

N25 PERMANENT ACCESS AND SAFETY EQUIPMENT

To be read with Preliminaries/General conditions.

TYPE (S) OF SYSTEM/EQUIPMENT

- 220 SINGLE POINT ANCHORAGE DEVICE (S) FOR LANYARD/ FALL ARREST SYSTEM:
- equipment.
- for purpose.
- number and the date of installation.
- of BS EN 365.
- To BS EN 795.
 - Type: Single Point Anchorage Device for personnel protective
 - Material/Finish: Stainless Steel or as recommended by the supplier
 - Location(s): As indicated on Roof Plan.
 - Install in accordance with BS 7883.
 - Provide with each anchor, for lanyard/ fall arrest system:
 - A backing disc giving the manufacturer's name and telephone
 - A certificate of compliance with testing and examination requirements
- 225 Secured, lockable and guarded access ladder to roof.
- Supplier – Contractors choice
- for purpose.
- number and the date of installation.
- of BS EN 365.
- Material/Finish: Stainless Steel or as recommended by the supplier
 - Install in accordance with BS 7883.
 - Provide with each anchor:
 - A backing disc giving the manufacturer's name and telephone
 - A certificate of compliance with testing and examination requirements

GENERAL REQUIREMENTS

- 310 INFORMATION TO BE PROVIDED WITH TENDER:
- Submit to the CA the following particulars:
- General arrangement drawing(s) at suitable scales showing the proposed layout of access/safety equipment.
 - Overall sizes and weights of all major items of equipment.
 - Location, direction and magnitude of all significant loads imposed on the building structure/fabric by the equipment.
 - Schedule of builder's work, with drawings as necessary, showing extent and details of all work associated with the installation for which the equipment manufacturer/supplier is not contractually responsible.
 - Schedule of special provisions and special attendance by others.

DESIGN/PERFORMANCE REQUIREMENTS

- 430 SAFETY:
- The equipment as installed must have no irregularities/ projections capable of inflicting personal injury. Finished surfaces and edges of all accessible parts must be regular and smooth.
- 440 DESIGN LIFE of the access/safety system must be not less than 20 years. Submit to the CA a schedule for maintenance and for replacement of components.

460 ASSESSMENT/TESTING OF FIXING POINTS FOR ANCHOR
DEVICES:

- For fixings in steelwork or timber, the design and installation should be verified by calculation by a qualified engineer to be capable of sustaining the relevant static and dynamic test forces specified in BS EN 795, clause 4.3.
- For fixings in other materials the installer must verify the suitability by carrying out a test in a sample of the material. The sample must be capable of sustaining the relevant static and dynamic test forces specified in BS EN 795, clause 4.3. Thereafter, each structural anchor installed in that material must be subjected to an axial pull out force of 5 kN to confirm the soundness of the fixing. The structural anchor must sustain the force for a minimum of 15 seconds.

FABRICATION, ASSEMBLY AND INSTALLATION

510 FABRICATION AND ASSEMBLY GENERALLY:

- Carry out as much machine cutting, drilling and assembly as possible in the workshop. Obtain approval for any reassembly on site.
- Isolate dissimilar metal surfaces of assembly components/supports/fixings to prevent electrolytic corrosion.

520 PROTECTION AND HANDLING:

- Protect all assembled items against damage, corrosion and disfigurement during handling, installation and subsequent site operations.
- Do not deliver to site any components or assemblies that cannot be installed immediately or unloaded into a suitable well protected storage area.

530 SUITABILITY OF STRUCTURE/FABRIC:

Before commencing installation carry out a visual and geometrical survey of the supporting building structure and fabric. Report immediately to the CA if structure/fabric will not allow the required accuracy or security of erection/ fixing.

540 MECHANICAL FIXINGS: Unless otherwise recommended by equipment manufacturer:

- Connecting bolts and other fixings fully accessible for inspection to be mild steel hot dip galvanized to BS 7371:Part 6. Nuts to be tapped after galvanizing.
- Cast-in anchors and other fixings not accessible for routine inspection to be austenitic stainless steel, grade 1.4401 (316) to BS EN 10088:Part 1.

550 FIXINGS, INSERTS AND BOLTS for building in to be supplied by equipment manufacturer/supplier.

570 FIXING ANCHOR INSTALLATION:

- Site drill or cut into structure/fabric only in approved locations.
- Distance between all fixing devices and edges of supporting material to be not less than recommended by fixing manufacturer.

640 MARKING OF ANCHOR DEVICES:

- Provide on or near each anchor device a label or other clear marking giving:
 - Manufacturer's name and telephone number.
 - Serial number and year of manufacture of device.
 - Maximum number of personnel that may be attached to the device at any one time.
 - Requirements for energy absorbers, ground clearance, etc.
 - Where an anchor device is intended solely for use with personal protective equipment, this restriction must be indicated by pictogram or other suitable marking on or near the device.

820 OPERATING INSTRUCTIONS: Where appropriate, ensure that equipment and accessories are marked in such a way that it is possible to identify the correct mode of operation for their safe use.

830 OPERATING AND MAINTENANCE MANUAL: Before Practical Completion provide for inclusion in the Building Manual printed instructions and recommended procedures to be established by the Employer for operating and routinely maintaining the equipment. Provide diagrams where appropriate. The information must include:

- Instructions for assembling/erecting equipment for use.
- Comprehensive operating instructions, including safety and emergency procedures, for all motions including upward, downward and lateral travel, and slew.
- Servicing and planned maintenance procedures, including assembly instructions where maintenance necessitates dismantling of machinery parts.
- List of replacement parts, with references.
- Recommended procedures for testing equipment.

840 AS INSTALLED DRAWINGS: After commissioning/testing of the equipment and before Practical Completion provide drawings for inclusion in the Building Manual. Drawings must give:

- Contractor's name and contract number.
- Location and date of installation.
- Manufacturer's name, model and type number(s).
- General arrangement of the complete installation.
- Electrical circuit wiring diagrams complete with details and ratings of all items of equipment.