

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1
to
AS/NZS 1748.2:2011
Timber—Solid—Stress-graded for structural purposes
Part 2: Qualification of grading method

REVISED TEXT

The 2011 edition of AS/NZS 1748.2 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This Amendment applies to Clauses 5.1, 6.3.2.1 and 6.4.3, Table 6.3.2, and Appendix A.

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Clause 5.1

Delete Clause 5.1, and *replace* with the following:

5.1 General

E	= modulus of elasticity (MOE), in megapascals
E_i	= List A indicator property target value
f	= characteristic value
f'	= characteristic value for design, in megapascals
G	= average of the grade parameter from a group of data
k_r	= a factor that gives confidence limits on the ratio of strength to MOE
$\ln$	= natural logarithm
n	= number of specimens in analysis
n_A	= number of test specimens, List A indicator property
n_B	= number of test specimens, List B indicator property
r	= ratio of the characteristic value from test results to the characteristic value for design
r_b	= ratio of characteristic bending strength from test results to characteristic bending strength for design
r_c	= ratio of characteristic compression strength, parallel to grain, from test results to characteristic compression strength for design
r_E	= ratio of characteristic MOE from test results to characteristic MOE for design
$r_{i,A}$	= property ratio for List A indicator property
$r_{i,B}$	= property ratio for List B indicator property
$r_{m,A}$	= minimum property ratio for List A properties
$r_{m,B}$	= minimum property ratio for List B properties
$r_{mu,A}$	= upper bound on minimum property ratio for List A properties
$r_{mu,B}$	= upper bound on minimum property ratio for List B properties

r_s	ratio of characteristic shear strength, parallel to grain, from test results to characteristic shear strength, parallel to grain, for design
r_t	= ratio of characteristic tension strength, parallel to grain, from test results to characteristic tension strength, parallel to grain, for design
R	= strength, in megapascals
R_i	= List B indicator property target value
R^2	= coefficient of determination
V	= coefficient of variation
V_A	= coefficient of variation of modulus of elasticity (MOE) from test results, List A indicator property
V_B	= coefficient of variation from test results, List B indicator property
Σ	= the summation operator

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Clause 6.3.2.1

Insert a Note as follows:

NOTE: Care should be taken to ensure that samples for each required test group have similar characteristics (e.g., density and primary grading parameter).

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Table 6.3.2

Delete Row 5, Item (d), and *replace* with the following:

(d)	Upper limit of $r_{m,u}$	$r_{mu,A} = r_{m,A} \left(1 + 0.7 \frac{V_A}{\sqrt{n_A}} \right)$	$r_{mu,B} = r_{m,B} \left(1 + 1.17 \frac{V_B}{\sqrt{n_B}} \right)$
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Clause 6.4.3

After second paragraph, *insert* a Note as follows:

NOTE: The biased test position is the location on the piece at which the grading method indicates that the properties are closest to the properties specified for the grade. Qualification of the grading method is not possible where the grading method cannot identify such a location on each piece.

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Appendix A, Paragraph A3.2, Item (b)

Delete Item (b).