



electrical

ENCLOSURES

Did you know that A&B Industries is the manufacturer?

We manufacture and distribute the products directly to you. There is no “middle man” this guarantees that you receive the best possible product at the best possible price.

Great Product Design and Functionality

A&B Industries Product Manager and founder is a mechanical tradesman who has been in the trade for over 25 years. His experience means that the product is designed to ensure that it functions the way it's supposed to, that's why we say A&B Industries is “Designed by tradesmen for tradesmen”. Our products are tested for reliability and safety. We have all the relevant approvals needed for our products such as the Australian Standards.

Complies to the Australian & New Zealand Standards

Product safety is a priority for us at A&B Industries. That is why we ensure that products comply with the Australian & New Zealand Standards.

What are Australian & New Zealand Standards (AUS/NZ)?

These Standards have been developed with a set of criteria's which the product must meet. To achieve this status, the product must pass a series of tests in which it is put under difficult conditions that are designed to be similar to those that the item will endure in its day to day function. If the product has passed these tests then it gains certification under the Australian and New Zealand Standard.

It is a requirement by legislation that if a product needs approval, then we must ensure that it is certified before it's sold to the customer. All Electrical manufacturers regardless of whether they are a sole trader or large multinational company must meet the same standard.

Our Gas Heating products are all audited yearly and Certified by the Australian Gas Association to comply with strict Gas Legislation.

Quality Assurance

Our aim has always been to offer our customers Quality. We use ISO 9001 Quality Management Systems.

100% Australian Owned

When you buy from A&B Industries you are supporting an Australian family owned and managed company. We employ around 20-30 full time and casual employees.

Certification & Accreditations

A&B is certified and accredited to the following standards: –

- ISO 9001:2008. Quality system helps ensure consistent product and traceability.
- AS/NZS 4801:2001. OH&S system protects our work force from dangers of working with sheet metal.
- NATA tested products – independently tested IP ratings
- AGA approved and tested

History

Key dates in the history of A&B are as follows:

- 1987 – A&B founded manufacturing Gas Heating and some Electrical Products.
- 1998 – Formation of Domestic Enclosures Division
- 1998 – Move to new premises in Salisbury South SA to increase capacity
- 2000 – Extension of Salisbury South premises completed
- 2007 – Celebrates 20 years of business.
- 2011 – Release of NBN enclosure system solution
- 2015 – Upgrade of existing plant to include new conveyor line and CNC Turret press.
- 2015 – Re-branding of A&B, consolidating all divisions to offer a unified vision for the future.
- 2016 - Installation of Powder Coating Oven and line.

Manufacturing Facilities

Adelaide – 2,000m²

Residential Commercial Electrical, Meter Enclosure, Gas Heating, Wood Fire and Fencing products are primarily manufactured from our facility in South Australia. Facilities include the following equipment.

- 8 various style “G” Presses
- 2 Guillotines with a capacity to cut 3.0 MS up to 2400 long.
- 30 Ton 2500 x 1200 Nishimbo CNC Turret Press
- CNC Plasma Cutting
- Tig welding of Stainless Steel and Aluminium
- Mig welding facilities.
- 4 Mechanical Brake Presses for folding material 3.0 x 3m long.
- Spot Welders.
- Flue Pipe forming and rolling machinery.
- Spray painting booth and conveyor line.
- Tool room facility to maintain and manufacture tooling and jigs.
- Transport capability to give on time delivery.

“

A&B Industries have been supplying our Wholesale Branches with various Electrical Components using high quality and precision work of complex fabrication tasks, managing production requirements against workshop commitments.

”



About A&B Industries

Welcome to our brand new brochure, we trust that this will be of assistance to you.

A&B Industries is proud to be an Australian sheet metal manufacturer with its factory located in the northern suburbs of Adelaide in South Australia.

We specialize in the manufacture of high quality products and components from galvanised, aluminium and stainless steel sheets. We have also great expertise in the manufacture of steel brackets, usually in hot dipped galvanised finish.

Over the past two decades A&B Industries have developed a large range of standard products, enclosures and hot dipped galvanised brackets for the Electrical, and Gas/ventilation, Wood Fire and Fencing Industries.

A&B Industries are also able to offer custom-built sheet metal enclosures for the electrical/electronic industry, from single units to small/medium production runs with obligation free assistance in design and quotations.

A&B Industries also like to highlight their ability to manufacture non-standard equipment in: Galvanised steel, stainless steel, aluminium, mild steel tubing etc.

- Switchboards and general purpose enclosures complete with cut-outs, equipment mounting plates, rain hoods.
- Powder coating of our products in any colour
- Ducting and flashings.
- Galvanised protection cages in any size
- Customer's Support Poles as specified by SAPN Guide for Customer's support poles
- Guillotining, bending, punching, welding, CNC Turret Punching and CNC Plasma Cutting

Feel free to call us anytime during working hours for an obligation free quotation and assistance in design.



Selecting The Right Enclosure

Supply Authority Requirements

Each state in Australia has regulation requirements when selecting an enclosure.

Protection Rating

This is the degree of protection of an electrical enclosure against dust, dirt and water. Called an IP rating.

Installation Parameters and Design

Where are you installing? What is the available space? What compliances? What features do you require? Yes we can do custom configurations.

Where to buy

We use a distribution network of Electrical Wholesalers. Can be purchased online. Visit abindustries.com.au/online-shop

Delivery

See our supply strategies opposite. All our Enclosures are shipped from Adelaide South Australia. Our customer service team will advise you of a delivery time to help your needs

Connect and Commission

Now that A&B has supplied a solution and delivered your enclosure its ready for connection, inspection and commissioning.

Icon Descriptions



304 Australian Standard Grade Stainless Steel.



316 Australian Standard Grade Stainless Steel.



Proudly made in Australia using products made to Australian Standards.



Australian Standard Grade Galvanized Sheet.



Protected against solid bodies greater than 12mm. Protected against rain water splashing in all directions.



Protected against solid bodies greater than 1mm (small tools). Protected against falling water up to 15° from the vertical.



Protected against dust (no harmful deposits). Protected against water jets from all directions.



Fully protected against dust. Protected against wave like water jets from all directions.



Powder Coated Finish.



These products are available ex stock from our warehouse.

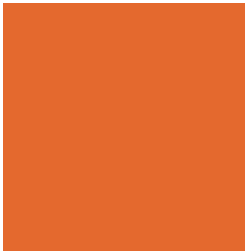


Assembled to order.

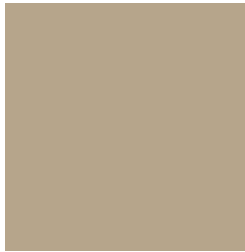


Engineered custom to order.

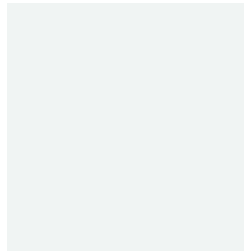
Powder Coating Specifications



Orange x15
(51439)



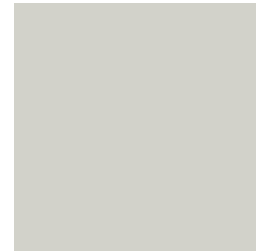
Light Grey Scylla
(50766)



Pearl White
(1114G)



Transformer Grey
(32186)



Surf Mist
(1137S)

A&B Industries uses the electrical industry colours of Surf Mist (1137S) Domestic Enclosures, Light Grey Scylla (50766) Multi Meter Enclosures, Orange X15 (51439) Caravan Park Enclosures and Temporary Enclosures, Transformer Grey (32186) SAPN Enclosures and Pearl White (1114G) Internal Components.

All powder coated enclosures manufactured at A&B Industries are powder coated using Dulux Powder and Industrial Coatings® and conform to the following testing. All test results are recorded and audited in accordance with ISO 9001: 2008 Quality System.

The Pre-Treatment Process

The majority of A&B's powder coated products are manufactured from zinc coated steel. This has a continuous hot dipped zinc coating (20 microns) added to the raw material, giving added corrosion resistance. The pre-treatment process itself consists of cleaning which removes all unwanted oils and grease.

Powder coating Thickness Test

The powder coat paint is applied to the steel at an average coating of 100 microns for ripple finish and 70 microns for gloss finish. The minimum coating thickness is 60 microns on the exterior, and 25 microns on the interior of the enclosure, which conforms to AS/NZS4506: 1998.

The paint thickness tests are conducted regularly, to a specified frequency, using a calibrated paint inspection gauge. The method of testing complies with the requirements of AS1580.108.1 – 1994.

Cure Test (Solvent Resistance Method)

Using a cure test solvent, the powder coat paint is tested to differentiate between cured and under-cured powder coatings. The test has been developed in consultation with our powder coating suppliers, and incorporates the comparison of the test results with known cured panels. The method of testing complies with the requirements of AS/NZS4506:2005.

