



Miraluz – Indústria e Comércio de Madeiras Ltda
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Date: 12/04/17

TEST REPORT

1. Material

Film Faced plywood – 18mm/13 plies Pine, bonding WBP,
dimensions 2,44 m x 1,22 m or 2,50 X 1,25m.

2. Test Required

Physical characterization on plywood panel.

3. Test Method

EN 310 - Wood Based Materials. Determination of modulus of elasticity in bending ad bending strength;

EN 322 – Wood-Based panels. Determination of Moisture Content;

EN 323 - Wood Based panels. Density Determination.

4. Results

4.1 Modulus of elasticity, N/mm² (MPa):

| Direction | 1 | 2 | 3 | 4 | 5 | 6 | Average |
|--------------|---------|---------|---------|---------|---------|---------|----------------|
| Longitudinal | 4148,60 | 4640,34 | 4018,73 | 4002,09 | 3986 | 4455,40 | 4208,53 |
| Transversal | 3196,98 | 3438,26 | 2853,37 | 3154,18 | 3166,74 | 3364,73 | 3195,71 |

4.2 Bending Strength, N/mm² (MPa):

| Direction | 1 | 2 | 3 | 4 | 5 | 6 | Average |
|--------------|-------|-------|-------|-------|-------|-------|--------------|
| Longitudinal | 28,94 | 36,77 | 31,06 | 27,57 | 34,15 | 37,43 | 32,65 |
| Transversal | 33,69 | 40,80 | 25,27 | 25,19 | 24,33 | 33,90 | 30,53 |



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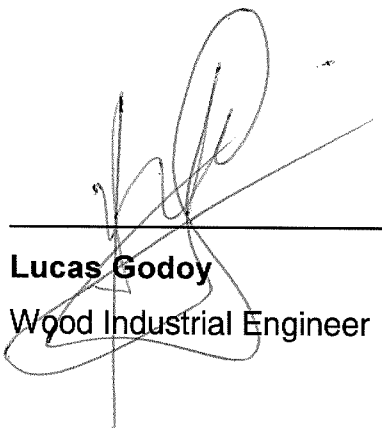
4.3 Moisture Content (%):

| 1 | 2 | 3 | 4 | 5 | 6 | Average |
|----|----|----|----|----|----|---------|
| 10 | 10 | 10 | 10 | 10 | 10 | 10 |

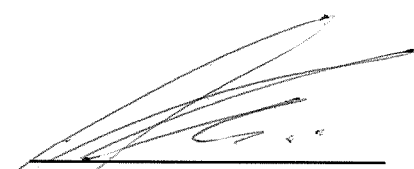
4.4 Density (Kg/m³):

| 1 | 2 | 3 | 4 | 5 | 6 | Average |
|-----|-----|-----|-----|-----|-----|---------|
| 562 | 568 | 555 | 580 | 578 | 575 | 570 |

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CNPJ 75.596.106/0001-07



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