DECLARATION OF PERFORMANCE no: 002DoP2024-07-03

1.- Unique Identification code of the product type

Radiata pine softwood plywood Thickness ≥ 8.1 mm and density ≥ 450kg/m3

2.- Intended use or uses of the construction product

Internal uses as:

Structural components in dry or humid conditions
Structural floor decking on joists in dry conditions
Structural roof decking on joists in dry or humid conditions

3.- Manufacturer

Maderas Arauco S.A Ruta del Itata Km 21 Nueva Aldea Ranquil- Chile

4.- Authorized Representative

Not Relevant

5.- System of assessment and verification of constancy of performance

System 2+

6.- Tasks for the notified body(s)

Dancert A/S - 1073 has performed initial inspection of the manufacturing plant and factory production control and continuous surveillance, assessment and evaluation of factory production control under system 2+ and issued a certificate of conformity of the factory production control (1073-CPR-809). Danish Institute of Fire and Security Technology-0845 has performed initial type testing of Reaction to fire performance on 8 mm plywood and issued a Classification report, documented in file: PC10139 dated 2007-06-12.



7.- Essential Characteristic Harmonized technical specification EN 13986 +A1:2015

| EN 314-2 EN 717-1 | Class 3 E1 | | | | | | |
|----------------------------|--|--|--|--|--|--|--|
| | E1 | | | | | | |
| | E1 | | | | | | |
| EN 13986, table 8 | Thickness ≥ 8,1 mm Declared- table 8 -D-s2,d0/Dfl-s1 Thickness < 8,1 mm : E D-s2,d0 Declared by testing PC10139 dated 2007-06-12 | | | | | | |
| EN 13986, table 9 | Wet cup μ 60 Dry cup μ 180 | | | | | | |
| EN 13986, table 10 | 0,10 (250 to 500 Hz) 0,30 (1000 to 2000 Hz) | | | | | | |
| EN 13986 | NPD | | | | | | |
| EN 13986, table 11 | 0.11 W·m ⁻¹ ·K ⁻¹ | | | | | | |
| f EN 1195/EN 12871 | See section 9 of this DoP | | | | | | |
| EN 1195/EN 12871 | See section 9 of this DoP | | | | | | |
| EN 789 | EN 1058/EN 789 Characteristic Strength, Stiffness abd Density Values for Struuctural Design | | | | | | |
| EN 1995-1-1 | K $_{\rm mod}$ and K $_{\rm def}$ is to be taken from EN 1995-1-1 | | | | | | |
| | < 5 ppm | | | | | | |
| EN 335 CEN/TS 1099:2007 | Uncoated or overlaid- Use Class 1 and 2 Overlaid and edges protected- Use class 1 and 2 | | | | | | |
| | EN 13986, table 10 EN 13986 EN 13986, table 11 of EN 1195/EN 12871 EN 1195/EN 12871 EN 789 EN 1995-1-1 EN 335 | | | | | | |

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3.



8.- Essential Characteristic Harmonized technical specification EN 13986 +A1:2015

| ESSENTIAL CHARACTERISTIC | PERFORMANCE | | | | | | | | | | |
|--|--|----|------|------|------|------|------|------|------|--|--|
| | Radiata Pine Plywood Nominal thickness (mm) | | | | | | | | | | |
| Strength and Stiffness for | 9 | 12 | 15 | 18 | 21 | 25 | 30 | | | | |
| Structural use: | Number of Plies | | | | | | | | | | |
| | | | 3 | 5 | 5 | 7 | 7 | 9 | 11 | | |
| Characteristic handing strongth | (N/mm2) — | II | 16,4 | 22,1 | 23 | 17,5 | 11,3 | 11 | 8,7 | | |
| Characteristic bending strength | | 1 | 1,3 | 4,4 | 5 | 5,4 | 4,6 | 4,1 | 5,2 | | |
| And the second state of the second se | (N/mm2) — | II | 5393 | 5452 | 5576 | 3940 | 3984 | 3991 | 3268 | | |
| Mean modulus of elasticity in bending | | Т | 192 | 1604 | 1548 | 2576 | 1501 | 1494 | 2165 | | |
| | (N/mm2) – | II | 8,7 | 11,2 | 10,4 | 9 | 7,4 | 7,9 | 6,4 | | |
| Characteristic compression strength | | Τ | 2,9 | 3,5 | 3,5 | 4,5 | 3,8 | 3,4 | 4,5 | | |
| | (N/mm2) — | II | 8,7 | 11,2 | 10,4 | 9 | 7,4 | 7,9 | 6,4 | | |
| Characteristic tension stregth | | T | 2,9 | 3,5 | 3,5 | 4,5 | 3,8 | 3,4 | 4,5 | | |
| Tania | (N/mm2) – | II | 3696 | 3648 | 3945 | 3039 | 3168 | 3370 | 2727 | | |
| Mean modulus of elasticity in Comp./Tension | | 1 | 1716 | 2533 | 2521 | 3000 | 2206 | 2019 | 2616 | | |
| | (01/2) | H | 7,2 | | | | | | | | |
| Characteristic panel shear strength | (N/mm2) - | Τ | 7,2 | | | | | | | | |
| | (a.(a) | | 700 | | | | | | | | |
| Mean modulus of rigidity in panel shear | (N/mm2) — | Т | 700 | | | | | | | | |
| | (N/mm2) 1 | | 1,8 | | | | | | | | |
| Characteristic planar shear strength | | | 1,8 | | | | | | | | |
| | (01/2) | 11 | | | | 140 | | | | | |
| Mean modulus of rigidity in planar shear | (N/mm2) - | 1 | | | | 140 | | | | | |

