UNO

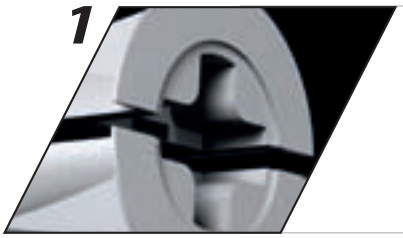
UNIVERSAL PLUG



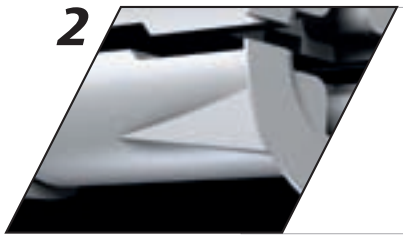


DESCRIPTION:

Universal plug made of high quality polypropylene or nylon. Suitable to use in every kind of substrate. Cleverly designed an inventive packaging helps to choose the right drill and screw size for plug installation.



Expands at top giving instant grip



Additional elements prevent spinning in the hole



Anti-rotational fins



Unique zigzag design, offering instant secure plug expansion throughout the entire length



Additional grip feature



Optimal internal design provides an even expansion and fixing leading the screw through the plug

UNO
UNIVERSAL PLUG

APPROVALS

ALL SUBSTRATES





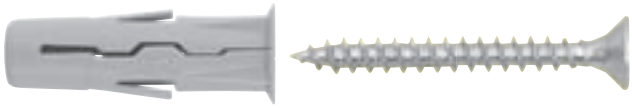
Product code Polyprolylen	Product code Nylon (grey)	mm	mm	mm	pcs.	outer
UNO-YEL-96-C	R-UNO-YEL-96N	5	24	3.0-4.5	96	10
UNO-RED-48-C	R-UNO-RED-48N	6	28	3.5-5.0	48	5
UNO-RED-96-C	R-UNO-RED-96N	6	28	3.5-5.0	96	10
UNO-BRN-48-C	-	7	30	4.0-6.0	48	5
UNO-BLU-40-C	R-UNO-BLU-40N	8	32	4.5-6.0	40	5
UNO-BLU-80-C	R-UNO-BLU-80N	8	32	4.5-6.0	80	10
UNO-GRY-40-C	R-UNO-GRY-40N	10	36	5.0-8.0	40	5
UNO-GRY-80-C	R-UNO-GRY-80N	10	36	5.0-8.0	80	10



Product code Polyprolylen	Product code Nylon (grey)	mm	mm	mm	pcs.	pcs.
UNO-K-05	R-UNO-N-05	5	24	3.0-4.5	200	4800
UNO-K-06	R-UNO-N-06	6	28	3.5-5.0	200	4800
UNO-K-07	-	7	30	4.0-6.0	100	2400
UNO-K-08	R-UNO-N-08	8	32	4.5-6.0	100	2400
UNO-K-10	R-UNO-N-10	10	36	5.0-8.0	100	1200

UNIVERSAL PLUG UNO
WITH COUNTERSUNK HEAD SCREW

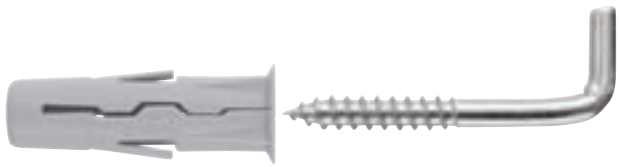
APPROVALS



Product code	mm	mm	pcs.	pcs.
UNO-05+330	5	3.5×30	100	2400
UNO-06+430	6	4.0×30	100	2400
UNO-06+435	6	4.0×35	100	2400
UNO-06+445	6	4.0×45	100	2400
UNO-08+435	8	4.5×35	100	2400
UNO-08+450	8	4.5×50	100	2400
UNO-08+560	8	5.0×60	100	1800
UNO-10+540	10	5.0×40	100	1200
UNO-10+650	10	6.0×50	100	1200
UNO-10+660	10	6.0×60	100	1200

UNIVERSAL PLUG UNO
WITH ANGLE HOOK

APPROVALS



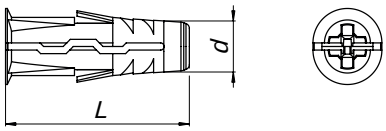
Product code	mm	mm	pcs.	pcs.
P-UNO-06K	6	3.5×35	200	2400

UNIVERSAL PLUG UNO
WITH ROUND HOOK

APPROVALS



Product code	mm	mm	pcs.	pcs.
P-UNO-06S	6	3.5×35	200	2400



MECHANICAL PROPERTIES

Size			ø5	ø6	ø7	ø8	ø10
Plug diameter	d	[mm]	5	6	7	8	10
Hole diameter in substrate	d_0	[mm]	5	6	7	8	10
Hole diameter in fixture	d_{fix}	[mm]	6	7	8	9	11
Minimum hole depth	h_0	[mm]	34	38	40	42	46
Installation depth	h_{nom}	[mm]	20	24	26	28	32
Minimum substrate thickness	h_{min}	[mm]	50	55	60	65	70

