



Cut and Bent

Dowel bar

Tying wire

Rebar

Stainless steel Dowel Bar

Cogne Stainless Reinforcement UK Ltd, services the Civil engineering sector of the UK and Ireland direct from its base in Sheffield.

Cogne Stainless Reinforcement UK Limited are committed to servicing the UK market for the supply of stainless steel Rebar, Dowel bar, Mesh and associated stainless steel products for construction applications.

Description

Concrete slab dowel bars are used to transfer the load from one slab to another whilst permitting axial thermal expansion along the axis of the dowel.

Austenitic stainless steel dowel bars are generally produced from plain round material. They provide a durable, corrosion resisting solution to connections in concrete or other structural applications. Available in a range of sizes, material grades and strengths, there is a suitable dowel bar for most requirements.

BS 6744 round bar is supplied in the standard diameters and in the grades shown in the table below.

BS 6744 Strength grade	02% proof n/mm ²	Ultimate tensile Stress n/mm ²
200	200	220
500	500	550
650	650	715

Please check availability of 650 grade bar before purchase.

Bar grade selection

Generally the grade 1.4301 is selected for the non marine and areas away from high chloride concentration. For road bridge expansion joints and similar applications we would suggest that 1.4401 or 1.4436 is used; with their



superior Pitting Corrosion and Chloride resistance. See the Cogne technical bulletin "Stainless steel reinforcement for concrete structures" this provides references for the most appropriate selection of steel grade for any particular application.

BS10088 Grade	BS970 Grade
1.4301	304S31
1.4401	316S31
*1.4436	316S33
*1.4307	304L (AISI)
*1.4462	318S13 Duplex

*Please check availability before ordering.

Specification Options

Dowel bar ends are typically sawn and therefore clean of burrs. If this is not a requirement, then the more economic sheared ends may be supplied, this should be clearly indicated at order stage.

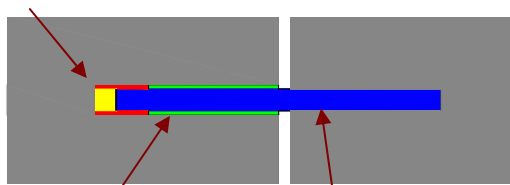
Quality

Much of the steel supplied by Cogne Stainless Reinforcement UK is from the Italian Mill Cogne Acciai Specialai S. R. L. which has recently been awarded certification by UK CARES for concrete reinforcement products affirming our continued commitment to quality.

Sleeves and Caps

To complement the dowel bars there is a full range of de-bonding sleeves and

Expansion cap and foam



Debond sleeve

Dowel

expansion caps. For the larger size bars and the longer de-bond sleeves a rigid tube has been adopted to ease the installation of the tube onto the bar.

Other accessories are available; such as chairs, prefabricated structural shear assemblies and bespoke supports for the dowels.

Dowel Bar size mm	De-bond Length mm
12	450
16	200
20	300
25	250
32*	375
40*	400
50*	500

*Rigid de-bond tubes

Stock

Cogne Stainless reinforcement UK Ltd. not only hold a full stock of stainless reinforcing bar, in grades 1.4301 and



1.4436 and but also offers a comprehensive cut and bend service. This enables rebar to be supplied at mill prices and be delivered direct to your site. Service is assured with access to over 2000 tonnes of stock in the UK as well as the production facilities of the Rolling Mill in Italy.

Other products available from Cogne Stainless reinforcement UK Limited are:

- Reinforcing bar to BS 6744
- Mesh fabric generally in accordance with BS 4483
- 1.2 mm Grade 1.4301 Tying wire
- Reinforcing accessories

For information please call our sales desk

Cogne Stainless Reinforcement UK Limited has taken care to ensure that this information is accurate but it cannot be responsible omissions or for interpretation of the details, nor is any liability implied or accepted.

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