Safesite Mobile Man Anchor







INTRODUCTION

The CE Approved Mobile Man Anchor is an item of Personal Protective Equipment (PPE) which has been specifically designed to provide short term safety for low frequency operations where guardrails are not provided. The unit is ideal for short term maintenance operations to flat roofs or to the plant and equipment installed at roof level such as AC units, telecommunications equipment etc.

Safesite's Mobile Man Anchor is extremely compact, portable, easily assembled and features a unique design incorporating a shock absorber which reduces the total weight of the unit, making the product more "user friendly". The Mobile Man Anchor has been designed to be used with an approved shock absorbing rope grab and rope and full body harness to provide safe access at all times.

The unit is fully galvanised to BS EN ISO 1461:1999 Hot Dip Galvanised Coatings Specification and test methods. The Anchor Weights are supplied with suction cup rubber boots. These protect the roof membrane, increase friction resistance and enable the anchor to be used on all roof membranes, even in wet weather.

The Mobile Man Anchor fully complies with BS EN 795: Protection against falls from height - Anchor devices - Requirements and testing.

The unit has also been designed to ensure compliance with the following Regulations:

Work at Height Regulations 2005

Construction (Health, Safety & Welfare) Regulations 1996 Construction (Design & Management) Regulations Workplace (Health, Safety & Welfare) Regulations 1992 Manual Handling Operations Regulations 1992

BUILDING HEIGHT & SAFE WORKING

It is essential that a risk assessment is carried out by a competent person to ensure that the product is used safely. Part of the assessment will consider the building's height and the combination of PPE to be used in conjunction with the Safesite Mobile Man Anchor.

Safesite recommends that, as far as reasonably practicable, the Mobile Man Anchor should be used as a fall restraint solution rather than fall arrest. When used for fall restraint, the Mobile Man Anchor must be used in conjunction with PPE that prevents the operative from reaching the leading edge. The Mobile Man Anchor should then be positioned so that the rope remains taught as the user approaches the edge.

If the above is not possible and a fall arrest solution is required then a sufficiently detailed risk assessment, method statement and rescue policy must be produced by a competent person. Care must also be taken to use the correct combination of PPE to minimize the distance & consequence of a potential fall.

Generally the length of the shock absorbing rope grab device should not exceed the height of the building in order to avoid the possibility of the pendulum effect. To prevent this, the Mobile Man Anchor should be placed perpendicular to the leading edge where the operative is likely to be working. The rope grab line should remain taught at all times when working at the leading edge.

No part of the Mobile Man Anchor should be placed closer than 2.5m from the nearest roof edge. The unit should not be placed on any surfaces affected by ice, grease or similar slippery conditions which may impair the performance of the unit.



ROOF PITCH & SAFE WORKING

The Mobile Man Anchor can be used on any flat roof or industrial steel cladded pitched roof up to 15° pitch provided that the unit is positioned on the opposite pitch to where the operative intends to work. When placed on a roof slope, the Mobile Man Anchor must be at least 2.5m from the ridge. In all cases, the roof structure must be capable of taking the load of the Mobile Man Anchor (250kg) combined with the weight of the operative, plus any additional equipment required.

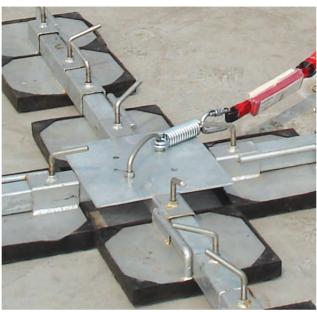
LEGAL REQUIREMENTS

The Work at Height Regulations 2005 require that the employer/ building owner has a rescue plan and policy in place for all fall arrest systems. (see pages 82-87)

TESTING & CE APPROVAL

Safesite's Mobile Man Anchor has been extensively tested by SATRA to BS EN 795: Protection against falls from a height - Anchor devices - Requirements and testing. The unit was tested on the following roof surfaces and has been awarded CE Approval accordingly.

Single Ply Membrane HT Mineral Grade Felt Swept Stone Chippings Paving Slabs Asphalt Steel Cladding



EN 795 TEST PROCEDURE

The test involved a 100kg weight freefalling a distance of 2.5m to reach a maximum velocity. The Mobile Man Anchor then had to bring this force to a complete rest within a horizontal movement not exceeding 1.0m. This was achieved via the extension of the shock absorber coupled with horizontal movement of the complete unit. This test was then successfully duplicated using a 120kg weight. Full independent test documentation is available upon request.

In addition to the above testing, the Mobile Man Anchor has also been tested with a shock absorbing rope grab device with 14mm twisted rope connected to the shock absorber of the Mobile Man Anchor over steel & concrete sharp edges, thus representing on site usage of the system. The same test load as BS EN 795 was applied to the system. This testing successfully demonstrated the compatibility of the shock absorbing rope grab device with 14mm twisted rope when used horizontally in combination with a Safesite Mobile Man Anchor over sharp edges.



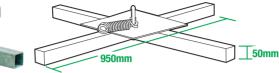
EN 795 REVIEW

This standard has recently been reviewed. As a consequence the 100kg test weight remains unchanged, but the free fall distance has been changed from 2.5m to 1.5m. Once this dynamic load has been applied an additional 100kg static load is then applied, thus representing an extreme rescue situation where a rescuer has no choice but to abseil to the casualty.

