

Sept 2024



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

# CARGO

## NF CONTREPLAQUÉ EXTÉRIEUR CTB-X

**Rolpin CARGO** is a **100% MARITIME PINE** multi-ply plywood, with an anti-skid laminated surface.

It is used for flooring, industrial bodywork platforms building and industry.

**Format** : 2500 x 1250 mm

### THE +

- Skid-resistant panel
- NF Extérieur CTB-X structure
- Moisture resistant



### TOP SIDE skid-resistant

Face coated with a brown black phenolic film (240 g/m<sup>2</sup>), skid-resistant surface, highly resistant to abrasion.



### BOTTOM SIDE smooth

Face coated with a brown black phenolic film (400 g/m<sup>2</sup>), smooth.

## REGULATORY COMPLIANCE AND CERTIFICATIONS

**Structural use in construction:** Certificate of constancy of performance, system **CE 2+** according to **EN 13986 + A1**

**Exterior conditions** according to **EN 636 + A1** (structural use). French NF extérieur CTB-X quality mark and German BFU 100 DIN 68705 part 3 certified

**Formaldehyde emission** E1 classification according to EN 13986 + A1. Our tests results show values that are clearly below the requirements of the Japanese F\*\*\* standard and in compliance with the German regulation (E05)

Fir

**Marking** : **CE** 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-placage.fr](http://www.rolpin-placage.fr)

## THICKNESS, PACKAGING AND TOLERANCES

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

<b>Thickness (mm)</b>	15	18	21	24	27	30	35
<b>Packaging</b>	40	33	30	25	22	20	17
<b>Thickness tolerance max (mm)*</b>	15.6	18.7	21.8	24.9	28.3	31.5	36
<b>Thickness tolerance min (mm)*</b>	14.2	17.1	20	22.9	25.3	28.1	33.6

## STORAGE

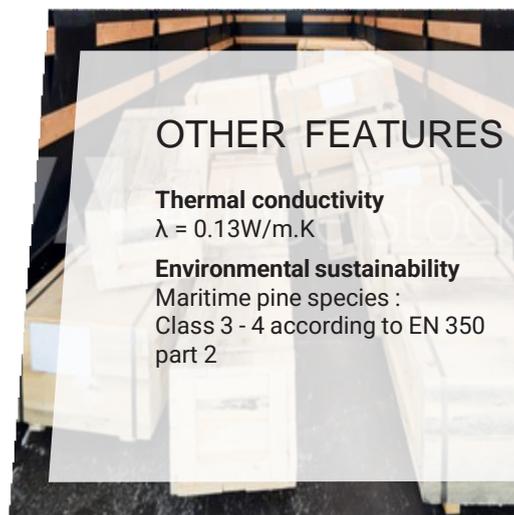
Panels should be stored in a covered and dry place and kept flat and level on dry rafters keeping them off the ground. Spacing between rafters should be adapted to the thickness and the nature of the panels stored. In case of storage in several piles, align the supports in height. On a construction site, plan for shelter or for covering of the panels that is water repellent and permeable to water vapor.

## IMPLEMENTATION

Use in compliance with current industry, safety, and building codes.

## DIMENSIONAL PANEL TOLERANCES

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 meter



### OTHER FEATURES

**Thermal conductivity**

$\lambda = 0.13\text{W/m.K}$

**Environmental sustainability**

Maritime pine species :

Class 3 - 4 according to EN 350 part 2

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

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

<b>Thickness (mm)</b>	15	18	21	24	27	30	35
<b>Em.0.50</b>	9630	8980	8630	8350	8020	7880	7630
<b>Em.90.50</b>	2960	3610	3960	4240	4470	4710	4960

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

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

<b>Thickness (mm)</b>	15	18	21	24	27	30	35
<b>fm.0.05</b>	28.2	26.3	25.3	24.5	23.7	23.1	22.3
<b>fm.90.05</b>	8.7	10.6	11.6	12.4	13.2	13.8	14.6

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

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ROLPIN CARGO THICKNESSES (IN MM)

Point load in daN/m <sup>2</sup>	18	21	24	27	30	35
100	119	160	190			
150	79	108	126	160		
250	48	65	77	97	108	147
500	24	32	38	48	54	73
750		22	26	32	36	49
1000			20	24	27	37
1250				20	22	30
1500					18	25
2000						18

CALCULATION ON 3 SUPPORTS - PARALLEL SUPPORTS ON THE LONG SIDE

ROLPIN CARGO THICKNESSES (IN MM)

Distributed load in daN/m <sup>2</sup>	15	18	21	24	27	30	35
750	25	33	39	46	54	59	67
1000	22	30	35	42	49	54	51
1500	20	26	31	37	43	47	54
2000	18	24	28	33	39	43	49
3000		21	25	29	34	37	43
4000			22	26	31	34	39

CALCULATION ON 3 SUPPORTS - PARALLEL SUPPORTS ON THE LONG SIDE

Distributed load in daN/m <sup>2</sup>	15	18	21	24	27	30	35
750	35	40	46	52	56	63	75
1000	32	36	42	47	51	57	68
1500	28	32	37	41	45	50	60
2000	25	29	33	37	30	45	54
3000	22	25	29	33	35	40	47
4000	20	23	26	30	32	36	43

CALCULATION ON 3 SUPPORTS - PARALLEL SUPPORTS ON THE SHORT SIDE