

SPAX CONCRETE SCREWS CATALOGUE





SPAX DESIGN SOFTWARE FOR CONCRETE SCREWS

PLANNING AND DESIGN

The SPAX design software for concrete screws offers optimised solutions and reliable results. Which concrete screw is right for my project? Our design software provides a quick and efficient answer to this question. The intuitive programme not only allows you to customise your project – it also takes into account characteristic loads, seismic loads and fire loads. Furthermore, the software complies with all current standards, ETAs and Eurocode guidelines.

Further benefits:

FAST AND EFFICIENT DESIGN

Based on the data entered, the SPAX design software for concrete screws selects the ideal fastening solution, thereby making the planner's job easier with just a few clicks.

Nothing is more outdated than yesterday's software – so automatic online updates ensure that you can always work with the latest version.

Click here to download the software:

<https://www.spax.com/concrete-screws>

Before you begin: Please note that a one-time registration and local installation are required to use the software.

ALWAYS UP TO DATE



THE SPAX RANGE OF CONCRETE SCREWS

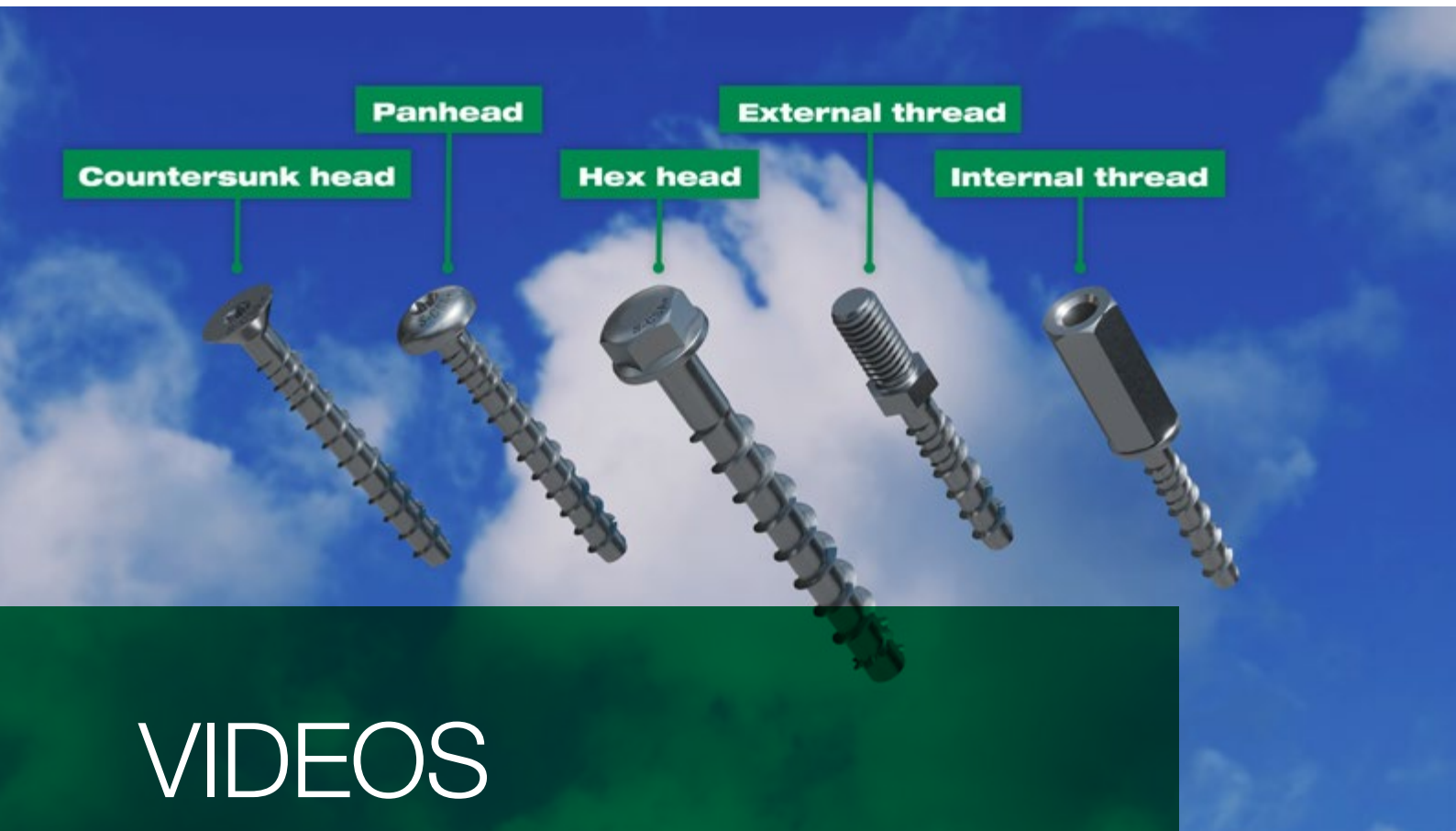
What are concrete screws used for? Concrete screws are the ideal choice for quick, secure and cost-effective fastening directly into concrete.

At SPAX, we offer concrete screws with 5 different head shapes: hexagon with washer, countersunk, round head, and internal and external threaded connections. Naturally, the screws are approved in accordance with ETA 25/1160 and ETA 25/1162 for use in cracked and non-cracked concrete, as well as for multiple fastenings (e.g. of cable ducts).

Our concrete screws offer fire resistance of up to 120 minutes and are approved in Germany for the fixing of sprinkler systems.

Furthermore, they can be used in seismic performance categories C1 and C2 and, thanks to expansion-pressure-free anchoring, ensure minimal edge and centre distances. Another practical advantage: thanks to different embedment depths, the same screw can be used for different attachment part thicknesses.

Galvanised concrete screws of the SPAX-CSA+ type are suitable for use in dry indoor environments. The Spax-CSA A4 stainless steel concrete screws are manufactured from high-quality A4 stainless steel and are suitable for both indoor and weather-exposed outdoor use.



COUNTERSUNK HEAD



PANHEAD



HEX HEAD



EXTERNAL THREAD



INTERNAL THREAD



APPROVALS

SIMPLE FIXING, GALVANISED

ETA-25/1162



MULTI-POINT FIXING, GALVANISED

ETA-25/1160



SPAX CONCRETE SCREW

FEATURES AND BENEFITS

HEXAGONAL WASHER

It couldn't be simpler. Thanks to the unique head design and the large washer, fitting an attachment is a breeze.