LINKED MOBILE MAN ANCHOR SYSTEMS

See Fall Arrest and Restraint Linked System on page 78

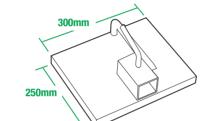
Safesite Mobile Man Anchor Specification



MOBILE MAN ANCHOR CROSS FRAME - MMA 001

This unit is the heart of the system and provides the means of connecting the man anchor weights to the shock absorber anchorage point. Material : galvanised steel to BS EN ISO 1461. Net weight : 13.6kg.

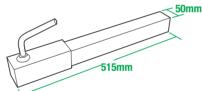




MOBILE MAN ANCHOR WEIGHT - MMA 002

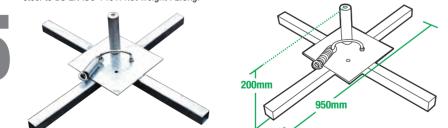
This component is one of twelve that are used to provide the overall weight of the system. Material : galvanised steel to BS EN ISO 1461. Net weight : 19kg.





MOBILE MAN ANCHOR EXTENSION ARM - MMA 003

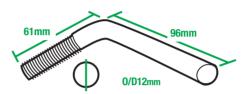
This unit is utilised to connect the second and third weight of each arm to the cross frame. Material : galvanised steel to BS EN ISO 1461. Net weight : 2.5kg.

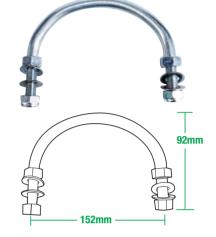


LINKED MOBILE MAN ANCHOR - CABLE SUPPORT POST - MMA 004

This item can be fitted to the standard cross frame. This arrangement links a series of Mobile Man Anchor utilising the Safesite horizontal line system. This provides a fall restraint/arrest system that has the advantage of being free standing as opposed to being traditionally fixed to the structure. Mobile Man Anchor centres 10m. Material : Mobile Man Anchor Cross Frame : galvanised steel to BS EN ISO 1461. Net weight : 13.6kg. Cable Support Post : Stainless steel AISI 316L grade. Net weight : 0.885kg. (This code relates to the Support Post ONLY, not the Cross Frame and Support Post.)

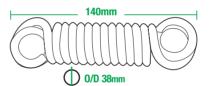






L-BOLT - MMA 005 & HANDLE - MMA 006

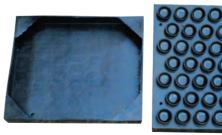
The L-Bolt provides the means of securing the components to the system. Material : stainless steel A2-50 grade. Net weight : 0.13kg. The Handle provides the attachment of the shock absorber to the Mobile Man Anchor Cross Frame. Material : stainless steel A2-50. Net weight : 0.285kg.

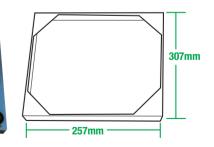




SHOCK ABSORBER - MMA 007

This component absorbs the shock loading should an operative fall whilst connected to the Mobile Man Anchor. The component is designed to be disposed of should it be activated. Material : bright zinc plated steel. Net weight : 0.85kg.





RUBBER BOOTS - MMA REP BOOTS Set of 12 replacement rubber boots for MMA 002.

Complies with BS EN 795 Class 3 Anchorage Devices

MOBILE MAN ANCHOR USER INSTRUCTIONS

LMB

- Please ensure all operatives have read fully and understood all instructions for the safety equipment before using and completed a comprehensive risk assessment for each roof and/or roof membrane.
- Only one person to be connected at any one time.
- · Recommended maximum weight of person 100kg.
- On a flat roof make sure that the Mobile Man Anchor will be used at least 2.5m from the edge of the roof. See diagram.
- Building Height and Safe Working see page 70.
- When used on steel cladded roofs up to 15° pitch always place the Mobile Man Anchor on the opposite
 pitch to the one you are working on. Always position the Mobile Man Anchor a minimum of 2.5m
 from the ridge on the opposite pitch. When working on the verge detail remember to position the
 Mobile Man Anchor at least 2.5m from the verge and only work opposite the Mobile Man Anchor
 in order to avoid the pendulum effect down the façade of the building.
- Sweep any loose materials from the surface of the roof covering where the Mobile Man Anchor will be placed. (Do not use on icy, greasy or any slippery surfaces that may impair the Mobile Man Anchor's performance.) Ensure that the rubber boots are in place and in good condition before using.
- Slide 1 Mobile Man Anchor Weight onto each of the cross frame legs and tighten the locking handles in a clockwise direction. See diagram for exact layout.
- Slide 1 Extension Arm onto each of the cross frame legs and tighten the locking handles in a clockwise direction. See diagram for exact layout.
- Slide a further 2 Weights onto each of the Extension Arms and tighten the locking handles in a clockwise direction. See diagram for exact layout.
- Connect karabiner (or similar approved clip) of the shock absorbing rope grab device (or fixed length lanyard) only to the loose end of the spring shock absorber on the Mobile Man Anchor.
- Never connect to any other part of the Mobile Man Anchor. Check the spring shock absorber is in good condition and that it is not stretched or damaged in any way. If the spring is elongated do not use the unit and return the whole assembly to Safesite Limited for repair / replacement.
- All operatives must read & fully understand all PPE instructions before using with the Mobile Man Anchor.
- Once the operative is wearing the harness connect the karabiner on the end of the shock absorbing rope grab device (or fixed length lanyard) to either of the chest or rear D-Rings of the harness.
- Make sure all connections are fixed correctly and that the system has been assembled correctly. The system is now ready for use.
- If you are in any doubt please contact Safesite's Technical Department on 01293 529977.

