







A Global Brand. A German Product. A Local Company.

A Global Brand

Founded in 1823, Altenloh, Brinck & Co was the first company to undertake the industrial production of screws in Germany. In 1967 the company revolutionised the industry worldwide with the invention of the SPAX universal screw.

A German Product

At SPAX, we do not compromise on quality. Every SPAX product is designed and manufactured for a specific application. We guarantee that when used correctly, SPAX products will perform way beyond any inferior or cheaper product on the market.

A Local Company

In the Australian/New Zealand market, more and more builders, developers, architects, councils and landscape architects have discovered the advantages of dealing with a local company that's fully backed by a global corporation

Why Choose SPAX?

SPAX screws are designed to save you time, reduce your project costs and to outlast the lifetime of your project.



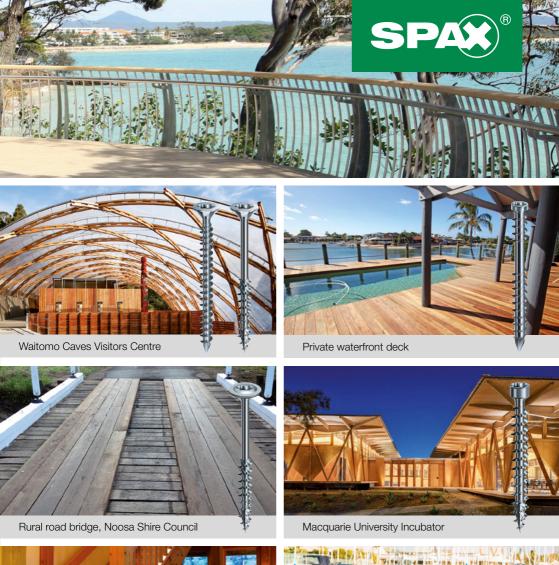
Inferior screws can lead to splitting, increased project costs and a poor finish.



SPAX screws give a superior finish, durability that can outlast your project and low maintenance.











Mooloolaba Harbour Boardwalk



THE IDEAL STAINLESS STEEL SCREW FOR TIMBER DECKING

SPAX Decking Screw particularly suited for coastal and corrosive areas

- Available in 304 A2 or 316 A4 stainless steel
- Permanent protection against corrosion
- Also suitable for 140x19 decking boards
- Cylinder head
- Fixing thread
- CUT point
- Easy screwing*
- SPAX typical ground serrations
- T-STAR plus recess

* We recomend pre-drilling

MADE IN

IMPORTANT

Scan QR code for instructions <u>before</u> using this product.









The ideal Stainless Steel Screw

for Timber Decking

SPAX Decking Screw

Stainless steel A2/304

	Dimensions [mm]				Packaging unit	SPAX-No.
Thread- Ø d1	Length total Ls	Maximum board- thickness	Length partial thread LgT	BIT size T	SPAX Box [pieces]	
	40	12	21	25	200	0537000500403
5.0	50	19	21	25	200	0537000500503
Ø d _k =	60	24	26	25	100	0537000500603
7.0 mm	70	28	31	25	100	0537000500703
	80	32	36	25	100	0537000500803

SPAX Decking Screw

Stainless steel A4/316

	Dimensions [mm]				Packaging unit	SPAX-No.
Thread-	Length	Maximum	Length	BIT size	SPAX	
0 d1	total Ls	board- thickness	partial thread LgT	т	Box [pieces]	
	40	12	23	25	200	0538000600403
6.0	50	19	23	25	100	0538000600503
Ø d _k =	60	24	28	25	100	0538000600603
7.0 mm	80	32	40	25	100	0538000600803
	100	40	40	25	100	0538000601003



Step 1: Drill the boards and substructure with a SPAX Step Drill. Use the complete length of the drill at the highest possible speed (around 3,000 rpm).



Step 2: Drive the decking screw Result: Impeccable visual bit without stopping until the head Long lasting connection with is flush.



straight in with a T-STAR plus T25 appearance with minimal splitting. minimum movement due to fixing thread.





