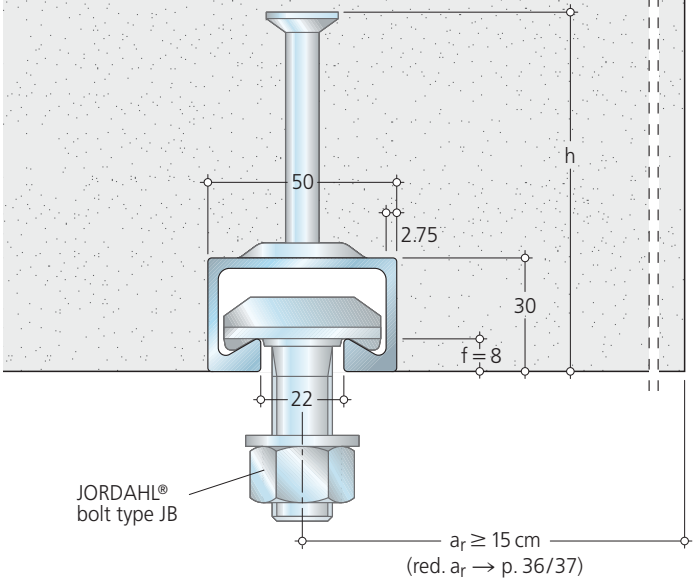
Anchor channel type JTA W 50/30 and K 50/30

JTA W 50/30

Load range 10.0 und 12.0 kN
14.0 and 16.8 kN

2.4 kN

Weight with anchors: 3.50 kg/m[5)]



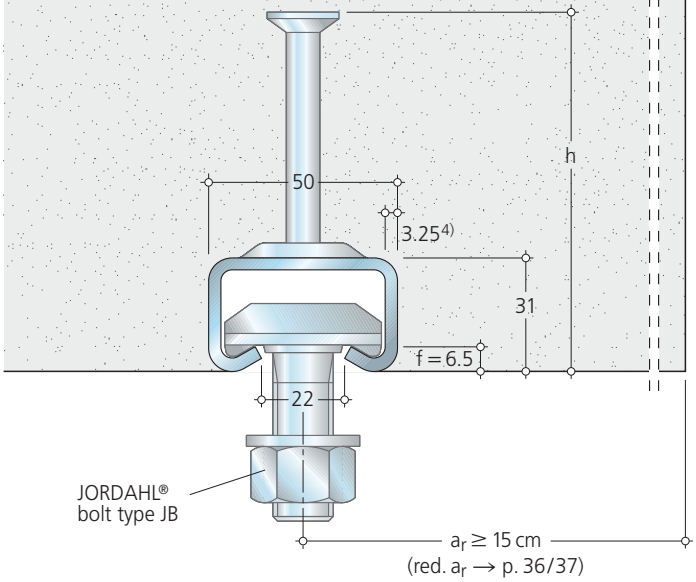
JTA K 50/30

Weight with anchors: 3.30 kg/m[5)]

Design resistance to Eurocode

$F_{Rd} = perm.\ F \times 1.4$

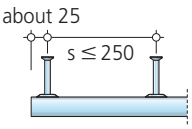
The design values of the load bearing capacities are shown in *italics* in the tables.



Type	JTA W 50/30			JTA K 50/30		
Material Design	S235JR fv, wb		1.4401/1.4404/1.4571 (A4) Round anchor A4	S235JR fv, wb		1.4401/1.4404/1.4571[3)] (A4) Round anchor A4
permissible point load [kN][1)] ≥ C 20/25	permitted for dynamic loads			10.0/12.0 *14.0/16.8*		
	10.0/12.0 *14.0/16.8*					
Anchor design[2)]	R	I 60	R	R	I 60	R
Installation height h [mm]	105	90	105	105	90	105
Filler	Polystyrene filling (PS) or polyethylene filling (PE) (Supply not binding)			Polystyrene filling (PS) or polyethylene filling (PE) (Supply not binding)		

1) *Max. permissible load as per Building Approval. The second value applies to short pieces 100/150/200/250 mm. Permissible loads for the respective application → p. 33, C20/25 ≙ B25.*
2) *Anchor design: R = round anchor (standard design); I = weld-on anchor in exceptional cases. Supply not binding.*
3) *Can also be supplied upon request in stainless steel 1.4529/1.4547 for corrosion resistance class IV.*
4) *t = 3.0 mm in A4 design.*
5) *Weight per metre for mill finish steel*
(for galvanized profiles: weight per metre × 1,10)
(for stainless steel: weight per metre × 1,02)

