

Section 1. PRODUCT DESCRIPTION

HAMMER DRIVE PLUG – SM

Hammer drive plug SM comprises a polyethylene sleeve and a countersunk head screw made of electroplated coatings or non-electrolytically applied zinc flake coatings steel. It is designed for fixing of wood and wood-based members. Increased head diameter ensures much better holding power of the elements being installed, and countersunk section provides reliable installation and eliminates damage to the screw when driving.

Types of substrates on which hammer drive plug SM can be installed:

- Normal concrete (use category A)
- Solid masonry (use category B)
- Hollow or perforated masonry (use category C)
- Lightweight aggregate concrete (use category D)
- Autoclaved aerated concrete (use category E)

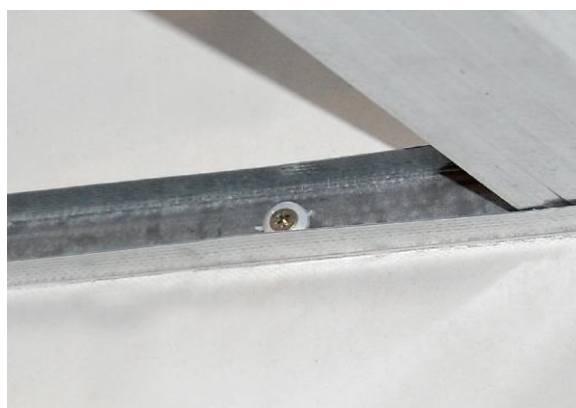
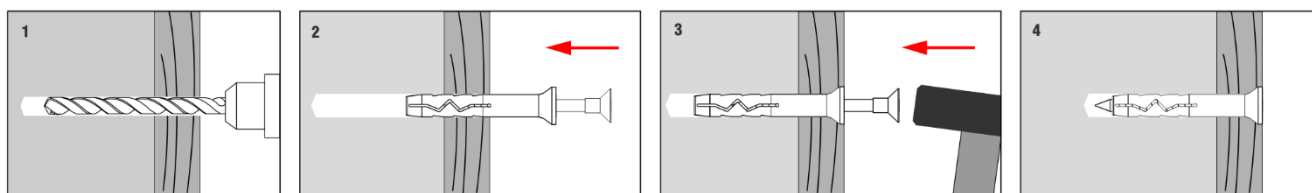
Hammer drive plugs hold European Technical Assessment: ETA-19/0156



SM (PE)

Section 2. METHOD OF INSTALLATION

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. 10 mm 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



Section 3. TECHNICAL DATA

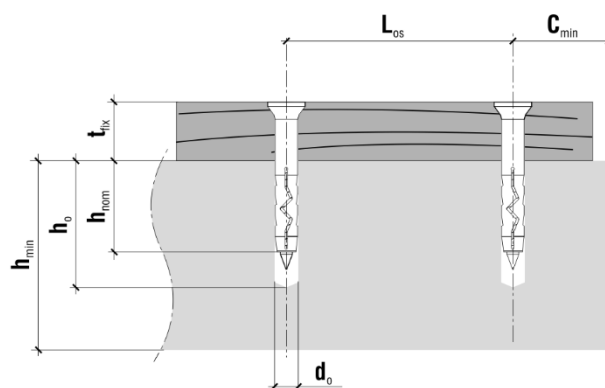
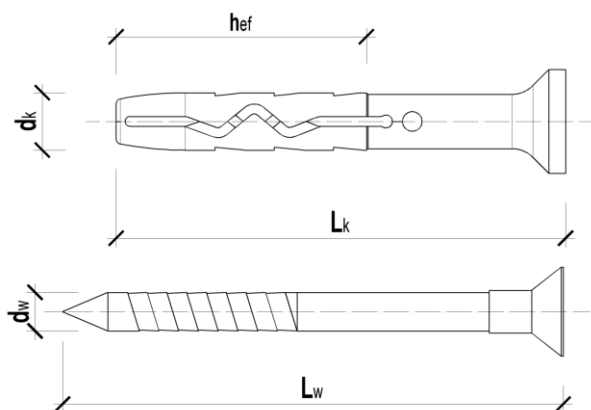
PRODUCT DATA SHEET – SMø6

Characteristic resistance [kN] / Design resistance [kN]								
Substrate type	Concrete C12/15 (use category A)	Concrete C16/20 ÷ C50/60 (use category A)	Clay bricks MZ (use category B)	Calcium silicate bricks KS (use category B)	Calcium silicate hollow blocks KSL (use category C)	Lightweight concrete blocks LAC (use category D)	Autoclaved concrete blocks AAC 2 (use category E)	Autoclaved concrete blocks AAC 7 (use category E)
SMø6	0,40/0,20	0,60/0,30	0,60/0,30	0,60/0,30	0,30/0,15	0,25/0,12	0,10/0,05	0,10/0,05

Partial safety factor for anchor resistance $\gamma_M = 2,0$

TECHNICAL PARAMETERS		
Parameter	Unit	Value
Plug diameter	d_k [mm]	6
Hole/drill diameter	d_o [mm]	6
Effective anchorage depth	h_{eff} [mm]	28
Drilled hole depth	h_o [mm]	40
Drive type	[-]	PZ-2
Sleeve material	[-]	PE
Screw material	[-]	steel with electroplated coatings or non-electrolytically applied zinc flake coatings
European Technical Assessment	[-]	ETA-19/0156

INSTALLATION PARAMETERS			
Plug type	Min. substrate thickness h_{min} [mm]	Min. distance from edge c_{min} [mm]	Min. axial distance L_{os} [mm]
SM ø6	100	100	100



PRODUCT DATA SHEET – SMø6

Anchor index <i>electroplated coatings</i>	Anchor sleeve				Expansion nail			t _{fix}
	h _{ef} (ABCDE)	L _k	d _k	D _k	L _w	d _w	D _s	-
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
SM-06035	28	35	6	10,5	40	3,9	9	7
SM-06040		40			45			12
SM-06050		50			55			22
SM-06060		60			65			32
SM-06070		70			75			42
SM-06080		80			85			52

Anchor index <i>zinc flake</i>	Anchor sleeve				Expansion nail			t _{fix}
	h _{ef} (ABCDE)	L _k	d _k	D _k	L _w	d _w	D _s	-
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]
SM-06035-D	28	35	6	10,5	40	3,9	9	7
SM-06040-D		40			45			12
SM-06050-D		50			55			22
SM-06060-D		60			65			32
SM-06070-D		70			75			42
SM-06080-D		80			85			52

Section 4. REMARKS

- All previous versions of this Product Data Sheet shall cease to be valid
- Data given in this Product Data Sheet is in accordance with current knowledge and published in good faith.
 Wkręt-met 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.