

# Wireanka



## GENERAL INFORMATION

Wireanka® is for use on nominally flat roofs (max 5° slope), where the absence of appropriate anchors or anchor points would otherwise preclude a safe means of access.

Wireanka® is a deadweight anchor device for use as support for flexible anchor lines conforming to EN 795 Class C and BS7883. It consists of a modular steel framework to which weights are attached. Various fittings may be provided for the attachment of the above anchor lines.

Wireanka® is made in several parts to ease mobility.

A standard Wireanka® supported wire system may support up to TWO users for Fall Arrest, and an unlimited number of users in RESTRAINT, depending upon layout and application.

**WireAnka must not be used as a support for rope access (abseiling) systems. An alternative product, AccessAnka®, is available for this purpose.**

## TECHNICAL INFORMATION

The Weightanka system can be used with PPE according to;

- EN 354: 2002 (fixed lanyards),
- EN 355: 2002 (energy absorbing device)
- EN 361: 2002 (safety harness), subject to strict adherence to the manufacturers
- instructions for use
- Guided Type fall Arrest system to EN 353-2 and EN358

**A full-body harness is the only acceptable body holding device for fall arrest systems.**

**Retractable type fall arrest devices are not tested as compatible for use with Wireanka, and should be not used with this product.**

Advice on the selection and use of suitable equipment is provided in the following British Standard publication:

- BS 8437:2005 – code of practice on the selection and use and maintenance of personal fall protection systems and equipment for use in the workplace

**As there is the possibility of the system having to arrest a fall, means of dissipating energy (e.g. a device or system to EN355) should be incorporated to keep the maximum impact force to below 6 kN. EN355 devices are tested using a 100kg standard. Users who exceed this (including equipment carried) should consult the manufacturer of the energy dissipation system to confirm the suitability of such a product.**

The Wireanka® system is deemed to be used in accordance with regulations only when all the following conditions are met:

- The system may ONLY be used for the supports of for Class 'C' Horizontal Flexible Anchor lines to EN795. It must not be used for any other purpose
- All users must be equipped with a means of ensuring that the forces applied to the body (and therefore to the anchor device) during the arrest of a fall does not exceed 6kN.
- All instructions contained within this document have been complied with.
- The pre-use checks contained within this document have been completed and recorded.
- All component parts must be used for the assembly of the system. ALL systems
- incorporate four rubber coated weights in addition to required number of Galvanised weights
- No part of the Wireanka® system may be placed closer than 2.5 metres from the edge of a roof or open void or any other fall hazard. Other edge distance limiting factors are included
- A clearance height of at least 250 mm must remain above the highest component of the system.

The Wireanka® system is designed only for use on roofs of the following types, with a maximum slope of the roof surface of 5° and with the correct configurations:

- Single ply Membrane
- Steel Cladding

- Stone Chippings
- Mineral felt
- Asphalt
- concrete

The Wireanka® system may only be used when the supporting base are free from snow and ice. Do not use if there is the risk of frost or in freezing conditions.

Do not position the Wireanka® system where there is a risk of accumulation of water or where there is contamination of the roof surface and / or any Wireanka component by oil, grease or growth of algae

Use of Wireanka® in high winds is not permitted.

Ensure that all fragile roof lights in the work area are covered to prevent falls through them.

**It is essential for safety that the anchor point is always positioned, and the work carried out in such a way, that any free fall would be minimised. Under normal circumstances and foreseeable conditions of use.**

**It is essential for safety to verify the free space required beneath the user at the workplace before each use, the edge distance from any part of the WIREANKA®, and that the system design and layout take account of these distances. See Section 2. This is to ensure that, in the case of a fall, there will be no collision with the ground or other obstacle in the fall path. Remember that a full body harness (e.g. conforming to EN 361 Full body harnesses) is the only acceptable body-holding device that can be used in a fall arrest system**

## Requirements of the Installation Site

The installation site must meet the following requirements:

Criterion	Requirement
Shape of roof	<ul style="list-style-type: none"> <li>• Only for use on flat roofs.</li> </ul>
Permitted roof slope	<ul style="list-style-type: none"> <li>• Max. 5°</li> </ul>
Roof surface	<ul style="list-style-type: none"> <li>• For use on mineral felt, concrete, profiled metal sheets, Asphalt, Stone chippings and single ply membrane.</li> <li>• The number of galvanised weights required for any particular installation will depend on a range of factors. See Tables 4, 5, 6 &amp; 7.</li> <li>• The roof surface must be free from loose debris, oil, grease and algae</li> <li>• Where the system is to be used on a roof that is covered with stone chippings, all loose stones shall be removed (e.g. swept with a hard brush) from the area where the system will sit AND for a distance of AT LEAST 2.5m in EACH direction in which it may travel when arresting a fall before assembly of the system</li> </ul>
Meteorological conditions	<ul style="list-style-type: none"> <li>• The roof must be free from snow and ice.</li> <li>• If, during use, there is a risk of freezing conditions or if it starts to snow, the Wireanka<sup>®</sup> system may not be used.</li> <li>• The Wireanka<sup>®</sup> system may not be used in conditions of high winds.</li> </ul>
Safety distances	<ul style="list-style-type: none"> <li>• All parts of the system must be no closer than minimum distance from a roof edge, open void or other fall hazard depending on configuration and intended use. See Tables 4 &amp; 5 for minimum edge distances.</li> <li>• A clearance height of at least 250 mm must remain above the highest component of the system.</li> <li>• The clearance height below the feet must meet the minimum requirements in Table 4 &amp; 5.</li> </ul>

