



Industrial Madeireira S.A.

Compensados – Laminados – Madeiras Serradas

**Plywood Factory – Factory Management
LABORATORY AND QUALITY CONTROL
TEST REPORT #006/17**

1. MATERIAL:

Film Faced Plywood. Phenolic film. Edges sealed. WBP Glue.
Nominal thickness: 18 mm 13 Plies Conifer. Assembly: 100% Pine.

2. TEST METHOD:

- EN 310:1993 – Wood-based panels – Determination of modulus of elasticity in bending and of bending strength;
- NP EN 314-1:1996 – Plywood – Bonding quality – Part 1: Test methods / Pretreatments;
- EN 314-2:1993 – Plywood – Bonding quality – Part 2: Requirements;
- NP EN 322:2002 – Wood-based panels – Determination of moisture content;
- NP EN 323:2002 – Wood-based panels – Determination of density.

The results express the arithmetic mean and the sample standard deviation.

3. TEST RESULTS:

Static Bending – Longitudinal Direction

- Bending Strength (N/mm²)..... 65,56 ± 5,28
- Modulus of Elasticity (N/mm²)..... 7200 ± 827

Static Bending – Transverse Direction

- Bending Strength (N/mm²)..... 48,92 ± 4,65
- Modulus of Elasticity (N/mm²)..... 5900 ± 893

Bonding Quality – After immersion for 24 h in water at (20 ± 3)°C (according to item 5.1.1)

- Shear Strength (N/mm²)..... 1,65 ± 0,18
- Apparent Wood Failure (%)..... 65 ± 10

Bonding Quality – After immersion (twice) for 4 h in boiling water (according to item 5.1.3)

- Shear Strength (N/mm²)..... 1,37 ± 0,14
- Apparent Wood Failure (%)..... 61 ± 9

Moisture Content (%)..... 8,4 ± 0,8

Density (kg/m³)..... 581 ± 27

Videira, April, 26th 2017.

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Director

(Rel 00617 100%Pine 18mm13L)