



# Environmental Impact Statement & EOL Disposal Information

## Life Cycle Considerations for Ritherdon Enclosures

To demonstrate that life cycle has been considered from an environmental point of view when manufacturing our range of metal enclosures, the following considerations have been made:

- Use of sustainable recycled materials – 90% of the 4003 (1.4003/3CR12) grade stainless steel and 95% of the 304 & 316 (1.4301 & 1.4401) grades stainless steel used in our products are recycled material. This reduces the need to extract new raw materials which can produce a major environmental impact. The stainless steel we use is itself 100% recyclable, unlike other commonly used materials such as GRP which must be disposed to landfill.
- Efficient manufacturing processes – We are always looking for innovative ways to reduce waste and our carbon emissions related to energy consumption. In December 2022 we invested in new powder coating equipment which operates at a greater energy efficiency than our previous equipment whilst simultaneously recycling a much larger amount of over-sprayed powder, reducing the amount that must be disposed of.
- Design for durability – All of our stainless steel metalwork is guaranteed for 25 years and is designed to be resistant against corrosion, vandalism and adverse environmental conditions. This reduces the need to replace enclosures prematurely, which leads to increased waste and environmental impact.
- Easy to disassemble and recycle - This facilitates the separation and recovery of materials at the end of the enclosure's life cycle, reducing waste and conserving resources. See the "End of Life Disposal" guidelines at the end of this document for more information.
- Hazardous Materials – We minimise our use of hazardous materials identified by the RoHS Directive 2012 by introducing a limit on the amounts present in the electrical equipment we source. This includes heavy metals such as lead and mercury which can pose a risk to human health and the environment. No hazardous materials are used in our paint coatings.

By taking these steps, we aim to demonstrate that we are committed to manufacturing sustainable metal enclosures in a way that minimizes their environmental impact. Our enclosures are almost completely recyclable, they are manufactured in a way that minimises greenhouse gas emissions and they are built to last.



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## End of Life Disposal

- All materials shall be disposed of in accordance with the relevant EWC numbers stated below, and all applicable regulations regarding waste disposal.
- No items require incineration.
- All WEEE items should be disposed of within the Waste electrical and electronic equipment guidelines.
- The below list is intended to include all items that might be included in Ritherdon & Co. products, however if you identify and items not mentioned below, please contact us for further information.

| Metal<br>16 01 17<br>16 01 18 | Plastic/Rubber<br>20 01 39 | WEEE<br>16 02 14     | Label<br>20 03 01   | Cable<br>16 01 18 | Misc.<br>19 12 01<br>15 02 02<br>15 01 03 |
|-------------------------------|----------------------------|----------------------|---------------------|-------------------|---|
| Cabinet Doors                 | Rod guides                 | Heater               | Earth Label         | Earth Leads       | Carboard Box                              |
| Cam Locks                     | Consumer Unit              | Socket               | Cabinet id label    | 0.75 Blue         | Air filter                                |
| Door Rods                     | Contact Sensor             | Power bars           | Heater id label     | 0.75 Brown        | Wooden Backboard                          |
| Lock Adaptors                 | Screw Caps                 | Double Pole Isolator | Door warning label  | 2.5 Blue          |   |
| Hinge Pins                    | EPDM Gasket                | MCB                  | BS 1363 label       | 2.5 Brown         |   |
| Circlips                      | Crimp Terminal             | RCB                  | Elec warning label  | 2.5 G/Y           |   |
| Nyloc Nuts (SS / BZP)         | Insulated Sleeve           | RCBO                 | Consumer unit label | 6.0 G/Y           |   |
| Screws (SS / BZP)             | Gland 20mm                 |                      | Incoming supply     | 6.0 Blue          |   |
| Washers (SS / BZP)            | Gland 25mm                 |                      | Isolate label       | 6.0 Brown         |   |
| Pop Rivet                     | Neutral Rail               |                      | Protected neutral   | 10.0 G/Y          |   |
| Lifting Lugs                  | Earth Terminal             |                      | Unprotected Neutral | 10.0 Blue         |   |
| Bolts (SS / BZP)              | Nylon Bush                 |                      |                     | 10.0 Brown        |   |
| Nuts (SS / BZP)               |                            |                      |                     |                   |   |
| Door Stay Brackets            |                            |                      |                     |                   |   |
| Earth Block (Brass)           |                            |                      |                     |                   |   |
| Din Rail                      |                            |                      |                     |                   |   |
| Self-Tapping Screws           |                            |                      |                     |                   |   |
| Cabinet Shell                 |                            |                      |                     |                   |   |