Adhesion (Cross Cut Test)

This test is conducted to confirm that the adhesion properties satisfy the requirements of AS/NZS1580.408.4 – 1993.

Paint Color Comparison Test

All powder coated colors used by A&B Industries are inspected every time they are used to approve samples. The samples themselves are calibrated, to ensure that they match the colour standards specified in AS2700 – 1996, or an approved customer supplied sample.



Degrees of protection provided by enclosures (IP Code) AS 60529—2004.

The IP Code, International Protection Marking, IEC standard 60529, sometimes interpreted as Ingress Protection Marking, classifies and rates the degree of protection provided against intrusion (body parts such as hands and fingers), dust, accidental contact, and water by mechanical casings and electrical enclosures. It is published by the International Electro Technical Commission (IEC). The equivalent Australian standard is AS 60529-2004..

1ST NUMERAL - Protection against Solids

1	<i>Protected against solid bodies greater than 50mm.</i>
2	<i>Protected against solid bodies greater than 12mm.</i>
3	<i>Protected against solid bodies greater than 2.5mm.</i>
4	<i>Protected against solid bodies greater than 1mm (small tools).</i>
5	<i>Protected against dust (no harmful deposits).</i>
6	<i>Fully protected against dust.</i>

2ND NUMERAL - Protection against Liquids

1	<i>Protected against dripping water (condensation).</i>
2	<i>Protected against falling water up to 15° from the vertical.</i>
3	<i>Protected against rain water splashing in all directions.</i>
4	<i>Protected against water splashing in all directions.</i>
5	<i>Protected against water jets from all directions.</i>
6	<i>Protected against wave like water jets from all directions.</i>
7	<i>Protected against immersion.</i>
8	<i>Protected against the effects of prolonged immersion under water.</i>

Contents

Residential Meter Enclosures 8

Stainless Steel Straight Sided Only 16

Combined Services 17

Meters Only Rebated or Straight Sided 19

Dual Services - Straight Sided 21

Multi Meter Enclosures – Straight Sided only 25

Free Standing Multi Metering Enclosures 38

Distribution Enclosures - Metal 42

Distribution Enclosures - Plastic 43

Free Standing Main Switchboard 45

Economy General Purpose Enclosures 47

Economy Enclosure Powder Coated 49

Economy Enclosure Stainless Steel 50

Lockable Meter Isolators 51

NBN Home Networking Enclosures 52

Caravan Park 1 – 4 Outlet Enclosures 53

Meter Box Surrounds - Galvanized or Stainless 54

Termination Enclosures 55

3 Phase Distribution Boards no Busbar and Main Switch 56

Free Standing Multi Metering Enclosure 57

3 Phase Board 58

SAPN (ETSA) Service Fuse Enclosures 59



RESIDENTIAL METER ENCLOSURES

Type 1 24 Din Includes Meter Isolator



SA Domestic Single Dwelling Meter Enclosure available in straight sided or rebated sided to suit standard brick construction with provision for, 24 DIN rail equipment and with generous wiring room.

- Brick opening 600 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 350 x 350 x 6.0, with 1 meter provision.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist OR Z275 Galvanized steel.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- Multiple sized KO's in bottom.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABMB124MI	Powder Coated Rebated	1
ABMB124MIS	Powder Coated Straight Sided	1
ABMB124MIU	Galvanized Rebated	1
ABMB124MISU	Galvanized Straight Sided	1



Type 1 42 DIN Rebated Includes Meter Isolator



SA Domestic Single Dwelling Meter Enclosure available in straight sided or rebated sided to suit standard brick construction with provision for, 42 DIN rail equipment and with generous wiring room.

- Brick opening 685 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 350 x 350 x 6.0, with 1 meter provision.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- Multiple sized KO's in bottom.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABMB142MI	Powder Coated Rebated	1
ABMB142MIS	Powder Coated Straight Sided	1
ABMB142MIU	Galvanized Rebated	1
ABMB142MISU	Galvanized Straight Sided	1





RESIDENTIAL METER ENCLOSURES

Type 2 24 DIN Includes Meter Isolator



SA Domestic Single Dwelling Meter Enclosure available in straight sided or rebated sided to suit standard brick construction with provision for, 24 DIN rail equipment and with generous wiring room.

- Brick opening 850 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 600 x 350 x 6.0, with 3 meter provisions.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- Multiple sized KO's in bottom.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABMB224MI	Powder Coated Rebated	1
ABMB224MIS	Powder Coated Straight Sided	1
ABMB224MIU	Galvanized Rebated	1
ABMB224MISU	Galvanized Straight Sided	1



Type 2 42 DIN Includes Meter Isolator



SA Domestic Single Dwelling Meter Enclosure available in straight sided or rebated sided to suit standard brick construction with provision for, 42 DIN rail equipment and with generous wiring room.

- Removable double hinged Type X Panel, size 600 x 350 x 6.0, with 3 meter provisions.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- Multiple sized KO's in bottom.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABMB242MI	Powder Coated Rebated	1
ABMB242MIS	Powder Coated Straight Sided	1
ABMB242MIU	Galvanized Rebated	1
ABMB242MISU	Galvanized Straight Sided	1





Type 3 24 DIN Includes Meter Isolator Powder Coated or Galvanized



SA Domestic Single Dwelling Electric, Gas and Fibre Optic Meter Enclosure available in rebated sided to suit standard brick construction with provision for, 24 DIN rail equipment and with generous wiring room. Manufactured in 3 separate sections, to guarantee total separation between, Electric and Gas services.

- Size 1570 high (18 brick courses) x 480 wide (2 brick width) x 265 deep.
- Removable double hinged Type X Panel, size 350 x 350 x 6.0, with 1 meter provision and 415 x 400 x 12 MDF Panel for Fibre Optic section.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007. AS5601:2004 Australian Gas Installations.
- Earth, Neutral bars and DIN rail fitted.
- 40mm knock out on LH side for consumer mains entry.
- 40mm knock out with bush and sealing cap on LH side of electrical section for use as temporary power.
- 32mm knock outs into Fibre Optic cavity.
- Duct through Gas compartment for Fibre Optic to allow surface entry.
- Standard finish is Powder Coated Grey Surf Mist or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- 32mm KO's in sides only.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABCsMBT3	Powder Coated Rebated	1
ABCsMBT3S	Powder Coated Straight	1
ABCsMBT3U	Galvanized Rebated	1
ABCsMBT3US	Galvanized Straight	1



Type 3 42 DIN Rebated or Straight Sided Electric, Fibre Optic and Gas and Fibre Optic. SA only. Powder Coated or Galvanized. Rebated only.



Note-24 Din shown.

SA Domestic Single Dwelling Electric, Gas and Fibre Optic Meter Enclosure available in rebated or straight sided to suit standard brick construction with provision for, 42 DIN rail equipment and with generous wiring room. Manufactured in 3 separate sections, to guarantee total separation between, Electric and Gas services.

- Size 1655 high (19 brick courses) x 480 wide (2 brick width) x 265 deep.
- Removable double hinged Type X Panel, size 350 x 350 x 6.0, with 1 meter provision and 415 x 400 x 12 MDF Panel for Fibre Optic section.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007. AS5601:2004 Australian Gas Installations.
- Earth, Neutral bars and DIN rail fitted.
- 40mm knock out on LH side for consumer mains entry.
- 40mm knock out with bush and sealing cap on LH side of electrical section for use as temporary power.
- 32mm knock outs into Fibre Optic cavity.
- Duct through Gas compartment for Fibre Optic to allow surface entry.
- Standard finish is Powder Coated Grey Surf Mist or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- 32mm KO's in sides only.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABCsMBT342	Powder Coated Rebated	1
ABCsMBT342S	Powder Coated Straight Sided	1
ABCsMBT342U	Galvanized Rebated	1
ABCsMBT342US	Galvanized Straight Sided	1





Type 2 Full Panel Rebated No Meter Isolator - Rebated only



SA Domestic Single Dwelling Meter Enclosure available in rebated sided only to suit standard brick construction with NO provision for DIN rail equipment.

- Brick opening 850 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 800 x 350 x 6.0, with 3 meter provision. No Meter Isolation.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry.
- Multiple sized KO's in bottom.

# Code	Product Details	Qty
ABMBFPT2R	Powder Coated Rebated	1
ABMBFPT2RU	Galvanized Rebated	1



Type 3 No Gas. Inc. Electric and Fibre Optic only



SA Domestic Single Dwelling Electric and Fibre Optic Meter Enclosure available in rebated sided to suit standard brick construction with provision for, 24 DIN rail equipment and with generous wiring room. Manufactured in 2 separate sections, to guarantee total separation between, Electric and Fibre Optic services.

