Installation materials

Thorsman

Cabling and fixing for demanding professionals





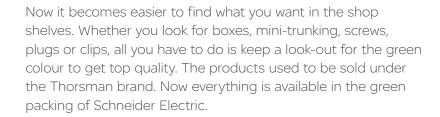
Get it right, right away



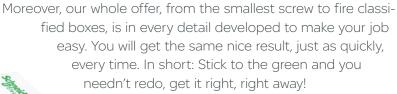
Make a green choice

Thorsman = Schneider Electric





But green is not only a colour to us in Schneider Electric. It is also a matter of responsibility. Many of our products are therefore also green while considering people and environment. Our production is both resource-effective and halogen-free, read more about this on pages 6–7.





| 6 | |
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| | 9 11 12 14 18 |



4 | Thorsman 11.2013 | Installation Material Schneider Delectric

The right thing yesterday and tomorrow

The company Thorsman has become integrated with Schneider Electric. And you may know of Thorsman, but what is Schneider Electric? It is the global energy specialist with around 100 000 employees in more than 100 countries and enormous resources. We go in for inventing or further developing the best products in the world, having the same aim as Thorsman: To facilitate your everyday life.

The right thing for the future

We concentrate much time and effort in studying what happens out there in your everyday life. This, in turn, results in innovations that simplify and improve modern installations. Like for instance, we have taken all alarming reports about carcinogenic and dangerous halogens quite seriously. So all our products are now halogen-free.

New!

Grep

Schneider

Grepi super plug with acid-proof screw for porous building blocks etc.



Get it right, right away!

Having the right products makes your installations correct at the first go. If your reality should change, our products must also keep up with this development. So, among the product news of the year you will for instance find a new concrete screw that allows you to work without wall plugs. The smart cable fixing Cable Wing that keeps your cables in order without reducing the flexibility and the through bolt TEX with high quality for the professional installer. As said before, with the right product you will get the right result, so make the right choice directly!

The new green Thorsman

The whole Thorsman range will be transferred to green Schneider Electric packages during the course of the year.

New!

Push-in terminals

For tool-less connection, 3 or 5 pole. Can take up to 2.5 mm² per pole.

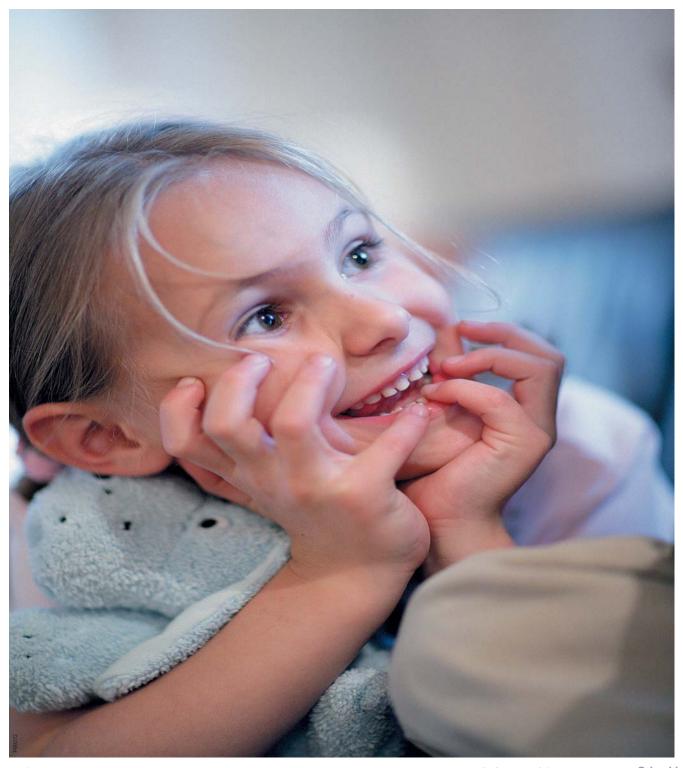
Schneider

Many want to be halogen-free

Thorsman fixing is!

Why all this sudden talk about halogens? What are they exactly? And why did Schneider Electric as early as in 2004 stop using flame retardants containing halogens?

We would like to tell you more about this. Read more on the next page!



6 | Thorsman 11.2013 | Installation Material Schneider

What are halogens?

Halogens are formed when certain elements are being mixed. They are fluorine, chlorine, bromine and iodine. One by one, in small quantities and in their natural spots, these salts and minerals do no harm. On the contrary, they are essential for various chemical processes in the earth crust and in the oceans. But ever since halogens came into use as flame retardants in electrical products, their injurious effects have become ovious. Much like lead, halogens are absorbed and stored by all living organisms, and they are decomposed just as slowly and are extremely toxic.

Why is it dangerous?

Experiments on animals show that bromated flame retardants may have an effect on sex hormones and thyroxine. As a result, metabolic disturbance, learning difficulties, deteriorated memory functions and injuries to the liver, the skin and the central nervous system may arise. Before 1960 halogens were not in use, and studies have shown that people had no PBDE (halogens) in their blood at that time. But today the PBDE content is doubled every 5 years in both human beings and wild animals.

For us 100% halogen-free material applies!

We take you, your health and our environment just as seriously as we do the products that we produce and sell. Therefore, Schneider Electric decided as early as in 2004 to stop using halogen-containing flame retardants with immediate effect. Other companies have chosen to phase out their use.



Schneider Installation Material | 11.2013 Thorsman | 7



Favourites in new packages in several places

Don't feel troubled if you won't recognize our packages on the shelves. Your old favourites are still in the range, but in new package designs. The reason for the change is that many selling shops have complained about broken boxes and packages. To avoid this problem, the new design will clearly show what is inside each box. And what's more, additional selling shops will increase availability. Thus, in all imaginable ways it will be easier for you to get it right, right away.

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Select Thorsman news

We constantly make supplementary additions to our range of products that facilitate today's installations. So, here are three innovations that will most certainly delight you! First, the smart cable fixing Cable Wing, to be used for flexible installations where you want to keep extra cable lengths in order. The next new products is Grepi, a plug for light concrete, being a frequent material today. And last but not least, we have produced a new and very smart concrete screw for the same reason.





The functioning of Cable Wing

Just screw the "wing" to the ceiling or to a piece of furniture and fix or wind the cable around it, until you need the extra length.







Through bolt Thorsman TEX

High quality through bolts for the professional installer. Documented quality SP/SITAC.



Grepi, plug for light concrete

Unlike an ordinary plug, Grepi gets a firm hold in light concrete without it crumbling around the drill hole when the screw is tightened home.



Finally you won't need to drill as much when working in concrete. Our new concrete screw only requires a hole and no plug.







Installation Material | 11.2013



Thorsman



In 1957 a man named Oswald Thorsman gets an idea of a better fixing of lamps and the like. He moulds the first sample of the now well-known plastic plug in his own kitchen oven. This innovation results in the foundation of the company Thorsman, and soon also junction boxes, trunking and everything else an electrician could need are in the range. The Thorsman company has today become integrated in Schneider Electric but as a homage to the innovation capacity and the quality, the fixing materials still bear Oswald's family name.

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Thorsman Installation materials

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| - Collar screws TST | |
| - Installation screws TSC and TSC-C5M | |
| - Installation screws TSF | |
| - Installation screws TSI | |
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| - Push-in terminals | |
| SECULAR CARACICA PARTERIORA CARACANA CA | ······································· |

Fixing guide



= Suitable

¹⁾ Together with screws and/or plugs etc.

²⁾ Together with plug

³⁾ Together with clip plug TCP

⁴⁾ Not natural stone

⁵⁾ Together with TPS nail plug

| Application | Product | Concrete, stonerock | Low density | Solid bricks and blocks | Hollow bricks | Plasterboard | Wooden board | Sheet metal | Mood |
|---|-----------------------------|------------------------|------------------------|----------------------------|------------------------|--------------|-----------------|-------------|------|
| Mini trunking | Wall plug TP | 1) | _1) | _1) | _1) | _1) | _1) | | |
| | Na links at TDO | | | | _ | | | | _ |
| | Nailplug TPS | • | • | • | • | • | • | | |
| | Installation screw TFT | • | 2) | • | 2) | • | • | | • |
| | Installation screw TSC | e 2) | e ²⁾ | 2) | e 2) | 2) | • | • | • |
| Installation trunking and Cable distribution trunking | Wall plug TP | •1) | •1) | • 1) | •1) | • 1) | •1) | | |
| 032 | Nailplug TPS | • | • | • | • | • | • | | |
| 022 | Cavity fixing TMX | • | | | | • | • | • | |
| 6 6 | Installation screw TSC | 2) | 2) | 2) | 2) | 2) | • | • | • |
| 33/24° - 24/24 | Concrete screw | •4) | | • | | | | | |
| Skirting trunking | Wall plug TP | 1) | • 1) | • 1) | • 1) | • 1) | • 1) | | |
| | Nailplug TPS | • | • | • | • | • | • | | |
| | Cavity fixing TPD | • | | • | | • | | | |
| | Cavity fixing THW | | | | | • | | | |
| | Installation screw TFT | • | e 2) | • | e ²⁾ | • | • | | • |
| | Installation screw TSC | _2) | 2) | 2) | 2) | 2) | • | • | • |
| | Concrete screw | •4) | | • | | | | | |
| Outlets and switches (surface mounted) | Wall plug TP | •1) | • 1) | •1) | • 1) | • 1) | •1) | | |
| | Nailplug TPS | • | • | • | • | • | • | | |
| | Cavity fixing TPD | • | | | | • | | | |
| | Cavity fixing THW | • | | | | • | | | |
| | Installation screw TFT | | • ²⁾ | • | • 2) | • | • | | • |
| | Wood screw TGS | 2) | e 2) | 2) | 2) | 2) | • | | • |
| = Suitable | 1) Together with screws and | d/or pluge et | • | 4) Not nati | ural stone | | | | |

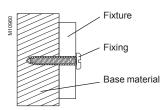
⁼ Suitable = Not suitable

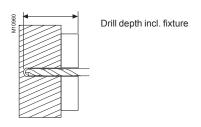
¹⁾ Together with screws and/or plugs etc.
2) Together with plug
3) Together with clip plug TCP

⁴⁾ Not natural stone ⁵⁾ Together with TPS nail plug

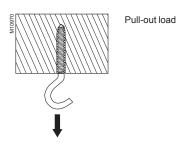
Technical information

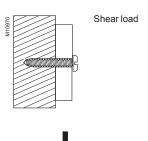
Terminology

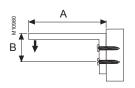




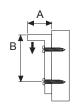
Types of load







High pull-out load when A is bigger than B.



Low pull-out load when A is smaller than B.

Metric units

Metric Units have been used throughout this handbook and all fixings are made to Metric Standard.

Strictly speaking, the recommended loads for the fixings should be listed in Newtons or Kilo Newtons (N or kN), as they are forces. But fixing calculations generally start from the weight of the fixture. For the sake of simplicity, we have chosen to give all loads in N or kN and suggest that the appropriate conversion of 1 kN = approximately 100 kg should be used.

Recommended load

Methods of testing fixings vary between different manufacturers, which makes it difficult to compare test results.

Our tests are performed together with internationally recognized testing institutes.

The test results presented in this catalogue include a safety factor. This implies that all recommended loads stated by us can safely be used.

Calculate the load

If you only have pull-out load or shear load you can easily determine the load per fixing point. But make allowance for any load which might be added later and for any uneven distribution of the load over the fixing points.

Often pull-out load appears together with shear load. Wall-mounted shelves are one example. The pull-out load increases with the distance from the wall. In most cases it is sufficient to add an extra margin, but be aware of the substantial pull-out load created in bracket fixings with high loads placed far out from the wall.

Choose the fixing to suit the base material

Study the load recommendations given for the base material which best agrees with your particular one.

Concrete

In-situ concrete normally has a strength of 25 N/mm² (called C25) or better. Precast structural components have considerably higher strength (C40–60).

Stone and rock

The same recommendations as for concrete can be used, but check for cracks.

Hollow bricks and building blocks

Hollow building blocks are normally of a low compressive strength (5 N/mm² or higher).

Due to the relatively low strength of these building materials, there is a limit for the size of the expansion fixings that can be used without cracking the brick or block. That is why load recommendations for some fixings are only given for the smaller sizes.

Solid bricks and blocks

Fixing in brick or block walls is one of the most frequent fixing situations. The strength of the wall depends on several factors that have to be considered.

- · Individual strength of the blocks or bricks
- · Strength of mortar joints
- · Workmanship in brick or block laying
- Support of the wall

Fixing of light fittings to a brick or block wall presents few problems. Try to avoid mortar joints.

With increasing weight and larger fixtures you should avoid mortar joints and make sure that the bricks or blocks are not cracking. As a general rule a larger quantity of smaller fixings is safer than some few larger fixings. Fixing of heavy fixtures to a brick or block wall is not recommended unless the wall has been designed for that purpose.

Technical information

Board materials

The cavity fixings are specialized fixings for plasterboard/gypsum board, plywood, particle board, chipboard, sheet metal and other board types where only one side of the material is accessible. Board materials vary in quality between countries and it is therefore difficult to compare test results. All cavity fixings are tested in well-defined Scandinavian plasterboard (13 and 2x13 mm) as being the most common board material. We recommend only loads up to 80 kg to be fixed directly in board materials. Heavier loads must be fixed in the structural elements.

Through fixing

Nail plugs and Anchors are examples of through fixings. They can be inserted through the hole in the fixture and into the base material while the fixture is still in position.

Minimum edge distance and internal spacing

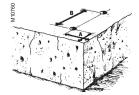
The distance between the fixing points and the nearest edge of the base material should exceed 5–10 times the hole diameter. The internal spacing between the fixing points should exceed 10–20 times the hole diameter. These are general recommendations, the specific information is given in the technical data for the fixing.

Excessive heat

Fixings made of plastic material are not suitable in environments with temperatures above 60 $^{\circ}\text{C}$ (140 $^{\circ}\text{F}). For exact figures, see the technical data for each specific fixing element.$

Fireproof fixings

Always consider the consequences of a fire. Do not use fixings made of plastic for fixtures in ceilings and on walls near emergency exits.



A = 5 to 10 times the hole diameter. (Example: Hole diameter = 10 mm. A = 50 to 100 mm) B = 10 to 20 times the hole diameter.



Technical information



Corrosion

All steel fixings must have a protection against corrosion in order to stay safe over a long time.

Electroplated steel (Fzb) is suitable for indoor and protected outdoor use, called C2 in our catalogue.

Hot dip galvanized steel (Fzv) is suitable for outdoor applications, called C3 or C4 in our catalogue, depending on the thickness of the zinc layer.

Acid proof stainless steel is suitable for aggressive indoor and outdoor environments, called C5M in our catalogue.

Atmospheric corrosivity categories and examples of typical environments

| Corrosivity category | Examples of typical environmen (informative only) | ts in a temperate climate |
|-----------------------------------|--|--|
| | Outdoors | Indoors |
| C1 very low | _ | Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels. |
| C2 low | Atmospheres with low level of pollution. Mostly rural areas. | Unheated buildings where condensation may occur, e.g. depots, sports halls, multi-storey car parks. |
| C3 medium | Urban and industrial atmospheres, moderate sulphur dioxide pollution. Coastal areas with low salinity. | Production rooms with high humidity and some air pollution, e.g. food-processing plants, laundries, breweries, dairies. |
| C4 high | Industrial areas and coastal areas with moderate salinity. | Chemical plants, swimming-baths, coastal ship- and boat yards, car-washs. |
| C5-I very high (industrial) | Industrial areas with high humidity and aggressive atmosphere. | Buildings in areas with almost permanent condensation and with high pollution. |
| C5-M very high (marine) | Coastal and offshore areas with high salinity. | Buildings in areas with almost permanent condensation and with high pollution. |

Unit conversions

| Weight | |
|--------|------|
| Kg | lb |
| 6 | 13 |
| 7 | 15 |
| 8 | 18 |
| 9 | 20 |
| 10 | 22 |
| 12 | 26 |
| 14 | 31 |
| 16 | 35 |
| 18 | 40 |
| 20 | 44 |
| 25 | 55 |
| 30 | 66 |
| 35 | 77 |
| 40 | 88 |
| 45 | 99 |
| 50 | 110 |
| 60 | 132 |
| 70 | 154 |
| 80 | 176 |
| 90 | 198 |
| 100 | 220 |
| 110 | 243 |
| 120 | 265 |
| 130 | 287 |
| 140 | 306 |
| 150 | 330 |
| 200 | 440 |
| 250 | 550 |
| 300 | 660 |
| 350 | 770 |
| 400 | 880 |
| 450 | 990 |
| 500 | 1100 |
| 600 | 1325 |
| 700 | 1545 |
| 800 | 1765 |
| 900 | 1985 |
| 1000 | 2205 |
| 1100 | 2425 |
| 1200 | 2645 |
| | |

| Drill diameters | | | | | |
|-----------------|--------------|--|--|--|--|
| Approxima | te convesion | | | | |
| mm | inch | | | | |
| 4 | 5/32 | | | | |
| 5 | 3/16 | | | | |
| 5.5 | 7/32 | | | | |
| 6 | 1/4 | | | | |
| 8 | 5/16 | | | | |
| 10 | 3/8 | | | | |
| 11 | 7/16 | | | | |
| 12 | 15/32 | | | | |
| 13 | 1/2 | | | | |
| 14 | 9/16 | | | | |
| 15 | 19/32 | | | | |
| 16 | 5/8 | | | | |
| 20 | 3/4 | | | | |
| 22 | 7/8 | | | | |
| 25 | 1 | | | | |
| 28 | 1 1/8 | | | | |
| 32 | 1 1/4 | | | | |
| 35 | 1 3/4 | | | | |
| 38 | 1 1/2 | | | | |

| Torque | | | | | | | |
|---------|--|--|--|--|--|--|--|
| lb&inch | | | | | | | |
| 74 | | | | | | | |
| 85 | | | | | | | |
| 175 | | | | | | | |
| 215 | | | | | | | |
| 260 | | | | | | | |
| 350 | | | | | | | |
| 430 | | | | | | | |
| 560 | | | | | | | |
| 1325 | | | | | | | |
| 2200 | | | | | | | |
| | | | | | | | |

 $\begin{array}{l} \textbf{Length} \\ mm \ to \ inch: \ mm \times 0.0349 \end{array}$ inch to mm: inch \times 25.40

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| Hillin | Wall plugs TP Plug Ø 5.5-20 mm Colour Code System | X |
|--|---|---|
| 1 | High performance plugs Grepi Plug Ø 10 mm | X |
| Samuel Sa | Nail plugs TPS Plug Ø 4-8 mm | X |
| | Clip plugs TCP Plug Ø 5.5 mm | X |
| | Universal plugs QUICKI, TPN Plug Ø 6-8 mm | X |

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Wall plugs Thorsman TP™







Description

TP is a wall plug of polythene for light-weight installations in most building materials. The plug is especially suitable for installations where shear loads are dominating. For mounting where pull-out loads dominate, or by high temperatures, metal fixings are recommended.

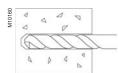
TP has a smooth surface to get high friction against the wall of the hole. Four slits spread the radial expansion in all dimensions.

The wall plug has a collar and wings to prevent the plug from rotating and disappearing into the hole.

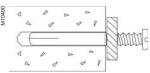
TP has a unique Colour Code™ to identify each plug size. This Colour Code has been registered as a trade mark in all EU countries and in Norway. The Colour Code is printed on the cartons.

Material data

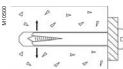
| Material data | |
|-------------------|---|
| Material | HDPE (polyethylene HD). |
| Colours | White, yellow, red, brown, blue, green. grey, orange. |
| Operative data | |
| Temperature range | _50°C to +80°C |



Drill the hole in accordance with the table and install the plug. In plasterboard - make a hole using a drill or an awl. The hole should be a press fit for the plug. Use TP1 yellow for a single sheet and TP2 red for double sheets.



Fix with a screw long enough to penetrate through the whole length of the plug and fixture.



The installation is ready and the screw has expanded the plug in a correct way.

| Technical data | | | | | | | | |
|----------------|----------------|---------------------------------------|---------------------|------------|------------------|-------------------------------|--|--|
| | Drill diameter | | | | | oading cap. d/Pull-out loa | with biggest screw ad ¹⁾ | |
| TP type | Concrete | Low-density ²⁾ concrete | Min. drill depth | Wood screw | Concrete C25 | Solid brick | Low-density ²⁾ concrete 500 and expanded clay | |
| | mm | mm | mm | Ø mm | kN ³⁾ | kN³) | kN ³⁾ | |
| TP0 | 5.5 | _ | 20 | 3.5-5 | 0.4/0.15 | 0.3/0.15 | _ | |
| TP1 | 5.5 | 5 | 25 | 3.5-5 | 0.5/0.25 | 0.4/0,2 | 0.1/0.04 | |
| TP2 | 5.5 | 5 | 40 | 3.5-5 | 0.6/0.4 | 0.5/0.3 | 0.15/0.04 | |
| TP2B | 8 | 7 | 45 | 5–6 | 1.2/0.8 | 0.7/0.4 | 0.25/0.1 | |
| TP3 | 10 | 9 | 50 | 5–7 | 1.4/1.0 | _ | 0.3/0.15 | |
| TP4 | 12 | 10 | 65 | 8–10 | 3.0/2.0 | _ | 0.5/0.25 | |
| TP 14 | 14 | _ | 78 | 10-12 | 4.0/2.5 | _ | _ | |
| TP 16 | 16 | _ | 88 | 12 | 5.0/3.0 | _ | _ | |
| TP 6x30 | 6 | 6 | 35 | 3.5–5 | 0.6/0.4 | 0.5/0.3 | 0.2/0.08 | |

 ¹⁾ Safety factor 4.5 for shear and 6 for pull-out load.
 ²⁾ Low-density concrete might also be called lightweight or aerated concrete.
 ³⁾ 1 kN ≈ 100 kg.

| | Туре | Colour | Dimensions | Qty per | EAN code | Ref. No. |
|----------------|-----------------|--------|---|------------|--------------------------------|--------------------|
| | | | Ø/L (mm) olug, colour coded for easy tone, low-density concrete | | | |
| | Material: Polye | , , | | | | |
| | Plugs on spru | | 5 5/40 F | 100 | 704500400005 | 4000000 |
| **** | TP0 | White | 5.5/16.5 | 100 | 7315881000005 | 1000009 |
| **** | TP1 | Yellow | 5.5/22 | 100 | 7315881001002 | 1001007 |
| **** | TP2 | Red | 5.5/35 | 100 | 7315881003006 | 1003003 |
| ***** | TP2B | Brown | 8/40 | 100 | 7315881005000 | 1005008 |
| **** | TP3 | Blue | 10/45 | 10 | 3606480621539 | IMT48002 |
| | TP14 | Grey | 14/70 | 10 | 3606480335037 | IMT38063 |
| | TP16 | Orange | 16/80 | 10 | 3606480335044 | IMT38064 |
| | Single plugs | | | | | |
| | TP0 | White | 5.5/16.5 | 500 | 7315881000012 | 1000017 |
| 1 | TP1 | Yellow | 5.5/22 | 500 100 | 7315881001026 7315880100003 | 1001023 1001025 |
| And the second | TP2 | Red | 5.5/35 | 250 | 7315881003013 | 1003011 |
| | TP 6x30 | Red | 6/30 | 100 250 | 7315881003020 7315880100010 | 1003020 1003029 |
| 1 | TP2B | Brown | 8/40 | 100 | 7315881005017 | 1005016 |
| | ТРЗ | Blue | 10/45 | 100 | 3606480619489 | IMT48000 |
| | TP4 | Green | 12/60 | 50 | 3606480619496 | IMT48001 |

Wall plugs Thorsman TP™

| Ran | ige, bulk | | | | | | |
|---------|-----------|-------------|---|--|--------------------|---------------|----------|
| | | Туре | Colour | Dimensions Ø/L (mm) | Qty per package | EAN code | Ref. No. |
| | | | . Suitable for concrete, so bulk package. | olug, colour coded for easy ttone, low-density concrete | | | |
| | | Bulk/carton | | | | | |
| 2002 | | TP0 | White | 5.5/16.5 | 20000 | 7315881000708 | 1000708 |
| | 1 | TP1 | Yellow | 5.5/22 | 20000 | 7315881001705 | 1001700 |
| 0100714 | 1 | TP2 | Red | 5.5/35 | 14000 | 7315881003709 | 1003706 |
| | | Bulk/bag | | | | | |
| | 1 | TP1 | Yellow | 5.5/22 | 50000 | 7315881001804 | 1001809 |
| | | TP2 | Red | 5.5/35 | 20000 | 7315881003808 | 1003805 |
| | | TP 6x30 | Red | 6/30 | 20000 | 7315881003815 | 1003815 |
| | 0 | TP2B | Brown | 8/40 | 16000 | 7315881005802 | 1005800 |
| | | TP3 | Blue | 10/45 | 5000 | 7315881006809 | 1006808 |
| | | TP4 | Green | 12/60 | 2500 | 7315881007806 | 1007806 |

High performance plugs Thorsman Grepi TPH



Description

The TPH Grepi plug range includes high-performance wall plugs for demanding installations.

The nylon plug has a soft outer skin made of thermoplastic rubber. This outer skin acts as a shock absorber and also greatly improves the performance of the plugs in low-density concrete and softer brick materials.

The range consists of two different plug lengths, both with a diameter of Ø10 mm. The long plug with a length of 110 mm is suitable for through installation, whereas the short plug with a length of 67 mm is suitable for regular plug installation.

Both plugs are provided with a specially designed acid-proof C5M screw, 72 or 115 mm long. The short plug is also available without screw. All screws have a Torx T30 recess.

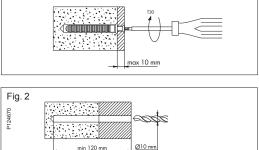
The plugs are suitable for concrete, stone, low-density concrete, expanded clay (Leca), hollow blocks, hollow bricks and solid bricks.

- High load values
- Easy to install
- Self-centering design of the screw
- Varying temperature range
- Shock-absorbing design
- Soft outer thermoplastic skin prevents rotation
- Acid proof C5M stainless steel screw with Torx T30 recess

Material data

| Material | PA6 (Polyamide 6) with TPR (Thermoplastic rubber) |
|-------------------|---|
| outer | skin |
| Temperature range | From -20 to +60°C. |

Fig. 1 Ø 10 mm min 70 mm



max 50 mm

Installation

We recommend the use of a hammer drill bit in concrete, but in low-density concrete a regular drill bit should be used. Clean the hole before inserting the plug. TPH Grepi plugs can be used both as a regular plug (see Fig. 1) and for through installation (see Fig. 2). The screw installs manually or with a cordless screw-driver using a T30 bit.

Fig. 1:

- Minimum drill depth 70 mm when using the short 72 mm screw and an object of maximum 10 mm thickness. Adjust the drill depth accordingly if the object is thinner than 10 mm.
- Minimum drill depth 70 mm when using the long 115 mm screw and an object of maximum 45 mm thickness. Adjust the drill depth accordingly if the object is thinner than 45 mm.

Fig. 2:

Through installation: The drill depth plus the thickness of the object must be minimum 120 mm.

| | Technical data | | | | | Recommended load 1) | | | | |
|----------|------------------------------|---------|------------------|------------------|---------------------------|---------------------|-------|----------|---|--|
| | Type Plug Ø x plug length | Drill Ø | Min. drill depth | Min. drill depth | Max. thickness of fixture | Concrete C | 25 | | ty ²⁾ concrete (500 expanded clay | |
| | mm | mm | mm | mm | mm | Pull-out | Shear | Pull-out | Shear | |
| IMT39081 | TPH-10x67WS | 10 | 70 | | 10 | 0.8 | 1.0 | 0.6 | 0.7 | |
| IMT39082 | TPH-10x67WS | 10 | 70 | | 10 | 0.8 | 1.0 | 0.6 | 0.7 | |
| IMT39083 | TPH-10x67WLS | 10 | 70 | | 45 | 0.8 | 0.3 | 0.6 | 0.3 | |
| IMT39084 | TPH-10x67 | 10 | 70 | | - | - | - | - | - | |
| IMT39085 | TPH-10x110WS | 10 | | 120 | 50 | 0.8 | 0.3 | 0.6 | 0.3 | |
| IMT39086 | TPH-10x110WS | 10 | | 120 | 50 | 0.8 | 0.3 | 0.6 | 0.3 | |

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¹⁾ Safety factor for pull-out load 3 and shear load 2.5.
²⁾ Low-density concrete might also be called lightweight or aerated concrete.

High performance plugs

| Range | | | | | | | | |
|---------|--|---------------------------------------|----------------------|---------------------|-----------------------------|--------------------|---------------------|----------|
| | | Туре | Screw length (mm) | Colour | Dimensions Ø/length (mm) | Qty per package | EAN code | Ref. No. |
| | | Plug with screw | | | | | | |
| D 2 | | High-performance Material: PA/TPR. | plug with specia | Illy designed acid- | proof C5M screw. Suita | able for regular | plug installations. | |
| | No. of the last of | TPH-10x67WS | 72 | Green/black | Ø10/67 | 4 | 3606480302145 | IMT39081 |
| | A Particular of the Particular | TPH-10x67WS | 72 | Green/black | Ø10/67 | 20 | 3606480302152 | IMT39082 |
| | | TPH-10x67WLS | 115 | Green/black | Ø10/67 | 20 | 3606480302169 | IMT39083 |
| 06/7117 | | High-performance Material: PA/TPR. | plug with specia | Ily designed acid- | proof C5M screw. Suita | able for through | -installations. | |
| | | TPH-10x110WS | 115 | Green/black | Ø10/110 | 4 | 3606480302183 | IMT39085 |
| • | 3 | TPH-10x110WS | 115 | Green/black | Ø10/110 | 20 | 3606480302190 | IMT39086 |
| | | Plug without scre | w | | | | | |
| 717748 | | High-performance Material: PA/TPR. | plug without scr | ew. Suitable for re | gular plug installations | | | |
| | 1 | TPH-10x67 | _ | Green/black | Ø10/67 | 20 | 3606480302176 | IMT39084 |

Nail plugs Thorsman TPS





Description

Thorsman TPS is a range of nail plugs for all types of through installation.

