

KKX

Expansion plug Ø10, Ø12, Ø14, Ø16 with hex head screw for fixing of metal members



AT-15-9031/2012



Description

Expansion plug with hex head screw for fixing of metal members

Technical data

Type of installation pre-fastening installation

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

Sleeve material/protective coating

PP
polypropylene

Blue zinc

Features and advantages of the product



Anti-rotation elements

Special lugs and protrusions hold the sleeve in place and prevent its rotation during tightening of the screw.

Short expansion zone

Enables installation in solid building materials.

Screw-in installation

Screw-in installation helps tighten the screw to the required depth.

Extensive size range

For a variety of applications ranging from skirting boards to lightweight building equipment.

KPX, KNX sleeves available

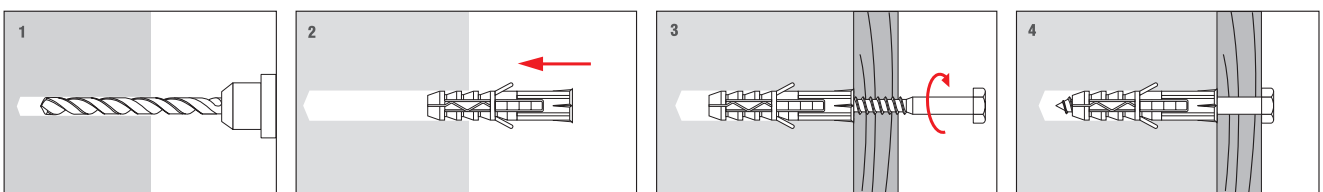
You can re-use the screw with KPX or KNX sleeve.

Screw for use with wrench

Makes installation easy, no tip damage.



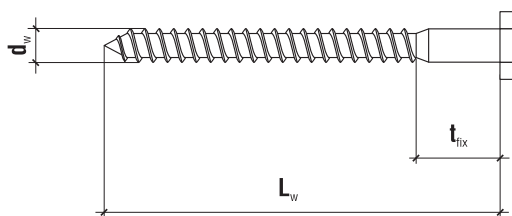
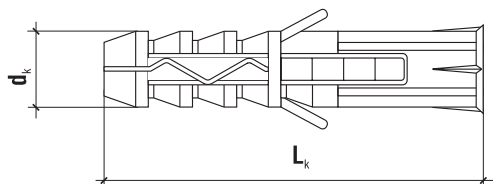
Installation



TECHNICAL DATA

Product marking

KKX	10	060
Type	Diameter	Length



SW 10
SW 13
SW 17
SW 19

	Code	$d_k \times L_k$ [mm]	$d_w \times L_w$ [mm]	Max. fixture thickness t_{fix} [mm]	SW	Pcs
ø10	KKX-10060	10 x 60	6.0 x 60	1	SW-10	100
	KKX-10070	10 x 60	6.0 x 70	10	SW-10	100
	KKX-10080	10 x 60	6.0 x 80	20	SW-10	100
	KKX-10090	10 x 60	6.0 x 90	30	SW-10	100
	KKX-10100	10 x 60	6.0 x 100	40	SW-10	100
	KKX-10120	10 x 60	6.0 x 120	60	SW-10	100
	KKX-10140	10 x 60	6.0 x 140	80	SW-10	100
ø12	KKX-12060	12 x 60	8.0 x 60	1	SW-13	100
	KKX-12070	12 x 60	8.0 x 70	10	SW-13	100
	KKX-12080	12 x 60	8.0 x 80	20	SW-13	100
	KKX-12090	12 x 60	8.0 x 90	30	SW-13	100
	KKX-12100	12 x 80	8.0 x 100	20	SW-13	50
	KKX-12120	12 x 80	8.0 x 120	40	SW-13	50
	KKX-12140	12 x 80	8.0 x 140	60	SW-13	50
	KKX-12160	12 x 80	8.0 x 160	80	SW-13	50
	KKX-12180	12 x 80	8.0 x 180	100	SW-13	50
	KKX-12200	12 x 80	8.0 x 200	120	SW-13	50
ø14	KKX-14080	14 x 80	10 x 80	1	SW-17	50
	KKX-14100	14 x 80	10 x 100	20	SW-17	50
	KKX-14120	14 x 80	10 x 120	40	SW-17	50
	KKX-14140	14 x 80	10 x 140	60	SW-17	50
	KKX-14160	14 x 80	10 x 160	80	SW-17	25
	KKX-14180	14 x 80	10 x 180	100	SW-17	25
	KKX-14200	14 x 80	10 x 200	120	SW-17	25
ø16	KKX-16120	16 x 100	12 x 120	20	SW-19	25
	KKX-16140	16 x 100	12 x 140	40	SW-19	25
	KKX-16160	16 x 100	12 x 160	60	SW-19	25
	KKX-16180	16 x 100	12 x 180	80	SW-19	20
	KKX-16200	16 x 100	12 x 200	100	SW-19	20
	KKX-16220	16 x 100	12 x 220	120	SW-19	20
	KKX-16240	16 x 100	12 x 240	140	SW-19	20
	KKX-16260	16 x 100	12 x 260	160	SW-19	20

KKX

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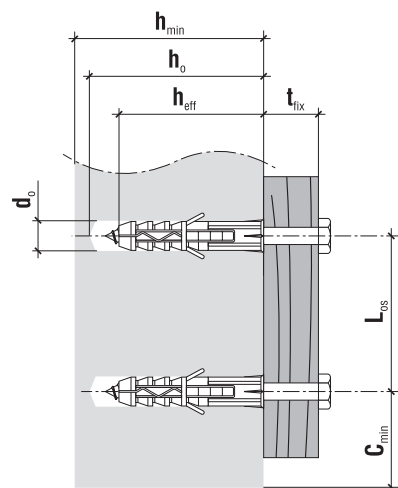
DESIGN PULL-OUT RESISTANCE [kN]

Substrate	KKX-10x60	KKX-12x60	KKX-12x80	KKX-14x80	KKX-16x100
Concrete C20/25	0.79	1.20	1.57	2.17	2.38
Solid clay brick	0.18	1.03	1.14	1.22	3.03
Calcium silicate brick	0.35	1.00	0.79	1.29	0.74
Autoclaved aerated concrete	0.28	0.45	0.64	0.50	1.28

TECHNICAL DATA

Parameter	Unit	KKX
Plug diameter	d_x [mm]	10/12/14/16
Hole diameter	d_o [mm]	10/12/14/16
Effective anchorage depth	h_{eff} [mm]	60/80/100*
Depth of drill hole	h_o [mm]	70/90/110*
Drive type	x	SW 10/13/17/19*
Sleeve material	x	PP
Screw material	x	Zinc plated steel
Approval	x	AT-15-9031/2012

* - for the right screw size



SUBSTRATE, MINIMUM THICKNESS, DISTANCE

Plug type	Min. member thickness h_{min} [mm]	Min. edge distance c_{min} [mm]	Min. spacing L_{os} [mm]
KKX-10, KKK-12/60	120	60	120
KKX-12/80, KKK-14	160	80	160
KKX-16	200	100	200