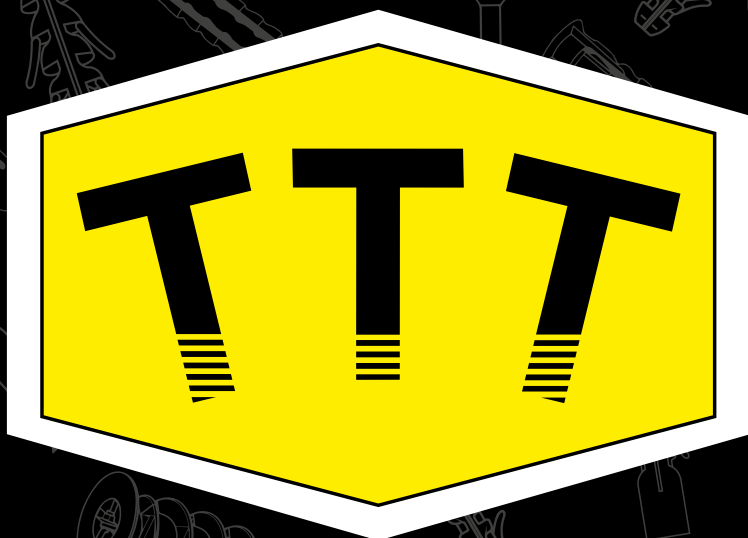


TRUHLÁŘ a spol., s.r.o.



**PRODUCER
OF PLASTIC PLUGS**

**from Czech Republic
since 2000**

HISTORY

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 our customer's needs.

During beginning of year 2006 was finished new production and assembling factory that is directly connected to our current distribution centre. This step greatly speed up our production time and make us more flexible. Part of new production factory is also new stock places with capacity up to 600 pallets. Thanks the new production factory we can better and faster fulfil your demands.

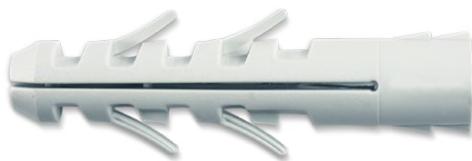


CERTIFICATES

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

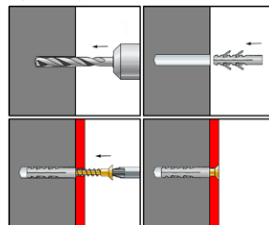


UPA



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**.

INSTALLATION:



APPLICATION

- › concrete
- › brick
- › natural stone
- › sand-stone



MATERIAL

Polyamide PA6
(Nylon)



ADVANTAGES

- › wide area of application
- › high temperature resistance

TECHNICAL DATA:

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

All figures are in mm

Recommended loads in kN (1 kN ≈ 100 Kg)

UPA — STANDARD PLUGS

TRUHLÁŘ a spol., s.r.o.

Hlavní 812, 251 68 Hlubočinka, Czech Republic | tel.: +420 323 671 745 | fax: +420 323 671 744 | e-mail: export@ttt.cz

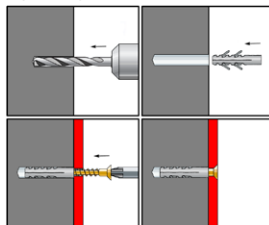


UPA/L



Lightweight all-purpose fixing for professional and DIY use. **High quality Polyamide** for optimal performance and easy application. Thermal resistance from -40°C to $+100^{\circ}\text{C}$.

INSTALLATION:



APPLICATION

- › concrete
- › brick
- › natural stone
- › sand-stone



MATERIAL

Polyamide PA6
(Nylon)



ADVANTAGES

- › wide area of application
- › high temperature resistance

TECHNICAL DATA:

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

All figures are in mm

Recommended loads in kN (1 kN ≈ 100 Kg)

UPA/L — STANDARD PLUGS WITH LIP



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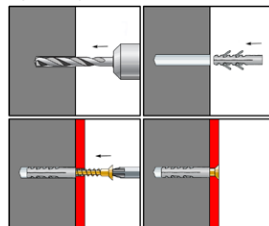
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UPP



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.

