

# Ringanka

 A KEE SAFETY PRODUCT

## GENERAL INFORMATION

Ringanka is a component part of a personal protection system for the prevention of falls from heights and may be used only in conjunction with the relevant personal protective equipment (Lanyards etc.). The user must seek guidance from, and follow the instructions supplied by, the manufacturer of such equipment.

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

Only one person may be connected to The Ringanka® system at any time.  
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.

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

## TECHNICAL INFORMATION

Each structure is of an individual character, and as such a survey of the site must be undertaken to determine suitable positions for installation of anchor devices. The person undertaking the survey should be a suitably qualified structural engineer and should be aware of the advice given in BS7883. The structure must be capable of withstanding a 12kN pull out force.

### Requirements of the Installation Site

The installation site must meet the following requirements, :

**Table 2 - 1**

<b>Criterion</b>	<b>Requirement</b>
Low Temperature Use	<ul style="list-style-type: none"><li>• Carbon Steel Anchor eyebolts and components should not be used during periods when the temperature on site is lower than -20 degrees C.</li><li>• Stainless Steel Anchor eyebolts and components should not be used during periods when the temperature on site is lower than -40 degrees C).</li></ul>
Direction of loading:-	<ul style="list-style-type: none"><li>• Along the axis of the screw thread, or at any angle to that axis.</li></ul>
Selection of Structural Anchors	<ul style="list-style-type: none"><li>• Where Anchor Devices are to be installed, the types of wall should be checked to ascertain the nature and thickness of structural materials, and appropriate structural anchors should be selected. The installer should follow the manufacturers fixings instructions.</li></ul>
Safety distances	<ul style="list-style-type: none"><li>• The clearance height below the feet of the user to the first obstacle in the path of a potential fall must be at least that required by any P.P.E. used in conjunction with Ringanka®.</li><li>• Wherever practical, the Anchor device should be installed where it would be above the position of the user.</li></ul>

- Selection of correct knurled socket  
The 100mm or 120mm long inserts are recommended for normal use with Anchor Eyebolts to EN795-Class A1 and BS7883 Class A1, in walls of minimum 225mm thickness, except in the following situations:
  - a) 76mm long inserts are ONLY to be used in structural concrete of less than 200mm thick. Where the thickness of concrete exceeds 200mm, it is always recommended that a longer (100mm minimum length) insert should be used.
  - b) 152mm long inserts should be used in softer materials, or where the “Tests Prior to Installation” detailed below indicate the shorter lengths are unsuitable.
- Advice on the selection of the type of anchor is given in BS7883

#### Recommended Drilling Depths in Masonry Structures

<u>Recommended Drilling Depth when used with Anchor Devices to EN795 Class A1 and BS7883</u>				
<u>Knurled Socket Length (mm)</u>	<u>Drill Diameter (mm)</u>	<u>Recommended Drilling Depth When Used with Eyebolt of shank length (mm)</u>		
		<u>100</u>	<u>152</u>	<u>204</u>
76	22	132	184	236
100	20	169	221	273
120	20	181	233	285
152	18	234	286	338

- Class A1 Anchor Devices to EN795 and BS7883
- The Ringanka® system has been CE Certified to PPE Directive by National Engineering Laboratory, East Kilbride, Glasgow. G75 0QU. United Kingdom. Notified Body Number 0320
- The notified body ensuring conformance for EC marking is: Inspec International Limited, Salford M6 6AJ, United Kingdom. Notified body number 0194.