THREAD GEOMETRY

It pays off. Thanks to the special thread geometry, the threads cut deep into the concrete, providing maximum load-bearing capacity. The result? Fewer fixing points with smaller anchor plates, and therefore lower costs.

TIP GEOMETRY

The special tip design ensures easy and secure installation.



HEAD SHAPES

THE IDEAL SCREW FOR EVERY PROJECT. SPAX CONCRETE SCREWS ARE AVAILABLE IN A RANGE OF HEAD SHAPES FOR OPTIMAL ADAPTATION AND MAXIMUM FLEXIBILITY IN USE.



SPAX CONCRETE SCREW WITH HEXAGONAL WASHER

No problem. The hexagon screw head with a pressed-on washer ensures that every through-hole connection holds perfectly every time. A stainless steel A4 version will also be available soon.



SPAX CONCRETE SCREW WITH COUNTERSUNK HEAD

Top marks. The special angle at the base of the head increases the stability of the concrete screw as soon as it is screwed in, whilst the countersunk head ensures a clean finish with no sharp edges. Also available soon in a stainless steel A4 version.



SPAX CONCRETE SCREW WITH PANHEAD

The all-rounder. Pipes, rails, ventilation ducts or building services systems – this version of the concrete screw with a round head (pan head) holds everything together. Also available soon in a stainless steel A4 version.



SPAX CONCRETE SCREW WITH INTERNAL THREAD

True flexibility comes from within. Our concrete screw with stepped thread is ideal for a wide range of applications involving threaded rods and connectors. It is available with M8 and M10 internal threads for the direct installation of pipe clamps.

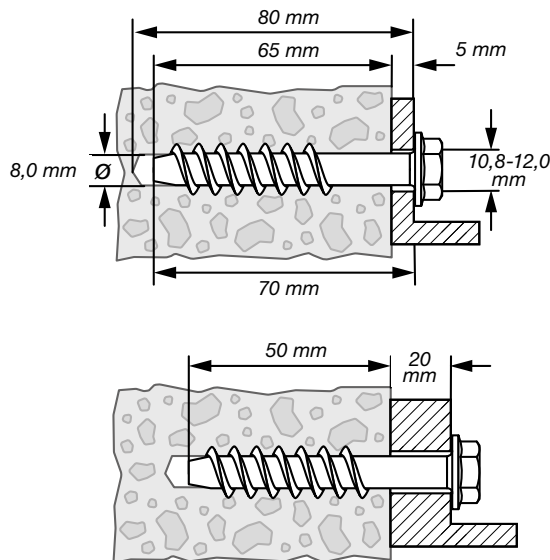


SPAX CONCRETE SCREW WITH EXTERNAL THREAD

Simply hang it up. The galvanised steel hanger bolt is the perfect fixing solution for pipe runs, single-pipe suspensions or suspended mounting rails in building services.

VARIABLE ANCHORING DEPTHS

SPAX CONCRETE SCREWS WITH DIFFERENT ANCHOR DEPTHS ALLOW FOR FLEXIBLE ADAPTATION TO SPECIFIC APPLICATIONS.



MAXIMUM LOAD FOR STANDARD EMBEDMENT DEPTH (IN ACCORDANCE WITH ETA-25/1162)

e.g. S-CSA+ HW 8x70 in undamaged concrete

- The standard embedment depth is 65 mm
- The permissible design tensile load for $h_{nom} \geq 65$ mm is 12.27 kN

QUICK INSTALLATION THANKS TO REDUCED ANCHORING DEPTH (IN ACCORDANCE WITH ETA-25/1162)

e.g. S-CSA+ HW 8x70 in undamaged concrete

- The reduced embedment depth is 50 mm
- The permissible design value for tensile load with $h_{nom} = 50$ mm is 8.07 kN

INDOOR APPLICATIONS

- Railings & handrails
- Shelving systems
- Public seating
- Brackets and cable trays
- Temporary fixings, e.g. scaffolding or diagonal braces

SUITABLE SUBSTRATES FOR FIXING

- Cracked concrete C20/25 to C50/60
- Non-cracked concrete C20/25 to C50/60
- Reinforced concrete
- Non-reinforced concrete



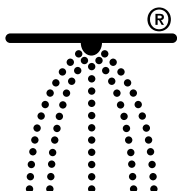
TEST MARK



ETA-25/1162
(Option 1)

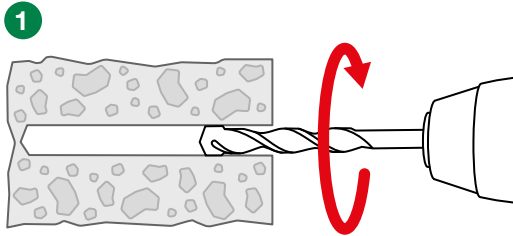


ETA-25/1160
(Part 6)

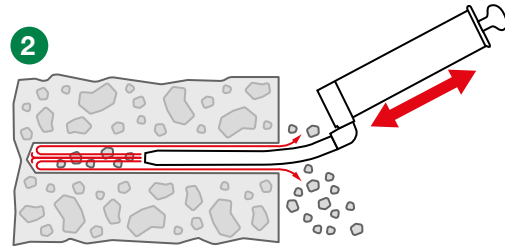


INSTALLATION

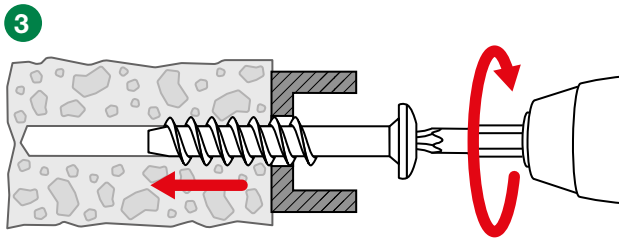
USING AN IMPACT WRENCH OR TORQUE WRENCH (PLEASE NOTE: OBSERVE THE MAXIMUM TORQUE)



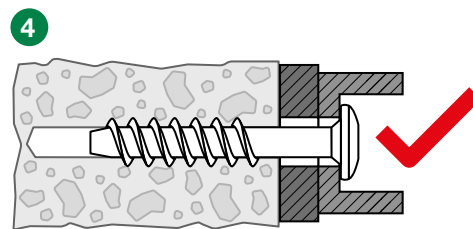
First, drill a pilot hole using the appropriate drill bit



Cleaning the borehole

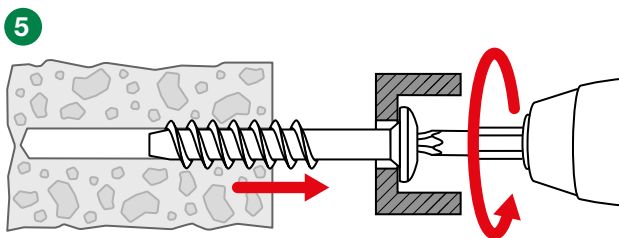


Now screw in the concrete screw

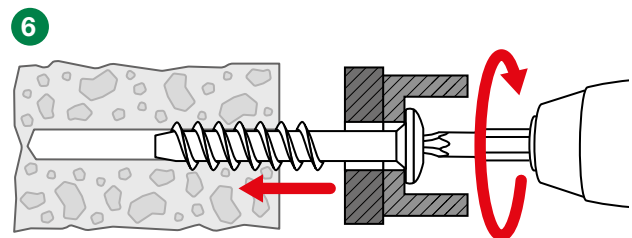


Done!

