



SPAX

SOLAR FASTENING

BROCHURE



MADE IN

GERMANY



SPAX SOLAR FASTENING

SPAX universal and wood construction screws made of A2 stainless steel – the solution for fastening PV systems with rafter insulation. Installation can be carried out directly in the counter batten; the roof load only needs to be increased by the weight of the PV system (approx. 0.2kN) when calculating the rafter insulation.

Additional shear loads can be transferred by using inclined partial thread screws (shear screws with an inclination of 67°). In combination with the serrations, the *4CUT* point effectively prevents splitting of the counter battens.

What makes SPAX different from other screws?

T-STAR *plus*

Positive and secure fit of the BIT and better driving, eg. when working overhead.



For the assembly of solar panel hooks on rafter-insulated roofs

For all rafter insulation systems

Authorised and monitored product, CE identification

Washer head: enlarged clamping surface thanks to large washer head

MULTI-HEAD

Flush countersinking. Cuts through wood and stops on metal.



SOLAR HOOK FASTENING



4CUT

Starting at screw lengths of 160 mm, the special moulding at the end of the partial thread significantly reduces the screwing-in torque.



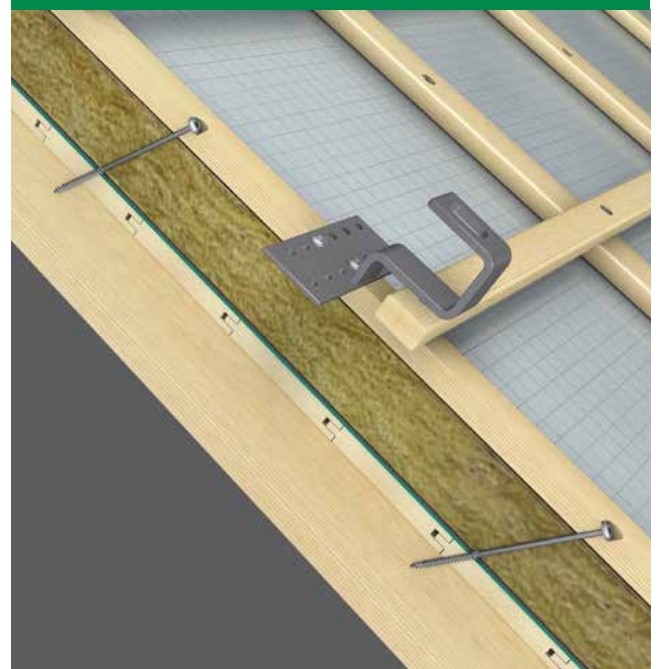
SERRATIONS

Our patented thread with ground serrations ensures rapid and effective fastening.

The serrations cut through the fibres of the material faster than a smooth thread.



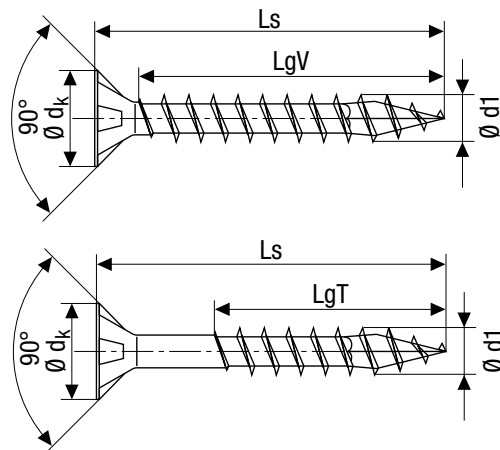
RAFTER INSULATION SYSTEM



4CUT POINT

No pre-drilling (wood dependent), its point effectively reduces splitting. The square point pushes aside the fibre of the wood and reduces the screwing-in torque.