PERFORMANCE DATA IN [KN]

Size			ø5	ø6	ø7	ø8	ø10
Installation depth	h_{nom}	[mm]	20	24	26	28	32
CONCRETE C20/25							
Characteristic resistance	N_{Rk}	[kN]	1.39	1.48	0.89	1.25	3.59
Design resistance	N_{Rd}	[kN]	0.77	0.82	0.49	0.69	1.99
Recommended loads	N_{rec}	[kN]	0.55	0.59	0.35	0.49	1.42
SOLID BRICK 7.5 MPA							
Characteristic resistance	N_{Rk}	[kN]	0.47	0.85	0.32	0.68	0.69
Design resistance	N_{Rd}	[kN]	0.19	0.34	0.13	0.38	0.38
Recommended loads	N_{rec}	[kN]	0.14	0.24	0.09	0.27	0.27
AERATED CONCRETE 600							
Characteristic resistance	N_{Rk}	[kN]	0.27	0.63	0.51	0.48	0.42
Design resistance	N_{Rd}	[kN]	0.13	0.31	0.25	0.24	0.21
Recommended loads	N_{rec}	[kN]	0.09	0.22	0.18	0.17	0.15
CAVITY BRICK 15 MPA							
Characteristic resistance	N_{Rk}	[kN]	0.72	0.51	0.71	0.95	1.18
Design resistance	N_{Rd}	[kN]	0.29	0.20	0.28	0.38	0.47
Recommended loads	N_{rec}	[kN]	0.21	0.14	0.20	0.27	0.34
HOLLOW BRICK 15MPA							
Characteristic resistance	N_{Rk}	[kN]	0.39	0.51	0.60	0.81	0.92
Design resistance	N_{Rd}	[kN]	0.15	0.20	0.24	0.32	0.37
Recommended loads	N_{rec}	[kN]	0.11	0.14	0.17	0.23	0.26
PLASTERBOARD MIN. 12.5 MM							
Characteristic resistance	N_{Rk}	[kN]	0.17	0.21	0.25	0.26	0.34
Design resistance	N_{Rd}	[kN]	0.07	0.08	0.10	0.10	0.13
Recommended loads	N_{rec}	[kN]	0.05	0.06	0.07	0.07	0.09

PERFORMANCE DATA IN [KG]

Size			ø5	ø6	ø7	ø8	ø10
Installation depth	h_{nom}	[mm]	20	24	26	28	32
CONCRETE C20/25							
Characteristic resistance	N_{Rk}	[kg]	139.0	148.0	89.0	125.0	359.0
Design resistance	N_{Rd}	[kg]	77.0	82.0	49.0	69.0	199.0
Recommended loads	N_{rec}	[kg]	55.0	58.6	35.0	49.3	142.1
SOLID BRICK 7.5 MPA							
Characteristic resistance	N_{Rk}	[kg]	47.0	85.0	32.0	68.0	69.0
Design resistance	N_{Rd}	[kg]	19.0	34.0	13.0	38.0	38.0
Recommended loads	N_{rec}	[kg]	13.6	24.3	9.3	27.1	27.1
AERATED CONCRETE 600							
Characteristic resistance	N_{Rk}	[kg]	27.0	63.0	51.0	48.0	42.0
Design resistance	N_{Rd}	[kg]	13.0	31.0	25.0	24.0	21.0
Recommended loads	N_{rec}	[kg]	9.3	22.1	17.9	17.1	15.0
CAVITY BRICK 15 MPA							
Characteristic resistance	N_{Rk}	[kg]	72.0	51.0	71.0	95.0	118.0
Design resistance	N_{Rd}	[kg]	29.0	20.0	28.0	38.0	47.0
Recommended loads	N_{rec}	[kg]	20.7	14.3	20.0	27.1	33.6
HOLLOW BRICK 15MPA							
Characteristic resistance	N_{Rk}	[kg]	39.0	51.0	60.0	81.0	92.0
Design resistance	N_{Rd}	[kg]	15.0	20.0	24.0	32.0	37.0
Recommended loads	N_{rec}	[kg]	10.7	14.3	17.1	22.9	26.4
PLASTERBOARD MIN. 12.5 MM							
Characteristic resistance	N_{Rk}	[kg]	17.0	21.0	25.0	26.0	34.0
Design resistance	N_{Rd}	[kg]	7.0	8.0	10.0	10.0	13.2
Recommended loads	N_{rec}	[kg]	5.0	5.7	7.1	7.1	9.4

INSTALLATION