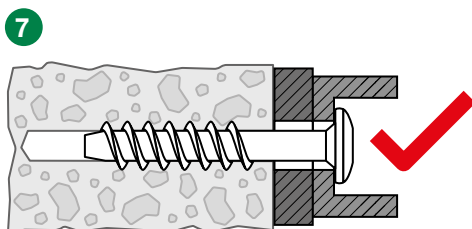
RETROSPECTIVE ADJUSTMENT OF ATTACHMENT



Loosen the concrete screw
(up to twice, max. 10 mm in total)



Place the attachment underneath and
screw in the concrete screw



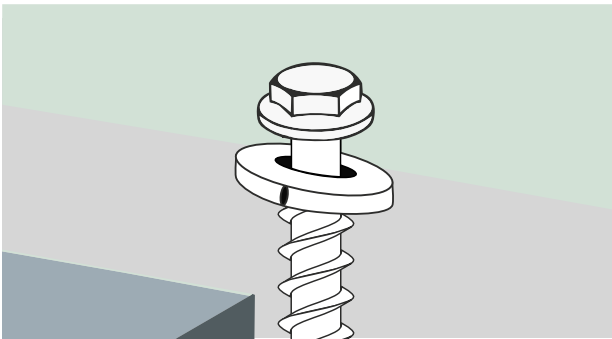
Done!

FILLER DISC

SPAX concrete screws with hexagonal head and washer (S-CSA+ HW) can also be used in areas subject to seismic performance category C2 requirements in accordance with ETA-25/1162.

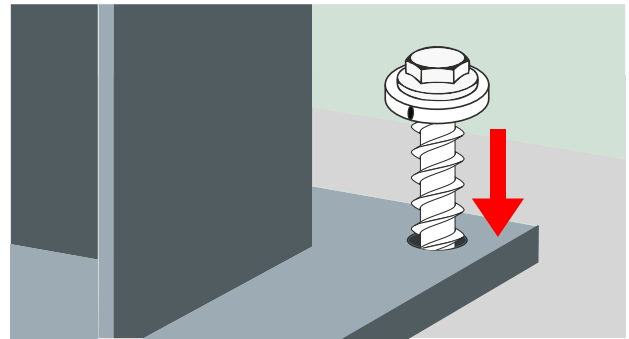
In such cases, a suitable back-fill washer and a suitable mortar with a compressive strength of $\geq 50 \text{ N/mm}^2$ must be used.

Please note that the thickness of the Tfix mounting bracket is reduced by the thickness of the back-up washer.



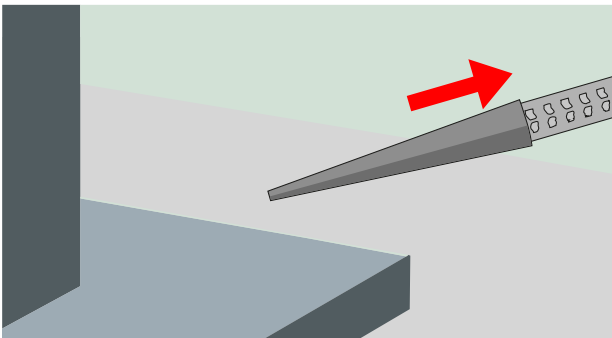
FILLER DISC

1. Fit the appropriate filler washer in addition to the SPAX concrete screw.



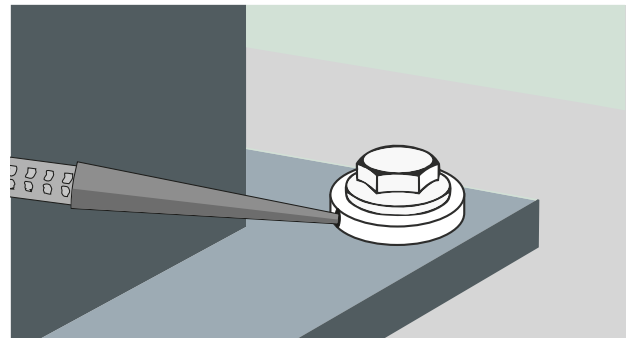
INSTALLATION

2. The SPAX concrete screw is screwed in together with the back-up washer until the recommended anchoring depth h_{nom} is reached.



MATERIAL

3. Fit the mixing reducer tip onto the static mixing nozzle. If necessary, adhesive tape may be used.



INSTALLATION

4. Fill the annular gap between the SPAX concrete screw and the attachment part through the hole in the grouting disc until mortar oozes out of this hole.

Please follow the installation instructions for the grouting mortar. The load must not be applied until the grouting mortar has fully cured.

SPAX ENVIRONMENTAL PRODUCT DECLARATION

SUSTAINABILITY BECOMES MEASURABLE

Sustainable construction requires reliable and comparable data. With our verified **Environmental Product Declarations** (EPD), SPAX brings transparency to fastening technology.

The EPD documents the entire life cycle of our concrete screws – from raw material extraction through production and transport to use and disposal – and complies with international standards. It thus provides a sound basis for sustainable planning and building certifications such as DGNB, LEED or BREEAM. Our life cycle assessments show that, compared to the market average, SPAX achieves particularly low CO₂ emissions – **measurable, traceable and independently verified**. For you, this means transparent sustainability data, planning reliability and verifiable benefits for your projects. SPAX reveals what was previously hidden – the environmental impact of every screw.

