

Frame fixing URD

Short all-rounder for versatile use. Approved for concrete, masonry, and fire protection.

Long Description

The short all-rounder for versatile use. Suitable for concrete, solid and perforated building materials. For medium and high loads. Approved for concrete, masonry and fire protection. Available product variants: countersunk head (T) and hexagon head (FUS). Available in stainless steel (R/A4) and electro-galvanised steel (zp) grades. Selectable product features: drill diameter 8/10 and effective length 10-210 mm. Used in through-hole mounting. Features secure anchoring, Upat nylon quality and easy installation. Used, for example, for fastening facade constructions, wooden substructures and screen brackets.

Characteristics

- Certification/Approval: ETA redundant in cracked concrete, ETA redundant in masonry, fire resistance
- Building materials: Concrete, solid construction, hollow construction
- Load Range in Concrete: Tension Load 0.99-1.79kN, Shear Load 3.93-5.98kN
- Load Range in Masonry: Tension Load, shear Load, and oblique Load 0.11-1.43kN
- Material: Zinc plated steel (zp), stainless steel (R/A4)
- Variant: Countersunk head (T), hexagon head (FUS)
- Feature: Drill Diameter 8/10mm, Usable Length 10-210mm

Applications

- Facade construction
- Wooden substructures
- Screen brackets
- Cable channels
- Beam anchorage
- Windows
- Lighting strips
- Mirror cabinet
- Door frames
- Ceiling suspension

Advantages

- Secure anchoring: ETA approval option 1 cracked concrete and masonry for redundant non-structural systems and, fire protection test
- Upat nylon quality: Robust - durable - recyclable
- Easy installation: Short expansion part with 50mm anchorage depth for quick and ergonomic installation
- Safe application: The rotation lock prevents the nylon anchor from rotating in the borehole
- Flexible application: Flexibly applicable in solid and hollow building materials

Materials

Approved for:

- Concrete $\geq$ C12/15
- Perforated & solid bricks
- Lightweight concrete hollow blocks
- Calcium silicate perforated & solid bricks
- Aerated concrete
- Full blocks made of lightweight and normal concrete
- Thermal insulation blocks

Also suitable for:

- Natural stone with dense structure
- Full gypsum boards

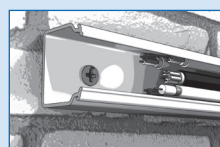
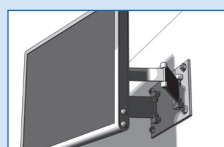
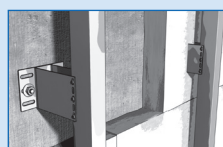


Straight to the product

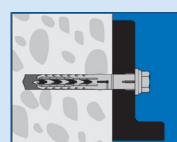
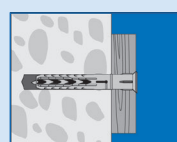
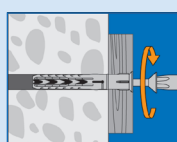
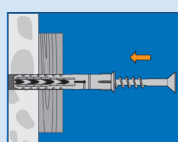
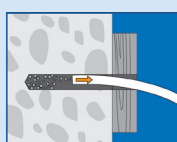
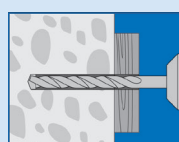


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Application examples



Assembly



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Product variants

Product	Art.-No. (zp)	Art.-No. (R)	Drive	Drill diameter	Anchor length	Max. fixture thickness	Min. drill hole depth for through fixings	ETA approval	Sales unit (zp)	Sales unit (R)
URD 8x60 FUS	577878	577879	—	—	—	—	—	✓	50	50
URD 10x52 FUS	543354	-	TX40 / SW 13	10	52	2	62	✓	50	-
URD 10x60 FUS	543355	543365	TX40 / SW 13	10	60	10	70	✓	50	50
URD 10x80 FUS	543356	543366	TX40 / SW 13	10	80	30	90	✓	50	50
URD 10x100 FUS	543357	543367	TX40 / SW 13	10	100	50	110	✓	50	50
URD 10x120 FUS	543358	543368	TX40 / SW 13	10	120	70	130	✓	50	50
URD 10x140 FUS	543359	543369	TX40 / SW 13	10	140	90	150	✓	50	50
URD 10x160 FUS	543360	543370	TX40 / SW 13	10	160	110	170	✓	50	50
URD 10x180 FUS	543361	543371	TX40 / SW 13	10	180	130	190	✓	50	50
URD 10x200 FUS	543362	543372	TX40 / SW 13	10	200	150	210	✓	50	50
URD 10x230 FUS	543363	543373	TX40 / SW 13	10	230	180	240	✓	50	50
URD 10x260 FUS	543364	543374	TX40 / SW 13	10	260	210	270	✓	50	50
URD 8x60 T	547092	-	TX30	8	60	10	70	✓	50	50
URD 8x80 T	543375	-	TX30	8	80	30	90	✓	50	-
URD 8x100 T	543376	-	TX30	8	100	50	110	✓	50	-
URD 8x120 T	543377	-	TX30	8	120	70	130	✓	50	-
URD 10x60 T	577880	577881	—	—	—	—	—	✓	50	50
URD 10x80 T	543336	543345	TX40	10	80	30	90	✓	50	50
URD 10x100 T	543337	543346	TX40	10	100	50	110	✓	50	50
URD 10x120 T	543338	543347	TX40	10	120	70	130	✓	50	50
URD 10x140 T	543339	543348	TX40	10	140	90	150	✓	50	50
URD 10x160 T	543340	543349	TX40	10	160	110	170	✓	50	50
URD 10x180 T	543341	543350	TX40	10	180	130	190	✓	50	50
URD 10x200 T	543342	543351	TX40	10	200	150	210	✓	50	50
URD 10x230 T	543343	543352	TX40	10	230	180	240	✓	50	50
URD 10x260 T	543344	543353	TX40	10	260	210	270	✓	50	50

