | 525        | 1600                    | 600   |
| IPRK6129              | 1575              | 725        | 1600                    | 800   |
| IPRK6921              | 1775              | 525        | 1800                    | 600   |
| IPRK6929              | 1775              | 725        | 1800                    | 800   |
| IPRK7721              | 1975              | 525        | 2000                    | 600   |
| IPRK7729              | 1975              | 725        | 2000                    | 800   |

<sup>▲</sup> Available on request



IPRK

### Door Stays

Ensures door remains open even in windy weather ensuring the safety of people working on the installed equipment.

| Part Number | Quantity | To suit enclosure width (mm)       |
|-------------|----------|------------------------------------|
| IPDS        | 1        | All (except IP09051/S & IP13091/S) |



IPDS

### Eye Bolts

Ensures enclosure is not damaged when lifted and can be moved safely. Compliant to AS4991:Lifting Devices.

| Part Number | Quantity | Lift Rating    | To suit enclosure width (mm) |
|-------------|----------|----------------|------------------------------|
| LEB/12      | 2        | 125kg per bolt | all                          |



LEB/12



# Monarch IP

Accessories to suit all Monarch IP enclosures



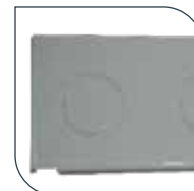
## Shelves

White powdercoated shelving comes complete with knockout for cabling and all fittings. Designed for use as segregation panels for switchboard applications mounting fixed equipment.

| Part Number          | Dimensions (mm) |       | To suit enclosures (mm) |       |
|----------------------|-----------------|-------|-------------------------|-------|
|                      | Width           | Depth | Width                   | Depth |
| IPSH211 <sup>▲</sup> | 563             | 105   | 600                     | 175   |
| IPSH212              | 563             | 160   | 600                     | 270   |
| IPSH214              | 563             | 280   | 600                     | 400   |
| IPSH215              | 563             | 380   | 600                     | 500   |
| IPSH216              | 563             | 480   | 600                     | 600   |
| IPSH254 <sup>▲</sup> | 663             | 280   | 700                     | 400   |
| IPSH292 <sup>▲</sup> | 763             | 160   | 800                     | 270   |
| IPSH294              | 763             | 280   | 800                     | 400   |
| IPSH295              | 763             | 380   | 800                     | 500   |
| IPSH296              | 763             | 480   | 800                     | 600   |

<sup>▲</sup> Available on request

STATIC  
UDL  
200kg



IPSH



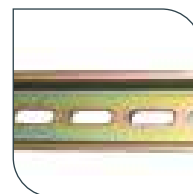
These shelves are NOT designed for load during transport.

## DIN Rails

Used for mounting DIN switchgear and accessories into the enclosure. It is available for all models in aluminium, steel and slotted designs.

| Part Number         | Material      | Description                          | Dimensions (mm) |       |
|---------------------|---------------|--------------------------------------|-----------------|-------|
|                     |               |                                      | Length          | Depth |
| IPDN03              | Aluminium     | —                                    | 360             | 15    |
| IPDN05 <sup>▲</sup> |               |                                      | 560             | 15    |
| IPDN07 <sup>▲</sup> |               |                                      | 760             | 15    |
| DIN35/7.5           | Steel         | —                                    | 2000            | 7.5   |
| DIN35/7.5SL         | Steel slotted | —                                    | 2000            | 7.5   |
| DINSB               | —             | Mounting kit, angle support brackets | —               | —     |

<sup>▲</sup> Available on request



DIN35/7.5SL

# Monarch IP

## Accessories to suit all Monarch IP enclosures

### Standard Rails – C Section

Used to fit additional accessories and rails in the enclosure.

| Part Number | Description                  | Height (mm) | To suit enclosure depth (mm) |
|-------------|------------------------------|-------------|------------------------------|
| IPCR01▲     |                              | 137         | –                            |
| IPCR02      |                              | 232         | 270                          |
| IPCR03      |                              | 360         | 400                          |
| IPCR04      |                              | 460         | 500                          |
| IPCR05      |                              | 560         | 600                          |
| IPTO        | Takeoff bracket (pack of 10) | –           | –                            |

▲ Available on request



IPCR



IPTO

### Universal Rails

Designed for mounting equipment inside an enclosure. Either fixed lengths or can be cut to size requirements.

| Part Number | Description | Length (mm) | To suit enclosure height (mm) |
|-------------|-------------|-------------|-------------------------------|
| IPUV        | 25 pitch    | 1975        | all                           |
| UV1▲        | 20 pitch    | 1984        | all                           |

▲ Available on request



IPUV

### 19" Mounting Rails

Designed for mounting equipment inside an enclosure. Either fixed lengths or can be cut to size requirements.

| Part Number | Dimensions (mm) |       |       | To suit enclosures (mm) |       |
|-------------|-----------------|-------|-------|-------------------------|-------|
|             | Height          | Width | Depth | Height                  | Width |
| UV19        | 1946            | 58.5  | 76    | –                       |       |
| IPRU11      | 536             | –     | –     | 600                     |       |
| IPRU15      | 758             | –     | –     | 800                     |       |
| IPRU24      | 1158            | –     | –     | 1200                    | 600   |
| IPRU32▲     | 1469            | –     | –     | 1600                    |       |
| IPRU38▲     | 1736            | –     | –     | 1800                    |       |
| IPRU42▲     | 1958            | –     | –     | 2000                    |       |
| IPRU11/800▲ | 536             | –     | –     | 600                     |       |
| IPRU15/800▲ | 758             | –     | –     | 800                     |       |
| IPRU24/800▲ | 1158            | –     | –     | 1200                    | 800   |
| IPRU32/800▲ | 1469            | –     | –     | 1600                    |       |
| IPRU38/800▲ | 1736            | –     | –     | 1800                    |       |
| IPRU42/800▲ | 1958            | –     | –     | 2000                    |       |

▲ Available on request



IPRU

### Laptop Lecterns

Designed to allow fast and easy access when using a laptop computer. The laptop lectern protrudes 45mm inside the door. Mounting requires door rails (purchased separately).

| Part Number | Description           | Dimensions (mm) |       | To suit door (mm) |             |
|-------------|-----------------------|-----------------|-------|-------------------|-------------|
|             |                       | Width           | Depth | Height            | Width       |
| IPLL▲       | Laptop lectern        | 440             | 300   | 600 & above       | 600 & above |
| IPRD6▲      | Door rails (set of 2) | –               | –     | –                 | 600         |
| IPRD8▲      |                       | –               | –     | –                 | 800         |

▲ Available on request



IPLL

# Monarch IP

Accessories to suit all Monarch IP enclosures



## Document Holders

Designed to standard A4 documents such as procedures and diagrams to ensure that they are kept clean and conveniently located.

| Part Number | Description       | To suit enclosure width (mm) |
|-------------|-------------------|------------------------------|
| IPPLN       | A4 Plastic        | all                          |
| IPPLN04/35  | A4 Metal          | 400 & above                  |
| IPPLN04/80▲ | A4 Metal – Folder | 400 & above                  |
| IPPLN06/15  | A3                | 600 & above                  |
| IPPLN06/35▲ | A3 Metal          | 600 & above                  |
| IPPLN06/80▲ | A3 Metal – Folder | 600 & above                  |

▲ Available on request.



IPPLN

## Schedule Holders

Used to ensure maintenance schedules are always displayed prominently.

| Part Number | Description | Mounting       | Colour              | Dimensions (mm) |       |       | To suit enclosure (mm) |       |
|-------------|-------------|----------------|---------------------|-----------------|-------|-------|------------------------|-------|
|             |             |                |                     | Height          | Width | Depth | Height                 | Width |
| IPLC150▲    | 150 line    | Door rail      | Pebble Grey RAL7032 | 255             | 210   | –     | 400                    | 300   |
| IPLC40▲     | 40 line     |                |                     | 230             | 110   | –     | 300                    | 200   |
| LCH40       | 40 line     | Tape or rivets | Light Grey RAL7035  | 230             | 110   | 8     | 300                    | 200   |
| LCH60       | 60 line     |                |                     | 260             | 210   | 8     | 400                    | 300   |
| LCH78▲      | 78 line     |                |                     | 380             | 110   | 8     | 500                    | 200   |

▲ Available on request



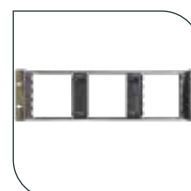
IPLC

## Backmount Frame

| Part Number | Description     | Height (RU) |
|-------------|-----------------|-------------|
| FCCD15/19*▲ | 15-Way, 19 inch | 3           |

▲ Available on request

\* 19 inch mounting rails required refer to page 88.



FCCD15/19

## Load Centre

| Part Number | Description      | Height (RU) |
|-------------|------------------|-------------|
| FCLC19/19*  | 19-pole, 19 inch | 5           |

\* 19 inch mounting rails required refer to page 88.



FCLC19/19

# Monarch IP

## Accessories to suit all Monarch IP enclosures

### General Accessories

A range of general accessories to suit all Monarch IP enclosures.

| Part Number             | Product                               | Description                              |
|-------------------------|---------------------------------------|--|
| IPNLK <sup>▲</sup>      | Night latch kit bracket               | To enable Lockwood deadbolt to be fitted |
| IPP06 <sup>▲</sup>      |                                       | M6                                       |
| IPP10 <sup>▲</sup>      | Hole plug (pack of 20)                | M10                                      |
| IPP13 <sup>▲</sup>      |                                       | M13                                      |
| IPBO612                 | Bolt – hex head (pack of 20)          | M6 x 12mm                                |
| IPBO625                 |                                       | M6 x 25mm                                |
| IPBO812                 |                                       | M8 x 12mm                                |
| IPBO825                 |                                       | M8 x 25mm                                |
| IPBO830 <sup>▲</sup>    |                                       | M8 x 30mm                                |
| IPBO0840/D <sup>▲</sup> | Accessory kit seal screw (pack of 10) | M8 x 40                                  |
| IPN06 <sup>▲</sup>      | Hex head nuts (pack of 20)            | M6                                       |
| IPN08 <sup>▲</sup>      |                                       | M8                                       |
| IPCG06                  | Cage Nuts (pack of 20)                | M6                                       |
| IPCG08                  |                                       | M8                                       |
| IPCN06                  | Foam back nuts (pack of 20)           | M6                                       |
| IPCN08                  |                                       | M8                                       |
| IPTO616 <sup>▲</sup>    | Screws – taptite (pack of 20)         | M6 x 16mm                                |
| IPTPO616/S <sup>▲</sup> | Tamper proof screws with security bit | M6 x 16mm (pack of 10)                   |
| IPWF06 <sup>▲</sup>     | Flat washers (pack of 20)             | M6                                       |
| IPWF08 <sup>▲</sup>     |                                       | M8                                       |
| IPWG06                  | Seal washers (pack of 20)             | Small                                    |
| IPWS06 <sup>▲</sup>     | Star washers (pack of 20)             | M6                                       |
| IPWS08                  |                                       | M8                                       |
| IPWSP06                 | Spring washers (pack of 20)           | M6                                       |
| IPWSP08                 |                                       | M8                                       |
| IPOR06 <sup>▲</sup>     | Sealing ring (pack of 20)             | M6                                       |
| IPCDH <sup>▲</sup>      | D handle                              | Chrome                                   |
| ECESK <sup>▲</sup>      | Earth strap kit                       | –  |
| IPZRLG <sup>▲</sup>     | Z Rail                                | 760mm                                    |
| TUP/P20                 | Touch Up Paint (300g)                 | Pebble Grey RAL7032                      |
| TUP/P29                 |                                       | Light Grey RAL7035                       |