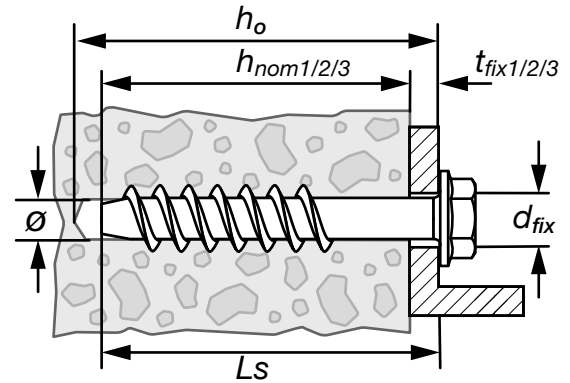


SPAX Concrete screw S-CSA+ HW / xSCSAHW

Galvanised steel

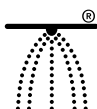
ETA-25/1162

for fixings in cracked and non-cracked concrete



Borehole- Ø [mm]	Dimensions [mm]				Option 1						SPAX Number	EAN-Code Packaging unit VPE 4003530...
	Length Ls [mm]	Hole depth ho [mm]	Drive	Torque max [Nm]	hnom 1	tfix 1	hnom 2	tfix 2	hnom 3	tfix 3		
6,0 dfix = 7,7-9,0 mm	35	45	SW 13	90	*	*	*	*	*	*	1881010600355	296024
	45	55	SW 13	90	40	5	-	-	-	-	1881010600455	296031
	50	60	SW 13	90	40	10	-	-	-	-	1881010600505	296048
	60	70	SW 13	90	40	20	55	5	-	-	1881010600605	296055
	70	80	SW 13	90	40	30	55	15	-	-	1881010600705	296062
	80	90	SW 13	90	40	40	55	25	-	-	1881010600805	296079
8,0 dfix = 10,8-12,0 mm	55	65	SW 13	290	50	5	-	-	-	-	1881010800555	296116
	70	80	SW 13	290	50	20	65	5	-	-	1881010800705	296123
	80	90	SW 13	290	50	30	65	15	-	-	1881010800805	296130
	90	100	SW 13	290	50	40	65	25	-	-	1881010800905	296147
	100	110	SW 13	290	50	50	65	35	-	-	1881010801005	296154
	120	130	SW 13	290	50	70	65	55	-	-	1881010801205	296161
	140	150	SW 13	290	50	90	65	75	-	-	1881010801405	296178
10,0 dfix = 13-14 mm	60	70	SW 15	650	55	5	-	-	-	-	1881011000605	296185
	70	80	SW 15	650	55	15	-	-	-	-	1881011000705	296192
	80	90	SW 15	650	55	25	70	10	-	-	1881011000805	296208
	90	100	SW 15	650	55	35	70	20	85	5	1881011000905	296215
	100	110	SW 15	650	55	45	70	45	85	15	1881011001005	296222
	120	130	SW 15	650	55	65	70	65	85	35	1881011001205	296239
	140	150	SW 15	650	55	85	70	85	85	55	1881011001405	296246
	160	170	SW 15	650	55	105	70	105	85	75	1881011001605	296253
14,0 dfix = 17-18 mm	75	85	SW 21	650	65	10	-	-	-	-	1881011400755	296260
	100	110	SW 21	650	65	35	85	15	-	-	1881011401005	296277
	130	140	SW 21	650	65	65	85	45	115	15	1881011401305	296284
	150	160	SW 21	650	65	85	85	65	115	35	1881011401505	296291

* This size is not included in the ETA



ETA-25/1162



SPAX Concrete screw S-CSA+ HW / xSCSAHW

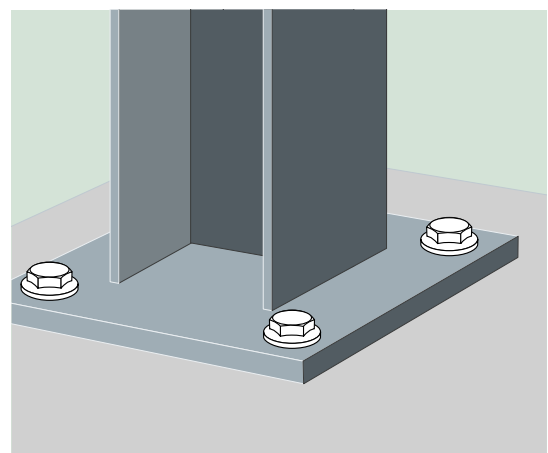
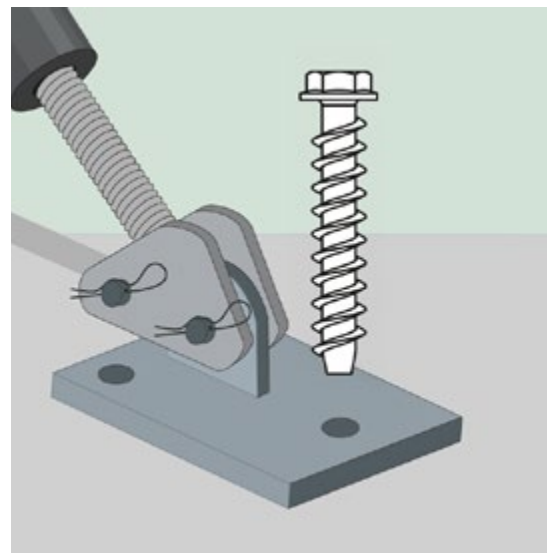
Galvanised steel

ETA-25/1160

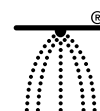
Multiple fastening for non-load-bearing applications in concrete

Part 6				Contents per VPE pcs.	SPAX Designcode
hnom 1	tfix 1	hnom 2	tfix 2		
35	1	-	-	100	xSCSAHW635
35	10	40	5	100	xSCSAHW645
35	15	40	10	100	xSCSAHW650
35	25	40	20	100	xSCSAHW660
35	35	40	30	100	xSCSAHW670
35	45	40	40	100	xSCSAHW680
*	*	*	*	100	xSCSAHW855
*	*	*	*	50	xSCSAHW870
*	*	*	*	50	xSCSAHW880
*	*	*	*	50	xSCSAHW890
*	*	*	*	50	xSCSAHW8100
*	*	*	*	25	xSCSAHW8120
*	*	*	*	25	xSCSAHW8140
*	*	*	*	50	xSCSAHW1060
*	*	*	*	25	xSCSAHW1070
*	*	*	*	25	xSCSAHW1080
*	*	*	*	25	xSCSAHW1090
*	*	*	*	25	xSCSAHW10100
*	*	*	*	25	xSCSAHW10120
*	*	*	*	25	xSCSAHW10140
*	*	*	*	25	xSCSAHW10160
*	*	*	*	20	xSCSAHW1475
*	*	*	*	10	xSCSAHW14100
*	*	*	*	10	xSCSAHW14130
*	*	*	*	10	xSCSAHW14150

