



NP ROLPIN
Innovation at the service of wood

CARGO

Rolpin CARGO is a **100% RESINOUS** multi-ply plywood, with an anti-skid laminated surface. It is used for floors, platforms industrial bodywork, building and industry.
Format : 2500 x 1250 mm

THE +

- Skid-resistant panel
- Resistant to moisture (CTB-X support)

OPTIONS :
Cutting and machining available upon request.



TOP SIDE skid-resistant

Face coated with a brown black phenolic film (240 g/m²), skid-resistant surface, highly resistant to abrasion.



BOTTOM SIDE smooth

Face coated with a brown black phenolic film (240 g/m²), smooth.

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 : 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.



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THICKNESS, NUMBER OF PLYS, PACKAGING

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

Thickness (mm)	10	15	18	21	24	25	27	30	35
Number of plies	5	7	7	9	9	9	9	11	13
Packaging	60	40	33	30	25	24	22	20	17
Thickness tolerance max (mm)*	10.5	15.65	18.74	21.83	24.92	25.95	28.35	31.5	36.85
Thickness tolerance min (mm)*	9.3	14.15	17.06	19.97	22.88	23.85	25.25	28.1	23.85

STORAGE

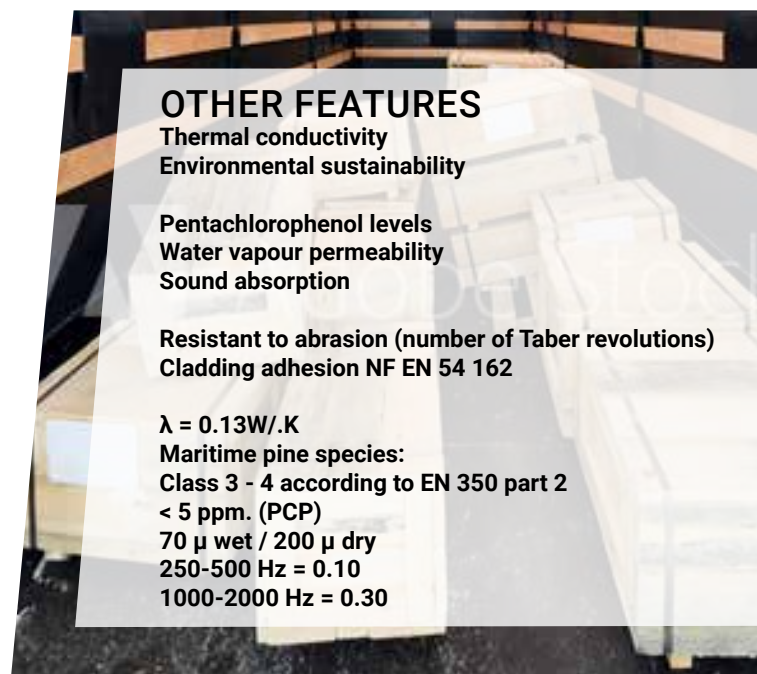
Panels should be stored in a covered and dry place and to be kept flat and level on dry rafters keeping them off the ground. Spacing between rafters is to be calculated to be suitable to the thickness and the nature of the stored panels. In case of storage in several piles, align the supports with the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

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: ± 3.5 mm
Straightness of edges and squaring: 1 mm per linear metre



OTHER FEATURES

Thermal conductivity
Environmental sustainability

Pentachlorophenol levels
Water vapour permeability
Sound absorption

Resistant to abrasion (number of Taber revolutions)
Cladding adhesion NF EN 54 162

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

MECHANICAL SPECIFICATIONS, ACCORDING TO NF EN 789 / EN 1058

Thickness (mm)	12	15	18	21	25	27	30	35
Ply	5	7	7	9	9	9	11	13

MODULUS OF ELASTICITY IN FLEXURE N/MM² - AVERAGE VALUES*

Em.0.50	9263	9166	7894	7947	7294	7592	7421	7248
Em.90.50	3057	3289	4606	4553	5206	4908	5076	5249

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

FLEXURAL STRENGTH N/MM² SPECIFICATION VALUES TO 5% EXCLUSION

fm.0.05	26.9	25	21.6	21.1	19.3	19.4	18.8	18.1
fm.90.05	14.2	13.5	17.5	15.8	17.3	15.6	15.5	15.5

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

ALLOWABLE POINT LOAD ON 1 WHEEL WITH 80X180 BEARING SURFACE

ROLPIN CARGO THICKNESSES (IN MM)

Point Load in daN/m ²	18	21	25	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

SERVICE CLASS 2

CALCULATION ON 3 SUPPORTS - PARALLEL SUPPORTS ON THE LARGE SIDE

ROLPIN CARGO THICKNESSES (IN MM)

Distributed load in daN/m ²	12	15	18	21	25	27	30	35
750	19	25	33	39	46	54	59	67
1000	18	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

SERVICE CLASS 2

CALCULATION ON 3 SUPPORTS - PARALLEL SUPPORTS ON THE LARGE SIDE

Distributed load in daN/m ²	12	15	18	21	25	27	30	35
750	28	35	40	46	52	56	63	75
1000	25	32	36	42	47	51	57	68
1500	22	28	32	37	41	45	50	60
2000	20	25	29	33	37	30	45	54
3000	18	22	25	29	33	35	40	47
4000		20	23	26	30	32	36	43

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