All types of through installation, such as electrical trunking, switches, battens and cable clamps.

Suitable for concrete, stone, low-density concrete, expanded clay, hollow blocks and bricks, solid bricks and plasterboard.

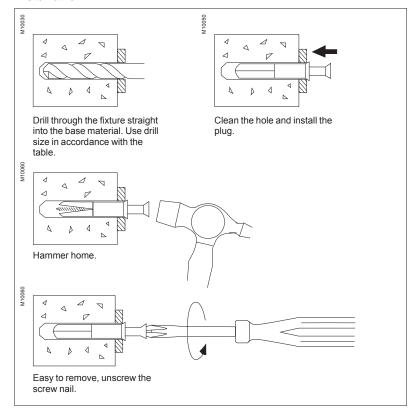
Benefits

- Removable hammer-in fixing
- Fast installation
- Powerful expansion high load values
- Complete range for electrical installations
- Through fixing

Material and operative data

| Plug | PA (polyamide) |
|-------------------|----------------------|
| Screw nail | Steel, electroplated |
| Temperature range | From -40° to +80°C |

Installation



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| Technical data (1 kN approx. 100 kg) | | | | | | | | | | | |
|---|------|------------|-------------------------|------------------|-----------------------------------|-------------------|--|--|--|--|--|
| Туре | Plug | Screw nail | Min. drill depth | Max. thickness | Recommended load Shear/pull-out1) | | | | | | |
| Drill Ø/max. fixture thickness x plug length mm | Ø mm | Ø mm | including fixture mm | of fixture mm | Concrete C25 kN | Solid brick kN | Low-density ²⁾ concrete (500 grade) and expanded clay, kN | | | | |
| TPS-4/5x25 | 4 | 2.5 | 30 | 5 | 0.15/0.05 | 0.15/0.05 | _ | | | | |
| TPS-4/15x35 | 4 | 2.5 | 40 | 15 | 0.15/0.05 | 0.15/0.05 | _ | | | | |
| TPS-5/5x35 | 5 | 3 | 42 | 5 | 0.3/0.1 | 0.3/0.1 | _ | | | | |
| TPS-5/20x50 | 5 | 3 | 57 | 20 | 0.3/0.1 | 0.3/0.1 | _ | | | | |
| TPS-6/5x35 | 6 | 3.5 | 42 | 5 | 0.4/0.2 | 0.4/0.2 | 0.1/0.07 | | | | |
| TPS-6/20x50 | 6 | 3.5 | 57 | 20 | 0.4/0.2 | 0.4/0.2 | 0.1/0.07 | | | | |

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¹⁾ Safety factor 4.5 for shear and 6 for pull-out load. ²⁾ Low-density concrete might also be called lightweight or aerated concrete.

Nail plugs Thorsman TPS

| TPS-4/15x35 Clear Ø7/55 100 7315881149353 114 TPS-5/5x35 Clear Ø10/60 100 7315881149605 114 TPS-5/20x50 Clear Ø10/75 100 7315881149704 114 | | | Туре | Colour | Dimensions Ø/Length (mm) | Qty per package | EAN code | Ref. No. |
|--|------|--------------|--------------------------------|------------------------|-----------------------------|--------------------|---------------|-----------|
| TPS-4/15x35 Clear Ø7/55 100 7315881149353 114 TPS-5/5x35 Clear Ø10/60 100 7315881149605 114 TPS-5/20x50 Clear Ø10/75 100 7315881149704 114 | | | frames. Suitable for co board. | ncrete, stone, low-den | | | | |
| TPS-5/5x35 Clear Ø10/60 100 7315881149605 114 TPS-5/20x50 Clear Ø10/75 100 7315881149704 114 | | | TPS-4/5x25 | Clear | Ø7/45 | 100 | 7315881149308 | IMT114930 |
| TPS-5/20x50 Clear Ø10/75 100 7315881149704 114 | | a division | TPS-4/15x35 | Clear | Ø7/55 | 100 | 7315881149353 | 1149350 |
| TPS-5/20x50 Clear Ø10/75 100 7315881149704 114 TPS-6/5x35 Clear Ø10/60 100 7315881150007 115 | | 0 | TPS-5/5x35 | Clear | Ø10/60 | 100 | 7315881149605 | 1149608 |
| TPS-6/5x35 Clear Ø10/60 100 7315881150007 115 | 704 | 0 | TPS-5/20x50 | Clear | Ø10/75 | 100 | 7315881149704 | 1149707 |
| | P125 | - Thistipped | TPS-6/5x35 | Clear | Ø10/60 | 100 | 7315881150007 | 1150002 |
| TPS-6/20x50 Clear Ø10/75 100 7315880100027 115 | | 0 | | Clear | Ø10/75 | 100 | 7315880100027 | 1150051 |

Clip plugs Thorsman TCP



Description

Thorsman TCP is a range of clip plugs for the installation of cable clips and nails.

Applications

Installations of TC clips, TKK/APK clamps and nails.

Suitable for concrete, stone, low-density concrete, expanded clay, solid bricks and plasterboard.

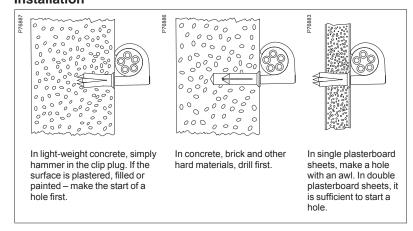
Benefits

• Permits nailing of clips and clamps in masonry materials

Material and operative data

| Material | PS (polystyrene, impact-resistant) |
|-------------------|------------------------------------|
| Temperature range | From -40° to +70°C |

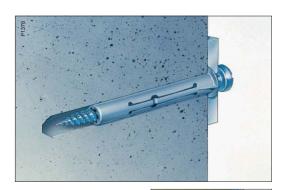
Installation



| Range | • | | | | | | | |
|---------|---|--|---------|--------------------|-----------------------------|--------------------|--------------------------|--------------------|
| | | Туре | Drill Ø | Colour | Dimensions Ø/Length (mm) | Qty per package | EAN code | Ref. No. |
| | | Clip plug for the and plasterbo Material: PS (| ard. | of cable clips and | nails. Suitable for concr | ete, stone, low-de | nsity concrete, expanded | clay, solid bricks |
| P125428 | 1 | TCP-0 | 5.5 | White | 7.5/18 | 100 | 7315881140008 | 1140003 |
| P60845 | | TCP-1 | 5.5 | Yellow | 7.5/25 | 100 | 7315881141005 | 1141001 |

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Universal plugs Thorsman QUICKI™ TPN



Description

Thorsman QUICKI TPN is a range of universal wall plugs with fully threaded screws for all types of building material.

Applications

TPN can be used in most situations where shear loads are dominating. Suitable for concrete, natural stone, low-density concrete 500 (not in porous low-density concrete 400-450), expanded clay, hollow blocks and bricks, solid bricks and plasterboard.

Benefits

- Universal fixing providing great expansion and secure fixing in all building materials
- Both fixing and screw included in the package
- Fully threaded screw even thin objects can be fixed
- · Two sizes cover all situations



Material and operative data

| Material | Fixing: Modified PA (polyamide) |
|-------------------|--|
| | Screw: Steel, hardened and bright galvanized |
| Temperature range | From -20° to +80°C |

| Range | | | | | | |
|---------|---|----------------------|-----------------------------|-----------------|----------|----------|
| | Туре | Colour | Dimensions Ø/Length (mm) | Qty per package | EAN code | Ref. No. |
| P777786 | Universal wall plug includi ty concrete 500 (not in por plasterboard. Material: PA (polyamide) a | ous low-density cond | | | | |

| TPN-6x35 | Grey | 6/35 | 25 | 7315881051007 | 1051007 |
|----------|------|------|----|---------------|---------|
| TPN-8x50 | Grey | 8/50 | 25 | 7315881052004 | 1052004 |

| Technical d | Technical data (1 kN approx. 100 kg) | | | | | | | | | | | | |
|-------------|--------------------------------------|-------|------------|-------------------------|-----------|--------------|---------------------------|-----------------------|----------------------------|--|--|--|--|
| Туре | Screw size | Drill | Min. drill | Max. | | | | | | | | | |
| Ø x length | ØxL | | depth | thickness of fixture | thickness | Concrete C25 | Low-density ²⁾ | Plasterboard 13 mm | Plasterboard 2x13=26 mm | | | | |
| mm | mm | Ø mm | mm | mm | mm | N | ex-panded clay, N | N | N | | | | |
| TPN-6x35 | 4x50 | 6 | 50 | 16 | 9 | 500/100 | 200/60 | 180/60 | 260/80 | | | | |
| TPN-8x50 | 5x60 | 8 | 60 | 12 | 3 | 600/150 | 250/80 | 200/60 | 350/140 | | | | |

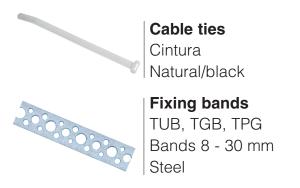
¹⁾Safety factor 4.5 for shear and 6 for pull-out load. ²⁾Low-density concrete might also be called lightweight or aerated concrete.

Plugs

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X

X

Cable ties Thorsman Cintura



Description

Cable ties are used to bundle up and fix cables, conduits and tubing.

There are two types of Thorsman Cintura cable ties available;

- 1. Made of clear polyamide, only for indoor use.
- 2. Made of UV-stabilized black polyamide, for outdoor use.

Benefits

- The cable ties are self-locking. They cannot be opened and re-sealed.
- The cable ties have smooth rounded edges for easier handling and safer installation.
- $\bullet\,$ The bent rounded tip allows easier insertion through the head of the cable tie.
- · Documented quality.
- · Halogen-free.

Material & operative data

| Material | PA (Polyamide) 6.6, halogen-free | | | | | |
|---|--|--|--|--|--|--|
| Colour | Clear | | | | | |
| Material | PA (Polyamide) 6.6 UV-stabilized, halogen-free | | | | | |
| Colour | Black | | | | | |
| Product standard | IEC 62275 | | | | | |
| Melting point | 250°C | | | | | |
| Hot wire test (NF C 20-455) | 650°C / 30 s | | | | | |
| Flammability properties | Self-extinguishing acc. to UL 94 class V-2 | | | | | |
| Temperature range | −40°C − +85°C | | | | | |
| Resistance to chemical age oil products chlorinated | Good resistance to: Organic bases/acids, solvents Limited resistance to: Acids | | | | | |
| | No resistance to: Phenol | | | | | |

Cable ties Thorsman Cintura™

| Range Cable ties | | | | | | | |
|-------------------|--|----------------|--------------------------|--------------------|--------------------------------|----------------------|----------------------|
| rtungo oublo tioo | Туре | Colour | Dimensions w/l (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
| | Cable ties | | , | 1 | | | |
| | Cable tie for safe and fast c irrespective of storage cond Material: PA 6.6. | | ables, conduits and tubi | ng. Delivered in a | sealed packaging to | ensure perfor | mance, |
| | Cable tie width 2.5 | | | | | | |
| P140800 | Max. clamping Ø 18 mm | Clear Black | 2.5/100 | 1000 | 3606480199554 3606480199561 | 20062123 20062124 | ENN46902 ENN46952 |
| | | Clear Black | 2.5/100 | 100 | 7315882400026 7315882400033 | 10001136 10001137 | 2400 026 2400 033 |
| P140801 | Max. clamping Ø 30 mm | Clear Black | 2.5/120 | 1000 | 3606480199578 3606480199585 | 20062125 20062126 | ENN46904 ENN46954 |
| | Max. clamping Ø 50 mm | Clear Black | 2.5/200 | 1000 | 3606480199615 3606480199622 | 20062129 20062130 | ENN46906 ENN46956 |
| | Cable tie width 3.6 | | | | | | |
| | Max. clamping Ø 33 mm | Clear Black | 3.6/140 | 1000 | 3606480199653 3606480199660 | 20062133 20062134 | ENN46908 ENN46958 |
| | Max. clamping Ø 35 mm | Clear Black | 3.6/150 | 100 | 7315882400064 7315882400071 | 10001138 10001139 | 2400 064 2400 071 |
| | Max. clamping Ø 50 mm | Clear | 3.6/200 | 1000 | 3606480199691 | 20062137 | ENN46939 |
| | | Clear Black | 3.6/200 | 100 | 7315882400149 7315882400156 | 10001146 10001147 | 2400 149 2400 156 |
| | Max. clamping Ø 76 mm | Clear Black | 3.6/295 | 100 | 3606480199707 3606480199714 | 20062138 20062139 | ENN46910 ENN46960 |
| | Max. clamping Ø 102 mm | Clear | 3.6/370 | 100 | 3606480199721 | 20062140 | ENN46942 |
| | Cable tie width 4.6 | | | | | | |
| | Max. clamping Ø 50 mm | Clear Black | 4.6/200 | 100 | 7315882400101 7315882400118 | 10001142 10001143 | 2400 101 2400 118 |
| | Cable tie width 4.8 | | | | | | |
| | Max. clamping Ø 43 mm | Clear Black | 4.8/188 | 1000 | 3606480199752 3606480199769 | 20062143 20062144 | ENN46914 ENN46964 |
| | Max. clamping Ø 50 mm | Clear Black | 4.8/200 | 1000 | 3606480199790 3606480199806 | 20062147 20062148 | ENN46916 ENN46966 |
| | Max. clamping Ø 60 mm | Clear Black | 4.8/250 | 100 | 3606480199813 3606480199820 | 20062149 20062150 | ENN46918 ENN46968 |
| | | Clear Black | 4.8/250 | 100 | 7332418021135 7332418021142 | 20064089 20064090 | 2400 123 2400 124 |
| | Max. clamping Ø 76 mm | Clear Black | 4.8/300 | 100 | 3606480199851 3606480199868 | 20062153 20062154 | ENN46919 ENN46969 |
| | | Clear Black | 4.8/300 | 100 | 7315882400187 7315882400194 | 10001150 10001151 | 2400 187 2400 194 |
| | Max. clamping Ø 102 mm | Clear Black | 4.8/368 | 100 | 3606480199875 3606480199882 | 20062155 20062156 | ENN46920 ENN46970 |
| | | Clear Black | 4.8/370 | 100 | 7315882400248 7315882400255 | 10001152 10001153 | 2400 248 2400 255 |
| | Cable tie width 7.6 | | | | | | |
| | Max. clamping Ø 76 mm | Black | 7.6/297 | 100 | 3606480199943 | 20062162 | ENN46974 |
| | Max. clamping Ø 102 mm | Clear Black | 7.6/368 | 100 | 3606480199950 3606480199967 | 20062163 20062164 | ENN46925 ENN46975 |
| | Max. clamping Ø 105 mm | Clear Black | 7.6/380 | 100 | 7315882400286 7315882400293 | 10001154 10001155 | 2400 286 2400 293 |
| | Cable tie width 9.0 | D | 0446 | | 0000:: | 00000 | ELD. CO |
| | Max. clamping Ø 120 mm Max. clamping Ø 140 mm | Black | 9/430 9/530 | 100 | 3606480199981 3606480199998 | 20062166 | ENN46976 ENN46927 |
| | Max. clamping Ø 228 mm | Black Black | 9/775 | 100 | 3606480200007 3606480200014 | 20062168 | ENN46977 ENN46978 |
| | | | | | | | |

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Cable ties Thorsman Cintura™

| | | Туре | Colour | Dimensions w/l (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
|--------------------------------------|----------------|---|----------------------------------|---|---------------------|---|-----------------------------|--------------|
| | | Identification ties | | | | | | |
| | | Identification tie with marke performance, irrespective of Material: PA 6.6. | r for safe and of storage con | fast clamping of cables ditions. | s, conduits and tul | bing. Delivered in a s | ealed packagi | ng to ensure |
| 200 | | Max. clamping Ø 18 mm, marker size 20x9 | Clear | 2.5/110 | 100 | 3295150462205 | 20064017 | ENN46220 |
| 820 | - 10 | Max. clamping Ø 18 mm, marker size 25x8 | Clear | 2.5/100 | 100 | 3295150462229 | 20064018 | ENN46222 |
| 2000 | | Max. clamping Ø 43 mm, marker size 23x13 | Clear | 4.8/220 | 100 | 3295150462250 | 20064019 | ENN46225 |
| | | | | | | | | |
| Ranç | ge Accessories | | | | | | | |
| Rang | ge Accessories | Self-adhesive bases | | | | | | _ |
| Ranç | ge Accessories | Self-adhesive bases Self-adhesive base for the f screw-fix option. Material: PA 6.6. | ixing of cable | ties. The base for max | . tie width 4.8 mm | is both self-adhesive | and has an a | dditional |
| | ge Accessories | Self-adhesive base for the f screw-fix option. | ixing of cable | e ties. The base for max | tie width 4.8 mm | is both self-adhesive | e and has an ad 20064015 | |
| 777 71 1 | ge Accessories | Self-adhesive base for the f screw-fix option. Material: PA 6.6. | | | | | | ENN46104 |
| F121327 | ge Accessories | Self-adhesive base for the f screw-fix option. Material: PA 6.6. For max. tie width 3.6 mm | Clear | 19/19/6 | 100 | 3295150461048 | 20064015 | ENN46104 |
| 175,020 | ge Accessories | Self-adhesive base for the f screw-fix option. Material: PA 6.6. For max. tie width 3.6 mm | Clear | 19/19/6 26.5/26.5/8 | 100 | 3295150461048 | 20064015 | ENN46104 |
| 175,020 | ge Accessories | Self-adhesive base for the f screw-fix option. Material: PA 6.6. For max. tie width 3.6 mm For max. tie width 4.8 mm Cradle Cradle for the fixing of cable | Clear | 19/19/6 26.5/26.5/8 | 100 | 3295150461048 | 20064015 | ENN46104 |
| 175,020 | ge Accessories | Self-adhesive base for the f screw-fix option. Material: PA 6.6. For max. tie width 3.6 mm For max. tie width 4.8 mm Cradle Cradle for the fixing of cable Material: PA 6.6. For max. tie width 7.8 mm | Clear Clear | 19/19/6 26.5/26.5/8 vith screw or rivet. | 100 | 3295150461048 3295150461055 | 20064015 | ENN46104 |
| Rang 728171d 928171d 1878721d 187874 | ge Accessories | Self-adhesive base for the f screw-fix option. Material: PA 6.6. For max. tie width 3.6 mm For max. tie width 4.8 mm Cradle Cradle for the fixing of cable Material: PA 6.6. | Clear Clear eties. Fixed w | 19/19/6 26.5/26.5/8 vith screw or rivet. 22.2/15.9/9.7 | 100 | 3295150461048 3295150461055 3295150461093 | 20064015 | ENN46104 |

Fixing bandsThorsman TUB™, TPG,TUB



Description

Fixing band for pendulum suspension, clamping, bracing, etc. in electrical, building and heating/water/sanitation installations.

The range includes three different types of band.

TGB Galvanized band

Cold-rolled and galvanized steel band with closely punched holes for easy installation.

TPG Galvanized plastic coated band

Cold-rolled and galvanized steel band, coated with white PVC plastic. Closely punched holes for easy installation.

TUB Plastic-enclosed universal band

Cold-rolled and galvanized steel band, enclosed with UV-stabilized PELD, polyethylene. The plastic encloses the whole band and also fills out the punched holes. This means that no humidity can come through at the screw passages, which makes the band very resistant to corrosion.

Benefits

- Wide range
- Can support anything from lightweight to heavy installations
- · Can handle most installation situations in all types of environment
- Corrosion-resistant
- Easy to cut and shape
- · Fire-resistant

Material and operative data

| TGB | Material | Cold-rolled, galvanized steel | | | |
|-----|------------------------------|---|--|--|--|
| | Temp. area –40°C to +100°C | | | | |
| | Not suitab | ole for outdoor use | | | |
| TPG | Material | Cold-rolled, galvanized steel PVC plastic coating, white | | | |
| | Temp.area -40°C to +60°C | | | | |
| | Not suitable for outdoor use | | | | |
| TUB | Material | Cold-rolled, galvanized steel UV-stabilized, self-extinguishing PELD (polyethylene) | | | |
| | Temp.area -40°C to +60°C | | | | |
| | Suitable for outdoor use | | | | |

| Technical data | | | | | | | | |
|----------------|-------------------------------|-------------------|--|--|--|--|--|--|
| Туре | Surface coating ¹⁾ | Hole dim, mm | Practical loading capacity kN ²⁾ | | | | | |
| TGB-12x0.7 | Zn 20 | Ø 2.5/5 | 1.2 | | | | | |
| TGB-20x0.7 | Zn 20 | Ø 3.5/4.5/6.5/8.5 | 1.8 | | | | | |
| TGB-20x1 | Zn 20 | Ø 3.5/7 | 2.5 | | | | | |
| TGB-25x2 | Zn 20 | Ø 4/8 | 7.0 | | | | | |
| TPG-12 | Zn 20 + PVC | Ø 2.5/5 | 1.0 | | | | | |
| TPG-20 | Zn 20 + PVC | Ø 3.5/7 | 2.8 | | | | | |
| TUB-8 | Zn 20 + PELD | □ 5.5x5.5 | 0.4 | | | | | |
| TUB-12 | Zn 20 + PELD | ☐ 6x6 | 1.0 | | | | | |

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Surface coating explanations:

• Zn 20 = 20 µm zinc per side

• PELD = Polyethylene, low density, UV-stabilized and self-extinguishing

• PVC = Polyvnyl chloride plastic, 100 µm per side

Safety factor 1.8 for breaking load.

Fixing bandsThorsman TGB™, TPG, TUB

| ange | | | | | <u> </u> | | | 5 () |
|---|---|--------|----------------------|------------------|--------------------|-------------------------|--------------------|------------|
| | Туре | Colour | Dimensions w/t mm | Length m/roll | Qty per package | EAN code | Internal ID-No. | Ref. No. |
| | TGB | | | | | | | |
| | Cold-rolled and ga Material: Galvaniz | | | | | | | |
| (200000000 | TGB-12x0.7 | _ | 12.7/0.7 | 10 | 1 | 7315882705114 | 10001219 | 2705 110 |
| 100 | TGB-20x0.7 | _ | 20/0.7 | 25 | 1 | 7315882705312 | 10001220 | 2705 31 |
| 400000000000000000000000000000000000000 | TGB-20x1 | _ | 20/1 | 10 | 1 | 7315882705329 | 10001221 | 2705 32 |
| | TGB-25x2 | _ | 25/2 | 10 | 1 | 7315882705428 | 10001223 | 2705 42 |
| | TPG | | | | | | | |
| (3)30000000 | Cold-rolled and ga Material: Plastic c | | | | | y punched holes for ea | asy installation | |
| | TPG-12 | White | 12.7/0.6 | 10 | 1 | 7315882740016 | 10001226 | 2740 01 |
| 1,000,000,000,000 | TPG-20 | White | 20/1 | 10 | 1 | 7315882741013 | 10001227 | 2741 01 |
| | TUB | | | | | | | |
| | Cold-rolled and ga | | | | ized PELD, po | lyethylene. The plastic | encases the | whole band |



Material: Plastic encased, galvanized steel band, mild steel SS 1151-10.

| TUB-8 | White | 9/2.5 | 10 | 1 | 7315882703011 | 10001206 | 2703 015 |
|--------|---------------|--------|----|---|--------------------------------|----------------------|----------------------|
| TUB-12 | White Grey | 14/2.5 | 10 | 1 | 7315882704018 7315882704025 | 10001209 10001210 | 2704 013 2704 021 |

Schneider Installation Material | 11.2013 Thorsman | 37



38 | Thorsman 11.2013 | Installation Material Schneider Pelectric



Schneider Installation Material | 11.2013 Thorsman | 39







Description

The Thorsman TC clip range includes a wide range of clips in various designs and dimensions, colours, nails and packages, intended for the installation of round and flat cables. The packages of the clips are provided with colour pictures of the correct product.

Clips in corrosivity category TC-C5M have a nail of acid-resistant stainless steel and can be used in extra tough environments.

The TCD type is intended for the installation of two flat cables side by side. The clips are made of impact-resistant, UV-stabilized polypropylene.

Cable capacity

Cable dimensions according to each type name respectively. A minus (-) in the name states clips for round cables, (x) states clips for flat cables.

Material data

| Material data | | |
|---------------------------|--|---|
| Material | Clip: impact resistant, U\ ene), halogen-free. | /-stabilized PP (polypropyl- |
| | Nails: | |
| | | Hardened and electro- |
| plated steel, zinc coatin | g (5 µm). | Acid-proof stainless |
| steel acc. to AISI 316, c | corrosivity | category C5M. |
| Colours | Colour | NCS-No. |
| | White | 0500 |
| | Grey | 5402-Y |
| | Light grey | 2502-Y |
| | Black | 9500 |
| | Brown | 9005-Y20R |
| | Red | 1090-Y90R |
| Operative data | | |
| Temperature range | –40°C to +80°C. | |

Installation: In operation:

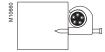
Standards and certificates

Temperature range

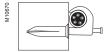
Standards and regulations Building and Planning (BBR)

- Building regulations issued by National Board of Housing,
- Nail of acid-proof stainless steel: AISI 316

Mounting instruction



Wood and compressed board: Nail in. Thick nails in brick joints.



Concrete, low-density materials, brick, etc: Use TCP clip plugs. Hammer the clip plug into low-density concrete without predrilling. Not for thick nails.



