



Wkręt-met[®]

FASTENER TECHNOLOGIES

13

**Installation systems
and sanitary fixings**

KLIMAS

GENERAL CATALOGUE 2015



UR SINGLE STEEL PIPE CLAMP



Technical Approval
AT-15-8406/2010



APPLICATION

Use for all types of pipes. Suitable for supporting vertical and horizontal pipelines.

MATERIAL

DX51D + AZ150 alu-zinc coated steel

TECHNICAL DATA

Code and size	Nom. diameter (inch)	Nom. diameter (mm)	Width of clamping band (mm)	Steel band thickness (mm)	Plug size	Screw size d x l (mm)	Nut diameter	Design tensile strength [kN]	Design shear strength [kN]	Pcs per pack
UR-3/8	3/8"	15-19	20	1.50	∅ 12x60	∅ 8x120	M8	1.28	0.26	25
UR-1/2	1/2"	20-25	20	1.50	∅ 12x60	∅ 8x120	M8	1.35		25
UR-3/4	3/4"	26-30	20	1.50	∅ 12x60	∅ 8x120	M8	1.35		25
UR-1	1"	32-36	20	1.50	∅ 12x60	∅ 8x120	M8	1.35		25
UR-1 1/4	1 1/4"	38-43	20	1.50	∅ 12x60	∅ 8x120	M8	1.10		25
UR-1 1/2	1 1/2"	47-51	20	1.50	∅ 12x60	∅ 8x120	M8	1.10		25
UR-2	2"	60-64	20	1.50	∅ 12x60	∅ 8x120	M8	1.80	0.28	25
UR-2 1/2	2 1/2"	75-80	20	1.50	∅ 14x80	∅ 10x140	M10	1.00		20
UR-3	3"	87-92	20	1.50	∅ 14x80	∅ 10x140	M10	1.05		20
UR-4	4"	107-112	20	1.50	∅ 14x80	∅ 10x140	M10	1.29		20
UR-6	6"	159-166	20	1.50	∅ 14x80	∅ 10x140	M10	1.39		20

URG SINGLE PIPE RUBBER CLAMP



Technical Approval
AT-15-8406/2010



APPLICATION

Use for all types of pipes. Suitable for supporting vertical and horizontal pipelines.

MATERIAL

- DX51D + AZ150 alu-zinc coated steel
- PVC rubber thermal resistance - 30°C ÷ +120°C

RUBBER TECHNICAL DATA

Density (g/cm³)	Hardness (°ShA)	Tensile strength (N/mm²)	Elongation under tensile load (%)	Minimum temperature (°C)	Maximum temperature (°C)
1.15	55±3	14	400	-30	120

TECHNICAL DATA

Code and size	Nom. diameter (inch)	Nom. diameter (mm)	Width of clamping band (mm)	Steel band thickness (mm)	Plug size	Screw size d x l (mm)	Nut diameter	Design tensile strength [kN]	Design shear strength [kN]	Pcs per pack
URG-3/8	3/8"	15-19	20	1.50	∅ 12x60	∅ 8x120	M8	1.28	0.26	25
URG-1/2	1/2"	20-25	20	1.50	∅ 12x60	∅ 8x120	M8	1.35		25
URG-3/4	3/4"	26-30	20	1.50	∅ 12x60	∅ 8x120	M8	1.35		25
URG-1	1"	32-36	20	1.50	∅ 12x60	∅ 8x120	M8	1.35		25
URG-1 1/4	1 1/4"	38-43	20	1.50	∅ 12x60	∅ 8x120	M8	1.10		25
URG-1 1/2	1 1/2"	47-51	20	1.50	∅ 12x60	∅ 8x120	M8	1.10		25
URG-2	2"	60-64	20	1.50	∅ 12x60	∅ 8x120	M8	1.80	0.28	25
URG-2 1/2	2 1/2"	75-80	20	1.50	∅ 14x80	∅ 10x140	M10	1.00		20
URG-3	3"	87-92	20	1.50	∅ 14x80	∅ 10x140	M10	1.05		20
URG-4	4"	107-112	20	1.50	∅ 14x80	∅ 10x140	M10	1.29		20
URG-6	6"	159-166	20	1.50	∅ 14x80	∅ 10x140	M10	1.39		20



URG2X DOUBLE RUBBER CLAMP FOR COPPER PIPES



APPLICATION

Use for all types of pipes. Suitable for supporting vertical and horizontal heating and cooling double pipelines.

