

STAINLESS STEEL REINFORCED BAR



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CARES CERTIFIED

Steel material	EN: 1.4436, 1.4362, 1.4462, 1.4482 UNS: S31603, S32304, S32205, S32101
Standard	BS 6744 ASTM A955/A955M GB/T 33959
Diameter	8mm - 50mm
Length	12m (Tailored length)

UNS	ASTM	EU Norm	Corrosion Resistance		
			PREn	CPT	CCTL
S31603	316LN	1.4436	25	≈75°F	≈5.3%
S32304	2304	1.4362	26	≈73°F	≈6.5%

Diameter (mm)		8	10	12	14	16	18	20	22	25	28	32	36	40	50
Weight (kg/m)	1.4436 (316LN)	0.40	0.63	0.91	1.23	1.61	2.04	2.51	3.04	3.93	4.93	6.43	8.14	10.05	15.71
	1.4362 (S32304)	0.39	0.61	0.88	1.20	1.57	1.98	2.45	2.96	3.83	4.80	6.27	7.94	9.85	15.30

A large tunnel under construction, showing the interior structure with concrete segments and stainless steel dowel bars. The text "STAINLESS STEEL DOWEL BAR" is overlaid in large, bold, dark blue letters. The background shows the tunnel's interior with concrete segments and a person visible in the distance.

STAINLESS STEEL DOWEL BAR

INTEGRATED SOLUTION FOR DOWEL BAR

Compare with epoxy coated and galvanized dowel bar, stainless steel dowel bar possess excellent properties when facing complex concrete structures and life cycle environment. Furthermore, Fusteel provide multiple grades of dowel bar including strength 500Mpa and 250Mpa that can ensure the structure services life over 120 years.



Material	EN: 1.4401/1.4404, 1.4462, 1.4362 ASTM/UNS: 316/316L, S32205, S32304
Steel Grade	Grade 250 Grade 500
Diameter	16mm - 60mm

Diameter (mm)		16	20	25	28	30	32	36	40	50	60
Weight (kg/m)	1.4404 (316L)	1.609	2.514	3.927	4.926	5.655	6.434	8.138	10.053	15.708	22.608
	1.4362 (S32304)	1.569	2.451	3.829	4.803	5.507	6.266	7.930	9.790	15.297	22.028
	1.4462 (S32205)	1.569	2.451	3.829	4.803	5.507	6.266	7.930	9.790	15.297	22.028



