

### SPAX Boundary Joist and Post System

Item	Description	Drive-Bit Size	SPAX No.	EAN No.
	SPAX 10 x 200 A4 CS F/T	T50	1208001002000	4003530182303
	SPAX 10 x 240 A4 CS. F/T	T50	1208001002400	4003530178689
A managana.	SPAX 8 x 120 A2 W/H	T40	0257000801200	4003530242595
The state of the s	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
T/0 00/02	SPAX T-STAR plus T40		5000009182409	4003530239687
	SPAX T-STAR T50		5077701515035	4003530161582

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







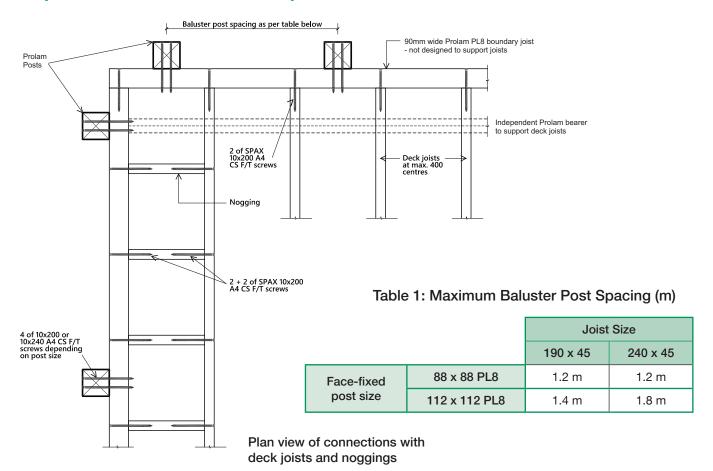


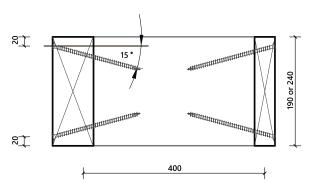




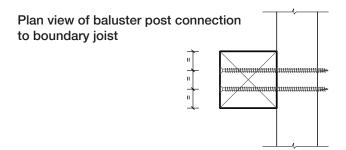
# **Boundary Joist and Baluster Post Fixing for Decks (cont.)**

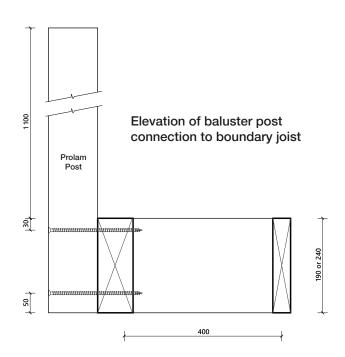
## Setup for face-fixed baluster posts





Elevation of boundary joist connnection to noggings











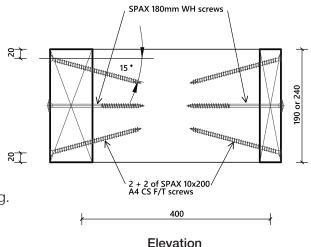
# Boundary Joist and Baluster Post Fixing for Decks (cont.)

## Installation instructions with face-fixed baluster posts

# Prolam 90mm boundary joist: Screws required

For deck joist - 2 of SPAX 10 x 200 A4 CS F/T plus 1 of SPAX 180mm long DELTA-SEAL WH For noggings - 4 of SPAX 10 x 200 A4 CS F/T plus 2 of SPAX 180mm long DELTA-SEAL WH

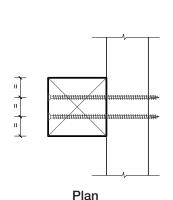
- 1. Install a SPAX 180mm DELTA-SEAL WH screw of any diameter through the boundary joist into the mid-point of the deck joist or nogging to clamp the timbers together.
- 2. Pre-drill two 6mm diameter holes to a depth of at least 150mm at 20mm from the top and bottom of the joist at an angle of 15° as shown in the diagram. Use the SPAX boundary joist drilling template for an accurate angle.
- 3. Install two SPAX 10 x 200 A4 CS F/T screws in the pre-drilled holes.
- 4. Remove the WH screw from the mid-point (this can be re-used a couple of times).
- 5. For noggings, repeat steps 2 to 5 at the rear of the nogging.

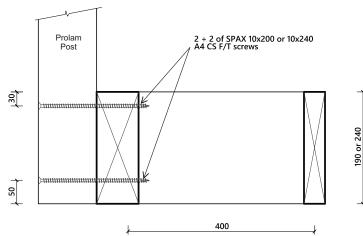


### Baluster post: Screws required

For 88mm Prolam post - 4 of SPAX 10 x 200 A4 CS F/T For 112mm Prolam post - 4 of SPAX 10 x 240 A4 CS F/T or SPAX 10 x 220 A4 CS F/T

- 1. Clamp the post in place according to the spacing in table 1.
- 2. Install four SPAX 10mm A4 CS F/T screws through the post and the full depth of the boundary joists as shown in the diagram below, the length of the screw depending on the post thickness. The point of the screws protruding on the back of the joist can be cut off if desired.











