KLIMAS Sp. z o.o. ul. W. Witosa 135/137
Kuźnica Kiedrzyńska 42-233 Mykanów
tel. +48 34 377 71 00, fax. +48 34 328 01 73 Hotline: 801 477 477, www.wkret-met.com.pl

PRODUCT DATA SHEET – SMNKC/LLC/DW

Section 1. PRODUCT DESCRIPTION

EXPANSION PLUG WITH CYLINDRICAL COLLAR – SMNKC, STOP BEAD CONNECTION – LLC AND PLASTIC SPACER WASHERS – DW

POLSKI PRODUCENT

100% nylon



Expansion plug with cylindrical collar – SMNKC

Expansion plug SMNKC is made from polyamide, and screw is made from zinc-coated steel. Intended for (non-structural) fixing of: starting panels in thermal insulation systems ETICS. The fastener can be used on solid substrates such as concrete, clay brick, calcium silicate brick and autoclaved aerated concrete.

Stop bead connection – LLC

Fastener LLC is used for connecting insulation board starting panels lengthwise (crosswise fixi.. on starting panel folding). Fastener dimensions are as follows: 30x20mm.

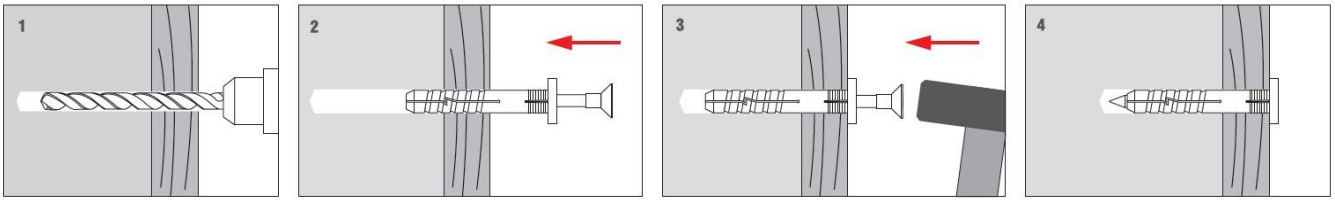
Plastic spacer washers – DW

Spacer washers DW are used for levelling substrate unevenness between substrate and starting panel. With spacers even plane of thermal insulation wall is achieved. Spacer washers are colour-coded depending on their thickness. Washer dimensions are as follows: 40x40mm.

Fasteners SMNKC hold Technical Approval: AT-15-9031/2012

Section 2. METHOD OF INSTALLATION

1. Before fastening identify the substrate on which fastener SMNKC will be installed
2. Select adequate length of the fastener so that expansion zone is in the construction material of the wall, make sure to include thickness of starting panel, thickness of spacer washer DW and effective depth of anchorage of fastener SMNKC
3. Diameter of drilled holes should match diameter of used fasteners SMNKC
4. Holes in substrates of solid materials should be deeper by min. 10 mm compared to the fastener anchorage depth
5. Clean the holes in solid materials of drillings with a back and forth motion of the drill at a reduced speed
6. Then insert plastic sleeve into drilled hole, and using a hammer drive the screw until it penetrates the sleeve



Section 3. TECHNICAL DATA

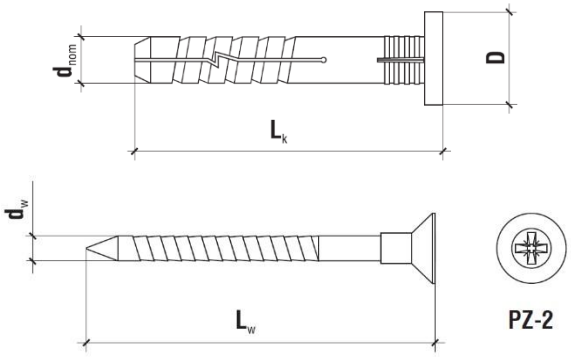
TECHNICAL PARAMETERS – SMNKC		
Parameter	Unit	Value
Plug diameter	d_k [mm]	5/6
Drilled hole diameter	d_0 [mm]	5/6
Anchorage depth	h_{eff} [mm]	30
Drilled hole depth	h_0 [mm]	40
Socket type	[-]	PZ-2
Sleeve material	[-]	PA - polyamide
Screw material	[-]	Galvanized steel
Approval	[-]	AT-15-9031/2012

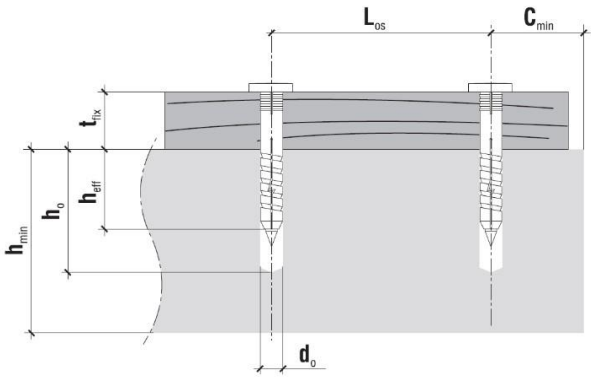
STRENGTH PARAMETERS – SMNKC		
Substrate type	Design resistance [kN]	
	SMNKC-5	SMNKC-6
Concrete C20/25	0.64	0.67
Solid clay brick	0.40	0.30
Calcium silica solid brick	0.42	0.42
Autoclaved aerated	0.08	0.11

INSTALLATION PARAMETERS – SMNKC			
Fastener type	Min. substrate	Min. distance from edge	Min. axial distance
	h_{min} [mm]	c_{min} [mm]	L_{os} [mm]
SMNKC-5	60	30	60
SMNKC-6	60	30	60

All rights reserved The sheet may be disclosed only in the form as delivered. No part (contents such as text, graphics, logos, figures, pictures, and any other data) given in this document must be modified or published whatsoever in part, without prior authorisation. Any trademarks, graphic symbols, trade names, logos and other data are protected by copyright and are property of their owner. Created: 2013-10-16 Updated: 2018-04-11

PRODUCT DATA SHEET – SMNKC/LLC/DW





SELECTION TABLE – SMNKC					
Product code	Sleeve diameter and length	Screw diameter and length	Max. usable length	Socket type	Number of pieces in a box
	d_k x L_k [mm]	d_w x L_w [mm]	(t_{fix}) [mm]	[-]	[pcs]
SMNKC-05035	5x35	3.5x40	5	PZ-2	200
SMNKC-06040	6x40	3.9x45	10	PZ-2	200
SMNKC-06060	6x60	3.9x65	30	PZ-2	100

SELECTION TABLE – LLC		
Product code	Dimension	Number of pieces in a box
	[mm]	[pcs]
LLC	30x20	50

SELECTION TABLE – DW			
Product code	Thickness	Colour	Number of pieces in a box
	[mm]	[-]	[pcs]
DW-02	2	brown	50
DW-03	3	red	50
DW-04	4	green	50
DW-05	5	yellow	50
DW-08	8	blue	50
DW-10	10	black	50
DW-15	15	white	50

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.

All rights reserved The sheet may be disclosed only in the form as delivered. No part (contents such as text, graphics, logos, figures, pictures, and any other data) given in this document must be modified or published whatsoever in part, without prior authorisation. Any trademarks, graphic symbols, trade names, logos and other data are protected by copyright and are property of their owner. Created: 2013-10-16
Updated: 2018-04-11