- Removable double hinged Type X Panel, size 350 x 350 x 6.0, with 1 meter provision and 415 x 400 x 12 MDF Panel for Fibre Optic section.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007. AS5601:2004 Australian Gas Installations.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- 32mm KO's in sides only.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABMBDS24MI	Powder Coated Rebated	1
ABMBDS24MIU	Galvanized Rebated	1





METERS ONLY REBATED OR STRAIGHT SIDED

Type 1 42 DIN Stainless Steel Includes Meter Isolator



SA Domestic Single Dwelling Meter Enclosure available in straight sided only to suit standard brick construction with provision for, 42 DIN rail equipment and with generous wiring room.

- Brick opening 685 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 350 x 350 x 6.0, with 1 meter provision.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is #4 Brushed.
- Manufactured using Australian Grade 304 #4 Stainless Steel.
- Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- Multiple sized KO's in top and bottom.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABSSMB142S	42 DIN - Stainless	1



Type 2 42 DIN Stainless Steel Includes Meter Isolator



SA Domestic Single Dwelling Meter Enclosure available in Straight sided only to suit standard brick construction with provision for, 42 DIN rail equipment (2 rows) and with generous wiring room.

- Brick opening 935 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 600 x 350 x 6.0, with 1 meter provision.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth, Neutral bars and DIN rail fitted.
- Manufactured using Australian Grade 304 #4 Stainless Steel.
- Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- Multiple sized KO's in top and bottom.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABSSMB242S	42 DIN - Stainless	1





M2 Full Panel Stainless Steel Straight Sided Only



SA Domestic Single Dwelling Meter Enclosure available in straight sided only to suit standard brick construction no provision for DIN rail equipment.

- Brick opening 685 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 600 x 350 x 6.0, with 3 meter provision.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker and includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Standard finish is 2b brushed finish.
- Manufactured using Australian Grade 445 2b Stainless Steel.
- Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush.
- Multiple sized KO's in top and bottom.

# Code	Product Details	Qty
ABSSMB2S	Full Panel - Stainless	1



Electric, Gas and Fibre Optic - 17 DIN or 34 DIN

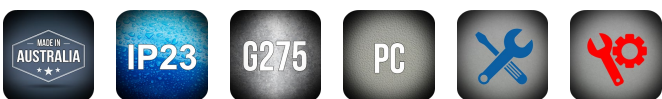


SA Domestic Single Dwelling Electric, Gas and Fibre Optic Meter Enclosure available in rebated sided only to suit standard brick construction with provision for, 17 DIN or 34 DIN rail equipment and with generous wiring room. Manufactured in 3 separate sections, to guarantee total separation between, Electric and Gas services.

- Brick opening 1200 x 700 x 265 deep.
- Removable double hinged Type X Panel, size 450 x 350 x 6.0, with 1 meter provision and 590 x 290 x 12 MDF Panel for Fibre Optic section.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007. AS5601:2004 Australian Gas Installations.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist or galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- 32mm KO's in sides only.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABC SMB17	1 Row - 17 DIN	1
ABC SMB34	2 Rows - 34 DIN	1

****OBSOLETE ENCLOSURE****



Electric, Gas and Fibre Optic - Full Panel



SA Domestic Single Dwelling Electric, Gas and Fibre Optic Meter Enclosure available in rebated sided to suit standard brick construction with NO provision DIN rail equipment and with generous wiring room. Manufactured in 3 separate sections, to guarantee total separation between, Electric and Gas services.

- Brick opening 1200 x 700 x 265 deep.
- Removable double hinged Type X Panel, size 600 x 350 x 6.0, with 3 meter provision and 590 x 290 x 12 Type X Panel for Fibre Optic section.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007. AS5601:2004 Australian Gas Installations.
- Standard finish is Powder Coated Grey Surf Mist or galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- 32mm KO's in sides only.

****OBSOLETE ENCLOSURE****

# Code	Product Details	Qty
ABC SMBFP	No Provision DIN	1



M1 Meters Only Inc. Meter Isolator



SA Domestic Single Dwelling Meter Enclosure available in straight sided or rebated sided to suit standard brick construction with NO provision DIN rail equipment.

- Brick opening 425 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 350 x 350 x 6.0, with 1 meter provision. Includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Standard finish is Powder Coated Grey Surf Mist or galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry.
- Multiple sized KO's in bottom.

# Code	Product Details	Qty
ABM1MI	Rebated - Powder Coated	1
ABM1MIS	Straight Sided - Powder Coated	1
ABM1MIG	Rebated - Galvanized	1
ABM1MISG	Straight Sided - Galvanized	1





METERS ONLY REBATED OR STRAIGHT SIDED

M2 Meters Only Inc. Meter Isolator Powder Coated or Galvanized



SA Domestic Single Dwelling Meter Enclosure available in straight sided or rebated sided to suit standard brick construction with NO provision DIN rail equipment.

- Brick opening 685 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 600 x 350 x 6.0, with 3 meters provision. Includes Meter Isolator.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Standard finish is Powder Coated Grey Surf Mist or galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry.
- Multiple sized KO's in bottom.

# Code	Product Details	Qty
ABM2MI	Rebated - Powder Coated	1
ABM2MIG	Rebated - Galvanized	1
ABM2MIS	Straight Sided - Powder Coated	1
ABM2MISG	Straight Sided - Galvanized	1



Dual Services 2 Doors and 2 Panels



SA Domestic Single Dwelling Electric and Fibre Optic Meter Enclosure available in rebated sided to suit standard brick construction with NO provision for DIN rail equipment and with generous wiring room. Manufactured in 2 separate sections to guarantee total separation between, Electric and Fibre Optic services.

- Brick opening 700 x 700 x 265 deep.
- Removable double hinged Type X Panel, size 600 x 350 x 6.0, with 3 meter provision and 590 x 290 x 12 MDF Panel for Fibre Optic section.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Standard finish is Powder Coated Grey Surf Mist or galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- 32mm KO's in sides only.

# Code	Product Details	Qty
ABMBDSFP	Galvanized	1
ABMBDSFPP	Powder Coated	1





DUAL SERVICES - STRAIGHT SIDED

Dual Services 2 Doors, 17 DIN & 2 Panels



SA Domestic Single Dwelling Electric and Fibre Optic Meter Enclosure available in rebated sided to suit standard brick construction with provision for, 17 DIN rail equipment and with generous wiring room. Manufactured in 2 separate sections, to guarantee total separation between, Electric and Fibre Optic services.

- Brick opening 700 x 700 x 265 deep.
- Removable double hinged Type X Panel, size 450 x 350 x 6.0, with 1 meter provision and 590 x 290 x 12 MDF Panel for Fibre Optic section.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist or galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABMBDS17	Galvanized	1
ABMBDS17P	Powder Coated	1



Dual Services 2 Doors, 24 DIN & 2 Panels



SA Domestic Single Dwelling Electric and Fibre Optic Meter Enclosure available in rebated sided to suit standard brick construction with provision for, 24 DIN rail equipment and with generous wiring room. Manufactured in 2 separate sections, to guarantee total separation between, Electric and Fibre Optic services.

- Brick opening 1075 x 480 x 265 deep.
- Removable double hinged Type X Panel, size 350 x 350 x 6.0, with 1 meter provision and 400 x 400 x 12 MDF Panel for Fibre Optic section.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker, of choice.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist or galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABMBDS24MIP	No Gas - Powder Coated	1
ABMBDS24MI	No Gas - Galvanized	1



Dual Services 2 Doors, 24 Din & 1 Panel Inc. Gas.



SA Domestic Single Dwelling Electric and Gas Meter Enclosure available in rebated sided to suit standard brick construction with provision for, 24 DIN rail equipment and with generous wiring room. Manufactured in 3 separate sections, to guarantee total separation between, Electric and Gas services.

- Brick opening 1110 x 485 x 265 deep.
- Removable double hinged Type X Panel, size 350 x 350 x 6.0, with 1 meter provision.
- Comes with, Single Pole MCB 6kVA 63A, Circuit Breaker, of choice.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007. AS5601:2004 Australian Gas Installations.
- Earth, Neutral bars and DIN rail fitted.
- Standard finish is Powder Coated Grey Surf Mist or galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Tie off for temporary power and supplied nylon bush to protect temporary power cables.
- 32mm KO's in sides only.
- Comes with circuit identification labels and fill in pieces for DIN switch gear.

# Code	Product Details	Qty
ABMBDS24MIG	Including Gas - Galvanized	1
ABMBDS24MIGP	Including Gas - Powder Coated	1



****Sold as 2 separate enclosures with min. of 500mm gap between each enclosure as per AS4645:2018****

IB Powder Coated or Galvanized



SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only to suit standard brick construction with NO provision for DIN rail equipment and with generous wiring room.

