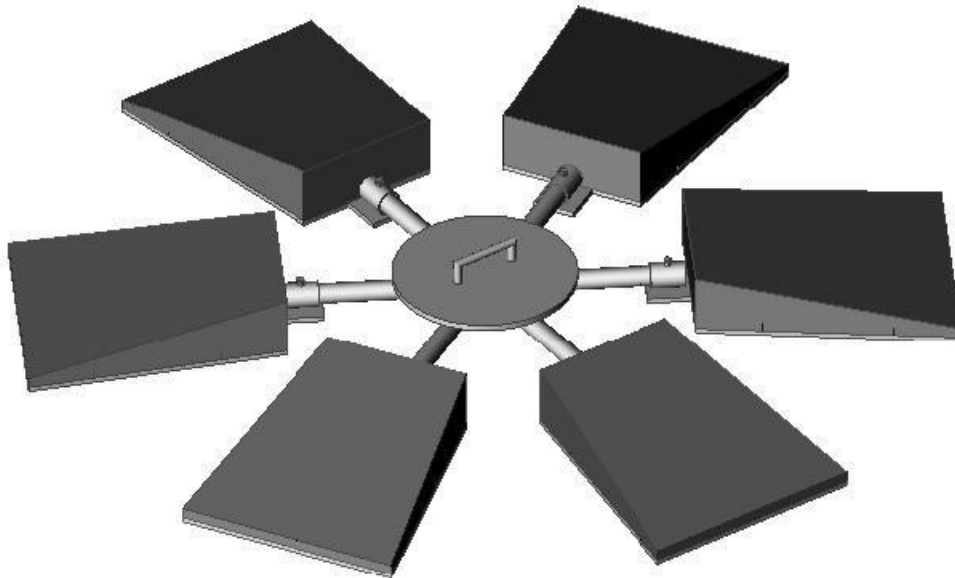


Dead Weight Man Anchor

Operation & Maintenance Manual



Dead Weight Man Anchor Specification

General Description

The **SafeRail™** Dead Weight Man Anchor is specifically designed to provide short-term safety for low frequency operations where guardrails are not provided. This portable anchor 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, telecommunication equipment etc.

The **SafeRail™** Dead Weight Man Anchor has been designed to be used with an approved shock absorbing rope & rope grab and full body harness to provide safe access at all times.

The **SafeRail™** Dead Weight Man Anchor should be used as a fall restraint solution rather than a fall arrest. The systems modular components have been designed for ease of assembly on site and transporting the system to site.

Testing and Certification Procedure

Our **SafeRail™** Dead Weight Man Anchor has been extensively tested by SATRA Technology to BS EN 795.1997

The independent test documents are available upon request.

The two types of Dead Weight Man Anchors have been tested on the following roof surfaces and have been awarded CE Approval accordingly.

- Chipping Roof Surface
- Bitumen/EPDM Roof Surface
- Paving Slabs Roof Surface
- Asphalt Roof Surface
- Steel Roof Surface
- PVC Membrane Roof Surface

Dead Weight Man Anchor Building Height & Safe Working

The **SafeRail™** Dead Weight Man Anchor can be utilised on buildings over 4m high when used as either a fall restraint system or fall arrest system in conjunction with a shock absorbing rope grab device. The length of the shock absorbing rope grab device should not generally exceed the height of the building in order to avoid the possibility of the pendulum effect.

To avoid this, the **SafeRail™** Dead Weight Man Anchor should be placed perpendicular to the roof edge where the operative is likely to be working.

No part of the Dead Weight Man Anchor should be placed closer than 2.5m from the nearest roof edge. Remove any loose materials from the area that you are about to site the Dead Weight Man Anchor. 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.

If the **SafeRail™** Dead Weight Man Anchor is used on buildings below 4m it must be used in conjunction with a fixed length lanyard and used as a restraint system as opposed to fall arrest.

Dead Weight Man Anchor Pitch Roof & Safe Working

The **SafeRail™** Dead Weight Man Anchor can be used on a flat roof or on industrial steel clad pitched roofs up to 15 degrees pitch providing the **SafeRail™** Dead Weight Man Anchor is positioned on the opposite pitch to where the operative intends working.

When placed on the roof slope the Dead Weight Man Anchor must be at least 2.5m from the ridge.

The Dead Weight Man Anchor should not be used outside its limitations, or for any purpose other than short term maintenance. No alterations should or any additions to be made to the Dead Weight Man Anchor and any repairs should be carried out by the manufacturer. Suitable for use on the roof types given in **table 1** for both the 6 Leg Dead Weight Man Anchor and the 8 Leg Dead Weight Man Anchor

In all cases one must ensure that the roof structure is capable of taking the load of the Dead Weight Man Anchor (260kg or 340kg) combined with the weight of the operative plus any additional equipment required.

Never attach more than one person to the Dead Weight Man Anchor at any one time, recommended maximum weight of person 100kg; the equipment should only be used by a competent trained person in its safe use and who is also free from any known medical conditions e.g. high blood pressure, vertigo which may affect working at height.

It is essential that a risk assessment is carried out to ensure that the product is used safely this may not be the person carrying out the actual work at height.

The Work at Height Regulations 2005 requires that the employer / building owner has a rescue plan and a policy in place for the use of the Dead Weight Man Anchor.

	6 Point Dead Weight Man Anchor	8 Point Dead Weight Man Anchor
Chipping Roof Surface	YES	YES
Bitumen/EPDM Roof Surface	YES	YES
Paving Slabs Roof Surface	YES	YES
Asphalt Roof Surface	YES	YES
Steel Roof Surface	NO	YES
PVC Membrane Roof Surface	NO	YES

PLEASE NOTE:

It is possible to attach a safety line to the Dead Weight man anchors to assist in guiding personnel between the anchor points to ensure operatives are kept away from any exposed edges, it should be stressed that the line itself cannot be used to work from. Only the Dead Weight man anchor is to be used as the fixed working point and only one person per anchor.