–20°C / +50°C

–40°C / +80°C

Plasterboard: Use TCP clip plugs. Make a hole in single plasterboard sheets with an awl. The start of a hole is sufficient in double plasterboard sheets.

| Ran | ge Round clips | | | | | | |
|------------------|----------------|--------------------------|---|---|--------------------|---|--|
| | | Туре | Colour | Dimensions Nail Ø/A/B (mm) | Qty per package | EAN code | Ref. No. |
| | Ø To A | Material: Clip | | allations of round cables, m ned and electroplated steel | | | |
| _ | | TC 2-3 | Olasa | 4 4/45/44 | 400 | 7045000004004 | 2004 000 |
| P79667 | I | TC 2-3 TC 3-5 | Clear | 1.4/15/11 | 100 | 7315882001001 | 2001 008 |
| | | TC 3-5 | Clear White Grey Black | 1.2/20/15 | 100 | 7315882011000 7315882011017 7315882011024 7315882011031 | 2011 005 2011 017 2011 021 2011 030 |
| | | TC 4-6 | | | | | |
| | | TC 4-6 | Clear White Grey | 1.4/20/14 | 100 | 7315882015107 7315882015114 7315882015121 | 2015 105 2015 110 2015 121 |
| | | TC 5-7 | | | | | |
| | | TC 5-7 | Clear White Grey Black Light grey | 1.2/20/12 | 100 | 7315882021009 7315882021016 7315882021023 7315882021047 7332418021227 | 2021 004 2021 012 2021 020 2021 046 2021 995 |
| | | TC 5-7 | Clear White Black Grey Light grey | 2.0/25/17 | 100 | 7315880032267 7315882022013 7315880030577 7315882022037 3606480376023 | 2022 009 2022 010 2022 029 2022 030 IMT49000 |
| | | TC 7-10 | g g. o, | | | 0000.000.0020 | |
| P79670 | | TC 7-10 | White Grey Light grey Black Brown | 1.6/25/16 | 100 | 7315882032012 7315882032029 7315882032036 7315882032043 7315882032104 | 2032 019 2032 027 2032 035 2032 043 2032 100 |
| | | TC 7-10 | White Light grey | 1.6/30/21 | 100 | 7315882033019 7315882033033 | 2033 017 2033 033 |
| | | TC 7-10 | White Black Red Brown Light grey | 2.0/25/16 | 100 | 7315880029014 7315880029113 7315880029137 7315882032098 3606480376030 | 2032 011 2032 041 2032 061 2032 091 IMT49001 |
| | | TC 8-12 | | | | | |
| P79656 | | TC 8-12 | White Light grey Black Grey Brown | 2.0/30/19 | 100 | 7315882041205 7315882041212 7315882041243 7315882041250 7315882041267 | 2041 200 2041 218 2041 240 2041 259 2041 267 |
| | | TC 8-12 | Light grey | 2.0/35/24 | 100 | 7315882041274 | 2041 274 |
| | | TC 8-12 TC 10-14 | White | 2.0/45/34 | 100 | 7315882041281 | 2041 283 |
| P79655 P79661 | | TC 10-14 | White Grey Light grey Black | 2.0/30/17 | 100 | 7315882042011 7315882042028 7315882042035 7315882042042 | 2042 018 2042 026 2042 034 2042 042 |
| | | TC 10-14 | White Light grey | 2.0/35/22 | 100 | 7315882043018 7315882043032 | 2043 016 2043 032 |
| | | TC 10-14 | White | 2.0/45/32 | 100 | 7315882045012 | 2045 012 |
| | | TC 10-14 | White Grey Black | 2.5/30/17 | 100 | 7315880029021 7315880029151 7315880029168 | 2042 011 2042 021 2042 041 |
| P79658 | L | TC 14-20 | White Grey Light grey | 2.0/35/18 | 100 | 7315882052010 7315882052027 7315882052034 | 2052 017 2052 025 2052 033 |
| | | TC 14-20 | Black White Light grey | 2.0/45/28 | 100 | 7315882052058 7315882053017 7315882053031 | 2052 058 2053 015 2053 031 |
| | | TC 14-20 | White Black Light grey | 2.5/35/18 | 100 | 7315880029038 7315880029212 3606480376047 | 2052 011 2052 051 IMT49002 |
| | | TC 18-22 TC 18-22 | White Light grey | 2.5/45/25 | 50 | 7315882060008 7315882060022 | 2060 002 2060 028 |
| | | TC 18-22 | Black Black | 2.5/55/35 | 50 | 7315882060138 7315882060145 | 2060 135 2060 143 |
| | | 10 10-22 | DIACK | 2.0100100 | 30 | 7313002000143 | 2000 143 |

| वार्ष | ge Round clips | | 0.1 | B' | | EAN | |
|-------|----------------|--|----------------------|---|-----------------------|--------------------------------|--------------------|
| | | Туре | Colour | Dimensions Nail Ø/A/B (mm) | Qty per package | EAN code | Ref. No |
| | O A | | | allations of round cables, ma ned and electroplated steel. | inly for indoor use. | | |
| | | TC 22-26 | | | | | |
| | T | TC 22-26 | White | 2.5/45/21 | 50 | 7315882070007 | 2070 00 |
| | | | Light grey | | | 7315882070021 | 2070 02 |
| | | | Black | | | 7315882070137 | 2070 1 |
| | | TC 22-26 | Black White | 2.5/55/31 | 50 | 7315882070144 7315882070205 | 2070 14 2070 20 |
| | | | Light grey | | | 7315882070205 | 2070 2 |
| | | Daynd alina in a | | man, CEM | | | |
| | | Plastic clip include for tough environ | ding nail, for insta | allations of round cables, for | indoor or outdoor us | se. Corrosivity category C5M | . Especially sui |
| | | | | proof stainless steel. | | | |
| | | TC-C5M 5-7 | Black | 1.2/20/12 | 100 | 7315882240035 | 2240 0 |
| | | TC-C5M 7-10 | White | 1.6/25/16 | 100 | 7315882240042 | 2240 0 |
| | | 10-03W17-10 | Black | 1.0/23/10 | 100 | 7315882240059 | 2240 0 |
| | | TC-C5M 8-12 | White | 2.0/30/19 | 100 | 7315882240066 | 2240 0 |
| | | TC-C5M 10-14 | White | 2.0/30/17 | 100 | 7315882240080 | 2240 0 |
| | _ | | Black | | | 7315882240097 | 2240 0 |
| | Ī | TC-C5M 14-20 | White | 2.0/35/18 | 100 | 7315882240103 | 2240 1 |
| | | | Black | | | 7315882240110 | 2240 1 |
| | | TC-C5M 14-20 | Light grey | 2.0/45/28 | 100 | 7332418016643 | 2240 1 |
| | | TC-C5M 18-22 | Grey | 2.5/45/25 | 50 | 7315882240158 | 2240 1 |
| | | TC-C5M 22-26 | Grey | 2.5/45/21 | 50 | 7315882240189 | 2240 1 |
| | | | | | | | |
| ηę | ge Flat clips | Plastic clip includ | ding nail, for inst | allations of flat cables, mainly | v for indoor use. | | |
| | | | | ardened and electroplated st | | | |
| | | TC 2x4 | | | | | |
| | T | TC 2x4 | Clear | 1.4/15/11 | 100 | 7315882101008 | 2101 0 |
| | | TC 3x5 | | | | | |
| | | TC 3x5 | Clear | 1.2/20/15 | 100 | 7315882106003 | 2106 0 |
| | | TC 4x6 | Olcai | 1.2/20/10 | 100 | 7010002100000 | 21000 |
| | | TC 4x6 | Clear | 1.4/20/14 | 100 | 7315882111007 | 2111 0 |
| | | TC 5x8 | Clear | 1.4/20/14 | 100 | 7313002111007 | 211100 |
| | | | \ | 0.0/05/40 | 400 | 7045000446006 | 0440.0 |
| | | TC 5x8 | White Grey | 2.0/25/18 | 100 | 7315882116026 7315882116019 | 2116 0 2116 0 |
| | | TC 6x10 | 0.0, | | | | 2 |
| | | TC 6x10 | White | 2.0/25/17 | 100 | 7315882126018 | 2126 0 |
| | II | 10 0 10 | Grey | 2.0/23/17 | 100 | 7315882126025 | 2126 0 |
| | | TC 7x14 | , | | | | |
| | | TC 7x14 | White | 2.0/25/16 | 100 | 7315880042075 | 2131 0 |
| | | TC 7x14 | White | 2.5/25/16 | 100 | 7315882131012 | 2131 0 |
| | | 107717 | Grey | 2.0/20/10 | 100 | 7315882131029 | 2131 0 |
| | | | Light grey | | | 7315882131036 | 2131 0 |
| | | TC 9x18 | | | | | |
| | | TC 9x18 | White | 2.0/30/18 | 100 | 7315880042082 | 2136 0 |
| | | TC 9x18 | White | 2.5/30/18 | 100 | 7315882136017 | 2136 0 |
| | | | Grey | | | 7315882136024 | 2136 0 |
| | | TC 11x22 | | | | | |
| | | TC 11x22 | White | 2.5/35/20 | 50 | 7315882137014 | 2137 0 |
| | | Flat clips in cor | | ry C5M | | | |
| | | • | , , | allations of flat cables, for ind | loor or outdoor use | Corrosivity category C5M F | specially suited |
| | | tough environme | ents. | , | | , | , , |
| | I | Material: Clip of I | PP, nail of harde | ned and Fe/Zn electroplated | | | |
| | | TC-C5M 6x9 | White | 1.6/25/17 | 100 | 7332418016650 | 2230 9 |
| | | Flat clips for two | o cables | | | | |
| | | • | | tallations of two flat cables, n | nainly for indoor use | | |
| | Ī | | | ardened and electroplated st | | | |
| | | TCD 5x8 | | | | | |
| | | TCD 5x8 | Grey | 2.5/25/18 | 100 | 7315882141028 | 2141 0 |
| | • | TCD 6x10 | J. J. | | .00 | . 5.5552111020 | 21710 |
| | | | | | | | |
| | | | | | | | |
| | | TCD 6x10 | Grey | 2.5/25/18 | 100 | 7315882146603 | 2146 0 |

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| Rang | e Round clips, b | ulk | | | | | |
|---------|--------------------|-------------------|-------------------------|--|----------------------|---|----------------------------------|
| | B | Туре | Colour | Dimensions Nail Ø/A/B (mm) | Qty per package | EAN code | Ref. No. |
| | Ø 1 A | | | allation of round cables in inc ned and electroplated steel. | door use. In bulk pa | ckage. | |
| P79667 | T | TC 3-5 | White Clear | 1.2/20/15 | 2000 5000 | 7315882201098 7315882011208 | 2201 090 2011 208 |
| | | TC 5-7 | | | | | |
| | | TC 5-7 | White Clear Black | 1.2/20/12 | 2500 2500 2500 | 7315882021085 7315882021702 7332418021159 | 2021 087 2021 706 2021 710 |
| | | TC 7-10 | | | | | |
| P79670 | Ī | TC 7-10 | White Black | 1.6/25/16 | 2500 2500 | 7315882032715 7332418021234 | 2032 712 2032 740 |
| | | TC 7-10 | White | 1.6/30/21 | 2000 | 7332418021166 | 2203 080 |
| | | TC 8-12 | | | | | |
| P79656 | T | TC 8-12 | White | 2.0/30/19 | 1000 | 7315882041700 | 2041 700 |
| P79 | | TC 10-14 | | | | | |
| | | TC 10-14 | Light grey White | 2.0/30/17 | 1250 1000 | 7315882042080 7315882042714 | 2042 083 2042 711 |
| | | TC 10-14 | White | 2.0/35/22 | 1000 | 7332418021180 | 2205 080 |
| P79655 | T | TC 10-14 | White | 2.0/45/32 | 1000 | 7332418021173 | 2205 070 |
| P7 | | TC 14-20 | | | | | |
| | | TC 14-20 | Light grey | 2.0/35/18 | 400 | 7315882052065 | 2052 066 |
| | | TC 14-20 | White | 2.0/35/18 | 500 | 7315882206093 | 2206 090 |
| | | TC 14-20 | White | 2.0/45/28 | 500 | 7332418021197 | 2206 080 |
| Rang | e Flat clips, bulk | | | | | | |
| | | Material: Clip of | | allation of flat cables in indoc irdened and electroplated st | | age. | |
| | | TC 2x4 | | | | | |
| P 79666 | Ī | TC 2x4 TC 3x5 | Clear | 1.4/15/11 | 5000 | 7315882101015 | 2101 015 |
| | | TC 3x5 | Clear | 1.2/20/15 | 5000 | 7315882106706 | 2106 706 |
| | | TC 3x5 | Bronze | 1.2/20/15 | 5000 | 7315882106720 | 2106 720 |
| | | TC 3x5 | Black | 1.2/20/15 | 5000 | 7332418021241 | 2106 994 |
| | | TC 3x5 | White | 1.2/20/15 | 5000 | 7332418021258 | 2106 995 |
| | | TC 4x6 | | | | | |
| | | TC 4x6 | Clear | 1.4/20/14 | 25000 | 7315882111014 | 2111 011 |
| P79657 | T | TC 5x8 | | | | | |
| P76 | - 1 | TC 5x8 | White | 2.0/25/18 | 30000 | 7315882116194 | 2116 192 |
| | | TC 6x10 | | | | | |
| | | TC 6x10 | White | 2.0/25/17 | 2000 | 7315882126711 | 2126 711 |
| | | package. | , | allation of flat cables in indocid-proof stainless steel. | or or outdoor use. E | specially suited for tough envi | ronments. In bulk |
| | | TC 6x9 | | | | | |
| | | TC-C5M 6x9 | White | 1.6/25/17 | 2000 | 7332418018364 | 2121 204 |

LSB02788_11-2013

Screw clips Thorsman TCS™

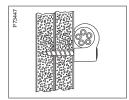




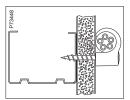
Application examples



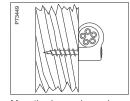
Mounting in single 13 mm plasterboard. Use plastic plug TP1 yellow.



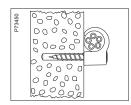
Mounting in double 13 mm plasterboard. The length of the screw of TCS-C3 14-18, 18-22 and 22-26 is adjusted so as not to pass through both boards, in order to facilitate the mounting of conduits from the inside of the wall.



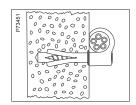
Mounting in a single 13 mm plasterboard with a metal bar behind, metal thickness 0.56 mm.



Mounting in wood, wood board materials, plywood.



Mounting in concrete and bricks. Drill a Ø 4 mm hole, approx. 30 mm deep. Drive the screw direct in the drilled hole.



Mounting in low-density concrete. Use plastic plug TP1 yellow. In low-density concrete of higher density than 600, no pre-drilling or plugs are needed.

Description

The screw fixing clips TCS-C3 and TCS-C5M can be used both for indoor and outdoor applications. TCS-C5M is the obvious choice in harsh environments.

Both TCS-C3 and TCS-C5M consist of a clip in impact-resistant polypropylene with high UV-resistance. C3 is provided with an electroplated steel screw, whereas C5M is provided with an acid-proof stainless steel screw.

The screw has a high pitch for quick installation and a sharp point, and the head is cross-slotted of either type Phillips 2 or of type T20. It penetrates directly into most materials. In concrete and bricks it only needs a 4 mm hole.

The C3 T20 screw is specially suited for high torque applications like hard wood and concrete.

Applications

The clip can be fitted without drilling in double and single plasterboard, wood, board materials and low-density concrete with high density. It is also suitable for hard materials like concrete or bricks.

Benefits

- · Type-approved
- · Corrosion-classified screws
- High UV-resistance
- Can withstand high impact together with extremes of heat, cold and acids. C5M suitable for extra harsh environments.
- Documented quality
- Pre-mounted screw with high pitch and Phillips PH2 or T20 head for quick and secure installation with with cordless driver
- Direct fixing in suitable materials without the use of wall plugs.
- Excellent function when installing cables or conduits on plasterboard with an underlying sheet steel frame
- Excellent function when installing rigid cables bent at small bending radii, for example around external corners.
- The screw length of TCS 14-18, 18-22 and 22-26 is adapted so as not to pass through a double 13 mm plasterboard (not C5M)
- · Wide range of clips in several colours
- · Flexible design one size fits multiple cable dimensions
- · Durable and recyclable packaging

Material data

| Material: Impact resistant, UV-stabilized PP (polypropylene) | | | |
|--|-------------------------------------|--|--|
| Colours: | White NCS S 0500-N | | |
| | Black NCS S 9000-N | | |
| | Grey NCS S 4502-Y | | |
| | Light grey NCS S 2502-Y | | |
| Material: | TCS-C3 Electroplated steel (Fe/Zn), | | |
| | sivity category C3 | | |
| | TCS-C5M Acid-proof | | |
| | sivity category C5M | | |
| | | | |
| Installation: | -20°C / +50°C | | |
| In operation: | –40°C / +80°C | | |
| | Colours: Material: Installation: | | |

Screw clips Thorsman TCS™

| | Туре | Colour | Dimensions A/B/Ø (mm) | Qty per package | EAN code | Ref. No. |
|-----------------|---|--------------------------------------|--------------------------|--------------------|--|--|
| L B | Screw C3 with PH head | d | , , | | | |
| -11- | Plastic clip with screw, in surface treatment acc. to Material: PP/Steel. | | | | ceilings, with or without wall ips 2. For round cables. | olug. Screw with |
| | TCS-C3 7-10 For 7-10 mm cables | White Light grey Grey | 32/23/5 | 100 | 7315880109945 7315880109938 7315882190002 | 2190 001 2190 003 2190 004 |
| | TCS-C3 8-12 For 8-12 mm cables | White Black Light grey Grey | 32/21/5 | 100 | 7332418015875 7332418015929 7332418015851 7332418015868 | 2190 013 2190 015 2190 005 2190 011 |
| | TCS-C3 10-14 For 10-14 mm cables | White Black Light grey Grey | 38/26/5 | 100 | 7315880109839 7315882190026 7315880109822 7315880109815 | 2190 02 ² 2190 02 ² 2190 02 ² 2190 02 ² |
| | TCS-C3 14-18 For 14-18 mm cables | White Black Light grey Grey | 38/23/5 | 100 | 7315880109860 7315882190033 7315880109853 7315880109846 | 2190 03 2190 03 2190 03 2190 03 |
| • | TCS-C3 18-22 For 18-22 mm cables | White Black Light grey Grey | 41/23/5 | 50 | 7315880109891 7315882190040 7315880109884 7315880109877 | 2190 04 2190 04 2190 04 2190 04 |
| | TCS-C3 22-26 For 22-26 mm cables | White Black Light grey Grey | 45/23/5 | 50 | 7315880109921 7315882190057 7315880109914 7315880109907 | 2190 05 2190 05 2190 05 2190 05 |
| | Screw C3 with T20 hea | | | | | |
| | Plastic clip with screw, in surface treatment acc. to Material: PP/Steel. | | | | ceilings, with or without wall For round cables. | olug. Screw with |
| () | TCS-X-C3 7-10 For 7-10 mm cables | White Light grey | 32/23/5 | 100 | 7332418019507 7332418019491 | 2191 00 2191 00 |
| | TCS-X-C3 8-12 For 8-12 mm cables | White Black Light grey | 32/21/5 | 100 | 7332418019538 7332418019514 7332418019521 | 2191 010 2191 010 2191 020 |
| | TCS-X-C3 10-14 For 10-14 mm cables | White Black Light grey | 38/26/5 | 100 | 7332418019392 7332418019378 7332418019385 | 2191 029 2191 030 2191 039 |
| | TCS-X-C3 14-18 For 14-18 mm cables | White Black Light grey | 38/23/5 | 100 | 7332418019422 7332418019408 7332418019415 | 2191 04 2191 04 2191 05 |
| | TCS-X-C3 18-22 For 18-22 mm cables | White Black Light grey | 41/23/5 | 50 | 7332418019453 7332418019439 7332418019446 | 2191 05 2191 06 2191 06 |
| | TCS-X-C3 22-26 For 22-26 mm cables | White Black Light grey | 45/23/5 | 50 | 7332418019484 7332418019460 7332418019477 | 2191 079 2191 079 2191 089 |
| | Screw C5M with PH he | 0 0 , | | | 7.002.7.00.70.77 | 2.0.00 |
| | | c. to corrosivity c | lass C5M and cross-s | | ceilings, with or without wall Phillips 2. For round cables. | |
| Ĩ | TCS-C5M 7-10 For 7-10 mm cables | White | 32/24/5 | 100 | 7332418020732 | 2191 509 |
| | TCS-C5M 8-12 For 8-12 mm cables | Light grey White | 32/21/5 | 100 | 7332418020688 7332418020749 | 2191 50 ₄ 2191 510 |
| Ī | TCS-C5M 10-14 For 10-14 mm cables | Black Light grey White | 32/21/5 | 100 | 7332418020640 7332418020695 7332418020756 | 2191 500 2191 500 2191 51 |
| ħ | TCS-C5M 14-18 For 14-18 mm cables | Black Light grey White | 41/26/5 | 100 | 7332418020657 7332418020701 7332418020763 | 2191 50 ² 2191 50 0 2191 512 |
| | TCS-C5M 18-22 For 18-22 mm cables | Black Light grey White | 41/23/5 | 50 | 7332418020664 7332418020718 7332418020770 | 2191 502 2191 503 2191 513 |
| | TCS-C5M 22-26 For 22-26 mm cables | Black Light grey | 41/20/5 | 50 | 7332418020671 7332418020725 | 2191 503 2191 508 |

Metal clamps & Mounting tools Thorsman KLEMMI™ TKK/APK

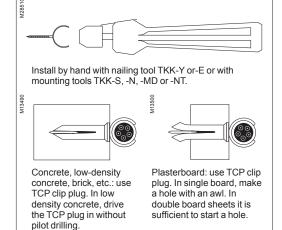








Installation



Description clamps

TKK/APK powder-coated metal clamps are intended for surface mounted installations of round and flat electric cables.

The powder coating provides very good resistance to corrosion and mechanical influence, and good resistance to heat and sunlight.

For some cable dimensions the clamp is available with various lengths of nail and with a thicker screw-nail.

The clamps are packed in cartons provided with a clear colour coding system.

Plugs of type TCP can be used together with the clamps.

- Excellent outdoor durability thanks to very good resistance to heat and sunlight
- Good resistance to corrosion and mechanical influence
- Flexible, thin material, powder coated in the colour of the cable, giving a very neat installation without projecting parts

Material data

| Strap | Steel SIS 1151 Z200, electroplated (Fe/Zn 10) |
|---------------------------|--|
| Surface | Powder coated with polyester varnish, layer thickness 120–160 μm |
| Colour | White NCS 0502-Y |
| Nail, screw | Steel SIS 1151 Z275, electroplated (Fe/Zn 7) |
| Plug | PEHD (polythene) |
| Operative data | |
| Temperature range | From -40° to +250°C |
| Suitable outdoors resist- | Yes. Excellent outdoor durability thanks to very good ance to heat and sunlight. |

Description tools

Mounting tools for Klemmi clamps TKK/APK.

Handles with exchangeable heads

- TKK-MD, ergonomic handle with optional adjustment of the angle of the head to the handle. Supplied with three exchangeable heads.
- TKK-N, simple straight handle providing easy accessibility where space is limited. Supplied with three exchangeable heads.

For both handles there are four easily exchangeable heads covering our whole range of TKK/APK clamps.

The head gives a very good control of the clamp. On the side of the head there is a clear marking to show which clamp size the head is intended for.

Handle for round clamps

TKK-S, the same handle as TKK-N but in black colour. Supplied with one mounting head for round cables.

Nailing tools

- TKK-E is a simple tool for the nailing of clamp sizes 6x9, 7–10 and 10–14. The narrow end of the tool is suitable for 6x9 and 7–10 and the thicker end for 10-14.
- TKK-Y has a clamp holder with spring action, shaped as pincers, and an adjustable mandrel. TKK-Y can handle all dimensions in the TKK/APK range.

Material data

| TKK-Y | Handle | Black PA6 (polyamide) with 30% glass-fibre | | | |
|------------------------|-------------|---|--|--|--|
| | Pincers | Black acetaldehyde resin (POM) | | | |
| | Impact mar | ndrel Hardened steel | | | |
| | Nut | Electroplated brass | | | |
| TKK-E | Material | PA6 (polyamide) | | | |
| | Colour | Red NCS 2080 R | | | |
| TKK-N, -MD, -NT and -S | Handle | PA, glass-fibre reinforced | | | |
| | Head | Die-cast zinc | | | |
| | Mandrels, s | springs and sleeves Steel | | | |
| | Colour | Blue NCS 6040-R80B (TKK-N, -MD, | | | |
| -NT) | | Black (TKK-S) | | | |

Metal clamps & Mounting tools Thorsman KLEMMI™ TKK/APK

| | lamps | Туре | Nail ØxL | Dimensions A/B (mm) | Qty per package | EAN code | Ref. No. |
|---|--------|---|---------------------------------------|--|-----------------|--|-----------------|
| | | Clamps for indoor and outd | | ons of round and flat electric | | | |
| | | Material: Powder coated, e Colour: White. | lectroplated s | heet steel. | | | |
| | | Clamps for round cables | | | | | |
| | -6 | TKK/APK 4-6 18 | 1.6x18 | 6/7 | 100 | 7315882366100 | 2366 10 |
| | | TKK/APK 5-7 18 | 1.6x18 | 7.5/7 | 100 | 7315882366209 | 2366 20 |
| | _ | TKK/APK 5-7 25 | 1.6x25 | 7.5/7 | 100 | 7315882366230 | 2366 23 |
| | | TKK/APK 7-10 18 | 2.1x18 | 10/8 | 100 | 7315882367015 | 2367 01 |
| | | TKK/APK 7-10 18 bulk | 2.1x18 | 10/8 | 5000 | 7315880061588 | 2367 02 |
| | | TKK/APK 7-10 25 | 2.1x25 | 10/8 | 100 | 7315882369019 | 2369 0 |
| | | TKK/APK 7-10 25 bulk | 2.1x25 | 10/8 | 5000 | 7315882369002 | 2369 00 |
| | | TKK/APK 7-10 screw 25 | 2.7x25 | 10/8 | 100 | 7315882375010 | 2375 0 |
| | | TKK/APK 7-10 40 | 2.1x40 | 10/8 | 100 | 7315882369026 | 2369 02 |
| | | TKK/APK 8-12 18 | 2.1x18 | 11/9 | 100 | 7315882369200 | 2369 20 |
| 9 | | TKK/APK 8-12 25 | 2.1x25 | 11/9 | 100 | 7315882369231 | 2369 23 |
| | | TKK/APK 8-12 40 | 2.1x40 | 11/9 | 100 | 7315882369262 | 2369 26 |
| | | TKK/APK 8-12 screw 25 | 2.7x25 | 11/9 | 100 | 7315882369316 | 2369 3 |
| | | TKK/APK 10-14 25 | 2.1x25 | 13/10 | 100 | 7315882371012 | 2371 0 |
| | | TKK/APK 10-14 25 TKK/APK 10-14 screw 25 | 2.7x25 | 13/10 | 100 | 7315882377014 | 2377 0 |
| - | | TKK/APK 10-14 Sciew 25 | 2.7x25 2.1x40 | 13/10 | 50 | 7315880101574 | 2371 0 |
| | | INNAFN 10-14 40 | 4.114U | 13/10 | 50 | 7313000101374 | 23110 |
| | | TKK/APK 14-20 25 | 2.1x25 | 17/12 | 50 | 7315882373016 | 2373 0 |
| | | TKK/APK 14-20 screw 25 | 2.7x25 | 17/12 | 50 | 7315882379018 | 2379 0 |
| | | TKK/APK 14-20 40 | 2.1x40 | 17/12 | 50 | 7315882373023 | 2373 0 |
| | | | | | | | 20.00 |
| | | Clamps for flat cables | | | | | |
| | | TKK/APK 6x9 18 | 2.1x18 | 9/8 | 100 | 7315882380007 | 2380 0 |
| 4 | | TKK/APK 6x9 18 bulk | 2.1x18 | 9/8 | 5000 | 7315882380014 | 2380 0 |
| | | TKK/APK 6x9 25 | 2.1x25 | 9/8 | 100 | 7315882380052 | 2380 0 |
| | | TKK/APK 6x9 25 bulk | 2.1x25 | 9/8 | 5000 | 7315882380069 | 2380 0 |
| | | TKK/APK 6x9 screw 25 | 2.7x25 | 9/8 | 100 | 7315882380113 | 2380 1 |
| _ | -6 | TKK/APK 6x12 25 | 2.1x25 | 10/10 | 100 | 7315882380151 | 2380 1 |
| | ools | | | | | | |
| | J 0.10 | Туре | Colour | Dimensions A | Qty per | EAN code | Ref. No |
| | | Mounting tools | | A/B/C (mm) | package | | |
| | | Mounting tool kit including I TKK-S includes one head fi handle. TKK-NT is supplied Material: PA, die-cast zinc, | or the clamp of without mounts steel. | dimensions 7-10, 8-12, 10-1 nting heads. | 4 and 14-20. | include three exchangeable The head of TKK-MD can b | e angled to the |
| 4 | | TKK-N | Blue | 30/27/135 | 1 | 7315882360030 | 2360 03 |
| | | TKK-S | Black | 30/27/135 | 1 | 7315880084808 | 2360 0 |
| | | TKK-MD | Blue | 68/30/165 | 1 | 7315880052555 | 2360 03 |
| | - | | | | | | |
| | | | | | | | |

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Metal clamps & Mounting tools Thorsman KLEMMI™ TKK/APK

| Туре | Colour | Dimensions A/B/C (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
|---|------------------|------------------------------|------------------|-----------------------|--------------------|----------|
| Exchangeable heads | | | | | | |
| Exchangeable head for Material: Die-cast zind | | ools, suitable for TKK-N, Tk | (K-MD and va | rious sizes of clamps | , see below. | |
| TKK-SH1 For TKK/APK 4-6 | _ | 14/10/50 | 1 | 7315880052562 | 10001062 | 2360 04 |
| TKK-SH2 For TKK/APK 7-10, 6x | 9 | 16/13/52 | 1 | 7315880052579 | 10001063 | 2360 04 |
| TKK-SH3 For TKK/APK 10-14, 6 | x12 | 18/15/52 | 1 | 7315880052586 | 10001064 | 2360 04 |
| TKK-SH4 For TKK/APK 5-7, 8-1: 14-20 | <u> </u> | 20/16/52 | 1 | 7315880052593 | 10001065 | 2360 04 |
| Nailing tools | | | | | | |
| Tool with spring-action Material: PA6, POM, s | | l adjustable mandrel. Suital | ble for all dime | ensions in the TKK/AF | PK range. | |
| TKK-Y | Black | Ø28/—/140 | 1 | 7315882360009 | 10001057 | 2360 00 |
| Simple tool for nailing Material: PA6. | of TKK/APK clamp | os. Suitable for TKK/APK 7- | -10, 10-14 an | d 6x9. | | |
| TKKE | Red | 12/13/66 | 1000 | 7315880036203 | 10001058 | 2360 02 |

Metal clamps Thorsman FASTIS™ TFK









Description

The metal clamp range FASTIS TFK is intended for use when fixing cables and conduits.

The clamp has a bent part to hold the cable/conduit and one or two integrated nails to fix it.

TFK clamps are available with white plastic-coating or in electroplated steel, in the latter case only in the bigger sizes Ø16 and Ø20 mm. The plastic-coated clamps are in corrosivity category C4, whereas the electroplated steel clamps are in category C2.

The one-nailed clamps need specially adapted mounting tools to hold the clamp and the cable in position when driving the clamp in, the two-nailed clamps only need a hammer.

Applications

The clamps are suitable for stationary installations of cables and conduits in wood or wood-based materials, indoors as well as outdoors. Typical are visible installations in houses and flats. The long-nailed clamps are used when nailing through board materials and thin panels into the underlying wooden framework.

The one-nail clamps are mainly to be used in corners and transitions between floor and wall, wall and ceiling, wall and wall, and on skirting-boards. The clamps with two nails are used on walls and ceilings without support from a corner. In solid wood material, only clamps with short nails should be used.

The clamps are mainly intended for cables of EKRK type for the Swedish market, and of PR type for the Norwegian market. The two-nail clamp sizes 16 and 20 mm are specially suited for flexible or rigid conduits, often in concealed installations.

Benefits

- · Neat and slim installations.
- Impact-resistant polyamide (Rilsan®) plastic-coating.
- White plastic-coating well suited to the colour of the cable.
- Plastic-coated clamps in corrosivity category C4.
- Electroplated steel clamps in corrosivity category C2.

Standards and regulations

- · Corrosivity category C2 in accordance with ISO 4042.
- · Corrosivity category C4 in accordance with SS-EN ISO 12944-2.

Certificates

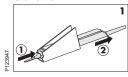
| C4 classified clamps | SITAC ¹⁾ Technical Approval of corrosion protection, |
|----------------------|---|
| No. | 0035/04 |

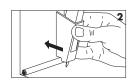
 $^{^{\}mbox{\tiny 1)}}\mbox{Swedish Institute}$ for Technical Approval in Construction

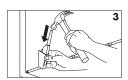
Material and Operative data

| Clamp | Material | Hardened steel | | |
|------------------------|--------------------|--|--|--|
| | Surface treatment: | Plastic-coating MaxiCoat Rilsan® PA11 | | |
| | Colour | White | | |
| Clamp Ø16 and 20 steel | Material | Hardened and electroplated | | |
| Mounting tool | Material | PP and electroplated steel | | |
| Temperature range | From -40°C to +150 | From -40°C to +150°C | | |
| | | | | |

Installation







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Range Clamps, plastic-coated



| Туре | Colour | Dimensions A/B/C (mm) | Qty per package | EAN code | Ref. No. |
|------|--------|--------------------------|--------------------|----------|----------|
| | | | | | |

Clamp with one nail for round cables

Clamp with one nail, intended for use in stationary installations of round cables. Mounted with mounting tool TFK-F1 (TFK-C4 8-9) or TFK-F2 (TFK-C4 10-11) and a hammer. The steel clamp is plastic-coated for corrosion resistance and impact protection. In solid wood, use only clamps with 16 mm nail. Corrosivity category C4.

