

Locking plates

Use

JORDAHL® locking plates can be used at any point on the JORDAHL® channel. As a result of a 90 degree rotation after being inserted or tilted in, the threaded hole is at the centre. Locking plates are preferably used for stand-off mounting with long bolts or threaded rods. Because of the hidden installation, they are not approved by the German Institute for Structural Engineering.

Hooked-head locking plates

They are forged with an accurate shape and therefore ensure that they do not rotate back. In order to make installation easier, we recommend a thin strip of foam inside the channel, behind the locking plate.

Hammerhead locking plates

Hammerhead locking plates can be used for the temporary fixing of components of lesser importance. They clamp without a particular form fit like the hook-head locking plates.

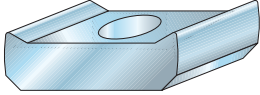
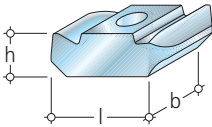

On request, we also produce captive strips suitable for fixed thread spacings.

Design resistance to Eurocode

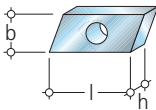


$$F_{Rd} = perm. F \times 1.4$$

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

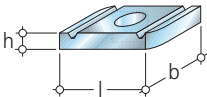
Hook-head locking plates (forged)

	Type	Geometry l × b × h	with thread	perm. load ¹⁾ [kN] <i>F_{Rd} [kN]</i>	Design	associated profile
		JGM A	57 × 31 × 22	M 20	27.0 <i>37.8</i>	gv
	JGM B	41 × 21 × 16	M 6	2.2 <i>3.1</i>	gv; A4	K 48/26 W 50/30 K 50/30 K 50/40 W 53/34 K 53/34 W 54/43
			M 8	4.0 <i>5.6</i>		
M 10			6.4 <i>9.0</i>			
M 12			9.3 <i>13.0</i>			
		41 × 26 × 16	M 16	12.0 <i>16.8</i> 17.3 ²⁾ <i>24.2</i>		
	JGM C	32 × 17 × 11	M 6	2.2 <i>3.1</i>	gv; A4	W 40/22 K 40/25 K 40/22
			M 8	4.0 <i>5.6</i>		
			M 10	6.4 <i>9.0</i>		
			M 12	8.0 <i>11.2</i>		
		32 × 23 × 13	M 16	8.0 <i>11.2</i>		

Hammerhead locking plates JGM (flat steel)

	Type	Geometry l × b × h	with thread	perm. load ¹⁾ [kN] <i>F_{Rd} [kN]</i>	Design	associated profile
		JGM H	30 × 14 × 6	M 5	1.6 <i>2.2</i>	gv; A4
M 6				2.2 <i>3.1</i>		
M 8				4.0 <i>5.6</i>		
		30 × 18 × 8	M 10	6.4 <i>9.0</i>		
			M 12	7.0 <i>9.8</i>		
	JGM D	21 × 12 × 4	M 4	1.0 <i>1.4</i>	gv; A4	K 28/15 K 28/28 K 28/12
			M 5	1.6 <i>2.2</i>		
			M 6	2.2 <i>3.1</i>		
		21 × 12 × 6	M 8	3.5 <i>4.9</i>		
		18 × 14 × 6	M 10	3.5 <i>4.9</i>		
	JGM G	16 × 12 × 4	M 4	1.0 <i>1.4</i>	gv; A4	K 21/12
			M 5	1.6 <i>2.2</i>		
			M 6	2.2 <i>3.1</i>		
		16 × 12 × 6	M 8	2.5 <i>3.5</i>		

Channel nuts

	Type	Geometry l × b × h	with thread	h	perm. load ¹⁾ [kN] <i>F_{Rd} [kN]</i>	Design	associated profile
		JAM 22	35 × 20	M 6	6	2.2 <i>3.1</i>	gv
M 8				6	4.0 <i>5.6</i>		
M 10				8	6.4 <i>9.0</i>		
M 12				9.5	8.0 <i>11.2</i>		
	JAM F 22 with spring						

1) The load bearing capacities of the anchor channels according to p. 33 and the mounting profiles according to p. 48/49 must be noted. The respectively smaller value is decisive.

2) 17.3 kN permissible only in the W53/34 and W54/43 profile.