

Product data sheet – Rod dowel

Product description

The rod dowel is a cylindrical bolt that has a chamfer at both ends for easier insertion. The rod dowel is suitable for both wood/wood joints and wood/steel joints. It is ideal for combination with our T-profile. The rod dowel is available in different diameters and lengths for an extremely wide range of applications. Please note the product table for this purpose.



Material

- S235

Advantages

- Easy to use
- Can be combined with the Eurotec T-profile and all common T-profiles
- Service classes 1 and 2
- Affordable alternative

Properties

Nominal diameter d [mm]	Length L [mm]	Char. yield moments M_{yk} [Nmm]
12	80 - 400	80,6
16	140 - 400	170,2
20	160 - 400	282,4

Approval



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Product table

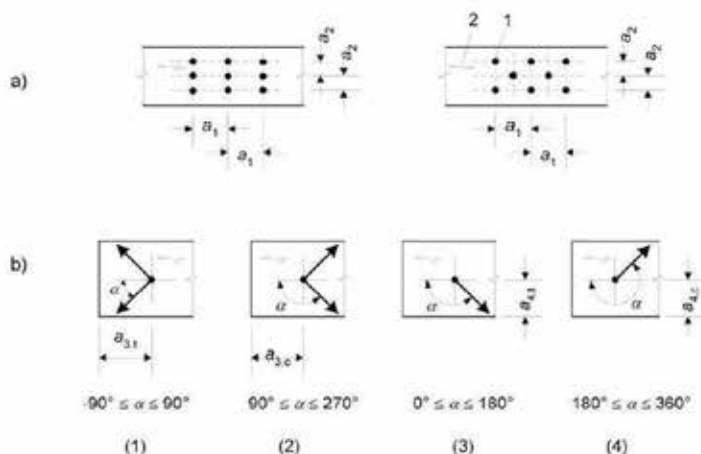
Rod dowel		
Art. no.	Dimensions Ød x L [mm]	PU
Diameter: 12		
800212	12 x 98	25
800213	12 x 118	25
800214	12 x 138	25
800215	12 x 158	25
800216	12 x 178	25
800217	12 x 198	25
800218	12 x 218	25
800219	12 x 238	25
800220	12 x 258	25
800221	12 x 278	25
800222	12 x 298	25
Diameter: 16		
800223	16 x 138	25
800224	16 x 158	25
800225	16 x 178	25
800226	16 x 198	25
800227	16 x 218	25
800228	16 x 238	25
800229	16 x 258	25
800230	16 x 278	25
800231	16 x 298	25
800241	16 x 340	25
800244	16 x 400	50
800243	16 x 480	15
800232	16 x 500	10
800242	16 x 580	10
Diameter: 20		
800233	20 x 158	20
800234	20 x 178	25
800235	20 x 198	25
800236	20 x 218	25
800237	20 x 238	25
800238	20 x 258	25
800239	20 x 278	25
800240	20 x 298	30

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References to the standard

Table 8.5 - Minimum distances between rod dowels

Distances (see Figure 8.7)	Angles	Minimum distances
a_1 (in the direction of the grain)	$0^\circ \leq \alpha \leq 360^\circ$	$(3 + 2 \cos \alpha) d$
a_2 (at a right angle to the direction of the grain)	$0^\circ \leq \alpha \leq 360^\circ$	$3 d$
$a_{3,1}$ (Stressed end of cross-grained wood)	$-90^\circ \leq \alpha \leq 90^\circ$	$\max(7 d; 80 \text{ mm})$
$a_{3,c}$ (Unstressed end of cross-grained wood)	$90^\circ \leq \alpha < 150^\circ$	$\max(a_{3,1} \sin \alpha) d; 3 d$
	$150^\circ \leq \alpha < 210^\circ$	$3 d$
	$210^\circ \leq \alpha \leq 270^\circ$	$\max(a_{3,1} \sin \alpha) d; 3 d$
$a_{4,1}$ (Stressed edge)	$0^\circ \leq \alpha \leq 180^\circ$	$\max[(2 + 2 \sin \alpha) d; 3 d]$
$a_{4,c}$ (Unstressed edge)	$180^\circ \leq \alpha \leq 360^\circ$	$3 d$



Legend

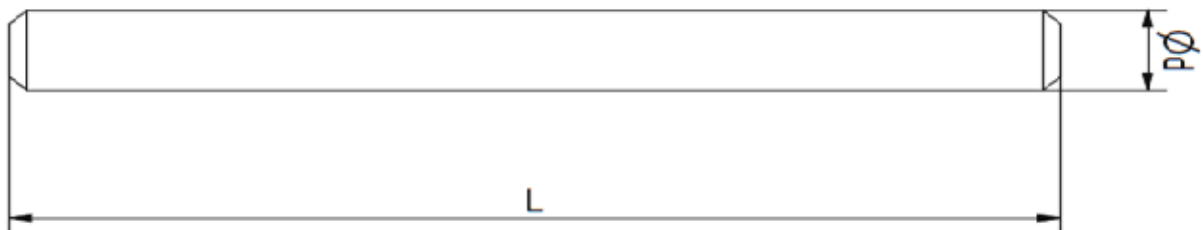
- (1) (Stressed end of cross-grained wood)
- (2) (Unstressed end of cross-grained wood)
- (3) (Stressed edge)
- (4) (Unstressed edge)
- 1 (Fasteners)
- 2 (Direction of the wood's grain)
- (a) Distances in the direction of the grain within a row and at a right angle to the direction of the grain between the rows
- (b) Distances from the end of cross-grained wood and from the edge

Instructions for use

During use, ensure that the distances from the axis and edge are observed. A drilling template must be used for the holes.

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Drawing



Images of applications



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If you are not familiar with how this product is used, and particularly with the product's intended use, please contact our Application Technology department (Technik@eurotec.team).