- Brick opening 600 x 600 x 342 deep.
- Removable double hinged Type X Panel, size 525 x 550 x 6.0, with 4 meter provisions.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth bars fitted.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Earth Stud with nut and crimp lug supplied.
- Multiple sized KO's in top and bottom.
- Comes with legends cardholder.
- Sold in conjunction with ABDB Surface or Recessed 4-36 DIN Distribution Boxes.
- Lockable lift off door.

# Code	Product Details	Qty
ABIBP	Powder Coated	1
ABIBU	Galvanized	1





MULTI METER ENCLOSURES – STRAIGHT SIDED ONLY

JB Powder Coated or Galvanized



SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only to suit standard brick construction with NO provision for DIN rail equipment and with generous wiring room.

- Brick opening 900 x 600 x 342 deep.
- Removable double hinged Type X Panel, size 825 x 550 x 6.0, with 6 meter provisions.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth bars fitted.
- Standard finish is Powder Coated Light Grey or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Earth Stud with nut and crimp lug supplied.
- Multiple sized KO's in bottom and sides.
- Comes with Legends cardholder.
- Lockable lift off door.
- Sold in conjunction with ABDB Surface or Recessed 4-36 DIN Distribution Boxes.

# Code	Product Details	Qty
ABJBP	Powder Coated	1
ABJBU	Galvanized	1



JB 420 Deep Powder Coated or Galvanized



SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only to suit standard brick construction with NO provision for DIN rail equipment and with generous wiring room.

- Brick opening 900 x 600 x 420 deep.
- Removable double hinged Type X Panel, size 825 x 550 x 6.0, with 6 meter provisions.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth bars fitted.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Earth Stud with nut and crimp lug supplied.
- Multiple sized KO's in top and bottom.
- Comes with Legends cardholder.
- Lockable lift off door.
- Sold in conjunction with ABDB Surface or Recessed 4-36 DIN Distribution Boxes.

# Code	Product Details	Qty
ABJB42P	Powder Coated	1
ABJB42U	Galvanized	1





MULTI METER ENCLOSURES – STRAIGHT SIDED ONLY

JB 24 DIN Powder Coated or Galvanized



SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only to suit standard brick construction and with generous wiring room.

- Brick opening 900 x 600 x 342 deep.
- Removable double hinged Type X Panel, size 590 x 550 x 6.0, with 4 meter provisions.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth bars and DIN rail fitted.
- Standard finish is Powder Coated Light Grey or galvanized.
- Manufactured using Australian Grade G275 Galvanized Steel.
- Multiple sized KO's in top and bottom.
- Comes with Legends cardholder.
- Lockable lift off door.
- Sold in conjunction with ABDB Surface or Recessed 4-36 DIN Distribution Boxes.



# Code	Product Details	Qty
ABJBDINP	Powder Coated	1
ABJBDINU	Galvanized	1



KB Powder Coated or Galvanized



SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only to suit standard brick construction with NO provision for DIN rail equipment and with generous wiring room.

- Brick opening 900 x 800 x 342 deep.
- Removable double hinged Type X Panel, size 825 x 750 x 10.0, with 9 meter provisions.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth bars fitted.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Earth Stud with nut and crimp lug supplied.
- Multiple sized KO's in top and bottom.
- Comes with Legends cardholder.
- Lockable lift off door.
- Sold in conjunction with ABDB Surface or Recessed 4-36 DIN Distribution Boxes.

# Code	Product Details	Qty
ABKBP	Powder Coated	1
ABKBU	Galvanized	1





MULTI METER ENCLOSURES – STRAIGHT SIDED ONLY

KB 420 Deep Powder Coated or Galvanized



SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only to suit standard brick construction with NO provision for DIN rail equipment and with generous wiring room.

- Brick opening 900 x 800 x 420 deep.
- Removable double hinged Type X Panel, size 825 x 750 x 10.0, with 9 meter provisions.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth bars fitted.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Earth Stud with nut and crimp lug supplied.
- Multiple sized KO's in top and bottom.
- Comes with Legends cardholder.
- Lockable lift off door.
- Sold in conjunction with ABDB Surface or Recessed 4-36 DIN Distribution Boxes.

# Code	Product Details	Qty
ABKB42P	Powder Coated	1
ABKB42U	Galvanized	1



KB 34 DIN Powder Coated or Galvanized



SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only to suit standard brick construction and with generous wiring room.

- Brick opening 900 x 800 x 342 deep.
- Removable double hinged Type X Panel, size 590 x 750 x 10.0, with 6 meter provisions.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth bars and DIN rail fitted.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Cable entry with slider for easy cable entry and Earth Stud with nut and crimp lug supplied.
- Multiple sized KO's in top and bottom.
- Comes with Legends cardholder.
- Lockable lift off door.
- Sold in conjunction with ABDB Surface or Recessed 4-36 DIN Distribution Boxes.

# Code	Product Details	Qty
ABKBDINP	Powder Coated	1
ABKBDINU	Galvanized	1





LB 420 Deep Powder Coated or Galvanized



SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only to suit standard brick construction with NO provision for DIN rail equipment and with generous wiring room.

- Brick opening 1200 x 800 x 420 deep.
- Removable double hinged Type X Panel, size 1125 x 750 x 10.0, with 12 meter provisions.
- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Earth bars fitted.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade G275 Galvanized Steel.
- Earth Stud with nut and crimp lug supplied.
- Multiple sized KO's in top and bottom.
- Comes with Legends cardholder.
- Lockable lift off door.
- Sold in conjunction with ABDB Surface or Recessed 4-36 DIN Distribution Boxes.

# Code	Product Details	Qty
ABLB42P	Powder Coated	1
ABLB42U	Galvanized	1



JB & IB Plinth Powder Coated or Galvanized



Plinth to suit JB or an IB 342 deep SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only.

- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade G275 Galvanized Steel.
- Door covers bolted with dome nuts.

# Code	Product Details	Qty
ABPIJBP	Powder Coated	1
ABPIJBU	Galvanized	1





JB 420 Deep Plinth Powder Coated or Galvanized



Plinth to suit JB 420 deep SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only.

- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade G275 Galvanized Steel.
- Door covers bolted with dome nuts.

# Code	Product Details	Qty
ABPJB42P	Powder Coated	1
ABPJB42U	Galvanized	1



KB Plinth Powder Coated or Galvanized



Plinth to suit KB 342 deep SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only.

- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade G275 Galvanized Steel.
- Door covers bolted with dome nuts.

# Code	Product Details	Qty
ABPKB	Powder Coated	1
ABPKBU	Galvanized	1





KB 420 Deep Plinth Powder Coated or Galvanized



Plinth to suit KB 420 deep SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only to suit standard brick.

- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade G275 Galvanized Steel.
- Door covers bolted with dome nuts.

# Code	Product Details	Qty
ABPKB42P	Powder Coated	1
ABPKB42U	Galvanized	1



LB 420 Deep Plinth Powder Coated or Galvanized



Plinth to suit LB 420 deep SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only.

- Made to be compliant with, AS/NZS3000, AS/NZS6002, AS/NZS3439 and AS/NZS3012 with South Australian Power Network Utilities Service and Installation Rules – 2007.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade G275 Galvanized Steel.
- Door covers bolted with dome nuts.

# Code	Product Details	Qty
ABPLB42P	Powder Coated	1
ABPLB42U	Galvanized	1





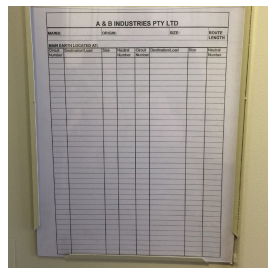
FREE STANDING MULTI METERING ENCLOSURES

IB Panel Powder Coated or Galvanized - Free Standing



Free Standing Enclosure IB 342 deep SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only.

- Brick opening 1700 x 825 x 342 deep.
- Removable double hinged Type X Panel, size 525 x 550 x 6.0, with 6 meter provisions.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade G275 Galvanized Steel.
- Door covers bolted with dome nuts.



# Code	Product Details	Qty
ABFMBI	Powder Coated	1
ABFMBIU	Galvanized	1

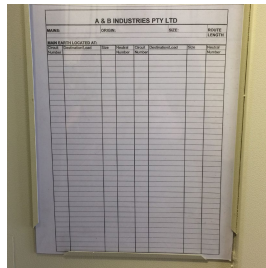


JB Panel Powder Coated or Galvanized - Free Standing



Free Standing Enclosure JB 342 deep SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only.

- Brick opening 1700 x 825 x 342 deep.
- Removable double hinged Type X Panel, size 825 x 550 x 6.0, with 9 meter provisions.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Door covers bolted with dome nuts.