North Field Expansion Project
Stainless steel rebar



Dukhan Expressway Project
Stainless steel dowel bar & rebar



New Orbital Highway Project
Stainless steel dowel bar & rebar



Al Khor Expressway Project
Stainless steel dowel bar & rebar



Al Rayyan Road Project
Stainless steel dowel bar & rebar

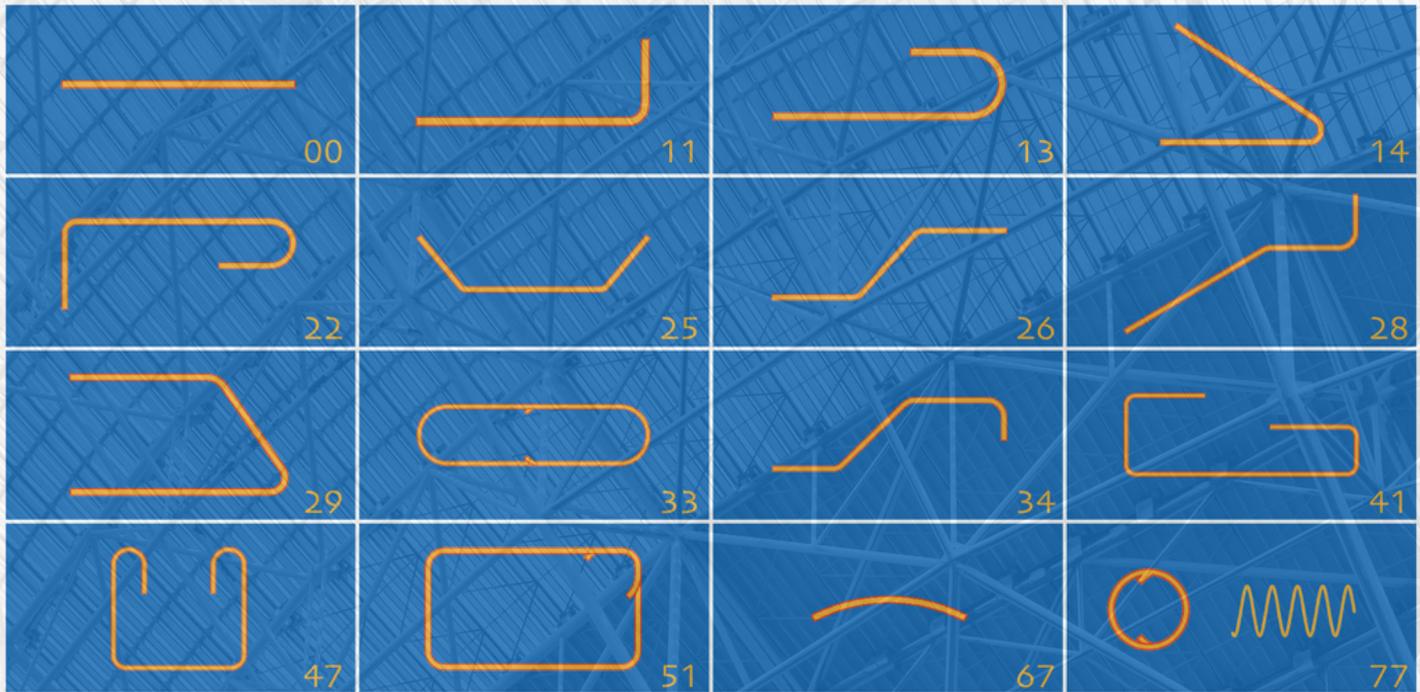
CUT BEND THREAD

Stainless Steel Rebar



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Regular shape codes to BS8666



Extra BS 8666 shape codes that are supplied.

Nominal masses

Bar Diameter (mm)	Mass per metre (kg)	Metres per tonne (m)	Cross sectional area (mm ²)
8	0.392	2551	50.3
10	0.612	1634	78.5
12	0.882	1134	113.1
16	1.569	637	201.1
20	2.451	408	314.2
25	3.829	261	490.9
28	4.803	208	615.8
32	6.266	160	804.2
36	8.052	124	1017.9
40	9.790	102	1256.6
50	15.297	65	1963.5

Mass values refer to steel designations 1.4362(s32304).



Dimensional tolerances for cuts and bends

Straight length cutting (including reinforcement for subsequent bending)	±25mm
Bending:	
≤ 1m	±5mm
> 1m ≤ 2m	+5mm -10mm
> 2m	+5mm - 25mm

We also accessible:

- Straight lengths up to 15m
- Stainless steel fabric mesh to BS 4483 mesh sizes
- Stainless steel dowel bars and sleeves
- Stainless steel rebar couplers
- Stainless steel wire
- Threaded bar
- Epoxy coated rebar

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EPOXY COATED DOWEL BAR

Epoxy coated dowel bars are short steel bars that provide a mechanical connection between slabs without restricting horizontal joint movement. They increase load transfer efficiency by allowing the leave slab to assume some of the load before the load is actually over it. This reduces joint deflection and stress in the approach and leave slabs.

Epoxy coated dowel bars are used in Highways, Airports and High speed rails, which provide a durable, corrosion resisting solution to connections in concrete or other structural applications.



Description

Dowel Bar Standard	ASTM A1078/A1078M
Steel Grade	Gr40, Gr60, Gr75
Steel Standard	ASTM A615/A615M
Coating Technic	Fusion-bonded epoxy powder
Powder Brand	Valspar, Jotun, 3M
Coating Standard	ASTM A775/A775M, ASTM A934/A934M
Normal Diameter	16, 20, 22, 25, 30, 36, 38, 40 mm
Tailored Size	16mm-50mm (5/8"-2")
Length	from 100mm to 1m (+/- 5mm)
Delivery Time	1 month

Theoretical Weight

Diameter (mm)	16	20	22	25	30	36	38	40
Weight (kg/m)	1.58	2.47	2.98	3.85	5.55	7.99	8.95	9.87