

SPRUCELAM® BEAMS

sprucelam®
with Kingfisher Spruce™

PURPOSE

Techlam supplies Sprucelam® for use as a structural element located within the external envelope of a building or where it forms part of the external structure.

EXPLANATION

PICEA ABIES EXPLAINED

Picea abies is often referred to as Spruce, or Norwegian Spruce. It is grown in Europe and is commonly used in construction to create durable, engineered, structural wood products. 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.

SPRUCELAM® DESCRIPTION

Sprucelam® is an untreated engineered timber product suitable for use as a structural element where the risk of exposure to moisture is minimized. It is available with grade characteristic design values equivalent to GL12, GL10 and GL8.



For further assistance please contact:

- ☎ 0800 832 452
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SCOPE AND LIMITATIONS OF USE

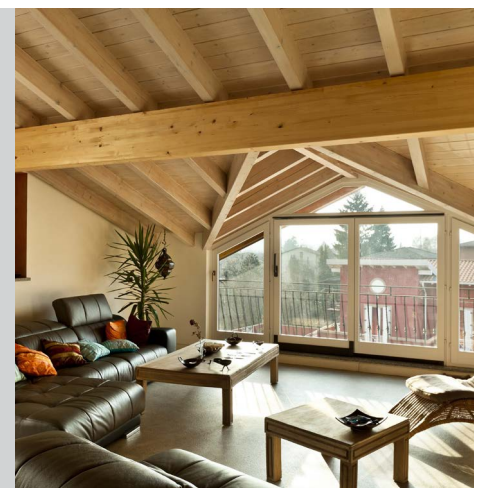
Scope	Limitations
Building	
Internal use	
In all locations.	<ul style="list-style-type: none"> › Specifically engineered to NZS 3603:1993. › Left exposed.
As part of the external structure	
Located in all exposure zones as defined in NZS3604:2011.	› Fixings in accordance with section 4, NZS 3604:2011.
In all buildings where the relevant part of the building complies with the NZ Building Code (NZBC), or in existing buildings, where the designer/engineer is satisfied that the existing building is suitable for the intended building work.	<ul style="list-style-type: none"> › Standalone, single units less than 10 m in building height. › Have a risk matrix score of no more than 6 on any external face, as defined in E2/AS1. › Have a roof slope of 10° or more. › If a skillion roof, the roofing material is profile metal, concrete or clay tiles with adequate ventilation. › Have eaves no less than 450 mm wide for single storey buildings, and eaves no less than 600 mm wide for two storey buildings.

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

- › Bureau Veritas 'S' Mark Licence [31/07/2020]. AS/NZS 1238.1:1998 Glue laminated structural timber. Licence no. 2929.
- › Bureau Veritas 'S' Mark Licence [31/07/2020]. AS 5068:2006 (R2016). Timber – Finger joints in structural products. Licence no. 2930.
- › 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® beams 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	VERIFICATION METHOD	<ul style="list-style-type: none"> ➤ Engineering to AS/NZS 1170:2002. ➤ Manufactured to AS/NZS 1328:1998 and AS 5068.2006 (R2016). BV 'S' Mark License 2929, 2930 [31/03/2020].
B1.3.1, B1.3.2	B1/VM1	
B1.3.3 (a, b, f, j, m, q)	ACCEPTABLE SOLUTION	
B1.3.4 (a, b, c, d, e)	B1/AS1	
B2 Durability	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Scion TE16-067 – Spruce & Radiata Pine Finger Joint Qualification Test & Glue Bond Durability Test. [04/2017]. ➤ Scion Expert Opinion Durability of Heartwood Spruce Compared to Durability of Sap/Heartwood Douglas Fir. [03/2015].
B2.3.1(a)		
B2.3.2(a)		
F2 Hazardous Building Materials	ALTERNATIVE SOLUTION.	<ul style="list-style-type: none"> ➤ Sprucelam® does not emit harmful materials.
F2.3.1		

SOURCES OF INFORMATION

- Bureau Veritas 'S' Mark Licence [31/07/2020]. AS/NZS 1238.1:1998 *Glue laminated structural timber*. Licence no. 2929.
- Bureau Veritas 'S' Mark Licence [31/07/2020]. AS 5068:2006 (R2016). *Timber – Finger joints in structural products*. Licence no. 2930.
- Scion. [2017]. *Spruce & Radiata Pine Finger Joint Qualification Test & Glue Bond Durability Bond Test*. Report no. TE16-067.
- Scion [2015]. *Durability of Heartwood Spruce Compared to Durability of Sap/Heartwood Douglas Fir*. Expert Opinion.

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



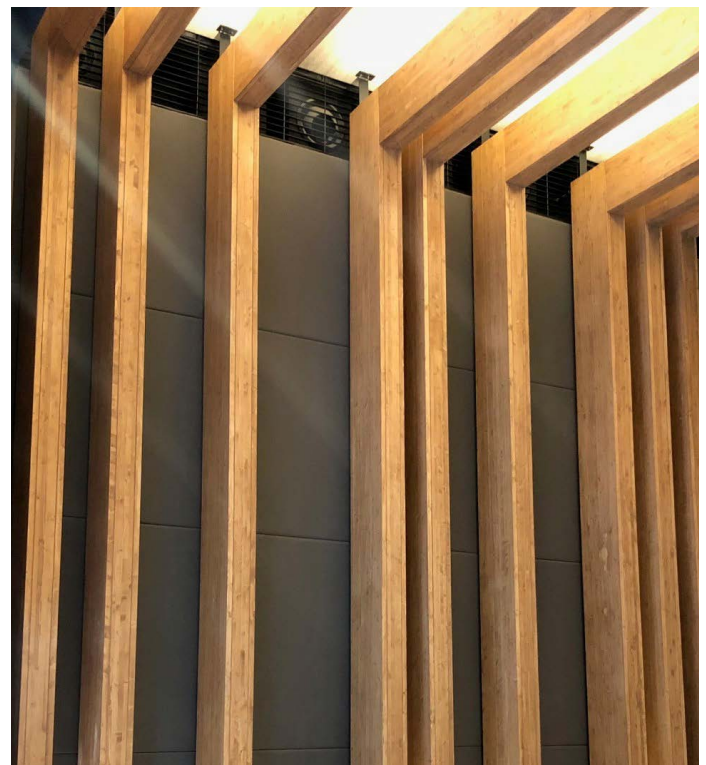
1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable.
2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions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

Techlam Ltd 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

Date of current issue: 21/12/2021

NZBN: 9429041616406



Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of the Techlam Ltd 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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