



June 2023 electronic enclosures newsletter

If you need high impact resistance and IP68 sealing: our [heavy-duty IP68 sealed 1590Z diecast family](#) is for you.

Dear April,

If your electronic or electrical equipment requires protection when installed in environments where dust and water are present and physical impact is a concern, our ultra-rugged thick wall 1590Z IP68 sealed die-cast aluminium enclosures are the perfect enclosure for your project. We continue to expand the family with new sizes, there are now 24 size options available. The latest addition is the 1590Z137, measuring 200mm x 80mm x 60mm.

The 1590Z family is an immensely strong enclosure suitable for installation in the most demanding environments. All 24 sizes offer excellent EMC capability and corrosion resistance, enabling the 1590Z to protect the housed electronic, electrical or electromechanical equipment wherever they are installed in an industrial environment. Sealing to IP68 is achieved through a tongue and groove interface between the lid and base with a user-replaceable one-piece silicone rubber gasket.



Key features of the 1590Z

- 24 sizes in the family from 50mm x 45mm x 30mm to 400mm x 230mm x 180mm
- All sizes are available in a natural finish or powder coated inside and out in textured black or smooth grey RAL7001
- All sizes except the smallest 50mm x 45mm x 30mm 1590Z060 have an IEC 62262 impact rating of IK08, confirming protection against 5 Joules of impact by a 25mm diameter striking element, the equivalent to the impact of a 1.7kg mass dropped from 300mm above the impacted surface
- UL and cUL Listed
- Certified to NEMA Type 4, 4X, 6, 6P and rated IP68 to IEC 60529
- Wall thicknesses vary from 3.0mm to 5.2mm depending on the overall size of the enclosure
- IP68 sealing with a user-replaceable one-piece silicone rubber gasket rated for use from -40°C to +150°C
- The majority of sizes have a mounting shelf in the base, enabling DIN rails or PCBs to be mounted directly into the unit without using stand-offs to provide clearance
- The majority of sizes have multiple holes in the base and lid to accept 6mm ground screws
- 16 of the sizes are available with an optional 1.6mm galvanized steel inner panel
- Captive stainless steel machine screws outside the sealed area secure the lid into tapped holes in the base, allowing repeated access without degrading the sealing
- Easy to secure to any surface using blind holes outside the sealed area

Standard enclosures are great, but they have to be configured for your application.

Our in-house modification services brings your project to market on time and on budget.

By definition, all standard enclosures will need to be configured to suit a specific application. We have many thousands of standard enclosure designs and sizes and we are able to offer modifications for orders as low as 25 units. Using us, the original manufacturer, eliminates scrap and design interpretation of your requirements.

We offer

- **Precision CNC Milling of holes, cut-outs, pockets, tapping and countersinking.**
- **UV digital and silk screen printing.**
- **Engraving of logos and text in both plastic and metal.**
- **Pressed in hardware – nuts, studs and standoffs.**
- **Custom moulding colours. All ABS, flame retardant ABS and polycarbonate enclosures can be moulded in any custom colour subject to a minimum order quantity.**
- **Custom painted colours - powder coating in either smooth or textured finish.**
- **Custom anodising colours for extruded enclosures subject to a minimum order quantity.**

To view a video showing Hammond's customisation capabilities, [click here](#).

2023 exhibitions

We will be present at the following exhibitions during the year.

[Engineering Design Show](#), 11 and 12 October, Coventry UK.

[SPS, Smart Production Solutions](#), 14 – 16 November, Nuremberg Germany.

Our current shortform catalogues

Digital versions of our electronics enclosures shortforms in English and German can be downloaded from [here \(English\)](#) and [here \(German\)](#) as 3MB PDFs. If you would like us to send you a printed hard copy, please email uksales@hammfg.com or eusales@hammfg.com

Also available is [our industrial enclosures shortform](#). Featuring sealing up to IP68 and including several new polycarbonate, GRP and stainless steel families, the catalogue pulls together our key UK-stocked products suitable for use in harsh and rugged environments. If you would like to see the catalogue of our complete range of industrial / electrical product families, [click here](#). Follow the link to download the entire catalogue or the product sections that are of interest. All products are available from Basingstoke on short lead times from our Canadian manufacturing facilities.

Contact us

To contact our technical sales team about the enclosure requirements for your project, call +44 1256 812812, mail us at uksales@hammfg.com or eusales@hammfg.com or click on the link at the bottom of the page to use Live Chat on [our web site](#). To help you in specifying your requirements you can download PDF, AutoCAD .dxf and 3D Solid Model .igs and .stp files for all our products from [our web site](#).