

TECHLAM SPRUCELAM® BEAMS BPIR DECLARATION

Version 1.0 August 2023



DESIGNATED BUILDING PRODUCT: Class 1

DECLARATION

Techlam Ltd has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

COMPANY DETAILS

Name	Techlam Ltd
Role	Manufacturer & supplier
NZBN	9429041616406
Address	35 – 39 Tiro Tiro Rd, Levin, 5510
Website	www.techlam.co.nz
Email	sales@techlam.co.nz
Phone	0800TECHLAM (0800 832 452)

DESCRIPTION OF BUILDING PRODUCT

Techlam manufacture Sprucelam® glulamated beams from European grown Spruce (Picea abies) for use as structural beams, thereby contributing to BI (structure) of the building.

Sprucelam® beams are manufactured to,

- AS/NZS 1328:1998 (Part 1). Glued Laminated Structural Timber, and
- AS 5068.2006 (R2016). Timber Finger Joints in Structural Products.

Techlam's manufacturing is third party certified to these standards by Bureau Veritas.

The products are manufactured to customer-specific requirements. Depending on use, the beams can be supplied with structural properties described by GL8, GL10 or GL12.

Techlam Sprucelam® beams are not treated.

SCOPE OF USE & LIMITATIONS

Scope	Limitation
In all wind zones as defined in NZS 3604:2011 and all design wind pressure as determined by engineer calculations.	Where design wind pressure exceeds 2.1kPa, design must be to NZS3603:1998 or AS/NZS1720:2022. Techlam span tables may be relied upon.
In all exposure zones as defined in NZS 3604:2011.	All fixing materials are to comply table 4, NZS 3604:2011.
In all seismic zones.	
Any proximity to a relevant boundary.	Where located within 1 metre of a relevant design must be subject to specific fire engineering.
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.	

Scope	Limitation
As a structural element	<p>The beams must be subject to specific engineering in accordance with NZS 3603:1993 or AS/NZS 1720:2022.</p> <p>Fabricated connections must be in accordance with AS/NZS 1170.2:2000 with fixing materials in accordance with section 4 NZS 3604:2011.</p> <p>Techlam Sprucelam® beams must not be ripped where this would result in a reduction in the number of lamina.</p> <p>Where fire related building code obligations apply, the specification of the Techlam Sprucelam® beams is subject to specific fire engineering.</p> <p>Where installed as part of an external wall, a fully taped, rigid air barrier must be used, and the cladding must be installed over a ventilated cavity.</p> <p>Where used as part of a roof structure,</p> <ul style="list-style-type: none"> the roofing material must be profile metal, concrete or clay tiles with adequate ventilation, and the roof slope must be > 10°. <p>Where possible Techlam Sprucelam® should be left exposed.</p>

CONTRIBUTION TO BUILDING WORK CODE OBLIGATIONS

When used in building work the Techlam Sprucelam® beams will contribute to building work through compliance with building code obligations that apply to the product itself.

	Evidence
B1 Structure B1.3.1, B1.3.2, B1.3.3 (a, f, h, j, m, q), B1.3.4	<p>Loads calculated to AS/NZS 1770, and designed to NZS3604:2011 or NZS3603:1993 or AS/NZS1720:2022</p> <p>Material manufactured to AS/NZS1328:1998 & AS 5608:2006 both cited in NZS3604:2011.</p>
B2 Durability B2.3.1 (a), B2.3.2(b)	<p>Used in accordance with Techlam requirements, the Techlam Sprucelam® beams will be protected from moisture, will be exposed and therefore will meet the durability requirements. Scion TE16-067 – Spruce & Radiata Pine Finger Joint Qualification Test & Glue Bond Durability Test. [04/2017].</p> <p>Expert opinion comparing heartwood Spruce with Douglas Fir to confirming suitability of heartwood Spruce [Scion, 9/03/2015]</p>
C Fire affecting areas beyond the fire source C3.6	<p>Specified to NZS 3603:1993, section 9</p> <p>BRANZ Study report 42 [1992] Charring rates of timber.</p>
C Movement to a place of safety C4.2	
F2 Hazardous Building Materials F2.3.1	Sprucelam® does not emit harmful materials

FOR FURTHER INFORMATION

For all design, installation and maintenance related information and for information supporting Techlam claims refer to www.techlam.co.nz.

RESPONSIBLE PERSON

In accordance with Regulation 8, as the responsible person I confirm that the information supplied in this declaration is based on information supplied to the company as well as the company's own processes and is therefore to the best of my knowledge, correct. I can also confirm that Techlam Sprucelam® beams are not subject to a warning or ban under s26 of the Building Act.

Signed for and on behalf **Techlam Ltd:**

Brett Hamilton

Brett Hamilton
MANAGING DIRECTOR
August 2023