



# CERTIFICATE OF ASSESSMENT

Effective char depth of  
Mountain grey gum glulam timber beams and columns




Client: Australian Sustainable Hardwoods

Product: Mountain grey gum glulam timber beam (with surface treatment)

Job number: FAS190332 Issuing consultant: Rami Al Darwish

Date: 17 March 2020 Revision: SFC1.1E

## Amendment schedule

Version	Date	Information relating to report			
SFC1.0E	Issue: 09/12/2019	Reason for issue	Certificate issued to Australian Sustainable Hardwoods.		
			Prepared by	Reviewed by	Approved by
		Name	Rami Al-Darwish	Omar Saad	Omar Saad
SFC1.1E	Issue: 17/03/2020	Reason for issue	Revised to include applicability to timber columns.		
		Expiry: 30/11/2024	Name	Prepared by	Reviewed by
		Signature			

## Contact Information

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Report sponsor	Certificate issue date	Product/system
Australian Sustainable Hardwoods	17 March 2020	Mountain grey gum glulam timber beam (with surface treatment)

Introduction
The element of construction described below was assessed by this laboratory on behalf of the test sponsor in accordance with the stated test standard and achieved the results stated below. Refer to the referenced Assessment Report(s) or Regulatory Information Report(s) for the complete description of the assessment construction.

Referenced assessment report	Test methods	Report issue date	Report validity date
FAS190332 R1.1	AS 1530.4:2014	17 March 2020	31 October 2024

### Description of assessment product and performance

The analysis conducted in Section the referenced assessment report found that the glulam timber beam type are likely to have effective char depths as shown in Table 2, if tested in accordance with the conditions stipulated in AS 1530.4:2014.

**Table 1 Schedule of components of tested system**

Item	Description	
1.	Item name	Specimen E
	Product name	Mountain grey gum
	Botanical name	Eucalyptus regnans, Eucalyptus delegatensis
	Surface treatment	With surface treatment – CSIRO surface treatment
	Density	850 kg/m <sup>3</sup>
	Strength class	SD3
	Adhesive	Henkel PURBOND HBS
	Lamella dimensions	Nominal: 42.9 mm x 133.3 mm

**Table 2 Assessment outcome for timber beams and columns**

Specimen	Timber species	Effective char depth (mm)	Effective Char depth at various time periods (mm)				
			60 minutes	90 minutes	120 minutes	180 minutes	240 minutes
F	Mountain grey gum	$y = 0.4523x - 0.5239 + 7.5$	34.1	47.7	61.3	88.4	115.5

Refer the referenced report for a complete description of the assessed construction.

### Formal assessment summary

Refer to the referenced assessment report(s) or Regulatory Information Report(s) for a complete description of the assessed construction.

### Conditions/ Validity

- This certificate is provided for general information only and does not comply with the regulatory requirements for evidence of compliance.
- Reference should be made to the relevant test report or regulatory information report to determine the applicability of the test result to a proposed installation. Full details of the constructions and justification for the conclusions given, along with the validity statements, are given in the assessment reports.
- The results of these fire tests may be used to assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all conditions.
- All work and services carried out by Warringtonfire Australia Pty Ltd ACN 050 241 524 are subject to, and conducted in accordance with, the standard terms and conditions of Warringtonfire Australia Pty Ltd, which are available at <https://www.element.com/terms/terms-and-conditions> or upon request.
- Exova Warringtonfire rebranded to Warringtonfire on 1 December 2018. Apart from the change to our brand name, no other changes have occurred. The introduction of our new brand name does not affect the validity of existing documents previously issued by us.