Universal screw, flat countersunk head,
T-STAR *plus*, full thread, partial thread

4CUT, MULTI-Head

Slide-coated

Class 3

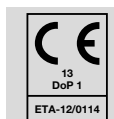
Stainless steel A2

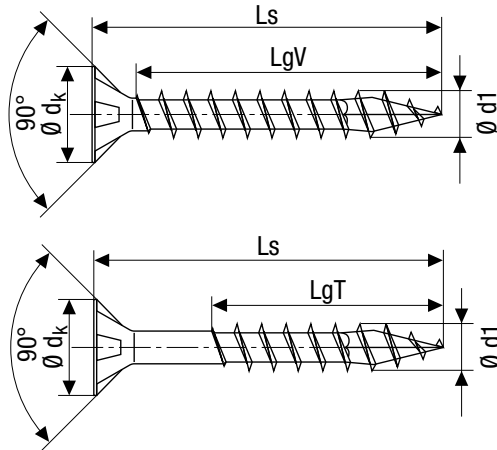
A2
AISI 304

Dimensions [mm]				Packaging units			SPAX No.	EAN code 4003530...
Thread- Ø d1	Length total Ls	Length full thread LgV	Bit size T	SPAX Box [pieces]	Master carton [pieces]	Pallet qty		
Craft Package full thread								
5.0 Ø d _k = 9.7 mm	30	25	20	200	2,000	126,000	1197000500303	168222
	35	30	20	200	2,000	126,000	1197000500353	168239
	40	35	20	200	2,000	126,000	1197000500403	168246
	45	39	20	200	2,000	126,000	1197000500453	168253
	50	44	20	200	2,000	64,000	1197000500503	168260
	60	54	20	100	1,000	63,000	1197000500603	168277
	70	61*	20	100	1,000	32,000	1197000500703	168284
	80	61*	20	100	1,000	32,000	1197000500803	168291

*Alternative Design. Thread does not extend completely up to the head.

Dimensions [mm]				Packaging units			SPAX No.	EAN code 4003530...
Thread- Ø	Length total	Length partial thread	Bit size	SPAX Box [pieces]	Master carton [pieces]	Pallet qty		
d1	Ls	LgT	T					
Craft Package partial thread								
5.0 Ø d _k = 9.7 mm	40	27	20	200	2,000	126,000	0197000500403	091926
	45	30	20	200	2,000	126,000	0197000500453	091933
	50	32	20	200	2,000	64,000	0197000500503	091940
	60	37	20	100	1,000	63,000	0197000500603	091957
	70	41	20	100	1,000	32,000	0197000500703	091964
	80	46	20	100	1,000	32,000	0197000500803	091971
	90	61	20	100	1,000	32,000	0197000500903	097751
	100	61	20	100	1,000	32,000	0197000501003	097768
	120	69	20	100	1,000	32,000	0197000501203	098710





Universal screw, flat countersunk head,

T-STAR *plus*, full thread, partial thread

4CUT, MULTI-Head

Slide-coated

Stainless steel A2 1.4567

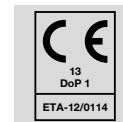
A2
1.4567
AISI 304

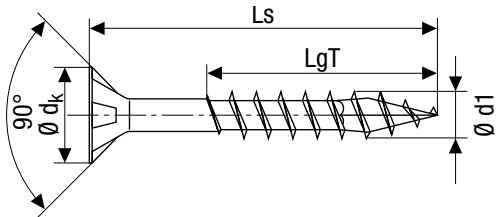
Class 3

Dimensions [mm]				Packaging units			SPAX No.	EAN code 4003530...
Thread- Ø	Length total	Length full thread	Bit size	SPAX Box [pieces]	Master carton [pieces]	Pallet qty		
d1	Ls	LgV	T					
Craft Package full thread								
6.0 Ø dk = 11.6 mm	40	34	30	200	2,000	64,000	1197000600403	168321
	50	43	30	100	1,000	32,000	1197000600503	168345
	60	53	30	100	1,000	32,000	1197000600603	168352
	70	61*	30	100	1,000	32,000	1197000600703	168369
	80	61*	30	100	1,000	32,000	1197000600803	168376

*Alternative Design. Thread does not extend completely up to the head.