Material: Hardened steel, plastic-coated.



| TFK-C4 8-9 16 mm nail | White | 25/16/3 | 100 | 7332418016834 | 2150 010 |
|-----------------------------------|-------|-----------|-----|---------------|----------|
| TFK-C4 8-9 25 mm nail | White | 34/25/3.5 | 100 | 7332418016841 | 2150 015 |
| TFK-C4 10-11 16 mm nail | White | 27/16/3 | 100 | 7332418016728 | 2150 020 |
| TFK-C4 10-11 25 mm nail | White | 36/25/3.5 | 100 | 7332418016735 | 2150 025 |

Clamp with two nails for round cables

Clamp with two nails, intended for use in stationary installations of round cables. Mounted with a hammer. The steel clamp is plastic-coated for corrosion resistance and impact protection. Corrosivity category C4.

Material: Hardened steel, plastic-coated.

| Material. Haracrica | Material: Hardened Steel, plastic codica. | | | | | |
|-----------------------------------|---|---------|-----|---------------|----------|--|
| TFK-C4 8-9 16 mm nail | White | 26/16/3 | 100 | 7332418016827 | 2150 030 | |
| TFK-C4 10-11 16 mm nail | White | 27/16/3 | 100 | 7332418016711 | 2150 035 | |

Clamp with one nail for flat cables

Clamp with one nail, intended for use in stationary installations of flat cables. Mounted with mounting tool TFK-F3 and a hammer. The steel clamp is plastic-coated for corrosion resistance and impact protection. In solid wood, use only the clamp with 16 mm nail. Corrosivity category C4.

Material: Hardened steel, plastic-coated.

| TFK-C4 6x9/10 16 mm nail | White | 23/16/3 | 100 | 7332418016803 | 2150 085 |
|------------------------------------|-------|-----------|-----|---------------|----------|
| TFK-C4 6x9/10 25 mm nail | White | 32/25/3.5 | 100 | 7332418016810 | 2150 090 |

Clamp with two nails for flat cables

Clamp with two nails, intended for use in stationary installations of flat cables. Mounted with a hammer. The steel clamp is plastic-coated for corrosion resistance and impact protection. Corrosivity category C4.

| Material: Hardened steel, plastic-coated. | | | | | | |
|---|-------|---------|-----|---------------|----------|--|
| TFK-C4 6x9 16 mm nail | White | 23/16/3 | 100 | 7332418016797 | 2150 095 | |
| TEK-C4 6v10 | White | 23/16/3 | 100 | 7332418016780 | 2150 110 | |

16 mm nail Mounting too

Mounting tool marked with one groove, for TFK-C4 8-9 clamps with one nail for round cables. A strong magnet holds the clamp in a steady position. To be used together with a hammer.

Material: PP/Electroplated steel.

| TFK-F1 | Green/black | 120/18/36 | 1 | 7332418021203 | |
|--------|-------------|-----------|---|---------------|--|
| | | | | | |

Mounting tool marked with two grooves, for TFK-C4 10-11 clamps with one nail for round cables. A strong magnet holds the clamp in a steady position. To be used together with a hammer.

Material: PP/Electroplated steel.

| TFK-F2 | Green/bright | 120/18/36 | 1 | 7332418021210 | 2150 127 |
|--------|--------------|-----------|---|---------------|----------|
| | | | | | |



Mounting tool marked with three grooves, for TFK-C4 6x9/10 clamps with one nail for flat cables. A strong magnet holds the clamp in a steady position. To be used together with a hammer.

Material: PP/Electroplated steel.

TFK-F3 Green/black 120/18/36 1 7332418021579 2150 128

Range Clamps, electroplated

Clamp with two nails for round cables or conduits

P126907 P126908



Clamp with two nails, intended for use in stationary installations of round cables or conduits. Mounted with a hammer. The steel clamp is electroplated. In solid wood, use only the clamps with 16 mm and 20 mm nails. Corrosivity category C2. Material: Hardened steel, electroplated.

| TFK 16 16 mm nail | _ | 33/16/3 | 50 | 7332418016865 | 2150 060 |
|----------------------|---|---------|----|---------------|----------|
| TFK 16 25 mm nail | _ | 42/25/3 | 50 | 7332418016872 | 2150 065 |
| TFK 20 20 mm nail | _ | 41/20/3 | 50 | 7332418016889 | 2150 070 |
| TFK 20 28 mm nail | _ | 49/28/3 | 50 | 7332418016896 | 2150 075 |

2150 126

Plastic clamps Thorsman TK



Description

Plastic clamps for round and flat cables/conduits.

Applications

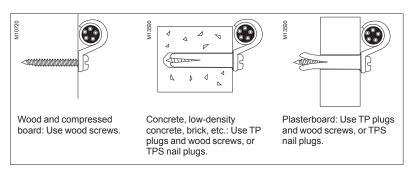
Installations in wood is done by using wood screw. For installations in concrete, brick, plasterboard, etc., use TP plugs and wood screws, or TPS nail plugs.

Benefits

- Flexible each size can be used for several cable/conduit sizes
- · Can withstand high impact, together with extremes of heat, cold and acid
- Broad range

Material data

| Material | Impact resistant polypropylene (PP) | | |
|-------------------|-------------------------------------|--|--|
| Temperature range | From -40° to +80°C | | |



| Technical data | | | | | | |
|--------------------|--------------------|-----------------------|-----------|--|--|--|
| Type Cable Ø mm | Required screw No. | Suitable plug Plug | Nail plug | | | |
| TK 3-5 | 6 | TP0, TP1, TP2 | TPS-4 | | | |
| TK 5-7 | 6 | TP0, TP1, TP2 | TPS-4 | | | |
| TK 7-10 | 6 | TP0, TP1, TP2 | TPS-4 | | | |
| TK 10-14 | 6-8 | TP0, TP1, TP2 | TPS-4 | | | |
| TK 14-20 | 8-10 | TP0, TP1, TP2 | TPS-5 | | | |
| TK 20-26 | 8-10 | TP0, TP1, TP2 | TPS-5 | | | |
| TK 6x9 | 6 | TP0, TP1, TP2 | TPS-4 | | | |

| ange | | | | | | | |
|------|--|----------|------------------------|--|--------------------|--------------------------------|--------------------|
| | | Туре | Colour | Dimensions A/B/C (mm) | Qty per package | EAN code | Ref. No. |
| | | | terboard, etc., use TI | conduits. Installation in wo P plugs and wood screws, o | | using wood screws. For insugs. | tallations in |
| | | TK 3-5 | White | 6/15/9 | 100 | 7315882300012 | 2300 010 |
| | | TK 5-7 | White | 8/18/9 | 100 | 7315882301019 | 2301 01 |
| | | TK 7-10 | White Grey | 11/20/9 | 100 | 7315882302016 7315882302023 | 2302 01 2302 02 |
| | | TK 10-14 | White Grey | 14/27/13 | 100 | 7315882303013 7315882303020 | 2303 01 2303 02 |
| | | TK 14-20 | White Grey | 19/35/14 | 100 | 7315882304010 7315882304027 | 2304 01 2304 02 |
| | | TK 20-26 | White | 25/47/15 | 50 | 7315882305017 | 2305 01 |
| | | TK 6x9 | White | 19.5/9/7 | 100 | 7315882310103 | 2310 10 |

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Adjustable plastic clamps Thorsman TSK and PFSK



Description

Adjustable plastic clamps for banks of electric cables.

Applications

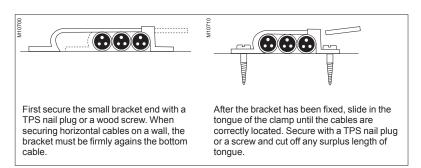
Intended to secure banks of electric cables. Installations in wood is done by using wood screws. For installations in concrete, brick, plasterboard, etc., use TP plugs and wood screws, or TPS nail plugs.

Benefits

- Flexible each size can be used for several cables of the same size
- One clamp can take 2-5 parallel cables
- · Quick and easy to install
- · Can withstand high impact, together with extremes of heat, cold and acid

Material data

| Material | TSK: | Polypropylene (PP) |
|-------------------|--------------------|----------------------------|
| | PFSK: | Polyamide (PA) |
| | Nail: | Hardened zinc plated steel |
| Temperature range | From -40° to +80°C | |



| Technical data | | | | | | | | |
|--------------------|---------------|--------------------|-----------------------|-----------|--|--|--|--|
| Type Cable Ø mm | No. of cables | Required screw No. | Suitable plug Plug | Nail plug | | | | |
| TSK 7-10 | 2-5 | 6 | TP0, TP1, TP2 | TPS-4 | | | | |
| TSK 10-14 | 2-5 | 6-8 | TP0, TP1, TP2 | TPS-5 | | | | |
| TSK 14-20 | 2-5 | 8-10 | TP0, TP1, TP2 | TPS-5 | | | | |
| PFSK 10-14 | 2-5 | _ | TCP0 | _ | | | | |

| Range | | | | | | | |
|-------|---|--|-----------|-------------------------------|-----------------|-------------------------|----------|
| | | Туре | Colour | Dimensions A/B/C (mm) | Qty per package | EAN code | Ref. No. |
| | | Clamp for screw ins | tallation | | | | |
| | | Adjustable plastic clar Material: PP(polypro | | ure banks of electric cables. | For screw m | nounting. | |
| | | TSK 7-10 | White | 10/11/65 | 100 | 7315882330019 | 2330 017 |
| | | TSK 10-14 | White | 14/16/85 | 50 | 7315882332013 | 2332 013 |
| | | TSK 14-20 | White | 17/20/120 | 50 | 7315882334017 | 2334 019 |
| | | Clamp for nail instal | lation | | | | |
| | , | Adjustable plastic clar Material: PA(polyami | | ure banks of electric cables | For nail mou | unting, including nail. | |
| | | PFSK 10-14 | White | 16/31/72 | 50 | 7315882333430 | 2333 433 |
| | | | | | | | |

Cable wingsThorsman Cable wing





Description

The Cable Wing fixing clip can be used both for indoor and outdoor applications.

The Cable Wing is available both as a single clip for cable installation on one side only and as a double clip for cable/conduit installation on both

Both types are made of polyamide with high UV-resistance and durability. The Cable Wing is either provided with a nail-plug for quick installation in concrete/brick or is supplied without plug if for example a screw installation is preferred.

Benefits

- Fast installation with a hammer when using the nail plug
- Installs directly in suitable materials. In concrete and brick it is recommended to use a nail-plug.
- Nail plug installation means that the Cable Wing can be adjusted or even removed and re-used
- High UV-resistance
- · Halogen-free
- Can withstand high impact together with extremes of heat and cold
- Documented quality
- $\bullet\,$ Can be installed before adding cables, i.e. cables can easily be fixed or removed after installation of the clip
- Flexible design one size fits multiple cable/conduit dimensions
- · Recyclable packaging

Technical and Material data

| Material | Cable wing, nail plug: Screw nail: | PA (polyamide) Steel with electro-plated zinc sur- |
|-------------------|---------------------------------------|--|
| face | 00.011.11 | treatment |
| Cable capacity | Maximum diameter 12 | mm. |
| | | Maximum capacity 6 cables per |
| side. | | |
| Colour | Dark grey | |
| Temperature range | From -20 to + 60°C | |
| Recommended load | 30 N | |

| | Туре | Colour | Dimensions A/B/C (mm) | Qty per package | EAN code | Ref. No. |
|--|--|---------------------|-------------------------------|--------------------|-------------------------------|----------|
| | Cable wing, double | | | | | |
| | Cable wing, double. Inc Material: PA. | lended for cable/co | onduit installation on both s | sides. Availab | le with or without nail-plug. | |
| | With nail-plug | Dark grey | 23/20/230 | 25 | 3606480217227 | IMT39080 |
| | Without nail-plug | Dark grey | 23/20/230 | 10 | 3606480217210 | IMT39079 |
| | Cable wing, single | | | | | |
| | Cable wing, single. Inde | ended for cable ins | tallation on one side. Avail | able with or w | vithout nail plug. | |
| | With nail-plug | Dark grey | 20/20/130 | 25 | 3606480217203 | IMT39078 |
| | Without nail-plug | Dark grey | 20/20/130 | 10 | 3606480217197 | IMT39077 |

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Stainless steel clamps

Thorsman TKS





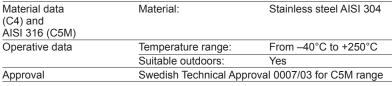
The TKS range includes screw clamps intended for use in installations of cables and pipes/conduits. The range is available either in stainless steel in corrosivity category C4, or in acid-proof stainless steel in category C5M (a selected range). The products in the C5M range are marked TKS.

The screw clamp is available in four different designs:

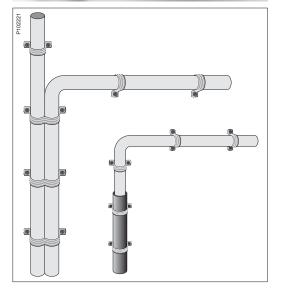
- TKS-ER with two fixing holes, for mounting of one pipe or cable, both C4
- TKS-DR with two fixing holes, for mounting of two parallel cables or pipes of the same diameter, both C4 and C5M.
- TKS-KR with one fixing hole, for mounting of one pipe or cable, both C4 and C5M.
- TKS-MR with one fixing hole, for mounting of one pipe or cable, only C4. Made of extra thick material.

- · Long lasting installations
- · Broad range
- · Not influenced by UV light
- Clamps with two mounting holes for heavy installations
- C5M range for harsh environments
- Type approval for C5M range

Material and Operative data







Stainless steel clamps Thorsman TKS

| inge, category C4 | Туре | Dimensions A/B/C (mm) | Qty per package | EAN code | Ref. No. |
|-------------------|--|---|--|---|---|
| | Screw clamps for on | e cable, two fixing holes | | | |
| | Steel clamp, single, fo Material: Stainless ste | r installation of one pipe or cable. el. | With two oval 8x | 5 mm fixing holes. Corrosivity ca | itegory C4. |
| | TKS-ER 16 | 16/47/15 | 100 | 7315882390402 | 2390 400 |
| | TKS-ER 20 | 20/58/15 | 100 | 7315880108092 | 2390 405 |
| | TKS-ER 22 | 22/58/15 | 100 | 7315882390419 | 2390 410 |
| | TKS-ER 25 | 25/64/15 | 100 | 7315880107941 | 2390 415 |
| | TKS-ER 30 | 30/69/15 | 100 | 7315882390426 | 2390 420 |
| | TKS-ER 32 | 32/73/15 | 50 | 7315880107958 | 2390 425 |
| | TKS-ER 40 | 40/76/15 | 50 | 7315882390433 | 2390 430 |
| | TKS-ER 50 | 50/85/15 | 50 | 7315880107965 | 2390 435 |
| | Screw clamps for on | e cable, one fixing hole | | | |
| - | Steel clamp, single, fo Material: Stainless ste | r installation of one pipe or cable. del. | With one 8x5 mr | n oval fixing hole. Corrosivity cat | egory C4. |
| 3 | TKS-KR 8 | 8/25/12 | 100 | 7315882390501 | 2390 500 |
| | TKS-KR 9 | 9/26/12 | 100 | 7315880107989 | 2390 505 |
| | TKS-KR 10 | 10/26/15 | 100 | 7315882390518 | 2390 510 |
| | TKS-KR 11 | 11/28/15 | 100 | 7315880107996 | 2390 515 |
| | TKS-KR 12 | 12/30/15 | 100 | 7315882390525 | 2390 520 |
| | TKS-KR 14 | 14/31/15 | 100 | 7315880108009 | 2390 525 |
| | TKS-KR 16 | 16/34/15 | 100 | 7315882390532 | 2390 530 |
| | TKS-KR 18 | 18/36/15 | 100 | 7315880108016 | 2390 535 |
| | TKS-KR 20 | 20/39/15 | 100 | 7315882390549 | 2390 540 |
| | TKS-KR 6x9 | 6/26/15 | 100 | 7315880108023 | 2390 545 |
| | TKS-KR 6x10 | 6/22/15 | 100 | 7315882390556 | 2390 550 |
| | | r installation of one pipe or cable. is. Corrosivity category C4. el. | With one Ø 7 mr | n fixing hole. Made of extra thick | material, suitable for |
| | TKS-MR 6 | 6/23/15 | 100 | 7315882390594 | 2390 595 |
| | TKS-MR 7 | 7/23/15 | 100 | 7315882390600 | 2390 600 |
| | TKS-MR 8 | 8/25/12 | 100 | 7315880108030 | 2390 605 |
| | TKS-MR 9 | 9/25/12 | 100 | 7315882390617 | 2390 610 |
| | TKS-MR 10 | 10/27/15 | 100 | 7315880108047 | 2390 615 |
| | TKS-MR 11 | 11/28/15 | 100 | 7315882390624 | 2390 620 |
| | TKS-MR 12 | 12/29/15 | 100 | 7315880108054 | 2390 625 |
| | TKS-MR 13 | 13/30/15 | 100 | 7315882390631 | 2390 630 |
| | TKS-MR 14 | 14/31/15 | 100 | 7315880108061 | 2390 635 |
| | | | | 7245002200640 | |
| | TKS-MR 16 | 16/33/15 | 100 | 7315882390648 | 2390 640 |
| | TKS-MR 16 TKS-MR 18 | 16/33/15 18/36/15 | 100 | 7315880108078 | |
| | | | | | 2390 645 |
| | TKS-MR 18 | 18/36/15 | 100 | 7315880108078 | 2390 645 2390 650 |
| | TKS-MR 18 TKS-MR 20 | 18/36/15 20/38/15 | 100 100 | 7315880108078 7315882390655 | |
| | TKS-MR 18 TKS-MR 20 TKS-MR 22 TKS-MR 24 Screw clamps for two | 18/36/15 20/38/15 22/39/15 24/44/20 o cables or installation of two parallel pipes 4. | 100 100 100 100 | 7315880108078 7315882390655 7315880108085 7315882390662 | 2390 645 2390 650 2390 655 2390 660 |
| | TKS-MR 18 TKS-MR 20 TKS-MR 22 TKS-MR 24 Screw clamps for two | 18/36/15 20/38/15 22/39/15 24/44/20 o cables or installation of two parallel pipes 4. | 100 100 100 100 | 7315880108078 7315882390655 7315880108085 7315882390662 | 2390 645 2390 650 2390 655 2390 660 55 mm fixing holes. |
| | TKS-MR 18 TKS-MR 20 TKS-MR 22 TKS-MR 24 Screw clamps for two Steel clamp, double, for Corrosivity category C Material: Stainless steel | 18/36/15 20/38/15 22/39/15 24/44/20 or cables or installation of two parallel pipes 4. el. | 100 100 100 100 or cables of the | 7315880108078 7315882390655 7315880108085 7315882390662 same diameter. With two oval 8x | 2390 655 2390 660 |
| | TKS-MR 18 TKS-MR 20 TKS-MR 22 TKS-MR 24 Screw clamps for two Steel clamp, double, for Corrosivity category C Material: Stainless steel TKS-DR 10 | 18/36/15 20/38/15 22/39/15 24/44/20 or cables or installation of two parallel pipes 4. el. 10/51/15 | 100 100 100 100 or cables of the | 7315880108078 7315882390655 7315880108085 7315882390662 same diameter. With two oval 8x | 2390 645 2390 650 2390 655 2390 660 55 mm fixing holes. |



Stainless steel clampsThorsman TKS

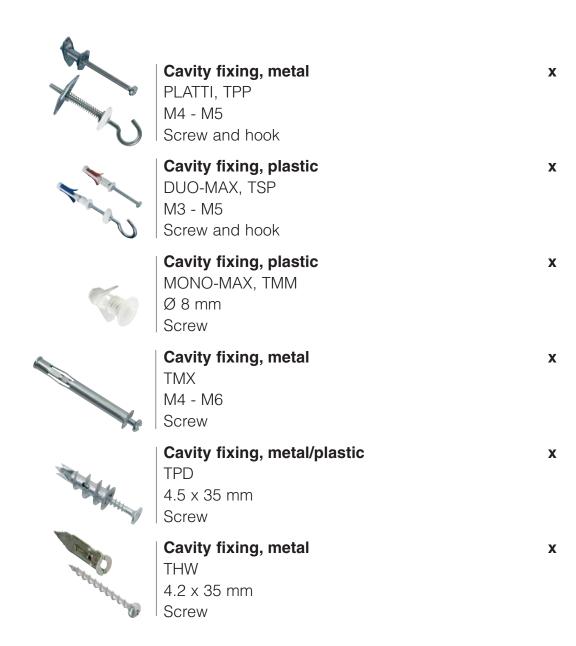
| Rar | nge, category C5M | | | | | |
|---------|-------------------|---|---|--------------------|---|--------------|
| | | Туре | Dimensions A/B/C (mm) | Qty per package | EAN code | Ref. No. |
| | | Screw clamps for one | cable, two fixing holes | | | |
| P102712 | 100 | Steel clamp, single, for i Corrosivity category C5l Material: Stainless steel | М. | With two oval 8x | 45 mm fixing holes. Suitable for marine applications. | oplications. |
| | | TKS-ER-C5M 16 | 16/47/15 | 100 | 7332418018944 | 2390 401 |
| | | TKS-ER-C5M 20 | 20/58/15 | 100 | 7332418018951 | 2390 406 |
| | | TKS-ER-C5M 25 | 25/64/15 | 50 | 7332418018968 | 2390 416 |
| | | TKS-ER-C5M 32 | 32/73/15 | 50 | 7332418018975 | 2390 426 |
| | | Screw clamps for one | cable, one fixing hole | | | |
| P101913 | - | Steel clamp, single, for i Corrosivity category C5l Material: Stainless steel | М. | With one 8x5 m | m oval fixing hole. Suitable for marine ap | plications. |
| | | TKS-KR-C5M 9 | 9/26/12 | 100 | 7332418019026 | 2390 570 |
| | | TKS-KR-C5M 10 | 10/26/15 | 100 | 7332418018982 | 2390 511 |
| | | TKS-KR-C5M 12 | 12/30/15 | 100 | 7332418018999 | 2390 521 |
| | | TKS-KR-C5M 16 | 16/34/15 | 100 | 7332418019002 | 2390 531 |
| | | TKS-KR-C5M 20 | 20/39/15 | 100 | 7332418019019 | 2390 541 |
| | | Screw clamps for two | cables | | | |
| P102713 | 1 8 0 | | ications. Corrosivity category C | | same diameter. With two oval 8x5 mm fi | xing holes. |
| | | TKS-DR-C5M 10 | 10/51/15 | 100 | 7332418018913 | 2390 476 |
| | | TKS-DR-C5M 12 | 12/53/15 | 100 | 7332418018920 | 2390 481 |
| | | TKS-DR-C5M 16 | 16/64/15 | 100 | 7332418018937 | 2390 486 |
| | | Installation screw | | | | |
| P81316 | 8 | most materials — metal | studwork, cabinets, wood, plug ications. Corrosivity category C | s. Fastened with | eep-pitch thread. Fully threaded. Works Phillips screw-driver or power driver. | in & |
| | _ | TSC-C5M | 4.2x25 | 100 | 7315883782268 | 3782 260 |
| | | | 4.2x32 | 100 | 7315880115137 | 3782 265 |

Clips and clamps

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58 | Thorsman 11.2013 | Installation Material Schneider

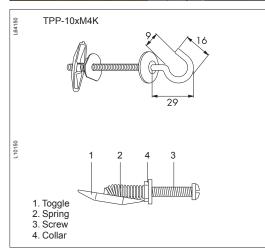


Schneider Installation Material | 11.2013 Thorsman | 59

Cavity fixing Thorsman PLATTI™ TPP







Description

PLATTI TPP is a cavity fixing consisting of a toggle and a collar, united by a spring and a screw or hook.

Application

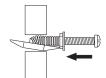
For installations in board materials ranging from a thickness of 10 to 35 mm. Also suitable for ceiling installations.

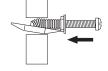
Benefits

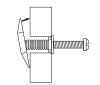
- Captive fixing
- No special tool needed for the installation
- Large metal toggle withstands humidity, heat and heavy loads
- · Suitable for ceiling installations
- High load values
- Fire-resistant
- Easy to remove cut off the spring

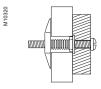
Material data

| Material | Toggle, collar | Zinc | |
|----------|----------------|-------|---------------------|
| | Screw, hook | | Electroplated steel |
| | Spring | Steel | |









Drill a hole in accordance with the table below. Fix the toggle in the collar and push the cavity fixing in with the aid of the screw

Push the screw until the springloaded bar flips over.

Remove the screw and mount the fixture

| Screw size | Drill Ø mm | Board thickness | | | | |
|---------------|----------------|---|--|--|--|---|
| | | mm | 13 mm | 2x13 mm | 13 mm | 2x13 mm |
| M4x55 | 10 | 10-30 | 37 mm | 24 mm | 400/160 | 600/220 |
| M4x50 | 10 | 10-26 | _ | _ | — /160 | — /220 |
| M5x65 | 13 | 10-35 | 47 mm | 34 mm | 500/170 | 800/340 |
| | M4x55 M4x50 | size mm M4x55 10 M4x50 10 | size mm thickness mm M4x55 10 10-30 M4x50 10 10-26 | size mm thickness mm for board 13 mm M4x55 10 10-30 37 mm M4x50 10 10-26 — | size mm thickness mm for board thickness 13 mm 2x13 mm M4x55 10 10-30 37 mm 24 mm M4x50 10 10-26 — — | size mm thickness mm for board thickness 13 mm shear/pull-or 13 mm M4x55 10 10-30 37 mm 24 mm 400/160 M4x50 10 10-26 — — -/ 160 |

^{*} Safety factor 2.5 for shear and 3 for pull-out load.

Cavity fixing Thorsman PLATTI™ TPP

| | Туре | Screw size | Qty per package | EAN code | Ref. No. |
|---|--------------------|-------------------------------------|----------------------|--------------------------------------|---------------------------|
| | Cavity fixing with | screw | | | |
| _ | used in 10-26 mm | | | r mounting in walls and ceilings mad | de of board material. Can |
| 9 | TPP-10xM4S | Screw M4 x 55 | 25 | 7315881200009 | 1200 005 |
| | TPP-13xM5S | Screw M5 x 60 | 25 | 7315881200405 | 1200 401 |
| | Cavity fixing with | n hook | | | |
| | used in 10-26 mm | | | mounting in walls and ceilings mad | e of board material. Can |
| | TPP-10xM4K | Hook M4 x 50 | 25 | 7315881200207 | 1200 203 |
| | Cavity fixing with | n screw, bulk | | | |
| | Like the above wit | h screw but in bulk pack | age. | | |
| - | TPP-10xM4S | Screw M4 x 55 | 1500 | 7315881200023 | 1200 023 |
| | TPP-13xM5S | Screw M5 x 60 | 1000 | 7315881200412 | 1200 412 |
| | Cavity fixing with | n hook, bulk | | | |
| | Like the above wit | h hook but in bulk packa | age. | | |
| + | TPP-10xM4K | Hook M4 x 50 | 1000 | 7315881200221 | 1200 221 |
| 1 | | | | | |
| ' | Cavity fixing, bul | k | | | |
| | , ,, | k t without screw or hook | and in bulk package. | | |

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Cavity fixing Thorsman DUO-MAX™ TSP





DUO-MAX TSP is a plastic cavity fixing for high load values. TSP is provided with a pre-assembled screw or hook.

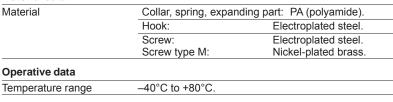
Application

For installations in board materials ranging from a thickness of 3 to 35 mm.TSP of type M has a nickel-plated brass screw for installations in for instance wet rooms.

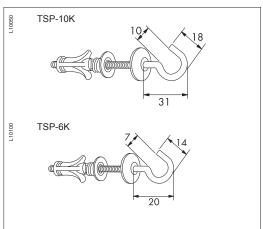
Benefits

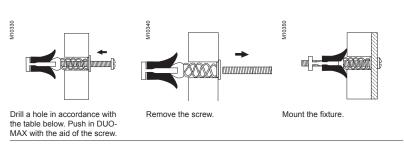
- Captive fixing
- · No special tool needed for the installation
- Pre-assembled screw or hook
- Ready-to-mount very fast installation
- · High load values
- Corrosion resistant
- Easy to remove cut off the spring











| Technical of | Fechnical data | | | | | | | | | | | | |
|--------------|----------------|------------|---------------|--------------------|--------------------------|-------------------------|--------------|-----------------------|-----------------|-------|--|--|--|
| Туре | Screw size | Screw size | Drill Ø mm | Board thickness | Max. fixture board thick | e thickness in kness | Practical le | oacing capacity, leet | N* 2x13 mm s | sheet | | | |
| | | | mm | 13 mm | 2x13 mm | Shear | Pull-out | Shear | Pull-out | | | | |
| TSP-6/50 | M3x50 | 6 | 3-26 | 20 mm | 7 mm | 180 | 70 | 240 | 90 | | | | |
| TSP-6K | M3x40 | 6 | 3-20 | _ | _ | 180 | 70 | _ | _ | | | | |
| TSP-10/50 | M5x50 | 10 | 3-20 | 12 mm | _ | 250 | 75 | _ | _ | | | | |
| TSP-10/65 | M5x65 | 10 | 3-35 | 25 mm | 12 mm | 250 | 75 | 400 | 150 | | | | |
| TSP-10/75 | M5x75 | 10 | 3-40 | 37 mm | 24 mm | 250 | 75 | 400 | 150 | | | | |
| TSP-10/75M | M5x75 | 10 | 3-38 | 34 mm | 21 mm | 250 | 75 | 400 | 150 | | | | |
| TSP-10K | M5x60 | 10 | 3-28 | _ | _ | 250 | 75 | 400 | 150 | | | | |

^{*} Safety factor 4.5 for shear and 6 for pull-out load.