# Code	Product Details	Qty
ABFMBJ	Powder Coated	1
ABFMBJU	Galvanized	1





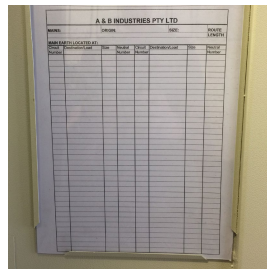
FREE STANDING MULTI METERING ENCLOSURES

KB Panel Powder Coated or Galvanized - Free Standing



Free Standing Enclosure KB 342 deep SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only.

- Brick opening 1700 x 1025 x 342 deep.
- Removable double hinged Type X Panel, size 1125 x 550 x 10.0, with 12meter provisions.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Door covers bolted with dome nuts.



# Code	Product Details	Qty
ABFMBK	Powder Coated	1
ABFMBKU	Galvanized	1

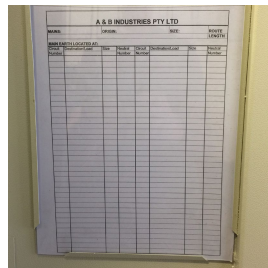


LB Panel Powder Coated or Galvanized - Free Standing



Free Standing Enclosure LB 342 deep SA Domestic Multiple Dwelling Electric Meter Enclosure available in straight sided only.

- Brick opening 1700 x 1025 x 342 deep.
- Removable double hinged Type X Panel, size 1125 x 750 x 10.0, with 16 meter provisions.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Door covers bolted with dome nuts.



# Code	Product Details	Qty
ABFMBL	Powder Coated	1
ABFMBLU	Galvanized	1





IP42 Flush/Surface Mounted Metal MCB Distribution Enclosures



A&B Industries range of IP42 Metal Powder Coated off White Load Centers are available from 12 to 48 DIN. Manufactured using 1.0mm Australian Grade G275 Galvanized Steel.

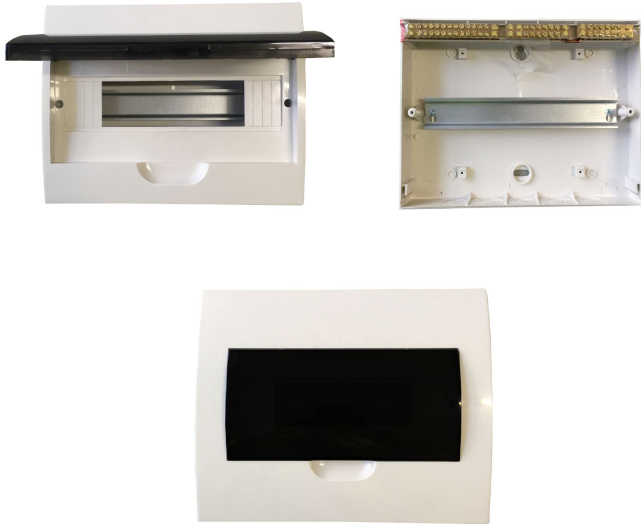
The range includes Rebated and Surface Mount units with removable doors. Each Load Center comes complete with;

- 1 x Earth Bar to suit
- 3 x Neutral Bars (for protected and unprotected circuits) to suit.
- Pole Fillers
- Powder Coated Off White.
- Circuit ID Stickers

# Code	Product Details	Qty
ABLC12F	12 DIN - Flush	1
ABLC18F	18 DIN - Flush	1
ABLC24F	24 DIN - Flush	1
ABLC24F2R	24 DIN - 2 Rows - Flush	1
ABLC36F2R	36 DIN - 2 Rows - Flush	1
ABLC48F2R	48 DIN - 2 Rows - Flush	1
ABLC12S	12 DIN - Surface	1
ABLC18S	18 DIN - Surface	1
ABLC24S	24 DIN - Surface	1
ABLC24S2R	24 DIN - 2 Rows - Surface	1
ABLC36S2R	36 DIN - 2 Rows - Surface	1
ABLC48S2R	48 DIN - 2 Rows - Surface	1



Distribution Boxes Plastic Surface Mounted



A&B Industries range of IP42 Plastic flame retardant off white Distribution Boxes, are available from 4 to 36 DIN.

The range includes Rebated and Surface Mount units with removable doors. Each Load Centre comes complete with;

- 1 x Earth Bar to suit
- 3 x Neutral Bars (for protected and unprotected circuits) to suit.
- Pole Fillers
- Circuit ID Stickers

# Code	Product Details	Qty
ABDB4S	200 x 120 - 4 DIN Surface	1
ABDB6S	200 x 150 - 6 DIN Surface	1
ABDB8S	200 x 190 - 8 DIN Surface	1
ABDB12S	200 x 260 - 12 DIN Surface	1
ABDB18S	223 x 365 - 18 DIN Surface	1
ABDB24S	275 x 328 - 24 DIN Surface	1
ABDB36S	315 x 470 - 36 DIN Surface	1





Distribution Boxes Plastic Recessed



A&B Industries range of IP42 Plastic flame retardant off white Distribution Boxes, are available from 4 to 36 DIN. The range includes Rebated and Surface Mount units with removable doors. Each Load Centre comes complete with;

- 1 x Earth Bar to suit
- 3 x Neutral Bars (for protected and unprotected circuits) to suit.
- Pole Fillers
- Off White.
- Bus Bar to suit
- Circuit ID Stickers

# Code	Product Details	Qty
ABDB4R	200 x 120 - 4 DIN	1
ABDB6R	200 x 150 - 6 DIN	1
ABDB8R	200 x 190 - 8 DIN	1
ABDB12R	200 x 260 - 12 DIN	1
ABDB18R	223 x 365 - 18 DIN	1
ABDB24R	275 x 328 - 24 DIN	1
ABDB36R	315 x 470 - 36 DIN	1



Free Standing Main Switchboard



Designed and Manufactured in compliance with AS3000:2007 Wiring Rules, AS 3439.1 and SAPN Service and Installation Rules – 2007. Manufactured from 1.2mm Galvabond Z275 hot dipped zinc coated sheet steel

- Double hinged lift-off meter panel
- Provision for DIN rail mounted main switch and Terasaki DIN rail Circuit Breakers fitted with DINLOCK meter isolator rails.
- Chamber RH side top fitted with a DIN rail to mount Circuit Breakers to protect outgoing sub mains or to fit connectors and earth and neutral bars.
- Sealable escutcheon with handle and drilled to take IP studs.
- Standard finish is Powder Coated Light Grey Scylla or Galvanized.
- IP Protection Rating IP55
- Lift-off door with chrome hinges
- Door with rubber seal and 3 point locking system.

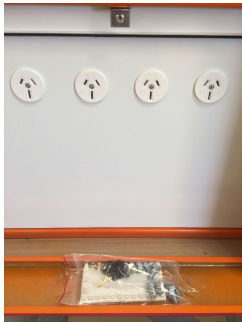
# Code	Product Details	Qty
ABFSMTI	FS IB Panel 1700x825x342	1
ABFSMTJ	FS JB Panel 1700x825x342	1
ABFSMTK	FS KB Panel 1700x825x342	1
ABFSMTL	FS LB Panel 1700x1025x342	1





FREE STANDING main SWITCHBOARD

Temporary Power Enclosure and Stand



The Temporary Power Outlet Enclosures come powder coated Electric Orange and available in 6, 12, 18 DIN - 15A single phase outlets.

- 600 x 485 x 220 deep
- Made to be compliant with, AS/NZS3000:2007, AS/NZS3012:2003 and compliant with South Australian Power Network Utilities Service and Installation Rules - 2007
- Manufactured using Australian Grade Z275 Galvanized Steel.
- Rated IP42
- Standard finish is Electric Orange Powder coating.
- Convenient side hung door.
- Facility for key lockable cam lock.
- Doors can only be removed removing split pin.
- Removable Escutcheon with handle.
- DIN rail fitted to allow required DIN rail equipment.
- DIN fill-ins, earth and neutral bars, lugs, washers and nuts provided.
- Slotted section on bottom as outlet for extension cables.
- Sturdy rail to secure cables.
- All labels for clear circuit identification.
- Stand sold as separate unit.
- Holes for mounting in feet of stands.
- Stands can be extended in height to 3300mm to lock the unit securely between floors.
- Stands fitted with hooks to keep cables off the ground.

# Code	Product Details	Qty
ABTP6SP	TP Box 6 x 15A	1
ABTP12SP	TP Box 12 x 15A	1
ABTP18SP	TP Box 18 x 15A	1
ABTPST	Stand	1



Economy General Purpose Enclosures



A&B Industries Economy Enclosures are of premium quality wall mounted general purpose electrical enclosures.

