



TRUHLÁŘ a spol., s.r.o.

LIGHT ANCHORS and FIXING SYSTEMS

www.ttt.cz

Company **TRUHLÁŘ a spol., s.r.o.** was founded in 1990 and began trade activity with jointing materials.

The company has been expanding gradually and adding new retail outlets in the areas of hardware and electrical appliances to its existing chain of retail shops.

However, the company has remained committed to its original domain and has continued to improve and expand its wholesale business in the line of dowels, anchoring techniques and jointing materials.



In 1993 the company launched its own production of metallic elements for anchoring technology.

A basic change in the development of the company was made with manufacture of wide assortment of plastic dowels that started in the beginning of year 2000.

Thanks using one of the most up-to-date technologies and high-grade materials, our products are comparable with the products offered by well-known competitors on our market.

At the same time, we have been stabilizing and expanding the assortment of metallic anchoring elements, fixing elements for gypsum board and multipurpose screws.

In August 2003 was finished construction of new logistic and distribution centre in Hlubočinka – 15 km from Prague. Moving to new spaces near the production and packing factory have shorted delivery terms and improved customer service.



Stock with capacity up to 1.800 pallet places, modern offices and retail store help to satisfy all our and our customer's needs.

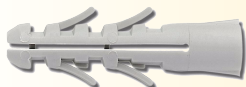


During beginning of year 2006 will be finished new production and assembling factory that will be directly connected to our current distribution centre. This step will greatly speed up our production time and make us more flexible.

Part of new production factory will be also new stock places with capacity up to 600 pallets.

Thanks the new production factory we will be able better and faster fulfill your demands.

Standard Anchors (Polyamide) UPA



Lightweight all-purpose fixing for professional and DIY use.
High quality Polyamide for optimal performance and easy application.

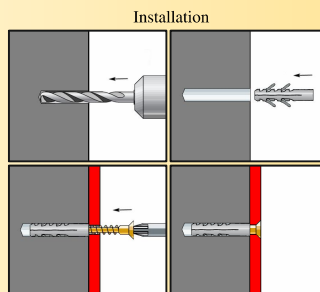
Thermal resistance from -40 °C to +100 °C.

Application:

- concrete
- brick
- natural stone
- sand-stone

Advantages:

- wide area of application
- high temperature resistance



Material: Polyamide PA6 (Nylon)

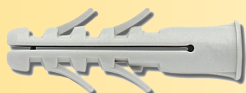
Type UPA - Technical data

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Recommended loads (concrete)
4 x 20	4	25	20	2 - 3	0,13
5 x 25	5	30	25	2,5 - 4	0,32
6 x 30	6	35	30	3,5 - 5	0,53
7 x 35	7	40	35	4 - 5,5	0,65
8 x 40	8	45	40	4,5 - 6	0,75
10 x 50	10	55	50	6 - 8	0,92
10 x 60	10	65	60	6 - 8	0,92
12 x 60	12	65	60	8 - 10	1,33
14 x 75	14	80	75	10 - 12	1,76
16 x 90	16	95	90	12	2,90
16 x 100	16	105	100	12	2,90
16 x 120	16	125	120	12	2,90
16 x 140	16	145	140	12	2,90

All figures are in mm

Recommended loads in kN
(1 kN $\approx$ 100 Kg)

Standard Anchors with lip (Polyamide) UPA/L



Lightweight all-purpose fixing for professional and DIY use.
High quality Polyamide for optimal performance and easy application.

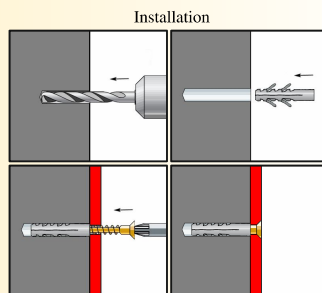
Thermal resistance from -40 °C to +100 °C.