TECHNICAL DATA

Code and size	Nom. diameter (inch)	Nom. diameter (mm)	Width of clamping band (mm)	Steel band thickness (mm)	Plug size	Screw size d x l (mm)	Nut diameter	Pcs per pack
URG-2X3/8	3/8"	17 - 19	20	1.25	Ø12 x 60	Ø 8 x 80	M8	25
URG-2X1/2	1/2"	20 - 24	20	1.25	Ø12 x 60	Ø 8 x 80	M8	25
URG-2X3/4	3/4"	25 - 28	20	1.25	Ø12 x 60	Ø 8 x 80	M8	25
URG-2X1	1"	33 - 37	20	1.25	Ø12 x 60	Ø 8 x 80	M8	25

MATERIAL

- DX51D + AZ150 alu-zinc coated steel
- PVC rubber thermal resistance - 60°C ÷ +140°C

RUBBER TECHNICAL DATA

Density (g/cm³)	Hardness (°ShA)	Tensile strength (N/mm²)	Elongation under tensile load (%)	Minimum temperature (°C)	Maximum temperature (°C)
1.15	55±3	14	400	-60	140

URFG STEEL RUBBER LINED DUCT CLAMP



APPLICATION

Use for overhead installation of natural and mechanical ventilation ducts and for fixing of air conditioning ducts to ceilings and supporting structures.

MATERIAL

- DX51D + AZ150 alu-zinc coated steel
- PVC rubber thermal resistance - 60°C ÷ +140°C

TECHNICAL DATA

Density (g/cm³)	Hardness (°ShA)	Tensile strength (N/mm²)	Elongation under tensile load (%)	Minimum temperature (°C)	Maximum temperature (°C)
1.20	70±3	14	400	-60	140

RUBBER TECHNICAL DATA

■ AVAILABLE ON REQUEST

Code and size	Clamping range (mm)	Width of clamping band (mm)	Steel band thickness (mm)	Pcs per pack
URFG-162	157 - 166	25	1.25	120
URFG-202	197 - 208	25	1.25	100

UPJ SINGLE POLYPROPYLENE CLIP



APPLICATION

Use for securing of copper, PP, PPE pipes and PVC electrical conduits.

MATERIAL

polypropylene

TECHNICAL DATA

Code and size	Nom. pipe diameter (inch)	Nom. pipe diameter (mm)	Screw hole diameter (mm)	Max. screw head diameter (mm)	Plug type (Catalogue code)	Plug size	Screw size d x l (mm)	Pack weight (g)	Pcs per pack
UPJ-15	-	15	6	7.5	KPX, KNX	8 x 40	4 x 50	320	100
UPJ-18	3/8"	18	6	7.5	KPX, KNX	8 x 50	4 x 60	440	100
UPJ-22	1/2"	22	6	8.5	KPX, KNX	8 x 50	4 x 60	260	50



UPD DOUBLE POLYPROPYLENE CLIP



APPLICATION

Use for securing of double copper, PP, PPE pipelines and PVC electrical conduits.

MATERIAL

polypropylene

TECHNICAL DATA

Code and size	Nom. pipe diameter (inch)	Nom. pipe diameter (mm)	Screw hole diameter (mm)	Max. screw head diameter (mm)	Plug type (Catalogue code)	Plug size	Screw size d x l (mm)	Pack weight (g)	Pcs per pack
UPD-15	-	15	6	7.5	KPX, KNX	8 x 40	4 x 50	820	100
UPD-18	3/8"	18	6	7.5	KPX, KNX	8 x 50	4 x 60	990	100
UPD-22	1/2"	22	6	8.5	KPX, KNX	8 x 50	4 x 60	590	50

UPJZ SINGLE LOCK CLIP



APPLICATION

Use for fixing of sanitary and electrical pipes with expansion plugs or wood screws.

