

## **N25 PERMANENT ACCESS AND SAFETY EQUIPMENT**

To be read with Preliminaries/General conditions.

### **TYPE(S) OF SYSTEM/EQUIPMENT**

#### **N25/210 GUIDED TYPE FALL ARREST SYSTEM**

Location: [Insert location here]

Manufacturer and reference:

**XSPlatforms (headquarters)**  
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Ref: 210 Guided Type Fall Arrest System; XSLinked overhead (ceiling) system.

- XSPlatforms' XSLinked horizontal lifeline system for ceilings
- System to be CE marked and hold EC Declarations of Conformity.
- Anchorage device: End anchors (installed on XSBase plate wall/ceiling support plates) to be made from stainless steel mounted by use of M12 thread ends or mechanical anchor. Typical end anchor loadings are 10 – 15kN, but can be further controlled through the spacing of intermediate brackets. System design must be verified by the XSPlatforms' ODIN calculation software.  
System support brackets made from stainless steel AISI 304/316 can be fixed into virtually to any type of concrete or steel structure.  
The intermediate and edge brackets use a single M12 fixing thread/bolt, and are usually spaced approximately 8 to 12 metres (26 feet 2<sup>61/64</sup> to 39 feet 4<sup>7/16</sup> inches) apart, depending on system design. The slider passes freely over the intermediate or corner supports, keeping the user attached to the system at all times.
- To enter or exit the system an access point (XSPoint) needs to be used. Due to this unique system the user cannot disconnect from the lifeline in an unsafe position or location.
- Overall system length: [XX] metres fixed to [insert type of structure].
- System installed to provide access to [insert needed work area].
- Anchor support spacing: Between 8 and 12 m (26 feet 2<sup>61/64</sup> and 39 feet 4<sup>7/16</sup> inches) - as designed by the XSPlatforms approved installer to meet the requirements of the XSPlatforms' ODIN calculation software.
- Accessories/other requirements:
  - [Insert other required XSLinked ceiling components within the system].
- System access to be from [insert access point (where does the user come onto the system)]
- System to be installed in accordance with EN 795 (or BS 7883) by the system manufacturer or a (by XSPlatforms) trained & verified installer.
- After completion of the installation, the system needs to be inspected and fully tested and a test certificate covering a period of 12 months has to be issued. Notice showing a date and period of validity of the test certificate to be attached to the system at each access (end) point.

- [XX] complete sets of Personal Protective Equipment (PPE) to be supplied with the system. Each set to comprise:
  - 1 x full-body harness – (type TBD)
  - 1 x removable overhead slider – article number 12860
  - 1 x energy absorbing lanyard (length TBD)
- All to be supplied in a suitable PPE storage bag.
- Structural anchors: Type recommended by the system manufacturer to suit the structure/fabric into which the anchors will be fixed.

## **GENERAL REQUIREMENTS**

### **N25/320 INFORMATION TO BE PROVIDED AFTER ACCEPTANCE OF TENDER:**

Submit to the CA within 2 weeks of appointment the following particulars:

- Detailed drawings to fully describe fabrication and installation.
- A detailed fabrication, installation and testing programme compliant with the main contract master programme.
- Proposed fixing anchor details relevant to the structural design and construction of the building.

## **DESIGN/PERFORMANCE REQUIREMENTS**

### **N25/430 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.

### **N25/460 ASSESSMENT/TESTING OF FIXING POINTS FOR ANCHOR DEVICES:**

Fixed in accordance with EN 795 standard.

### **N25/510 FABRICATION AND ASSEMBLY GENERALLY:**

All fabrication is carried out in the workshop. Limited assembly and drilling of the ceiling is required on site. Obtain approval for any reassembly on site. Dissimilar metal surfaces will be isolated to prevent electrolytic corrosion.

### **N25/520 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.

### **N25/530 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.

**N25/550          FIXINGS, INSERTS AND BOLTS**

All mechanicals are to be supplied by XSPlatforms' installer.

**N/25/560          FIXINGS FOR SECURING EQUIPMENT**

Must be capable of adequate three dimensional adjustment to accommodate building structure/fabric irregularities.

**N25/570          FIXING ANCHOR INSTALLATION:**

Site drill into structure/fabric only at the approved locations.  
Distance between all anchor devices and edges of supporting material to be not less than recommended by XSPlatforms.

**N25/610          IDENTIFICATION AND REGISTRATION LABEL(S) FOR GUIDED FALL ARREST SYSTEM**

- Provide and fix to each system a permanent label giving:
  - Name and/or reference code of the site and system.
  - Maximum number of users to be attached at any time.
  - Date of installation or last inspection.
  - PPE requirements.
  - Whether the system is an fall arrest or restraint system.
  - Label(s) to be located in positions such that they can be easily read.

**N25/640          MARKING OF ANCHOR DEVICES:**

- Provide on or near each anchor device a label or clear marking giving:
  - Maximum number of personnel that may be attached to the device at any one time.
  - Requirements for (personal) energy absorbers, ground clearance, etc.
  - Where an anchor device is installed solely for use with PPE, this restriction must be indicated by a pictogram or other suitable marking on or near the anchor.

**N25/820          OPERATING INSTRUCTIONS:**

One complete set of XSLinked ceiling (user/installation) instructions to be supplied with the system by the installer.

**N25/830          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 the equipment for use.
- Comprehensive operating instructions, including safety and emergency (rescue) 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 the system and equipment.