

TECHLAM GLULAMINATED SPRUCELAM® BEAMS

PURPOSE

Techlam supplies Glulamined Sprucelam® beams (Sprucelam®) for use as a structural element where the risk of exposure to moisture is minimised.

EXPLANATION

Sprucelam® is an untreated glued laminated timber product. The beams are available with grade characteristic design values equivalent to GL8, GL10 and GL12.

They are manufactured from Picea abies, which is often referred to as Spruce, or Norwegian Spruce. The timber is grown in Europe where it is commonly used in the manufacture of durable, engineered, structural wood products. Sprucelam® is creamy white in appearance with a hint of yellow and/or red. It has a fine, even texture and a consistently straight grain. The durability of the heartwood is equivalent to that of Douglas Fir.



For further assistance please contact:

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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location In all exposure zones as defined in NZS 3604:2011.	➤ Fixings must be in accordance with section 4 of NZS 3604:2011.
Building In all buildings where the relevant part of the building complies with the NZ Building Code, or in existing buildings, where the designer/engineer is satisfied that the existing building is suitable for the intended building work.	
As a structural element.	➤ The beams must be subject to specific engineering in accordance with NZS 3603:1993. ➤ Where installed as part of an external wall: <ul style="list-style-type: none"> – a rigid air barrier must be used with all joints taped. – the cladding must be installed over a ventilated cavity. ➤ Where used as part of a roof structure <ul style="list-style-type: none"> – the roofing material must be profile metal, concrete or clay tiles with adequate ventilation. – the minimum roof slope must be 10°. ➤ Where possible Sprucelam® should be left exposed.

USEFUL INFORMATION

For information on the installation and maintenance of Sprucelam® and for our warranty refer to www.techlam.co.nz/downloads.

OTHER CERTIFICATIONS AND APPROVALS HELD BY TECHLAM

- Licensed FANZ/Expan Fabricators. Licence no: FAN0011.
- FSC® Chain of Custody Certification No. SGSHK-COC-510001 - FSC-C130502.



PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with the all Techlam requirements, the Sprucelam® will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 Structure B1.3.1, B1.3.2 B1.3.3 (a, b, f, j, m, q) B1.3.4	VERIFICATION METHOD B1/VM1 and ACCEPTABLE SOLUTION B1/AS1	<ul style="list-style-type: none"> › Manufactured to AS/NZS 1328:1998 and AS 5068:2006 (R2016) under 'S' Mark Product Certification license No. 2929 and No. 2030 [Bureau Veritas, 31/03/2020]. › Span tables in accordance with AS/NZS 1170:2002. › Specific engineering design in accordance with NZS 3603:1993.
B2 Durability B2.3.1(a) B2.3.2(a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> › Scion TE16-067 – Spruce & Radiata Pine Finger Joint Qualification Test & Glue Bond Durability Test. [04/2017]. › Expert opinion comparing heartwood Spruce with Douglas Fir to confirming suitability of heartwood Spruce [Scion, 9/03/2015].
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> › Installed Sprucelam® does not emit harmful materials.

SOURCES OF INFORMATION

- › Bureau Veritas. [31/07/2020]. 'S' Mark License. AS/NZS 1238.1:1998 Glue laminated structural timber. Licence no. 2929.
- › Bureau Veritas. [31/07/2020]. 'S' Mark License. AS 5068:2006 (R2016). Timber – Finger joints in structural products. Licence no. 2930.
- › Scion. [04/2017]. *Spruce & Radiata Pine Finger Joint Qualification Test & Glue Bond Durability Bond Test*. Report no. TE16-067.
- › Scion [9/03/2015]. *Durability of Heartwood Spruce Compared to Durability of Sap/Heartwood Douglas Fir*.
- › SGS. [31/05/2021] *FSC Chain-of-Custody*. Certificate SGSHK-COC-510001. FSC-C130502.

Scan or click this QR code for a full download of Compliance Documentation for this pass™.
www.techlam.nz/downloads



1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable.
2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards.

Techlam confirms that if Sprucelam® is used in accordance with the requirements of this pass™ the product will comply with the Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14 G of the Building Act.

Date of first issue: 29/05/2018

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NZBN: 9429041616406



Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of the Techlam and in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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