



**NP ROLPIN**  
L'innovation au service du bois

# TREATED FOR OUTDOOR

Rolpin TRHT, TA and TA Eligia are maritime pine multiplex plywood from France intended to wood-framed houses, chalets, sheds, exterior cladding, fencing.

## THE +

- NF Extérieur CTB-X
- Class 4 or class 3
- Sanded faces

## Explanation the face features :

- **Face I** : no knots, with wood repair
- **Face II** : with sound knots, wood and sealant repairs
- **Face III** : no repairs, with knotholes and cracks



TRHT

FACE I

CONTREFACE II



TA

FACE I

CONTREFACE II



TA ELEGIA

FACE I

CONTREFACE III

## REGULATORY COMPLIANCE AND CERTIFICATIONS

**TA Eligia and TRHT = Non structural construction applications.** Certificate of according to EN13986+A1.

**TA = Structural use in construction systeme 2+.** Certificate of according to EN13986+A1.

**Exterior conditions** according to EN 636 + A1 (structural use). French NF exterior CTBX quality mark and the German BFU 100 DIN 68705 part 3 certified.

**Formaldehyde emission** E1 classification according to EN 717.2 standards.

Formaldehyde emission measurements reveal a clearance of 0.02 mg/L air using desiccator method ISO 12460-4. This value is 15 times lower than the Japanese F\*\*\*\* standard requirements, the most stringent in the world (0.3 mg/l) according to JIS A 1460 standard.

**Fire reaction classification:** According to EN 13501-1 +A1 Thickness > 9 mm : Euroclass D-s2, d0

**Marking :** CE n° 380 – CPD – 011 – EN 13986 + A1

**DOP :** Available on our Website

**Density :** 560 to 610 kg/m3

**Bond quality** according to EN 314-2 standard: bonding class 3 "exterior applications» water and weather resistant. Phenolic glue.



[www.rolpin.com](http://www.rolpin.com)

## THICKNESS, NUMBER OF PLIES, PACKAGING

|                | TRHT        | TA          |             | TA Elegia   |
|----------------|-------------|-------------|-------------|-------------|
| Format (mm)    | 2500 x 1250 | 2500 x 1250 | 2500 x 1250 | 2500 x 1200 |
| Thickness (mm) | 15          | 15          | 18          | 15          |
| Packaging      | 40          | 40          | 33          | 40          |

### Mechanical specifications according to NF EN 789 / EN 1058

|   |          |      |      |      |      |
|---|----------|------|------|------|------|
| Modulus of elasticity in flexure n/mm <sup>2</sup><br>Average values        | em 0.50  | 6372 | 9311 | 7991 | 5579 |
|   | em 90.50 | 2063 | 3289 | 4609 | 3636 |
| Flexural strength n/mm <sup>2</sup> specification<br>Values to 5% exclusion | fm 0.05  | 23   | 25.4 | 21.8 | 44.7 |
|   | fm 90.05 | 16   | 13.5 | 17.5 | 31   |

## STORAGE

It is best to store the units in a dry place, preferably flat and level on dry rafters keeping them off the ground. Spacing between rafters is to be calculated to be suitable adapt to the thickness and the nature of the stored panels. In case of storage in several piles, align the supports with the long side. On a construction site, on a construction site, plan for shelter or for covering for the panels that is simultaneously water repellent.

## PERFORMANCE

**TA - TA ELEGIA** : Heartwood impregnation gives wood excellent ageing properties and long term protection against rot, mold, insects and termites. The panels are suitable for use as is, without additional protection and in direct contact with the ground.

The preservative treatment is performed using a product with neither chromium nor arsenic, which therefore does not present a toxicological health or environmental risk according to current available information.

**TRHT** : High temperature treatment makes ROLPIN TRHT plywood resistant to biological wood decomposing fungal and insects attacks in addition to termites

significant improvement in dimensional stability (50% reduction in dimensional variations)

This feature contributes to greater durability

## IMPLEMENTATION

Complies with current industry and safety standards and DTU

## DIMENSIONAL PANEL TOLERANCES

These are in compliance with standard EN 315 requirements :

Length/width dimensional tolerance : ±3.5 mm

Squareness tolerance : 1 mm per linear metre

## OTHER FEATURES

### Thermal conductivity

$\lambda = 0.13W/.K$

### Environmental sustainability

Maritime pine species :  
Class 3 - 4 according to EN 350 part 2

### Pentachlorophenol levels

< 5 ppm. (PCP)

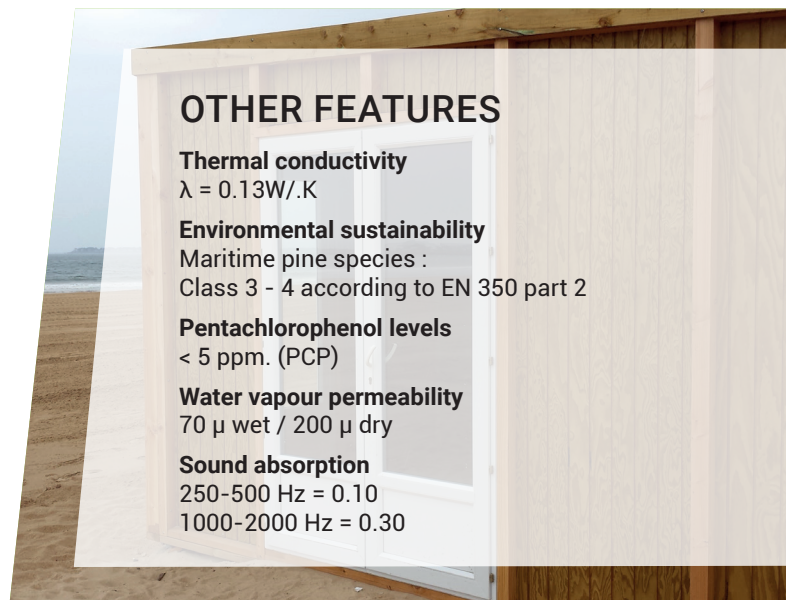
### Water vapour permeability

70  $\mu$  wet / 200  $\mu$  dry

### Sound absorption

250-500 Hz = 0.10

1000-2000 Hz = 0.30



### BENDING RADIUS (mm) :

| Thickness              | 10   | 12   | 15   | 18   |
|------------------------|------|------|------|------|
| Longitudinal direction | 2500 | 3000 | 3750 | 4750 |
| Transverse direction   | 2000 | 2400 | 3000 | 3800 |

### AIRBORNE NOISE INSULATION :

As per EN 13986 + A1,  
Paragraph 5.10

Suitable for use as an exterior structural element corresponding to service class 3 as per ENV 1995-1-1

Refer to DTU 51.3 // "Wood-based flooring or panelling»

Refer to DTU 43.4 // "Roofing work with wooden bearing elements and wood-based panels with water-tight coatings"

### RESISTANCE AT FASTENINGS (e = 15mm) :

|        |                        |                                    |
|--------|------------------------|------------------------------------|
| Points | Average lift-off force | Rough finish and edge: 30daN       |
| Screw  | Average traction force | Rough finish 180daN / Edge: 140daN |

Acoustic attenuation R of a single wooden panel measured in dB, depends on the surface weight density  $m_A$  in kg/m<sup>2</sup> according to the following equation (valid only for a range of frequencies going from 1 kHz to 3 kHz and for a surface weight density > 5 kg/m<sup>2</sup>):

$$R = 13 \times \log(m_A) + 14$$