# **Boundary Joist and Baluster Post Fixing for Decks (cont.)**

### Installation instructions with top-fixed baluster posts

### Prolam 90mm boundary joist:

#### Screws required

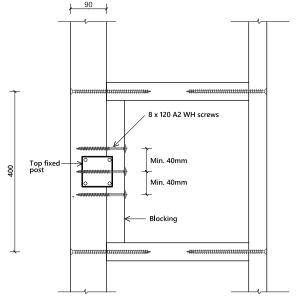
For deck joist - 2 of SPAX 10 x 200 A4 CS F/T plus 1 of SPAX 180mm long DELTA-SEAL WH For noggings - 4 of SPAX 10 x 200 A4 CS F/T plus 2 of SPAX 180mm long DELTA-SEAL WH

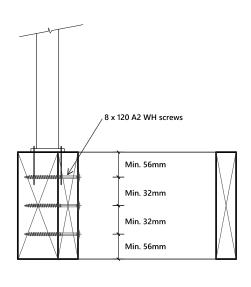
For blockings - SPAX 8 x 120 A2 WH (quantity as per Table 2 below)

- 1. Install boundary joist as per face-fixed baluster posts.
- 2. Attach timber blocking to inside of the boundary joist to accommodate the top-fixed post using the 8 x 120 stainless steel washer head screws as per the table and figures below. For pre-drilled holes, use a 5mm drill bit and drill to 120mm depth.

Table 2: No. of SPAX 8 x 120 A2 WH screws required

		Top-fixed post spacing				
		1.0 m	1.2 m	1.4 m	1.6 m	1.8 m
No. of	Pre-drilled hole	6	7	8	9	10
screws	Non pre-drilled	7	9	10	12	13





### **Baluster post:**

Install as per proprietary baluster supplier details using maximum post spacing as on right.

Table 3: Maximum Baluster Post Spacing (m)

	Joist Size	
	190 x 45	240 x 45
Top-fixed post	1.4 m	1.8 m

This specification is for Prolam PL8. For more information, please contact us using the details below.







Building Co	de Clause(	(s)	
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### **PRODUCER STATEMENT - PS1 - DESIGN**

ISSUED BY:			
ТО:	(Design Firm)		
10	(Owner/Developer		
TO BE SUPPLIED TO:			
IN DESDECT OF	(Building Consent Auth		
IN RESPECT OF:	(Description of Building	Work)	
AT:			
T (0)	(Address)		
Town/City: (Address)	LO1	рР	SO
We have been engaged by the owner/developer r	eferred to above to pr	ovide:	
	(Extent of Engageme		
services in respect of the requirements of Clause(	(s)	of the Building Cod	de for:
☐ All or ☐ Part only (as specified in the attachm	nent to this statement	), of the proposed building	g work.
The design carried out by us has been prepared in	n accordance with:		
☐ Compliance Documents issued by the Ministry	of Business, Innovati	on & Employment	or
_ ,			on method/acceptable solution)
Alternative solution as per the attached schedu	ule		
The proposed building work covered by this produ	ucer statement is desc	cribed on the drawings title	ed:
	ء	and numbered	
together with the specification, and other docume			
On behalf of the Design Firm, and subject to:			
(i) Site verification of the following design assump (ii) All proprietary products meeting their performa			
I believe on reasonable grounds that a) the buil			vings specifications and other
documents provided or listed in the attached sche	edule, will comply with	the relevant provisions of	the Building Code and that b),
the persons who have undertaken the design hav construction monitoring/observation:	e the necessary comp	petency to do so. I also red	commend the following level of
□CM1 □CM2 □CM3 □CM4 □CM5 (EI	ngineering Categories)		
I,	am: [	] CPEng #	
I am a member of: Engineering New Zealand	and hold the following	qualifications:	
The Design Firm issuing this statement holds a co		sional Indemnity Insuranc	ce no less than \$200,000*.
The Design Firm is a member of ACE New Zeala		The	NA)
SIGNED BY(Name of Design F		(Signature)\.	D- 17
,	,		<b>D</b> .
ON BEHALF OF(Design Fir			Date

Note: This statement shall only be relied upon by the Building Consent Authority named above. Liability under this statement accrues to the Design Firm only. The total maximum amount of damages payable arising from this statement and all other statements provided to the Building Consent Authority in relation to this building work, whether in contract, tort or otherwise (including negligence), is limited to the sum of \$200,000\*.

This form is to accompany Form 2 of the Building (Forms) Regulations 2004 for the application of a Building Consent.

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Document No. 0427NZL - B2 letter in lieu - Design

Christchurch, 13/08/2024

#### **Building Consent Authorities**

Subject: Letter in relation to Building Code Clause B2 – Structural Durability in respect of "SPAX boundary joist and post fixing solution for Prolam joists and posts", issue date 07/2024

The purpose of this letter is to demonstrate how compliance with Clause B2 (Durability) of the Building Code will be achieved for the above system. We can confirm that for specifically designed structural elements that are included within the design documentation:

Material	Means of compliance	Details
Structural timber	B2/AS1	Timber treatment is to be selected in accordance with Table 1A of B2/AS1.
Screw fixings	Alternative Solution	Durability of the fixings of the baluster posts and joists is provided by the use of Grade 316 Stainless Steel screws as required in Chapter 4 of NZS 3604 Timber-framed buildings, and as recommended in AS/NZS2312 – Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings.

On behalf of PTL:

Francesco Sarti PhD

**Technical Director**