INSTALLATION:



APPLICATION

- › concrete
- › brick
- › natural stone
- › sand-stone



MATERIAL

Polypropylene



ADVANTAGES

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

TECHNICAL DATA:

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

All figures are in mm

Recommended loads in kN (1 kN = 100 Kg)

STANDARD PLUGS

UPP

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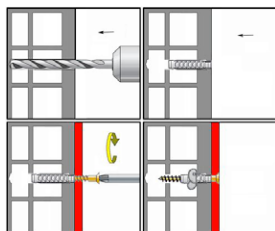


TX-PA

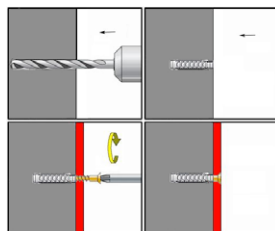


Plug for universal use made of high quality Polyamide. It is held through internal pressure against the inside of the hole or segments knotting in hollow materials. Thermal resistance from -40°C to $+100^{\circ}\text{C}$.

INSTALLATION HOLLOW MATERIAL:



INSTALLATION FULL MATERIAL:



APPLICATION

- > hollow or full brick
 - > concrete, gas concrete
 - > chipboard, sand-stone
 - > gypsum plasterboard
- (only sizes 5 – 8 mm, size 8 mm with screw max. dia 5 mm)



MATERIAL

Polyamide PA6
(Nylon)



ADVANTAGES

- > high quality
- > fast installation
- > usage in many materials

TECHNICAL DATA:

Size	Drill $\varnothing$	Minimal drill depth	Anchor length	Screw $\varnothing$	Recommended loads (concrete)
5x25	5	35	25	3-4	0,60
6x30	6	40	30	4-5	0,70
6x50	6	60	50	4-5	0,70
8x40	8	50	40	4,5-6	1,10
8x60	8	70	60	4,5-6	1,10
10x50	10	70	50	6-8	1,50
10x70	10	90	70	6-8	1,50
12x60	12	80	60	8-10	1,70

All figures are in mm

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

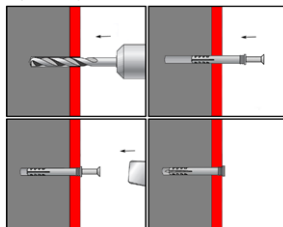


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INSTALLATION:



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



APPLICATION

- › concrete
- › stone
- › sand-stone



MATERIAL

Polyamide PA6
(Nylon)



ADVANTAGES

- › fast and easy installation
- › dismantling option

TECHNICAL DATA:

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

All figures are in mm

Recommended loads in kN (1 kN = 100 Kg)

TRUHLÁŘ a spol., s.r.o.

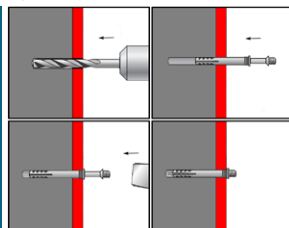
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NH-M



INSTALLATION:



These plugs with metric thread end 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



MATERIAL

Polyamide PA6
(Nylon)



ADVANTAGES

- › fast and easy installation

TECHNICAL DATA:

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Collar Ø	Fixable thickness	Recommended loads
6×40	6	45	40	3,8	10	10	0,48
8×60	8	65	60	4,8	11	20	0,65

All figures are in mm

Recommended loads in kN (1 kN ≈ 100 Kg)



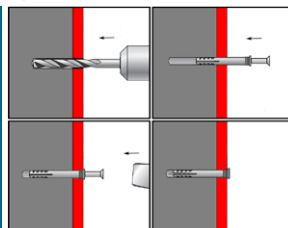
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NH-N



INSTALLATION:



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



APPLICATION

- › concrete
- › stone
- › sand-stone



MATERIAL

Polyamide PA6
(Nylon)



ADVANTAGES

- › fast and easy installation
- › dismantling option
- › stainless steel

TECHNICAL DATA:

Size	Drill Ø	Minimal drill depth	Anchor length	Screw Ø	Collar Ø	Fixable thickness	Recommended loads
5×35	5	40	35	3,4	9	10	0,31
6×40	6	45	40	3,8	10	10	0,48
6×60	6	65	60	3,8	10	30	0,48
6×80	6	85	80	3,8	10	50	0,48
8×60	8	65	60	4,8	11	20	0,65
8×80	8	85	80	4,8	11	40	0,65
8×100	8	105	100	4,8	11	60	0,65
8×120	8	125	120	4,8	11	80	0,65

All figures are in mm

Recommended loads in kN (1 kN = 100 Kg)

NAIL PLUGS WITH STAINLESS STEEL NAIL A2

NH - N

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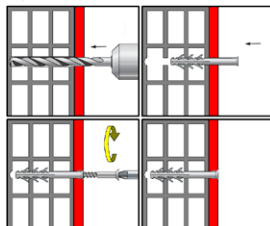


RM



The RM plug 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.