MATERIAL

polypropylene

TECHNICAL DATA

Code and size	Colour	Nom. pipe diameter (mm)	Screw hole diameter (mm)	Drill hole diameter (mm)	Max. screw head diameter (mm)	Plug type (Catalogue code)	Plug size	Screw size d x l (mm)	Pack weight (g)	Pcs per pack
UPJZ-15	white	15	4	8	6	KPX,KNX	8 x 40	3,5 x 50	240	50
UPJZ-16	white	16	4	8	6	KPX,KNX	8 x 40	3,5 x 60	260	50
UPJZ-18	white	18	4	8	6	KPX,KNX	8 x 40	3,5 x 60	290	50
UPJZ-20	white	20	5	8	8	KPX,KNX	8 x 50	4 x 60	325	50
UPJZ-20-SZ	grey	20	5	8	8	KPX,KNX	8 x 50	4 x 60	325	50
UPJZ-22	white	22	5	8	8	KPX,KNX	8 x 50	4 x 60	345	50
UPJZ-25	white	25	5	8	8	KPX,KNX	8 x 50	4 x 60	425	50
UPJZ-25-SZ	grey	25	5	8	8	KPX,KNX	8 x 50	4 x 60	425	50
UPJZ-28	white	28	5	8	8	KPX,KNX	8 x 50	4 x 60	460	50
UPJZ-32	white	32	6	8	10	KPX,KNX	8 x 50	5 x 60	600	50
UPJZ-32-SZ	grey	32	6	8	10	KPX,KNX	8 x 50	5 x 60	600	50
UPJZ-35	white	35	6	8	10	KPX,KNX	8 x 50	5 x 60	650	50

UPDZ DOUBLE POLYPROPYLENE CLIP



APPLICATION

Use for fixing of sanitary and electrical pipes with expansion plugs or wood screws.

MATERIAL

polypropylene

TECHNICAL DATA

Code and size	Nom. pipe diameter (mm)	Screw hole diameter (mm)	Drill hole diameter (mm)	Plug type (Catalogue code)	Plug size	Screw size d x l (mm)	Pack weight (g)	Pcs per pack
UPDZ-15	15	4	8	KPX,KNX	8 x 40	3.5 x 50	360	40
UPDZ-16	16	4	8	KPX,KNX	8 x 40	3.5 x 60	368	40
UPDZ-18	18	4	8	KPX,KNX	8 x 40	3.5 x 60	405	40
UPDZ-20	20	5	8	KPX,KNX	8 x 50	4 x 60	520	40
UPDZ-22	22	5	8	KPX,KNX	8 x 50	4 x 60	535	40



OZ SINGLE LOCK CLAMP



APPLICATION

Use for fixing of sanitary, electrical and down pipes with expansion plugs.

MATERIAL

polypropylene

TECHNICAL DATA

Code and size	Nom. pipe diameter (mm)	Plug type and size	Pcs per pack
OZ-50	50	KKX 10 x 80	40
OZ-75	75	KKX 10 x 80	40
OZ-110	110	KKX 10 x 80	30

DOZ CLAMP SPACER



APPLICATION

Accessory for single lock clamp used for enhanced distance between the wall and the clamp.

MATERIAL

polypropylene

TECHNICAL DATA

Code	Wall distance after applying the spacer	Spacer size (mm)	Spacer plug type and size	Pcs per pack
DOZ-1	29	31.5 x 18.5 x 12	KKX 10 x 90	40
DOZ-2	29	56 x 19 x 12	KKX 10 x 90	40

UJRB / UDRB SINGLE CLAMP / TWIN CLAMP



APPLICATION

Use for horizontal fixing of 32mm pipes (UJRB) or double 32mm pipelines (UDRB); suitable for underfloor heating systems.