# Positioning of Wireanka

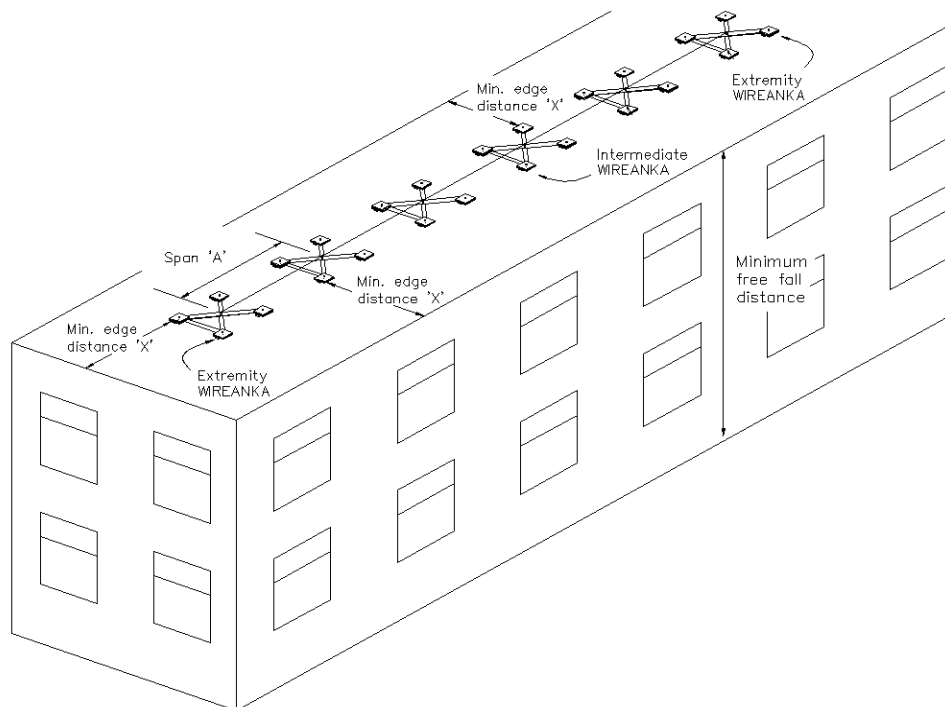
The distance between Wireanka® units (the “Span”) depends the available UNOBSTRUCTED free fall distance and the distance from the fall hazard to the nearest part of the Wireanka® unit.

## “FALL ARREST” SYSTEMS

	ALL SYSTEMS					
MAX SPAN	5M	6M	8M	10M	12M	15M
Min.Free Fall Distance	5.2M	5.4M	5.8M	6.2M	6.6M	7.2M
Min.Edge Distance	2.5M	2.5M	3.0M	3.0M	4.0M	4.0M

## “RESTRAINT ONLY” SYSTEMS

	ALL SYSTEMS					
MAX SPAN	5M	6M	8M	10M	12M	15M
Min. Edge Distance	2.5M	2.5M	2.5M	2.5M	Consult our technical department	



## Mass of Wireanka

The 'mass' of Wireanka<sup>®</sup> units is determined by the type of use, i.e. FALL ARREST or RESTRAINT, the number of users, and the type of roof surface on which the system is installed. The minimum edge distance and minimum required free fall distance depends upon the span between Wireanka<sup>®</sup> units. The tables below and Figure 2 detail the safe conditions of use.

### **DANGER TO LIFE!**

These requirements must always be adhered to.

### **DANGER!**

As 500 Kg Extremity / Corner WIREANKA<sup>®</sup> units (on embossed membranes) result in point loading which exceed the usual 100 Kg limit, the advice of a structural engineer should be sought before installation

### **WIREANKA MASS - RESTRAINT ONLY USE**

For RESTRAINT USE ONLY, all Extremity and Intermediate Wireanka units need only be a total of 250kg

### **WIREANKA MASS – FALL ARREST USE**

#### **Intermediate Pedestal Mass**

The mass of the Intermediate WIREANKA<sup>®</sup> assembly will depend on the type of roof surface on which the system is erected. See Table 6

<b>TYPE OF ROOF SURFACE</b>	<b>QUANTITY OF RUBBER WEIGHTS</b>	<b>QUANTITY OF GALVANISED WEIGHTS</b>
<ul style="list-style-type: none"><li>Asphalt, Concrete</li><li>Mineral Felt</li><li>Stone Chippings</li></ul> Total Mass = <b>250kg</b>	4	6
<ul style="list-style-type: none"><li>Steel Clad Roofs</li><li>Single Ply Membrane (FLAT, SMOOTH)</li></ul> Total Mass = <b>300kg</b>	4	8
<ul style="list-style-type: none"><li>Single Ply Membrane (EMBOSSSED)</li></ul> Total Mass = <b>400kg</b>	4	12

### Extremity / Corner Pedestal Mass

The mass of the extremity WIREANKA® assembly will depend on the type of roof surface on which the system is erected. See Table 7

<b><i>TYPE OF ROOF SURFACE</i></b>	<b><i>QUANTITY OF RUBBER WEIGHTS</i></b>	<b><i>QUANTITY OF GALVANISED WEIGHTS</i></b>
<ul style="list-style-type: none"><li>• Asphalt</li><li>• Concrete</li><li>• Mineral Felt</li><li>• Stone Chippings</li></ul> Total Mass = <b>300kg</b>	4	8
<ul style="list-style-type: none"><li>• Steel Clad Roofs</li></ul> Total Mass = <b>350kg</b>	4	10
<ul style="list-style-type: none"><li>• Single Ply Membrane (FLAT, SMOOTH)</li></ul> Total Mass = <b>400kg</b>	4	12
<ul style="list-style-type: none"><li>• Single Ply Membrane (EMBOSSSED)</li></ul> Total Mass = <b>500kg</b>	4	16