

# sprucelam<sup>®</sup>

European beauty. Kiwi ingenuity.

## PICEA ABIES EXPLAINED

*Picea abies* is often referred to as spruce or Norwegian spruce. It is grown in Europe, 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 its heartwood is equivalent to that of Douglas-fir.

## SPRUCELAM DESCRIPTION

Sprucelam is an engineered timber product suitable for use as a structural element. It is supplied untreated and is suitable for use where the risk of exposure to moisture is mitigated.

It is available with grade characteristic design values equivalent to GL12, GL10 and GL8.

## PURPOSE

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

## SCOPE OF USE & LIMITATIONS

### INTERNAL STRUCTURAL ELEMENT

Sprucelam must be:

- › specifically engineered to NZS 3603:1993 and,
- › left exposed.



## VERSION:

*NOTE: Uncontrolled in printed format.*

## DATE:

**Name:** Brett Hamilton  
**Position:** General Manager  
Signed on behalf of: Techlam NZ.

By signing this pass<sup>TM</sup>, the signatory confirms that the product described by this pass<sup>TM</sup> complies with s14G, Building Act 2004.

## FURTHER INFORMATION

For further product assistance please contact:  
Phone: 0800 832 452  
[www.techlam.nz](http://www.techlam.nz)

## EXTERNAL STRUCTURAL ELEMENTS

Sprucelam must be:

- › specifically engineered to NZS 3603:1993, and
- › the buildings must fall within the following:
  - › New buildings designed and constructed to NZS 3604:2011, or in existing buildings where the designer and installer have determined that the existing building is suitable for the intended building work and that all other conditions have been met, and
  - › Standalone, single units less than 10m in building height, and
  - › Located in all corrosion zones, subject to fixings in accordance with section 4, NZS 3604:2011, and
  - › Have a risk matrix score of no more than 6 on any external face, as defined in E2/AS1, and
  - › Have a roof slope of 10° or more, and
  - › If a skillion roof, the roofing material is profiled metal, concrete or clay tiles with adequate ventilation, and
  - › Have eaves 450mm wide or more for single-storey buildings and eaves 600mm wide or more for two-storey buildings.

## USEFUL INFORMATION

For information on the installation and maintenance of Sprucelam<sup>®</sup> and for our warranty refer to: [www.techlam.nz](http://www.techlam.nz).

## CERTIFICATIONS HELD BY TECHLAM:

- ›ASUREQuality PINENZ Programme, (AS/NZS 1328 & AS 5068):  
Reg No: PINEZ06/Certificate number: 01, 27/2/2018.
- › Licensed FANZ/Expan Fabricators:  
Licence no: FAN0011.

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with the all Techlam requirements, the Sprucelam will meet the following performance claims.

Basis of compliance		
NZBC Clause	Means of compliance	Relevance
<b>B1 Structure</b> B1.3.1, B1.3.2 B1.3.3 (a, b, f, h, j, m, q)	<b>Acceptable solution B1/AS1</b>	Manufacture is certified to: › AS/NZS 1328:1998, › AS/NZS 5068:2006, and › NZS 3631:1998
<b>B2 Durability</b> B2.3.1 (a)	<b>Alternative solution</b>	› April 2017: Scion TE16-067 – Spruce & Radiata Pine Finger Joint Qualification Test & Glue Bond Durability Test. › March 2015: Scion Expert Opinion Durability of heartwood spruce compared to durability of sap/heartwood Douglas-fir.
<b>F2 Hazardous Building Materials</b> F2.3.1	<b>Alternative solution</b>	Sprucelam <sup>®</sup> does not contain or emit harmful materials.

## SOURCES OF INFORMATION

- › AS/NZS 1328:1998 (parts 1 & 2) Glued Laminated Structural Timber
- › AS 5068:2006 – Timber – Finger Joints in Structural Products
- › NZS 3631:1998 – Grading

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