<sup>▲</sup> Available on request

# Locks

## Locks to suit Monarch IP enclosures



### Standard Locks

| Enclosure | Zinc Coated Steel                                       | Stainless Steel  | Aluminium  |
|-----------|---|--|--|
| ≤1600mm   | IP020 – chromed steel lock with 7mm square steel insert | IP020/S – black powdercoated lock with 7mm square stainless steel insert | IP020/PS – chromed steel lock with 7mm square steel insert |
| +1600mm   | IP050 – lockable L handle keyed 92268                   | IP050 – lockable L handle keyed 92268                                    | IP050 – lockable L handle keyed 92268                      |

### Lock Options for Monarch IP Enclosures

There are a number of lock options available that are suitable for use on Monarch IP enclosures. Contact your local sales representative to discuss your requirements.

| Product      | Description                   | Part Number | Standard Lock/Insert                              | Alternative insert | Keys             |             |
|--------------|-------------------------------|-------------|---|--------------------|------------------|-------------|
|              |                               |             |   |                    | Lockable handles | Zinc, 4-way |
| Turnbuckle   | chromed steel                 | IP020       | 7mm square – steel                                | See below          |                  | SKZ         |
|              | powdercoated                  | IP020/PS    | 7mm square – stainless steel                      | See below          |                  | SKZ         |
|              | stainless steel               | IP020/S     | 7mm square – stainless steel                      | See below          |                  | SKZ         |
|              |                               | IP028S/S    | 8mm square slotted – stainless steel              | See below          |                  |             |
| Wing knob    | lockable                      | IP030       | Key code 92268                                    |                    | SK3              |             |
|              | lockable                      | IP030/CL001 | Key code CL001                                    |                    |                  |             |
|              | lockable                      | IP030/L003  | Key code L003                                     |                    |                  |             |
|              | padlockable                   | IP032       | Suit 8mm hasp                                     |                    |                  |             |
|              | padlockable - stainless steel | IP032/S     | Suit 8mm hasp                                     |                    |                  |             |
|              | non-lockable                  | IP111       | –   |                    |                  |             |
| T-handle     | lockable                      | IP040       | Key code 92268                                    |                    | SK3              |             |
| L-handle     | lockable                      | IP050       | Key code 92268                                    |                    | SK3              |             |
|              | lockable – stainless steel    | IP050/S     | Key code 92268                                    |                    | SK3              |             |
|              | padlockable – steel           | IP052       | –   |                    |                  |             |
|              | padlockable – stainless steel | IP052/S     | –   |                    |                  |             |
| Swing handle | padlockable – steel           | IP060       | Suitable for up to 9mm diameter pad-lock shackle. |                    |                  |             |
|              | padlockable – stainless steel | IP060/S     |   |                    |                  |             |



### Lock Inserts for IP020 Locks

The IP020 locks are available with an option lock insert for use on all Monarch IP enclosures. Contact your local sales engineer to discuss your requirements.

| To suit lock style  | Description                 | To suit lock | Standard Insert              | 3mm double bit pin |                 | 8mm square |                 | 8mm square slotted |                 | 8mm triangle |                 |
|---------------------|-----------------------------|--------------|------------------------------|--------------------|-----------------|------------|-----------------|--------------------|-----------------|--------------|-----------------|
|                     |                             |              |                              | Steel              | Stainless Steel | Steel      | Stainless Steel | Stainless Steel    | Stainless Steel | Steel        | Stainless Steel |
| Turnbuckle          | chromed steel               | IP020        | 7mm square – steel           | LKINS3P            |                 | LKINS8S    |                 | LKINS8SS/S         |                 | LKINS8T      |                 |
|                     | powdercoated with SS insert | IP020/PS     | 7mm square – stainless steel |                    | LKINS3P/S       |            | LKINS8S/S       | LKINS8SS/S         |                 | LKINS8T/S    |                 |
|                     | stainless steel             | IP020/S      | 7mm square – stainless steel |                    | LKINS3P/S       |            | LKINS8S/S       | LKINS8SS/S         |                 | LKINS8T/S    |                 |
| Key required – zinc |                             |              | SKZ                          | SKZ                | SKZ             | SKZ        | SKZ             | SKZ                |                 | SKZ          | SKZ             |

# Universal NI – Zinc Coated Steel

## General Purpose Enclosures



- Built for industrial and demanding environments.
- Threaded sockets on the rear of the enclosure to allow mounting feet attachment without compromising the IP rating.
- 120° door opening for ease of access to internal systems.
- Conformity, Approvals:
  - CE Mark
  - Lloyds Register #06/10007 (E2)
- Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
- Manufactured from 1.2/1.6mm thick zinc coated steel.
- Powdercoated Pebble Grey RAL7032 or X15 Orange.

Comes standard with:

- 2mm steel mounting pan powdercoated white
- Gland plate (200mm deep and above)
- Chromed steel lock with 7mm square steel insert (NI020)
- Door rails
- Earth strap kit



## ORDERING GUIDE

| Part Number |              | Dimensions (mm) |              |              |                      |               |              |               |              | No. of<br>Fixing Points<br>(Suits M8<br>fixings) | Material<br>Thickness<br>(mm) | Weight<br>(kg) |
|-------------|--------------|-----------------|--------------|--------------|----------------------|---------------|--------------|---------------|--------------|--|-------------------------------|----------------|
|             |              | External        |              |              | Internal             | Mounting Pan  |              | Gland Opening |              |  |                               |                |
| Standard    | X15 Orange   | Height<br>(A)   | Width<br>(B) | Depth<br>(C) | Usable Depth<br>(D)* | Height<br>(E) | Width<br>(F) | Width<br>(G)  | Depth<br>(H) |  |                               |                |
| NI03021     | NI03021/RO   | 300             | 200          | 150          | 125                  | 250           | 150          | —             | —            | 4  | 1.2                           | 3.9            |
| NI03031     | NI03031/RO   | 300             | 300          | 150          | 125                  | 250           | 250          | —             | —            | 4  | 1.2                           | 5.0            |
| NI03041     | NI03041/RO   | 300             | 400          | 150          | 125                  | 250           | 350          | —             | —            | 4  | 1.2                           | 6.5            |
| NI04032■    | NI04032/RO■  | 400             | 300          | 200          | 175                  | 350           | 250          | 250           | 120          | 4  | 1.6                           | 8.0            |
| NI03042     | NI03042/RO   | 300             | 400          | 200          | 175                  | 250           | 350          | 250           | 120          | 4  | 1.6                           | 7.5            |
| NI04042■    | NI04042/RO■  | 400             | 400          | 200          | 175                  | 350           | 350          | 250           | 120          | 4  | 1.6                           | 12.0           |
| NI05042■    | NI05042/RO■  | 500             | 400          | 200          | 175                  | 450           | 350          | 250           | 120          | 4  | 1.6                           | 14.0           |
| NI06042■    | NI06042/RO■  | 600             | 400          | 200          | 175                  | 550           | 350          | 250           | 120          | 4  | 1.6                           | 17.0           |
| NI05052■    | NI05052/RO■  | 500             | 500          | 200          | 175                  | 450           | 450          | 440           | 120          | 4  | 1.6                           | 17.0           |
| NI04062■    | NI04062/RO■^ | 400             | 600          | 200          | 175                  | 350           | 550          | 440           | 120          | 4  | 1.6                           | 16.0           |
| NI06062■    | NI06062/RO■  | 600             | 600          | 200          | 175                  | 550           | 550          | 440           | 120          | 4  | 1.6                           | 23.0           |
| NI08062■    | NI08062/RO■  | 800             | 600          | 200          | 175                  | 750           | 550          | 440           | 120          | 6  | 1.6                           | 30.0           |
| NI10062■    | NI10062/RO■^ | 1000            | 600          | 200          | 175                  | 950           | 550          | 440           | 120          | 6  | 1.6                           | 37.0           |
| NI04043■    | NI04043/RO■  | 400             | 400          | 300          | 275                  | 350           | 350          | 250           | 120          | 4  | 1.6                           | 14.0           |
| NI06043■    | NI06043/RO■  | 600             | 400          | 300          | 275                  | 550           | 350          | 250           | 120          | 4  | 1.6                           | 20.0           |
| NI04063■    | NI04063/RO■^ | 400             | 600          | 300          | 275                  | 350           | 550          | 440           | 120          | 4  | 1.6                           | 19.0           |
| NI06063■    | NI06063/RO■  | 600             | 600          | 300          | 275                  | 550           | 550          | 440           | 120          | 4  | 1.6                           | 27.0           |
| NI08063■    | NI08063/RO■  | 800             | 600          | 300          | 275                  | 750           | 550          | 440           | 120          | 6  | 1.6                           | 34.0           |
| NI10063■    | NI10063/RO■  | 1000            | 600          | 300          | 275                  | 950           | 550          | 440           | 120          | 6  | 1.6                           | 41.0           |
| NI08083^    | NI08083/RO^^ | 800             | 800          | 300          | 275                  | 750           | 750          | 440           | 120          | 6  | 1.6                           | 43.0           |
| NI10083^    | NI10083/RO^^ | 1000            | 800          | 300          | 275                  | 950           | 750          | 440           | 120          | 6  | 1.6                           | 52.0           |
| NI12083^    | NI12083/RO^^ | 1200            | 800          | 300          | 275                  | 1150          | 750          | 440           | 120          | 6  | 1.6                           | 61.0           |

