

SM

Hammer drive plug Ø5, Ø6, Ø8, Ø10 **POLYPROPYLENE**

SMN

Hammer drive plug Ø5, Ø6, Ø8, Ø10 **NYLON**



AT-15-9031/2012

Description

Plug for fixing of wood and wood-based members

Technical data

Type of installation push-through installation

Substrate concrete, solid clay brick, calcium silicate brick, autoclaved aerated concrete

Sleeve material/protective coating



Features and advantages of the product



Better holding power

Increased head diameter ensures much better holding power of the elements being installed.



Secure fixing

Countersunk head is more solid with special underhead strengthening.



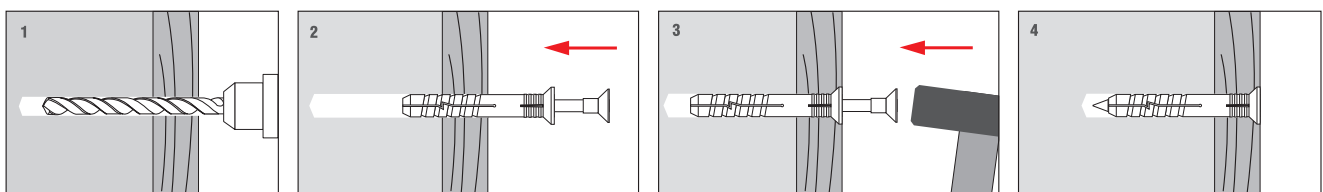
SUBSTRATE, MINIMUM THICKNESS, DISTANCE

Plug type	Min. member thickness h_{min} [mm]	Min. edge distance c_{min} [mm]	Min. spacing L_{os} [mm]
SM-5/SMN-5	60	30	60
SM-6/SMN-6	60	30	60
SM-8/SMN-8	80	40	80
SM-10/SMN-10	100	50	100

DESIGN PULL-OUT RESISTANCE [kN]

Substrate	SM-5	SMN-5	SM-6	SMN-6	SM-8	SMN-8	SM-10	SMN-10
Concrete C20/25	0.31	0.64	0.23	0.67	0.42	1.08	1.13	2.02
Solid clay brick	0.06	0.40	0.18	0.30	0.21	0.48	0.36	1.34
Calcium silicate brick	0.26	0.42	0.32	0.42	0.43	-	1.00	-
Autoclaved aerated concrete	0.10	0.08	0.13	0.11	0.23	0.20	0.30	0.44

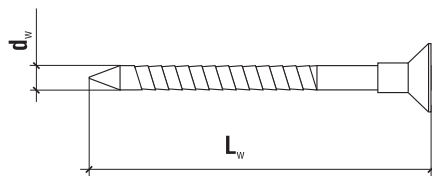
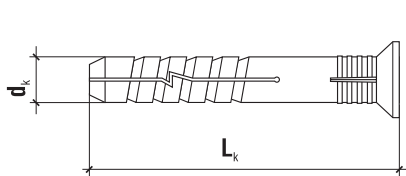
Installation



TECHNICAL DATA

Product marking

SMN	05	045
Type	Diameter	Length



PZ-2
PZ-3

	Code POLYPROPYLENE	Code NYLON	$d_k \times L_k$ [mm]	$d_w \times L_w$ [mm]	Max. fixture thickness t_{fix} [mm]	PZ	Pcs
ø5	SM-05045	SMN-05045	5 x 45	3.5 x 50	15	PZ 2	200
ø6	SM-06040	SMN-06040	6 x 40	3.9 x 45	10	PZ 2	200
	SM-06050	SMN-06050	6 x 50	3.9 x 55	20	PZ 2	200
	SM-06060	SMN-06060	6 x 60	3.9 x 65	30	PZ 2	200
	SM-06070	SMN-06070	6 x 70	3.9 x 75	40	PZ 2	100
	SM-06080	SMN-06080	6 x 80	3.9 x 85	50	PZ 2	100
ø8	SM-08045	SMN-08045	8 x 45	4.9 x 50	5	PZ 2	100
	SM-08060	SMN-08060	8 x 60	4.9 x 65	20	PZ 2	100
	SM-08080	SMN-08080	8 x 80	4.9 x 85	40	PZ 2	100
	SM-08100	SMN-08100	8 x 100	4.9 x 105	60	PZ 2	100
	SM-08120	SMN-08120	8 x 120	4.9 x 125	80	PZ 2	100
	SM-08140	SMN-08140	8 x 140	4.9 x 145	100	PZ 2	100
	SM-08160	SMN-08160	8 x 160	4.9 x 165	120	PZ 2	100
ø10	SM-10080	SMN-10080	10 x 80	6.9 x 90	30	PZ 3	50
	SM-10100	SMN-10100	10 x 100	6.9 x 110	50	PZ 3	50
	SM-10120	SMN-10120	10 x 120	6.9 x 130	70	PZ 3	50
	SM-10140	SMN-10140	10 x 140	6.9 x 150	90	PZ 3	50
	SM-10160	SMN-10160	10 x 160	6.9 x 170	110	PZ 3	50
	SM-10180	SMN-10180	10 x 180	6.9 x 190	130	PZ 3	50
	SM-10200	SMN-10200	10 x 200	6.9 x 210	150	PZ 3	50
	SM-10220	SMN-10220	10 x 220	6.9 x 230	170	PZ 3	50

TECHNICAL DATA

Parameter	Unit	SM	SMN
Plug diameter	d_k [mm]	5, 6, 8, 10	5, 6, 8, 10
Hole diameter	d_o [mm]	5, 6, 8, 10	5, 6, 8, 10
Effective anchorage depth	h_{eff} [mm]	30/30/40/50	30/30/40/50
Depth of drill hole	h_o [mm]	40/40/50/60	40/40/50/60
Sleeve material	x	PP	PA
Screw material	x	Zinc plated steel	Zinc plated steel
Approval	x	AT-15-9031/2012	AT-15-9031/2012