OUTDOOR

THE SPAX SOLUTION FOR CONNECTING TIMBER-TO-STEEL IN DELTA®-SEAL

SPAX Timber-to-Steel Screw For wooden decks and walls

The SPAX advantages:

- T-STAR plus recess
- Cylinder head
- Fixing thread
- SPAX Drill Point
- DELTA®-SEAL

DELTA®-SEAL



Please see installation tips on back page

SPAX



5000009196540



SPAX Air 4009422545009





The SPAX solution for connecting timber to steel in DELTA®-SEAL

The SPAX Timber-to-Steel Screw for board thicknesses of 16–22 mm and 35–50 mm. It is ideal for fastening fencing, screening, decking* or fibre cement board to steel joists.

Do not use an impact driver to drive SPAX screws - use a normal drill at high speed.

Step 1: Pre-drill the timber boards with a SPAX Step-drill 5. There is no need to pre-drill the steel, as the specially designed tip of the Timber-to-Steel Screw will pre-drill steel up to 5mm thick (minimum recommended steel thickness is 1.6mm). Adjust your SPAX Step-drill 5 so that when the tip hits the steel joist, the step bit cuts 1-2mm into the surface of the board. On all horizontal applications eg. decking, make sure to use a SPAX Air Spacer to allow space for timber and metal shavings. The Air Spacer also ensures the timber and steel are not in contact, to prevent corrosion.

Step 2: Make sure to adjust your SPAX Drive Stop to the appropriate depth. You may need to test this on an offcut. Drive the Timber-to-Steel Screw straight in with a SPAX Drive Stop at high speed (1,000–2,500 rpm). The SPAX Drive Stop will ensure that all screw heads are driven to the correct depth.

Result: Impeccable visual appearance with minimal splitting. Long-lasting connection with minimum movement due to the fixing thread.

It is important to follow the above steps and to use the recommended system to avoid any screw failures.

* Check with your local building authority about fastening timber decking to steel joists.



SPAX Cylinder head 5 mm DELTA®-SEAL

	Din	nensions [n	Packaging unit	SPAX-No.		
Thread- Ø d1	Board- thickness	Length total Ls	Length partial thread LgT	BIT size T	SPAX Box [pieces]	
5.0	16–22	44	20	25	500	35905000802641
Ø d _k = 7.0 mm	35–50	71	20	25	350	35905000801641



THE SPAX SOLUTION FOR CONNECTING TIMBER TO ALUMINIUM

SPAX Timber-to-Aluminium Screw For wooden decks, walls and fencing

The SPAX advantages:

- T-STAR *plus* recess
- Cylinder head
- Fixing thread
- SPAX Drill Point
- 304 Stainless Steel

Please see installation tips on back page

SPA





SPAX Step drill 5 5000009196540 SPAX Air 4009422545009











The SPAX solution for connecting timber to aluminium

The SPAX Timber-to-Aluminium Screw for board thicknesses of 19–27 mm. It is ideal for fastening fencing, screening, decking* or fibre cement board to aluminium joists.

Do not use an impact driver to drive SPAX screws - use a normal drill at high speed.

Step 1: Pre-drill the timber boards with a SPAX Step-drill 5. There is no need to pre-drill the aluminium, as the specially designed tip of the Timber-to-Aluminium Screw will pre-drill aluminium up to 5 mm thick (recommended aluminium thickness for softwood is 3.0 mm, hardwood 4.0 mm). Adjust your SPAX Step-drill 5 so that when the tip hits the aluminium joist, the step bit cuts 1--2 mm into the surface of the board. On all horizontal applications eg. decking, make sure to use a SPAX Air Spacer to allow space for timber and aluminium shavings. The Air Spacer also ensures the timber and aluminium are not in contact, to allow ventilation.

Step 2: Make sure to adjust your SPAX Drive Stop to the appropriate depth. You may need to test this on an offcut. Drive the Timber-to-Aluminium Screw straight in with a SPAX Drive Stop at high speed (1,000–2,500 rpm). The SPAX Drive Stop will ensure that all screw heads are driven to the correct depth.

Result: Impeccable visual appearance with minimal splitting. Long-lasting connection with minimum movement due to the fixing thread.

It is important to follow the above steps and to use the recommended system to avoid any screw failures.

* Check with your local building authority about fastening timber decking to aluminium joists.