* This size is not included in the ETA



ETA-25/1160

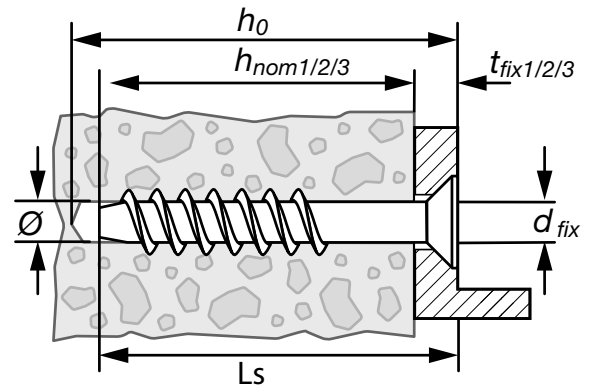


SPAX Concrete screw S-CSA+ CS / xSCSACF

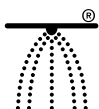
Galvanised steel

ETA-25/1162

for fixings in cracked and non-cracked concrete



Borehole- $\varnothing$ [mm]	Dimensions [mm]				Option 1						SPAX Number	EAN-Code Packaging unit VPE 4003530...
	Length L_s [mm]	Hole depth h_0 [mm]	Drive	Torque max [Nm]	hnom 1	tfix 1	hnom 2	tfix 2	hnom 3	tfix 3		
6,0 $d_{fix} =$ 7,7-9,0 mm	45	55	T30	90	40	5	-	-	-	-	1871010600455	296321
	50	60	T30	90	40	10	-	-	-	-	1871010600505	296338
	60	70	T30	90	40	20	55	5	-	-	1871010600605	296345
	80	90	T30	90	40	40	55	25	-	-	1871010600805	296352
	100	110	T30	90	40	60	55	45	-	-	1871010601005	296369
	120	130	T30	90	40	80	55	65	-	-	1871010601205	296376
8,0 $d_{fix} =$ 10,8-12,0 mm	60	70	T45	290	50	10	-	-	-	-	1871010800605	296383
	80	90	T45	290	50	30	65	15	-	-	1871010800805	296390
	100	110	T45	290	50	50	65	35	-	-	1871010801005	296406
10,0 $d_{fix} =$ 13-14 mm	70	80	T50	650	55	15	-	-	-	-	1871011000705	296819
	90	100	T50	650	55	35	70	20	85	5	1871011000905	296826
	100	110	T50	650	55	45	70	30	85	15	1871011001005	296833
	120	130	T50	650	55	65	70	50	85	35	1871011001205	296840



ETA-25/1162



SPAX Concrete screw S-CSA+ CS / xSCSACF

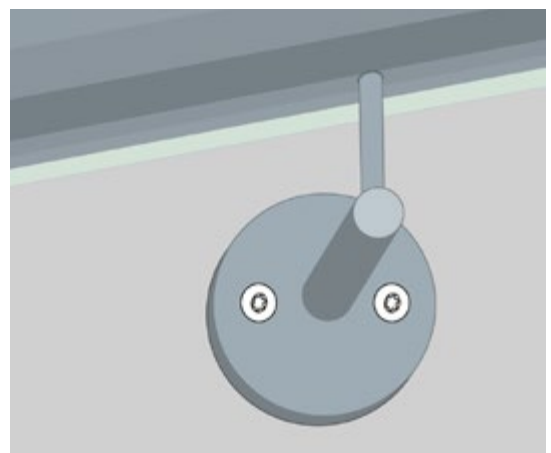
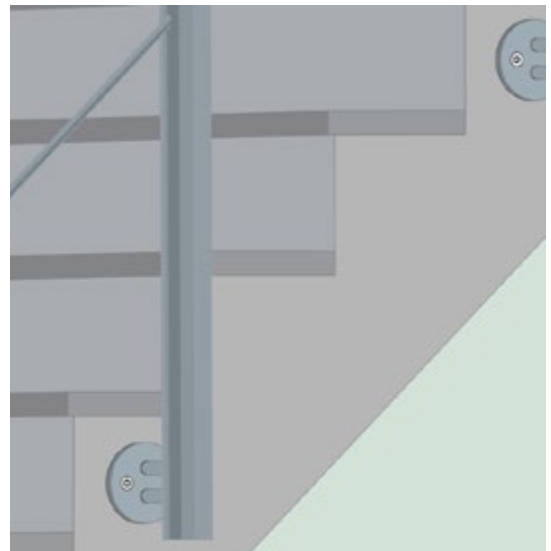
Galvanised steel

ETA-25/1160

Multiple fastening for non-load-bearing applications in concrete

Part 6				Contents per VPE pcs.	SPAX Designcode
hnom 1	tfix 1	hnom 2	tfix 2		
35	10	40	5	100	xSCSACF645
35	15	40	10	100	xSCSACF650
35	25	40	20	100	xSCSACF660
35	45	40	40	100	xSCSACF680
35	65	40	60	100	xSCSACF6100
35	85	40	80	100	xSCSACF6120
*	*	*	*	100	xSCSACF860
*	*	*	*	100	xSCSACF880
*	*	*	*	100	xSCSACF8100
*	*	*	*	50	xSCSACF1070
*	*	*	*	50	xSCSACF1090
*	*	*	*	50	xSCSACF10100
*	*	*	*	50	xSCSACF10120

* This size is not included in the ETA

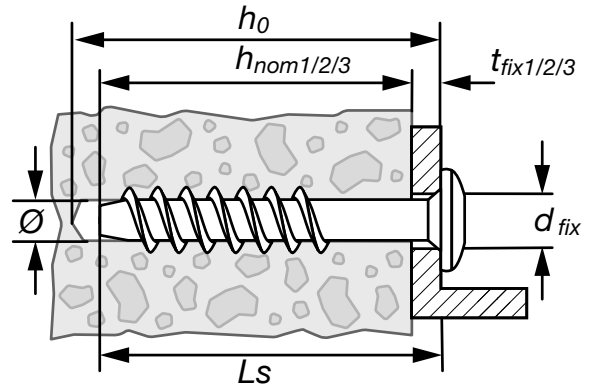


SPAX Concrete screw S-CSA+ PH / xSCSAPL

Galvanised steel

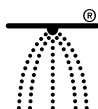
ETA-25/1162

for fixings in cracked and non-cracked concrete



Dimensions [mm]					Option 1						SPAX Number	EAN-Code Packaging unit VPE 4003530...
Borehole- $\varnothing$ [mm]	Length Ls [mm]	Hole depth ho [mm]	Drive	Torque max [Nm]	hnom 1	tfix 1	hnom 2	tfix 2	hnom 3	tfix 3		
6,0 dfix = 7,7-9,0 mm	35	45	T30	90	*	*	*	*	*	*	1711010600355	296468
	45	55	T30	90	40	5	-	-	-	-	1711010600455	296475
	60	70	T30	90	40	20	55	5	-	-	1711010600605	296482

