



NO ADDED FORMALDEHYDE  
PLYWOOD

# PANGUA-PUREGLUE FREE TO BREATHE BETTER!



Pangua PureGlue is a Formaldehyde-Free Plywood using a non-toxic bonding system innovation. This technology is designed to reduce formaldehyde emissions and help improve indoor air quality in schools, homes, RV-Caravan, and offices.

# PANGUA-PUREGLUE

## GLUE TECHNOLOGY OVERVIEW

Pangua PureGlue products have been developed in collaboration with Solenis LLC, a leading global specialty chemical company and are manufactured with Soyad™ adhesive technology.



This environmentally-friendly adhesive, which is formulated with a proprietary cross-linking resin and natural soy flour, provides a strong and moisture resistant bond, without the use of formaldehyde.

## FORMALDEHYDE EMISSION STANDARDS

Pangua PureGlue plywood panels comply with NAF (No Added Formaldehyde) global regulations that restrict formaldehyde emissions from their interior wood products. Panguaneta is the first European plywood company to be approved since June 2014 as NAF manufacturer by the State of California Air Resource Board.

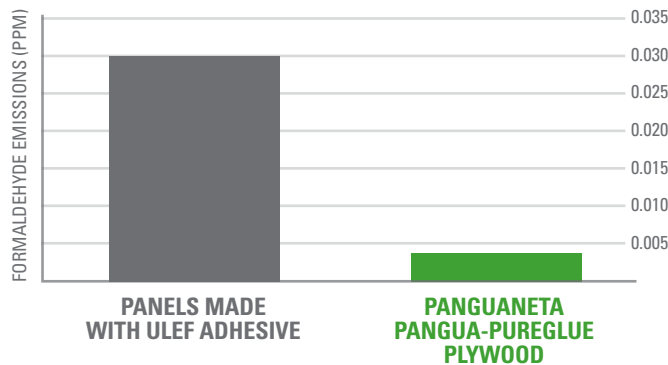
NAF based resins are formulated with no added formaldehyde as part of the resin cross linking structure. Pangua PureGlue meet or exceed Carb Phase 2 (California Air Resource Board), F\*\*\*\* (Japanese Industry JIS), AS/NZS (Australia-New Zealand) formaldehyde emission standards.

## GREEN FEATURES AND PERFORMANCE ADVANTAGES

The advantages of our Pangua PureGlue plywood begin in our 100% Made In Italy Poplar plantations, where we take responsibility for our sustainable harvesting practices. This implies for Panguaneta the respect for precise procedures concerning plantations, cutting and woods flows, creating a qualified Chain of Custody: this is Panguaneta traceability. Pangua PureGlue responds to new global regulations which have been enacted to restrict formaldehyde emissions from interior wood products, and help improve indoor air quality.

# FORMALDEHYDE EMISSION

TYPICAL EMISSIONS FROM VENEER CORE PANELS (CARB Test Protocol)



# CERTIFICATIONS



The mark of responsible forestry



VOLUME CREDIT ICRA COOPEFC - 027



## PANGUANETA PRODUCT RANGE



AUTOMOTIVE

BOATBUILDING

FURNITURE AND DESIGN

PARQUET

## BENEFITS

-  (No added Formaldehyde) certification nr. 14-191
-  CARB Phase 2 exempt
-  AS / NZS compliant
-  F \*\*\*\* Japanese Industry JIS compliant
-  LEED compliant

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**Panguaneta S.P.A.**  
Via Gino Solazzi 19  
46018 Sabbioneta (MN) ITALIA  
Tel. +39 0375 223411  
[sales@panguaneta.com](mailto:sales@panguaneta.com)

# TUTTO-PIOPPO

REVISION 01 FEBRUARY 2021

## DESCRIPTION

Plywood panel totally made of poplar veneers. Outer faces have usually long grain. Cross grain or unidirectional grain available on request. TUTTO-PIOPPO is suitable for those entire application fields that enhance all its main features: lightweight, stability, ease of cutting and machining. On demand TUTTO-PIOPPO can be supplied certified according to the FSC® (license Code FSC-C019345) and PEFC forest standard.

## APPLICATIONS



AUTOMOTIVE



BOATBUILDING

FURNITURE  
AND DESIGNARCHITECTURE  
AND CONSTRUCTION

RETAILERS



PARQUET



PACKAGING

## CERTIFICATIONS



ON DEMAND



ON DEMAND

FIRE B-s1,d0  
ON DEMANDFIRE SEA  
ON DEMANDFIRE RAIL  
ON DEMAND

## GLUING

CLASS  
1CLASS  
2CLASS  
3

## FORMALDEHYDE RELEASE



ON DEMAND



ON DEMAND



ON DEMAND



ON DEMAND

## SIZES

	Standards	Unit	Value										
Standard sizes		mm	2440 x 1220 – 2500 x 1220 – 2520 x 1720 – 2520 x 1870 3050 x 1300 – 3100 x 1530 – 3120 x 1870 – 3120 x 2120										
Thickness	EN 315	mm	3	4	5	6	8	10	12	15	18	25	40
Layers		nr.	3	3	3	5	5	5	7	7	9	11	17

## FEATURES

	Standards	Unit	Value
Voluminal mass	EN 323	Kg/m <sup>3</sup>	400 ± 10%
Bending strength Long grain/Cross grain	EN 310	N/mm <sup>2</sup>	from ≥40 / ≥10 for thickness 3 mm to ≥25 / ≥30 for thickness 40 mm
Modulus of elasticity	EN 310	N/mm <sup>2</sup>	≥3000 (average L/T)
Thermal conductivity	EN 10456	W/m K	0,12
Moisture	EN 322	%	8 ÷ 12
<b>Reaction to fire</b>			
Standard	EN 13986		D-s2,d0 – Dfl-s1 (for thicknesses ≥9 mm and for voluminal mass ≥400 kg/m <sup>3</sup> )
On demand	EN 13501-1		Euroclasse B-s1,d0 (for thicknesses from 5 to 40 mm)
	IMO MSC.307 (88)		Conform MED/3.18a
	EN 45545-2		Conform
<b>Dimensional tolerances</b>			
Thickness	EN 315	mm	+ (0,2 + 0,03 t); - (0,4 + 0,03 t)
Length/Width	EN 315	mm	± 3,5
Orthogonality	EN 315	mm/m	1

None of the following tests has been subject to preliminary conditioning. The specific values are average values referred to the normal production. It is responsibility of the customer to determine if Panguaneta's products are suitable for the wished applications and to ensure that places and way of use comply with the supplier's instructions and with the law in force.