Application:

- concrete
- brick
- natural stone
- sand-stone

Advantages:

- wide area of application
- high temperature resistance



Material: Polyamide PA6 (Nylon)

Type UPA/L - Technical data

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Recommended loads (concrete)
5 x 25	5	30	25	2,5 - 4	0,32
6 x 30	6	35	30	3,5 - 5	0,53
8 x 40	8	45	40	4,5 - 6	0,75
10 x 50	10	55	50	6 - 8	0,92
12 x 60	12	65	60	8 - 10	1,33
14 x 75	14	80	75	10 - 12	1,76
16 x 90	16	95	90	12	2,90

All figures are in mm

Recommended loads in kN
(1 kN $\approx$ 100 Kg)

Standard Anchors for cable ties (Polyamide) UPA-LP



Lightweight all-purpose fixing for professional and DIY use.
High quality Polyamide for optimal performance and easy application.

Thermal resistance from -40 °C to +100 °C.

Application:

- concrete
- brick
- natural stone
- sand-stone

Advantages

- wide area of application
- high temperature resistance

Installation



Material: Polyamide PA6 (Nylon)

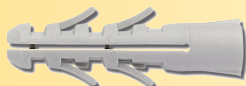
Type UPA-LP - Technical data

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Recommended loads (concrete)
5 x 25	5	30	25	2,5 - 4	0,32
6 x 30	6	35	30	3,5 - 5	0,53
8 x 40	8	45	40	4,5 - 6	0,75

All figures are in mm

Recommended loads in kN
(1 kN $\approx$ 100 Kg)

Standard Anchors (Polypropylene) UPP



Lightweight all-purpose fixing for professional and DIY use.
High quality Polypropylene for optimal performance and easy application.

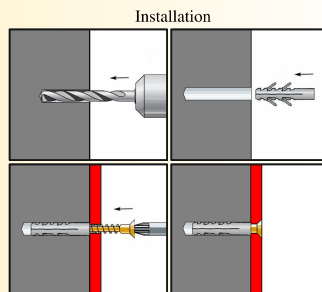
Thermal resistance from -20 °C to +80 °C.
Recommended application temperature from -5 °C.

Application:

- concrete
- brick
- natural stone
- sand-stone

Advantages:

- wide area of application
- high temperature resistance
- low price



Material: Polypropylene

Type UPP - Technical data

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Recommended loads (concrete)
4 x 20	4	25	20	2-3	0,10
5 x 25	5	30	25	2,5 - 4	0,26
6 x 30	6	35	30	3,5 - 5	0,42
7 x 35	7	40	35	4 - 5,5	0,52
8 x 40	8	45	40	4,5 - 6	0,60
10 x 50	10	55	50	6 - 8	0,74
10 x 60	10	65	60	6 - 8	0,74
12 x 60	12	65	60	8 - 10	1,06
14 x 75	14	80	75	10 - 12	1,41
16 x 90	16	95	90	12	2,32
16 x 100	16	105	100	12	2,32
16 x 120	16	125	120	12	2,32
16 x 140	16	145	140	12	2,32

All figures are in mm

Recommended loads in kN
(1 kN ≅ 100 Kg)

Universal Anchors (Polyamide) TPA



Anchor for universal use made of Polyamide PA6 (PA). It is held through internal pressure against the inside of the hole in solid materials and it is held in place by segments knotting behind the drill hole in hollow materials.

Thermal resistance from -40 °C to +100 °C.

Application:

- hollow or full brick
- gas concrete
- concrete
- sand-stone
- chipboard
- gypsum plasterboard

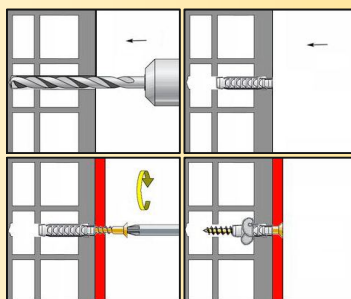
(only sizes 5 – 8 mm, size 8 mm with screw max. dia 5 mm)

Advantages:

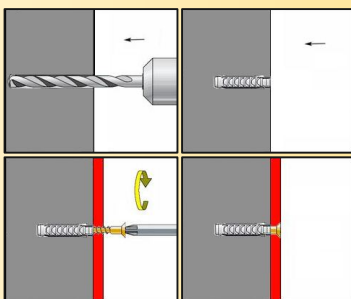
- high quality
- fast installation
- usage in many materials

