

EARTH MAT AND TAILS

11. Roof earthing strap of at least 25 x 3mm annealed flap copper to be run on outside surface of brick building wall to the roof and joined to metal roof sheeting with at least M8 bolts.
12. Earth connections to sheet metal clad building sidewalls can be done on inside as detailed on Sheet C12.
13. Where connection is made to painted steelwork the paint shall be removed over a minimum area to allow good contact between surfaces. Surfaces shall be coated with petroleum jelly before bolting. After bolting any scraped area not covered by the copper connection shall be made good by using the original types and colours of paints.
14. Where connection is made to galvanised steelwork the surface shall be coated with petroleum jelly prior to bolting.
15. Flat copper strap is to be secured to Detail "A" on Sheet C10, at all corners, intersections and at not more than 1000mm intervals where the strap runs across vertical or horizontal flat surfaces of concrete plinths or brickwalls.
16. For earth strap arrangement in cable trenches see Detail "B" on Sheet C10.
For earth mat portions run along cable racking, separate instructions will be issued.
17. Where flat copper earth straps have to run on top of the finished floor surface across walkways the strap is to be screwed to the floor as shown on Sheet C10 Detail "A".
18. Earthtails at foundations where no equipment steelwork is fitted are to be clamped together (Sheet C6)
19. Connections of 10mm dia Cu rod onto mild steel earthtails provided by the civil contractor for bonding reinforcing steel in columns and floors are to be done by an exothermic welding process (Cadweld, Exoweld or equivalent) . Refer to detail Sheet C11.
20. Electrical apparatus mounted on any structure shall be earthed in accordance with the apparatus sheets in this standard.

THE C.A.D. REFERENCE NUMBER IS:
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<h1 style="margin: 0;">EARTHING STANDARDS</h1>									<h2 style="margin: 0;">0.54/393</h2>			
									<h3 style="margin: 0;">SHEET C3</h3>			

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