Dead Weight Man Anchor Components

The Dead Weight Man Anchor is provided with the following components:

- The central “spider” piece - Has 6 or 8 legs depending on whether you have the 260KG or 340KG Version.
- 6 (260KG Version) or 8 (340KG Version) Steel Feet.
- 6 (260KG Version) or 8 (340KG Version) Rubber Weights.
- M10 Nuts & Bolts - 6 (260KG Version) or 8 (340KG Version).
- 1.7mtrs diameter approx.

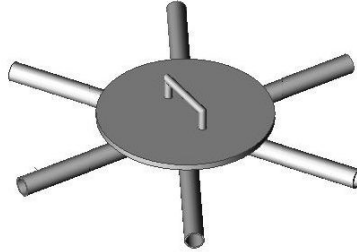
Detailed Component Inspection:

- Check central “spider” piece arms for distortion, damage to weld or dents. Ensure that this does not affect the fitting of the weights.
- Check handle is securely in place.
- Check all rubber pads on the weights are in good order – no tears or rubber missing.
- Check any galvanized components showing any signs of corrosion or rust.
- Check for damage to rubber weight.

Dead Weight Man Anchor Installation

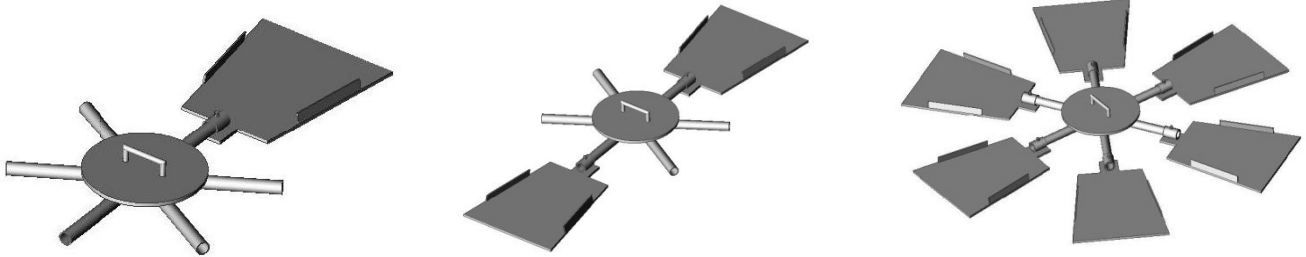
Step 1

Place the central “spider” piece on the roof surface, at least 2.5m from the edge of the area you are working.



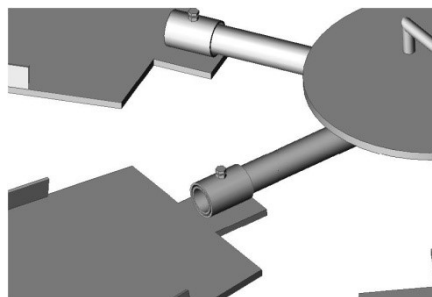
Step 2

Secure steel feet to the central “Spider”.



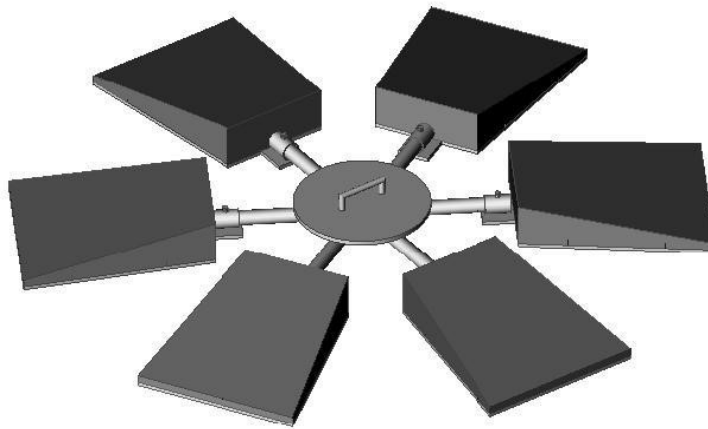
Step 3

Fix the steel feet to the central “spider”, with the supplied M10 nuts & bolts.



Step 4

Slide the rubber weights into the steel feet.



Step 5

Make sure all connections are fixed and assembled correctly with no obvious distortions in balance. When connecting to the anchor device use an EN 362 Compliant connector, ensure you have checked your harness equipment and rope prior to each use, and that it is secured in a suitable way to the Man-Anchor. Your Man-Anchor is now ready for use.

Dead Weight Man Anchor Maintenance & Re-Certification

Maintenance

Our system is maintenance free, however if cleaning is required use only a mild detergent and water (such as domestic washing up liquid) in order not damage any of the galvanised coating.

Re-Certification

Periodic inspections by competent person are required under the Regulation 5 of the workplace (Health & Safety & Welfare) Regulations 1992, BS EN365 & BS7883.

The frequency will depend upon environment, location and utilisation, but should be every 12 months. In the event of a fall the Dead Weight Man Anchor MUST be returned to the manufacturer to be re-inspected.

Transportation

When transporting the Dead Weight Man Anchor to prevent any damage to the units please ensure all components are packed with the weights face to face and the centre piece on top. You must test the set screws ensuring that the threads are free from any damage, to do this is by screw the sets down by hand making sure you then lock on with a spanner this will ensure the weights are fixed correctly in place