* This size is not included in the ETA



ETA-25/1162



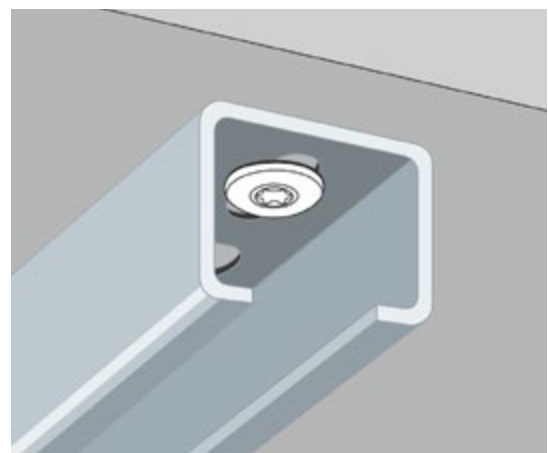
SPAX Concrete screw S-CSA+ PH / xSCSAPL

Galvanised steel

ETA-25/1160

Multiple fastening for non-load-bearing applications in concrete

Part 6				Contents per VPE pcs.	SPAX Designcode
hnom 1	tfix 1	hnom 2	tfix 2		
35	1	-	-	100	xSCSAPL635
35	10	40	5	100	xSCSAPL645
35	25	40	20	100	xSCSAPL660

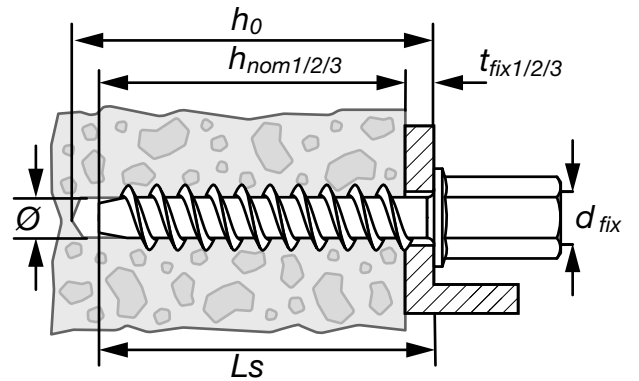


SPAX Concrete screw S-CSA+ IT / xSCSAMI

Galvanised steel

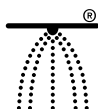
ETA-25/1162

for fixings in cracked and non-cracked concrete



Dimensions [mm]					Option 1						SPAX Number	EAN-Code Packaging unit VPE 4003530...
Borehole- Ø [mm]	Length Ls [mm]	Hole depth h0 [mm]	Drive	Torque max [Nm]	hnom 1	tfix 1	hnom 2	tfix 2	hnom 3	tfix 3		
6,0 dfix = 7,7-9,0 mm	35	45	SW 13	90	*	*	*	*	*	*	1841010600355	296437
	45	55	SW 13	90	40	5	-	-	-	-	1841010600455	296444
	60	70	SW 13	90	40	20	55	5	-	-	1841010600605	296451

* This size is not included in the ETA



ETA-25/1162



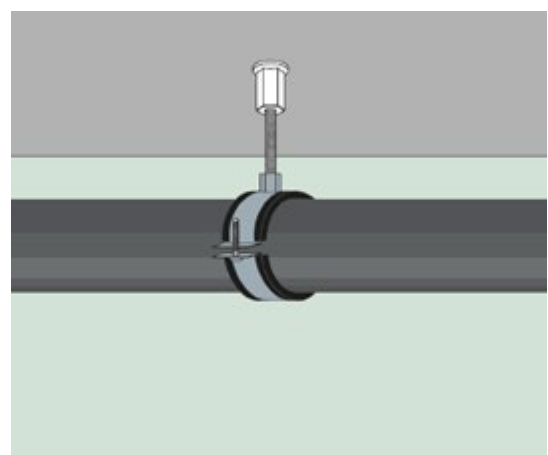
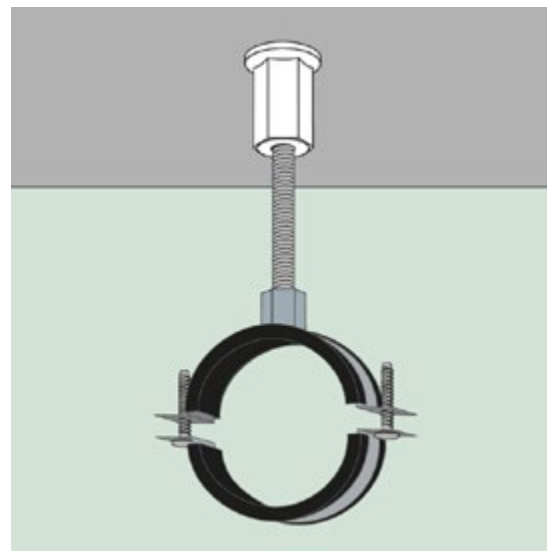
SPAX Concrete screw S-CSA+ IT / xSCSAMI

Galvanised steel

ETA-25/1160

Multiple fastening for non-load-bearing applications in concrete

Part 6				Contents per VPE pcs.	SPAX Designcode
hnom 1	tfix 1	hnom 2	tfix 2		
35	0	-	-	100	xSCSAMI635
35	10	40	5	100	xSCSAMI645
35	25	40	20	100	xSCSAMI660