\* Mounting pan to inside of door

■ Includes vertical door rails

^ Includes horizontal and vertical door rails

▲ Available on request



# Universal NI – Zinc Coated Steel

## General Purpose Enclosures



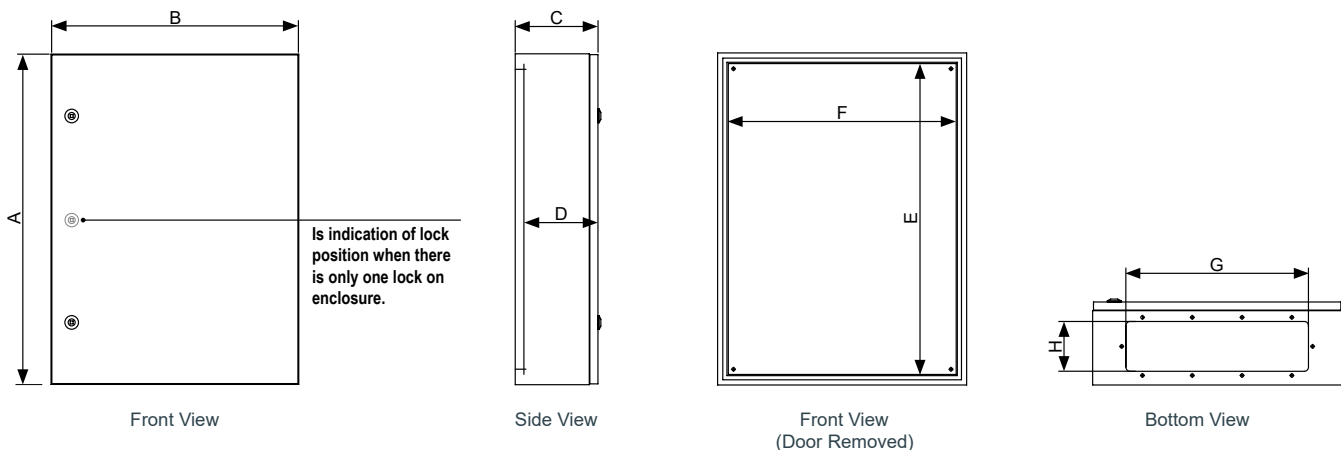
### ACCESSORIES

| Product                                      | Description         | Part Number | Dimensions (mm) |       |       | N103021 (RO) | N103031 (RO) | N103041 (RO) | N104032 (RO) | N103042 (RO) | N104042 (RO) | N105042 (RO) | N106042 (RO) | N105052 (RO) | N104062 (RO) | N106062 (RO) | N110062 (RO) | N104043 (RO) | N106043 (RO) | N106063 (RO) | N108063 (RO) | N110063 (RO) | N108083 (RO) | N110083 (RO) | N112083 (RO) |
|--|---------------------|-------------|-----------------|-------|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|  |                     |             | Height          | Width | Depth |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| Rainhoods                                    | Zinc coated steel   | NIRH021     | 30              | 175.6 | 65    | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIRH031▲    | 30              | 275.6 | 65    |              | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIRH032▲    | 30              | 275.6 | 105   |              |              |              | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIRH041▲    | 30              | 375.6 | 65    |              |              | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIRH042     | 30              | 375.6 | 105   |              |              |              |              | •            | •            | •            | •            |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIRH043     | 30              | 375.6 | 220   |              |              |              |              |              |              |              |              |              |              |              |              | •            | •            |              |              |              |              |              |              |
|  |                     | NIRH052▲    | 30              | 475.6 | 105   |              |              |              |              |              |              |              |              | •            |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIRH062▲    | 30              | 575.6 | 105   |              |              |              |              |              |              |              |              |              | •            | •            | •            | •            |              |              |              |              |              |              |              |
|  |                     | NIRH063     | 30              | 575.6 | 220   |              |              |              |              |              |              |              |              |              |              |              |              |              |              | •            | •            | •            | •            |              |              |
|  |                     | NIRH082▲    | 30              | 775.6 | 105   |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| NIRH083▲                                     | 30                  | 775.6       | 220             |       |       |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              | •            | •            | •            |              |
| External vent kits – Zinc coated steel       | Pebble Grey RAL7032 | IPVK        | 130             | 130   | –     | ▲            | ▲            | ▲            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            |              |
|  |                     | IPVK16      | 260             | 260   | –     |              | ▲            | ▲            | ▲            | ▲            |              | ▲            | ▲            | ▲            | ▲            | ▲            | ▲            | •            | •            | •            | •            | •            | •            | •            |              |
|  | X15 Orange          | IPVK/RO     | 130             | 130   | –     | ▲            | ▲            | ▲            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            |              |
|  |                     | IPVK16/RO▲  | 260             | 260   | –     |              | ▲            | ▲            | ▲            | ▲            |              | ▲            | ▲            | ▲            | ▲            | ▲            | ▲            | •            | •            | •            | •            | •            | •            | •            |              |
| Wall mounting brackets – 316 stainless steel | Set of 4            | MEB/S       | –               | –     | –     | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            |              |              |
| Mounting flange kit – 316 stainless steel    |                     | MF2/S▲      | 75              | 200   | –     | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | MF3/S       | 75              | 300   | –     |              | •            | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | MF4/S       | 75              | 400   | –     |              |              | •            | •            | •            | •            | •            |              |              |              |              |              | •            | •            |              |              |              |              |              |              |
|  |                     | MF5/S▲      | 75              | 500   | –     |              |              |              |              |              |              |              |              | •            |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | MF6/S▲      | 75              | 600   | –     |              |              |              |              |              |              |              |              |              | •            | •            | •            | •            |              | •            | •            | •            |              |              |              |
|  |                     | MF8/S▲      | 75              | 800   | –     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              | •            | •            | •            |
| Mounting Pan -                               |                     | NIMP0302    | 250             | 150   | –     | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIMP0303    | 250             | 250   | –     |              | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIMP0403    | 350             | 250   | –     |              |              |              | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIMP0304    | 250             | 350   | –     |              |              | •            | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIMP0404    | 350             | 350   | –     |              |              |              |              | •            |              |              |              |              |              |              |              | •            |              |              |              |              |              |              |              |
|  |                     | NIMP0504    | 450             | 350   | –     |              |              |              |              |              | •            |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIMP0604    | 550             | 350   | –     |              |              |              |              |              |              | •            |              |              |              |              |              |              | •            |              |              |              |              |              |              |
|  |                     | NIMP0505    | 450             | 450   | –     |              |              |              |              |              |              |              | •            |              |              |              |              |              |              |              |              |              |              |              |              |
|  |                     | NIMP0406    | 350             | 550   | –     |              |              |              |              |              |              |              |              | •            |              |              |              |              |              | •            |              |              |              |              |              |
|  |                     | NIMP0606    | 550             | 550   | –     |              |              |              |              |              |              |              |              |              |              | •            |              |              |              |              | •            |              |              |              |              |
|  |                     | NIMP0806    | 750             | 550   | –     |              |              |              |              |              |              |              |              |              |              |              | •            |              |              |              |              | •            |              |              |              |
|  |                     | NIMP1006    | 950             | 550   | –     |              |              |              |              |              |              |              |              |              |              |              |              | •            |              |              |              |              | •            |              |              |
|  |                     | NIMP0808    | 750             | 750   | –     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              | •            |              |              |
|  |                     | NIMP1008    | 950             | 750   | –     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              | •            |              |
|  |                     | NIMP1208    | 1150            | 750   | –     |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              | •            |
| Gland plates                                 | 6mm aluminium       | SRAGP6/2    | 290             | 160   | –     |              |              |              | •            | •            | •            | •            | •            |              |              |              |              | •            | •            |              |              |              |              |              |              |
|  |                     | SRAGP6/3    | 480             | 160   | –     |              |              |              |              |              |              |              |              | •            | •            | •            | •            |              |              | •            | •            | •            | •            | •            |              |
|  | 3mm brass           | SRBGP3/2    | 290             | 160   | –     |              |              |              | •            | •            | •            | •            | •            |              |              |              |              | •            | •            |              |              |              |              |              |              |
|  |                     | SRBGP3/3    | 480             | 160   | –     |              |              |              |              |              |              |              |              | •            | •            | •            | •            |              |              | •            | •            | •            | •            | •            |              |
|  | 6mm brass           | SRBGP6/2    | 290             | 160   | –     |              |              |              | •            | •            | •            | •            | •            |              |              |              |              | •            | •            |              |              |              |              |              |              |
|  |                     | SRBGP6/3    | 480             | 160   | –     |              |              |              |              |              |              |              | •            | •            | •            | •            |              |              | •            | •            | •            | •            | •            |              |              |
| Replacement Hinge                            | Kit                 | NI/H        | –               | –     | –     | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            |              |              |
| Touch Up Paint (300g)                        | Pebble Grey RAL7032 | TUP/P20     | –               | –     | –     | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            |              |              |
|  | X15 Orange          | TUP/P24     | –               | –     | –     | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            | •            |              |              |

<sup>▲</sup> Fits door only

<sup>▲</sup> Available on request

### TECHNICAL DRAWINGS



# Universal NI Viewing Window– Zinc Coated Steel

## General Purpose Enclosures



- Built for industrial and demanding environments.
- Threaded sockets on the rear of the enclosure to allow mounting feet attachment without compromising the IP rating.
- 120° door opening for ease of access to internal systems.
- Conformity, Approvals:
  - CE Mark
  - Lloyds Register #06/10007 (E2)
- Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
- Manufactured from 1.6mm thick zinc coated steel.
- Powdercoated Pebble Grey RAL7032 or X15 Orange.

Comes standard with:

- 2mm steel mounting pan powdercoated white
- Gland plate (200mm deep and above)
- Chromed steel lock with 7mm square steel insert (NI020)
- Door rails
- Earth strap kit
- Glass Viewing Window - 5.4mm thickness



### ORDERING GUIDE

| Part Number  |                 | Dimensions (mm) |           |           |                   |              |           |                |           |
|--------------|-----------------|-----------------|-----------|-----------|-------------------|--------------|-----------|----------------|-----------|
|              |                 | External        |           |           | Internal          | Mounting Pan |           | Viewing Window |           |
|              |                 | Height (A)      | Width (B) | Depth (C) | Usable Depth (D)* | Height (E)   | Width (F) | Height (G)     | Width (H) |
| Standard     | X15 Orange      |                 |           |           |                   |              |           |                |           |
| NI04042/WG■▲ | NI04042/RO/WG■▲ | 400             | 400       | 200       | 175               | 350          | 350       | 185            | 185       |
| NI05042/WG■▲ | NI05042/RO/WG■▲ | 500             | 400       | 200       | 175               | 450          | 350       | 278            | 185       |
| NI06042/WG■▲ | NI06042/RO/WG■▲ | 600             | 400       | 200       | 175               | 550          | 350       | 378            | 185       |
| NI05052/WG■▲ | NI05052/RO/WG■▲ | 500             | 500       | 200       | 175               | 450          | 450       | 278            | 273       |
| NI04062/WG■▲ | NI04062/RO/WG■▲ | 400             | 600       | 200       | 175               | 350          | 550       | 185            | 373       |
| NI06062/WG■▲ | NI06062/RO/WG■▲ | 600             | 600       | 200       | 175               | 550          | 550       | 378            | 373       |
| NI08062/WG■▲ | NI08062/RO/WG■▲ | 800             | 600       | 200       | 175               | 750          | 550       | 578            | 373       |
| NI10062/WG■▲ | NI10062/RO/WG■▲ | 1000            | 600       | 200       | 175               | 950          | 550       | 778            | 373       |
| NI04043/WG■▲ | NI04043/RO/WG■▲ | 400             | 400       | 300       | 275               | 350          | 350       | 185            | 185       |
| NI06043/WG■▲ | NI06043/RO/WG■▲ | 600             | 400       | 300       | 275               | 550          | 350       | 378            | 185       |
| NI04063/WG■▲ | NI04063/RO/WG■▲ | 400             | 600       | 300       | 275               | 350          | 550       | 185            | 373       |
| NI06063/WG■▲ | NI06063/RO/WG■▲ | 600             | 600       | 300       | 275               | 550          | 550       | 378            | 373       |
| NI08063/WG■▲ | NI08063/RO/WG■▲ | 800             | 600       | 300       | 275               | 750          | 550       | 578            | 373       |
| NI10063/WG■▲ | NI10063/RO/WG■▲ | 1000            | 600       | 300       | 275               | 950          | 550       | 778            | 373       |
| NI08083/WG^▲ | NI08083/RO/WG^▲ | 800             | 800       | 300       | 275               | 750          | 750       | 578            | 573       |
| NI10083/WG^▲ | NI10083/RO/WG^▲ | 1000            | 800       | 300       | 275               | 950          | 750       | 778            | 573       |
| NI12083/WG^▲ | NI12083/RO/WG^▲ | 1200            | 800       | 300       | 275               | 1150         | 750       | 978            | 573       |

\* Mounting pan to inside of door

■ Includes vertical door rails

^ Includes horizontal and vertical door rails

▲ Available on request

Images show the window shape on the smallest size enclosures. Window corner radius is 100mm on all sizes of enclosures.



