



**NP ROLPIN**  
*Innovation at the service of wood*

## **ROLAY** II / III

according to EN 635-3 standard

## **ECO** II+ / III

according to EN 635-3 standard



**FRONT II**

Closed face, with sound knots and wood patches.  
Ad hoc sealant repairs



**FRONT II+**

Closed face, with sound knots and wood patches (8/m<sup>2</sup> max).  
Ad hoc sealant repairs

**Rolpin ROLAY and ECO are MARITIME PINE** plywoods (origin France).

Use for fittings, furniture and carpentry, building structures.

**Format** : 2500 x 1250 mm

### THE +

- Decorative panels
- NF OUTSIDE CTB - X
- Eco-aware

#### ADDITIONAL SERVICES :

Cutting and machining available on request.



**BACK III**

Open face, not repaired, possibly with holes, knots and cracks

**Finish**: Both faces are sanded

## REGULATORY COMPLIANCE AND CERTIFICATIONS

**Structural use in construction system 2 +** Certificate of conformity according to **EN 13986 + 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** :  n° 380 – CPD – 011 - EN 13986 + A1

**DOP** : Available on our Website

**Density** : 560 to 610 kg/m<sup>3</sup>

**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 PLYS, PACKAGING

The panel format is 2500 x 1250 mm (please contact us for other formats)

<b>Thickness (mm)</b>	7	9	10	12	15	18	21	25	30	38
<b>Number of plies</b>	3	3	5	5	5	7	7	9	11	13
<b>Packaging</b>	85	65	60	50	40	33	30	25	20	15
<b>Thickness tolerance max (mm)*</b>	7.41	9.47	10.5	12.56	15.65	18.74	21.83	25.95	31.5	39.14
<b>Thickness tolerance min (mm)*</b>	6.39	8.33	9.3	11.24	14.15	17.06	19.97	23.85	28.1	36.46

\* according to NF EN 315 standard

## STORAGE

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

## IMPLEMENTATION

To comply with current industry, safety, and building codes.

## PANEL DIMENSIONAL TOLERANCES ARE AS FOLLOWS

They are in compliance with standard EN 315 requirements :  
Length/width dimensional tolerance:  $\pm 3.5$  mm  
Straightness of edges and squaring: 1 mm per linear metre  
Thickness tolerance according to NF EN 315 standards



### OTHER FEATURES

**Thermal conductivity**  
**Environmental sustainability**

**Pentachlorophenol levels**  
**Water vapour permeability**  
**Sound absorption**

$\lambda = 0.13W/K$   
**Maritime pine species:**  
**Class 3 - 4 according to EN 350 part 2**  
**< 5 ppm. (PCP)**  
**70  $\mu$  wet / 200  $\mu$  dry**  
**250-500 Hz = 0.10**  
**1000-2000 Hz = 0.30**

## MECHANICAL FEATURES, ACCORDING TO NF EN 789/ EN 1058

<b>Thickness (mm)</b>	7	10	12	15	18	21	25	30	38
<b>Ply</b>	3	5	5	5	7	7	9	11	13

### MODULUS OF ELASTICITY IN FLEXURE N/MM<sup>2</sup> - AVERAGE VALUES\*

<b>Em.0.50</b>	11994	10200	9543	9311	7991	7923	8182	6890	7522
<b>Em.90.50</b>	606	2400	3057	3289	4609	4677	4418	5710	5078

\*modules to 5% exclusion are derived by multiplying the average values by: 0.645

### FLEXURAL STRENGTH N/MM<sup>2</sup> CHARACTERISTIC VALUES TO 5% EXCLUSION

<b>Fm.0.50</b>	35.1	29.5	27.7	25.4	21.8	20.9	20.9	17.5	18.3
<b>Fm.90.50</b>	4.9	12	14.2	13.5	17.5	17.2	14.6	18.3	14.8

Other characteristic values for the calculation according to EN 1995 - 1-1 (EUROCODE 5) are available on the website or please contact us.

#### USES :

Structural application as per EN 13986, EN 636-3

Floor applications

Roofing applications

#### BENDING RADIUS (mm) :

<b>Thickness</b>	10	12	15	18
<b>Longitudinal direction</b>	2500	3000	3750	4750
<b>Transverse direction</b>	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) :

<b>Points</b>	Average lift-off force	Rough finish and edge: 30daN
<b>Screw</b>	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>):

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