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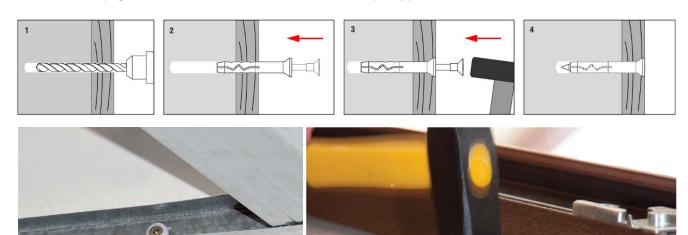
PRODUCT DATA SHEET – SMø8 and SMNø8

Section 1. PRODUCT DESCRIPTION

HAMMER DRIVE PLUG – SM/SMN



- 1. Original hammer drive plugs delivered by the manufacturer can be used only
- 2. Before installation identify a substrate in which the plug will be installed and compare loads which the plug will carry to resistance values given in Product Data Sheet or European Technical Assessment
- 3. Select an adequate length of the plug so that expansion zone is in the construction material of the wall (thickness of member being fixed matches max. usable length of the plug $-t_{fix}$)
- 4. Use proper method of drilling according to a substrate type (holes in masonry substrate made of autoclaved aerated concrete blocks should be drilled using a drill without impact)
- 5. Diameter of drilled holes should match diameter of the plugs used
- 6. Drilled holes in substrates of solid materials should be deeper by min. 10mm compared to the plug anchorage depth
- 7. Clean the holes in solid materials of drillings with a back and forth motion of the drill at a reduced speed
- 8. Then insert the plug into a drilled hole, and drive the screw until it completely penetrates the sleeve





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PRODUCT DATA SHEET – SMø8 and SMNø8

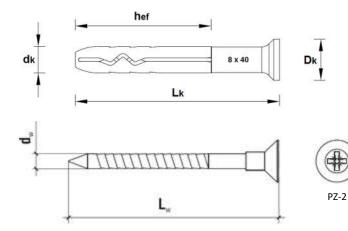
Section 3. TECHNICAL DATA

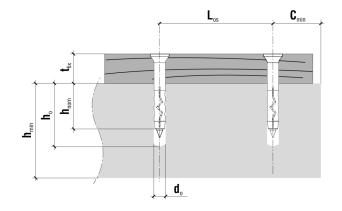
cuceory 77 C16/20 ÷ C50/60 category A)	Clay bricks MZ use category B)	silicate bricks KS category B)	silicate hollow blocks (use category C)	concrete blocks LAC category D)	utoclaved concrete blocks AAC 2 (use category E)	Autoclaved concrete blocks AAC 7 (use category E)
Concrete (use	Clay (use	Calcium s	Calcium silicate hollow KSL (use category	Lightweight cr (use c	Autoclaved cc AAC 2 (use	Autoclaved cc AAC 7 (use
,20 0,60/0,30	0,60/0,30	0,60/0,30	0,40/0,20	0,35/0,17	0,10/0,05	0,25/0,12
,37 1,00/0,50	1,00/0,50	1,00/0,50	1,00/0,50	0,60/0,30	0,50/0,25	0,70/0,35
D	single single<	si fill si fill si fill si fill si si fill si si	sn sn<	Operation Concrete (use Concrete (use Concrete (use No 0,60/030 0,60/030 00000	O,20 O,60/0,30 O,60/0,30 O,60/0,30 O,60/0,30 O,60/0,30 O,60/0,30 O,20 O,20 O,60/0,30 O,60/0,30 O,60/0,30 O,60/0,30 O,60/0,30 O,20 O,35/0,17 Image: Calcing and the calc	0.20 0.60/0.30 0.60/0.30 0.60/0.30 0.40/0.20 0.35/0.17 0.10/0.05

Partial safety factor for anchor resistance γ_M = 2,0

TECHNICAL PARAMETERS								
Parameter	Unit	Value						
rarameter	Onic	SM ø8	SMN ø8					
Plug diameter	d _k [mm]	8						
Hole/drill diameter	d₀ [mm]	8						
Effective anchorage depth	h _{eff} [mm]	40						
Drilled hole depth	h₀ [mm]	50						
Drive type	[-]	PZ-2						
Sleeve material	[-]	PE-HD	PA6					
Screw material	[-]	steel with electroplate coatings or non-electrolytically appl zinc flake coatings						
European Technical Assessment	[-]	ETA-19/0156						

INSTALLATION PARAMETERS								
Plug type	Min. substrate thickness	Min. distance from edge	Min. axial distance					
	h _{min} [mm]] c _{min} [mm]	L _{os} [mm]					
SM/SMN ø8	100	100	100					





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PRODUCT DATA SHEET – SMø8 and SMNø8

Anchor index electroplated coatings		Anchor sleeve				Expansion nail			t _{fix}
		h _{ef (ABCDE)}	L _k	d _k	D _k	Lw	d _w	Ds	-
	2	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
SM-08045	SMN-08045	40	45		11,5	50	4,9	11	5
SM-08050	SMN-08050		50	8		55			10
SM-08060	SMN-08060		60			65			20
SM-08080	SMN-08080		80			85			40
SM-08100	SMN-08100		100			105			60
SM-08120	SMN-08120		120			125			80
SM-08140	SMN-08140		140			145			100
SM-08160	SMN-08160		160			165			120

Anchor index zinc flake		Anchor sleeve				Expansion nail			t _{fix}
		h _{ef (ABCDE)}	Lĸ	dĸ	D _k	Lw	dw	Ds	-
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
SM-08045-D	SMN-08045-D	40	45			50 55	4,9	11	5
SM-08050-D	SMN-08050-D		50						10
SM-08060-D	SMN-08060-D		60		11,5	65			20
SM-08080-D	SMN-08080-D		80			85			40
SM-08100-D	SMN-08100-D		100	8		105			60
SM-08120-D	SMN-08120-D		120			125			80
SM-08140-D	SMN-08140-D		140			145			100
SM-08160-D	SMN-08160-D		160			165			120

Section 4. REMARKS

- 1. All previous versions of this Product Data Sheet shall cease to be valid
- 2. Data given in this Product Data Sheet is in accordance with current knowledge and published in good faith. KLIMAS Sp. z o.o. is not responsible for correctness and quality of the fixing if recommendations regarding method of use and installation are not followed.