# Universal NI Viewing Window – Zinc Coated Steel

## General Purpose Enclosures



### ACCESSORIES

| Product  | Description         | Part Number | Dimensions (mm) |       |       | NI03021/WG (RO) | NI03031/WG (RO) | NI03041/WG (RO) | NI04032/WG (RO) | NI03042/WG (RO) | NI04042/WG (RO) | NI05042/WG (RO) | NI05052/WG (RO) | NI06062/WG (RO) | NI08062/WG (RO) | NI10062/WG (RO) | NI04043/WG (RO) | NI04063/WG (RO) | NI06063/WG (RO) | NI08063/WG (RO) | NI10063/WG (RO) | NI08083/WG (RO) | NI10083/WG (RO) | NI12083/WG (RO) |
|--|---------------------|-------------|-----------------|-------|-------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|  |                     |             | Height          | Width | Depth |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Rainhoods  | Zinc coated steel   | NIRH021     | 30              | 175.6 | 65    | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIRH031▲    | 30              | 275.6 | 65    | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIRH032▲    | 30              | 275.6 | 105   |                 |                 | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIRH041▲    | 30              | 375.6 | 65    |                 | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIRH042     | 30              | 375.6 | 105   |                 |                 |                 | •               | •               | •               | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIRH043     | 30              | 375.6 | 220   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               | •               |                 |                 |                 |                 |                 |                 |
|  |                     | NIRH052▲    | 30              | 475.6 | 105   |                 |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIRH062▲    | 30              | 575.6 | 105   |                 |                 |                 |                 |                 |                 |                 |                 | •               | •               | •               | •               |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIRH063     | 30              | 575.6 | 220   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               | •               | •               | •               |                 |                 |
|  |                     | NIRH082▲    | 30              | 775.6 | 105   |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| NIRH083▲   | 30                  | 775.6       | 220             |       |       |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               | •               | •               |                 |
| External vent kits –<br>Zinc coated steel        | Pebble Grey RAL7032 | IPVK        | 130             | 130   | –     | ▲               | ▲               | ▲               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               |
|  |                     | IPVK16      | 260             | 260   | –     | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | •               | •               | •               | •               | •               | •               | •               | •               |
|  | X15 Orange          | IPVK/RO     | 130             | 130   | –     | ▲               | ▲               | ▲               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               |
|  |                     | IPVK16/RO▲  | 260             | 260   | –     | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | ▲               | •               | •               | •               | •               | •               | •               | •               | •               |
| Wall mounting bracket s –<br>316 stainless steel | Set of 4            | MEB/S       | –               | –     | –     | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               |                 |
| Mounting flange kit –<br>316 stainless steel     |                     | MF2/S▲      | 75              | 200   | –     | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | MF3/S       | 75              | 300   | –     |                 | •               | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | MF4/S       | 75              | 400   | –     |                 |                 | •               | •               | •               | •               | •               |                 |                 |                 |                 | •               | •               |                 |                 |                 |                 |                 |                 |
|  |                     | MF5/S▲      | 75              | 500   | –     |                 |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | MF6/S▲      | 75              | 600   | –     |                 |                 |                 |                 |                 |                 |                 |                 | •               | •               | •               | •               |                 | •               | •               | •               | •               |                 |                 |
|  |                     | MF8/S▲      | 75              | 800   | –     |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               | •               |
| Mounting Pan -                                   |                     | NIMP0302    | 250             | 150   | –     | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIMP0303    | 250             | 250   | –     |                 | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIMP0403    | 350             | 250   | –     |                 |                 | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIMP0304    | 250             | 350   | –     |                 |                 | •               | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIMP0404    | 350             | 350   | –     |                 |                 |                 |                 | •               |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIMP0504    | 450             | 350   | –     |                 |                 |                 |                 |                 | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIMP0604    | 550             | 350   | –     |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 |                 | •               |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIMP0505    | 450             | 450   | –     |                 |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|  |                     | NIMP0406    | 350             | 550   | –     |                 |                 |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 | •               |                 |                 |                 |                 |                 |                 |
|  |                     | NIMP0606    | 550             | 550   | –     |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 | •               |                 |                 |                 |                 |                 |
|  |                     | NIMP0806    | 750             | 550   | –     |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 | •               |                 |                 |                 |                 |
|  |                     | NIMP1006    | 950             | 550   | –     |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 | •               |                 |                 |                 |
|  | NIMP0808            | 750         | 750             | –     |       |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               |                 |                 |                 |
|  | NIMP1008            | 950         | 750             | –     |       |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               |                 |                 |
|  | NIMP1208            | 1150        | 750             | –     |       |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | •               |                 |
| Gland plates                                     | 6mm aluminium       | SRAGP6/2    | 290             | 160   | –     |                 |                 |                 | •               | •               | •               | •               | •               |                 |                 |                 | •               | •               |                 |                 |                 |                 |                 |                 |
|  |                     | SRAGP6/3    | 480             | 160   | –     |                 |                 |                 |                 |                 |                 |                 |                 | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               |
|  | 3mm brass           | SRBGP3/2    | 290             | 160   | –     |                 |                 |                 | •               | •               | •               | •               | •               |                 |                 |                 | •               | •               |                 |                 |                 |                 |                 |                 |
|  |                     | SRBGP3/3    | 480             | 160   | –     |                 |                 |                 |                 |                 |                 |                 |                 | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               |
|  | 6mm brass           | SRBGP6/2    | 290             | 160   | –     |                 |                 |                 | •               | •               | •               | •               | •               |                 |                 |                 | •               | •               |                 |                 |                 |                 |                 |                 |
|  |                     | SRBGP6/3    | 480             | 160   | –     |                 |                 |                 |                 |                 |                 |                 |                 | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               |
| Replacement Hinge                                | Kit                 | NI/H        | –               | –     | –     | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               |                 |
| Touch Up Paint (300g)                            | Pebble Grey RAL7032 | TUP/P20     | –               | –     | –     | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               |                 |
|  | X15 Orange          | TUP/P24     | –               | –     | –     | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               | •               |                 |

▲ Fits door only

▲ Available on request

# Universal NI – 316 Stainless Steel

## General Purpose Enclosures



- Built for industrial and demanding environments.
- Threaded sockets on the rear of the enclosure to allow mounting feet attached without compromising the IP rating.
- 120° door opening for ease of access to internal systems.
- Conformity, Approvals:
  - CE Mark
  - Lloyds Register #06/10007 (E2)
- Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
- Manufactured from 1.2/1.5mm thick 316 stainless steel.
- N4 surface finish or Powdercoated X15 Orange.

Comes standard with:

- 2mm steel mounting pan powdercoated white
- Stainless steel lock with 7mm square stainless steel insert (NI020/S)
- Door rails
- Earth strap kit



## ORDERING GUIDE

| Part Number |               | Dimensions (mm) |              |              |                      |               |              | No. of<br>Fixing Points<br>(Suits M8 fixings) | Material<br>Thickness<br>(mm) | Weight (kg) | No. of Locks |
|-------------|---------------|-----------------|--------------|--------------|----------------------|---------------|--------------|---|-------------------------------|-------------|--------------|
|             |               | External        |              | Internal     |                      | Mounting Pan  |              |   |                               |             |              |
|             |               | Height<br>(A)   | Width<br>(B) | Depth<br>(C) | Usable Depth<br>(D)* | Height<br>(E) | Width<br>(F) |   |                               |             |              |
| 316 SS (N4) | X15 Orange    |                 |              |              |                      |               |              |   |                               |             |              |
| NI03021/S   | NI03021/SRO   | 300             | 200          | 150          | 125                  | 250           | 150          | 4   | 1.2                           | 3.9         | 1            |
| NI03031/S   | NI03031/SRO   | 300             | 300          | 150          | 125                  | 250           | 250          | 4   | 1.2                           | 5.3         | 1            |
| NI03041/S   | NI03041/SRO^  | 300             | 400          | 150          | 125                  | 250           | 350          | 4   | 1.2                           | 6.8         | 1            |
| NI04031/S   | NI04031/SRO^  | 400             | 300          | 150          | 125                  | 350           | 250          | 4   | 1.2                           | 6.7         | 1            |
| NI04032/S■  | NI04032/SRO■  | 400             | 300          | 200          | 175                  | 350           | 250          | 4   | 1.2                           | 9.0         | 1            |
| NI03042/S   | NI03042/SRO^  | 300             | 400          | 200          | 175                  | 250           | 350          | 4   | 1.5                           | 9.0         | 1            |
| NI04042/S■  | NI04042/SRO■  | 400             | 400          | 200          | 175                  | 350           | 350          | 4   | 1.5                           | 11.0        | 1            |
| NI05042/S■  | NI05042/SRO■^ | 500             | 400          | 200          | 175                  | 450           | 350          | 4   | 1.5                           | 14.0        | 1            |
| NI06042/S■  | NI06042/SRO■  | 600             | 400          | 200          | 175                  | 550           | 350          | 4   | 1.5                           | 16.0        | 2            |
| NI05052/S■  | NI05052/SRO■  | 500             | 500          | 200          | 175                  | 450           | 450          | 4   | 1.5                           | 16.0        | 1            |
| NI04062/S■  | NI04062/SRO■^ | 400             | 600          | 200          | 175                  | 350           | 550          | 4   | 1.5                           | 16.0        | 1            |
| NI06062/S■  | NI06062/SRO■  | 600             | 600          | 200          | 175                  | 550           | 550          | 4   | 1.5                           | 22.0        | 2            |
| NI08062/S■  | NI08062/SRO■^ | 800             | 600          | 200          | 175                  | 750           | 550          | 6   | 1.5                           | 29.0        | 2            |
| NI10062/S■  | NI10062/SRO■^ | 1000            | 600          | 200          | 175                  | 950           | 550          | 6   | 1.5                           | 28.0        | 2            |
| NI10082/S■  | NI10082/SRO■^ | 1000            | 800          | 200          | 175                  | 950           | 750          | 4   | 1.5                           | 45.0        | 2            |
| NI04043/S■  | NI04043/SRO■^ | 400             | 400          | 300          | 275                  | 350           | 350          | 4   | 1.5                           | 19.0        | 1            |
| NI06043/S■  | NI06043/SRO■^ | 600             | 400          | 300          | 275                  | 550           | 350          | 4   | 1.5                           | 19.0        | 2            |
| NI04063/S■  | NI04063/SRO■^ | 400             | 600          | 300          | 275                  | 350           | 550          | 4   | 1.5                           | 19.0        | 1            |
| NI06063/S■  | NI06063/SRO■  | 600             | 600          | 300          | 275                  | 550           | 550          | 4   | 1.5                           | 25.0        | 2            |
| NI08063/S■  | NI08063/SRO■^ | 800             | 600          | 300          | 275                  | 750           | 550          | 6   | 1.5                           | 32.0        | 2            |
| NI10063/S■  | NI10063/SRO■^ | 1000            | 600          | 300          | 275                  | 950           | 550          | 6   | 1.5                           | 39.0        | 2            |
| NI08083/S^  | NI08083/SRO^^ | 800             | 800          | 300          | 275                  | 750           | 750          | 6   | 1.5                           | 41.0        | 2            |
| NI10083/S^  | NI10083/SRO^^ | 1000            | 800          | 300          | 275                  | 950           | 750          | 6   | 1.5                           | 49.0        | 2            |
| NI12083/S^  | NI12083/SRO^^ | 1200            | 800          | 300          | 275                  | 1150          | 750          | 8   | 1.5                           | 58.0        | 2            |