Cavity fixing Thorsman DUO-MAX™ TSP

| | Туре | Colour | Dimensions B A/B (mm) | Qty per package | EAN code | Ref. No. |
|---|--|---|--|--------------------------|--|--|
| | Cavity fixing v | with screw | | | | |
| | plasterboard a | nd in other board m | , with screw. Installed without spaterials. Type M in stainless materials. Type M with the M with the M with the stainless may be steel. Type M with the M with the steel with the M with the M with the steel with the steel. | aterial (nickel-pl | ated brass) for instance for w | |
| _ | TSP-6/50 | Red/white | 52/11 | 25 | 7315881240005 | 1240 00 |
| | TSP-10/50 | Blue/white | 54/20 | 25 | 7315881244003 | 1244 00 |
| | TSP-10/65 | Blue/white | 68/20 | 25 | 7315881248001 | 1248 00 |
| | TSP-10/75 TSP-10/75M | Blue/white | 77/20 | 25 | 7315881249008 7315881250004 | 1249 00 1250 00 |
| | Cavity fixing v | with hook | | | | |
| | plasterboard a | nd in other board n | | ecial tools. To b | e used for installations in one | or several layers |
| 7 | plasterboard a | nd in other board n | | ecial tools. To b | e used for installations in one 7315881241002 | |
| | plasterboard a Material: PA (p | nd in other board n olyamide). Hook of | naterials. f electroplated steel. | | | 1241 00 |
| 7 | plasterboard a Material: PA (p TSP-6K TSP-10K | nd in other board n olyamide). Hook of Red/white | naterials. f electroplated steel. 60/11 | 25 | 7315881241002 | 1241 00 |
| | plasterboard a Material: PA (p TSP-6K TSP-10K Cavity fixing v Like the above | nd in other board n olyamide). Hook of Red/white Blue/white | naterials. f electroplated steel. 60/11 93/20 | 25 | 7315881241002 | 1241 00 |
| _ | plasterboard a Material: PA (p TSP-6K TSP-10K Cavity fixing v Like the above | nd in other board n olyamide). Hook of Red/white Blue/white with screw, bulk | naterials. f electroplated steel. 60/11 93/20 | 25 | 7315881241002 | 1241 00 1253 00 |
| | plasterboard a Material: PA (p TSP-6K TSP-10K Cavity fixing v Like the above | nd in other board n olyamide). Hook of Red/white Blue/white with screw, bulk but in bulk packag | naterials. f electroplated steel. 60/11 93/20 e. | 25 25 | 7315881241002 7315881253005 | 1241 00 1253 00 1240 70 1244 70 |
| | plasterboard a Material: PA (p TSP-6K TSP-10K Cavity fixing v Like the above | nd in other board nolyamide). Hook of Red/white Blue/white with screw, bulk but in bulk packag | naterials. f electroplated steel. 60/11 93/20 e. 52/11 | 25 25 6000 | 7315881241002 7315881253005 7315881240708 | 1241 00 1253 00 1240 70 1244 70 |
| | plasterboard a Material: PA (p TSP-6K TSP-10K Cavity fixing V Like the above TSP-6/50 TSP-10/50 TSP-10/75 | nd in other board nolyamide). Hook of Red/white Blue/white with screw, bulk but in bulk packag Red/white Blue/white | naterials. f electroplated steel. 60/11 93/20 e. 52/11 54/20 | 25 25 6000 2500 | 7315881241002 7315881253005 7315881240708 7315881244706 | 1241 00 1253 00 1240 70 1244 70 |
| | plasterboard a Material: PA (p TSP-6K TSP-10K Cavity fixing v Like the above TSP-6/50 TSP-10/50 TSP-10/75 Cavity fixing v | nd in other board nolyamide). Hook of Red/white Blue/white with screw, bulk but in bulk packag Red/white Blue/white Blue/white Blue/white | naterials. f electroplated steel. 60/11 93/20 e. 52/11 54/20 77/20 | 25 25 6000 2500 | 7315881241002 7315881253005 7315881240708 7315881244706 | 1241 00 1253 00 1240 70 |

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Cavity fixing Thorsman MONO-MAX™ TMM





Description

MONO-MAX TMM is a plastic cavity fixing for lightweight installations in plasterboard. Supplied without screw.

Application

For installations in board materials ranging from 3 to 26 mm thickness.

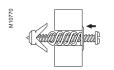
Benefits

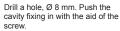
- · Captive without screw
- No special tool needed for the installation
- Requires only 15 mm of cavity space behind the board
- Small drill hole 8 mm
- Easy to remove cut off the spring

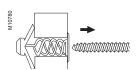
Material data

| Material | PA (polyamide) | |
|-------------------|-----------------|--|
| Operative data | | |
| Temperature range | –40°C to +80°C. | |

Mounting instruction







When the wings are gripping, remove the screw.



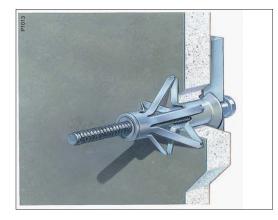
Mount the fixture.

| Туре | Rec. wood screw | Drill Ø mm | Board thickness, mm | Max. fixture thickness | Practical loading capacity, shear/pull-out load, N* |
|----------|--------------------|---------------|------------------------|----------------------------|---|
| TMM-8x26 | No. 8 | 8 | 3-26 | Determined by screw length | 200/60 |

^{*} Safety factor 4.5 for shear and 6 for pull-out load.

| Range | | | | | | | |
|---------|-------|------------------------------------|---------------|---------------------------|--------------------|---------------|----------|
| | | Туре | Colour | Dim. mm | Qty per package | EAN code | Ref. No. |
| | | Cavity fixing | without screw | | | | |
| P125429 | 0.000 | Cavity fixing w Material: PA (p | | htweight installations in | board materials. | | |
| | | TMM-8x26 | White | 26/13/16 | 100 | 7315881206025 | 1206 028 |

Cavity fixing Thorsman TMX



Description

TMX steel cavity fixing is intended for heavy loads. It is expanded with the aid of the installation tool or simply by tightening the screw with a screw-driver.

Application

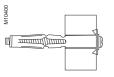
For installations in various types of board up to a thickness of 44 mm, like plaster, plywood and particle boards, but also for board materials like plastic, sheet metal and laminate.

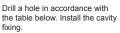
Benefits

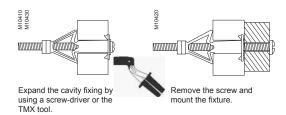
- Captive fixing stays fixed even when the screw is not tightened
- · Anti-rotation design
- Pre-assembled screw
- High load values
- Fire-resistant

Material data

| Material cavity fixing | Expanding part: | Electroplated sheet metal |
|------------------------|--------------------|---------------------------|
| | Screw: | Electroplated steel |
| Material mounting tool | Steel and plastic. | |
| Operative data | | |
| Temperature range | -40°C to +80°C. | |







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| Туре | Screw | Screw | Screw length | Drill Ø mm | Board thickness | Max fixture thickness | Practical loa | ding capacity, N* |
|--------|-------|-------|-----------------|---------------|--------------------|-----------------------|---------------|-------------------|
| | | mm | | Min-max mm | mm | Shear load | Pull-out load | |
| TMX-4E | M4 | 40 | 8 | 5-15 | 18 | 200 | 140 | |
| TMX-4D | M4 | 50 | 8 | 16-26 | 18 | 400 | 160 | |
| TMX-5E | M5 | 57 | 10 | 6-13 | 24 | 400 | 160 | |
| TMX-5D | M5 | 70 | 10 | 12-32 | 20 | 600 | 200 | |
| TMX-6E | M6 | 57 | 12 | 3-16 | 25 | 450 | 180 | |
| TMX-6D | M6 | 70 | 12 | 12-32 | 20 | 700 | 280 | |

^{*} Safety factor 2.5 for shear and 3 for pull-out load.

| | | Туре | Screw | Dimensions Ø/L (mm) | Qty per package | EAN code | Ref. No. |
|--------|-------|-----------------------------------|---|--------------------------|----------------------|---------------|----------|
| | | Cavity fixing | with screw | | | | |
| | | | ncluding fully thre troplated steel. | aded screw with combi-he | ead and Phillips cro | ss-slot. | |
| | | TMX-4E | M4 | 14/47 | 100 | 7315881260027 | 1260 025 |
| 6 | | TMX-4D | M4 | 14/62 | 50 | 7315881260065 | 1260 066 |
| - | | TMX-5E | M5 | 16/62 | 50 | 7315881260102 | 1260 108 |
| 1 | | TMX-5D | M5 | 16/74 | 50 | 7315881260126 | 1260 124 |
| e a se | 10000 | TMX-6E | M6 | 18/62 | 50 | 7315881260140 | 1260 140 |
| C. | | TMX-6D | M6 | 18/74 | 50 | 7315881260164 | 1260 165 |
| | | Installation t | ool | | | | |
| | | Installation to Material: Stee | ol for cavity fixing el, plastic. | TMX. | | | |
| | | TMX-T | _ | 100/250/32 | 1 | 7315881265046 | 1265 040 |

Cavity fixing Thorsman TPD





Description

TPD self-drilling cavity fixing is intended for lightweight installations in plasterboard.

Application

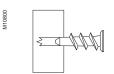
For installations in plasterboard from a thickness of 9 mm, independent of the insulation behind. Not suitable for ceiling installations.

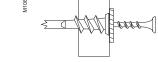
Benefits

- Self-drilling preferably installed with a cordless screwdriver Pozidriv (PZ) 2 without pre-drilling
- Wood screw 4.5x35 with 8 mm head and cross-slot Pozidriv 2 (TPD-Metal)
- For plasterboards from a thickness of 9 mm, including multiple sheet thicknesses (TPD-Metal)
- Fire resistant (TPD-Metal)
- Screw with high pitch, easy and fast (TPD-Metal)

Material data

| Material | TPD-Met | tal Zinc | | | | |
|-------------------|----------|--|--|--|--|--|
| | TPD-Nyle | TPD-Nylon PA (polyamide), glass fibre reinforced | | | | |
| | Screw | Electroplated steel (TPD-Metal) | | | | |
| Operative data | | | | | | |
| Temperature range | −40°C to | -40°C to +80°C. | | | | |





Screw the TPD into the plaster-

Mount the fixture by screwing the screw into the TPD.

| Туре | Screw size mm | Board thickness mm | Max. fixture thickness mm | Practical loading capacity, shear/pull-out load in 13 mm board, N* |
|-----------|------------------|--------------------------|---------------------------|--|
| TPD-Metal | 4.5x35 | min. 9 | 26 | 270/80 |
| TPD-Nylon | 4.5x35 | min. 9 | 12 | 190/50 |

^{*} Safety factor 2.5 for shear and 3 for pull-out load (TPD-Metal). Safety factor 4.5 for shear and 6 for pull-out load (TPD-Nylon).

| Rang | е | | | | | | | | | | |
|---------|-------------|--------------------|---|--------|----------------|--------------------|--------------------------------|----------------------|--|--|--|
| | | Туре | Screw size | Colour | Dim. Ø/L mm | Qty per package | EAN code | Ref. No. | | | |
| | | Cavity fixing, zir | nc | | | | | | | | |
| P89047 | A32 | | Cavity fixing for lightweight installations in plasterboard, including wood screw with cross-slot Pozidriv 2. Material: Zinc. Electroplated steel screw. | | | | | | | | |
| | O-mumm | TPD-Metal | 4.5x35 | _ | 13/37 | 100 25 | 7315880114291 7315881220120 | 1220 104 1220 120 | | | |
| | | Cavity fixing, PA | \ | | | | | | | | |
| P131450 | 3 No. | | ghtweight installation vamide), glass fibre | | | | s-slot. | | | | |
| | - Committee | TPD-Nylon | _ | White | 13/37 | 100 | 7315881220014 | 1220 010 | | | |
| | | | | | | | | | | | |

Cavity fixing Thorsman THW





Description THW

THW metal cavity fixing including screw is excellent for installations in plasterboard materials. The shape of THW prevents it from rotating. No pre-drilling needed, just hammer in.

Application

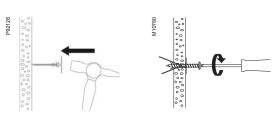
For lightweight installations in board materials ranging from 6 to 13 mm thickness, excellent for porous and thin materials.

Benefits

- No pre-drilling needed
- Screw with sharp point, Phillips PH2
- Fire-resistant
- · Easy to remove
- · Leaves a very small hole in plasterboard when removed

Material data

| Material steel | Cavity fixing | Yellow-chromated | | |
|-------------------|-----------------|---------------------|--|--|
| | Screw | Electroplated steel | | |
| Operative data | | | | |
| Temperature range | –40°C to +80°C. | | | |



Hammer the cavity fixing in place. No pre-drilling needed.

Mount the fixture with the included Phillips PH2 screw (cross-recessed).

Technical data

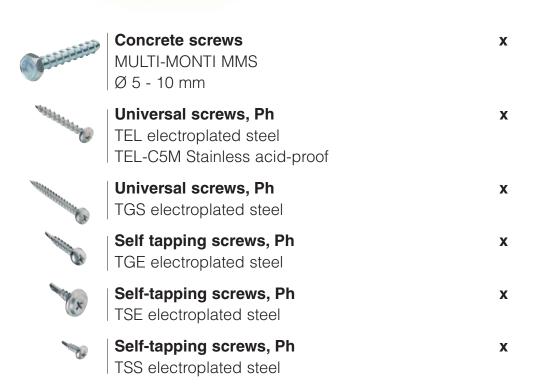
| Туре | Screw | Board thickness mm | Max. fixture thickness mm | Practical loading capacity, shear/pull-out, N* |
|------------|--------|--------------------------|---------------------------|--|
| THW 4.2x38 | 4.2x38 | 6-13 | 16 | 100/100 |

^{*} Safety factor 2.5 for shear and 3 for pull-out load.

| Rang | ge | | | | | | | |
|--------|------------|------------------|---------------------------------------|--------|----------|--------------------|------------------------------------|----------|
| | | Туре | Screw size | Colour | Dim. mm | Qty per package | EAN code | Ref. No. |
| | | Cavity fixing in | cluding screw | | | | | |
| P91678 | P91678 | | luding screw. The yellow-chromated | | | | e-drilling needed, just hammer in. | |
| | Open China | THW 4.2x38 | 4.2x38 | _ | 10/30/12 | 50 | 7315881260171 | 1260 170 |

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68 | Thorsman 11.2013 | Installation Material Schneider

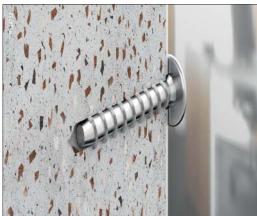
| | Self-tapping collar screws, Hex/Ph TSB electroplated steel | X |
|--|--|---|
| | Collar screws, Hex/Ph TST electroplated steel | X |
| | Installation screws, Ph TSC electroplated steel TSC-C5M Stainless acid-proof | X |
| Shapping . | Installation screws, Ph TSF electroplated steel | X |
| The same of the sa | Installation screws, Ph TSI electroplated steel | X |
| a contraction of the contraction | Installation screws, Ph TMP-C3 electroplated steel | X |
| The state of the s | Installation scres with cup washer, Ph TFT-IS electroplated steel | X |
| | Metric screws, Ph MRX electroplated steel | X |
| | Through bolts TEX M6 - M12 | X |
| | Wedge brass anchors TMA M6 - M10 | X |
| | Wedge steel anchors TSA M6 - M12 | X |
| | Universal anchors SEVENHOOK, SVH Ø 8 mm drill | X |

Schneider Installation Material | 11.2013 Thorsman | 69

Concrete screws

Thorsman MULTI-MONTI MMS





Description

The Thorsman range of concrete screws includes hardened steel screws for direct installation in hammer drilled holes in solid, hard materials like concrete and solid bricks. The concrete screws can be used in indoor or outdoor applications.

For outdoor applications, electroplated Protect 4 screws (C4) are specially suitable. Acid-proof stainless steel screws (C5M) are available for extreme environments.

The range also includes a mounting tool for the eye screw, magnetic socket drivers for hexagon head screws and a screw bit T30.

Application

Suitable for assembly of wall trunking and cable ladder brackets in concrete and solid bricks. Used directly without plastic plug.

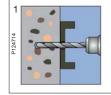
Renefits

- · Low stress induction allows installation close to concrete or brick edge.
- Captive fixing.
- · Corrosion resistant.
- · Fast installation.
- Removable.
- · Different head types for different applications.

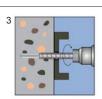
Technical and material data

| Material | Hardened steel, electroplated. Also available in Protect 4 C4 and acid-proof stainless steel C5M. |
|-----------|---|
| Standards | ETA 05/0010, ETA 05/0011, DIBt no. Z-21.1-1503. |

Installation

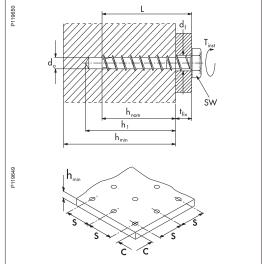








Technical information



| MMS-P 5x30 | | 30 | 1 | T25 | 6 | 35 | 4 | 30 | 8 |
|--------------------------------|-------------------------|----|----|-----|----|----|---|----|----|
| MMS-P 5x50 | | 50 | 15 | T25 | 6 | 40 | 4 | 35 | 8 |
| MMS-P 6x30 | <i>□</i> | 30 | 1 | T30 | 7 | 35 | 5 | 30 | 12 |
| MMS-P 7.5x45 ¹⁾ | | 45 | 1 | 13 | 9 | 55 | 6 | 45 | 20 |
| MMS-MS 7.5x45 ¹⁾ | | 45 | 1 | 13 | 9 | 55 | 6 | 45 | 20 |
| MMS-S 6x40 | | 40 | 5 | 10 | 7 | 45 | 5 | 35 | 12 |
| MMS-S 6x50 ¹⁾ | | 50 | 5 | 10 | 7 | 55 | 5 | 45 | 12 |
| MMS-S 6x60 ¹⁾ | | 60 | 15 | 10 | 7 | 55 | 5 | 45 | 12 |
| MMS-S 7.5x35 |] ○ □ | 35 | 1 | 13 | 9 | 40 | 6 | 35 | 20 |
| MMS-S 7.5x40 | | 40 | 5 | 13 | 9 | 45 | 6 | 35 | 20 |
| MMS-S 7.5x50 ¹⁾ | | 50 | 5 | 13 | 9 | 55 | 6 | 45 | 20 |
| MMS-S 10x60 ¹⁾ | | 60 | 5 | 16 | 12 | 65 | 8 | 55 | 50 |
| MMS-S 7.5x50/65 ³⁾ | | 50 | 5 | 13 | 9 | 70 | 6 | 45 | 20 |
| MMS-S 10x70/85 ²⁾³⁾ | OB | 70 | 5 | 16 | 12 | 75 | 8 | 65 | 50 |
| MMS-MF 6x40 | | 40 | 5 | 10 | 7 | 45 | 5 | 35 | 12 |
| MMS-MF 6x50 ¹⁾ | | 50 | 5 | 10 | 7 | 55 | 5 | 45 | 12 |
| MMS-MF 6x60 ¹⁾ | | 60 | 15 | 10 | 7 | 55 | 5 | 45 | 12 |
| MMS-MF 7.5x50 ¹⁾ | | 50 | 5 | 13 | 9 | 55 | 6 | 45 | 20 |
| MMS-MF 7.5x70 ²⁾ | | 70 | 5 | 13 | 9 | 75 | 6 | 65 | 20 |
| MMS-R 6x40 | ⊕ <u></u> | 40 | 5 | - | 7 | 50 | 5 | 40 | 12 |
| MMS-I 7.5x60 ²⁾ | | 60 | 5 | 13 | 9 | 65 | 6 | 55 | 20 |

- DIBt Zulassung Nr. Z-21.1-1503
- ETA 05/0010
- 3) Acid-proof stainless steel A4

Concrete screws Thorsman MULTI-MONTI MMS

| | | _ | · | <u> </u> | | | | | | |
|--|--|--|--|---|---|---|--|--|--|--|
| | | Туре | Dimensions Øxlength (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. | | | |
| | | With pan head | | 1 | | | | | | |
| | | Concrete screw with pan | head. Recess T-20, T-3 | 0 or T-40. Suitable | for concrete and solid b | rick materials. Mo | ounting with cordle | | | |
| | Control of the last of the las | screwdriver or wrench. Material: Steel, electroplated. | | | | | | | | |
| | | MMS-P | 5x30 | 200 | 3606480214509 | 20062416 | IMT38040 | | | |
| | | Recess T-20 | | | | | | | | |
| | | MMS-P | 5x50 | 200 | 3606480214516 | 20062417 | IMT38041 | | | |
| | | Recess T-20 MMS-P | 6x30 | 100 | 3606480214431 | 20062409 | IMT38033 | | | |
| | | Recess T-30 | 0.00 | 100 | 3000400214431 | 20002409 | 101136033 | | | |
| | | MMS-P Recess T-40 | 7.5x45 | 100 | 3606480214448 | 20062410 | IMT38034 | | | |
| | | With flange head | | | | | | | | |
| | (management) | Concrete screw with flang | ge head 17 mm. Recess | T-30. Suitable for | concrete and solid brick | materials. Mount | ing with cordless | | | |
| | Parameter 1 | screwdriver or wrench. Material: Steel, electropla | ited. | | | | | | | |
| | | MMS-MS | 7.5x45 | 50 | 3606480214479 | 20062413 | IMT38037 | | | |
| | | With hovement to and | | | | | | | | |
| | -425 | With hexagon head Concrete screw with hexa | agon head. Suitable for | concrete and solid | brick materials Mountin | na with cordless s | crewdriver or | | | |
| | Carried and an interior | wrench. | agon neau. Guilable IOI | CONTRICTE AND SUND | whore materials. Midufilli | ig with COIDIESS S | orewallyel Ul | | | |
| | | Material: Steel, electropla | | | | | | | | |
| | | MMS-S Wrench width 13 mm | 7.5x35 | 100 | 3606480214370 | 20062403 | IMT38027 | | | |
| | | MMS-S | 10x60 | 50 | 3606480214400 | 20062406 | IMT38030 | | | |
| | | Wrench width 16 mm | | | 1111100 | | | | | |
| | | With hexagon head, was | sher enclosed | | | | | | | |
| | Giron. | Concrete screw with hexa | agon head. Washer 7x1 | 6x1.5 enclosed. W | rench width 10 mm. Sui | table for concrete | and solid brick | | | |
| | Constitution of the second | materials. Mounting with | cordless screwdriver or | | | | | | | |
| | | Material: Steel, electropla | | 100 | 0000400044505 | 00000110 | INTERNAL | | | |
| | | MMS-S MMS-S | 6x40 6x50 | 100 | 3606480214523 3606480214486 | 20062418 | IMT38042 IMT38038 | | | |
| | | IVIIVIO-O | 0,000 | 100 | JUUU40UZ 14400 | 20002414 | 11111 30030 | | | |
| | | MMS-S | 6x60 | 100 | 3606480214493 | 20062415 | IMT38039 | | | |
| | | MMS-S | 6x60 | 100 | 3606480214493 | 20062415 | IMT38039 | | | |
| | | Concrete screw with hexa | agon head. Washer 8x1 | 9x1.5 enclosed. W | | | | | | |
| | O THE PROPERTY OF THE PARTY OF | Concrete screw with hexa materials. Mounting with | agon head. Washer 8x1 cordless screwdriver or | 9x1.5 enclosed. W | | | | | | |
| | Carrie and the same of the sam | Concrete screw with hexa | agon head. Washer 8x1 cordless screwdriver or | 9x1.5 enclosed. W | | | | | | |
| | Carried State of the State of t | Concrete screw with hexa materials. Mounting with Material: Steel, electropla | agon head. Washer 8x1 cordless screwdriver or ated. | 9x1.5 enclosed. W wrench. | rench width 13 mm. Sui | able for concrete | and solid brick | | | |
| | Control of the last of the las | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S | agon head. Washer 8x1 cordless screwdriver or ated. 7.5x40 | 9x1.5 enclosed. W wrench. | rench width 13 mm. Sui | table for concrete | and solid brick | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S | agon head. Washer 8x1 cordless screwdriver or ited. 7.5x40 7.5x50 | 9x1.5 enclosed. W wrench. 100 50 | rench width 13 mm. Sui 3606480214387 3606480214394 | 20062404 20062405 | and solid brick IMT38028 IMT38029 | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid | 9x1.5 enclosed. W wrench. 100 50 | rench width 13 mm. Sui 3606480214387 3606480214394 | 20062404 20062405 | and solid brick IMT38028 IMT38029 | | | |
| | Caralle de la companya de la company | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. | 9x1.5 enclosed. W wrench. 100 50 | rench width 13 mm. Sui 3606480214387 3606480214394 | 20062404 20062405 | and solid brick IMT38028 IMT38029 Dounting with cordle | | | |
| | Control of the second | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. Ca | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. | 9x1.5 enclosed. W wrench. 100 50 | rench width 13 mm. Sui 3606480214387 3606480214394 | 20062404 20062405 | and solid brick IMT38028 IMT38029 | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C Material: Steel, electropla MMS-S | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable | 3606480214387 3606480214394 for concrete and solid b | 20062404 20062405 rick materials. Mo | and solid brick IMT38028 IMT38029 bunting with cordle | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C Material: Steel, electropla MMS-S With hexagon head, C5 | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable | 3606480214387 3606480214394 for concrete and solid b 3606480214530 | 20062404 20062405 rick materials. Mo 20062419 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C Material: Steel, electropla MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. C | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable | 3606480214387 3606480214394 for concrete and solid b 3606480214530 | 20062404 20062405 rick materials. Mo 20062419 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. Condition of the MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. Condition of the MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. Conditional Stainless steel A | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AlSI316, phosphated ste | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). | 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b | 20062404 20062405 rick materials. Mo 20062419 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C Material: Steel, electropla MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. C | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable | 3606480214387 3606480214394 for concrete and solid b 3606480214530 | 20062404 20062405 rick materials. Mo 20062419 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. Condition of the MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. Condition of the MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. Conditional Stainless steel A | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AISI316, phosphated ste 10x70/85 | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). | 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b | 20062404 20062405 rick materials. Mo 20062419 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl | | | |
| | Control of the last of the las | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C Material: Steel, electropla MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. C Material: Stainless steel A MMS-S With hexagon head, was concrete screw with hexagon head, was concr | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AISI316, phosphated ste 10x70/85 sher enclosed, C5M agon head. Washer 8.5 | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). 25 | 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b 3606480214424 | 20062404 20062405 rick materials. Mo 20062419 rick materials. Mo | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl IMT38032 | | | |
| | Control of the last of the las | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S Mith hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C. Material: Steel, electropla MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S With hexagon head, wa. Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AISI316, phosphated ste 10x70/85 sher enclosed, C5M agon head. Washer 8.5: cordless screwdriver or | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). 25 | 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b 3606480214424 | 20062404 20062405 rick materials. Mo 20062419 rick materials. Mo | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl IMT38032 | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S Mith hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C. Material: Steel, electropla MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S With hexagon head, wa. Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AISI316, phosphated ste 10x70/85 sher enclosed, C5M agon head. Washer 8.5: cordless screwdriver or AISI316, phosphated ste | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). 25 x24x2 enclosed. W wrench. Corrosivitel (function tip). | rench width 13 mm. Suit 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b 3606480214424 rench width 13 mm. Suit y class C5M. | 20062404 20062405 rick materials. Mo 20062419 rick materials. Mo 20062408 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl IMT38032 and solid brick | | | |
| | Control of the last of the las | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S Mith hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C. Material: Steel, electropla MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S With hexagon head, wa. Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AISI316, phosphated ste 10x70/85 sher enclosed, C5M agon head. Washer 8.5: cordless screwdriver or | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). 25 | 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b 3606480214424 | 20062404 20062405 rick materials. Mo 20062419 rick materials. Mo | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl IMT38032 | | | |
| | Control of the last of the las | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S Mith hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C. Material: Steel, electropla MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S With hexagon head, wa. Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S | agon head. Washer 8x1 cordless screwdriver or ited. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. ited Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AISI316, phosphated ste 10x70/85 sher enclosed, C5M agon head. Washer 8.5; cordless screwdriver or AISI316, phosphated ste 7.5x50/65 | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). 25 x24x2 enclosed. W wrench. Corrosivitel (function tip). | rench width 13 mm. Suit 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b 3606480214424 rench width 13 mm. Suit y class C5M. | 20062404 20062405 rick materials. Mo 20062419 rick materials. Mo 20062408 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl IMT38032 and solid brick | | | |
| | Control of the last of the las | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. Concrete screw with hexa screwdriver. Stainless steel Amms-S With hexagon head, was concrete screw with hexa materials. Mounting with Material: Stainless steel Amms-S With hexagon head and Concrete screw with hexagon head screw with hexagon he | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AlSI316, phosphated ste 10x70/85 sher enclosed, C5M agon head. Washer 8.5; cordless screwdriver or AlSI316, phosphated ste 7.5x50/65 | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). 25 x24x2 enclosed. W wrench. Corrosivitel (function tip). 50 | 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b 3606480214424 rench width 13 mm. Suity class C5M. 3606480214417 | 20062404 20062405 rick materials. Mo 20062419 rick materials. Mo 20062408 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl IMT38032 and solid brick IMT38031 | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. C. Material: Steel, electropla MMS-S With hexagon head, C5 Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S With hexagon head, was Concrete screw with hexa screwdriver or wrench. C. Material: Stainless steel AMMS-S With hexagon head, was Concrete screw with hexa materials. Mounting with Material: Stainless steel AMMS-S | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AISI316, phosphated ste 10x70/85 sher enclosed, C5M agon head. Washer 8.5: cordless screwdriver or AISI316, phosphated ste 7.5x50/65 combined washer agon head and combine crewdriver or wrench. | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). 25 x24x2 enclosed. W wrench. Corrosivitel (function tip). 50 | 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b 3606480214424 rench width 13 mm. Suity class C5M. 3606480214417 | 20062404 20062405 rick materials. Mo 20062419 rick materials. Mo 20062408 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl IMT38032 and solid brick IMT38031 | | | |
| | | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. Concrete screw with hexa material: Stainless steel Amms-S With hexagon head, was concrete screw with hexa material: Stainless steel Amms-S With hexagon head and Concrete screw with hexa Mounting with cordless so | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AISI316, phosphated ste 10x70/85 sher enclosed, C5M agon head. Washer 8.5: cordless screwdriver or AISI316, phosphated ste 7.5x50/65 combined washer agon head and combine crewdriver or wrench. | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). 25 x24x2 enclosed. W wrench. Corrosivitel (function tip). 50 | 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b 3606480214424 rench width 13 mm. Suity class C5M. 3606480214417 | 20062404 20062405 rick materials. Mo 20062419 rick materials. Mo 20062408 | and solid brick IMT38028 IMT38029 Dunting with cordl IMT38043 Dunting with cordl IMT38032 and solid brick IMT38031 | | | |
| | Control of the last of the las | Concrete screw with hexa materials. Mounting with Material: Steel, electropla MMS-S MMS-S With hexagon head, C4 Concrete screw with hexa screwdriver or wrench. Concrete screw with hexa material: Stainless steel AMMS-S With hexagon head, was concrete screw with hexa material: Stainless steel AMMS-S With hexagon head and Concrete screw with hexa Mounting with cordless so Material: Steel, electropla | agon head. Washer 8x1 cordless screwdriver or sted. 7.5x40 7.5x50 agon head. Wrench wid orrosivity class C4. sted Protect 4. 10x60 M agon head. Wrench wid orrosivity class C5M. AISI316, phosphated ste 10x70/85 sher enclosed, C5M agon head. Washer 8.5: cordless screwdriver or AISI316, phosphated ste 7.5x50/65 combined washer agon head and combine crewdriver or wrench. sted. | 9x1.5 enclosed. W wrench. 100 50 th 16 mm. Suitable 50 th 16 mm. Suitable eel (function tip). 25 c24x2 enclosed. W wrench. Corrosivit eel (function tip). 50 ed washer. Wrench | 3606480214387 3606480214394 for concrete and solid b 3606480214530 for concrete and solid b 3606480214424 rench width 13 mm. Suity class C5M. 3606480214417 width 8 mm. Suitable fo | 20062404 20062405 rick materials. Mo 20062419 rick materials. Mo 20062408 table for concrete | and solid brick IMT38028 IMT38029 Dunting with cordle IMT38043 Dunting with cordle IMT38032 and solid brick IMT38031 lid brick materials | | | |