MATERIAL

polypropylene

TECHNICAL DATA

Code	Nom. pipe diameter (mm)	Drill hole diameter (mm)	Clamp length (mm)	Minimum anchorage depth (mm)	Minimum member thickness (mm)	Pcs per pack
UJRB-1	22-32	10	70	35	50	200
UJRB-2	22-32	10	97	55	70	200
UDRB-1	22-32	10	70	35	50	200
UDRB-2	22-32	10	97	55	70	200



BKMMX WC PAN FIXING KIT

 Technical Approval
AT-15-9031/2012

100% nylon



APPLICATION

For fixing of WC pans and bidets to solid members.

SUBSTRATE

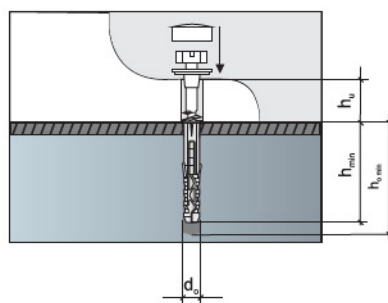
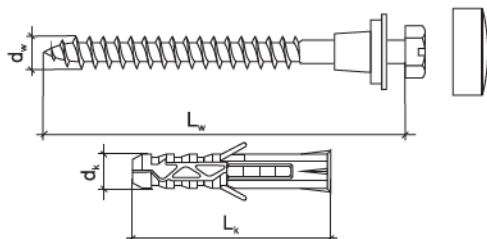


TECHNICAL DATA

Plug material	nylon
Cover cap and washer material	polypropylene
Screw material	steel
Corrosion protection	zinc chromate plating
Substrate	concrete, full ceramic brick

RESISTANCE

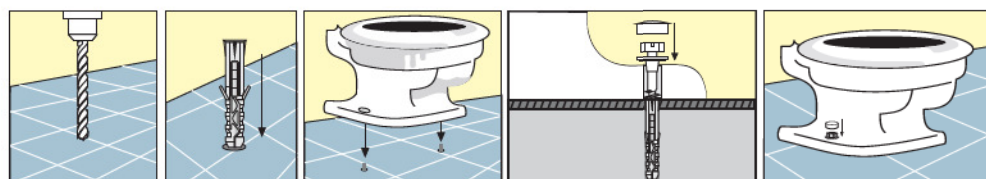
Code and size	Design pull-out resistance in concrete C20/25 $N_{d,s}$ [kN]	Characteristic pull-out resistance in concrete C20/25 $N_{k,s}$ [kN]
BKMMX - 10 x 80	0.95	1.9



TECHNICAL DATA

Code and size	Cover cap colour	Drill hole diameter d_h (mm)	Plug diameter d_k (mm)	Plug length L_k (mm)	Screw diameter and length $d_s \times L_w$ (mm)	Minimum depth of drilled hole h_{min} (mm)	Minimum anchorage depth h_{an} (mm)	Maximum fixture thickness h_f (mm)	Sets per pack
BKMMX-10080B	White	10	10	50	6 x 80	60	50	20	20
BKMMX-10080S	Silver	10	10	50	6 x 80	60	50	20	20
BKMMX-10080Z	Gold	10	10	50	6 x 80	60	50	20	20

INSTALLATION





BKMUX WASH BASIN FIXING KIT



Technical Approval
AT-15-9031/2012

100% nylon



APPLICATION

For fixing of basins and bidets to solid members.

SUBSTRATE



CONCRETE



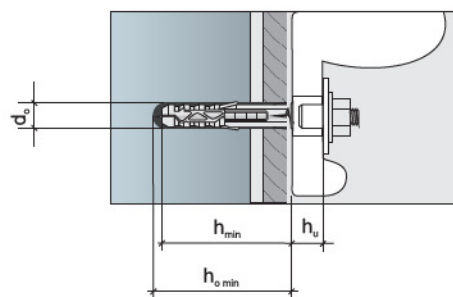
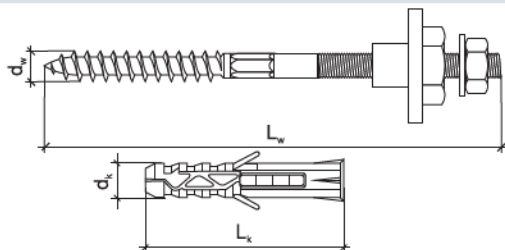
FULL
CERAMIC
BRICK

