

RINGANKA

Class A1 Anchor Devices to EN 795, BS 7883 and ISO 14567

*A comprehensive range of anchors bolts and accessories to suit
most installations.*



***CE approved to
the PPE Directive***



Available from:

Fall Protection Anchorages Are Intended To Save Life!

*Their positioning should always be determined by a competent person, following the recommendations of BS 7883:1997 clause 8 where appropriate. Installation should also follow Appendix A of EN 795 and also BS 7883, and must always include testing procedures detailed in the appropriate clauses of those standards. **NEVER** use eyebolts other than EN 795 as Fall Protection Anchor Devices - the wrong eyebolts in the wrong situation could prove **FATAL!***



Standard 100mm Eyebolt

For use with knurled insert in brick, concrete and masonry etc. as per figures 7 and 8 of BS 7883:1997

Longer 152mm Eyebolt

Available where deeper fixing is necessary

75mm Shank Length

*For use **ONLY** on steel structures.
See BS 7883:1997 Fig. 9*

Our safety eyebolts for use in brick, concrete and masonry have a 16mm diameter unthreaded shank to 'plug' a drilled hole, thus reducing the bending effects which would result in earlier failure during shear loading. These safety eyebolts can be used by fixing to an outside or inside face of a structural element adjacent to the window or other access. They are manufactured from either high tensile carbon steel with a galvanised or plastic-coated finish, or grade 316 stainless steel bright polished.

Periodic Inspection

BS 7883 requires that all safety anchor devices are removable for periodic inspection. This is easily achieved by using our Knurled Inserts in conjunction with our Resin Capsules.



M12 Female Threaded Knurled Inserts are available in lengths of 76mm, 102mm, 120mm and 150mm to suit varying installation situations. 76mm long sockets should **ONLY** be used in DENSE concrete.



16mm diameter resin capsules should be used with M12 Female Threaded Knurled Inserts.



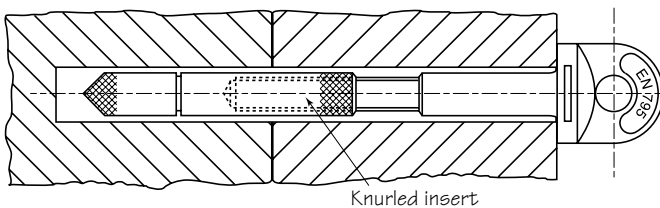
Threaded Connectors to extend eyebolts, for use as Through-Bolts (BS 7883:1997 Fig.10) The associated All-Thread is also available.



PPE Warning Disc

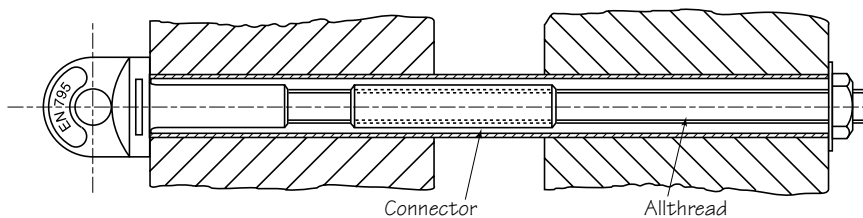
This is required to comply with Appendix A of EN 795 which states: "Where an anchor device is intended to be used exclusively for personal protective equipment it should be clearly marked by pictogram or other clearly seen and understood marking on or near the anchor device, clearly stating that the device is designed exclusively for use of personal protective equipment".

Dunn & Cowe Ltd can produce a suitable notice, and at an extra cost, your name can be printed in the space provided. Polythene Sealing Washers are also available.



Knurled insert

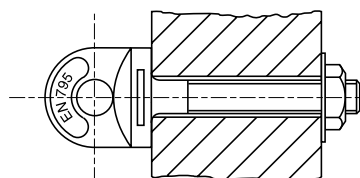
100mm or 152mm shank length. Used in brick, concrete etc with chemically anchored socket and knurled insert. (See BS 7883:1997 Fig. 7)



Connector

Allthread

Eyebolt extended with threaded connector and all-thread for use as a through-bolt in solid or cavity wall. (See BS 7883:1997 Fig. 9)



75mm shank length used **ONLY** on steel structures (See BS 7883:1997 Fig. 9)

Cantilever Anchor Devices

(Cantilever sockets are protected by British Design Registration No.2086587)

For use in dry lined walls or in conjunction with plasterboard, cladding etc.