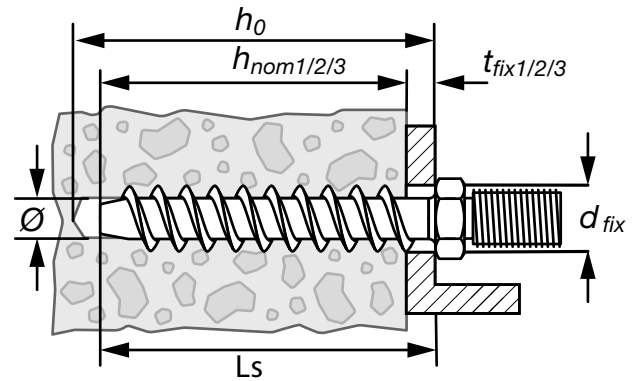


SPAX Concrete screw S-CSA+ ET / xSCSAME

Galvanised steel

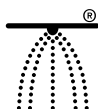
ETA-25/1162

for fixings in cracked and non-cracked concrete



Dimensions [mm]					Option 1						SPAX Number	EAN-Code Packaging unit VPE 4003530...
Borehole- Ø [mm]	Length Ls [mm]	Hole depth h0 [mm]	Drive	Torque max [Nm]	hnom 1	tfix 1	hnom 2	tfix 2	hnom 3	tfix 3		
6,0 dfix = 7,7-9,0 mm	35	45	SW 10	90	*	*	*	*	*	*	1861010600355	296413
	60	70	SW 10	90	40	20	55	5	-	-	1861010600605	296420

* This size is not included in the ETA



ETA-25/1162



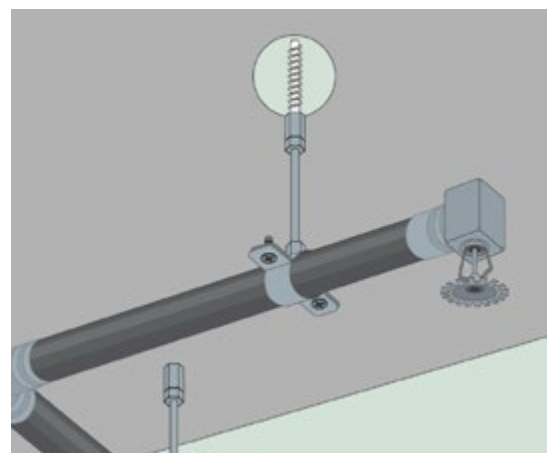
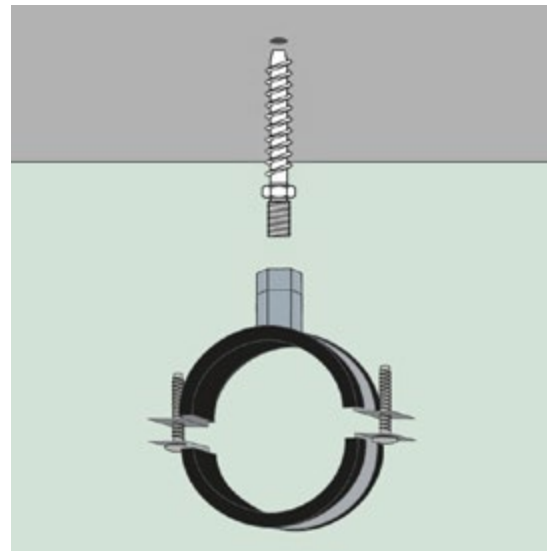
SPAX Concrete screw S-CSA+ ET / xSCSAME

Galvanised steel

ETA-25/1160

Multiple fastening for non-load-bearing applications in concrete

Part 6				Contents per VPE pcs.	SPAX Designcode
hnom 1	tfix 1	hnom 2	tfix 2		
35	0	-	-	100	xSCSAME635
35	25	40	20	100	xSCSAME660



Concrete screw

Basics

Selection of a concrete screw

The SPAX concrete screw enables secure and quick anchoring in concrete

When determining the correct dimensions, there are a few details to bear in mind

Example of use:

A base plate, 5 mm thick, is to be fixed to concrete.

The plate is to be anchored using a SPAX concrete screw with a hexagonal washer (**S-CSA+ HW**).

The anchorage is to be installed in cracked concrete with a tensile load (design load) of 5.0 kN and as a single fastening.

The edge distance should be 100 mm.

Procedure:

- 1** Based on the existing load, a bolt is selected for cracked or uncracked concrete. Furthermore, the diameter and head shape are determined = **S-CSA+ HW**
- 2** The length of the screw must be at least equal to the sum of the thickness of the component to be fastened and the required anchorage depth.
 - The screw length is at least 5 mm (thickness of the mounting part) + 65 mm (nominal anchorage depth) = **70 mm**
 - Possible screw: **S-CSA+ HW 8x70**
- 3** Determining the drill diameter and the specified borehole depth
 - Pilot hole diameter = **8 mm**
 - Borehole depth = **75 mm**
(= Screw length – thickness of the mounting part + 10 mm)
- 4** The base plate is pre-drilled to **12 mm**
- 5** When marking out the drill holes, the minimum edge distances, the centre-to-centre distances and the minimum thickness of the concrete element must be taken into account.
 - The margin is min. $1,5 \times h_{nom} = \mathbf{77,9\ mm}$ ($c \geq 1,5\ hef$)
 - The concrete component must be at least **115 mm** thick.

Please note:

- Different loads apply for fire protection requirements; see ETA-25/1162, Table C5
- Different screw-in depths apply for seismic loads; see ETA-25/1162, Tables C11 and C12
- For calculations, we recommend using the SPAX Design Software for concrete screws.

Concrete screw

Basics

Technical specifications of **ETA-25/1162** for single-point fixing without seismic or fire loads

	S-CSA+ HW 6		S-CSA+ HW 8		S-CSA+ HW 10		S-CSA+ HW 14	
	h nom,1	h nom,2	h nom,1	h nom,2	h nom,1	h nom,2	h nom,1	h nom,2
h nom, [mm]	40	55	50	65	55	70	65	85
d [mm]	6		8		10		14	
h ≥ [mm]	50	65	60	75	65	80	75	95
h ef [mm]	29,8	42,5	39,2	51,9	42,5	55,3	49,3	66,3
d ≥ [mm]	7,7-9,0		12		13,0-14,0		17,0-18,0	
N zul ₁ [kN]	2,33	3,20	4,53	8,35	5,27	6,87	6,0	11,07
N zul ₂ [kN]	4,7	6,5	8,05	12,26	9,1	13,5	11,4	17,7
V zul ₁ [kN]	7,52	7,52	15,28	15,28	19,08	25,44	26,22	40,9
V zul ₂ [kN]	7,52	7,52	15,28	15,28	25,44	25,44	37,46	48,88
h min [mm]	80	95	100	115	100	115	120	140
c min [mm]	35		35		40		60	
s min [mm]	35		35		40		60	

