



RB Cabinet Range

TECHNICAL DATA SHEET

The Ritherdon RB Cabinet Range was initially developed with the street lighting and highways industries in mind. However, their highly flexible and modular design means they are suitable as enclosures for protecting electrical and/or electronic equipment in the most inhospitable external environments. The smaller cabinets (RB460, RB600, RB800, RB1000) are fitted with a single door, whereas the larger cabinets (RB1250, RB1550) use two doors. All models are supplied with 2 x 8mm Tri-Key Camlocks. The cabinet roof is sloped down at 2 degrees away from the door. The RB Cabinet Range has been tested to BS EN 62208: 2011 and is CE certified according to the Low Voltage Directive 2006/95/EC (2016).



Figure 1 – Black Single Door RB600 Cabinet

The RB Cabinet range is available following standard sizes:

Table 1 - Product Range table showing dimensions and weight of each model

| Model | External Dimensions | | | Working Depth mm | Cable Opening | | Backboard Size | | Weight (+ Plinth) kg |
|--------|---------------------|----------|----------|------------------|---------------|----------|----------------|----------|----------------------|
| | Height mm | Width mm | Depth mm | | Width mm | Depth mm | Height mm | Width mm | |
| RB460 | 1125 | 460 | 260 | 239 | 310 | 180 | 930 | 405 | 32 (+ 6) |
| RB600 | 1125 | 600 | 330 | 308 | 450 | 250 | 930 | 545 | 41 (+ 6) |
| RB800 | 1125 | 800 | 380 | 358 | 650 | 300 | 930 | 745 | 56 (+ 6) |
| RB1000 | 1125 | 1000 | 380 | 358 | 850 | 300 | 930 | 945 | 62 (+ 9) |
| RB1250 | 1125 | 1250 | 430 | 408 | 1100 | 350 | 930 | 1195 | 85 (+ 12) |
| RB1550 | 1125 | 1550 | 430 | 408 | 1400 | 350 | 930 | 1495 | 95 (+ 13) |

Standard colours include Black, Dark Grey, Light Grey and Dark Green, and a natural finish is also available for models using 304 & 316 stainless steel. All models available in 4003, 304 and 316 Grade Stainless Steel.

Features and Accessories

- **IP24 Rating** – Models with ventilation louvres (standard) are protected against +12.5 mm solid objects and water splashing according to BS EN 60529:1992 + A2:2013.
- **IP46 Rating** – Models without ventilation louvres are protected against +1 mm solid objects and powerful water jets according to BS EN 60529:1992 + A2:2013.
- **IK10 Rating** – Can withstand impact energy 20J according to IEC 62262.
- Multiple lock options – Including Tri-Key Cam-Lock (standard), Pin-Hex Cam-Lock and 1333 Key Operated Cam-Lock for added security.
- Optional plinth – Can be installed on a matching plinth (350mm total height, buried 50mm above ground) or a suitable concrete base.
- Cable Entry – All models are open at the bottom for cable entry. Must be sealed with grout.
- 180° Door Opening – Allows for convenient and unobstructed access to equipment inside.
- Plywood Backboard – 12 mm backboard in each unit for mounting electrical equipment.
- Lifting Lugs – All models supplied with detachable lifting lugs.
- Optional Extras – Including shelves, document pockets, access panels, cable entry holes, 19" rack (except RB460), extra/filtered ventilation, cooling fans, light, tubular heater and consumer unit.

Testing

The Ritherdon RB Cabinet Range is covered by testing performed according to the criteria specified in BS EN 62208: 2011 “Empty Enclosures for Low-Voltage Switchgear and Controlgear Assemblies – General Requirements”. IP testing and all other tests were performed by Ritherdon.

Ingress Protection (IP) Testing

- IP Testing was initially performed on models with ventilation louvres in accordance with BS EN 60529:1992+A2:2013 to obtain a rating of IP24
- Further IP testing was carried out by Ritherdon on models without ventilation louvres using methods specified in BS EN 60529:1992+A2:2013 achieving a rating of IP46

Protection against external mechanical impacts (IK code)

- Done in conformity with IEC 62208 clause 9.7 and IEC 62262 achieving the highest rating IK10
- Three impacts applied on each exposed surface using a test hammer as described in IEC 60068-2-75 suitable for the dimensions of the enclosure
- Continued to provide IP code after test



Figure 2 – Natural Finished Double Door RB1250

Resistance to Corrosion

- Done in conformity with IEC 62208 clause 9.13.2.1 & 2, severity tests A and B.
- Tests corrosion resistance using damp heat cycling and salt mist cycling (IEC 60068-2-30 & 11)
- No presence of rust, enclosure retained mechanical integrity, seals not damaged and doors, hinges and locks continued to function without abnormal effect

Static Load Testing

- Done in conformity with IEC 62208 clause 9.4
- Ensures enclosure can support maximum permissible load

Axial Load Testing

- Done in conformity with IEC 62208 clause 9.6
- Ensures metal inserts can support the required load

Thermal Power Dissipation Capability

- Done in conformity with IEC 62208 clause 9.14
- Determined using method according to IEC/TR 60890



Figure 3 – Dark Green RB1250 with both doors open revealing door/body earthing

Please contact our technical team if you require a more detailed report of the testing or if you have any other questions and would like to discuss any aspect of this data sheet.