\* Mounting pan to inside of door

■ Includes vertical door rails

^ Includes horizontal and vertical door rails

▲ Available on request

# Universal NI – 316 Stainless Steel

## General Purpose Enclosures

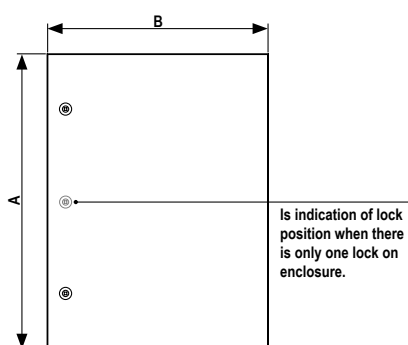


### ACCESSORIES

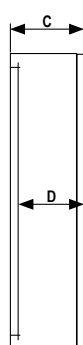
| Product                                      | Description         | Part Number       | Dimensions (mm) |       |       | NI03021/S (/SRO) | NI03031/S (/SRO) | NI03041/S (/SRO) | NI04031/S (/SRO) | NI04032/S (/SRO) | NI03042/S (/SRO) | NI04042/S (/SRO) | NI06042/S (/SRO) | NI05052/S (/SRO) | NI04062/S (/SRO) | NI06062/S (/SRO) | NI08062/S (/SRO) | NI10062/S (/SRO) | NI10082/S (/SRO) | NI04043/S (/SRO) | NI06043/S (/SRO) | NI04063/S (/SRO) | NI06063/S (/SRO) | NI08063/S (/SRO) | NI10063/S (/SRO) | NI08083/S (/SRO) | NI10083/S (/SRO) | NI12083/S (/SRO) |   |
|--|---------------------|-------------------|-----------------|-------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|
|  |                     |                   | Height          | Width | Depth |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
| Rainhoods                                    | 316 stainless steel | NIRH021/S (SRO)▲  | 30              | 175.6 | 65    | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIRH031/S (SRO)▲  | 30              | 275.6 | 65    |                  | •                |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIRH032/S (SRO)▲  | 30              | 275.6 | 105   |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIRH041/S▲ (SRO)▲ | 30              | 375.6 | 65    |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIRH042/S (SRO)▲  | 30              | 375.6 | 105   |                  |                  |                  |                  |                  | •                | •                | •                | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIRH043/S (SRO)▲  | 30              | 375.6 | 220   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                | •                |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIRH052/S (SRO)▲  | 30              | 475.6 | 105   |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIRH062/S (SRO)▲  | 30              | 575.6 | 105   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                | •                | •                | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIRH063/S (SRO)▲  | 30              | 575.6 | 220   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                | •                | •                | •                |                  |                  |   |
|  |                     | NIRH082/S▲ (SRO)▲ | 30              | 775.6 | 105   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |   |
| NIRH083/S (SRO)▲                             | 30                  | 775.6             | 220             |       |       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                | •                | •                |                  |   |
| External vent kits                           | 316 stainless steel | IPVK/S            | 130             | 130   | —     | ▲                | ▲                | ▲                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                |   |
|  |                     | IPVK/SRO▲         | 130             | 130   | —     | ▲                | ▲                | ▲                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                |   |
|  |                     | IPVK16/S▲         | 260             | 260   | —     | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | •                | •                | •                | •                | •                | •                | •                | • |
|  |                     | IPVK16/SRO▲       | 260             | 260   | —     | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | ▲                | •                | •                | •                | •                | •                | •                | •                | • |
| Wall mounting brackets – 316 stainless steel | Set of 4            | MEB/S             | —               | —     | —     | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                |                  |   |
| Mounting flange kits                         | 316 stainless steel | MF2/S▲            | 75              | 200   | —     | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | MF3/S             | 75              | 300   | —     |                  | •                |                  | •                | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | MF4/S             | 75              | 400   | —     |                  |                  | •                |                  |                  | •                | •                | •                | •                |                  |                  |                  |                  |                  |                  | •                | •                |                  |                  |                  |                  |                  |                  |   |
|  |                     | MF5/S▲            | 75              | 500   | —     |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | MF6/S▲            | 75              | 600   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                | •                | •                | •                |                  |                  |                  |                  | •                | •                | •                | •                |                  |                  |   |
|  |                     | MF8/S▲            | 75              | 800   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  | •                | •                | •                |   |
| Mounting Pan -                               |                     | NIMP0302          | 250             | 150   | —     | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIMP0303          | 250             | 250   | —     |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIMP0403          | 350             | 250   | —     |                  |                  |                  | •                | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIMP0304          | 250             | 350   | —     |                  |                  | •                |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIMP0404          | 350             | 350   | —     |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIMP0504          | 450             | 350   | —     |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIMP0604          | 550             | 350   | —     |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |   |
|  |                     | NIMP0505          | 450             | 450   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |
|  |                     | NIMP0406          | 350             | 550   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |   |
|  |                     | NIMP0606          | 550             | 550   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |   |
|  |                     | NIMP0806          | 750             | 550   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |   |
|  |                     | NIMP1006          | 950             | 550   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  | •                |                  |                  |                  |   |
|  |                     | NIMP0808          | 750             | 750   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |   |
|  |                     | NIMP1008          | 950             | 750   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  | •                |                  |   |
|  |                     | NIMP1208          | 1150            | 750   | —     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | •                |                  |                  |                  |                  |                  |                  | •                |   |
| Replacement Hinge                            | Kit                 | NI/H              | —               | —     | —     | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                | •                |                  |   |

▲ Fits door only  
▲ Available on request

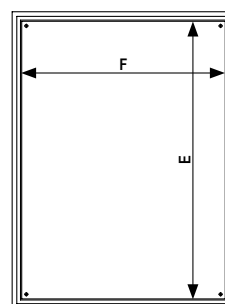
### TECHNICAL DRAWINGS



Front View



Side View



Front View  
(Door Removed)

# Universal NI Viewing Window – 316 Stainless Steel

## General Purpose Enclosures



- Built for industrial and demanding environments.
- Threaded sockets on the rear of the enclosure to allow mounting feet attached without compromising the IP rating.
- 120° door opening for ease of access to internal systems.
- Conformity, Approvals:
  - CE Mark
  - Lloyds Register #06/10007 (E2)
- Region D wind rated to AS1170.2-2002: Structural design actions - Wind actions
- Manufactured from 1.5mm thick 316 stainless steel.
- N4 surface finish or powdercoated X15 orange.

Comes standard with:

- 2mm steel mounting pan powdercoated white
- Stainless steel lock with 7mm square stainless steel insert (NI020/S)
- Door rails
- Earth strap kit
- Glass Viewing Window - 5.4mm thickness



## ORDERING GUIDE

### Dimensions (mm)

| Part Number    |                  | External   |           |           | Internal          | Mounting Pan |           | Viewing Window |       |
|----------------|------------------|------------|-----------|-----------|-------------------|--------------|-----------|----------------|-------|
| Standard       | X15 Orange       | Height (A) | Width (B) | Depth (C) | Usable Depth (D)* | Height (E)   | Width (F) | Height         | Width |
| NI04042/S/WG■▲ | NI04042/SRO/WG■▲ | 400        | 400       | 200       | 175               | 350          | 350       | 185            | 185   |
| NI05042/S/WG■▲ | NI05042/SRO/WG■▲ | 500        | 400       | 200       | 175               | 450          | 350       | 278            | 185   |
| NI06042/S/WG■▲ | NI06042/SRO/WG■▲ | 600        | 400       | 200       | 175               | 550          | 350       | 378            | 185   |
| NI05052/S/WG■▲ | NI05052/SRO/WG■▲ | 500        | 500       | 200       | 175               | 450          | 450       | 278            | 273   |
| NI04062/S/WG■▲ | NI04062/SRO/WG■▲ | 400        | 600       | 200       | 175               | 350          | 550       | 185            | 373   |
| NI06062/S/WG■▲ | NI06062/SRO/WG■▲ | 600        | 600       | 200       | 175               | 550          | 550       | 378            | 373   |
| NI08062/S/WG■▲ | NI08062/SRO/WG■▲ | 800        | 600       | 200       | 175               | 750          | 550       | 578            | 373   |
| NI10062/S/WG■▲ | NI10062/SRO/WG■▲ | 1000       | 600       | 200       | 175               | 950          | 550       | 778            | 373   |
| NI10082/S/WG■▲ | NI10082/SRO/WG■▲ | 1000       | 800       | 200       | 175               | 950          | 750       | 778            | 573   |
| NI04043/S/WG■▲ | NI04043/SRO/WG■▲ | 400        | 400       | 300       | 275               | 350          | 350       | 185            | 185   |
| NI06043/S/WG■▲ | NI06043/SRO/WG■▲ | 600        | 400       | 300       | 275               | 550          | 350       | 378            | 185   |
| NI04063/S/WG■▲ | NI04063/SRO/WG■▲ | 400        | 600       | 300       | 275               | 350          | 550       | 185            | 373   |
| NI06063/S/WG■▲ | NI06063/SRO/WG■▲ | 600        | 600       | 300       | 275               | 550          | 550       | 378            | 373   |
| NI08063/S/WG■▲ | NI08063/SRO/WG■▲ | 800        | 600       | 300       | 275               | 750          | 550       | 578            | 373   |
| NI10063/S/WG■▲ | NI10063/SRO/WG■▲ | 1000       | 600       | 300       | 275               | 950          | 550       | 778            | 373   |
| NI08083/S/WG^▲ | NI08083/SRO/WG^▲ | 800        | 800       | 300       | 275               | 750          | 750       | 578            | 573   |
| NI10083/S/WG^▲ | NI10083/SRO/WG^▲ | 1000       | 800       | 300       | 275               | 950          | 750       | 778            | 573   |
| NI12083/S/WG^▲ | NI12083/SRO/WG^▲ | 1200       | 800       | 300       | 275               | 1150         | 750       | 978            | 573   |

\* Mounting pan to inside of door

■ Includes vertical door rails

^ Includes horizontal and vertical door rails

▲ Available on request

Images show the window shape on the smallest size enclosures. Window corner radius is 100mm on all sizes of enclosures.





# Universal NI Viewing Window – 316 Stainless Steel

## General Purpose Enclosures



### ACCESSORIES

|   |                     |                   | Dimensions (mm) |       |       |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|---|---------------------|-------------------|-----------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---|---|
| Product   | Description         | Part Number       | Height          | Width | Depth | N103021/SWG (SRO) | N103031/SWG (SRO) | N103041/SWG (SRO) | N104031/SWG (SRO) | N104032/SWG (SRO) | N103042/SWG (SRO) | N104042/SWG (SRO) | N105042/SWG (SRO) | N106042/SWG (SRO) | N105052/SWG (SRO) | N104062/SWG (SRO) | N106062/SWG (SRO) | N110062/SWG (SRO) | N110082/SWG (SRO) | N104043/SWG (SRO) | N106043/SWG (SRO) | N104063/SWG (SRO) | N106063/SWG (SRO) | N110063/SWG (SRO) | N108063/SWG (SRO) | N110083/SWG (SRO) | N112083/SWG (SRO) |   |   |
| Rainhoods   | 316 stainless steel | NIRH021/S (SRO)▲  | 30              | 175.6 | 65    | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIRH031/S (SRO)▲  | 30              | 275.6 | 65    |                   | •                 |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIRH032/S (SRO)▲  | 30              | 275.6 | 105   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIRH041/S▲ (SRO)▲ | 30              | 375.6 | 65    |                   |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIRH042/S (SRO)▲  | 30              | 375.6 | 105   |                   |                   |                   |                   |                   | •                 | •                 | •                 | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIRH043/S (SRO)▲  | 30              | 375.6 | 220   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 | •                 |                   |                   |                   |                   |                   |   |   |
|   |                     | NIRH052/S (SRO)▲  | 30              | 475.6 | 105   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIRH062/S (SRO)▲  | 30              | 575.6 | 105   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 | •                 | •                 | •                 |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIRH063/S (SRO)▲  | 30              | 575.6 | 220   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 | •                 | •                 | •                 |                   |   |   |
|   |                     | NIRH082/S▲ (SRO)▲ | 30              | 775.6 | 105   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   |   |   |
| NIRH083/S (SRO)▲                                      | 30                  | 775.6             | 220             |       |       |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 | •                 | •                 |   |   |
| External vent kits                                    | 316 stainless steel | IPVK/S            | 130             | 130   | –     | ▲                 | ▲                 | ▲                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | • |   |
|   |                     | IPVK/SRO▲         | 130             | 130   | –     | ▲                 | ▲                 | ▲                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | • |   |
|   |                     | IPVK16/S▲         | 260             | 260   | –     | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | • | • |
|   |                     | IPVK16/SRO▲       | 260             | 260   | –     | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | ▲                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | • | • |
| Wall mounting brackets – Set of 4 316 stainless steel |                     | MEB/S             | –               | –     | –     | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 |   |   |
| Mounting flange kits                                  | 316 stainless steel | MF2/S▲            | 75              | 200   | –     | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | MF3/S             | 75              | 300   | –     |                   | •                 |                   | •                 | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | MF4/S             | 75              | 400   | –     |                   |                   | •                 |                   |                   | •                 | •                 | •                 | •                 |                   |                   |                   |                   |                   |                   | •                 | •                 |                   |                   |                   |                   |                   |   |   |
|   |                     | MF5/S▲            | 75              | 500   | –     |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | MF6/S▲            | 75              | 600   | –     |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 | •                 | •                 | •                 |                   |                   |                   | •                 | •                 | •                 | •                 |                   |   |   |
|   |                     | MF8/S▲            | 75              | 800   | –     |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   | •                 | •                 | • |   |
| Mounting Pan  |                     | NIMP0302          | 250             | 150   | –     | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIMP0303          | 250             | 250   | –     |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIMP0403          | 350             | 250   | –     |                   |                   |                   | •                 | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIMP0304          | 250             | 350   | –     |                   |                   | •                 |                   |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIMP0404          | 350             | 350   | –     |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIMP0504          | 450             | 350   | –     |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIMP0604          | 550             | 350   | –     |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |   |   |
|   |                     | NIMP0505          | 450             | 450   | –     |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |   |   |
|   |                     | NIMP0406          | 350             | 550   | –     |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |   |   |
|   |                     | NIMP0606          | 550             | 550   | –     |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |   |   |
|   |                     | NIMP0806          | 750             | 550   | –     |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   | •                 |                   |                   |   |   |
|   |                     | NIMP1006          | 950             | 550   | –     |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   | •                 |                   |   |   |
|   |                     | NIMP0808          | 750             | 750   | –     |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |   |   |
|   |                     | NIMP1008          | 950             | 750   | –     |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |                   |                   |                   |                   | •                 |   |   |
| NIMP1208  | 1150                | 750               | –               |       |       |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   |                   | •                 |                   |                   |   |   |
| Replacement Hinge                                     | Kit                 | NI/H              | –               | –     | –     | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 | •                 |   |   |

▲ Fits door only  
▲ Available on request

# Universal DD – Zinc Coated Steel

## Double Door Enclosures



- Suitable for industrial or demanding conditions.
- No centre mullion — extremely easy to access all equipment mounted on the included mounting pan.
- 180° opening doors.
- Conformity, Approvals:  
Lloyds Register #06/10007 (E2)
- Manufactured from 1.6mm thick zinc coated steel.
- Powdercoated Pebble Grey RAL7032.

