



NP ROLPIN
Innovation at the service of wood



ECO

II+ / III

according to EN 635-3 standard

Rolpin ECO is a MARITIME PINE plywood (origin France).
Used for fittings, furniture and carpentry, building structures,
packaging.

Format : 2500 x 1250 mm

THE +

- Decorative panels
- NF extérieur CTB - X structural
- Environment friendly

ADDITIONAL SERVICES :
Cutting and machining available on request.



FRONT II+

Closed face, with sound knots and wood patches (8/m² max).
Ad hoc sealant repairs



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 100DIN 68705 part 3 certified. Our tests results show values that are clearly below the requirements of the Japanese standard and in compliance with the German regulation (E05)

Formaldehyde emission E1classification according to EN 13986 + A1 (0,01mg/m3).

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-placage.fr

THICKNESS, PACKAGING, TOLERANCES

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

Thickness (mm)	10	12	15	18	21	25	30	38
Packaging	60	50	40	33	30	24	20	15
Thickness tolerance max (mm)*	10.5	12.5	15.6	18.7	21.8	25.9	31.5	39.1
Thickness tolerance min (mm)*	9.3	11.3	14.2	17.1	20	23.9	28.1	36.5

* according to NF EN 315 standard

STORAGE

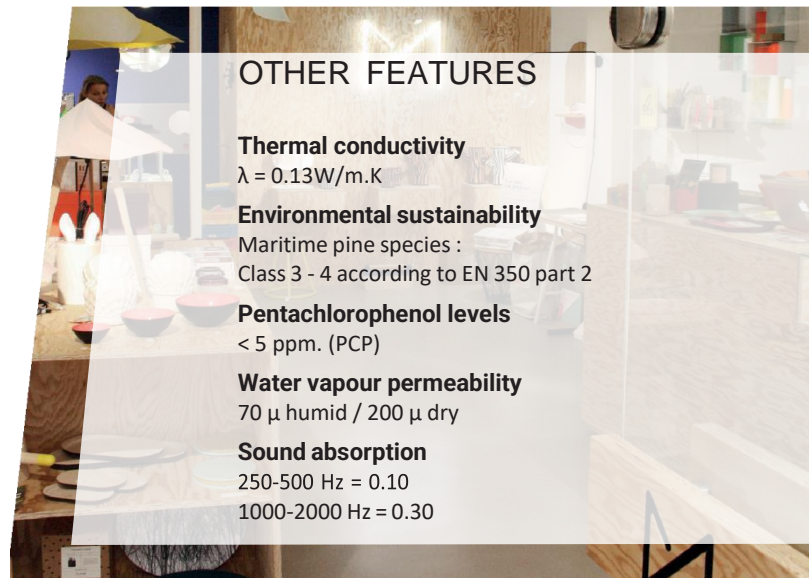
It is best to store the units in a dry place, preferably flat and level on dry supports keeping them off the soil. Spacing between rafters is to adapt to the thickness and the nature of the stored panels. During storage in several piles, align the supports in height. On a construction site, plan for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

IMPLEMENTATION

Comply with current industry, safety and building codes.

PANEL DIMENSIONAL TOLERANCES

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



OTHER FEATURES

Thermal conductivity

$\lambda = 0.13$ W/m.K

Environmental sustainability

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

Pentachlorophenol levels

< 5 ppm. (PCP)

Water vapour permeability

70 μ humid / 200 μ 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/MM² - AVERAGE VALUES*

Thickness (mm)	10	12	15	18	21	25	30	38
Em.0.50	9870	10760	9630	8980	8630	7280	7880	7350
Em.90.50	2720	1830	2960	3610	3960	5310	4710	5240

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

FLEXURAL STRENGTH N/MM² CHARACTERISTIC VALUES TO 5% EXCLUSION

Thickness (mm)	10	12	15	18	21	25	30	38
Fm.0.05	28.9	31.5	28.2	26.3	25.3	21.3	23.1	21.5
Fm.90.05	8.0	5.4	8.7	10.6	11.6	15.6	13.8	15.4

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

USES :

Structural application as per EN 13986 + A1, 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"

FASTENING STRENGTH (e = 15mm) :

Nails	Average lift-off force	Rough finish and edge: 30daN
Screw	Average traction force	Rough finish 145daN / Edge: 115daN