LSB02788_11-2013 Schneider 7

Concrete screws

Thorsman MULTI-MONTI MMS

| | ge screws | | | | | | | | | | |
|---------------------------------|--|---|---------------------------------------|--------------------|--------------------------------|--------------------|-----------------------|--|--|--|--|
| | | Туре | Dimensions Øxlength (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. | | | | |
| | | With hexagon head and o | ombined washer | | | | | | | | |
| P117751 | C Table of the last of the las | Concrete screw with hexage Mounting with cordless scr Material: Steel, electroplate | ewdriver or wrench. | d washer. Wrench | n width 10 mm. Suitable f | or concrete and s | solid brick materials | | | | |
| | THE PERSON NAMED IN | MMS-MF | 7.5x50 | 50 | 3606480214608 | 20062426 | IMT38050 | | | | |
| | | MMS-MF | 7.5x70 | 50 | 3606480214615 | 20062427 | IMT38051 | | | | |
| | | With hexagon head and o | ombined washer, C4 | | | | | | | | |
| P117751 | Constitution of the second | Concrete screw with hexagon head and combined washer. Wrench width 8 mm. Suitable for concrete and solid brick materials. Mounting with cordless screwdriver or wrench. Corrosivity class C4. Material: Steel, electroplated Protect 4. | | | | | | | | | |
| | | MMS-MF | 6x40 | 100 | 3606480214547 | 20062420 | IMT38044 | | | | |
| | | MMS-MF | 6x60 | 50 | 3606480214554 | 20062421 | IMT38045 | | | | |
| P117751 | Constitution of the second | Concrete screw with hexag Mounting with cordless scr Material: Steel, electroplate | ewdriver or wrench. Co | | | or concrete and s | solid brick materials | | | | |
| | | MMS-MF | 7.5x50 | 50 | 3606480214561 | 20062422 | IMT38046 | | | | |
| | | Eye screw | | | | | | | | | |
| P117756 | e statian | Concrete eye screw. Suitable for concrete and solid brick materials. Mounting with cordless screwdriver or wrench. Material: Steel, electroplated. | | | | | | | | | |
| | | MMS-R | 6x40 | 100 | 3606480214462 | 20062412 | IMT38036 | | | | |
| | | With hexagon head | | | | | | | | | |
| P117753 | THE PROPERTY OF THE PARTY OF TH | Concrete screw with hexage for concrete and solid brick Material: Steel, electroplate | materials. Mounting w | | | 8/M10. Wrench w | ridth 13 mm. Suitab | | | | |
| | | MMS-I | 7.5x60 | 25 | 3606480214455 | 20062411 | IMT38035 | | | | |
| Rand | ge tool, sockets an | nd hits | | | | | | | | | |
| \all | ge tool, sockets an | id bits | | | | | | | | | |
| | | Mounting tool | | | | | | | | | |
| 9117760 | | Mounting tool Mounting tool for concrete Material: Steel, electroplate | | | _ | _ | | | | | |
| P.117.80 | - | Mounting tool for concrete | | 1 | 3606480214622 | 20062428 | IMT38052 | | | | |
| P117760 | | Mounting tool for concrete Material: Steel, electroplate | ed. | 1 | 3606480214622 | 20062428 | IMT38052 | | | | |
| P117760 | | Mounting tool for concrete Material: Steel, electroplate Mounting tool | ed. 16x40 | · | 3606480214622 | 20062428 | IMT38052 | | | | |
| | | Mounting tool for concrete Material: Steel, electroplate Mounting tool Magnetic socket drivers Mounting tool with magnet | ed. 16x40 | · | 3606480214622 3606480214639 | 20062428 | IMT38052 | | | | |
| P117761 | | Mounting tool for concrete Material: Steel, electroplate Mounting tool Magnetic socket drivers Mounting tool with magnet Material: Steel. | ed. 16x40 for hexagon head scre | ews. | | | | | | | |
| P117761 | | Mounting tool for concrete Material: Steel, electroplate Mounting tool Magnetic socket drivers Mounting tool with magnet Material: Steel. 10x45 for 10 mm screws | for hexagon head scre | ews. | 3606480214639 | 20062429 | IMT38053 | | | | |
| 2117758 P117759 P117761 P117760 | | Mounting tool for concrete Material: Steel, electroplate Mounting tool Magnetic socket drivers Mounting tool with magnet Material: Steel. 10x45 for 10 mm screws | for hexagon head screen 10x45 | ews. | 3606480214639 | 20062429 | IMT38053 | | | | |

| Anchor size | | MMS-5 | | MMS-6 | | | MMS-7. | MMS-7.5 | | | MMS-10 | |
|---|--------------------|------------|--------------|-------------|---------|-----|--------|---------|-----|-----|--------|-------|
| Max. recommended tension load of a single anchor without edge influence | | | | | | | | | | | | |
| Cracked concrete C 20/25 | | kN | no | 1.8 | no | 1.7 | 2.7 | no | 2.6 | 3.8 | 3.6 | 4.9 |
| Non-cracked concrete C 20 | /25 | kN | 1.9 | 2.6 | 1.9 | 2.4 | 3.8 | 2.2 | 3.7 | 5.3 | 5.0 | 6.8 |
| Max. recommended shea | r load of a | a single a | anchor with | out edge ir | fluence | | | | | | | |
| Cracked concrete C 20/25 | | kN | no | 2.0 | no | 1.5 | 3.1 | no | 2.4 | 3.4 | 4.5 | 7.9 |
| Non-cracked concrete C 20/25 kN | | no | 2.0 | no | 2.1 | 3.1 | 1.9 | 3.4 | 3.4 | 6.3 | 7.9 | |
| Max. recommended bend | ing load | of a sing | le anchor | | | | | | | | | |
| | | Nm | no | no | no | 5.1 | 5.1 | 9.4 | 9.4 | 9.4 | 18.7 | 18.7 |
| Dimensions of the concre | te memb | er and in | stallation d | lata | | | | | | | | · |
| Embedment | h _{nom} ≥ | mm | 30 | 35 | 30 | 35 | 45 | 35 | 45 | 55 | 55 | 65/75 |
| Min. spacing | S _{min} = | mm | 35 | 35 | 40 | 40 | 40 | 40 | 40 | 40 | 50 | 50 |
| Min. edge distance | C _{min} = | mm | 35 | 35 | 40 | 40 | 40 | 40 | 40 | 40 | 50 | 50 |
| Thickness of the concrete | h _{min} = | mm | _ | _ | _ | 100 | 100 | 100 | | | 120 | |

Universal screws

Thorsman TEL and TEL-C5M



Description

Universal screw (electrician's screw) with panhead and Phillips PH2 recess. Available both in hardened, electroplated steel in corrosivity class C2 and in acid-proof stainless steel in corrosivity class C5M.

Applications

Suitable for wood, wood fibreboard and plasterboard, and together with plugs. Not for use in load bearing timber structures.

Benefits, general

- Documented quality
- High pitch much faster than conventional wood screws
- Extra sharp point no hole notch necessary in soft materials
- Fully threaded works well in thin materials
- Specially designed for electricians' needs
- Durable packaging

- Benefits TEL-C5M
 Type-approved in category C5M
- Corrosion-classified in category C5M for installations in harsh

Technical data

| Material TEL | Hardened, electroplated steel |
|---------------------------|---|
| Material TEL-C5M | Acid-proof stainless steel AISI 316 |
| Standards and regulations | Corrosivity category C5M in accordance with SS-EN |
| ISO | 12944-2 |
| | Construction Regulations issued by the |
| National Board of | Housing, Building and Planning (BKR) |

| Range | | | | | | | |
|----------|--|-----------------------|----------------------------------|--------------------|--|--------------------|----------|
| | | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
| | | Universal screw TEL | | | | | |
| | | | wood, wood fibreboar | | arp point. Fully threaded. ogether with plugs. Not fo | | |
| P.126131 | | TEL | 4.4x21 | 100 | 3606480330377 | 20064000 | IMT38056 |
| P 126 | Deferition . | | 4.4x25 | 100 | 3606480330384 | 20064001 | IMT3805 |
| € | ger. | | 4.4x35 | 100 | 3606480330391 | 20064002 | IMT3805 |
| | C. S. | | 4.4x45 | 100 | 3606480330407 | 20064003 | IMT3805 |
| @apple | Walder. | | 4.4x58 | 100 | 3606480330414 | 20064004 | IMT3806 |
| 0 | | | 4.4x69 | 100 | 3606480330421 | 20063999 | IMT3806 |
| | | Universal screw TEL-C | 5M | | | | |
| | | | wood, wood fibreboar ass C5M. | | arp point. Fully threaded. ogether with plugs. Not fo | | |
| | | TEL-C5M | 4.4x21 | 100 | 7315883760150 | 20051469 | 3760150 |
| | Partition of the Partit | | 4.4x25 | 100 | 7315880115144 | 20051470 | 3760155 |
| 6 | gar. | | 4.4x35 | 100 | 7315883760167 | 20051471 | 3760160 |

Universal screws

Thorsman TGS



Description

Universal screw with panhead and Phillips PH2 recess.

ApplicationsSuitable for wood, wood fibreboard and plasterboard, and together with plugs. Not for use in load bearing timber structures.

Benefits

- Documented quality
- Twin thread fast and easy installation
- High pitch much faster than conventional wood screws
 Extra sharp point no hole notch necessary in soft materials
- Fully threaded works well in thin materials
- Durable packaging

Technical data

| Material | Hardened, electroplated steel | |
|----------|-------------------------------|--|

| Rai | nge | | | | | | |
|-----------|--|--------------------|--|--------------------|--------------------------------|----------------------|--------------------|
| | | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
| | | Universal screw TG | S | | | | |
| | | | panhead, Phillips PH2 rece ner with plugs. Not for use in electroplated steel. | | | | ind wood |
| 26116 | The state of the s | TGS-3,5x19 | 3.5x19 | 100 | 7315883709814 | 20033269 | 3709810 |
| 7 | Same. | TGS-3,5x32 | 3.5x32 | 100 | 7315880054825 | 20033273 | 3709815 |
| 611.9Z | | TGS-4,2x13 | 4.2x13 | 100 | 7315883709838 | 20033274 | 3709830 |
| Ž | A Patter. | TGS-4,2x16 | 4.2x16 | 100 | 7315880055235 | 20033275 | 3709835 |
| | | TGS-4,2x19 | 4.2x19 | 100 | 7315883709845 | 20033276 | 3709840 |
| | - The state of the | TGS-4,2x25 | 4.2x25 | 100 1000 | 7315880054832 7332418020077 | 20033277 20060181 | 3709845 3709846 |
| | S. Marie | TGS-4,2x31 | 4.2x31 | 100 | 7315883709852 | 20033278 | 3709850 |
| | | TGS-4,2x38 | 4.2x38 | 100 | 7315880054849 | 20033279 | 3709855 |
| | and the state of t | TGS-4,2x45 | 4.2x45 | 100 | 7315883709869 | 20033280 | 3709860 |
| F 120 125 | O American Contraction of the Co | TGS-4,2x65 | 4.2x65 | 100 | 7315880054856 | 20033281 | 3709865 |

Self-tapping screwsThorsman TGE and TSE

Thorsman TGE and TSE Self-tapping screws



Description TGE

Self-tapping screw with panhead and Phillips PH2 recess.

Applications

Suitable for installations of sheet metal without pilot drilling, maximum 2x1.5 mm.

Benefits

- · Documented quality
- Penetrates 2x1.5 mm sheet metal without pilot drilling
- · Single thread for optimum drilling capacity
- Fully threaded works well in thin materials
- Durable packaging

Technical data

| Material Hardened, electropiated steel | Material | Hardened, electroplated steel | |
|--|----------|-------------------------------|--|
|--|----------|-------------------------------|--|

| | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
|---|---|-------------------------|--------------------|---------------|--------------------|----------|
| | Self-tapping screw | TGE | | | | |
| | pilot drilling, maximu Material: Hardened, TGE 3,5x11 | | 100 | 7315883709715 | 20034538 | 3709710 |
| Simulation of the last of the | TGE 4,2x16 | 4.2x16 | 100 | 7315883709722 | 20034539 | 3709720 |
| | TGE 4,2x19 | 4.2x19 | 100 | 7315883709739 | 20034540 | 370973 |
| Stranger | TGE 4,2x25 | 4.2x25 | 100 | 7315883709746 | 20034541 | 370974 |
| Sentitude | TGE 4,2x32 | 4.2x32 | 100 | 7315883709753 | 20034542 | 370975 |
| | TGE 4.8x50 | 4.8x50 | 100 | 7315883709760 | 20034543 | 3709760 |



Description TSE

Self-tapping screw with large thin head and Phillips PH2 recess.

Applications

Suitable for the fixing of sheet metal to sheet metal, maximum 2x1.5 mm.

Benefits

- · Documented quality
- Drill point and self-tapping thread for installation in steel or sheet metal
- Penetrates 2x1.5 mm sheet metal without pilot drilling
- Extra broad head, 11.2 mm good function in thin and soft materials
- Fully threaded works well in thin materials
- Durable packaging

Technical data

| Material | Hardened, electroplated steel |
|----------|-------------------------------|
| | |

| | | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
|--------------------|--------------|--------------------|--|--------------------|--------------------------------|----------------------|--------------------|
| | | Self-tapping screw | TSE | | | | |
| P126173 P126173 | | | head, Phillips PH2 recess. m 2x1.5 mm. TSE-4,2x13 a electroplated steel. | | read. Fully threaded. Suital | ble for the fixing o | f sheet metal to |
| | C. Committee | TSE-4,2x13 | 4.2x13 | 100 1000 | 7315883782619 7332418020176 | 20034504 20060188 | 3782610 3782611 |
| | 7 | TSE-4,2x31 | 4.2x31 | 100 | 7315883782626 | 20034505 | 3782620 |

Self-tapping screwsThorsman TSS and TSB



Description TSS

Self-tapping screw with panhead and Phillips PH1 recess.

Applications

Suitable for the fixing of sheet metal to sheet metal, maximum 2x1.5 mm.

Benefits

- Documented quality
- Drill point and self-tapping thread for installation in steel or sheet metal
- Penetrates 2x1.5 mm sheet metal without pilot drilling
- Extra broad head, 11.2 mm good function in thin and soft materials
- Fully threaded works well in thin materials
- Durable packaging

Technical data

| Material | Hardened, electroplated steel | |
|----------|-------------------------------|--|

| Range | | | | | | | |
|--------|---------|--|-------------------------|----------------------|---------------------------|----------------------|----------------|
| | | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
| | | Self-tapping screw TSS | | | | | |
| P81320 | A Salar | Screw with panhead, Phillips metal, maximum 2x1.5 mm. Material: Hardened, electrop | ' | Single thread. Fully | threaded. Suitable for th | ne fixing of sheet n | netal to sheet |
| | | TSS | 2.9x9.5 | 500 | 3606480330438 | 20064005 | IMT38062 |



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Description TSB

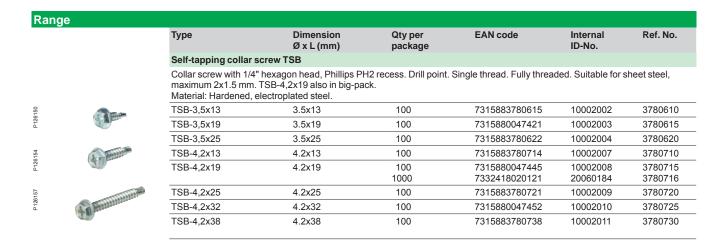
Self-tapping collar screw with 1/4" hexagon head and Phillips PH2 recess.

Suitable for sheet steel, maximum 2x1.5 mm.

- Documented quality
- Self-tapping screw with drill point to penetrate steel or metal
- Collar Ø 8.3 mm with the function of a small washer
- Penetrates 2x1.5 mm sheet metal without pilot drilling
- Fully threaded works well in thin materials
- Works well together with magnetic sockets TST-V 9x100 and TST-V 10x45, and long Phillips bits PH 2x110, in confined spaces
- Durable packaging

Technical data

| Material | Hardened, electroplated steel | |
|----------|-------------------------------|--|
|----------|-------------------------------|--|



Collar screws

Thorsman TST



Description

Collar screw with 1/4" hexagon head and Phillips PH2 recess.

Suitable for wood and wood fibreboard, sheet steel, and together with plugs.

Benefits

- · Documented quality
- Extra sharp-pointed, self-tapping screw
- Twin steep-pitch thread fast and easy running
 Collar Ø 8.3-10,1 mm with the function of a small washer
- Penetrates 2x0,9 mm sheet metal without pilot drilling
- Fully threaded works well in thin materials
- Works well together with magnetic sockets TST-V 9x100 and TST-V 10x45, and long Phillips bits PH 2x110, in confined spaces
- Durable packaging

Technical data

| Material Hardened, electroplated steel | |
|--|--|
|--|--|

| ng | <i>3-</i> | Туре | Dimension | Qty per | EAN code | Internal | Ref. No |
|----|--------------------------|------------------|----------------------------|-------------|---|----------------------|------------------|
| | | Collar screw TST | Ø x L (mm) | package | | ID-No. | |
| | | | ther with plugs. TST-4,2x1 | | nd. Fully threaded. Suitable so in big-pack. | for wood and woo | od fibreboar |
| | | TST-4,2x13 | 4.2x13 | 100 | 7315880044406 | 10001990 | 378021 |
| | Dimen. | TST-4,2x19 | 4.2x19 | 100 1000 | 7315880044413 7332418020091 | 10001991 20060192 | 378021 378021 |
| | & Freezenson | TST-4,2x25 | 4.2x25 | 100 1000 | 7315880044420 7332418020107 | 10001992 20060193 | 378022 378022 |
| | | TST-4,2x32 | 4.2x32 | 100 | 7315880044437 | 10001993 | 378022 |
| | Opposition of the second | TST-4,2x38 | 4.2x38 | 100 | 7315880044444 | 10001994 | 378023 |
| | 1 | TST-4.2x51 | 4.2x51 | 100 | 7315880044451 | 10001995 | 378023 |

LSB02788_11-2013 Schneider Belegtric

Installation screws

Thorsman TSC and TSC-C5M



Description

Collar screw with large thin head and Phillips PH2 recess.

Applications

Works in most materials – metal studwork, cabinets, wood, plugs.

Benefits, general

- Documented quality
- · Extra sharp-pointed screw with self-tapping thread
- Twin steep-pitch thread fast and easy running
- Penetrates 2x0.9 mm sheet metal without pilot drilling (not TSC-C5M)
- Extra broad head, 11.2 mm good function in thin and soft materials
- Works in most materials sheet metal studwork, cabinets, wood, plugs
- · Durable packaging

Benefits, TSC-C5M

- Type-approved in category C5M
- Corrosion-classified in category C5M for installations in harsh environments

Technical data

| Material TSC | Hardened, electroplated steel |
|---------------------------|--|
| Material TSC-C5M | Acid-proof stainless steel AISI 316 |
| Standards and regulations | Corrosivity category C5M in accordance with SS-EN |
| ISO | 12944-2 |
| | Construction Regulations issued by the |
| National Board of | Housing, Building and Planning (BKR) |

| | | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
|---------|--|------------------------------|--|-----------------------|--|----------------------|--------------------|
| | | Installation screw TSC | ; | | | | |
| | | | uitable when jointing two ets, wood, plugs. TSC-4 | o metal sheets togeth | 2x13, 4,2x25, 4x2x31 fully er, maximum thickness 2x 25 also in big-pack. | | |
| P126161 | | TSC-4,2x13 Fully threaded | 4.2x13 | 100 1000 | 7315883782015 7332418020138 | 20034493 20060185 | 3782010 3782011 |
| _ | A Palament | TSC-4,2x25 Fully threaded | 4.2x25 | 100 1000 | 7315883782022 7332418020145 | 20034494 20060186 | 3782020 3782021 |
| | The state of the s | TSC-4,2x31 Fully threaded | 4.2x31 | 100 | 7315883782039 | 20034495 | 3782030 |
| | 2. | TSC-4,2x45 Part-threaded | 4.2x45 | 100 | 7315883782046 | 20034497 | 3782040 |
| | | TSC-4,2x65 Part-threaded | 4.2x65 | 100 | 7315883782053 | 20034498 | 3782050 |
| | | TSC-4,2x85 Part-threaded | 4.2x85 | 50 | 7315883782060 | 20034499 | 3782060 |
| | | | kness 2x0.9 mm. Works | | ed, sharp point. Suitable w netal studwork, cabinets, v | | netal sheets |
| | | TSC-FB 4,2x14 | 4.2x14 | 100 | 3606480507403 | 20076702 | IMT37331 |
| | | Installation screw TSC | C-C5M | | | | |
| | 3 American | | kness 2x0.9 mm. Works | | ead. Fully threaded. Suitat metal studwork, cabinets, | | |
| | | TSC-C5M-4,2x25 | 4.2x25 | 100 | 7315883782268 | 20051467 | 3782260 |
| | | TSC-C5M-4,2x32 | 4.2x32 | 100 | 7315880115137 | 20051468 | 3782265 |

Installation screws

Thorsman TSF and TSI Installation screws



Description TSF

Installation screw with raised countersunk head and Phillips PH2 recess.

Applications

Suitable for mounting directly into plasterboard.

Benefits

- · Documented quality
- Extra sharp-pointed screw with wood screw thread
- Installs directly into plasterboard
- Fully threaded works well in thin materials
- Durable packaging

Technical data

| Material | Hardened, electroplated steel |
|----------|-------------------------------|
| | |

| | | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
|----------|---------------------|---|---|------------------------|--------------------------------|----------------------|------------------------------|
| | | Installation screw T | SF | | | | |
| | | | | a, Phillips PH2 recess | . Fully threaded. Suitable for | or mounting direct | y into |
| 2 | ner Take | plasterboard. TSF-4, Material: Hardened, | 8x25 also in big-pack. electroplated steel. | | | | |
| 7/1501/2 | Received. | plasterboard. TSF-4, | 8x25 also in big-pack. | 100 1000 | 7315883782428 7332418020169 | 20033449 20060189 | y into 3782420 3782421 |
| P126172 | Charles of the same | plasterboard. TSF-4, Material: Hardened, | 8x25 also in big-pack. electroplated steel. | 100 | 7315883782428 | 20033449 | 3782420 |



Description TSI

Installation screw with countersunk head and Phillips PH2 recess.

Applications

Suitable for mounting of plasterboard panels to steel and timber studwork.

Benefits

- Documented quality
- Extra sharp-pointed screw with steep-pitch thread for fast mounting
- Penetrates 0.7 mm sheet metal without pilot drilling
- Countersunk head easy to conceal in the plasterboard
- Fully threaded works well in thin materials
- Durable packaging

Technical data

| Material | Hardened, electroplated steel | |
|----------|-------------------------------|--|
|----------|-------------------------------|--|

| Rang | e | | | | | | |
|---------|--|---|-------------------------|-----------------------|--------------------------------|----------------------|--------------------|
| | | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
| | | Installation screw T | SI | | | | |
| | | Screw with counters studwork. Also in big Material: Hardened, | | ss. Suitable for mour | nting of plasterboard panel | s to steel and timb | er |
| P126176 | W Maritaga | TSI-3,9x32 | 3.9x32 | 100 1000 | 7315883782817 7332418020183 | 20033454 20060190 | 3782810 3782811 |
| | Contraction of the Contraction o | TSI-3,9x41 | 3.9x41 | 100 1000 | 7315883782824 7332418020190 | 20033455 20060191 | 3782820 3782821 |

Installation screws

Thorsman TMP-C3 and TFT



Description TMP-C3

Installation screw with raised countersunk head and Phillips PH2 recess. Corrosivity category C3.

Applications

Suitable for direct use in plasterboard and for 4 mm drilled holes in concrete and bricks.

Benefits

- · Documented quality
- Type-approved
- Corrosion classified in category C3
- · Raised countersunk head
- Fully threaded works well in thin materials
- · Durable packaging

Technical data

| Material | Hardened, electroplated steel |
|---------------------------|--|
| Standards and regulations | Corrosivity category C3 in Accordance with SS-EN |
| ISO | 12944-2 |

| | | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
|---------|--|-----------------------|---------------------------|--------------------|---|--------------------|----------|
| | | Installation screw TM | P-C3 | | | | |
| P126139 | Out State | | mm drilled holes in concr | | ess. Sharp point, fully thresivity category C3. 7315883764011 | 20051496 | 376401 |
| P126 | R Marie Sales | TMP-C3-5,0x32 | 5.0x32 | 100 | 7315880115113 | 20051497 | 376401 |
| | Carrier to the state of the sta | TMP-C3-5,0x38 | 5.0x38 | 100 | 7315883764028 | 20051498 | 376402 |
| | Chris | TMP-C3-5,0x41 | 5.0x41 | 100 | 7315880115120 | 20051499 | 376402 |
| | | TMP-C3-5.0x45 | 5.0x45 | 100 | 7315883764035 | 20051500 | 376403 |





Description TFT-IS

Installation screw with insulated cup washer and cross-slotted head with Phillips PH2 recess.

Applications

Provided with an insulating cup washer for screw-head protection when installing single-insulated wires in for instance trunking.

Renefits

- Documented quality
- Works in many different materials, such as wood, plasterboard, concrete, bricks (pre-drill a Ø 4 mm hole), sheet metal studwork
- Fully threaded works well in thin materials
- · Allows for single-insulated wires to be installed in e.g. trunking
- · Durable packaging

Technical data

| Material | Screw: Hardened, electroplated steel |
|----------|--------------------------------------|
| | Cup washer: PP, transparent |

Range

Type Dimension Qty per EAN code Internal Ref. No. Ø x L (mm) package ID-No.

99118



Installation screw with cross-slotted head type PH2. Sharp point, fully threaded. High pitch for quick mounting. Provided with a transparent cup washer for screw-head protection. To be used when installing single-insulated wire in for instance trunking. Material: Hardened steel, electroplated, and PP.

| TFT-IS 5x32 | 5x32 | 100 | 7332418018203 | 20057379 | 4020210 |
|-------------|------|-----|---------------|----------|---------|
| | | | | | |

Metric screws Thorsman MRX



Description

Screw with metric thread and panhead with Phillips PH2 recess. Hexagon nut with metric thread, round washer.

Applications

Suitable for assembly and mounting of components.