Comes standard with:

- 2mm steel mounting pan powdercoated white
- Gland plates fitted internally or externally – dual on 1200mm wide
- Door rails
- Chromed steel lock with 7mm square steel insert (DD020) on units below 1600mm high
- Lockable L handle keyed to 92268 (DD050) on units 1600mm and above
- Earth strap kit



### ORDERING GUIDE

| Part Number | Dimensions (mm) |           |           |                   |              |           |            |           | No. of Gland Plates | Weight (kg) |
|-------------|-----------------|-----------|-----------|-------------------|--------------|-----------|------------|-----------|---------------------|-------------|
|             | External        |           |           | Internal          | Mounting Pan |           | Opening    |           |                     |             |
|             | Height (A)      | Width (B) | Depth (C) | Usable Depth* (D) | Height (E)   | Width (F) | Height (G) | Width (H) |                     |             |
| DD10103▲    | 1000            | 1000      | 300       | 250               | 940          | 915       | 940        | 920       | 1                   | 67.0        |
| DD12103     | 1200            | 1000      | 300       | 250               | 1140         | 915       | 1140       | 920       | 1                   | 78.0        |
| DD16104▲    | 1600            | 1000      | 400       | 350               | 1540         | 915       | 1540       | 920       | 1                   | 108.0       |
| DD18104     | 1800            | 1000      | 400       | 350               | 1740         | 915       | 1740       | 920       | 1                   | 119.0       |
| DD20104▲    | 2000            | 1000      | 400       | 350               | 1940         | 915       | 1940       | 920       | 1                   | 131.0       |
| DD12124     | 1200            | 1200      | 400       | 350               | 1140         | 1115      | 1140       | 1120      | 2                   | 98.0        |
| DD16124     | 1600            | 1200      | 400       | 350               | 1540         | 1115      | 1540       | 1120      | 2                   | 125.0       |
| DD18124     | 1800            | 1200      | 400       | 350               | 1740         | 1115      | 1740       | 1120      | 2                   | 138.0       |
| DD20124     | 2000            | 1200      | 400       | 350               | 1940         | 1115      | 1940       | 1120      | 2                   | 152.0       |
| DD18125▲    | 1800            | 1200      | 500       | 450               | 1740         | 1115      | 1740       | 1120      | 2                   | 147.0       |
| DD20125     | 2000            | 1200      | 500       | 450               | 1940         | 1115      | 1940       | 1120      | 2                   | 161.0       |

\* Mounting pan to inside of door

<sup>▲</sup> Available on request



See **Pages 50-51** for more information about B&R's range of lighting solutions or contact your local sales representative to discuss your requirements.

# Universal DD – Zinc Coated Steel

## Double Door Enclosures

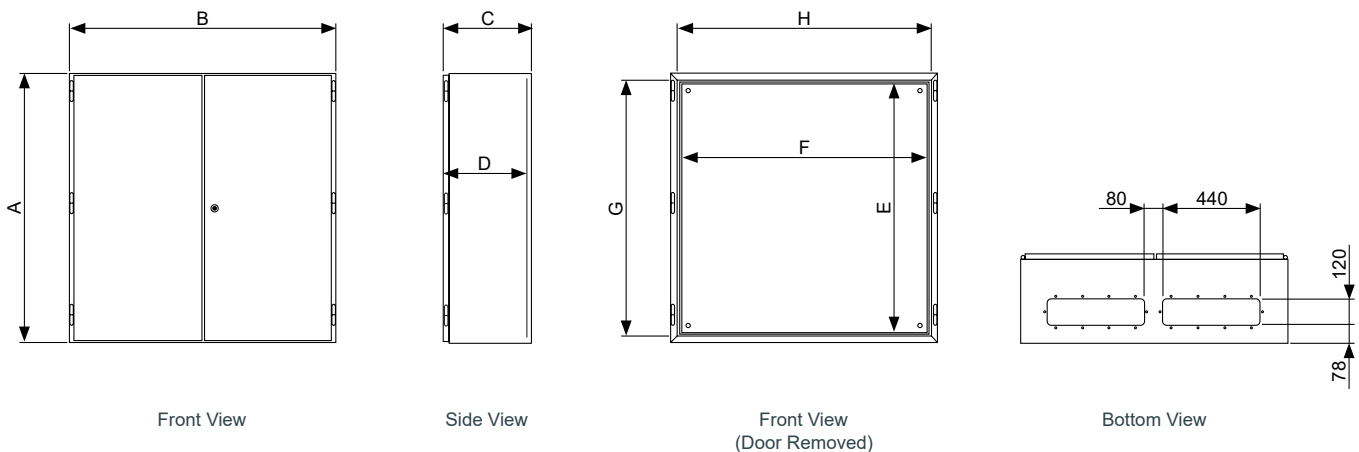


### ACCESSORIES

| Product   | Description           | Part Number             | Dimensions (mm) |       |       | DD10103 | DD12103 | DD16104 | DD18104 | DD20104 | DD12124 | DD16124 | DD18124 | DD20124 | DD18125 | DD20125 |
|---|-----------------------|-------------------------|-----------------|-------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|   |                       |                         | Height          | Width | Depth |         |         |         |         |         |         |         |         |         |         |         |
| Rainhoods   | Zinc coated steel     | DDRH103 <sup>▲</sup>    | 30              | –     | –     | •       | •       |         |         |         |         |         |         |         |         |         |
|   |                       | DDRH104 <sup>▲</sup>    | 30              | –     | –     |         |         | •       | •       | •       |         |         |         |         |         |         |
|   |                       | DDRH124 <sup>▲</sup>    | 30              | –     | –     |         |         |         |         |         | •       | •       | •       | •       |         |         |
|   |                       | DDRH125 <sup>▲</sup>    | 30              | –     | –     |         |         |         |         |         |         |         |         |         | •       | •       |
| Channel iron plinths  | Galvanised steel      | DDCIP103 <sup>▲</sup>   | 75              | 1000  | 255   | •       | •       |         |         |         |         |         |         |         |         |         |
|   |                       | DDCIP104 <sup>▲</sup>   | 75              | 1000  | 355   |         |         | •       | •       | •       |         |         |         |         |         |         |
|   |                       | DDCIP124                | 75              | 1200  | 355   |         |         |         |         |         | •       | •       | •       | •       |         |         |
|   |                       | DDCIP125 <sup>▲</sup>   | 75              | 1200  | 455   |         |         |         |         |         |         |         |         |         | •       | •       |
| Plinth mounting bases                                       | Galvanised steel      | DDPB011003 <sup>▲</sup> | 100             | 1000  | 255   | •       | •       |         |         |         |         |         |         |         |         |         |
|   |                       | DDPB011004              | 100             | 1000  | 355   |         |         | •       | •       | •       |         |         |         |         |         |         |
|   |                       | DDPB011204 <sup>▲</sup> | 100             | 1200  | 355   |         |         |         |         |         | •       | •       | •       | •       |         |         |
|   |                       | DDPB011205 <sup>▲</sup> | 100             | 1200  | 455   |         |         |         |         |         |         |         |         |         | •       | •       |
| Neoprene gasket   | 3mm x 20mm, 4m long   | IPPC/G                  | –               | –     | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |
| External vent kit (Pebble Grey RAL7032)                     | Zinc coated steel     | IPVK                    | 130             | 130   | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |
|   |                       | IPVK16                  | 260             | 260   | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |
| Gland plate – split   | 2mm zinc coated steel | DDSGP <sup>▲</sup>      | 490             | 112   | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |
| Eye bolt  | 125kg per bolt (2)    | LEB/12                  | –               | –     | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |
| LED light kit (500mm wide) – includes power supply & switch | 12V                   | BRLED500                | –               | 500   | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |
|   | 24V                   | BRLED500/24             | –               | 500   | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |
| Light kit bracket   | To suit LED light kit | DDLKB10 <sup>▲</sup>    | –               | 1000  | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |
|   |                       | DDLKB12 <sup>▲</sup>    | –               | 1000  | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |
| Fluoro light kit (240V)                                     | 1000mm wide           | DDLTK10 <sup>▲</sup>    | –               | –     | –     | •       | •       | •       | •       | •       |         |         |         |         |         |         |
|   | 1200mm wide           | DDLTK12 <sup>▲</sup>    | –               | –     | –     |         |         |         |         |         | •       | •       | •       | •       | •       | •       |
| Touch up paint (300g)                                       | Pebble Grey RAL7032   | TUP/P20                 | –               | –     | –     | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       | •       |

▲ Available on request

### TECHNICAL DRAWING



# Universal DD – 316 Stainless Steel

## Double Door Enclosures



- Suitable for industrial or demanding conditions.
- No centre mullion — extremely easy to access all equipment mounted on the included mounting pan.
- 180° opening doors.
- Conformity, Approvals:  
Lloyds Register #06/10007 (E2)
- Manufactured from 1.5mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- 2mm steel mounting pan powdercoated white
- Gland plates fitted internally or externally – dual on 1200mm wide
- Door rails
- Stainless steel lock with 7mm square stainless steel insert (DD020/S) on units below 1600mm high
- Lockable L handle keyed to 92268 (DD050) on units 1600mm and above
- Earth strap kit



### ORDERING GUIDE

| Part Number | Dimensions (mm) |           |           |                   |              |           |            |           | No. of Gland Plates | Weight (kg) |
|-------------|-----------------|-----------|-----------|-------------------|--------------|-----------|------------|-----------|---------------------|-------------|
|             | External        |           |           | Internal          | Mounting Pan |           | Opening    |           |                     |             |
|             | Height (A)      | Width (B) | Depth (C) | Usable Depth* (D) | Height (E)   | Width (F) | Height (G) | Width (H) |                     |             |
| DD10103/S^  | 1000            | 1000      | 300       | 250               | 940          | 915       | 940        | 920       | 1                   | 64.0        |
| DD12103/S^  | 1200            | 1000      | 300       | 250               | 1140         | 915       | 1140       | 920       | 1                   | 74.0        |
| DD16104/S^  | 1600            | 1000      | 400       | 350               | 1540         | 915       | 1540       | 920       | 1                   | 103.0       |
| DD18104/S^  | 1800            | 1000      | 400       | 350               | 1740         | 915       | 1740       | 920       | 1                   | 114.0       |
| DD20104/S^  | 2000            | 1000      | 400       | 350               | 1940         | 915       | 1940       | 920       | 1                   | 125.0       |
| DD12124/S^  | 1200            | 1200      | 400       | 350               | 1140         | 1115      | 1140       | 1120      | 2                   | 93.0        |
| DD16124/S   | 1600            | 1200      | 400       | 350               | 1540         | 1115      | 1540       | 1120      | 2                   | 119.0       |
| DD18124/S   | 1800            | 1200      | 400       | 350               | 1740         | 1115      | 1740       | 1120      | 2                   | 132.0       |
| DD20124/S^  | 2000            | 1200      | 400       | 350               | 1940         | 1115      | 1940       | 1120      | 2                   | 145.0       |
| DD18125/S   | 1800            | 1200      | 500       | 450               | 1740         | 1115      | 1740       | 1120      | 2                   | 140.0       |
| DD20125/S^  | 2000            | 1200      | 500       | 450               | 1940         | 1115      | 1940       | 1120      | 2                   | 154.0       |

\* Mounting pan to inside of door

▲ Available on request



See **Pages 50-51** for more information about B&R's range of lighting solutions or contact your local sales representative to discuss your requirements.

