

Equipotential Bonding Busbar - Type 8 (IET)

As part of a safe medical electrical installation, the Starkstrom Equipotential Bonding Busbar (EBB - Type 8) is fundamental in creating an equipotential earth bonded zone and helping to prevent significant touch voltages within the patient environment. It is suitable for most Group 2 / Category 5 medical locations, particularly ITU's, Operating Rooms, Recovery and other high care areas.

It is a requirement of HTM06-1, that any Group 2 / Category 4 or 5 medical location, has an Equipotential Bonding Busbar (EBB) provided, either in or near the medical location, mounted in an accessible position, typically between 1.0m and 1.8m above FFL.

It is essential to keep earth cable runs as short as possible in order to meet the IET requirement of <0.2 Ohm, from any two extraneous conductive points. Keeping individual cable runs to <0.1 Ohm will help to achieve this.

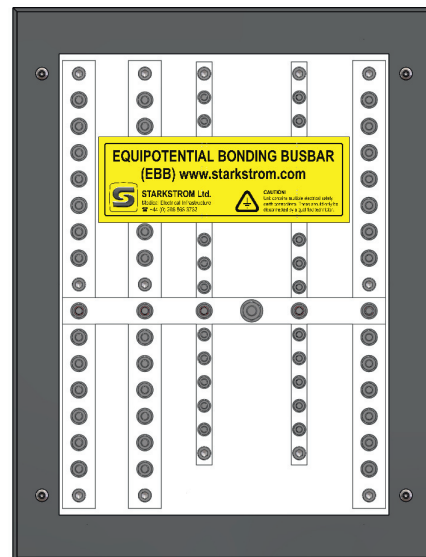
Any exposed conductive surface within the medical location should be connected to the EBB. These include, but are not limited too, metal sinks and work surfaces, water pipes, drug cupboards, ceiling mounted hardware incl. ceiling grid, conduits, trunking and cable tray.

This means a maximum cable run of approx. 30m using 6.0mm earth cable, and approx. 21m if using 4.0mm cable (using 10.0mm earth cable is not practical as it does not generally fit into socket outlet terminals). The cable length, is the total length of run, as run through the containment and walls, and not measured directly, line of sight, from the EBB.

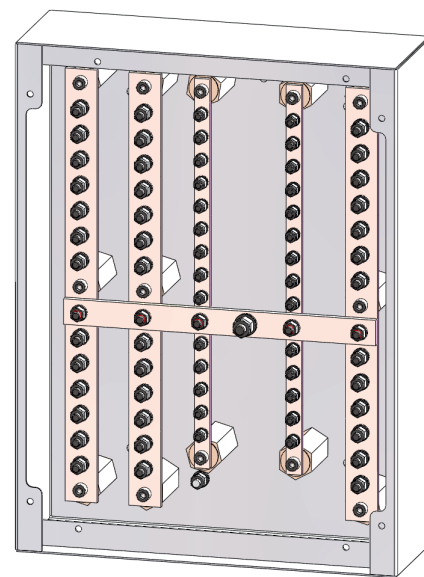
All earth connections to the EBB must be by means of a dedicated cable. Earthing by means of trunking, cable tray or cable screens, is not acceptable.

Products are also available which are more suited to installations in line with MEIGaN (ERB - Type 7) and Group 1 / Category 4 areas (EBB/ERB - Type 0).

Typical earthing drawings for a variety of medical areas, to both IET and MEIGaN (withdrawn) standards, are available on request.



EBB fitted with label, and front cover



Internal view, covers removed

Equipotential Bonding Busbar - Type 8 EBB (IET)			
Nominal Rating	350A	Surface Size (h x w x d)	400 x 300 x 100
Main Bar CSA	100mm ²	Flush Size (h x w x d)	420 x 320 x 100
Main Incomer	1 x M8	Weight	7Kg
Earth Connections	39 x M6 28 x M5	Cover Options	Flush or Surface
		Orientation	Portrait or Landscape
Standards	BS7671, BS EN 61439-1, HTM06-01, IEC 60364-7-710		