Benefits

- Documented quality
- Range M3–M8 with screw, nut and washer
- Metric screw with panhead and Phillips PH2 recess
- · Durable packaging

Technical data

| Material | Screw: | Electroplated steel 4.8 |
|-----------|---------|-------------------------|
| | Nut: | Electroplated steel 6.8 |
| | Washer: | Electroplated steel |
| Standards | Screw: | ISO 7045 |
| | Nut: | ISO 4032 |
| | Washer: | DIN 125A |

| | Туре | Dimension Ø x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
|----------|---|--|--------------------|---------------------------|--------------------|--------------|
| | Metric screw MRX | ` ' | | | | |
| | cross-point screwo Material: Electropl | thread and panhead, Phillips PH driver or power screwdriver. ated steel 4.8. | 2 recess. Suitable | for assembly and mounting | ng of components. | Mounting wit |
| 0 | MRX-M3x25 | 3x25 | 100 | 7315883702013 | 20039868 | 3702010 |
| 0 | MRX-M3x45 | 3x45 | 100 | 7315883702020 | 20039869 | 3702020 |
| | MRX-M4x25 | 4x25 | 100 | 7315883702044 | 20039870 | 3702040 |
| | MRX-M4x50 | 4x50 | 100 | 7315883702051 | 20039871 | 3702050 |
| E. | MRX-M5x25 | 5x25 | 100 | 7315883702075 | 20039872 | 3702070 |
| | MRX-M5x50 | 5x50 | 100 | 7315883702082 | 20039873 | 3702080 |
| dilling. | MRX-M6x25 | 6x25 | 100 | 7315883702105 | 20039874 | 3702100 |
| 6-40 | MRX-M6x50 | 6x50 | 100 | 7315883702112 | 20039875 | 3702110 |
| | MRX-M8x25 | 8x25 | 100 | 7315883702136 | 20039876 | 3702130 |
| | MRX-M8x50 | 8x50 | 50 | 7315883702143 | 20039877 | 370214 |
| | | Dimension (mm) | | | | |
| | Nut M6M | | | | | |
| | Hexagon nut with n | metric thread, suitable for screw ated steel 6.8. | MRX. | | | |
| | M6M-M3 | M3 | 100 | 7315883702266 | 20039878 | 370226 |
| | M6M-M4 | M4 | 100 | 7315880054870 | 20039879 | 370226 |
| | M6M-M5 | M5 | 100 | 7315883702273 | 20039880 | 370227 |
| | M6M-M6 | M6 | 100 | 7315880054887 | 20039881 | 370227 |
| | M6M-M8 | M8 | 100 | 7315883702280 | 20039882 | 370228 |
| | | Dimension Inner Ø/Outer Ø/t (mm) | | | | |
| | Washer RB | | | | | |
| | Round washer, sui Material: Electrople | table for screw MRX. ated steel. | | | | |
| | RB3,2 | 3.2/7/0.5 | 100 | 7315883702211 | 20039883 | 370221 |
| | RB4,3 | 4.3/9/0.8 | 100 | 7315880054894 | 20039884 | 370221 |
| | RB5,3 | 5.3/10/1.0 | 100 | 7315883702228 | 20039885 | 370222 |
| | RB6,4 | 6.4/12/1.6 | 100 | 7315880054900 | 20039886 | 370222 |
| | RB8,4 | 8.4/16/1.6 | 100 | 7315883702235 | 20039887 | 370223 |

Through bolts Thorsman TEX



Description

The Thorsman range of TEX through bolts includes bolts for indoor as well as outdoor applications. They are intended for installations in both concrete and natural rock materials.

The steel bolts with electroplated zinc are suitable mainly for indoor applications, the hot-dipped zinc and acid-proof stainless steel bolts are to be used in outdoor or extreme environments.

- · Fast installation with hammer and wrench
- · Installs directly in concrete and natural rock materials
- · No need for a clean drilled hole
- · Documented quality
- · High-quality anchor
- Fast-grip design, a few turns on the nut sets the anchor

Material data

| Material steel bolt | Steel | | | |
|---------------------------|---|--|--|--|
| Surface treatments | Electroplated zinc 5 µm, C2 | | | |
| | Hot-dip | pped zinc size M6 25 μm, C3 | | |
| | Hot-dip | pped zinc other sizes 45 µm, C3 | | |
| Material stainless bolt a | nd clips | Acid-proof stainless steel AISI 316, C5M | | |
| Temperature range | From –2 | 0°C to +60°C | | |
| Approval | | | | |

SP SITAC No. SC0268-10

Technical information

Safety classes: source BKR (Swedish institute "Boverkets Konstruktionsregler"), section 2:115, first-second paragraphs.

Concrete strength

| Insta | Installation information, table 1 | | | | | | | | | |
|-------------|-----------------------------------|-------------|-----------|----------------|-----------|-----------|--------------------|--|--|--|
| Dim. TEX | L (mm) | Ø D (mm) | A (mm) | T max. (mm) | B (mm) | M (Nm) | Edge distance (mm) | | | |
| M6 x | 40 | 6 | 37 | 3 | 28* | 8 | 60 | | | |
| M6 x | 70 | 6 | 67 | 26 | 35* | 8 | 60 | | | |
| M8 x | 50 | 8 | 48 | 5 | 35* | 23 | 80 | | | |
| M8 x | 95 | 8 | 93 | 30 | 55 | 23 | 80 | | | |
| M10 x | 80 | 10 | 57 | 7 | 40 | 35 | 100 | | | |
| M10 x | 105 | 10 | 102 | 22 | 70 | 35 | 100 | | | |
| M12 x | 85 | 12 | 82 | 10 | 60 | 55 | 120 | | | |
| M12 x | 125 | 12 | 122 | 30 | 80 | 55 | 120 | | | |
| | | 1Z | | | | 55 | 120 | | | |

^{*} Installation depth smaller than 40 mm only allowed in safety class 1.

The minimum allowed concrete strength for table values is C20/25.

Edge distance and c/c installation distance between through bolts

The recommended edge distance is stated in table 1 for the various dimensions. Close to a corner the minimum edge distance needs to be multiplied by 3 (C in the second picture). The distance between two through bolts installed in formation should be the stated edge distance multiplied by 2 (S in the second picture).

Smallest thickness of the concrete construction

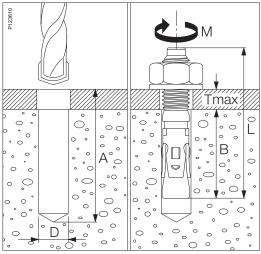
The thickness of the concrete construction must be at least the stated installation depth multiplied by 1.5 and must not be less than 100 mm.

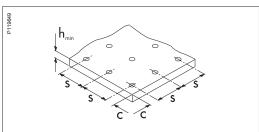
Drill the hole with a hammer drill of the same diameter as the through bolt being installed.

Installation depth

For minimum installation depth, see table 1.

The through bolt should be installed with a torque wrench according to values in table 1. The through bolt needs to be clean and it should not be greased or oiled prior to installation.





Through bolts Thorsman TEX

Corrosion

All steel fixings must have a protection against corrosion in order to stay safe over a long time.

Electroplated steel is suitable for indoor and protected outdoor use, called C2 in this Technical leaflet.

Hot-dip galvanized steel is suitable for outdoor applications, called C3 or C4 in this Technical leaflet, depending on the thickness of the zinc layer. Acid proof stainless steel is suitable for aggressive indoor and outdoor environments, called C5M in this Technical leaflet.

Atmospheric corrosivity categories and examples of typical environments

| Corrosivity category | Examples of typical environment (informative only) | ts in a temperate climate |
|-----------------------------------|--|---|
| | Outdoors | Indoors |
| C1 very low | - | Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels. |
| C2 low | Atmospheres with low level of pollution. Mostly rural areas. | Unheated buildings where condensation may occur, e.g. depots, sports halls, multi-storey car parks. |
| C3 medium | Urban and industrial atmospheres, moderate sulphur dioxide pollution. Coastal areas with low salinity. | Production rooms with high humidity and some air pollution, e.g. food-processing plants, laundries, breweries, dairies. |
| C4 high | Industrial areas and coastal areas with moderate salinity. | Chemical plants, swimming-baths, coastal ship- and boat yards, car-washs. |
| C5-l very high (industrial) | Industrial areas with high humidity and aggressive atmosphere. | Buildings in areas with almost permanent condensation and with high pollution. |
| C5-M very high (marine) | Coastal and offshore areas with high salinity. | Buildings in areas with almost permanent condensation and with high pollution. |

Choice of product per corrosivity/safety classification, table 2 Corrosivity classification Safety classification C1 Electroplated Electroplated C2 Hot-dip galvanized Hot-dip galvanized СЗ Hot-dip galvanized* Hot-dip galvanized* C4 Stainless steel A4 Stainless steel A4 C5-I Stainless steel A4 Stainless steel A4 C5-M Stainless steel A4 Stainless steel A4

^{*} Not applicable for size M6 (25 µm hot-dip galv.). Choose size M8, M10 or M12 (45 µm hot-dip galv.).

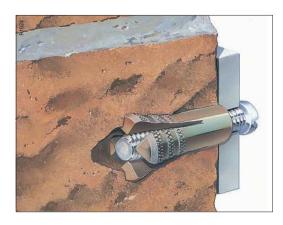
| Pull-out load, table 3 Design resistance and practical loading capacity. Concrete strength C20/25. | | | | | | | | | | |
|--|--------------------|----------------------------|-----------------------------|-------------------------|----------------------------|--------------------|--|--|--|--|
| Dim. | Installation depth | Serviceability limit state | Ultimate lim Safety cl 1 | it state Safety cl 2 | Practical loading capacity | Accidental actions | | | | |
| | (mm) | (kN) | (kN) | (kN) | (kN) | (kN) | | | | |
| M6 | 28 | 4.5 | 2.8 | 2.5 | 2.1 | 5.6 | | | | |
| M8 | 35 | 8.7 | 4.5 | 4.1 | 3.4 | 9.0 | | | | |
| | 55 | 9.0 | 5.9 | 5.3 | 4.4 | 11.7 | | | | |
| M10 | 40 | 9.9 | 5.2 | 4.7 | 3.9 | 10.3 | | | | |
| | 70 | 16.2 | 10.6 | 9.6 | 8.0 | 21.1 | | | | |
| M12 | 60 | 20.4 | 10.7 | 9.7 | 8.1 | 21.4 | | | | |
| M12 | 80 | 20.7 | 15.0 | 13.6 | 11.4 | 30.0 | | | | |

| Shear load, table 4 Design resistance and practical loading capacity. Concrete strength C20/25. | | | | | | | | |
|---|--------------------|------|------|----------------------------|--------------------|--|--|--|
| Dimension | Installation depth | | | Practical loading capacity | Accidental actions | | | |
| | (mm) | (kN) | (kN) | (kN) | (kN) | | | |
| M6 | 28 | 2.9 | 2.6 | 2.2 | 5.7 | | | |
| M8 | 35 | 6.4 | 5.8 | 4.8 | 12.7 | | | |
| M10 | 40 | 9.8 | 8.9 | 7.4 | 19.5 | | | |
| M12 | 60 | 14.3 | 13.0 | 10.8 | 28.6 | | | |

Through bolts Thorsman TEX

| Corrosivity class C2 Through both including nut and washer. Intended mainly for indoor installations in concrete or natural rock material design, the both is set with a few turns of the nut. Material: Steel, electroplated zinc. TEX-C2 M6x40 M6x40 100 3606480214660 20062375 TEX-C2 M6x70 M6x70 100 3606480214661 20062376 TEX-C2 M8x50 M8x50 100 3606480214684 20062376 TEX-C2 M8x95 M8x95 50 3606480214691 20062377 TEX-C2 M10x60 M10x60 50 3606480214707 20062378 TEX-C2 M10x105 M10x105 25 3606480214771 20062381 TEX-C2 M12x85 M12x85 25 3606480214721 20062380 TEX-C2 M12x125 M12x125 25 3606480214738 20062381 Corrosivity class C3 Through both including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as we extreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x70 M6x40 100 3606480214745 | Ref. No. | Internal ID-No. | EAN code | Qty per package | Dimensions Ø x length (mm) | Туре | |
|---|--------------|--------------------|-------------------------|--------------------|--|--|--------|
| design, the bolt is set with a few turns of the nut. Material: Steel, electroplated zinc. TEX-C2 M6x40 M6x40 100 3606480214660 20062374 TEX-C2 M6x70 M6x70 100 3606480214677 20062375 TEX-C2 M8x50 M8x50 100 3606480214684 20062376 TEX-C2 M10x60 M10x60 50 3606480214770 20062377 TEX-C2 M10x105 M10x105 25 3606480214771 20062378 TEX-C2 M10x105 M10x105 25 3606480214721 20062380 TEX-C2 M12x85 M12x85 25 3606480214738 20062381 Corrosivity class C3 Through bott including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x40 M6x40 100 3606480214745 20062382 TEX-C3 M6x40 M6x40 100 3606480214745 20062383 TEX-C3 M8x95 M8x95 50 360648021476 | | | | | | Corrosivity class C2 | |
| TEX-C2 M6x70 M6x70 100 3606480214677 20062375 TEX-C2 M8x50 M8x50 100 3606480214684 20062376 TEX-C2 M8x95 M8x95 50 3606480214691 20062377 TEX-C2 M10x60 M10x60 50 3606480214707 20062378 TEX-C2 M10x105 M10x105 25 3606480214714 20062379 TEX-C2 M12x85 M12x85 25 3606480214714 20062379 TEX-C2 M12x85 M12x85 25 3606480214721 20062380 TEX-C2 M12x125 M12x125 25 3606480214738 20062381 Corrosivity class C3 Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x40 M6x40 100 3606480214745 20062382 TEX-C3 M6x70 M6x70 100 3606480214752 20062382 TEX-C3 M8x50 M8x50 100 3606480214769 20062384 TEX-C3 M8x95 M8x95 50 3606480214776 20062385 TEX-C3 M10x60 M10x60 50 3606480214776 20062385 TEX-C3 M10x105 M10x105 25 3606480214770 20062385 TEX-C3 M10x405 M10x105 25 3606480214790 20062387 TEX-C3 M10x285 M12x85 25 3606480214806 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x40 M6x40 100 3606480214820 20062391 | I. Fast-grip | ral rock material | is in concrete or natur | door installatior | | design, the bolt is set with a few | |
| TEX-C2 M8x50 M8x95 50 3606480214684 20062376 TEX-C2 M8x95 M8x95 50 3606480214691 20062377 TEX-C2 M10x60 M10x60 50 3606480214707 20062378 TEX-C2 M10x105 M10x105 25 3606480214714 20062379 TEX-C2 M12x85 M12x85 25 3606480214721 20062380 TEX-C2 M12x125 M12x125 25 3606480214738 20062381 Corrosivity class C3 Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x40 M6x40 100 3606480214745 20062382 TEX-C3 M6x70 M6x70 100 3606480214752 20062383 TEX-C3 M8x50 M8x50 100 3606480214769 20062384 TEX-C3 M8x95 M8x95 50 3606480214769 20062385 TEX-C3 M10x60 M10x60 50 3606480214783 20062386 TEX-C3 M10x105 M10x105 25 3606480214790 20062387 TEX-C3 M12x85 M12x85 25 3606480214790 20062388 TEX-C3 M12x85 M12x85 25 3606480214790 20062388 TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | IMT3800 | 20062374 | 3606480214660 | 100 | M6x40 | TEX-C2 M6x40 | |
| TEX-C2 M8x50 M8x50 100 3606480214684 20062376 TEX-C2 M8x95 M8x95 50 3606480214691 20062377 TEX-C2 M10x60 M10x60 50 3606480214707 20062378 TEX-C2 M10x105 M10x105 25 3606480214714 20062379 TEX-C2 M12x85 M12x85 25 3606480214721 20062380 TEX-C2 M12x125 M12x125 25 3606480214738 20062381 Corrosivity class C3 Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x40 M6x40 100 3606480214745 20062382 TEX-C3 M6x70 M6x70 100 3606480214752 20062383 TEX-C3 M8x50 M8x50 100 3606480214769 20062384 TEX-C3 M8x95 M8x95 50 3606480214769 20062385 TEX-C3 M10x60 M10x60 50 3606480214783 20062386 TEX-C3 M10x105 M10x105 25 3606480214790 20062387 TEX-C3 M12x85 M12x85 25 3606480214790 20062387 TEX-C3 M12x85 M12x85 25 3606480214806 20062388 TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | IMT3800 | 20062375 | 3606480214677 | 100 | M6x70 | TEX-C2 M6x70 | 0 |
| TEX-C2 M10x60 M10x60 50 3606480214707 20062378 TEX-C2 M10x105 M10x105 25 3606480214714 20062379 TEX-C2 M12x85 M12x85 25 3606480214721 20062380 TEX-C2 M12x125 M12x125 25 3606480214738 20062381 Corrosivity class C3 Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x40 M6x40 100 3606480214745 20062382 TEX-C3 M6x70 M6x70 100 3606480214752 20062382 TEX-C3 M8x50 M8x50 100 3606480214752 20062383 TEX-C3 M8x95 M8x95 50 3606480214769 20062384 TEX-C3 M8x95 M8x95 50 3606480214776 20062385 TEX-C3 M10x60 M10x60 50 3606480214776 20062385 TEX-C3 M10x105 M10x105 25 3606480214790 20062387 TEX-C3 M10x285 M12x85 25 3606480214806 20062388 TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x40 M6x40 100 3606480214837 20062391 | IMT3800 | 20062376 | 3606480214684 | 100 | M8x50 | TEX-C2 M8x50 | |
| TEX-C2 M10x105 M10x105 25 3606480214714 20062379 TEX-C2 M12x85 M12x85 25 3606480214721 20062380 TEX-C2 M12x125 M12x125 25 3606480214738 20062381 Corrosivity class C3 Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x40 M6x40 100 3606480214745 20062382 TEX-C3 M6x70 M6x70 100 3606480214752 20062383 TEX-C3 M8x50 M8x50 100 3606480214769 20062384 TEX-C3 M8x95 M8x95 50 3606480214769 20062385 TEX-C3 M10x60 M10x60 50 3606480214776 20062385 TEX-C3 M10x105 M10x105 25 3606480214790 20062387 TEX-C3 M12x85 M12x85 25 3606480214806 20062388 TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x40 M6x70 100 3606480214820 20062390 | IMT3800 | 20062377 | 3606480214691 | 50 | M8x95 | TEX-C2 M8x95 | |
| TEX-C2 M12x85 M12x85 25 3606480214721 20062380 TEX-C2 M12x125 M12x125 25 3606480214738 20062381 Corrosivity class C3 Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x40 M6x40 100 3606480214745 20062382 TEX-C3 M6x70 M6x70 100 3606480214752 20062383 TEX-C3 M8x50 M8x50 100 3606480214769 20062384 TEX-C3 M8x95 50 3606480214769 20062385 TEX-C3 M10x60 M10x60 50 3606480214776 20062385 TEX-C3 M10x105 M10x105 25 3606480214780 20062386 TEX-C3 M12x85 M12x85 25 3606480214806 20062388 TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | IMT3800 | 20062378 | 3606480214707 | 50 | M10x60 | TEX-C2 M10x60 | |
| TEX-C2 M12x125 M12x125 25 3606480214738 20062381 Corrosivity class C3 Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as we extreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. M4 certain installations in concrete or natural rock material, outdoors as we extreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. M6x40 M6x40 100 3606480214745 20062382 TEX-C3 M6x70 M6x70 100 3606480214752 20062383 TEX-C3 M8x50 M8x50 100 3606480214769 20062384 TEX-C3 M10x60 M10x60 50 360648021476 20062385 TEX-C3 M10x105 M10x105 25 360648021470 20062387 TEX-C3 M12x85 M12x85 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as we extreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. | IMT3801 | 20062379 | 3606480214714 | 25 | M10x105 | TEX-C2 M10x105 | |
| Corrosivity class C3 Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as we extreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x40 | IMT3801 | 20062380 | 3606480214721 | 25 | M12x85 | TEX-C2 M12x85 | |
| Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Steel, hot-dipped zinc. TEX-C3 M6x40 | IMT3801 | 20062381 | 3606480214738 | 25 | M12x125 | TEX-C2 M12x125 | |
| TEX-C3 M6x70 | rell as in | | s of the nut. | t with a few turn | t-grip design, the bolt is so | Through bolt including nut and extreme indoor environments. I Material: Steel, hot-dipped zinc | |
| TEX-C3 M8x50 M8x50 100 3606480214769 20062384 TEX-C3 M8x95 M8x95 50 3606480214776 20062385 TEX-C3 M10x60 M10x60 50 3606480214783 20062386 TEX-C3 M10x105 M10x105 25 3606480214790 20062387 TEX-C3 M12x85 M12x85 25 3606480214806 20062388 TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | | | | | | | - 30" |
| TEX-C3 M8x95 | IMT3801 | | | | | | Market |
| TEX-C3 M10x60 M10x60 50 3606480214783 20062386 TEX-C3 M10x105 M10x105 25 3606480214790 20062387 TEX-C3 M12x85 M12x85 25 3606480214806 20062388 TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | IMT3801 | | | | | | |
| TEX-C3 M10x105 M10x105 25 3606480214790 20062387 TEX-C3 M12x85 M12x85 25 3606480214806 20062388 TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as we extreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | IMT3801 | | | | | | |
| TEX-C3 M12x85 M12x85 25 3606480214806 20062388 TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | IMT3801 | | | | 1 | | |
| TEX-C3 M12x125 M12x125 25 3606480214813 20062389 Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as we extreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | IMT3801 | | | | | | |
| Corrosivity class C5M Through bolt including nut and washer. Suitable in installations in concrete or natural rock material, outdoors as wextreme indoor environments. Fast-grip design, the bolt is set with a few turns of the nut. Material: Stainless steel, acid-proof. TEX-C5M M6x40 M6x40 M6x40 M6x70 | IMT3801 | | | | | | |
| TEX-C5M M6x40 M6x40 100 3606480214820 20062390 TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | | | natural rock material | ns in concrete or | sher. Suitable in installatic t-grip design, the bolt is so | Corrosivity class C5M Through bolt including nut and extreme indoor environments. I | |
| TEX-C5M M6x70 M6x70 100 3606480214837 20062391 | INATOCOC | 20000200 | 2000400044000 | 100 | | | |
| | IMT3802 | | | | | | - |
| TEA-C5M M8X50 M8X50 100 3606480214844 20062392 | IMT3802 | | | | | | - |
| TEV 0511110 05 | IMT3802 | | | | | | |
| TEX-C5M M8x95 M8x95 50 3606480214851 20062393 | IMT3802 | | | | | | |
| TEX-C5M M10x60 M10x60 50 3606480214868 20062394 TEX-C5M M10x105 M10x105 25 3606480214875 20062395 | IMT3802 | | | | | | |

Wedge brass anchors Thorsman TMA



Description

Brass anchor with metric fixing point.

Applications

Wherever a fixing point flush with the surface is needed, in either ceiling, wall or floor surfaces. Suitable for concrete, stone, solid bricks and other solid materials.

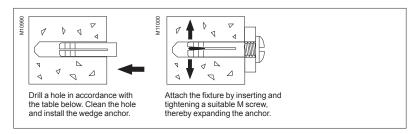
Benefits

- Captive fixing
- No projecting parts
- · Shallow installation depth
- No special tools required
- · Corrosion-resistant

Material data

Material Brass

Installation



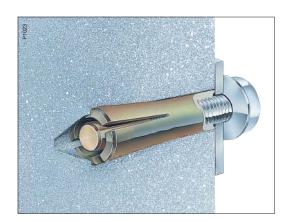
| Technical data (1 kN approx. 100 kg) | | | | | | | | |
|--------------------------------------|---------------|-----------------|--|---|--|--|--|--|
| Type Inside thread x L | Drill Ø mm | Min. hole depth | Min. screw penetration depth ¹⁾ | Recommended load ²⁾ Shear/Pull-out in concrete 25 N/mm ² | | | | |
| mm | | mm | mm | kN | | | | |
| TMA-M6x24 | 8 | 27 | 24 | 1.5/0.65 | | | | |
| TMA-M8x30 | 10 | 34 | 30 | 2.0/1.1 | | | | |
| TMA-M10x34 | 12 | 38 | 34 | 2.5/1.6 | | | | |

| Range | | | | | | | |
|--------|-------------------|--|---|--------------------|----------------------------|--------------------|-------------------|
| | | Туре | Dimensions Ø x length (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
| | | Wedge brass anchor with m concrete, stone, solid bricks Material: Brass. | netric fixing point. Intended for use s and other solid materials. | wherever a | ixing point flush with the | e surface is nee | ded. Suitable for |
| 1624 | | TMA-M6x24 | M6x24 | 100 | 7315882820107 | 10001250 | 2820108 |
| P76 | The second second | TMA-M8x30 | M8x30 | 100 | 7315882820121 | 10001251 | 2820124 |
| | | TMA-M10x34 | M10x34 | 50 | 7315882820145 | 10001252 | 2820140 |
| P79624 | | TMA-M8x30 | M8x30 | 100 | 7315882820121 | 10001251 | 2 |

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¹⁾ For full expansion. ²⁾ Safety factor 2.5 for shear and 3 for pull-out load.

Wedge steel anchors Thorsman TSA



Description

Steel anchor with metric fixing point.

Applications

Wherever a fixing point flush with the surface is needed, in either ceiling, wall or floor surfaces. Suitable for concrete, stone, solid bricks and blocks.

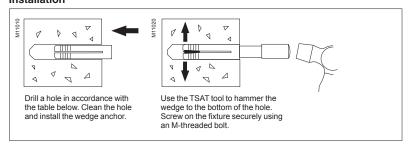
Benefits

- · Captive fixing
- No projecting parts
- Shallow installation depth
- · Withstands aggressive environments
- High load values
- Fireproof

Material data

Material Electroplated steel, yellow chromated

Installation



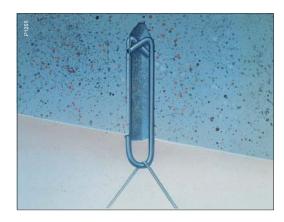
| Technical data (1 kN approx. 100 kg) | | | | | | | | |
|--------------------------------------|----------------------------|--------------------|-------------------------------|--------------------------|-------------------|--|--|--|
| Type Inside thread x L mm | Ø/min. hole depth mm | Thread diameter mm | Inside thread length mm | Min. distance to edge mm | Min. c/c distance | Max. recommended load ¹⁾ kN | | |
| TSA-M6x25 | 8/25 | M6 | 11 | 70 | 70 | 1.7 | | |
| TSA-M8x30 | 10/30 | M8 | 15 | 90 | 90 | 2.8 | | |
| TSA-M10x40 | 12/40 | M10 | 18 | 120 | 120 | 4.2 | | |
| TSA-M12x50 | 15/50 | M12 | 21 | 150 | 150 | 7.4 | | |

 $^{^{1)}\}mbox{Pull-out}$ in 30 N/mm 2 concrete. Safety factor 5 included.

| Range | | | | | | | |
|--------|--|---|-------------------------------|--------------------|----------------------|--------------------|-------------|
| | | Туре | Dimensions Ø x length (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
| | | Anchor | | | | | |
| | | Wedge steel anchor with metric fixing surface is needed. Suitable for concre Material: Electroplated steel, yellow cl | te, stone, solid bricks and | | ded for use wherever | a fixing point flu | sh with the |
| P79623 | | TSA-M6x25 | M6x25 | 100 | 7315882810108 | 10001236 | 2810109 |
| P78 | | TSA-M8x30 | M8x30 | 100 | 7315882810122 | 10001237 | 2810125 |
| | | TSA-M10x40 | M10x40 | 50 | 7315882810146 | 10001238 | 2810141 |
| | | TSA-M12x50 | M12x50 | 50 | 7315882810160 | 10001239 | 2810166 |
| | | Hammer tool | | | | | |
| | | Hammer tool for the above wedge ste Material: Steel. | el anchors. | | | | |
| -80863 | | TSAT-M6 | 10/140 | 1 | 7315882810900 | 10001242 | 2810901 |
| P8(| The same of the sa | TSAT-M8 | 15/215 | 1 | 7315882810924 | 10001243 | 2810927 |
| | | TSAT-M10 | 16/230 | 1 | 7315882810948 | 10001244 | 2810943 |

Universal anchors

Thorsman SEVENHOOK™ SVH Universal anchors



Description

Stainless steel universal anchor.

Applications

For fittings close to the ceiling (with locking tab) and to suspend false ceiling fittings, pipework and ventilation equipment. Suitable for concrete, natural stone, solid bricks and sheet metal.