# Universal DD – 316 Stainless Steel

## Double Door Enclosures

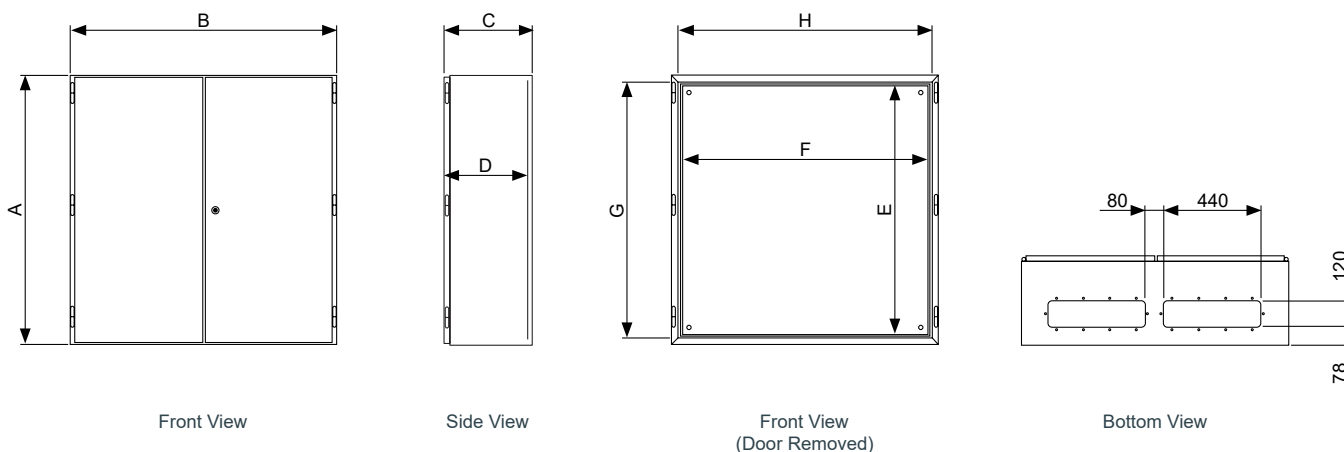


### ACCESSORIES

| Product   | Description           | Part Number             | Dimensions (mm) |       |       | DD10103/S | DD12103/S | DD16104/S | DD18104/S | DD20104/S | DD12124/S | DD16124/S | DD18124/S | DD20124/S | DD18125/S | DD20125/S |
|---|-----------------------|-------------------------|-----------------|-------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|   |                       |                         | Height          | Width | Depth |           |           |           |           |           |           |           |           |           |           |           |
| Rainhoods   | 316 stainless steel   | DDRH103/S <sup>▲</sup>  | 30              | –     | –     | •         | •         |           |           |           |           |           |           |           |           |           |
|   |                       | DDRH104/S <sup>▲</sup>  | 30              | –     | –     |           |           | •         | •         | •         |           |           |           |           |           |           |
|   |                       | DDRH124/S <sup>▲</sup>  | 30              | –     | –     |           |           |           |           |           | •         | •         | •         | •         |           |           |
|   |                       | DDRH125/S <sup>▲</sup>  | 30              | –     | –     |           |           |           |           |           |           |           |           |           | •         | •         |
| Channel iron plinths  | Galvanised steel      | DDCIP103 <sup>▲</sup>   | 75              | 1000  | 255   | •         | •         |           |           |           |           |           |           |           |           |           |
|   |                       | DDCIP104 <sup>▲</sup>   | 75              | 1000  | 355   |           |           | •         | •         | •         |           |           |           |           |           |           |
|   |                       | DDCIP124                | 75              | 1200  | 355   |           |           |           |           |           | •         | •         | •         | •         |           |           |
|   |                       | DDCIP125 <sup>▲</sup>   | 75              | 1200  | 455   |           |           |           |           |           |           |           |           |           | •         | •         |
| Plinth mounting bases                                       | Galvanised steel      | DDPB011003 <sup>▲</sup> | 100             | 1000  | 255   | •         | •         |           |           |           |           |           |           |           |           |           |
|   |                       | DDPB011004              | 100             | 1000  | 355   |           |           | •         | •         | •         |           |           |           |           |           |           |
|   |                       | DDPB011204 <sup>▲</sup> | 100             | 1200  | 355   |           |           |           |           |           | •         | •         | •         | •         |           |           |
|   |                       | DDPB011205 <sup>▲</sup> | 100             | 1200  | 455   |           |           |           |           |           |           |           |           |           | •         | •         |
| Neoprene gasket   | 3mmx20mm, 4m long     | IPPC/G                  | –               | –     | –     | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| External vent kit   | 316 stainless steel   | IPVK/S                  | 130             | 130   | –     | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|   |                       | IPVK16/S <sup>▲</sup>   | 260             | 260   | –     | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| Gland plate – split   | 2mm zinc coated steel | DDSGP <sup>▲</sup>      | 490             | 112   | –     | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| Eye bolt  | 125kg per bolt (2)    | LEB/12                  | –               | –     | –     | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| LED light kit (500mm wide) – includes power supply & switch | 12V                   | BRLED500                | –               | 500   | –     | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|   | 24V                   | BRLED500/24             | –               | 500   | –     | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| Light kit bracket   | To suit LED light kit | DDLKB10 <sup>▲</sup>    | –               | 1000  | –     | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|   |                       | DDLKB12 <sup>▲</sup>    | –               | 1000  | –     | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
| Fluoro light kit (240V)                                     | 1000mm wide           | DDLTK10 <sup>▲</sup>    | –               | –     | –     | •         | •         | •         | •         | •         |           |           |           |           |           |           |
|   | 1200mm wide           | DDLTK12 <sup>▲</sup>    | –               | –     | –     |           |           |           |           |           | •         | •         | •         | •         | •         | •         |

▲ Available on request

### TECHNICAL DRAWING



# Miner ME

## 1000 Volt Mining and Industrial Enclosures



- Suitable for 1000 volt applications.
- 100 micron UV resistant modified polyester paint finish.
- Suitable for temperatures -10°C to +60°C.
- Specially designed flat faced gutter.
- External pintle hinges for easy door removal.
- Conformity, Approvals:  
Lloyds Register #06/10007 (E2)
- Manufactured from 2mm thick zinc coated steel.
- Powdercoated French Blue or X15 Orange.

Comes standard with:

- Steel mounting pan powdercoated white
- Chromed steel lock with 7mm square steel insert (NI020)
- Earth strap kit



### ORDERING GUIDE

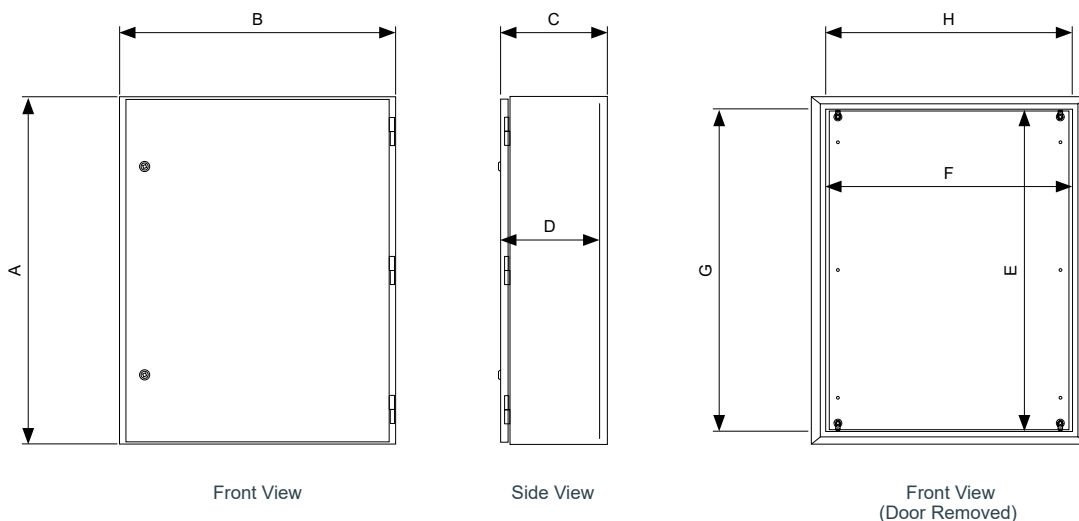
Dimensions (mm)

| Part Number |             | External   |           | Internal  | Mounting Pan      | Opening    |           | No. of Locks | Weight (kg) |            |           |
|-------------|-------------|------------|-----------|-----------|-------------------|------------|-----------|--------------|-------------|------------|-----------|
| French Blue | X15 Orange  | Height (A) | Width (B) | Depth (C) | Usable Depth* (D) | Height (E) | Width (F) |              |             | Height (G) | Width (H) |
| ME06043     | ME06043/RO▲ | 600        | 400       | 310       | 278               | 530        | 300       | 540          | 320         | 1          | 22.0      |
| ME06063     | ME06063/RO  | 600        | 600       | 310       | 278               | 530        | 500       | 540          | 520         | 1          | 30.0      |
| ME08063     | ME08063/RO  | 800        | 600       | 310       | 278               | 730        | 500       | 740          | 520         | 2          | 38.0      |
| ME08083     | ME08083/RO  | 800        | 800       | 310       | 278               | 730        | 700       | 740          | 720         | 2          | 49.0      |
| ME10083     | ME10083/RO▲ | 1000       | 800       | 310       | 278               | 930        | 700       | 940          | 720         | 2          | 59.0      |
| ME12083▲    | ME12083/RO▲ | 1200       | 800       | 310       | 278               | 1130       | 700       | 1140         | 720         | 2          | 69.0      |
| ME10103     | ME10103/RO  | 1000       | 1000      | 310       | 278               | 930        | 900       | 940          | 920         | 2          | 71.0      |

\* Mounting pan to inside of door

<sup>▲</sup> Available on request

### TECHNICAL DRAWINGS



### BHP OLYMPIC DAM

South Australia



#### THE PROJECT

Olympic Dam mine is a large polymetallic mine located in South Australia, approximately 550km Northwest of Adelaide.

Home to a major source of oxide copper gold deposit, Olympic Dam produces combined quantities of Copper, Gold, Uranium and Silver through an underground mining system integrated with a metallurgical processing plant.

The deposit was discovered in 1975 and the mine was opened in 1988 by WMC Resources. BHP gained control of this mine in mid-2005.

#### THE CONTRACTOR

MPS Building & Electrical, a local contractor based in Roxby Downs, provide a wide range of domestic, commercial and industrial mining services to the Roxby Downs community and surrounding areas.

#### THE CHALLENGE

MPS contacted B&R to assist with finding a solution for a fibre enclosure hub which would be used to link a fibre ring underground connecting four mine shafts, with the surface.

B&R's design and engineering team worked closely with MPS Building & Electrical to create an enclosure specific to BHP's requirements. The customised solution was supplied through Auslec Electrical and Data located in Wingfield.