An Economy Enclosure is an enclosure readily used in the mining, oil & gas, infrastructure, industrial, commercial, communications, defense and food and beverage industries.

The Economy Enclosure range of electrical enclosures are rated IP55, IP65 and IP66. Manufactured from powder coated galvanized mild steel and grade 304 2b stainless steel, sizes range from 300H x 200W x 150D to 1200H x 1200W x 400D.



Available to be shipped nationally, on-line at www.abindustries.com.au and locally via enquiries@abindustries.com.au. Call for sales and technical support.

All A&B Enclosures incorporate advanced design features and each enclosure is manufactured to the highest of Australian standards.





Economy Enclosure Galvanised



# Code	Product Details	Qty
EG	Galvanized	1



A general-purpose enclosure available in Galvanized Steel.

- Manufactured using Australian Grade Z275 Galvanized Steel.
- Rated IP55
- Unique wrap around body design enables construction without welding or grinding of corners providing superior protection from corrosion.
- Rubber door sealing incorporating spring steel clamping for superior dust proofing.
- 2.0mm Galvanized steel mounting pan supplied standard.
- Galvanized hinges with stainless steel pins.
- Earth strap and earth studs included.
- External mounting brackets included.
- Combined fixing studs for mounting pan and external mounting brackets.
- Standard lock cam included.
- Full range of locks available
- Can be ordered in other colours.
- Insulating panel and DIN rail mounting kits available.
- 4 main sizes, EG321 - 300x200x150, EG432 - 400x300x200, EG642 - 600x400x250 and EG863 - 800x600x300. Other sizes made to order.

Economy Enclosure Powder Coated



A general-purpose enclosure available Powder Coated Galvanized Steel.

- Manufactured using Australian Grade Z275 Galvanized Steel.
- Rated IP55
- Powder Coated Light Grey Scylla
- Unique wrap around body design enables construction without welding or grinding of corners providing superior protection from corrosion.
- Rubber door sealing incorporating spring steel clamping for superior dust proofing.
- 2.0mm Galvanized steel mounting pan supplied standard.
- Galvanized hinges with stainless steel pins.
- Earth strap and earth studs included.
- External mounting brackets included.
- Combined fixing studs for mounting pan and external mounting brackets.
- Standard lock cam included.
- Full range of locks available
- Can be ordered in other colours.
- Insulating panel and DIN rail mounting kits available.
- 4 main sizes, EP321 - 300x200x150, EP432 - 400x300x200, EP642 - 600x400x250 and EP863 - 800x600x300. Other sizes made to order.

# Code	Product Details	Qty
EP	PC Light Grey Scylla	1





Economy Enclosure Stainless Steel



A general-purpose enclosure available in Stainless Steel.

- Manufactured using Australian Grade 304 2B Stainless Steel.
- Rated IP55
- Unique wrap around body design enables construction without welding or grinding of corners providing superior protection from corrosion.
- Rubber door sealing incorporating spring steel clamping for superior dust proofing.
- 2.0mm Galvanized steel mounting pan supplied standard.
- Stainless Steel hinges with Stainless Steel pins.
- Earth strap and earth studs included.
- External mounting brackets included.
- Combined fixing studs for mounting pan and external mounting brackets.
- Standard lock cam included.
- Full range of locks available
- Insulating panel and DIN rail mounting kits available.
- 4 main sizes, ES321 - 300x200x150, ES432 - 400x300x200, ES642 - 600x400x250 and ES863 - 800x600x300. Other sizes made to order.

# Code	Product Details	Qty
ES	304 2B Stainless Steel	1



Lockable Meter Isolators



Lockable Meter Isolator Enclosures suit Single and 3 Phase and fitted with 2 locking bars to suit different sized DIN Rail Circuit Breakers.

- Single phase 185x80x90 and 3 Phase 300x105x90.
- 80 - 100A
- Manufactured using 1.0mm Australian Grade Z275 Galvanized Steel.

# Code	Product Details	Qty
ABMIST	Single Phase	1
ABM180	3 Phase	1





NBN Home Networking Enclosures



A&B NBN enclosures provide a solution for Fibre-To-The-Home (FTTH) connectivity, suitable for fibre and copper cables. These are either surface or flush mounted. These enclosures meet the guidelines outlined in NBN’s Residential Preparation and Installation Guidelines.

Flush Mount + Plastic Window

Designed in 2 sections which houses all FTTH equipment. Has a removable frame with hinged door of metal construction. Plastic window suit wireless Wi-Fi equipment. Single side stud fixing. 4 knockouts 32mm top and bottom, and 1 on right hand side, bushes supplied. Removable plastic mounting panel size 700 x 380mm, fitted with a base for double GPO and a mounting panel for 8 port RJ45 patch panel with provision for an extra patch panel. Earth bar fitted Powder coated white satin finish. Includes Smoke Acrylic Door panel to allow ease of data transfer to the Wi-Fi router.



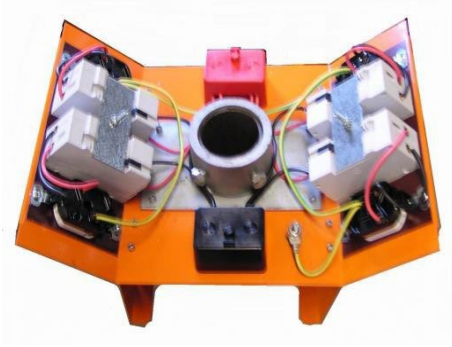
Surface Mount + Plastic Window

Designed in 2 sections which houses all FTTH equipment. Has a removable flashing to hide the cutout with hinged door of metal construction. Plastic window suit wireless Wi-Fi equipment. Single side stud fixing. 4 knockouts 32mm top and bottom, and 1 on right hand side, bushes supplied. Removable plastic mounting panel size 700 x 380mm, fitted with a base for double GPO and a mounting panel for 8 port RJ45 patch panel with provision for an extra patch panel. Earth bar fitted Powder coated white satin finish. . Includes Smoke Acrylic Door panel to allow ease of data transfer to the Wi-Fi router.

# Code	Product Details	Qty
ABICUFP	Flush Mount + Plastic Window	1
ABICUSP	Surface Mount + Plastic Window	1



Caravan Park 1 – 4 Outlet Enclosures Inc. Powder Coated Dulux Electric Orange



5 Models to choose from - 1, 2, 3 and 4 outlets. Designed specifically for caravan parks. Made to be compliant with, AS/NZS3000:2007, AS/NZS3012:2003 and compliant with South Australian Power Network Utilities Service and Installation Rules – 2007:

- Compact design
- Pre wired
- IP33 rated
- 15 AMP plugs
- Active & Neutral Links (35sq. mm)
- DIN RCD'S (Optional extra)
- Fits over 50 NB water pipe (no threading required)
- Manufactured with 1 mm Australian Grade Z275 Galvanized Steel
- Powder coated Electric Orange finish
- Lockable flap to keep out salt spray
- Extension cords can be locked into plugs

New style Caravan Park Enclosure

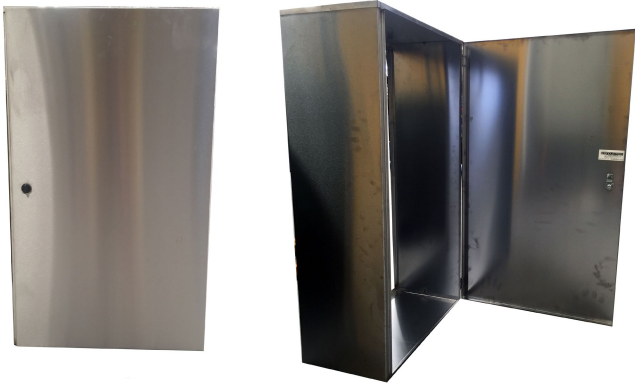
- More room for DIN mounted RCB/MCB, Meters and plugs.
- IP43 rated
- Powder Coated Electric Orange or Galvanized
- DIN mounted Meters available.
- Can be wall mounted.
- Fits over 50 NB water pipe.
- Manufactured using 1 mm Australian Grade Z275 Galvanized Steel

# Code	Product Details	Qty
ABCPE1	1 outlet no provision for meters	1
ABCPE2	2 outlet no provision for meters	1
ABCPE3	3 outlet no provision for meters	1
ABCPE4	4 outlet no provision for meters	1
ABCPE5	42 Way Double DIN	1
ABM1PH30	Meter suit DIN on ABCPE5	1
ABMCB2P16	RCB/MCB 2 Pole 6ka 16A	1
ABRCD2P4030	RCD 2 Pole 40A 30mA	1
ABRCD2P6330	RCD 2 Pole 63A 30mA	1





Meter Box Surrounds Galvanized or Stainless



Meter box surrounds come in custom and standard sizes to suit the main enclosures we manufacture. Made to replace the rusted or damaged outer box of the electrical enclosure without having to rewire and reinstall the complete box saving you time and money.