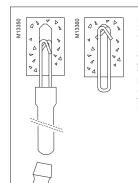
Benefits

- No material fatigue
- · Fire-classified and vibration resistant
- Corrosion-resistant
- Simple, secure fitting grips immediately after driving in
 Minimal drilling depth 30 mm

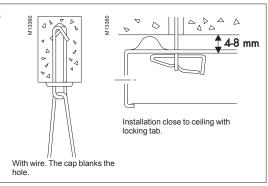
Material data

| Material | Anchor: Ac | cid-proof stainless steel wire, AISI 316 |
|----------|-----------------|--|
| | Setting tool: S | teel, pre-galvanized |
| | Locking tab: | Stainless steel AISI 304 |

Installation



Drill a hole in accordance with the table Drill a hole in accordance with the table below. Drive in SEVENHOOK using the setting tool to get the right depth. Done! The short, stiff wire-ends efficiently grip the sides of the hole, giving a srong, secure fixing. Temporary installation of cables, hoses, etc. Drill slightly deeper (approx. 50 mm) and when the job is finished, drive SEVENHOOK into the hole.



| Technical data (1 kN approx. 100 kg) | | | | | | | |
|--------------------------------------|------------|------------------------|-----------------------|----------------------|-------------------------------|--|--|
| Туре | Drill size | Opening for wire, tie, | Smallest drilling and | Practical loading ca | Practical loading capacity 1) | | |
| | Ø mm | hanger Ø mm | insertion depth mm | Concrete C25 kN | Solid brick kN | | |
| SVH-E1 | 8 | 6.5 | 30 | 1.0 | 0.5 | | |
| SVH-E2 | 8 | 6.5 | 30 | 1.0 | 0.5 | | |

¹⁾ Safety factor 3 for pull-out load.

| ange | | | | | | |
|------|-----------------------------|--|---------------------|------------------------|--------------------|-------------------|
| | Туре | Dimensions W x L (mm) | Qty per package | EAN code | Internal ID-No. | Ref. No. |
| | Universal anchor | | | | | |
| | ventilation equipment. SVH- | hor. Intended for fittings close E1 includes 100 white caps to crete, natural stone, solid brick 316. | blank the drilled h | ole and one setting to | | |
| | SVH-E1 | 14/50 | 100 | 7321677818709 | 20066613 | 781870 |
| | SVH-E2 | 14/50 | 500 | 7321677818716 | 20066622 | 781871 |
| | Locking tab | | | | | |
| | | igs close to the ceiling (max. 4 rizontally to counter downward 304. | | | eiling). For hea | vier fittings, tl |
| | SVH-L | 11/30 | 25 | 7321677818723 | 20066092 | 704070 |
| | | | | | | 781872 |
| | Setting tool | | | | | 781872 |
| | | allation depth of the universal a | anchor. | | | 781872 |

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88 | Thorsman 11.2013 | Installation Material Schneider Delectric



X

Schneider Installation Material | 11.2013 Thorsman | 89

Range

Hammer drill bits

Thorsman THB



Description

Hammer drill bits for electro-pneumatic rotary-hammer drilling machines with SDS taper. Suitable for use in concrete, brick, stone and rock.

Renefits

- Special quality chrome vanadium steel
- · SDS shank fits a wide range of hammer drilling machines
- · Wide range including long drill bits

Standards

In accordance with DIN 50049-3.1 A.

Material data

High quality tungsten carbide tip with chrome vanadium steel shaft.

| Range | Type ØxL mm | Drilling depth mm | Qty per package | EAN code | Ref. No. |
|--------|--|---------------------------------|--------------------|---|--|
| | Hammer drill bits intended for brick, stone and rock. Material: Tungsten carbide t | • | , | rilling machines with SDS taper. Suitable | for concrete, |
| 978 | THB 4x110 | 50 | 1 | 5018934947693 | 1788868A |
| P88049 | THB 5x110 THB 5x160 | 50 100 | 1 | 5018934947716 5018934947723 | 1788926A 1788934A |
| | THB 5.5x110 THB 5.5x160 | 50 100 | 1 | 5018934947747 5018934947754 | 1788975A 1788989A |
| | THB 6x110 THB 6x160 | 50 100 | 1 | 5018934947778 5018934947761 | 1789023A 1789016A |
| | THB 6.5x110 THB 6.5x160 | 50 100 | 1 | 5018934947785 5018934947792 | 1789028A 1789030A |
| | THB 7x110 THB 7x160 | 50 100 | 1 | 5018934947808 5018934947815 | 1789052A 1789054A |
| | THB 8x110 THB 8x160 THB 8x210 THB 8x260 | 50 100 150 200 | 1 1 1 | 5018934947822 5018934947839 5018934947846 5018934947853 | 1789080A 1789108A 1789116A 1789120A |
| | THB 10x160 THB 10x210 THB 10x450 | 100 150 400 | 1 1 1 | 5018934947860 5018934947877 5018934947884 | 1789153A 1789165A 1789195A |
| | THB 12x160 THB 12x210 THB 12x250 THB 12x450 THB 12x600 | 100 150 200 400 550 | 1 1 1 1 | 5018934947907 5018934947914 5018934947921 5018934947945 5018934947952 | 1789252A 1789272A 1789304A 1789319A 1789323A |
| | THB 14x150 THB 14x200 THB 14x450 THB 14x600 | 100 150 400 550 | 1 1 1 1 | 5018934947969 5018934947976 5018934947990 5018934948003 | 1789350A 1789352A 1789410A 1789414A |
| | THB 16x150 THB 16x200 THB 16x300 THB 16x450 THB 16x600 | 100 150 250 400 550 | 1 1 1 1 | 5018934948010 5018934948027 5018934948034 5018934948041 5018934948058 | 1789440A 1789450A 1789455A 1789470A 1789481A |
| | THB 18x450 | 400 | 1 | 5018934948065 | 1789485A |
| | THB 20x450 THB 20x600 | 400 550 | 1 | 5018934948072 5018934948089 | 1789500A 1789510A |
| | THB 22x450 | 400 | 1 | 5018934948096 | 1789520A |
| | THB 25x450 | 400 | 1 | 5018934948102 | 1789570A |

Screw bits & Magnetic sockets

Thorsman PH, TST-V



Description

Bits

The Thorsman range of screw bits is adapted to the screw range with either Phillips cross recess or Torx. All bits are hexagonal with 1/4" drive end. Three lengths are available: 25 mm, 50 mm and 110 mm. The long bits are well suited for access in tight spaces. Hardened steel provides good strength durability and fit.

Renefits

- · Bit range adapted to the Thorsman screw range
- Standard 1/4" hexagon drive end
- Phillips cross recess or Torx
- · Long bit for access in tight spaces
- · Hardened steel for good strength durability and fit

Magnetic sockets

Two 1/4" sockets suit all Thorsman 1/4" hexagon-head collar screws. The long holder is extra thin to facilitate access in tight spaces. Hardened steel provides good strength durability and fit.

Benefits

- Suit all Thorsman 1/4" hexagon-head collar screws
- Standard 1/4" hexagon drive end
- · Thin and long magnetic socket for access in tight spaces
- · Hardened steel for good strength durability and fit

Standards

ISO 1173-1975

DIN 3126

Material data

Hardened steel (special hardening process).

| Туре | Dimensions Hexagon x L | Qty per package | EAN code | Ref. No. |
|---|---------------------------|----------------------|-----------------------------------|--------------------------|
| Phillips, for use with an | extension socket | | | |
| 1/4" hexagon drive end, le Material: Hardened steel. | | Phillips cross reces | sed screws. To be used togeth | er with an extension so |
| PH 2x25 | 1/4"x25 | 2 | 7315881772056 | 1772 054 |
| PH 2x25 reduced | 1/4"x25 | 2 | 7315880056294 | 1772 052 |
| Phillips, for use with a s | crew-driver | | | |
| 1/4" hexagon drive end, le with a screw-driver. Material: Hardened steel. | | spectively. Suitable | for Philllips cross recessed scre | ews. To be used togethe |
| PH 2x50 50 mm | 1/4"x50 | 2 | 7315880055273 | 1772 056 |
| PH 2x110 110 mm for tight spaces | 1/4"x110 | 2 | 7315880055297 | 1772 058 |
| Torx, for use with an ext | ension socket | | | |
| 1/4" hexagon drive end, le Material: Hardened steel. | | Torx T10 or T20 scr | rews. To be used together with | an extension socket. |
| T20x25 For T20 screws | 1/4"x25 | 2 | 7315880115175 | 1720 036 |
| Torx, for use with a scre | w-driver | | | |
| 1/4" hexagon drive end, le Material: Hardened steel. | | able for Torx T10 or | T20 screws. To be used togeth | ner with a screw-driver. |
| T20x50 For T20 screws | 1/4"x50 | 2 | 7315880115182 | 1720 038 |
| T20x110 For T20 screws | 1/4"x110 | 2 | 7315881720040 | 1720 040 |

Screw bits & Magnetic sockets

Thorsman PH, TST-V

Range Magnetic sockets **EAN** code Ref. No. Type Internal **Dimensions** Qty per ØxL hexagon package 1/4" hexagon drive end, lengths 45 and 100 mm respectively. Internal hexagon with magnet. Suitable for collar screws with a 1/4" hexagon head. To be used together with a screw-driver. Material: Hardened steel. P91677 TST-V 10x45 7315880055259 1772 125 10x45 45 mm TST-V 9x100 1/4" 9x100 1 7315881772124 1772 120



100 mm for tight spaces

Schneider Installation Material | 11.2013 Thorsman | 93



94 | Thorsman 11.2013 | Installation Material Schneider Pelectric



Cable grommet

ET

Material: EPDM and CR

Schneider Installation Material | 11.2013 Thorsman | 95

Cable grommet

Thorsman TET™





Description

TET grommets are available in two different materials, Ethylene/propylene (EPDM) rubber and Chloroprene (CR) rubber. They are intended for completely dust and watertight sealing of cables, conduits and pipes, for example in cars, aeroplanes, ships, electrical and hydraulic equipment, enclosed apparatus and light fittings. Both materials are weather and temperature resistant and can be used both indoors and outdoors.

Advantages

- Fast installation seals without tightening of the grommet
- Permits vibration in cables, conduits and pipes without detracting from the seal
- The sealing diaphragm is punctured only when the cable is drawn through – acts as a blind plug and is ready for installation
- · Approved for installation in ships
- Each size has a very wide sealing range.
- High degree of protection IP67

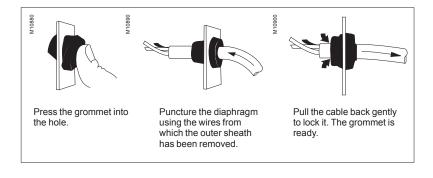
Approvals

Approved by Lloyds Register of Shipping, Det Norske Veritas for marine and offshore use, and the Swedish, Norwegian, Danish and Finnish national approval boards for watertight penetration.

Degree of protection

IP67 in accordance with IEC.

Installation



Cable grommet Thorsman TET™

| • | | | | | | | | | |
|-----------|--|---|---|--|---|---|--|--|--|
| | Туре | Colour | Dimensions Ø/B mm | Hole¹) Ø mm | Qty per package | EAN code | Ref. No. | | |
| | Grommets, EPDN | Л | | | | | | | |
| 0.8 | Grommet suitable for untapped holes in material with a thickness from 1 to 4 mm, TET 3-5 for 0.5 to 3 mm. For completely dust and watertight cable and pipe inlets. Material: EPDM rubber. | | | | | | | | |
| | TET 3-5 | Grey | 20/13 | 12.5 ²⁾ | 50 | 3606480163784 | IMT36179 | | |
| | TET 5-7 | Grey | 21/18 | 16 | 50 | 3606480163791 | IMT36180 | | |
| | TET 7-10 | Grey | 24/20 | 19 | 50 | 3606480398834 | IMT37303 | | |
| | TET 10-14 | Grey | 28/22 | 23 | 50 | 3606480398872 | IMT37307 | | |
| | TET 14-20 | Grey | 35/25 | 29 | 50 | 3606480398919 | IMT37311 | | |
| | TET 20-26 | Grey | 46/30 | 38 | 25 | 3606480398940 | IMT37314 | | |
| | TET 26-35 | Grey | 58/35 | 48 | 25 | 3606480398971 | IMT37317 | | |
| | Metric grommets | , EPDM | | | | | | | |
| 48 | Grommet suitable cable and pipe inle Material: EPDM ru | ets. | etric thread in material w | vith a thickness | from 1 to 4 mm. F | For completely dust and | d watertight | | |
| | TET M7-10 | Grey | 25/20 | M20 | 50 | 3606480163807 | IMT36181 | | |
| | TET M10-14 | Grey | 29/22 | M25 | 50 | 3606480163814 | IMT36182 | | |
| | TET M14-20 | Grey | 37.5/25 | M32 | 50 | 3606480163821 | IMT36183 | | |
| | TET M20-26 | Grey | 48/30 | M40 | 25 | 3606480163838 | IMT36184 | | |
| | TET M26-35 | Grey | 60/35 | M50 | 25 | 3606480163845 | IMT36185 | | |
| | Grommets, CR | | | | | | | | |
| AA | Grommet suitable for untapped holes in material with a thickness from 1 to 4 mm, TET 3-5 for 0.5 to 3 mm. For completely dust and watertight cable and pipe inlets. Material: Chloroprene (CR). | | | | | | | | |
| | TET 3-5C | Black | 20/13 | 12.52) | 50 | 3606480398803 | IMT37300 | | |
| | TET 5-7C | Black | 21/18 | 16 | 50 | 3606480399008 | IMT37320 | | |
| | TET 7-10C | Black | | 40 | F0 | 3606480398841 | IMT37304 | | |
| | TET 7-10C | Diack | 24/20 | 19 | 50 | 0000+000000+1 | 1101137304 | | |
| | TET 10-14C | Black | 28/22 | 23 | 50 | 3606480398889 | IMT37304 | | |
| | | | | | | | | | |
| | TET 10-14C | Black | 28/22 | 23 | 50 | 3606480398889 | IMT37308 | | |
| | TET 10-14C TET 14-20C | Black Black | 28/22 35/25 | 23 29 | 50 50 | 3606480398889 3606480398926 | IMT37308 IMT37312 | | |
| | TET 10-14C TET 14-20C TET 20-26C | Black Black Black Black | 28/22 35/25 46/30 | 23 29 38 | 50 50 25 | 3606480398889 3606480398926 3606480398957 | IMT37308 IMT37312 IMT37315 | | |
| 44 | TET 10-14C TET 14-20C TET 20-26C TET 26-35C Metric grommets | Black Black Black Black , CR for holes with mets. | 28/22 35/25 46/30 | 23 29 38 48 | 50 50 25 25 | 3606480398889 3606480398926 3606480398957 3606480398988 | IMT37308 IMT37312 IMT37315 IMT37318 | | |
| 46 | TET 10-14C TET 14-20C TET 20-26C TET 26-35C Metric grommets Grommet suitable cable and pipe inle | Black Black Black Black , CR for holes with mets. | 28/22 35/25 46/30 58/35 | 23 29 38 48 | 50 50 25 25 | 3606480398889 3606480398926 3606480398957 3606480398988 | IMT37308 IMT37312 IMT37315 IMT37318 | | |
| 46 | TET 10-14C TET 14-20C TET 20-26C TET 26-35C Metric grommets Grommet suitable cable and pipe inle Material: Chloropre | Black Black Black Black , CR for holes with mets. ene (CR). | 28/22 35/25 46/30 58/35 setric thread in material w | 23 29 38 48 vith a thickness | 50 50 25 25 from 1 to 4 mm. F | 3606480398889 3606480398926 3606480398957 3606480398988 For completely dust and | IMT37308 IMT37312 IMT37315 IMT37318 | | |
| 46 | TET 10-14C TET 14-20C TET 20-26C TET 26-35C Metric grommets Grommet suitable cable and pipe inle Material: Chloropri TET M7-10C | Black Black Black Black , CR for holes with mets. ene (CR). Black | 28/22 35/25 46/30 58/35 setric thread in material w | 23 29 38 48 with a thickness | 50 50 25 25 25 from 1 to 4 mm. F | 3606480398889 3606480398926 3606480398957 3606480398988 For completely dust and | IMT37308 IMT37312 IMT37315 IMT37318 d watertight | | |

TET M26-35C

Black

60/35

M50

25

3606480163746

IMT36175

Cable grommet Thorsman TET™

Range, bulk



Grommets, EPDM

 $Grommet\ suitable\ for\ untapped\ holes\ in\ material\ with\ a\ thickness\ from\ 1\ to\ 4\ mm,\ TET\ 3-5\ for\ 0.5\ to\ 3\ mm.\ For\ completely\ dust$ and watertight cable and pipe inlets. Material: EPDM rubber.

| Material. Li Divi | rabbon. | | | | | |
|-------------------|---------|-------|--------------------|------|---------------|----------|
| TET 3-5 | Grey | 20/13 | 12.5 ²⁾ | 5000 | 3606480398810 | IMT37301 |
| TET 5-7 | Grey | 21/18 | 16 | 4000 | 3606480399015 | IMT37321 |
| TET 7-10 | Grey | 24/20 | 19 | 2500 | 3606480398858 | IMT37305 |
| TET 10-14 | Grey | 28/22 | 23 | 1700 | 3606480398896 | IMT37309 |
| TET 14-20 | Grey | 35/25 | 29 | 1000 | 3606480398933 | IMT37313 |
| TET 20-26 | Grey | 46/30 | 38 | 425 | 3606480398964 | IMT37316 |
| TET 26-35 | Grev | 58/35 | 48 | 250 | 3606480398995 | IMT37319 |

Grommets, CR

Grommet suitable for untapped holes in material with a thickness from 1 to 4 mm, TET 3-5 for 0.5 to 3 mm. For completely dust and watertight cable and pipe inlets. Material: Chloroprene (CR).

| TET 3-5C | Black | 20/13 | 12.52) | 5000 | 3606480398827 | IMT37302 |
|------------|-------|-------|--------|------|---------------|----------|
| TET 5-7C | Black | 21/18 | 16 | 4000 | 3606480399022 | IMT37322 |
| TET 7-10C | Black | 24/20 | 19 | 2500 | 3606480398865 | IMT37306 |
| TET 10-14C | Black | 28/22 | 23 | 1700 | 3606480398902 | IMT37310 |

¹⁾ Tolerance if material thickness is more than 2 mm = +1/-0 mm Tolerance if material thickness is less than 2 mm = ±1 mm





²⁾ Tolerance ±0.5 mm

Material data

Material **FPDM** Ethylene/propylene rubber Chloroprene rubber Black Colour Grey Halogen-free Yes No 1.35 g/cm³ Density 1.38 g/cm³ 60–65° shore A 60-62° shore A Hardness Weather and temperature resistant. Weather and temperature resistant. Weather resistance Can be used both indoors and outdoors. Can be used both indoors and outdoors Temperature resistance For continuous use between -40°C and +100°C For continuous use between -25°C and +95°C. (cf.natural rubber +70°C). Slightly higher temperature for short periods (+130°C for about one hour). Slightly higher temperature for short periods. After 72 hours at +100°C. After 72 hours at +100°C. Thermal aging Change in properties: Change in properties: Hardness +5° SH (+11%) Hardness +6° SH (+10%) Breaking point -18% Breaking point -8% Elongation at break -26% Elongation at break -16% After 72 hours at +125°C. Change in properties: Hardness +13° SH (+13%) Breaking point -12% Elongation at break -35% Fire properties Non self-extinguishing Self-extinguishing. Combustion rate 2 cm/min approx. Tested to IEC standard. Approved for installation in ships in accordance with IEC Publ. No. 92-1 (1964). Electrical installations in ships, Part 1 General requirements. Normally resistant to: Normally resistant to: Chemical resistance at -20°C Detergents · Aliphatic hydrocarbons Strongly oxidizing chemicals such as: Alkalis Ammonia Alcohols · Dilute phosphoric acid Dilute acids Dilute chromic acid Slightly affected by: · Dilute nitric acid Acetone · Dilute hydrochloric acid Ammonia · Dilute sulphuric acid Freon Others, e.g.:Developer Glycol • Sodium hydroxide Glycol · Cooling fluid (emulsion) Slightly affected by: · Concentrated acids at room temperature Oil resistance Not resistant to mineral oils, but withstands minor Good resistance to mineral oils. The effect of other splashing such as that occurring in engine compartpetroleum products, such as solvents, lubricating grease and wax, is insignificant. Should not be used ments of vehicles, etc.

Being based on laboratory tests, all information should be regarded for guidance only. Temperature, duration of exposure, concentrations, etc., severely affect the properties.

in direct contact with petrol (gasoline)



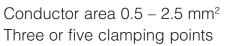
100 | Thorsman 11.2013 | Installation Material Schneider Felectric





Torix, T6, conductor area 0.5 – 6 mm² Torix, T16, conductor area 1.5 – 16 mm²

Push-in terminal



X

X



Twist wire connectors

Thorsman TORIX™,T6/T16





Description

TORIX T6 twist-on wire connector is intended for connection of all kinds and combinations of wire.

The connector is provided with a test hole at the top, making it easy to quickly test the connection with ordinary testing instruments.

Applications

TORIX T6 is approved for connection of all kinds of wire from $0.5\ mm^2$ co $12.5\ mm^2$.

Benefits

- · Test hole on top for quick and easy voltage testing
- Hexagon spanner flats for power screwdriver with 1/4" fitting
- Ergonomically shaped wings
- · No need to twist the stripped wires
- Can be screwed off and re-used on the same or a larger wire area
- · One product for all connections

Technical data

| Material | PA (polyamide) | | |
|------------------------|---|--|--|
| Approvals | For 440 V acc. to IEC standard 685-2-4 | | |
| | SEMKO, NEMKO, DEMKO, FIMKO (the Swedish, | | |
| Nor- | wegian, Danish and Finnish Electrical | | |
| Boards for Testing and | Approval of Electrical Equipment and Certification) | | |

Installation





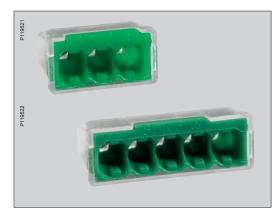
The wires are stripped about 15 mm and lined up. There is no need to twist them. $\,$

| Capacity | | | |
|----------|------------|--------------------|-------------------|
| Туре | Total area | Conductor area mm² | No. of conductors |
| TORIX T6 | 12.5 | 0.51) | 2–10 |
| | | 0.75 | 2–10 |
| | | 1.0 | 2–10 |
| | | 1.5 | 2–8 |
| | | 2.5 | 2–5 |
| | | 4.0 | 2–3 |
| | | 6.0 | 2 |

¹⁾ Not for 2x0.5 mm² RK.

| Range | | | | | | | | | |
|-------|---|--|-------------------------|--------------------|---------------|----------|--|--|--|
| | Туре | Colour | Dimensions A/B/C (mm) B | Qty per package | EAN code | Ref. No. | | | |
| | Twist-on connector | | | | | | | | |
| P4804 | Twist-on connector for the connection of all kinds and combinations of wire, area 0.5–12.5 mm ² . A test hole at the top of the connector ensures quick and easy testing of the connection with ordinary testing instruments. Material: PA. | | | | | | | | |
| | TORIX T6 | Red | 20/14/28 | 100 | 7315883000218 | 3000 210 | | | |
| | Twist-on connector, bulk | | | | | | | | |
| | Same as the above but in | Same as the above but in bulk package. | | | | | | | |
| | TORIX T6 | Red | 20/14/28 | 6000 | 7315883000225 | 3000 225 | | | |

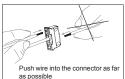
Push-in terminal



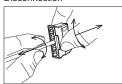
Wire stripping length



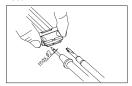




Disconnection



Test



Description

The Thorsman push-in terminals are intended for use as floating termination in most applications. They are very well adapted to high temperature ranges.

The terminals are certified for use with both European and American cable types. They have a large clamping range, 0.5–2.5 mm² for solid and 1.5–2.5 mm² for rigid stranded conductors. These sizes can also be used in the same terminal.

Applications

| FF | | | |
|-----------------------|---|----------------------|--|
| Clamping range | 0.5 mm ² – 2.5 mm ² | solid wires | |
| | 1.5 mm ² – 2.5 mm ² | rigid stranded wires | |
| | AWG 20 – 14 | | |
| Wire stripping length | 8 – 9 mm | | |
| Clamping points | 3 clamping points | IMT36344 | |
| | 5 clamping points | IMT36345 | |
| Voltage measurement | Hole for test equipment | | |
| | | | |

Benefits

- Fast installation
- High working temperature, approved for 90°C in Europe and 105°C in the US
- · Approvals for both European and American standards
- · With a test hole for easy voltage checking
- · Large clamping range
- Easy to plug in high pull-out force
- Highly transparent viewing window for visual inspection of the clamping points means greater safety and reliability during installation
- Mounting instruction printed on the package (three languages)

Technical and Material data

| Matarial | Harraina | DC (nalysauthanata) |
|--------------------------|-------------------|---------------------|
| Material | Housing | PC (polycarbonate) |
| | Cover | PA (polyamide) |
| | Insert | Copper |
| | Spring | Stainless steel |
| Colour spec. | Green | RAL 6024-HR |
| Nominal voltage | Europe | 450 V |
| | USA | 600 V |
| Nominal current | Europe | 24 A |
| | USA | 33 A |
| Max. ambient temperature | Europe | +90°C |
| | USA | +105°C |
| Degree of protection | IP20 | |
| Approvals | VDE, UL, ENEC, ÖV | E . |

| Rang | je | | | | | | | | |
|---------|-----|---|--------|-----------------------|-----------------|---------------|----------|--|--|
| | | Туре | Colour | Dimensions A/B/C (mm) | Qty per package | EAN code | Ref. No. | | |
| | | Push-in terminal with three or five entries, approved for an ambient temperature of 90°C in Europe and 105°C in the US. The product is UL-approved. Material: PC, PA, copper, stainless steel. | | | | | | | |
| P119521 | MAC | With three entries | Green | 8.9/15.7/17.2 | 100 | 3606480199479 | IMT36344 | | |
| P119522 | - | With five entries | Green | 8.9/15.7/26 | 100 | 3606480199486 | IMT36345 | | |

Reference number overview

| 1200.005 | 2042.044 44 | 2100.042 | 2260.045 47 | 2704 024 |
|----------------------------|-------------|-------------|-------------|----------------------------|
| 1200 005 61 | 2042 041 | 2190 043 | 2369 015 | 2704 021 |
| 1200 023 61 1200 203 61 | 2042 042 | 2190 044 | 2369 200 | 2705 110 |
| 1200 203 61 | 2042 711 | 2190 051 | 2369 231 | 2705 320 |
| | 2043 016 | | 2369 262 | |
| 1200 401 61 1200 412 61 | 2043 032 41 | 2190 053 | 2369 310 47 | 2705 420 |
| | 2045 012 41 | 2191 000 | 2371 011 | 2741 015 |
| 1200 443 61 1206 028 64 | | 2191 005 | 2371 013 | 3000 210 |
| 1220 010 66 | 2052 011 | 2191 010 | 2373 017 | 3000 225 |
| 1220 104 66 | 2052 025 41 | 2191 015 | 2373 020 | 3782 260 |
| 1220 120 66 | 2052 033 41 | 2191 020 | 2375 012 | 3782 265 |
| 1240 001 63 | 2052 051 41 | 2191 025 | 2377 018 | 781870 |
| 1240 704 63 | 2052 058 41 | 2191 030 | 2379 014 | 781871 |
| 1241 009 63 | 2052 066 | 2191 035 | 2380 004 | 781872 |
| 1244 003 63 | 2053 015 41 | 2191 040 | 2380 010 | 781873 |
| 1244 706 63 | 2053 031 41 | 2191 045 | 2380 053 47 | 100000921 |
| 1248 004 63 | 2060 002 | 2191 050 | 2380 060 | 100001721 |
| 1249 002 63 | 2060 028 41 | 2191 055 | 2380 110 | 100070822 |
| 1249 507 63 | 2060 135 41 | 2191 060 | 2380 152 47 | 100100721 |
| 1250 000 63 | 2060 143 41 | 2191 065 | 2390 400 | 100102321 |
| 1253 004 63 | 2070 001 | 2191 070 | 2390 401 | 100102521 |
| 1253 509 63 | 2070 027 42 | 2191 075 45 | 2390 405 | 1001700 |
| 1260 025 65 | 2070 134 | 2191 080 45 | 2390 406 | 1001809 |
| 1260 066 65 | 2070 142 42 | 2191 500 45 | 2390 410 | 1003003 |
| 1260 108 65 | 2070 209 42 | 2191 501 45 | 2390 415 55 | 1003011 |
| 1260 124 65 | 2070 217 | 2191 502 45 | 2390 416 | 100302021 |
| 1260 140 65 | 2101 004 | 2191 503 45 | 2390 420 | 100302921 |
| 1260 165 65 | 2101 015 | 2191 504 | 2390 425 | 100370622 |
| 1260 170 67 | 2106 003 42 | 2191 505 45 | 2390 426 | 100380522 |
| 1265 040 65 | 2106 706 43 | 2191 506 45 | 2390 430 55 | 100381522 |
| 1720 036 91 | 2106 720 43 | 2191 507 45 | 2390 435 55 | 1005008 21 |
| 1720 038 91 | 2106 994 | 2191 508 45 | 2390 475 55 | 1005016 21 |
| 1720 040 91 | 2106 995 | 2191 509 45 | 2390 476 56 | 1005800 |
| 1772 052 91 | 2111 003 42 | 2191 510 45 | 2390 480 55 | 1006808 |
| 1772 054 91 | 2111 011 | 2191 511 45 | 2390 481 56 | 1007806 |
| 1772 056 91 | 2116 010 42 | 2191 512 45 | 2390 485 55 | 105100728 |
| 1772 058 91 | 2116 028 42 | 2191 513 45 | 2390 486 56 | 1052004 28 |
| 1772 120 92 | 2116 192 43 | 2191 514 45 | 2390 490 55 | 114000327 |
| 1772 125 92 | 2121 204 43 | 2201 090 | 2390 500 55 | 114100127 |
| 2001 008 41 | 2126 019 42 | 2203 080 | 2390 505 55 | 114935026 |
| 2011 005 41 | 2126 027 | 2205 070 | 2390 510 55 | 114960826 |
| 2011 017 41 | 2126 711 | 2205 080 | 2390 511 | 1149707 |
| 2011 021 | 2131 010 | 2206 080 | 2390 515 55 | 1150002 |
| 2011 030 | 2131 019 | 2206 090 | 2390 520 | 1150051 |
| 2011 208 | 2131 027 | 2230 972 | 2390 521 | 1788868A90 |
| 2015 105 41 | 2131 036 | 2240 04 | 2390 530 | 1788926A |
| 2015 110 | 2136 010 | 2240 050 | 2390 530 | 1788975A 90 |
| 2021 004 | 2136 026 | 2240 065 | 2390 535 | 1788989A 90 |
| 2021 012 41 | 2137 014 | 2240 085 | 2390 540 | 1789016A90 |
| 2021 020 41 | 2141 026 | 2240 090 | 2390 541 | 1789023A 90 |
| 2021 046 41 | 2146 025 | 2240 105 | 2390 545 | 1789028A90 |
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