



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



**Rolpin UTI is a MARITIME PINE plywood** (origin France).  
Used for packing, boxing, lost formwork,  
bracing, non-visible structures and work-site protection.  
**Format** : 2500 x 1250 mm

**The +**

- Very resistant panels
- NF Exterior CTB-X Structure

**VARIANTS :**

**UTI III/III : One side sealed sanded**

**OPTIONS :**  
Cutting and machining available upon request.



**FRONT III**

Face not repaired, possibly with knotholes and cracks



**BACK III**

Face not repaired, possibly with knotholes and cracks

**Finish: Both faces are not 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 1717.2 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

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

Thickness (mm)	7	9	10	12	15	18	21	25	30	35	38
Packaging	85	65	60	50	40	33	30	25	20	17	15
Thickness tolerance max (mm)*	8.01	10.07	11.1	13.16	16.25	19.34	22.43	26.55	31.7	36.85	39.94
Thickness tolerance min (mm)*	6.39	8.33	9.3	11.24	14.15	17.06	19.97	23.85	28.1	33.55	36.46

\* according to NF EN 315

## STORAGE

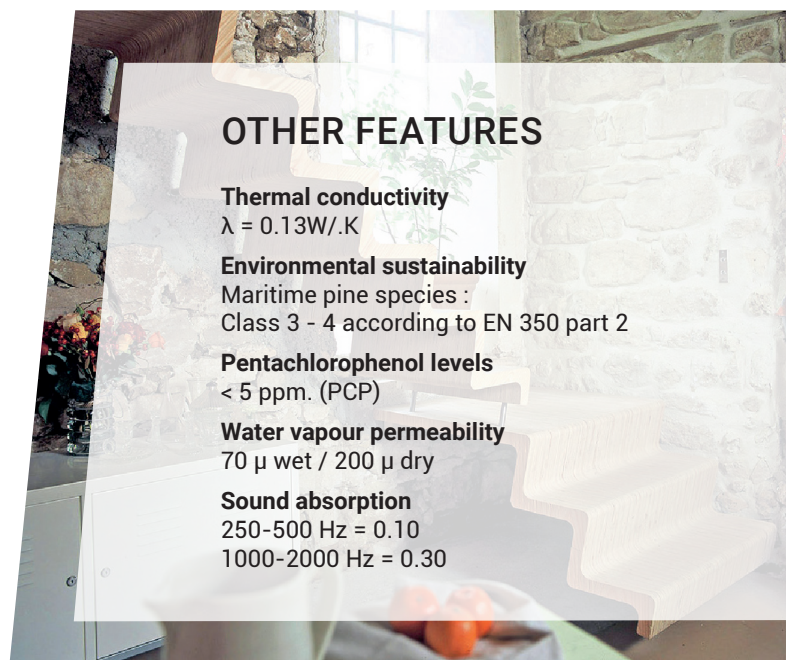
Panels should be stored in a covered and dry place and to be kept flat and level on dry rafters keeping them off the ground. Spacing between rafters is to be calculated to be suitable to the thickness and the nature of the stored panels. In case of storage in several piles, align the supports with the long side. On a construction site, 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

$\lambda = 0.13W/.K$

### 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

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

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

Thickness (mm)	7	9	10	12	15	18	21	25	30	35	38
Em.0.50	12133	11561	10578	9979	8845	8392	7690	8963	8404	7788	7230
Em.90.50	467	1039	2022	2621	3755	4208	4910	3637	4196	5098	5264

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

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

Thickness (mm)	7	9	10	12	15	18	21	25	30	35	38
fm.0.05	35.5	36.1	30.7	29	25.8	23	21.1	24.7	23	19.8	17.8
fm.90.05	4.1	2.9	10.7	12.8	16.4	16.4	18.5	14.8	15.4	15.4	15.4

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) :

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