TECHNICAL DATA

Plug material	nylon
Washer material	polypropylene
Screw material	steel
Corrosion protection	zinc chromate plating
Substrate	concrete, full ceramic brick

RESISTANCE

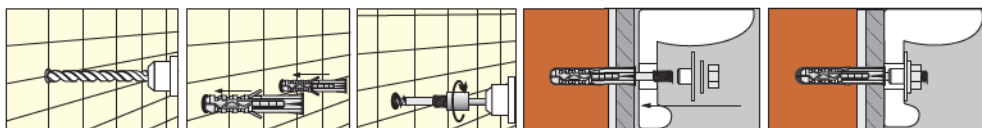
Code and size	Design pull-out resistance in concrete C20/25 N_m [kN]	Characteristic pull-out resistance in concrete C20/25 N_m [kN]
BKMUX - 12 x L	3.15	6.3



TECHNICAL DATA

Code and size	Cover cap colour	Drill hole diameter d_s (mm)	Plug diameter d_p (mm)	Plug length L_p (mm)	Screw diameter and length $d_s \times L_s$ (mm)	Minimum depth of drilled hole $h_{o \min}$ (mm)	Minimum anchorage depth $h_{u \min}$ (mm)	Maximum fixture thickness h_s (mm)	Sets per pack
BKMUX-12100	White	12	12	80	8 x 100	90	80	20	20
BKMUX-12120	White	12	12	80	8 x 120	90	80	40	20

INSTALLATION





BKMPX URINAL FIXING KIT



Technical Approval
AT-15-9031/2012

100% nylon



APPLICATION

For fixing of urinals and bidets to solid members.

SUBSTRATE



CONCRETE



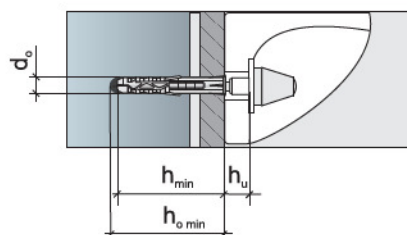
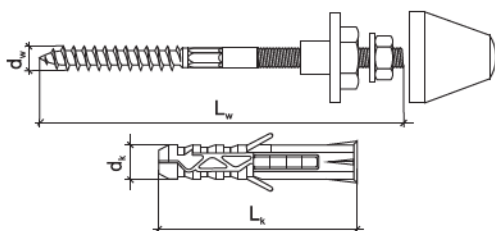
FULL
CERAMIC
BRICK

TECHNICAL DATA

Plug material	nylon
Cover cap and washer material	polypropylene
Screw material	steel
Corrosion protection	zinc chromate plating
Substrate	concrete, full ceramic brick

RESISTANCE

Code and size	Design pull-out resistance in concrete C20/25 $N_{d,s}$ [kN]	Characteristic pull-out resistance in concrete C20/25 $N_{k,s}$ [kN]
BKMPX - 12 x L	3.15	6.3
BKMPX - 14 x L	3.6	7.2



TECHNICAL DATA

Code and size	Cover cap colour	Drill hole diameter d_h (mm)	Plug diameter d_s (mm)	Plug length L_k (mm)	Screw diameter and length $d_s \times L_v$ (mm)	Minimum depth of drilled hole $h_{d, min}$ (mm)	Minimum anchorage depth h_{an} (mm)	Maximum fixture thickness h_f (mm)	Sets per pack
BKMPX-12120B	White	12	12	80	8 x 120	90	80	30	20
BKMPX-12120S	Silver	12	12	80	8 x 120	90	80	30	20
BKMPX-14140B	White	14	14	80	10 x 140	90	80	40	20
BKMPX-14140S	Silver	14	14	80	10 x 140	90	80	40	20

INSTALLATION