<i>h nom, [mm]</i>	Screw-in depth
<i>d [mm]</i>	Drill hole diameter
<i>h ≥ [mm]</i>	Drill hole depth
<i>h ef [mm]</i>	Effective anchorage depth
<i>d ≥ [mm]</i>	Through-hole in the component to be connected
<i>N zul₁ [kN]</i>	Tensile load in cracked concrete (design load)
<i>N zul₂ [kN]</i>	Tensile load in undamaged concrete (design load)
<i>V zul₁ [kN]</i>	Shear load in cracked concrete (design load)
<i>V zul₂ [kN]</i>	Shear load in undamaged concrete (design load)
<i>h min [mm]</i>	Minimum component thickness
<i>c min [mm]</i>	Min. edge distance
<i>s min [mm]</i>	Min. spacing between anchors



SPAX CONCRETE DRILL

WITH SDS PLUS

FOR SPAX CONCRETE SCREWS

The concrete drill bits are perfectly matched to SPAX concrete screws in terms of length and diameter.

CONCRETE DRILL

The SPAX concrete drill with SDS Plus holder unites rapid drilling with a long service life.

- Ideal for reinforced concrete
- With symmetrical 4-bladed geometry
- The centre point enables ultra-precise drilling
- PGM certification guarantees accurate drill hole creation

SPAX concrete drill, 4-bladed with SDS PLUS



Dimensions [mm]			Numbers of blades	SPAX number	EAN code
Total length [mm]	Drilling diameter [mm]	Working length [mm]			
160	5	95	4	5000205001600	4003530279881
	6	95	4	5000206001600	4003530279898
	8	95	4	5000208001600	4003530279904
	10	95	4	5000210001600	4003530279911
	12	85	4	5000212001600	4003530279928
260	6	190	4	5000206002600	4003530279935
	8	190	4	5000208002600	4003530279942
	10	190	4	5000210002600	4003530279959
	12	185	4	5000212002600	4003530279966
	14	182	4	5000214002600	4003530279973

SPAX WOOD CONNECTORS

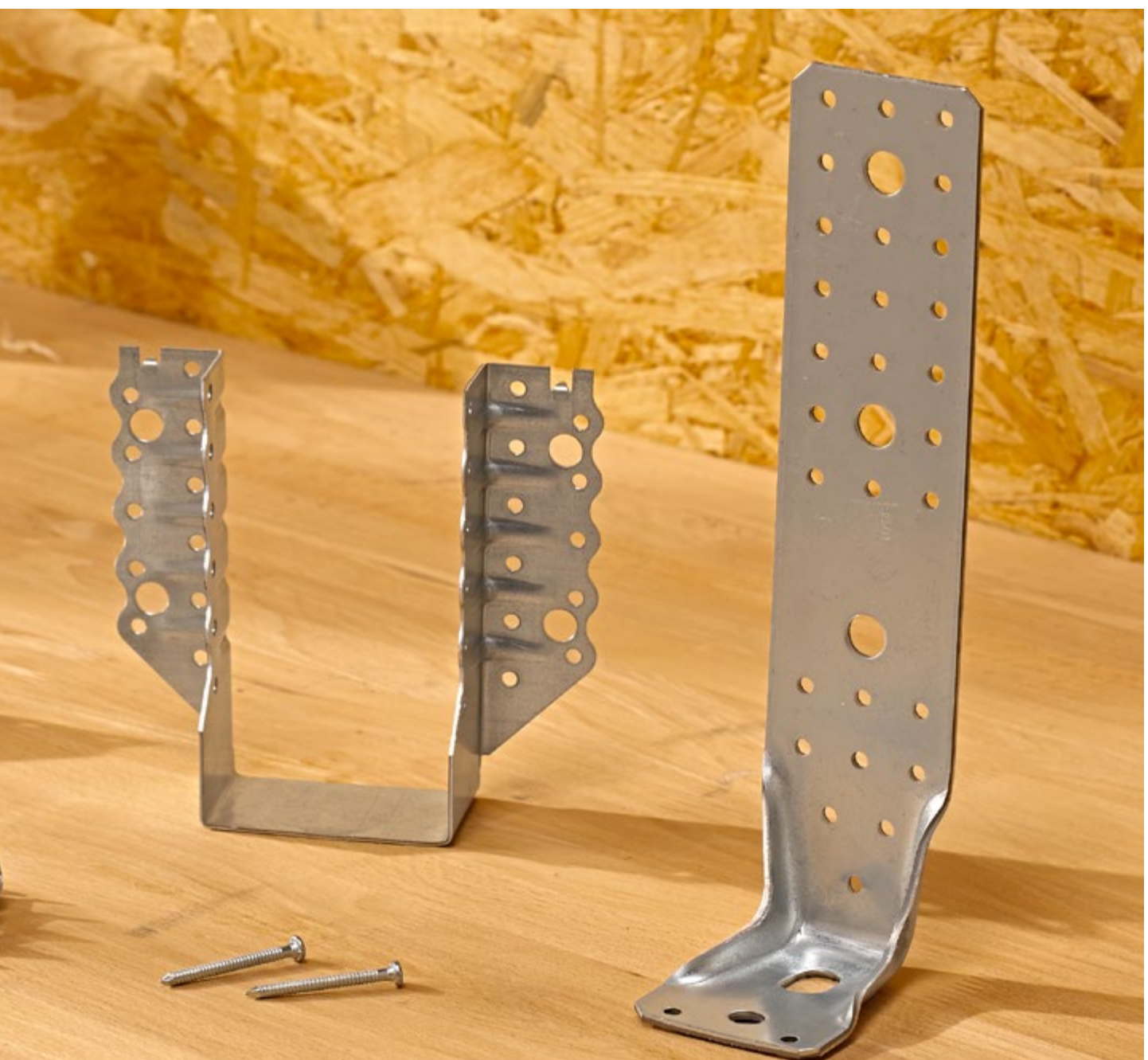
We have now expanded our extensive and well-established range of fasteners to include a new category of timber connectors, thereby adding another range to our product portfolio – Click here to view our timber connector catalogue:



Beam shoes, rafter-purlin anchors, tie rods and the like offer many advantages, particularly when joining timber to steel or concrete.

With our range of timber connectors, we offer you the perfect fastening solution for every challenge you face on a daily basis on the construction site – all from a single source.

With SPAX, you're prepared for any eventuality – with our timber construction screws and our innovative range of timber connectors.



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