

The Ritherdon RMC Cabinet Range are our largest cabinets manufactured to a modular design. They are able to suit a wide variety of purposes, such as the housing of EV charging equipment, CT chambers, distribution equipment. 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. All models are supplied with a three-point locking system with an L handle, padlockable for added security (padlock not supplied). All models are supplied with a matching plinth as standard. The cabinet roof is sloped down at 2 degrees away from the door. The RMC Cabinet Range complies with BS EN 62208: 2011 and is CE certified according to the Low Voltage Directive 2006/95/EC (2016).



Figure 1 – Green RMC 1250

The RMC 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 (x2)		Backboard Size		Weight kg
	Height mm	Width mm	Depth mm		Width mm	Depth mm	Height mm	Width mm	
RMC1250	2000	1250	600	550	475	400	1770	1152	270
RMC1600	2000	1600	800	750	650	600	1770	1502	330
RMC2100	2000	2100	800	750	900	600	1770	2002	380

Standard colours include Black, Dark Grey, Light Grey and Dark Green. All models available in 4003, 304 and 316 Grade Stainless Steel. Weights include the corresponding plinths as these are never sold separately for RMC cabinets.

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.
- Three-point locking system – Padlockable L-Handle with 10mm shackle and shroud.
- Matching plinth – Always sold with a matching plinth (450mm 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.
- Door Stays – Keeps doors open to 90 degrees in windy conditions during maintenance.
- Plywood Backboard – 18 mm backboard in each unit for mounting electrical equipment.
- Lifting Lugs – All models supplied with detachable lifting lugs.
- Optional Extras – Including peaked roof, document pockets, access panels, cable entry holes, extra/filtered ventilation, cooling fans, light, tubular heater and consumer unit.

Testing

The Ritherdon RMC 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 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 – Open RMC1600 in white (non-standard colour)

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 – RMC 1250 Cabinet housing car charging equipment. EV charging station 150kW at Westgate Retail Park, Slough (Osprey Charging).

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