# Code	Product Details	Qty
ABMBSURG1	Suit any Type 1 Galvanized	1
ABMBSURG2	Suit any Type 2 Galvanized	1
ABMBSURG3	Suit IB Enclosure Galvanized	1
ABMBSURG4	Suit JB Enclosure Galvanized	1
ABMBSURS1	Suit any Type 1 Stainless	1
ABMBSURS2	Suit any Type 2 Stainless	1
ABMBSURS3	Suit IB Enclosure Stainless	1
ABMBSURS4	Suit JB Enclosure Stainless	1
ABMBSURPC	Powder Coated at extra cost.	1



Termination Enclosures rated IP66 Galvanized or Stainless Steel



This TE range of enclosures is designed for applications, where a smaller enclosure with an IP66 rating and a screwed-on lid is required, while maintaining the same features in strength, quality and protection against corrosion as in the Economy range.

- Manufactured from 1.0mm Galva bond Z275 zinc coated steel and Australian Grade 445 Marine Grade Stainless Steel.
- Fully welded reinforced corners for greater strength
- Powder coated - Ripple finish
- Lid secured with non-corrosive screws indented into the lid and held captive with rubber washers
- IP 66 protection rating
- Rubber seal incorporating spring steel clamping for superior dust proofing

Standard equipment with each enclosure:

- Galvanised mounting pan, mounting brackets with bolts and nuts
- Earth strap with nuts and washers and DIN rail.
- Industrial 3 Phase Enclosures Descriptions

In compliance with AS3000, AS3439.1 and SAPN Utilities Services & Installation Rules.

Please note: The number of circuit breakers listed relates to the enclosure being mounted horizontally with the height at 200mm as shown

# Code	Product Details	Qty
ABTB151512	150 x 150 x 120	1
ABTB202012	200 x 200 x 120	1
ABTB302012	300 x 200 x 120	1
ABTB402012	400 x 200 x 120	1
ABTB602012	600 x 200 x 120	1
ABTB603012	600 x 300 x 120	1
ABTB404012	400 x 400 x 120	1
ABTB15158	150 x 150 x 80	1
ABTB30158	300 x 150 x 80	1
ABTB40208	400 x 200 x 80	1
ABTB15158S	150 x 150 x 80 Stainless	1
ABTB30158S	300 x 150 x 80 Stainless	1
ABTB20208S	200 x 200 x 80 Stainless	1
ABTB30208S	300 x 200 x 80 Stainless	1
ABTB402012S	400 x 200 x 120 Stainless	1
ABTB303012S	300 x 300 x 120 Stainless	1





3 PHASE DISTRIBUTION BOARDS NO BUSHBAR AND MAIN SWITCH

3 Phase Distribution Boards no Busbar and Main Switch



These distribution boards provide a robust but flexible industrial 3 phase distribution switchboard, manufactured from 1.2mm zinc coated steel and powder coated in Ripple Grey. Width is 550 x 150 deep.

- The lift-off door has brass pin hinges, a 7mm square key lock and a legend holder.
- Alternative locks can be ordered such as key lockable, handle etc.
- The unit is fitted with removable aluminium gland plates top and bottom and 4 mounting holes are provided in the back for surface mounting.
- Removable chassis with 2 vertical DIN rails for ease of fitting of c/breakers and busbars systems (Image 5).
- Neutral/earth bars 165A fitted.
- Provision for 2 x 4.5 DIN module provided with mounting bracket for accessories and horizontal cut outs in escutcheon.
- Ample of space is available for wiring ducts.
- Dished white escutcheon fitted with printed labels for ease of circuit identification.
- Handles fitted to the escutcheon.
- Available from 18 to 48-pole capacity with DIN railing only, or with a 3 phase busbar system with or without 160A main switch fitted.

# Code	Product Details	Qty
ABDB18	18 DIN no Bus Bar or Main Switch	1
ABDB24	24 DIN no Bus Bar or Main Switch	1
ABDB36	36 DIN no Bus Bar or Main Switch	1
ABDB48	48 DIN no Bus Bar or Main Switch	1

Earth and neutral bars are mounted on the RH side.

The DIN rails on either side in the enclosure are adjustable in height to compensate for variations of the bus bar entries into the c/breakers.

These variations in height of entry are clearly visible in the 3 circuit breakers in the centre compared to the outer ones.

For this reason it is recommended to use one make of circuit breaker or at least ensure, that selected circuit breakers are compatible with regards to the height of entry.



Small Main Boards



The Small Main Board is a standard enclosure for installations requiring current transforming metering and is manufactured from 1.6mm Galva bond Z275 hot dipped zinc coated sheet steel, powder coated in Light Grey Scylla.

- The lift-off door has chrome block hinges, a 3-point locking system and a rubber seal incorporating spring steel clamping.
- The enclosure is rated IP55.
- The top section has a double-hinged sealable lift-off meter panel 700 x 550 high.
- The centre section is the Supply Authority CT chamber, which has a lift-off and sealable door, a removable CT mounting chassis with copper busbars and removable links, a neutral bar and a mounting bracket with DIN rail for potential fuses.
- The bottom section is divided into 2 separate compartments:
 - The LH side is for the Supply Authority, which has an aluminium removable gland plate on the bottom, an insulating mounting panel 300 x 350 high for the main isolator/current limiter, the main neutral bar and a sealable escutcheon with handles.
 - The RH side is the consumer's section and also has an aluminium removable gland plate, an insulating panel 400 x 600 high to mount protection devices for out-going mains, Neutral, M.E.N. and Earth bars and a cover with handles.
- Labels identifying the CT chamber, Supply Authority and Consumer's sections are fitted.
- The enclosure is mounted on a 75mm plinth with fixing holes and lifting eyebolts are supplied and fitted.

# Code	Product Details	Qty
ABSMB200	100-299A Powder Coated	1
ABSMB600	300-600A Powder Coated	1



When ordering please supply the main isolator for it to be fitted with matching cut-out in the escutcheon.



3 PHASE BOARD

3 Phase Board



Removable chassis with 2 vertical DIN rails for ease of fitting of c/breakers and busbars systems (Image 5)

Neutral/earth bars 165A fitted.

Provision for 2 x 4.5 DIN module provided with mounting bracket for accessories and horizontal cut outs in escutcheon.

Ample of space is available for wiring ducts.

Dished white escutcheon fitted with printed labels for ease of circuit identification.

Handles fitted to the escutcheon.

Available from 18 to 48-pole capacity with DIN raiiling only, or with a 3 phase busbar system with or without 160A main switch fitted.

The 160A main switch (image 2) is fitted on the horizontal DIN rail (image 5), which also provides space to mount 2 x 4.5 modules of DIN rail equipment.

Earth and neutral bars are mounted on the RH side

Image 3 and 6 show the totally encapsulated bus bar system.

The DIN rails on either side in the enclosure are adjustable in height to compensate for variations of the bus bar entries into the c/breakers

These variations in height of entry are clearly visible in the 3 c/breakers in the centre compared to the outer ones (image 4).

For this reason it is recommended to use one make of c/breaker or at least ensure, that selected circuit breakers are compatible with regards to the height of entry.

# Code	Product Details	Qty
ABDB18BB	18 DIN Inc. Bus Bar	1
ABDB24BB	24 DIN Inc. Bus Bar	1
ABDB36BB	36 DIN Inc. Bus Bar	1
ABDB48BB	48 DIN Inc. Bus Bar	1
ABDB18M160	18 DIN Inc. Bus Bar and Main Switch	1
ABDB24M160	24 DIN Inc. Bus Bar and Main Switch	1
ABDB36M160	36 DIN Inc. Bus Bar and Main Switch	1
ABDB48M160	48 DIN Inc. Bus Bar and Main Switch	1



These distribution boards provide a robust but flexible industrial 3 phase distribution switchboard, manufactured from hot dipped 1.2mm zinc coated steel and powder coated in Ripple Grey. Width is 550 x 150 deep.

The lift-off door has brass pin hinges, a 7mm square key lock and a legend holder. Alternative locks can be ordered such as key lockable, handle etc.

The unit is fitted with removable aluminium gland plates top and bottom and 4 mounting holes are provided in the back for surface mounting.

SAPN (ETSA) Service Fuse Enclosures



Designed and manufactured in compliance with AS3000 and SAPN (ETSA) Utilities Service and Installation Rules. Manufactured using Australian Grade G275 Galvanized Steel.