Dimensions [mm]				Packaging units			SPAX No.	EAN code 4003530...
Thread- Ø	Length total	Length partial thread	Bit size	SPAX Box [pieces]	Master carton [pieces]	Pallet qty		
d1	Ls	LgT	T					
Craft Package partial thread								
6.0 Ø dk = 11.6 mm	60	37	30	100	1,000	32,000	0197000600603	091988
	70	41	30	100	1,000	32,000	0197000600703	091995
	80	46	30	100	1,000	32,000	0197000600803	092008
	90	61	30	100	1,000	32,000	0197000600903	092015
	100	61	30	100	1,000	32,000	0197000601003	092022
	120	68	30	100	1,000	28,000	0197000601203	097775
	140	68	30	100	1,000	28,000	0197000601403	097782
	160	65	30	100	1,000	28,000	0197000601603	098727

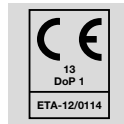


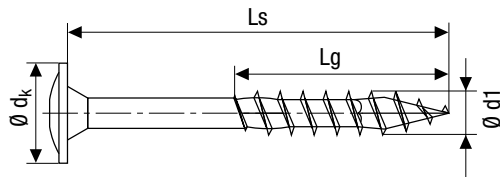


Universal screw, flat countersunk head,
T-STAR *plus*, partial thread
4CUT, MULTI-Head
Slide-coated

Stainless steel A2 1.4567 **A2** 1.4567 AISI 304 Class 3

Dimensions [mm]				Packaging units			SPAX No.	EAN code 4003530...
Thread- Ø d1	Length total Ls	Length partial thread LgT	Bit size T	SPAX Box [pieces]	Master carton [pieces]	Pallet qty		
Standard Package								
8.0 Ø d _k = 15.1 mm	80	47	40	50	500	14,000	0197000800805	257292
	100	57	40	50	500	14,000	0197000801005	257308
	120	70	40	50	500	14,000	0197000801205	257315
	140	80	40	50	500	14,000	0197000801405	257322
	160	80	40	50	500	14,000	0197000801605	257339
	180	80	40	50	500	14,000	0197000801805	257346
	200	80	40	50	500	12,000	0197000802005	257353
	220	80	40	50	500	12,000	0197000802205	257360
	240	80	40	50	–	4,800	0197000802405	257377
	260	80	40	50	–	4,800	0197000802605	257384
	280	80	40	50	–	4,800	0197000802805	257391
	300	80	40	50	–	4,800	0197000803005	257407





Timber construction screw, washer head,
T-STAR *plus*, partial/full thread

4CUT

Slide-coated

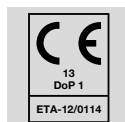
Stainless steel A2 1.4567

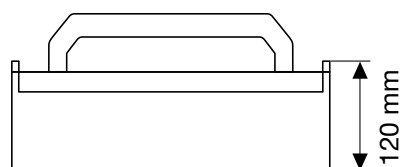
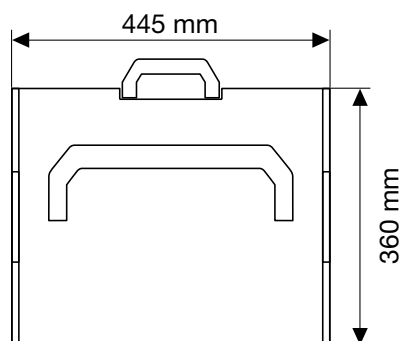
A2
1.4567
AISI 304

Class 3

Dimensions [mm]				Packaging units			SPAX No.	EAN code 4003530...
Thread- Ø	Length total	Length thread	Bit size	SPAX Box [pieces]	Master carton [pieces]	Pallet qty		
d1	Ls	Lg	T					
Standard Package								
6.0 Ø d _k = 13.6 mm	60*	56	30	100	1,000	32,000	0257000600605	183027
	80*	61	30	100	1,000	28,000	0257000600805	183034
	100	61	30	100	1,000	32,000	0257000601005	183041
	120	68	30	100	1,000	28,000	0257000601205	183058
	140	68	30	100	1,000	28,000	0257000601405	183065
8.0 Ø d _k = 20 mm	50*	46	40	50	500	14,000	0257000800505	182815
	60*	56	40	50	500	14,000	0257000800605	182839
	80*	70	40	50	500	14,000	0257000800805	176760
	100*	80	40	50	500	14,000	0257000801005	177880
	120*	80	40	50	500	14,000	0257000801205	177897
	140	80	40	50	500	14,000	0257000801405	177903
	160	80	40	50	500	14,000	0257000801605	177910
	180	80	40	50	500	14,000	0257000801805	182143
	200	80	40	50	500	12,000	0257000802005	182181
	220	80	40	50	500	12,000	0257000802205	257414
	240	80	40	50	–	4,800	0257000802405	257421
	260	80	40	50	–	4,800	0257000802605	257438
	280	80	40	50	–	4,800	0257000802805	257445
	300	80	40	50	–	4,800	0257000803005	257452

*Alternative Design. Thread does not extend completely up to the head.