Lengths supplied: JTA W 50/30, K 50/30



	Length [mm]	Anchor (no.)	Anchor spacing s
Short pieces	100	2	50
	150	2	100
	200	2	150
	250	2	200
	300	2	250
	350 – 550	3	≤250
	600 – 800	4	≤250
	850–1050	5	≤250
Cut lengths	1050 < L < 6000 on request		≤250
Stock lengths	6000 (–0/+50)	25	≤250

Ordering example Anchor channels

JTA - K 50/30 - 1050 - fv

Type | Profile | Length [mm] | Design

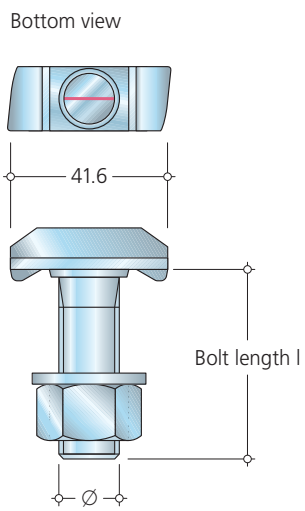
Ordering example JORDAHL® bolts type JB

JB - M 20 × 55 - gv

Type | Thread Ø | Length [mm] | Design

Pipe suspension under a bridge. Short anchor channel pieces for series fixings with optimum possible adjustment.

JORDAHL® bolts type JB



gv 4.6 = electrogalvanized in strength class 4.6
fv 4.6 = hot-dip galvanized in strength class 4.6
fv 8.8 = hot-dip galvanized in strength class 8.8
A4-50 = stainless steel 1.4401/1.4404/1.4571 in strength class 50
FA-70 = stainless steel 1.4462 in strength class 70

Bolt range JB

Length l [mm]	JB M 10	JB M 12	JB M 16	JB M 20
30	gv 4.6	gv 4.6 A4-50	gv 4.6 A4-50	
35				gv 4.6
40	gv 4.6	gv 4.6 A4-50	gv 4.6 A4-50	
45				gv 4.6 A4-50
50	gv 4.6	gv 4.6 A4-50	gv 4.6, fv 4.6 A4-50	
55				gv 4.6 A4-50
60		gv 4.6	gv 4.6 fv 4.6, fv 8.8 A4-50	
65				gv 4.6, fv 8.8
75				gv 4.6 A4-50
80	gv 4.6	gv 4.6	gv 4.6, fv 4.6 A4-50	
100		gv 4.6 A4-50	gv 4.6	gv 4.6, fv 8.8 A4-50 FA-70
125		gv 4.6	gv 4.6	gv 4.6 A4-50
150		gv 4.6	gv 4.6 A4-50	gv 4.6 A4-50 FA-70
200		gv 4.6	gv 4.6	gv 4.6
300			gv 4.6	gv 4.6

Locking plates JGM B, M 6–16

gv, A4
→ p. 56

Notched toothed bolt

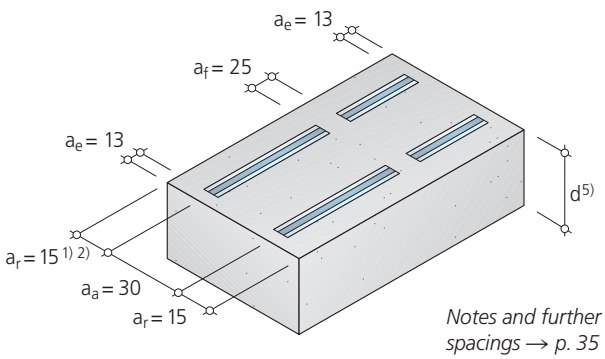
Grade 8.8, fv
→ p. 41, 54
- JKB M 16 × 60 perm. F = 5.0 kN with M_A = 200 Nm
- JKB M 20 × 60 perm. F = 7.5 kN with M_A = 400 Nm
- Application only in hot-rolled profiles fv

Permissible bolt loads
under tension, oblique tension or shear load

Type Ø	Recommended tightening torque M_A [Nm] 4)	Permissible load perm. F 1) / F_{Rd} [kN]		Permissible bending moment perm. M 2) 3) / M_{Rd} [Nm]	
		4.6	A4-50	4.6	A4-50
JB M 10	15	6.4 *9.0*	6.4 *9.0*	10.0 *14.0*	8.7 *12.2*
JB M 12	25	9.3 *13.0*	9.3 *13.0*	17.5 *24.5*	15.3 *21.4*
JB M 16	60	17.3 *24.2*	17.3 *24.2*	44.4 *62.2*	38.8 *54.3*
JB M 20	120	27.0 *37.8*	27.0 *37.8*	86.5 *121.1*	75.7 *106.0*

Notes → p. 40

Associated edge spacings [cm]



Notes and further minimum spacings → p. 35