FORTEC

The Ultimate Splicing System

Dextra

Dextra Fortec solution available at THREADLINK

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FORTEC

CARBON LITE COUPLER
Trusted Solutions - Lower Carbon Impact

Product features

Fortec® is a parallel threaded mechanical splicing system designed for the connection of concrete reinforcing bars from Ø12 to 50 mm (ASTM #4 to #18).

Fortec® couplers are designed and manufactured in compliance with Eurocode 2, BS 8110, DIN 1045, ACI 318, IBC, AASHTO, ASME Sec III Div 2.

What we mean by Carbon Lite Coupler

Dextra's Carbon Lite Coupler option uses steel made via Electric Arc Furnace (EAF) routes with high recycled content, cutting the embodied carbon of our rebar couplers, without changing the mechanical performance, approvals or certifications.

- **Same Performance**
- **Same Quality Certifications**
- **Same Environmental Certifications**
- **50% Lower Environmental Impact**

Fortec BF standard connection, Carbon Lite Coupler is standard offer for EU markets. The rest of the world will be available upon request.

Benefits

- One standard coupler for all splicing requirements (Standard / Position).
- Easy installation, no torque wrench required.
- No reduction of the bar cross section area.
- Allows full ductile elongation of bars.
- Type 2 coupler suitable for seismic areas.
- Tested under reverse cyclic conditions.
- Solves bar congestion problems.
- Individually marked to allow full traceability of the material.

Rebar preparation: A 3-step process

STEP 01 Cutting

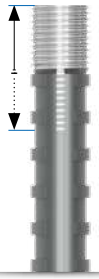
The end of the reinforcing bar is sawn square.

STEP 02 Cold forging

The sawn end of the reinforcing bar is then enlarged by a patented cold forging process. The core diameter of the bar is increased to a pre-determined size.

STEP 03 Threading

Finally, the enlarged end of the rebar is threaded to the required length.



Splicing methods

Standard splice (Type A)

Easy connection by bar rotation until full thread engagement. Thanks to the parallel thread:

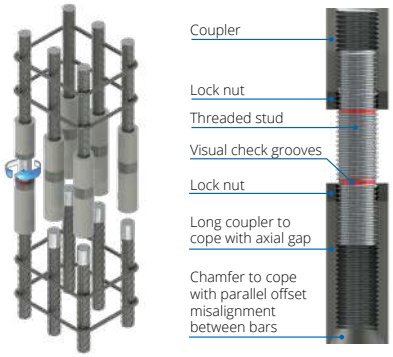
- No risk of thread mis-match.
- No risk of cross-threading.

Position splice (Type B)

Even when neither bar can be turned, the Fortec® standard coupler can be used. First, engage the coupler onto the extended thread of the connecting bar (Step 1). Then bring the bars end to end and screw the coupler back onto the first bar until fully engaged (Step 2).

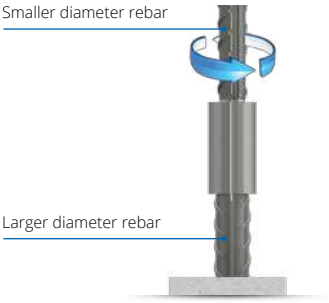
Position splice (Type C)

The Position splice Type C has an additional lock nut to maintain the continuation bar in a determined position.



Bridging splice

To connect bars that can't be brought butt to butt, Fortec® Bridging Splice is your solution. This is often the case with complex prefabricated cages.



Transition splice

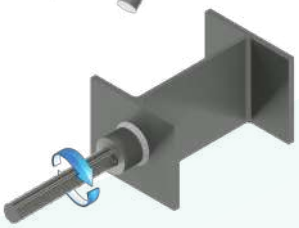
When bars of different sizes need to be spliced, it is not always possible to reduce the size of the larger bar end and use a standard coupler. For such cases, the Fortec® system offers transition couplers that conveniently avoid the difficult task of planning in advance the need of transitions.

Headed Bars

Also called "End Anchors", they are a convenient alternative to hooked bars to provide end anchorages in congested areas. Fortec® standard anchorage heads are circular and have a net bearing area of 4 times or 9 times the cross-section of the bar. The large Headed Bar is an ETA-assessed and CE-marked solution.

Weldable couplers

For composite construction where concrete reinforcement bars must be welded to structural steel, use Fortec® weldable couplers, which are specially made from low carbon steel and have a large chamfer for bevel welding.



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Applications

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