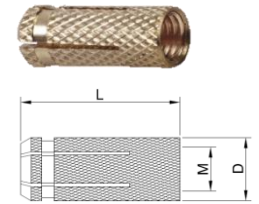


## GD-B

BRASS EXPANSION SLEEVE

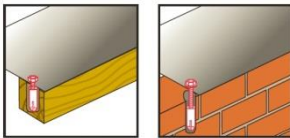


### PRODUCT DESCRIPTION

Brass expansion sleeves, grooved, with internal metric thread.

### APPLICATION

Designed for anchorages of statically loaded constructions in wood and full ceramic brick.



### LENGTH OF SLEEVE

Type	Dimensions M x D x L [mm]
GD-B	M6 x 8 x 23
GD-B	M8 x 10 x 28
GD-B	M10 x 12 x 33
GD-B	M12 x 15 x 38

## NATIONAL TECHNICAL ASSESSMENT KOT-2018/0748

Tabela 1

Dimension of sleeve type GD-B				
Parameter	dimensions [mm]			
	M6x8x23	M8x10x28	M10x12x33	M12x15x38
Thread diameter d, [mm]	M6	M8	M10	M12
Outer diameter of the sleeve D, [mm] (+/- 0,15 mm)	8	10	12	15
Length of sleeve L, [mm] (+/- 0,50 mm)	23	28	33	38

Tabela 2

Parameters of assembly and arrangement of GD-B sleeves in concrete, masonry or wood base				
Parameter	Rozmiar łącznika			
	M6	M8	M10	M12
Diameter of the drilled hole $d_{nom}$ , mm	8	10	12	15
Minimum hole depth $h_0$ , mm	25	30	35	40
Effective anchorage depth $h_{ef}$ , mm	23	28	33	38
The minimum thickness of the substrate $h_{min}$ , mm	80			
Minimum spacing of sleeves s, mm	200			
The minimum distance of the sleeves from the edge of the substrate c, mm	150			

Tabela 3

Characteristic resistance of GD-B for pulling out of the concrete substrate ( $N_{Rk}$ ) and on shear ( $V_{Rk}$ )					
Fastener size	Depth of drilled hole $h_1$ , mm	Effective anchorage depth $h_{ef}$ , mm	Characteristic resistance of GD-B for pulling out of the concrete substrate ( $N_{Rk}$ ) and on shear ( $V_{Rk}$ )		
			concrete <sup>1)</sup>	Masonry <sup>2)</sup>	Wood <sup>3)</sup>
M6	25	23	0,85	0,40	0,15
M8	30	28	1,20	0,90	0,55
M10	35	33	2,40	2,00	0,80
M12	40	38	3,50	2,50	1,00

<sup>1)</sup> concrete uncracked C20/25 - C50/60 according to: PN-EN 206+A1:2016  
<sup>2)</sup> ceramic brick class 20 according to: PN-EN 771-1+A1:2015  
<sup>3)</sup> Wood class C24 according to: PN-EN 338:2016

## OTHER FEATURES

BASE MATERIAL:

WOOD, CERAMIC BRICK FULL

HOLE DIAMETER:

8, 10, 12 15 [mm]

THREAD SIZE:

M6, M8, M10, M12



KDWU



ZKP