3.3

SPAX Cylinder head 5 mm Stainless Steel A2/304

	Din	nensions [n	Packaging unit	SPAX-No.		
Thread- Ø d1	Board- thickness	Length total	Length partial thread	BIT size	SPAX Box	
u		Ls	LgT	•	[pieces]	
5.0	19	44	20	25	100	0557000500443
Ø d _k =	24	48	20	25	100	0557000500483
7.0 mm	27	51	20	25	100	0557000500513

TIMBER CONSTRUCTION

THE EASY, ECONOMICAL REPLACEMENT FOR COACH SCREWS



Applications

Ideal for retaining walls, garden beds, boardwalks, pergolas, framing and roof structures. Available in 304 Stainless Steel or DELTA®-SEAL.



®

-11.1

SPA

DELTA®-SEAL

Superior corrosion protection, especially in CCA/ACQ treated timber







Washerhead Screws The easy, economical replacement for coach screws

- Available in DELTA®-SEAL or 304 A2 stainless steel
- Wide overlying washer head design
- Ideal for playground equipment, pergolas, porches, bridges, balconies & other outdoor construction
- Better tightening of connections & warped boards
- Higher beam supporting forces means less screws
- SPAX typical ground serrations
- T-STAR plus recess

Washer head T-STAR plus

	Thread Diameter					
Length	6.0	8.0	10.0			
[mm]	н	ead Diamete	er			
	13.6	20.0	25.0			
50						
60						
80						
100						
120						
140						
160						
180						
200						
220						
240						
260						
280						
300						
320						
340						
360						
380						
400						
450						

■ T-STAR *plus*, full thread □ T-STAR *plus*, partial thread ● Delta[®]-Seal ● Stainless steel A2 304

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TIMBER CONSTRUCTION

NEW SPAX 6 mm AND 8 mm COUNTERSUNK UNIVERSAL SCREW IN A2/304 STAINLESS STEEL



Applications Ideal to use on any outdoor timber structure including replacing failed batten screws.





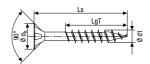




- For timber structures where flush countersinking is necessary
- Higher load capacities than traditional screws
- Quick and easy installation with low installation torque saving tool and battery life
- 8 mm to 12 mm diameter available in DELTA®-SEAL

SPAX Countersunk Universal Screw

Stainless Steel A2/304



	Dimensio	ons [mm]		Packaging unit	SPAX-No.	EAN-Code
Thread- Ø d1	Length total Ls	Length partial thread LgT	BIT size	SPAX Box [pieces]		
	60	-g. 37	30	100	0197000600603	4003530091988
	70	41	30	100	0197000600703	4003530091995
	80	41	30	100	0197000600803	4003530091995
6.0	90	40 61	30	100	0197000600903	4003530092008
Ød _k =		•••				
11.6 mm	100	61	30	100	0197000601003	4003530092022
	120	68	30	100	0197000601203	4003530097775
	140	68	30	100	0197000601403	4003530097782
	160	65	30	100	0197000601603	4003530098727
	80	47	40	50	0197000800805	4003530257292
	100	57	40	50	0197000801005	4003530257308
	120	70	40	50	0197000801205	4003530257315
	140	80	40	50	0197000801405	4003530257322
	160	80	40	50	0197000801605	4003530257339
8.0	180	80	40	50	0197000801805	4003530257346
Ød _k = 15.1 mm	200	80	40	50	0197000802005	4003530257353
15.11111	220	80	40	50	0197000802205	4003530257360
	240	80	40	50	0197000802405	4003530257377
	260	80	40	50	0197000802605	4003530257384
	280	80	40	50	0197000802805	4003530257391
	300	80	40	50	0197000803005	4003530257407

CONSTRUCTION OUTDOOR

SPAX BOUNDARY JOIST AND POST FIXING SOLUTION

Complies with strength and deflection requirements of NZS 3604 and AS/NZS1170

The SPAX advantages:

- Three times faster installation than other common methods
- PS1 Producer Statement available on request
- No brackets or coach screws required
- Higher load capacity allowing larger baluster spacings
- Exceptional durability with A4/316 stainless steel
- Aesthetically appealing
- Cost effective

IMPORTANT

SPA

Scan QR code for instructions <u>before</u> using this product.



