

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 membrane systems. They are a vital aid to specification and define the minimum technical standard for membership of the Association. All SPRA CQS are available by download from www.spra.co.uk

PRODUCT DESCRIPTION

Top fixed anchor systems employing single point anchor devices or horizontal flexible anchor line including the mobile anchor point.

TYPICAL APPLICATIONS

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

EUROPEAN STANDARDS AND TECHNICAL SPECIFICATIONS	
EN 795:2012 Personal fall protection equipment – Anchor devices.	CEN/TS 16415:2013 Personal fall protection equipment. Anchor devices. Recommendations for anchor devices for use by more than one person simultaneously.
Scope: specifically single-user anchor devices.	Anchor devices must be compliant with EN 795: 2012.
Design: U-Bolt clamps shall not be used to form cable terminations.	As EN 795:2012
Test conditions: 1. In recognition of foreseeable misuse, anchor devices intended for fall restraint must be tested for fall arrest. 2. Anchor device shall be tested using construction fixing(s) (e.g. clamp) and construction material(s) (e.g. a roofing system) as recommended in the information provided by the Fall Protection manufacturer.	1. As EN 795:2012. Multi-user devices must 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 EN 795:2012
Requirements: 1. Minimum Static strength: <ul style="list-style-type: none"> • Metallic anchor devices 12kN (previously 10kN) • Non-metallic anchor devices 18kN* (previously 10kN). *unless evidence of durability is provided. 2. Horizontal flexible anchor line: requirements for testing a Type C horizontal flexible anchor line include the requirements to test in the longest and shortest spans, at intermediate and corner brackets, at a joint in the line and at an entry/exit line fitting.	Static strength example for three users; <ul style="list-style-type: none"> • Metallic anchors = 12kN + 1kN + 1kN = 14kN • Non-metallic anchors = 18kN + 1kN + 1kN = 20kN As EN 795:2012
DECLARATION OF CONFORMITY	
The fall protection manufacturer shall demonstrate compliance with the above Standard and Technical Specification via the publication of a Declaration of Conformity for the anchor device that includes (i) The standard to which it is tested; (ii) The notified body that conducted the test; (iii) The test report number / reference.	

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 used to secure the anchor to the roof deck should be recessed 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 ROOFWORK - ACR ['Magenta'] 002:2009 - MATERIAL STANDARD
The fall protection manufacturer shall demonstrate compliance with the above Material Standard through submission of test reports in accordance with Clause 8 of the Standard.

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SPRA MEMBERSHIP CRITERIA

In addition to its Criteria for Membership, SPRA recommends that manufacturers of fall protection equipment should:

- Be members of the Work At Height Safety Association, (WAHSA) which was formed in 2005 www.wahsa.co.uk
- Contribute positively and actively to the development of British and European Standards.

SPRA MEMBERS IN THIS PRODUCT CATEGORY

Capital Safety Ltd, 5a Merse Road, North Moons Moat, Redditch, Worcestershire B98 9HL
(www.capitalsafety.com) Tel: 01527 548 000

Kingspan Limited, Greenfield Business Park no.2 Holywell, Flintshire, CH8 7GJ,
(www.kingspanpanels.com) Tel: 01352 716100

Latchways plc, Hopton Park, Devizes SN10 2JP
(www.latchways.com) Tel: 01380 732700