

Ancon Building Products

n55Plus



Shear load connectors

By Ancon Building Products

Detailed description

In most cases dowelled or keyed joints can be replaced by joints incorporating shear load connectors. These connectors are more effective at transferring load and allowing movement to take place. They are easier to fix on site and can prove a more cost effective solution.

Connectors can be used for movement joints in floor slabs, suspended slabs, and for replacing double columns and beams at structural movement joints.

Options

Product reference:

–DSD shear load connectors:

- Two-part, double dowel connector.
- Will accommodate longitudinal movement.
- Has design capacities from 20 kN to over 950 kN.
- Use where joint widths are up to 60 mm wide.

–DSDQ shear load connectors:

- Two-part, double dowel connector.
- Will accommodate longitudinal and lateral movement.
- Has design capacities from 30 kN to over 950 kN.
- Use where joint widths are up to 60 mm wide.

- E-HLD shear load connectors;

- Single dowel connector.
- Has design capabilities from 19 kN to over 302 kN.
- Used for joining new concrete slabs to existing concrete walls in basement construction.
- Use where joint widths are up to 60 mm wide.

–ESD shear load connectors:

- Single dowel connector.
- Will accommodate longitudinal movement
- Has design capacities from 19 kN to over 75 kN.
- Used where joint widths are up to 40 mm wide.

–ESDQ shear load connectors:

- Single dowel connector.
- Will accommodate longitudinal and lateral movement.
- Has design capacities from 10 kN to over 25 kN.
- Use where joint widths are up to 40 mm.

–ED shear load connectors:

- Single dowel connector.
- Will accommodate longitudinal movement.
- Has design capacities from 19 kN to over 75 kN.
- Use where joint widths are up to 40mm wide.

– Multi Joint:

MultiJoint is an all-in-one solution to load transfer, concrete contraction, armoured edge protection and formwork. It is ideal for use in factories, warehouses, distribution centres and other applications where floor slabs are subject to high loads and wheeled traffic. Its use can minimise slab depth, saving time and materials, and prevent uneven vertical settlement between slabs.

– Staisil Acoustic dowel:

- Single dowel connector.
- For the transfer of shear and limitation of sound transmission across movement joints in concrete structures.
- A reduction of 20 dB can be achieved in the 100–3150 Hz frequency range.

- ESDQ-L20 Lockable dowel:

The dowel component is manufactured from 30 mm diameter Duplex stainless steel; one end is threaded with a fixed nut and washer, and the other features a series of grooves to accept the Locking Plate. The cylindrical sleeve which accepts the dowel component is contained within a box-section to allow lateral, longitudinal and some rotational movement. The epoxy resin is poured into the L-shaped void former. This product has a design capacity of almost 70kN.

- ESDQ-L20W Lockable dowel:

As ESDQ-L20, but shorter dowel. One end of the dowel is designed to fix into the stainless steel Ancon SKS24 Threaded Anchor cast into the face of the concrete and the other end features a series of grooves to accept the Locking Plate. The sleeve component is the same as used in the ESDQ-L20.

- HLDQ-L30 Lockable dowel:

The HLDQ-L30 is a high load lockable dowel with a design capacity of up to 136kN.

Product specification

Manufacturer

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Product reference
DSD shear load connectors
DSDQ shear load connectors
E-HLD shear load connectors
ESD shear load connectors
ESDQ shear load connectors
ED shear load connectors
Multi Joint
Staisil acoustic dowel

Code
Not applicable
18 - E-HLD only.
22 - E-HLD only.
24 - E-HLD only.
25 - DSD only.
30 - DSD, DSDQ and E-HLD.
35 - E-HLD only.
40 - E-HLD only.
50 - DSD and DSDQ.
52 - E-HLD only.
65 - DSD and DSDQ.
75 - DSD and DSDQ.
80 - Multijoint (MJ) only.
100 - DSD and DSDQ.
110 - Multijoint (MJ) only.
130 - DSD, DSDQ and Multijoint (MJ).
150 - DSD and DSDQ.
160 - Multijoint (MJ) only.
400 - DSD and DSDQ.
450 - DSD and DSDQ.
10 300 - ED, ESD and ESDQ.
10 400 - ED, ESD and ESDQ.
15 300 - ED, ESD and ESDQ.
15 400 - ED, ESD and ESDQ.
20 300 - ED, ESD and ESDQ.
20 400 - ED, ESD and ESDQ.
25 350 - ED, ESD and ESDQ.
25 470 - ED, ESD and ESDQ.

Dowel
ADD75/10 - Ancon Dominator Dowel.
AHM 100/10 - Ancon Hi-Move Dowel.
ESDQ-L20 - Lockable dowel. For use with ESDQ shear load connectors. Slab-to-slab applications.
ESDQ-L20W - Lockable dowel. For use with ESDQ shear load connectors. Slab-to-wall applications.
HLDQ-L30 - High load lockable dowel.