

Ancon Building Products

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KSN Anchors

By Ancon Building Products

Detailed description

Ancon KSN Anchors, designed to be used in combination with Bartec parallel threaded reinforcing bars, simplify concrete construction joints. Together, they allow engineers to design slab-to-wall connections without the restrictions on bar length and bar diameter of re-bend continuity systems or the awkward anchorage lengths demanded by reinforcing bar couplers. KSN Anchors are cast into the concrete wall and, when the formwork and thread protection are removed, the reinforcing bars are simply screwed into the anchors. This is a quicker, easier, and above all safer continuity system. It eliminates the drilling of formwork or concrete and the dangers associated with projecting bars and on site bar straightening. It replaces hooked bars and stirrups, simplifying bar scheduling and minimizing congestion in the wall. Unlike pull-out bar systems, there is virtually no restriction on continuation bar length and they are available in a greater choice of bar diameters. In addition to their suitability for direct tensile applications, independent tests have verified an enhancement in the performance of KSN Anchors when used in slab-to-wall moment connections.

KSN Anchors are delivered to site pre-assembled as independent rows of anchors fixed with countersunk socket head cap screws to the back of a tapered timber strip. The timber provides an additional 33 mm of embedment to each KSN Anchor and, after removal, provides a shear key for the joint. By increasing the embedment depth, the capacity of a KSN Anchor is improved.

Options

Dimensions:

- KSN12S:

- Nominal external diameter: 22 mm.
- Metric thread: M16 x 2.0.
- Nominal head width: 46 mm.
- Nominal head A/F: 40 mm.
- Anchor length: 115 mm.
- Embedment depth: 142 mm.

- KSN12M:

- Nominal external diameter: 22 mm.
- Metric thread: M16 x 2.0.
- Nominal head width: 46 mm.
- Nominal head A/F: 40 mm.
- Anchor length: 150 mm.
- Embedment depth: 177 mm.

- KSN16S:

- Nominal external diameter: 28 mm.
- Metric thread: M20 x 2.5.
- Nominal head width: 61 mm.
- Nominal head A/F: 53 mm.
- Anchor length: 130 mm.
- Embedment depth: 157 mm.

- KSN16M:

- Nominal external diameter: 28 mm.
- Metric thread: M20 x 2.5.
- Nominal head width: 61 mm.
- Nominal head A/F: 53 mm.
- Anchor length: 160 mm.
- Embedment depth: 187 mm.

- KSN16L:

- Nominal external diameter: 28 mm.
- Metric thread: M20 x 2.5.
- Nominal head width: 61 mm.
- Nominal head A/F: 53 mm.
- Anchor length: 190 mm.
- Embedment depth: 217 mm.

- KSN20S:

- Nominal external diameter: 32 mm.
- Metric thread: M24 x 3.0.
- Nominal head width: 75 mm.
- Nominal head A/F: 65 mm.
- Anchor length: 150 mm.
- Embedment depth: 177 mm.

- KSN20M:

- Nominal external diameter: 32 mm.
- Metric thread: M24 x 3.0.
- Nominal head width: 75 mm.
- Nominal head A/F: 65 mm.
- Anchor length: 190 mm.
- Embedment depth: 217 mm.

- KSN20L:

- Nominal external diameter: 32 mm.
- Metric thread: M24 x 3.0.

- Nominal head width: 75 mm.
- Nominal head A/F: 65 mm.
- Anchor length: 230 mm.
- Embedment depth: 257 mm.

Product specification

Manufacturer

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- Product reference
KSN12S - For use with 12 mm diameter reinforcing bar.
KSN12M - For use with 12 mm diameter reinforcing bar.
KSN16S - For use with 16 mm diameter reinforcing bar.
KSN16M - For use with 16 mm diameter reinforcing bar.
KSN16L - For use with 16 mm diameter reinforcing bar.
KSN20S - For use with 20 mm diameter reinforcing bar.
KSN20M - For use with 20 mm diameter reinforcing bar.
KSN20L - For use with 20 mm diameter reinforcing bar.

- Horizontal spacing [_____]