
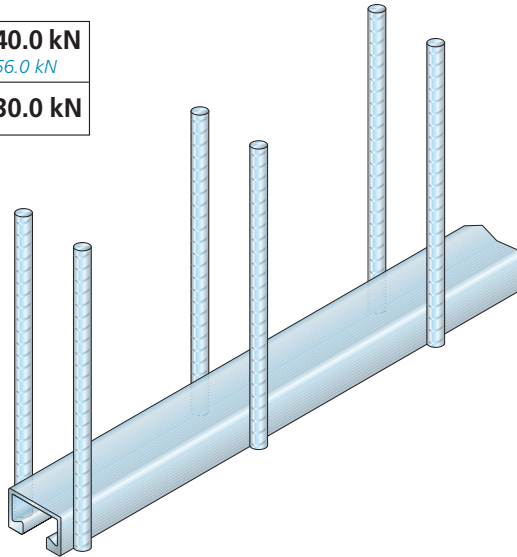


Anchor channel type JRA W 74/48

JORDAHL® anchor channel JRA, the solution for extremely high static and dynamic loads.

Load range 40.0 kN
56.0 kN
 **30.0 kN**



Anchor channel type JRA with reinforced concrete anchors welded on both sides.

Materials					
Channel			Anchor s ≤ 250 mm		Channel with anchor ¹⁾ Weight [kg/m]
Profile	Material	Design	∅	Material	
W 74/48	Steel	hot-dip galvanized ≥ 50 µm	14 mm	BSt 500 S	14.0

1) With anchor length $L_{total} = 40$ cm

System and materials

JORDAHL® anchor channels JRA consist of **W 74/48** profiles with reinforced concrete anchors welded on at the sides. The system may be adapted to many areas of application. Other profile sizes can also be provided with reinforced concrete anchors in special solutions. They should be certified in the individual case.

Load capacity

JRA W 74/48 is suitable for absorbing extremely high static and dynamic loads. The construction has been tested by the German Federal Institute for Materials Testing under the number 2.2/20247.

On the basis of experimental data with a load range of $F_o - F_u = 38$ kN, with an upper load of $F_o = 40$ kN, these anchor channels have passed the long-term stress capability test for fatigue load ranges of up to 30 kN.

Applications

Typical areas of use are crane and conveyor systems, power plants and protective room constructions.

Lengths supplied

Short pieces in lengths beginning at 150 mm, and also lengths by the metre, fixed lengths on request.

Ordering example

JRA - W 74/48 - 6000 - fv
 Type Profile Length [mm] Design
 Anchor $L_{total} = 460$ mm

Reinforced concrete anchors

Material

The anchors consist of BSt 500 S to DIN 488.

Anchoring length l_{bnet} of the reinforced concrete anchors to EC 2

The reinforcing steels must be anchored with the anchoring length l_{bd} in the component compression zone. The anchoring length is calculated from half the component height plus the anchoring length l_{bd} and must be specified with the order.

Length of the reinforced concrete anchor, calculation example

$$L_{total} = H/2 + l_{bd} \text{ [cm]}$$

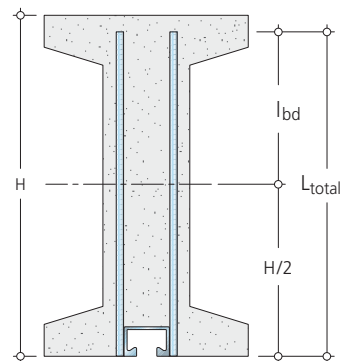
Anchor length L_{total} = length from the outer edge of the channel profile as far as the top edge of the reinforced concrete anchor. Please specify when ordering.

H = height of the reinforced concrete component

l_{bd} = anchoring length to Eurocode EC 2

Reinforced concrete anchor as part of the reinforcement

The reinforced concrete anchors can be included in the shear reinforcement, given suitable components and reinforcement design.



Concrete	Anchoring length l_{bd} [cm] to EC 2, BSt 500 S, ∅ 14, good bonding conditions	
	Straight rod ends	Hooks, angled hooks
C20/25 △ B 25	28	19
C30/37 △ B 35	21	15
C35/45 △ B 45	19	13