Material: Polyamide PA6 (Nylon)

Installation hollow material



Installation full material



Type TPA - Technical data

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Recommended loads (concrete)
5 x 25	5	35	25	3 - 4	0,40
6 x 30	6	40	30	4 - 5	0,70
8 x 40	8	50	40	4,5 - 6	0,80
10 x 50	10	70	50	6 - 8	1,40
12 x 60	12	80	60	8 - 10	1,80

All figures are in mm

Recommended loads in kN
(1 kN ≅ 100 Kg)

Nail Anchors NH, NHZ, NHH



NH – round head



NHZ – countersunk head



NHH – mushroom head

These anchors can be used for quick installation in internal and external construction work. Recommended where a rapid and large numbers of fixing are required. These anchor are available with round, countersunk and mushroom head.

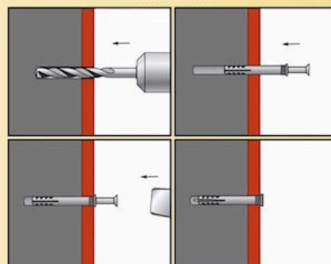
Application:

- concrete
- stone
- sand-stone

Advantages:

- fast and easy installation

Installation



Material: Polyamide PA6 (Nylon)

Type NH, NHZ and NHH – Technical data

Size	Drill ∅	Minimal drill depth	Anchor length	Nail ∅	Collar ∅	Fixable thickness	Recommended loads (concrete)
5 x 25	5	30	25	3,4	9	3	0,31
5 x 35	5	40	35	3,4	9	10	0,31
5 x 45	5	50	45	3,4	9	15	0,31
6 x 25	6	30	25	3,8	10	3	0,48
6 x 35	6	40	35	3,8	10	5	0,48
6 x 40	6	45	40	3,8	10	10	0,48
6 x 45	6	50	45	3,8	10	15	0,48
6 x 55	6	60	55	3,8	10	25	0,48
6 x 60	6	65	60	3,8	10	30	0,48
6 x 70	6	75	70	3,8	10	40	0,48
6 x 80	6	85	80	3,8	10	50	0,48
8 x 45	8	50	45	4,8	11	5	0,65
8 x 60	8	65	60	4,8	11	20	0,65
8 x 75	8	80	75	4,8	11	35	0,65
8 x 80	8	85	80	4,8	11	40	0,65
8 x 100	8	105	100	4,8	11	60	0,65
8 x 120	8	125	120	4,8	11	80	0,65
8 x 135	8	140	135	4,8	11	95	0,65

All figures are in mm

Recommended loads in kN
(1 kN ≅ 100 Kg)

Nail Anchors with metric thread NH-M



These anchors can be used for quick installation in internal and external construction work. Recommended where a rapid and large numbers of fixing are required. This type is available only with round head.

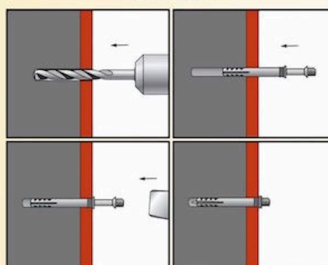
Application:

- concrete
- stone
- sand-stone

Advantages:

- fast and easy installation

Installation



Material: Polyamide PA6 (Nylon)

Type NH – M – Technical data

Size	Drill Ø	Minimal drill depth	Anchor length	Nail Ø	Collar Ø	Fixable thickness	Recommended loads (concrete)
6 x 40	6	45	40	3,8	10	10	0,48
8 x 60	8	65	60	4,8	11	20	0,65

All figures are in mm

Recommended loads in kN
(1 kN $\approx$ 100 Kg)

Nail Anchors with stainless steel nail A2 NH-N



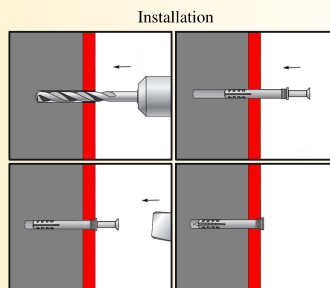
These anchors can be used for quick installation in internal and external construction work. application in wet conditions. Recommended for Nail screws are made of stainless steel A2.

