

OPTIMISED ENGINEERED LUMBER (OEL™)

PURPOSE

WET Gisborne Ltd (WGL), a subsidiary of Wood Engineering Technology Ltd, manufactures OEL™ for use in the offsite manufacture of structural and non-structural building elements e.g. roof trusses, wall frames, floor cassettes, and wall panels. It is also used for lintels, specifically engineered beams, and posts.

EXPLANATION

OEL™ is engineered glue laminated (glulam) structural timber, manufactured from NZ grown Pinus Radiata.

The manufacture is third-party certified by Bureau Veritas (BV) in respect of WGL or, where part of the process is outsourced, WGL rely on the suppliers third party certification. Certification in all cases is to NZ standards that are cited in the acceptable solutions and verification methods.

Each length of OEL™ is uniquely branded with a barcode and a serial number to ensure robust traceability.

OEL™ is supplied with the following specifications:

Treatment	H1.2 (boron), H3.2 (CCA)
Adhesive	Type 1 phenol/formaldehyde
Moisture content at time of dispatch	8 – 12 %
Grades	GL8, GL10, GL12
Service classes	1 & 3
Appearance Grade	C
Sizes (mm)	90 x 45, 140 x 45, 190 x 45, 240 x 45, 290 x 45, 340 x 45, 390 x 45

OEL™

Optimised Engineered Lumber



For further assistance please contact:

-  0800 938 635
-  info@woodeng.co.nz
-  woodeng.co.nz

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Location</p> <p>As a substitute to SG8, SG10, and SG12 (or other equivalent), as referenced in Section 8 NZS 3604:2011, or to NZS 3603:2003.</p>	<ul style="list-style-type: none"> ➤ OEL™ use must be in accordance with the hazard class to which it is has been treated and to NZS 3602:2003. ➤ Where fire building code obligations apply, the use of OEL™ must be specifically designed in conjunction with a Fire Engineer. ➤ OEL™ must not be ripped where it would result in a reduction in the number of lamina. Dimensional stability and strength relies on the width and height remaining unchanged.

USEFUL INFORMATION

For design, installation and maintenance information, refer to woodeng.co.nz.



PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all WET requirements, OEL™ 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 (a, b, c, d, e)	ACCEPTABLE SOLUTION B1/AS1: NZS 3604:2011, clause 2.3.9.3. VERIFICATION METHOD B1/VM1.	> NZS 3604:2011, cl. 2.3.9.3 requires glue laminated timber to be manufactured in accordance with AS/NZS 1328 (Part 1). Third party certified to meet all applicable standards to meet this requirement. BV 'S' Mark License no.2933, 2934, 2937, 2938. [30/07/2020].
B2 Durability B2.3.1 (a), B2.3.2 (a)	VERIFICATION METHOD B2/VM1.	> AS/NZS1604.5:2012, para 1.9 requires same characteristic values for penetration & retention as defined in NZS 3640:2003. > Third party certified, BV 'S' Mark License no. 2935, 2936. [30/07/2020].
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION..	> Third party certified, BV 'S' Mark License no. 2935, 2936. [30/07/2020].

SOURCES OF INFORMATION

- > Bureau Veritas 'S' Mark Licence [31/07/2020]. AS/NZS 1238.1:1998 *Glue laminated structural timber*. Licence no. 2933.
- > Bureau Veritas 'S' Mark Licence [31/07/2020]. AS 5068:200+9R2016). *Timber – Finger joints in structural products*. Licence no. 2934.
- > Bureau Veritas 'S' Mark Licence [31/07/2020]. NZS 3640:2012 *Chemical preservation of round and sawn timber*. Licence no. 2935.
- > Bureau Veritas 'S' Mark Licence [31/07/2020]. AS/NZS 1604.5:2012 *Specification for preservation - Glue laminated timber products*. Licence no. 2936.
- > Bureau Veritas 'S' Mark Licence [31/07/2020]. NZS 3622:2004 *Verification of timber properties*. Licence no. 2937.
- > Bureau Veritas 'S' Mark Licence [31/07/2020]. AS/NZS 1748.1:2011 *Timber – Stress graded – Production requirements for mechanically stress-graded timber*. Licence no. 2938.



SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.

woodeng.co.nz/pages/specifications



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. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

WET Gisborne Ltd confirms that if OEL™ is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

Date of first issue: 20/06/2018

Date of current issue: 30/10/2023

NZBN: 9429035992066

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of WET Gisborne Ltd has been undertaken 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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