SPAX assorter case L-BOXX, plastic, large

SPAX flat countersunk head, T-STAR *plus*

1.065 flat countersunk heads in 17 dimensions
plus 5 bits T-STAR *plus*

Class 3

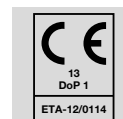
Stainless steel A2

A2
AISI 304

SPAX No.	5000009165019
EAN code	4003530252310
Packaging unit	1 box in master carton

50 4.0 x 60 T 20 ■	50 5.0 x 50 T 20 ■	100 3.5 x 30 T 15 □	50 5.0 x 60 T 20 □	50 5.0 x 80 T 20
50 4.0 x 50 T 20 ■	75 4.5 x 35 T 20 ■	50 4.5 x 50 T 20 □	100 3.5 x 35 T 15 □	30 5.0 x 90 T 20
75 4.0 x 40 T 20 ■	100 3.0 x 35 T 10 ■	30 6.0 x 40 T 30 ■	30 6.0 x 60 T 30 □	30 5.0 x 90 T 20
75 4.0 x 30 T 20 ■	75 4.0 x 25 T 20 ■	75 4.0 x 20 T 20 ■	75 4.0 x 20 T 20 ■	

■ = T-STAR *plus* full thread □ = T-STAR *plus* partial thread



SPAX bits

T-STAR *plus*, length 25 mm

Positive and secure fit of the bit and better driving, e. g. when working overhead

SPAX screwdriver bits for hand-held screwdrivers, electric and cordless screwdrivers, drills and pneumatic screwdrivers impress with their exact fit and optimum hardness, torque transmission and service life.

SPAX bit holders and SPAX bits are quality tools.

SPAX T-STAR *plus* bits in the SPAX CUT-CASE

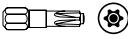
Contents in each case unmixed: 10 hanger boxes with 5 bits or 50 bits per SPAX CUT-CASE with 25 mm length



 1/4"			
Bit size	T 20	T 30	T 40
For SPAX Thread Ø [mm]	3.5 4.0 4.5 5.0	6.0	8.0
5 bits per pack, packaging unit 10 packs in SPAX CUT-CASE = 50 bits			
SPAX No.	5000009192209	5000009192309	5000009192409
EAN code	4003530239656	4003530239670	4003530239687



SPAX bits
T-STAR plus, length 25 mm
Positive and secure fit of the bit and better driving, e. g. when working overhead
SPAX screwdriver bits for hand-held screwdrivers, electric and cordless screwdrivers, drills and pneumatic screwdrivers impress with their exact fit and optimum hardness, torque transmission and service life.
SPAX bit holders and SPAX bits are quality tools.

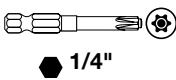
 1/4"			
Bit size	T 20	T 30	T 40
For SPAX Thread Ø [mm]	3.5 4.0 4.5 5.0	6.0	8.0
1 bit in pack, packaging unit 5 packs = 5 bits			
SPAX No.	5000007899201	5000007899301	5000007899401
EAN code	4003530190568	4003530190582	4003530159299

SPAX bits

T-STAR *plus*, length 50 mm

Contents in each case unmixed:
10 hanger boxes with 5 bits or 50 bits per SPAX CUT-CASE
with 25 mm length



			
Bit size	T 20	T 30	T 40
For SPAX Thread Ø [mm]	3.5 4.0 4.5 5.0	6.0	8.0
5 bits per pack, packaging unit 10 packs in SPAX CUT-CASE = 50 bits			
SPAX No.	5000009193209	5000009193309	5000009193409
EAN code	4003530192876	4003530192890	4003530192906

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