

JAS 991 (previously 112) – Glued Laminated Timber

Cold water soak delamination test (CWS)

Sample : 3 pieces with length 75mm

Testing method : 1) Weight the samples.

2) Immerse in water at room temperature (10 – 25°C) for 6 hours.

3) Dry in oven at 40 ± 3 °C for 18 hours or longer until the weight of the samples is below the weight before testing.

Requirement : ♦ The length of delamination longer than 3mm shall be measured.

♦ Ratio of delamination (%) < 10%

♦ Length of delamination on any glue line < 1/3 of the length of the glue line.

$$\text{Ratio of delamination (\%)} = \frac{\text{Total of the length of delaminations on both ends}}{\text{Total length of glue line on both ends}} \times 100\%$$

Boiling water soak delamination test (BWS)

Sample : 3 pieces with length 75mm

Testing method :1) Weight the samples.

2) Immerse in boiling water for 4 hours and then cool in water at room temperature for 1 hour.

3) Dry in oven at 70 ± 3 °C for 18 hours or longer until the weight of the samples is below the weight before testing.

Requirement: ♦ The length of delamination longer than 3mm shall be measured.

♦ Ratio of delamination (%) < 5%

♦ Length of delamination on any glue line < 1/4 of the length of the glue line.