In situations where the anchor device is required to protrude beyond the surface of the load bearing structure, it is essential that appropriate resistance to bending be incorporated into the installation.

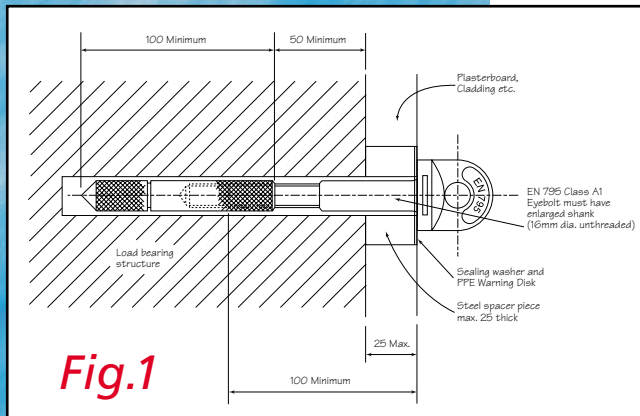


Fig.1

SPACER SLEEVES

Where the distance from the face of the load bearing structure to the collar of the eyebolt does not exceed 25mm, a spacer sleeve may be placed under the eyebolt collar to provide the necessary support. See Fig. 1

CRITERIA FOR THEIR USE

- ❑ Use only in conjunction with 100mm (or longer) RINGANKA anchor devices, designed for use in brick, stone or concrete etc.
- ❑ **DO NOT** use in conjunction with anchor devices which are threaded to within 50mm of the collar.
- ❑ Use only in conjunction with resin bonded knurled inserts of at least 100mm overall length.
- ❑ Knurled inserts to be resin bonded at least 50mm below surface of **LOAD BEARING** structure.
- ❑ Spacer sleeve must pass through cladding, plaster etc, and be in direct contact with the load bearing structure.

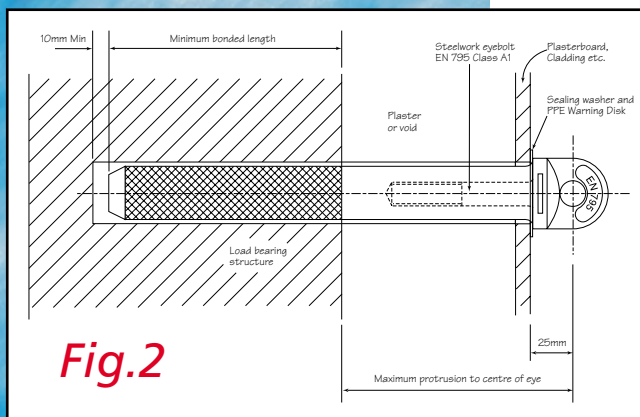


Fig.2

CANTILEVER SOCKETS

Where the distance from the face of the load bearing structure to the collar of the eyebolt exceeds 25mm, special cantilever sockets are available. Where the distance to be bridged exceeds those in the table special advice should be sought.

Minimum bonding length for various protrusions from a load bearing structure. See Fig. 2

Max. protrusion to centre of eye (mm)	Min. bonded length (mm)*	Recommended overall length of socket (mm)
75	100	175
90	110	200
100	120	225
125	125	250
150 Δ	140	300
175 Δ	160	335
200 Δ	180	380

* The drilling depth is at least 10mm more than the bonded length
 Δ Only in concrete

GENERAL REQUIREMENTS FOR CANTILEVER ANCHOR DEVICES

- ❑ Maximum permitted in-service force = 6kN (design capability = 10kN as per EN 795) ie all users must be protected by the provision of an energy absorber to EN 355
- ❑ Load bearing structures and chemical fixings must be capable of withstanding a 10kN pull-out force
- ❑ Each individual installed anchor device must be subjected to a 5kN pull-out force (as per EN 795 Appendix B, and BS 7883)
- ❑ It should be noted that, when installed into materials of less than 20 N/mm² compressive strengths, there may be local crushing/compacting around the drilled hole at fall arrest.