To be MSA Latchways Constant Force® post system as manufactured by MSA Safety, Hopton Park, Devizes, Wiltshire, SN10 2JP, United Kingdom. Tel: +44 (0)1380 732700 Fax: +44 (0)1380 732772. E-mail: *fallprotection@msasafety.com* Web: www.msasafety.com to ISO 9001:2008 and ISO 14001:2004. Refer to drawings for roof type and system configuration.

## Product quality

Baseplate and body manufactured from coated aluminium with electro polished 316 grade stainless steel dome. The internal coil, control mechanism and other elements to be manufactured from 316 grade stainless steel.

### Standards

- AS/NZS 5532:2013 Manufacturing requirements for single point anchor device used for harness-based work at height.
- AS/NZS 1891.4:2009 Industrial fall-arrest systems and devices, part 4: Selection, use and maintenance.
  Key requirements:
- AS/NZS 5532:2013 Section 5.1. Single point anchors may be either rated for limited freefall arrest or fall arrest. Limited freefall arrest = freefall< 600 mm. Fall arrest = freefall > 600 mm.

  Minimum capacity for limited freefall arrest 1 user shall be 12 kN, 2 users shall be 18 kN.
  Minimum capacity for freefall arrest 1 user shall be 15 kN, 2 users shall be 21 kN.

- AS/NZS 1891.4:2009 Section 3.1.2 table 3.1 & section 6.2.4. Horizontal lifelines, the general requirements for anchorages set out in clause 3.1.2 will apply, however, the anchorage strength shall be as set out in the manufacturer's instructions or in the prescribed configuration tables.

- The energy absorbing mechanism incorporated into each Type 2 Constant Force post will limit the force in the event of a 2 user free fall on the system to 6.5 kN.. By applying a safety factor of 2.0, Latchways recommend that the MSA Latchways horizontal lifeline system may be fitted to roof structures with a capacity ≥13 kN. using the Type 2 Constant Force post.

- MSA Latchways Constant force horizontal lifeline systems must be installed in accordance with the Latchways installation instructions by MSA's Latchways registered installers.

Furthermore, all MSA Latchways Constant Force posts are fully compliant with both of the following;

- EN 795:2012 (Type A & C) Personal fall protection - Anchor devices one user.
  Evidenced by a Declaration of Conformity detailing the product, the European Standard, name of the independent Notified Body and date.

- CEN/TS 16415:2013 (Type A & C) Personal fall protection equipment - Anchor devices - Recommendations for anchor devices for use by more than one person simultaneously.
  Evidenced by a Declaration of Conformity detailing the product, the European Standard, name of the independent Notified Body and date.

### Constant Force post energy absorption and load control

Each post (either the Type 1 (10kN) or Type 2 (6kN) will contain a stainless-steel energy absorbing coil and mechanism that enables the coil and post body assembly to deploy in a predictable manner, in any direction and at a controlled rate.

Deployment of an anchor device(s) shall occur without damage / loss of integrity of the roof and overall water tightness.

Each post will be capable of absorbing 6000 Joules (J) of energy whilst limiting the load transferred to the roof to 6-10 kN (mean). Each post will be able to absorb the energy of two/three users (300 kg) falling simultaneously in any direction.

**Number of users**

The system will be suitable for unrestricted access by up to three users (dependant on the type of CFP used) at any one time and at any point along the length of the system including between two posts.

**Maximum span between posts**

The maximum span between posts shall be 10m.

**External finish**

The combination of the coating applied to the post elements will be compliant to EN 12206-1:2004 and have been tested to the following methods with the specified results:

1. 1,000 hours of neutral salt spray according to ASTM D1186, method B without any signs of corrosion, coating separation nor reduction in sheen.

2. 1,000 hours of acetic acid salt spray according to ISO 2360:2003 without any signs of corrosion in any finishes.

**System labelling**

Labelled according to EN 365:2004 General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging.

**Wire rope**

To be Ø 8mm 7x7 316 grade stainless steel wire rope with a 38 kN minimum breaking load.

**Cable termination**

Swaged termination manufactured from 17/4 PH grade stainless steel to include a visual swage slip indicator, system tensioning device with integral indicator.



**Extremity, corner and intermediate brackets**

To be manufactured from electro polished 316 grade stainless steel.

Transfastener® (mobile anchor point)

Enabling continuous hands-free operation to either side of the system without the need to detach.

CE marked and evidenced by an EC Declaration of Conformity detailing the product, the European Standard, name of the independent Notified Body and date.

Connection to system

Energy absorbing lanyard (by others)

Roof system compatibility

To be approved and or deemed suitable for use by the roofing system manufacture and maintain their roofing system warranty / guarantee.

System Design, application, installation, maintenance, repair, annual inspection and certification

Undertaken only by MSA Latchways Registered Installers. Details upon request.