

SPRA COMPONENT QUALITY STANDARD 09

FALL PROTECTION ANCHOR DEVICES

WHAT ARE SPRA COMPONENT QUALITY STANDARDS?

SPRA Component Quality Standards set a benchmark of performance for products used in single ply roofing systems. They are a vital aid to specification and define the minimum technical standard for membership of the Association. All SPRA Component Quality Standards are available to download from www.spra.co.uk.

PRODUCT DESCRIPTION

Top-fixed anchor systems employing single point anchor devices or horizontal, flexible anchor lines – including the mobile anchor point.

TYPICAL APPLICATIONS

Flat roofs (warm, cold and inverted) and pitched roofs on new or refurbished buildings.

DESIGN REQUIREMENTS

Where a product is comprised of a baseplate to which single ply membrane is intended to be welded directly, a continuous flat surface not less than 50mm width should be available to facilitate the welding process.

The heads of bolts/fasteners used to secure the anchor to the roof deck should be recessed or otherwise suitably protected such that they do not pose a risk of puncture to the single ply membrane due to foot traffic.

If the product is designed to deploy by inclination or movement of the post assembly, the product should be designed such that in the event of deployment the waterproof integrity of the roof is not affected.

ADVISORY COMMITTEE FOR ROOFSAFETY (ACR)

The fall protection manufacturer shall demonstrate compliance with the ACR[M]002:2015 *Testing of roof anchors on roof systems* Materials Standard through submission of test reports in accordance with Clause 7.

SPRA MEMBERSHIP CRITERIA

In addition to its criteria for membership, SPRA recommends that manufacturers of fall protection equipment should be members of the *British Safety Industry Federation* (BSIF) or *Work At Height Safety Association* (WAHSA) and contribute positively and actively to the development of British and European Standards.

SINGLE PLY ROOFING ASSOCIATION

Unit 26 Coney Green Business Centre, Wingfield View, Clay Cross, Derbyshire, S45 9JW

BS EN 795:2012 Personal fall protection equipment. Anchor devices

Scope: Specifically single-user anchor devices.

Design: U-bolt clamps shall not be used to form cable terminations.

Test Conditions

1. In recognition of foreseeable misuse, anchor devices intended for fall restraint must be tested for fall arrest.
2. Anchor devices should be tested using construction fixing(s) (e.g. clamps) and construction material(s) (e.g. a roofing system) as recommended in the information provided by the fall protection manufacturer.

Requirements

1. Minimum static strength—
Metallic anchor devices: 12kN.
Non-metallic anchor devices: 18kN (unless evidence of durability is provided).
2. Type C Horizontal Flexible Anchor Lines must be tested in the longest and shortest spans; at intermediate and corner brackets; at a joint in the line; and at an entry/exit line fitting.

▼ Type C Horizontal Flexible Anchor Line as per BS EN 795:2012



PD CEN/TS 16415:2013 Personal fall protection equipment. Anchor devices.

Recommendations for anchor devices for use by more than one person simultaneously

Scope: Anchor devices shall be compliant with BS EN 795:2012.

Design: As BS EN 795:2012.

Test Conditions

1. As BS EN 795:2012. Multi-user devices shall be tested to simulate a minimum of two users (total 200kg) falling simultaneously. Additional users (three or more) are tested sequentially using 100kg for each additional user.
2. As BS EN 795:2012.

Requirements

1. Static strength example for three users—
Metallic anchors: 12kN + 1kN + 1kN = 14kN.
Non-metallic anchors: 18kN + 1kN + 1kN = 20kN.
2. As BS EN 795:2012.

DECLARATION OF CONFORMITY

The fall protection manufacturer shall demonstrate compliance with the Standard and Technical Specification (see table, above) via the publication of a Declaration of Conformity for the anchor device that includes the Standard to which it is tested; the Approved/Notified Body that conducted the test; the test report number/reference; the quality management system in operation; and the signature of an authorised representative.

SPRA ASSOCIATE MEMBERS

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