

1 MODULAR SE SYSTEM OVERVIEW



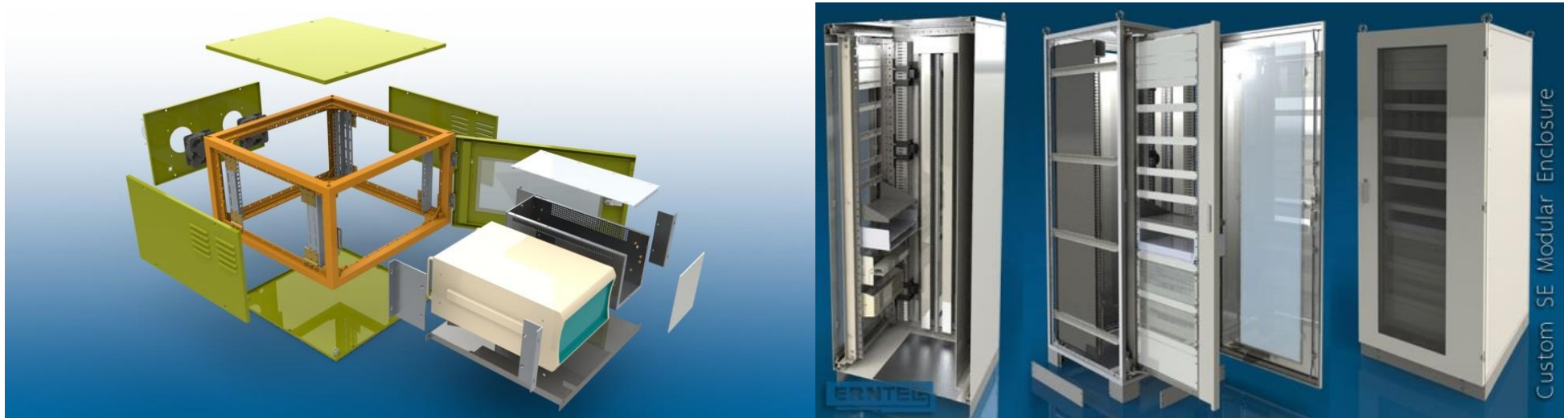
Dimensions	DIN 41488, IEC 60297-1 and 2, IEC 60917
Grid Dimension	25mm grid
Material	Profiles – galvanised steel
	Doors and panels – zinc seal steel
	Gussets and internal – chromated steel
	Corner Connector – aluminium
Paint Finish	Powder coat
Protection Class	DIN 40050, IEC 144
Ingress Protection	IP 40 – Cubicles without seals
	IP 54 – Cubicles with seal
Earthing	Panels – earthed to frame via screw with unique cutting ring
	Internal Fittings – earthed via self-threading screws
	Door – earthed via earth strap

The SE cubicle system together with the custom panels and accessories offers full flexibility to satisfy many large enclosure requirements now, and into the future.

The modular nature allows us to add-to, change or reconstruct as needs evolve. Accessory parts such as shelves, filters, fans, etc. can be fitted at any time.

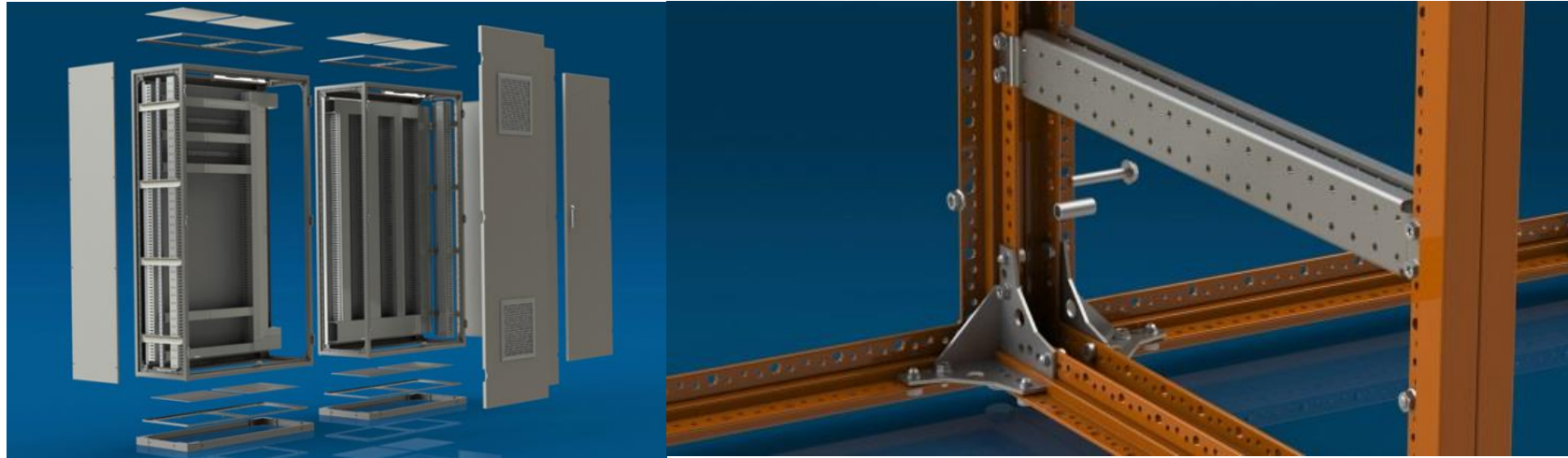
The cubicle is ready to be fitted with seals for protection against foreign bodies (up to IP54) such as dust and water, and can be setup with gaskets for electro-magnetic field disturbance (EMI/RFI).

2 CUSTOMISING AND ADDING VALUE TO YOUR SOLUTION



- The SE Modular system can be customised for a wide range of applications. We are only limited by our imagination for solutions.
- ERNTEC is a sheet metal manufacturer with facilities in place to make Doors, side panels, roof panels, gland plates, gear panel, plinths, u-struts, equipment mounting rails, etc.
- We have a large range of standard powder coats & finishes to choose from.
- IP seals, RFI-shielding, Vibration mounts can also be optioned and in addition we can assist with standards testing.
- Venting, heating and cooling with thermostat switches can be included for thermally sensitive equipment and we can assist with heat load calculations
- ERNTEC modular systems are delivered fully assembled therefore all cladding, fit-out panels, mounting and accessories can delivered on the frame ready for commissioning
- Special crates and packing can be made to ship your cubicle

3 CONSTRUCTION OVERVIEW



- SE Cubicles use unique screw fasteners and consists of a frame, the panelling and the individual parts.
- The frame consists of galvanised steel profiles interconnected by a corner connectors and fishplates (gussets).
- The profiles have either one or two mounting flanges with the system perforations, and an additional row of holes for securing the panelling.
- The profiles can be mounted as standard in all three coordinates .
- When a door is used, profiles with only one flange can be fitted to increase the free installation dimensions of the cubicle.
- Most doors are of symmetrical design and can therefore be hinged either at the left or right.
Note: Doors with padlockable handles are not symmetrical due to the handle cut-outs.
- As standard practice all external edges on cladding panels are folded, leaving a smooth edge and neat finish, and they are secured to the frame by means of a unique thread forming screw. A cutting ring in the head of the screw facilitates earthing of panel to frame. No need for an earth strap.
- Removable parts, for example the 19" rack support, the hinged frames, u-struts are easily mounted in the system grid by means of self-threading screws.