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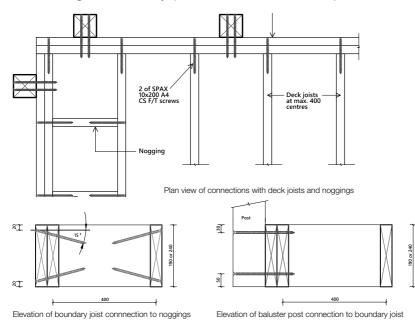






The SPAX solution

for fixing boundary joists and baluster posts



SPAX Boundary Joist and Post System*

Item	Description	Drive-Bit Size	SPAX-No.	EAN-Code
A munitive	SPAX 10 x 200 A4 CS F/T	T50	1208001002000	4003530182303
C P	SPAX 10 x 240 A4 CS. F/T	T50	1208001002400	4003530178689
A	SPAX 8 x 120 A2 W/H	T40	0257000801200	4003530242595
	SPAX 8 x 180 A2 W/H	T40	0257000801800	4003530242625
	SPAX Drill-bit Ø 6.0 x 250 HSS-G		2000000250060	4026271029881
	SPAX Boundary Joist Pre-Drill Guide 15°		3000001000015	0794712213543
9 (Salaria)	SPAX T-STAR <i>plus</i> T40		5000009182409	4003530239687
	SPAX T-STAR <i>plus</i> T50		5077701515035	4003530161582

* Refer to installation instructions for full details, dimensions and technical information on both face-fixed post and top-fixed post systems.

Timber Construction Application Sheet No. 1A



TIMBER CONSTRUCTION

SPAX BEAM-TO-POST FIXING SOLUTION

Item	Description	For Beam Size	Drive-Bit Size	SPAX-No.	EAN-Code
Ŷ	SPAX 10x180 Delta-Seal W/H	90 x 90	T50	0251641001800	4003530242694
۲	SPAX 10x220 Delta-Seal W/H	140x90	T50	0251641002200	4003530242717
•	SPAX 10x280 Delta-Seal W/H	190x90	T50	0251641002800	4003530242748
	SPAX 10x300 Delta-Seal W/H	240 x 90	T50	0251641003000	4003530242755
1	SPAX 6x180 Delta-Seal Cyl/H. F/T	90 x 90	T30	1211640601805	4003530184802
	SPAX 8x240 Delta-Seal Cyl/H. F/T	140x90	T40	1221640802405	4003530241147
	SPAX 8x280 Delta-Seal Cyl/H. F/T	190x90	T40	1221640802805	4003530241161
ŧ	SPAX 8x350 Delta-Seal Cyl/H. F/T	240 x 90	T40	1221640803505	4003530241185
	SPAX Post to Beam Screw Guide 15°			3000002000015	0794712213550
	SPAX T-STAR plus T30 25 mm			5000009182309	4003530239670
COFL 1	SPAX T-STAR <i>plus</i> T40 25 mm			5000009182409	4003530239687
	SPAX T-STAR <i>plus</i> T50 35 mm			5077701515035	4003530161582

MADE IN GERMANY





Beam to Post – continuous beam

- Cost-effective and easy to install
- Invisible connection no brackets required
- High load capacity to resist wind uplift
- Long lasting durability

Installation instructions

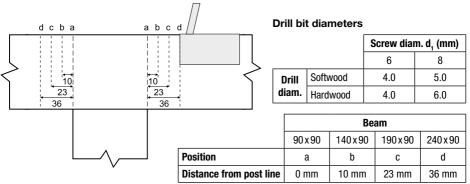
- Mark the washer head screw location on the top of the beam to coincide with the centre of the post. Drive the washer head screw vertically through beam using a rotary drill-driver only. When two beams join over the post, use a 50mm square washer under the head of the screw.
- 2. Clamp the beam-to-post drilling template into position on the top of the beam as shown below.
- 3. Install two cylinder head screws along the template guides to achieve the correct angle. Move the template to the opposite side of the post and repeat for the other two screws. No need to pre-drill in pine but pre-drilling to the full depth of the screw is required in hardwood using the drill diameters as shown below.

Note: Do not use an impact driver to install the screws.