Application:

- concrete
- stone
- sand-stone

Advantages:

- fast and easy installation
- dismounting option
- stainless



Material: Polyamide PA6 (Nylon)

Type NH – N A2 – Technical data

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Collar Ø	Fixable thickness	Recommended loads (concrete)
6 x 40	6	45	40	3,8	10	10	0,48
6 x 60	6	65	60	3,8	10	30	0,48
8 x 60	8	65	60	4,8	11	20	0,65
8 x 80	8	85	80	4,8	11	40	0,65
8 x 100	8	105	100	4,8	11	60	0,65

All figures are in mm

Recommended loads in kN
(1 kN $\approx$ 100 Kg)

Frame anchors RM



The RM anchor has long expansion area and is suitable for through – fixing into cavity bricks etc.

The special internal design, the long expansion area, provides secure fixing into concrete, stone and softer material such as bricks and low density block work.

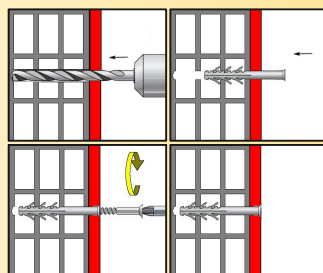
Application:

- hollow brick
- brick
- concrete
- stone

Advantages:

- strong anchoring
- high temperature resistance
- easy installation

Installation



Material: Polyamide PA6 (Nylon)

Type RM – Technical data

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Fixable thickness	Recommended loads (concrete)
8 x 60	8	70	60	5 - 5,5	5	0,75
8 x 80	8	90	80	5 - 5,5	25	0,75
8 x 100	8	110	100	5 - 5,5	45	0,75
8 x 120	8	130	120	5 - 5,5	65	0,75
8 x 140	8	150	140	5 - 5,5	85	0,75
8 x 160	8	170	160	5 - 5,5	105	0,75
10 x 80	10	90	80	6 - 7	15	0,92
10 x 100	10	110	100	6 - 7	35	0,92
10 x 120	10	130	120	6 - 7	55	0,92
10 x 140	10	150	140	6 - 7	75	0,92
10 x 160	10	170	160	6 - 7	95	0,92

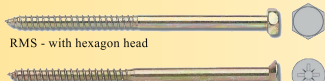
All figures are in mm

Recommended loads in kN
(1 kN $\approx$ 100 Kg)

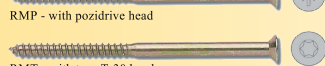
Frame anchors with screws RMS, RMP, RMT



RMS - with hexagon head



RMP - with pozidrive head



RMT - with torx T-30 head

The RM anchor has long expansion area and is suitable for through – fixing into cavity bricks etc. The special internal design, the long expansion area, provides secure fixing into concrete, stone and softer material such as bricks and low density block work.

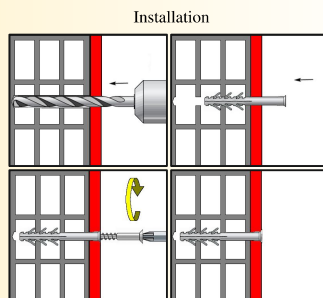
RM anchors are available in sets with hexagon, pozidrive and torx head.