^{|| =} Along tge face veneer grain direction



L = Across the face veneer grain direction

the material values in this DoP are to be used for structural calculations with EN 1995 (Eurocode 5)

9.- Essential Characteristic for Roof/Floor

EN 12871: Characteristic Values for structural performance as floor/roof decking on joists.

| Thickness | Veneers/ | Maximun | Characteristic Strength Mean Stiffness | | | | Assesment | | | | |
|-----------|----------|---------|---|---------------|----------------|-------------------|-----------|----------|--|--|--|
| (nominal) | Layers | Span | | | | Impact Resistance | Service | Load | | | |
| | | | | | | | Class | Category | | | |
| | | mm | Serviceability | Ultimate Load | R _m | | | | | | |
| mm | | Note 2 | N | N | N/mm | | | Note 1 | | | |
| | FLOOR | | | | | | | | | | |
| 15 | 5/5 | 400 | 4450 | 4921 | 584 | Fulfilled | 1 | Α | | | |
| 18 | 7/7 | 600 | 4671 | 4910 | 408 | Fulfilled | 1 | Α | | | |
| 21 | 7/7 | 600 | 4775 | 5470 | 499 | Fulfilled | 1 | Н | | | |
| | ROOF | | | | | | | | | | |
| 12 | 5/5 | 600 | 3785 | 4749 | 203 | Fulfilled | 2 | Н | | | |
| 15 | 5/5 | 800 | 3672 | 3931 | 195 | Fulfilled | 2 | Н | | | |
| 18 | 7/7 | 1200 | 4674 | 4724 | 133 | Fulfilled | 2 | Н | | | |
| 21 | 7/7 | 1200 | 4793 | 5784 | 144 | Fulfilled | 2 | Н | | | |

EN 12871: Characteristic Values for structural performance as floor/roof decking on joist. Installed with flying joints.

| Thickness | Veneers/ | Maximun | Concentrated point load | | | | Assesment | | | |
|-----------|----------|---------|-------------------------|---------------|-------------------|-------------------|------------------|------------------|--|--|
| (nominal) | Layers | Span | Characteristic Strength | | Mean Stiffness | Impact Resistance | Service Class | Load Category | | |
| | | | Serviceability | Ultimate Load | R _m | | | | | |
| mm | | mm | N N | | N/mm | | | | | |
| FLOOR | | | | | | | | | | |
| 18 | 7/7 | 600 | 4250 | 4838 | 436 | Fulfilled | 1 | A | | |
| ROOF | | | | | | | | | | |
| 18 | 7/7 | 800 | 1646 | 2588 | 159 | Fulfilled | 2 | Н | | |

Note 1: Load category A. Areas for domestic and residential activities. Load Category H. Roofs that are not accessible except for maintenance, repair, and cleaning. Normal maintenance repair and cleaning painting and minor repairs.

Note 2: See separate accompanying commercial documents with regard to the guidance of installation.

Signed for and on behalf of the manufacturer by:

Victor Huerta Guerra Ply Manager (name and function)

Nva Aldea Ply Mill July 19, 2024 (Place and date of issue)

(Signature)