#### THE SOLUTION

B&R designed a double door stainless steel field cabinet which was 1000mm deep and capable of housing electrical and monitoring equipment.

Due to the remote location of the project and the type of equipment installed, sunshades and lockable handles were included to reduce heat within the enclosure and prevent vandalism.

“B&R were able to design and supply an enclosure that was 100% fit-for-purpose, which made for a seamless installation.”



#### THE RESULT

B&R have worked alongside BHP and MPS Building & Electrical on past projects, installing enclosure solutions into a variety of different applications.

B&R's ability to design custom solutions along with their reliable service meant MPS Building & Electrical could confidently deliver this project and supply an enclosure suitable for harsh mining environments.

B&R and MPS look forward to working together again. This enclosure was specifically designed for this project and is being considered as a standard for future installations.



# Locks

## Locks to suit special purpose enclosures

### Standard Locks

These locks are included as standard for each of these enclosures. For a different locking option on one of these enclosures, contact your local sales representative to discuss your requirements.

| Enclosure               | Zinc Coated Steel                                  | Stainless Steel   |
|-------------------------|--|---|
| Universal NI            | NI020 – chromed steel with 7mm square steel insert | NI020/S – stainless steel lock with 7mm square stainless steel insert     |
| Universal DD ≤ 1600mm H | DD020 - chromed steel with 7mm square steel insert | DD020/PS - black powdercoated lock with 7mm square stainless steel insert |
| Universal DD > 1600mm H | DD050 - lockable L handle keyed 92268              | DD050 - lockable L handle keyed 92268                                     |
| Miner ME                | NI020 - chromed steel with 7mm square steel insert | –   |

### Lock Options for Special Purpose Enclosures

There are a number of lock options available that are suitable for use on special purpose enclosures. Contact your local sales representative to discuss your requirements.

| Product      | Description                   | Part Number | Standard Lock/Insert                 | Alternative insert | Keys             |             |
|--------------|-------------------------------|-------------|--------------------------------------|--------------------|------------------|-------------|
|              |                               |             |                                      |                    | Lockable handles | Zinc, 4-way |
| Turnbuckle   | chromed steel                 | NI020       | 7mm square – steel                   | See below          |                  | SKZ         |
|              |                               | DD020       | 7mm square – steel                   |                    |                  | SKZ         |
|              | powdercoated with SS insert   | NI020/PS    | 7mm square – stainless steel         |                    |                  | SKZ         |
|              |                               | DD020/PS    | 7mm square – stainless steel         |                    |                  | SKZ         |
|              | stainless steel               | NI020/S     | 7mm square – stainless steel         |                    |                  | SKZ         |
|              |                               | NI028S/S    | 8mm square slotted – stainless steel | –                  |                  | SKZ         |
| Wing knob    | lockable                      | NI030       | Key code 92268                       | –                  | SK3              |             |
|              |                               | NI030/CL001 | Key code CL001                       | –                  |                  |             |
|              |                               | NI030/L003  | Key code L003                        | –                  |                  |             |
|              | padlockable                   | NI032       | Suit 8mm hasp                        | –                  |                  |             |
|              | padlockable - stainless steel | NI032/S     | Suit 8mm hasp                        | –                  |                  |             |
|              | lockable                      | DD030       | Key code 92268                       | –                  | SK3              |             |
|              |                               | NI111       | –                                    | –                  |                  |             |
| T-handle     | lockable                      | DD111       | –                                    | –                  |                  |             |
|              |                               | NI040       | Key code 92268                       | –                  | SK3              |             |
| L-handle     | lockable                      | DD040       | Key code 92268                       | –                  | SK3              |             |
|              |                               | NI050       | Key code 92268                       | –                  | SK3              |             |
|              | padlockable – steel           | DD050       | Key code 92268                       | –                  | SK3              |             |
|              |                               | NI052       | –                                    | –                  |                  |             |
|              | padlockable – stainless steel | DD052       | –                                    | –                  |                  |             |
|              |                               | NI052/S     | –                                    | –                  |                  |             |
|              |                               | DD052/S     | –                                    | –                  |                  |             |
| Swing handle | padlockable – steel           | SP/LCK      | –                                    | –                  |                  |             |
|              | padlockable – stainless steel | SP/LCK/S    | –                                    | –                  |                  |             |
| LockSock®    | plastic                       | SP/LCK/DC   | To suit SP/LCK                       | –                  |                  |             |
| Dust cap     | plastic                       | NI020/DC    | To suit NI020 lock                   | –                  |                  |             |

# Locks

Locks to suit special purpose enclosures



## Lock Inserts for Locks

The NI020 locks are available with an option lock insert for use on all special purpose enclosures. Contact your local sales engineer to discuss your requirements.

| To suit lock style  | Description                 | To suit lock         | Standard Insert              | 3mm double bit pin |                 | 8mm square |                 | 8mm square slotted | 8mm triangle |                 |
|---------------------|-----------------------------|----------------------|------------------------------|--------------------|-----------------|------------|-----------------|--------------------|--------------|-----------------|
|                     |                             |                      |                              | Steel              | Stainless Steel | Steel      | Stainless Steel | Stainless Steel    | Steel        | Stainless Steel |
|                     |                             |                      |                              |                    |                 |            |                 |                    |              |                 |
| Turnbuckle          | chromed steel               | NI020 or DD020       | 7mm square – steel           | LKINS3P            |                 | LKINS8S    |                 | LKINS8SS/S         | LKINS8T      |                 |
|                     | powdercoated with SS insert | NI020/PS or DD020/PS | 7mm square – stainless steel |                    | LKINS3P/S       |            | LKINS8S/S       | LKINS8SS/S         |              | LKINS8T/S       |
|                     | stainless steel             | NI020/S or DD020/PS  | 7mm square – stainless steel |                    | LKINS3P/S       |            | LKINS8S/S       | LKINS8SS/S         |              | LKINS8T/S       |
| Key required – zinc |                             |                      | SKZ                          | SKZ                | SKZ             | SKZ        | SKZ             | SKZ                | SKZ          | SKZ             |

# Enclosure LED Lighting

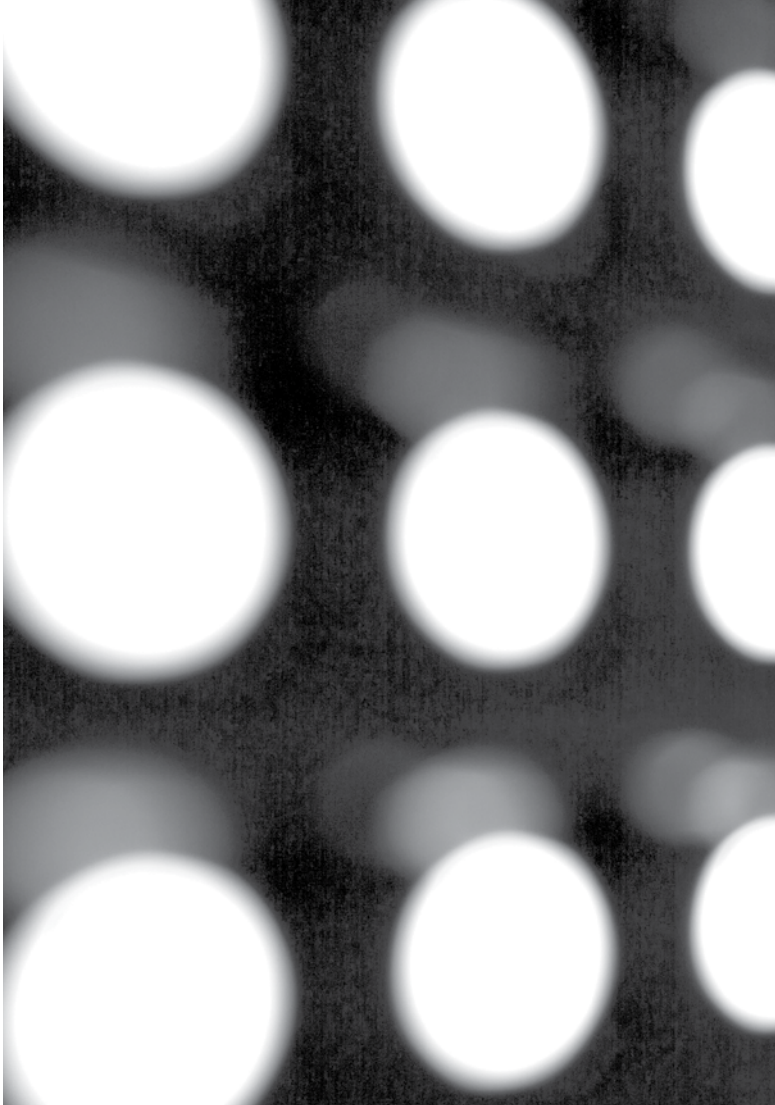
Our LED lighting solutions provide light inside an enclosure when visibility is required for both safety and efficacy.



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 hinged escutcheons when fitted to the roof. The optional PIR movement sensor can be used for power efficiency as an automatic 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.

B&R's LED lighting solutions are applied to provide excess light within an enclosure and becomes a continuous light source to provide extra visibility.

- Energy saving up to 50% compared with traditional fluorescents under the same lux.
- Life span – over 50,000 hours
- Available in cool white, neutral white and warm white colour temperatures.
- Available in 12V and 24V options.
- Easy linking up to 36 watts per run.
- Easy to install.
- Low voltage — safe and efficient.
- Manufactured from aluminium with black plastic end caps and acrylic lens.
- Light source – SM3528 LED
- Operating temperature – -20°C to 40°C indoors



This information is provided as a guide only. Contact your local sales representative to discuss your requirements.

## Technical Operating Data

| Length (mm) | Voltage (DC) | Power (W) | Radiance | Colour Temp | Luminous Flux (lm)* | LED Current (A) |
|-------------|--------------|-----------|----------|-------------|---------------------|-----------------|
| 300         | 12/24        | 3         | 90°      | 4400        | 280/360             | 0.18            |
| 500         | 12/24        | 5         | 90°      | 4400        | 460/600             | 0.18            |



## Monarch IP

| Part Number | Power (V) | Inclusions |              |          |        |            | Required Mounting Bracket |         |         | To suit enclosure |                            |
|-------------|-----------|------------|--------------|----------|--------|------------|---------------------------|---------|---------|-------------------|----------------------------|
|             |           | LED Light  | Power Supply | Splitter | Switch | Connectors | IPLKB04                   | IPLKB06 | IPLKB08 | Width (mm)        | Optional                   |
| BRLED300    | 12        | •          | •            |          | •      |            | •                         |         |         | 400               | BRMOT<br>PIR Motion Sensor |
| BRLED300/24 | 24        | •          | •            |          | •      |            | •                         |         |         | 400               |                            |
| BRLED500    | 12        | •          | •            |          | •      |            |                           | •       | •       | 600, 700 or 800   |                            |
| BRLED500/24 | 24        | •          | •            |          | •      |            |                           | •       | •       | 600, 700 or 800   |                            |
| BRLEDK03    | —         | •          |              | •        |        | •          | •                         |         |         | 400               |                            |
| BRLEDK05    | —         | •          |              | •        |        | •          |                           | •       | •       | 600, 700 or 800   |                            |

## Universal Double Door

| Part Number | Power (V) | Inclusions |              |          |        |            | Required Mounting Bracket |         | To suit enclosure |                            |
|-------------|-----------|------------|--------------|----------|--------|------------|---------------------------|---------|-------------------|----------------------------|
|             |           | LED Light  | Power Supply | Splitter | Switch | Connectors | DDLKB10                   | DDLKB12 | Width (mm)        | Optional                   |
| BRLED500    | 12        | •          | •            |          | •      |            | •                         |         | 1000              | BRMOT<br>PIR Motion Sensor |
| BRLED500/24 | 24        | •          | •            |          | •      |            |                           | •       | 1200              |                            |

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