Application:

- hollow brick
- brick
- concrete
- stone

Advantages:

- strong anchoring
- high temperature resistance
- easy installation
- complete package



Material: Polyamide PA6 (Nylon)

Type RMS, RMP and RMT - Technical data

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Fixable thickness	Recommended loads (concrete)
8 x 60	8	70	60	5 - 5,5	5	0,75
8 x 80	8	90	80	5 - 5,5	25	0,75
8 x 100	8	110	100	5 - 5,5	45	0,75
8 x 120	8	130	120	5 - 5,5	65	0,75
8 x 140	8	150	140	5 - 5,5	85	0,75
8 x 160	8	170	160	5 - 5,5	105	0,75
10 x 80	10	90	80	6 - 7	15	0,92
10 x 100	10	110	100	6 - 7	35	0,92
10 x 120	10	130	120	6 - 7	55	0,92
10 x 140	10	150	140	6 - 7	75	0,92
10 x 160	10	170	160	6 - 7	95	0,92

All figures are in mm

Recommended loads in kN
(1 kN $\cong$ 100 Kg)

Insulation plugs with nylon nail TTH



Plug for general purpose use in hard and soft insulation pads. Special plug used for fixation of insulation material. Plug is easily installed only by hammering in. High resistant in meteorological conditions.

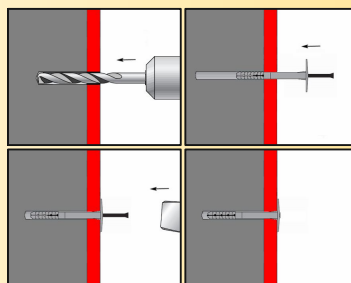
Application:

- concrete
- brick
- stone
- hollow brick

Advantages:

- easy installation
- fast installation
- low price
- no thermal bridge

Installation



Material: Plug – Copolymer, Nail – Polyamide (Nylon) with glass

Type TTH – Technical data

Size	Drill ∅	Minimum drill depth	Fixing depth	Anchor length	Disc ∅	Insulation thickness	Recommended loads	
							concrete	brick
10/60 - 90	10	45	40	90	60	40	0,187	0,150
10/60 - 110	10	45	40	110	60	60	0,187	0,150
10/60 - 120	10	45	40	120	60	70	0,187	0,150
10/60 - 130	10	45	40	130	60	80	0,187	0,150
10/60 - 140	10	45	40	140	60	90	0,187	0,150
10/60 - 150	10	45	40	150	60	100	0,187	0,150
10/60 - 160	10	45	40	160	60	110	0,187	0,150
10/60 - 170	10	45	40	170	60	120	0,187	0,150
10/60 - 180	10	45	40	180	60	130	0,187	0,150
10/60 - 190	10	45	40	190	60	140	0,187	0,150
10/60 - 210	10	45	40	210	60	160	0,187	0,150

All figures are in mm

Recommended loads in kN
(1 kN $\approx$ 100 Kg)

Insulation plates TTP



Insulation plate is used for fixing insulation material (polystyrene or mineral wool) into wood construction, chipboard or plywood.

Insulation plate is equipt with special cap which prevent creation of thermal bridge

The plate is produced from quality **Copolymer**.

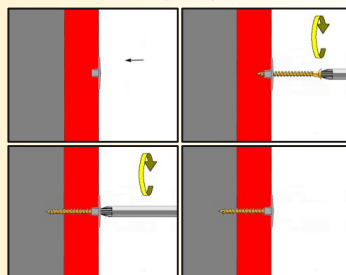
Application:

- wood
- plywood
- chipboard

Advantages:

- low price
- easy installation
- no thermal bridge

Installation



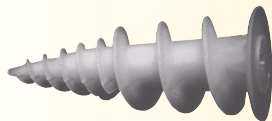
Material: Copolymer

Type TTP - Technical data

Size	Hole diameter	Screw diameter	Plate diameter	Plate height	Minimal fixing depth
10/60	7,5	5 - 7,5	60	17	20

All figures are in mm

Turbo anchors TURBO



Special anchor for application in gypsum plasterboard. Plug is easily installed to gypsum plasterboard without any special tool. The material is fixed with the chipboard or gypsum screw.