- Lift-off side-hung door with chrome plated hinges and brass pins
- Powder Coated Transformer Grey with Labels fitted
- ABETSASF24 with ABETSAP plinth fitted Lift-off bottom-hung door with chrome-plated hinges and brass pins
- Locking system supplied for both units: 2 standard cam locks suit 7mm square keys and a 5 pin keys tumbler mechanism 30mm diameter x 28mm depth. SAPN Utilities replaces barrel on connection.
- Rubber seal for superior dust proofing
- The 200-400A unit has 4 tapped mounting blocks (1) welded to the back to mount the fuse panel (supplied by SAPN) and has provision for earth/neutral bond (2)



# Code	Product Details	Qty
ABETSASF	SAPN 100A	1
ABETSASF24	SAPN 200-400A	1
ABETSAP	SAPN Plinth Only	1





The attractive and hygienic surface appearance of stainless steel products cannot be regarded as completely maintenance free. All grades and finishes of stainless steel may in fact stain, discolour or attain an adhering layer of grime in normal service. To achieve maximum corrosion resistance the surface of the stainless steel must be kept clean.

Provided the grade, condition and surface finish were correctly selected for the particular service environment, fabrication and installation procedures were correct and that cleaning schedules are carried out regularly, good performance and long life will be achieved. Frequency and cost of cleaning of stainless steel is lower than for many other materials and this will often out-weigh higher acquisition costs.

Why Maintenance is Necessary

Surface contamination and the formation of deposits are critical factors which may lead to drastically reduced life. These contaminants may be minute particles of iron or rust from other non-stainless steels used in nearby construction and not subsequently removed. Industrial, commercial and even domestic and naturally occurring atmospheric conditions can result in deposits which can be quite corrosive. An example is salt deposits from marine conditions.

Working environments can also create more aggressive conditions, such as the warm, high humidity atmosphere above indoor swimming pools. This particular environment has in a small number of instances been found to be highly aggressive, and specialist advice should be obtained.

Aggressive operating environments can increase the speed of corrosion and therefore require more frequent maintenance. Modern processes use many cleaners, sterilizers and bleaches for hygienic purposes. These proprietary solutions, if appropriate for use with stainless steel and when used in accordance with their makers' instructions are safe, but if used incorrectly (e.g. warm or concentrated) can cause discolouration and corrosion on the surface of stainless steels.

Maintenance during Installation

Cleaning of new fabrications should present no special problems, although more attention may be required if the installation period has been prolonged.

Where surface contamination is suspected, immediate attention to cleaning will promote a trouble-free service life. Food handling, pharmaceutical and aerospace applications may require extremely high levels of cleanliness.

Strong acid solutions (e.g. hydrochloric acid or "spirits of salts") are sometimes used to clean masonry and tiling during building construction but they should never be permitted to come into contact with metals, including stainless steel. If this should happen the acid solution must be removed immediately by copious water flushing, but even if promptly removed the appearance of the steel may be unacceptably changed.

On-Going Maintenance

Advice is often sought concerning the frequency of cleaning of products made of stainless steel, and the answer is quite simply "clean the metal when it is dirty in order to restore its original appearance". A rule of thumb for many exterior building installations is to clean the stainless steel whenever the nearby glass needs cleaning.

This may vary from one to four times a year for external applications or it may be once a day for an item in hygienic or aggressive situations. In many applications the cleaning frequency is after each use. Suggested cleaning intervals are as in this table – these should be modified by experience. Note that natural rain is an effective cleaner – those items that are not washed by rain water may need more frequent maintenance cleaning.

Good Housekeeping during Manufacture

Stainless steel can be contaminated by pick-up of carbon steel ("free iron") and this is likely to lead to rapid localized corrosion. The ideal is to have workshops and machinery dedicated to only stainless steel work, but in a workshop also processing other steels avoid pick-up from:

- Tooling used with other metals
- Steel storage racks
- Handling Equipment
- Grinding wheels, wire brushes, finishing belts
- Contamination by grinding or welding sparks from adjacent carbon steel fabrication

Cleaning Methods

Sections below give passivation treatments for removal of free iron and other contamination resulting from handling, fabrication, or exposure to contaminated atmospheres, and pickling treatments for removal of high temperature scale from heat treatment or welding operations.

Passivation Treatments

- Grades with at least 16% chromium (except free machining grade such as 303): 20-50% nitric acid, at room temperature to 40oC for 30-60 minutes.
- Grades with less than 16% chromium (except free machining grades such as 416): 20-50% nitric acid, at room temperature to 40oC for 60 minutes.
- Free machining grades such as 303, 416 and 430F: 20-50% nitric acid + 2-6% sodium dichromate, at room temperature to 50oC for 25 - 40 minutes.

Pickling Treatments

- All stainless steels (except free machining grades): 8-11% sulphuric acid, at 65 to 80oC for 5-45 minutes.
- Grades with at least 16% chromium (except free machining grades): 15-25% nitric acid + 1-8% hydrofluoric acid, at 20 to 60oC for 5-30 minutes.
- Free machining grades and grades with less than 16% chromium such as 303, 410 and 416: 10-15% nitric acid + 0.5-1.5% hydrofluoric acid, at 20 to 60oC for 5-30 minutes.

"Pickling Paste" is a commercial product of hydrofluoric and nitric acids in a thickener - this is useful for pickling welds and spot contamination, even on vertical and overhanging surfaces.

Recommendations for Cleaning of Specific Products

Stainless steel is easy to clean compare to many other materials. Washing with soap or a mild detergent and warm water followed by a clean water rinse is usually quite adequate for domestic and architectural equipment. An enhanced appearance will be achieved if the cleaned surface is finally wiped dry. Specific methods of cleaning are as in the table on the next page.

These are recommendations only, and it must be recognized that there are risks associated with all cleaning operations. All such treatments must be evaluated by the user.

* Precautions

Acids:

Should only be handled using personal protective equipment as detailed in relevant MSDS and other product-specific information. Care must be taken that acids are not spilt over adjacent areas. All residues must be flushed to a treated waste stream (refer to local water authorities for regulations and assistance). Always dilute by adding acid to water, not water to acid. Use acid-resistant containers, such as glass or plastics.

If no dulling of the surface can be tolerated a trial treatment should be carried out; especially for pickling operations. All treatments must be followed by thorough rinsing.

Solvents:

Should not be used in confined spaces. Smoking must be avoided when using solvents.

Chlorides:

Are present in many cleaning agents. This entails risk of pitting corrosion of stainless steel. If a cleaner containing chlorine, chlorides, bleaches or hypochlorites is used it must be afterwards promptly and thoroughly cleaned off.

PROBLEM	CLEANING AGENT	COMMENTS
Routine cleaning all finishes.	Soap or mild detergent and water. (preferably warm).	Sponge, rinse with clean water, wipe dry if necessary. Follow polish lines.
Fingerprints All finishes.	Soap and warm water or organic solvent (eg. acetone, alcohol, methylated spirits).	Rinse with clean water and wipe dry. Follow polish lines.
Stubborn stains and discolouration all finishes.	Mild cleaning solutions. Ensure any proprietary cleaners' state compatibility with stainless steel phosphoric acid cleaners may also be effective.	Use rag, sponge or fiber brush (soft nylon or natural bristle. An old toothbrush can be useful). Rinse well with clean water and wipe dry. Follow polish lines.
Lime deposits from hard water.	Solution of one part vinegar to three parts water.	Soak in solution then brush to loosen. Rinse well with clean water.
Oil or grease marks. All finishes.	Organic solvents (eg. acetone, alcohol, methylated spirits, proprietary "safety solvents"). Baked-on grease can be softened beforehand with ammonia.	Clean after with soap and water, rinse with clean water and dry. Follow polish lines.
Rust and other corrosion products. Embedded or adhering "free iron".	Very light rust stains can be removed by 10% nitric acid. More significant rust or embedded iron will require pickling. See also previous sections on Passivating and Pickling. Sand or glass-bead blasting is another option.	Wear PPE as appropriate. Afterwards rinse well with clean water. Mix in acid proof container, and be very careful with the acid. (see Precautions for acid cleaners).
Dark oxide from welding or heat treatment.	"Pickling Paste" or pickling solutions given on previous page.	Must be carefully rinsed and use care in handling (see Precautions for acid cleaners).
Scratches on polished (satin or brushed) finish.	Slight scratches - use impregnated nylon pads. Polish with polishing wheel dressed with iron-free abrasives for deeper scratches. Follow polish lines. Then clean with soap or detergent as for routine cleaning.	Do not use ordinary steel wool - iron particles can become embedded in stainless steel and cause further surface problems. Stainless steel and "Scotchbrite" scouring pads are satisfactory.



CONTACT INFO

5 Bremen Drive, Salisbury South 5106, SA.

Phone: **(08) 8281 1211**

Fax: **(08) 8281 7443**

Website: www.abindustries.com.au

E-mail: enquiries@abindustries.com.au