INSTALLATION:

**APPLICATION**

- › hollow brick
- › brick
- › concrete
- › stone

**MATERIAL**

Polyamide PA6
(Nylon)

**ADVANTAGES**

- › strong anchoring
- › high temperature resistance
- › easy installation

TECHNICAL DATA:

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

All figures are in mm

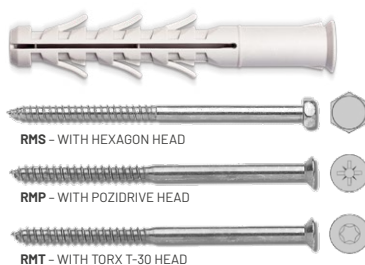
Recommended loads in kN (1 kN = 100 Kg)



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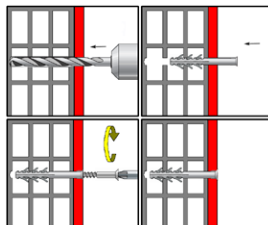
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RMS | RMP RMT



The RM plug 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 plugs are available in sets with hexagon, pozidrive and torx head.

INSTALLATION:



APPLICATION

- › hollow brick
- › brick
- › concrete
- › stone



MATERIAL

Polyamide PA6
(Nylon)



ADVANTAGES

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

TECHNICAL DATA:

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

All figures are in mm

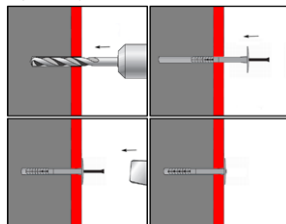
Recommended loads in kN (1 kN ≈ 100 Kg)

TTH



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

INSTALLATION:

**APPLICATION**

- › hollow brick
- › brick
- › concrete
- › stone

**MATERIAL**

Plug – Copolymer
Nail – Polyamide
(Nylon) with glass fibre

**ADVANTAGES**

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

TECHNICAL DATA:

Size	Drill Ø	Minimal drill depth	Fixing depth	Anchor lenght	Disc Ø	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 ≈ 100 Kg)

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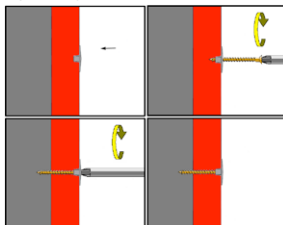
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TTP TIT



Insulation plate is **used for fixing insulation material** (polystyrene or mineral wool) into wood construction, wood, chipboard or plywood. Insulation plate **TTP** is **equip with special cap which prevent creation of thermal bridge**. The plate is produced from quality Copolymer.

INSTALLATION:



APPLICATION

- › wood
- › plywood
- › chipboard



MATERIAL

Copolymer



ADVANTAGES

- › low price
- › easy installation
- › no thermal bridge (TTP)

TECHNICAL DATA:

Size	Hole Ø	Screw Ø	Plate Ø	Plate high	Min. fixing depth
40/6	6,0	5-6	40	4	20
60/5	5,0	5	60	10	20
60/5-20	7,5	5-7,5	60	20	20

All figures are in mm

INSULATION PLATES

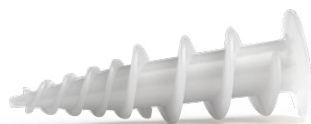
TTP, TIT

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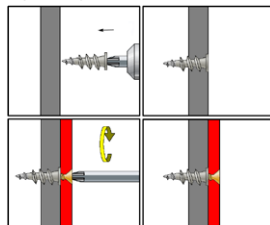


TURBO



Special plug 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.

INSTALLATION:



APPLICATION

- › gypsum plasterboard



MATERIAL

Polyamide (Nylon)
with glass fibre



ADVANTAGES

- › fast installation
- › easy installation
- › low price

TECHNICAL DATA:

Size	Anchor lenght	Screw Ø	Recommended loads
10×35	35	3,5-4	0,15

All figures are in mm

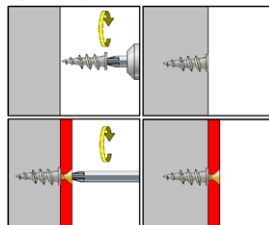
Recommended loads in kN (1 kN ≈ 100 Kg)

HDP



Special plug 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.

INSTALLATION:



APPLICATION

› polystyrene



MATERIAL

Polypropylene



ADVANTAGES

- › easy installation
- › fast installation
- › low price

TECHNICAL DATA:

Size	Anchor lenght	Screw $\varnothing$	Recommended loads
23x50	50	4-5	0,20

All figures are in mm

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

POLYSTYRENE PLUGS

HDP

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MAPS:



NOTES:

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