Stainless steel (R/A4): For external atmospheric exposure and to permanently damp internal conditions, if no particular aggressive conditions exists

Zinc plated steel (zp/gvz): For dry internal conditions. Furthermore can be used outdoors if the head is shielded from moisture and rain to prevent water from entering the anchor shaft

Countersunk Head (T): For visually appealing and flush-mounted installation

Hexagon Head (FUS): For secure application of torque from the outside even in small installation spaces

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Load table

Permissible loads¹⁾²⁾ of a single anchor as part of a multiple fixing of non-structural systems

For the design, the entire assessment ETA-17/0811 must be considered.

Type			URD 8	URD 10
Anchor diameter	d_0	[mm]	8	10
Anchoring depth	h_{ef}	[mm]	50	50
Anchoring in concrete $\geq$ C12/15				
Permissible tensile load N_{perm}		[kN]	0.99	1.79
Permissible shear load V_{perm}	z_p	[kN]	4.2	5.98
Permissible shear load V_{perm}	R	[kN]	3.93	5.98
Minimum member thickness	h_{min}	[mm]	100	100
Characteristic edge distance	$c_{cr,N}$	[mm]	85	140
Characteristic spacing distance	a resp. $s_{cr,N}$	[mm]	100	100
Minimum spacing distance	s_{min}	[mm]	100	70
At an edge distance	$c \geq$	[mm]	85	210
Minimum edge distance	c_{min}	[mm]	85	85
At a spacing distance	$s \geq$	[mm]	100	100
Anchoring in masonry				
Permissible load in solid brick	Mz	[kN]	0,86	1,43
Permissible load $F_{perm}^{3)}$ in solid sand-lime brick	KS	[kN]	0.86	1,43
Permissible load $F_{perm}^{3)}$ in lightweight concrete solid brick	Vbl	[kN]	0.71	0,86
Permissible load $F_{perm}^{3)}$ in normal concrete solid brick	Vbn	[kN]	0,71	1,29
Permissible load $F_{perm}^{3)4)}$ in perforated brick	HLz	[kN]	0,34	0,86
Permissible load $F_{perm}^{3)}$ in perforated sand-lime brick	KSL	[kN]	0,11	0,43
Permissible load $F_{perm}^{3)4)}$ in hollow light-weight concrete block	Hbl	[kN]	0,71	0,71
Permissible load $F_{perm}^{3)}$ in hollow block lightweight concrete Hbn	Hbn	[kN]		0,71
Permissible load $F_{perm}^{3)}$ in thermal insulation block WDB	WDB	[kN]		0,43
Minimum member thickness	h_{min}	[mm]	100	100
Minimum spacing distance (single anchor)	a_{min}	[mm]	250	250
Minimum edge distance (single anchor)	c_{min}	[mm]	100	100
Minimum spacing distance (anchor group)	s_{min}	[mm]	100	100
Minimum edge distance (anchor group)	c_{min}	[mm]	100	100
Anchoring in aerated concrete				
Permissible load $F_{perm}^{3)}$ in aerated concrete	$PB \geq 2 \text{ N/mm}^2$	[kN]		0.3
Minimum component thickness	h_{min}	[mm]		100
Minimum spacing distance (single anchor)	a_{min}	[mm]		250
Minimum edge distance (single anchor)	c_{min}	[mm]		100
Minimum spacing distance (anchor group)	s_{min}	[mm]		400
Minimum edge distance (anchor group)	c_{min}	[mm]		100

¹⁾ The partial safety factors of resistance regulated in the assessment, as well as a partial safety factor for action of $\gamma_L = 1.4$, are taken into account. For example, a single anchor is defined as an anchor with a minimum spacing distance "a" according to the ETA.

²⁾ Valid for temperatures in the anchoring base up to +50 °C (or temporarily up to +80 °C). For long-term temperatures up to +30 °C, higher permissible loads are possible.

³⁾ Valid for tensile load, shear load, and oblique pull at any angle. For combinations of tensile and shear loads as well as bending moments, see the assessment.

⁴⁾ Drilling method: rotary drilling.