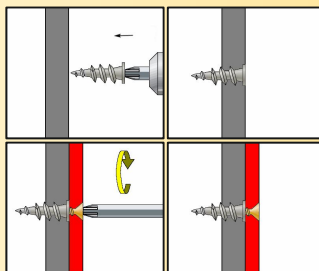
Application:

- gypsum plasterboard

Advantages:

- easy installation
- fast installation
- low price

Installation



Material: Polyamide (Nylon) with glass

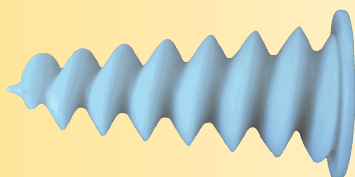
Type TURBO - Technical data

Size	Anchor length	Screw Ø	Recommended loads
10 x 35	35	3,5 - 4	0,15

All figures are in mm

Recommended loads in kN
(1 kN $\cong$ 100 Kg)

Polystyrene anchors HDP



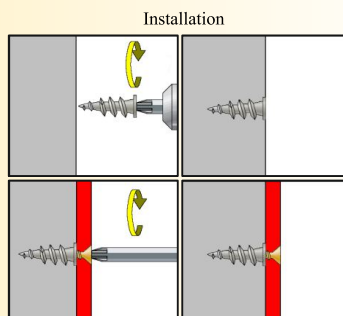
Special anchor for use in polystyrene (isolation). Easy application by using manual or electric screwdriver. Designed for light fixing. Fixing material is fasten by chipboard or wood screws.

Application:

- polystyrene

Advantages:

- easy installation
- fast installation
- low price



Material: Polypropylene

Type HDP - Technical data

Size	Anchor length	Screw diameter	Recommended loads (pull-out)
23 x 50	50	4,0 - 5,0	0,20

All figures are in mm

Recommended loads in kN
(1 kN $\cong$ 100 Kg)

Profi pack



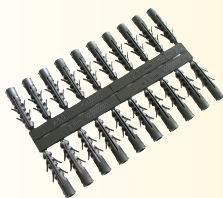
Standard polypropylene anchors and nylon nail plugs in practical transparent buckets.

Technical data

Type of anchor	Size	Drill Ø	Minimal drill depth	Anchor length	Pcs in bucket	Pcs in carton
UPP	5 x 25	5	30	25	1 000	8
UPP	6 x 30	6	35	30	500	8
UPP	8 x 40	8	45	80	200	8
UPP	10 x 50	10	55	50	100	8
NH	5 x 25	5	30	25	400	8
NH	5 x 35	5	40	35	200	8
NH	6 x 35	6	40	35	200	8
NH	6 x 45	6	50	45	150	8
NH	6 x 60	6	65	60	100	8

All figures are in mm

Sets of anchors



Sets of standard polypropylene anchors and universal polypropylene anchors per 10 or 20 pcs. It is very economic package mostly for DIY usage.

Technical data

Type of anchor	Size	Drill Ø	Minimal drill depth	Anchor length	Pcs in bucket	Pcs in carton
UPP	6 x 30	6	35	30	10	1 000
UPP	8 x 40	8	45	40	20	860
UPP	10 x 50	10	55	50	10	1 050
UPP	12 x 60	12	65	60	10	480
TX-PP	5 x 25	5	30	25	10	4 400
TX-PP	6 x 30	6	35	30	20	1 300
TX-PP	8 x 40	8	45	40	20	630
TX-PP	10 x 50	10	55	50	10	630
TX-PP	12 x 60	12	65	60	10	420

All figures are in mm

Box



Practical round boxes with screwing cap. Boxes and cap are made of polypropylene. Boxes can be used for storing anchors or screws, thanks to transparent material is content visible.

Technical data

Size	Diameter	Height	Pcs in carton
Box 3	90	130	60
Box 4	90	170	40
Box 5	90	210	40

All figures are in mm

Ekobox



Plastic box for fastener or other material, it can be stacked or hanging to special stand. It is available in different colors.

Technical data

Length	Height	Width	Load capacity	Stacking capacity	Pcs in package
145	70	100	5 kg	26 kg	20

All figures are in mm



CERTIFICATES

Certification of our product by Technical and Test Institute for Construction in Prague (TZÚS)

Nail anchor

Frame anchor

Insulation plug

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NOTES

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Contact information

Direction from Plzeň (Germany)



Direction from Brno (Slovakia, Austria)



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map

