

**The Ritherdon RH Feeder Pillar** is a cabinet typically used to house electrical supplies to external equipment in transport infrastructure such as traffic lights and electric car charging points. The RH range features hinged doors flush with the body of the cabinet. The RH range is capable of resisting moderate forced entry and is supplied with a 12 mm plywood backboard for fitting electrical equipment. The height above ground for all models is 722 mm, and working depth is 150mm.

The RH range is made from 2 mm Stainless Steel in 4003, 304 or 316 grade and is available following standard sizes:

Table 1 - Dimensions and weight of Product Range

Model	External Dimensions			Backboard		Weight kg
	Height mm	Width mm	Depth mm	Height mm	Width mm	
RH300	1060	300	170	580	280	20
RH400	1060	400	170	580	380	23
RH500	1060	500	170	580	480	27



Figure 1 – RH300 Feeder Pillar

Standard colours include Black, Dark Grey, Light Grey and Dark Green, and a natural finish which is only available in 304 and 316 Stainless Steel (SS). RH pillars can be made to any colour.

The RH300 has been tested to BS EN 62208: 2011 and has been judged representative of all products in the RH range. The RH range is CE certified in accordance with the Low Voltage Directive 2006/95/EC (2016).

### Features and Accessories

- **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, Pin-Hex Cam-Lock and 1333 Key Operated Cam-Lock for added security
- Plywood Backboard – 12 mm backboard supplied with each unit for mounting electrical equipment
- Integral Root – Simple design allows for easy installation without need for a separate plinth
- Neoprene Gasket – Provides watertight seal on the door to protect internal electric equipment
- Earthing of Door – A length of wire provides earth bonding of the door to the body to increase safety
- Prewiring Service – We are able to supply and assemble any internal electrical equipment that may be required



Figure 2 – An RH Pillar in use

### **Testing**

The Ritherdon RH Feeder Pillar Range has been tested according to the criteria specified in BS EN 62208: 2011 “Empty Enclosures for Low-Voltage Switchgear and Controlgear Assemblies – General Requirements”. IP testing was carried out by SGS Baseefa Ltd. Further IP testing and all other tests were performed by Ritherdon. The RH300 was used for all tests and is considered representative of the RH range.

### **Ingress Protection (IP) Testing**

- IP testing was carried out by Ritherdon on models without ventilation louvres (as standard) 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

### **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 a calculation method according to IEC/TR 60890



*Figure 4 - RH500 opened showing earth bonding of door*

***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.***