4. The washer head screw may be removed if desired after the cylinder head screws are installed.

Positioning of screw guide

Draw a line extending the edges of the post to the top of the beam. Then position the end of the drilling template as shown in the diagram and table below, depending on the size of the beam, e.g. for a 90 \times 90 beam, the edge of the template is placed on the extension line in position "a".



Characteristic Uplift Load Data

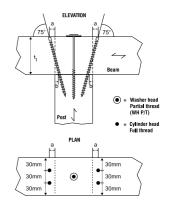
		Beam					
		90 x 90	140x90	190x90	240 x 90		
	WH P/T	10 x 180	10 x 220	10 x 280	10 x 300		
<u>6</u>	Full Thread	6 x 180	8 x 240	8 x 280	8 x 350		
Post 90 x 90	F _{ax,α,Rk}	21.9 kN	31.9 kN	28.1 kN	34.3 kN		
Pos	a (mm)	14	24	37	50		
	b (mm)	10	14	14	14		

Design criteria is according to SPAX ETA 12/0114

• $F_{_{\rm ax,\alpha,Fik}}$ is the characteristic load of four cylinder head full thread screws in radiata pine (characteristic density of 370 kg/m³)

The appropriate modification factors must be applied to determine design load
All dimensions are in mm

PS1 Producer Statement available





TIMBER CONSTRUCTION

WALL PLATE TO STUD FIXING

The use of SPAX washer head screws is a much guicker and easier method of attaching top and bottom plates to studs compared with steel plate and strap connections.

Washer head screw

The SPAX advantages:

- Easy to install. Faster and less torque required compared with traditional screws.
- Cost-effective compared with plates and straps.
- Washer head can be countersunk below timber surface.
- DELTA-SEAL coating provides very high corrosion protection and is ideal for use in treated timber.
- Made in Germany for guaranteed guality.



Ensures maximum torque transfer when driving screws.



No pre-drilling (wood dependent), Certified proof of origin offers a reduces splitting. Square end displaces the fibres and reduces continuity. screwing in torque.

Washer Head



Large head for high clamping force to pull the two timbers together.



high degree of safety, quality and





Installation instructions:

- Standard framing nails may be driven in, if desired, to avoid the stud twisting during screw installation.
- Choose the correct screw size from the table below, according to plate thickness and required load.
- Drive the screw through the plate into the centre of the stud end face until the screw head is below the surface of the plate. Use T-STAR *plus* T30 drive bit for 6mm screw and T-STAR *plus* T40 for 8 mm screw (No need to pre-drill in radiata pine. Pre-drill in LVL and hardwood, 4 mm drill bit for 6 mm screw and 6 mm drill bit for 8 mm screw.).

DELTA®-SEAL

Superior corrosion protection, especially in CCA/ACQ treated timber

High corrosion protection from the exclusive DELTA-SEAL coating, providing twice the corrosion protection compared to hot-dipped galvanised products. Ideal for CCA and ACQ treated timbers, all hardwoods and suitable for any external use away from direct exposure to salt water. Large range of stainless steel screws also available.

For more information on SPAX screws, visit our website at www.spaxpacific.com.

Joint Group	Plate Thickness	Design U	plift Capacity (kN) per so	crew size
	(mm)	SPAX 6x120 WH	SPAX 6x140 WH	SPAX 8x140 WH
	35	6.88	6.88	8.83
	45	6.88	6.88	8.83
JD4 as per AS 1720	70	5.06	6.88	7.73
	80	4.04	6.07	6.62
	90	NA	5.06	5.52
	35	5.46	5.46	7.06
	45	5.46	5.46	7.06
JD5 as per AS 1720	70	4.02	5.46	6.18
	80	3.21	4.82	5.30
	90	NA	4.02	4.42
	35	4.78	4.78	6.18
	45	4.78	4.78	6.18
J4 as per NZS 3603	70	3.51	4.78	5.41
	80	2.81	4.21	4.63
	90	NA	3.51	3.86

Design Load Data

· Load data obtained from testing according to AS1649. Test report available on request.

• Design capacities are for one SPAX washer head screw in withdrawal from the end grain of radiata pine.

SPAX[®]

SPAX PACIFIC PTY. LTD.

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SPAX GOES GREEN!

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