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PRODUCT DATA SHEET - RU

Section 1. PRODUCT DESCRIPTION

UNIVERSAL PLUG WITH COUNTERSUNK HEAD SCREW - RU

Universal plug RU comprises sleeve made of polyamide and countersunk head steel screw with protective zinc coating. It is designed for fixing of light-duty interior finish systems, wooden strips and lightweight installations on all building substrates. The sleeve has anti-rotation lugs which keep the plug-in place when screwing in the screw. Special design of the plug ensures correct guidance of the screw and reliable connection.

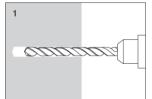
Types of substrates on which universal plug RU can be installed:

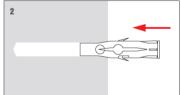
- Concrete
- · Solid clay brick and sand-lime brick
- Hollow clay brick and sand-lime brick
- Plasterboard

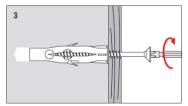


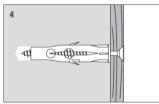
Section 2. METHOD OF INSTALLATION

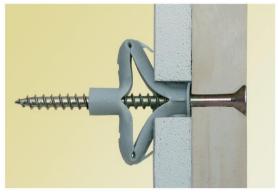
- 1. Original plugs delivered by the manufacturer can be used only
- 2. Before installation identify a substrate in which the plug will be installed and compare loads which the plug will carry to resistance values given in Product Data Sheet or Technical Approval
- 3. Select an adequate length of the 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 hollow 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 through the element being fixed until it completely penetrates the sleeve (prefastening installation)











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PRODUCT DATA SHEET - RU

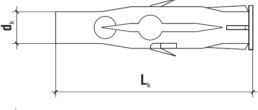
Section 3. TECHNICAL DATA

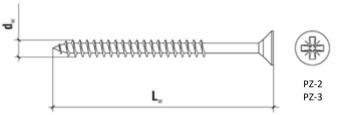
TECHNICAL PARAMETERS					
Parameter	Unit	Value			
Plug diameter	d _k [mm]	6/8/10			
Hole/drill diameter	d₀ [mm]	6/8/10			
Effective anchorage depth	h _{eff} [mm]	35/50/60*			
Drilled hole depth	h₀ [mm]	45/60/70*			
Drive type	[-]	PZ-2/PZ-3**			
Sleeve material	[-]	PA – polyamide			
Screw material	[-]	Zinc-plated steel			

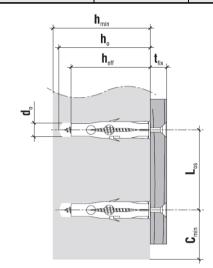
^{*}for RU 6/8/10

RESISTANCE						
Substrate type	Design pull-out resistance [kN]					
	RU-6	RU-8	RU-10			
Concrete C20/25	0,38	0,52	0,92			
Solid clay brick	0,25	0,36	0,64			
Hollow brick	0,20	0,25	0,25			
Plasterboard 12.5mm	0,24	0,26	0,28			

INSTALLATION PARAMETERS						
	Min. substrate	Min. distance	Min. axial distance			
Plug type	thickness	from edge	Willi. axial distance			
	h _{min} [mm]	c _{min} [mm]	L _{os} [mm]			
RU-6	70	70	140			
RU-8	100	100	200			
RU-10	120	120	240			







SELECTION TABLE						
Product code	Sleeve diameter and length	Screw diameter and length	Max. usable length	Drive type	Number of pieces in a box	
d _{k x} L _k [mm]	d _{w x} L _w [mm]	t _{fix} [mm]	[-]	[pcs]		
RU-06045	6x35	3,5x45	5	PZ-2	100	
RU-06060	6x35	3,5x60	20	PZ-2	100	
RU-08060	8x50	4,5x60	5	PZ-2	100	
RU-08080	8x50	4,5x80	25	PZ-2	100	
RU-10080	10x60	6,0x80	15	PZ-3	100	
RU-10100	10x60	6,0x100	35	PZ-3	100	

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.

^{**}for RU-10