

## Eye Anchors and the Requirement of Hanger Bars

**Reid eye anchors (REA & EA series) require the use of additional reinforcing, in the form of hanger bars, to achieve the full published loads.**



### Why do eye anchors require hanger bars?

Hanger bars transfer load from the anchor, deeper into the product, achieving increased lifting capacity. This is particularly applicable in thin or lower strength concrete elements; where a foot anchor of equivalent length would have a significant reduction in capacity.

### Can I swap a foot anchor for a REA anchor of equivalent capacity?

No, these products may share the same length, however, the way they achieve their stated capacities are different. Although the REA anchors have a foot, this foot is not the same size of that of an equivalent foot anchor and as such does not develop the same tensile capacity as a similar foot anchor. Following on to this, eye anchors are designed for tensile loads only.

### Can I use a straight bar rather than a “U” or “V” shaped hanger bar?

No, eye anchors achieve their stated capacities by transferring load deeper into the product. Using a hanger bar, the effective depth of the anchor is increased through the addition of the bar.

### What should the hanger bar be made of?

Reid’s published data tables are based on the use of Grade 500E deformed bar or prestressing strand.

### What length should the hanger bar be?

This can vary depending on the proximity to a free edge or another anchor as well as concrete capacity. Reid publishes recommended hanger bar lengths based on this, as well as if the bar ends are hooked or not. Reid recommends following the nominated design and lengths as outlined within your project’s lifting certification.

### What bend diameter should I use for my hanger bar?

Please refer eye anchor technical data sheet for this information.