



## Declaration of Performance No. SUI/PP/13/CE2+

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Product identification	PINE PLYWOOD EN 636-2 S					
Product Types	9mm   12mm   15mm   18mm   21mm   24mm   27mm   30mm					
Intended uses	(See page 2)					

Name and contact address	Indústria de Compensados Sudati Ltda.
of the manufacturer	Rod. BR 153, Km 04, s/n
	Ibaiti, PR 84900-000 BRAZIL
Mill identification	SUDATI - IBAITI
Harmonized standard	EN 13986:2004
AVCP System	2+
Notified Body	1034 / HFB Engineering GMBH, Leipzig, Germany
Certificate	1034-CPD-12983/1/10 dated 6th April 2010.

Essential characteristics	Declared performance	Technical Specification		
Release of formaldehyde	E1 (phenolic resin bonded)	EN 13986 Annex B Note 2		
Bond quality	Class 3	EN 314-1/2 Type testing		
Density	580 Kg/m3	EN 323 Type testing		
Reaction to fire	D-s2, d0 / Flooring - DFL-s1	EN 13986 Table 8		
Water vapour permeability	Wet - 70 μ / Dry - 200 μ	EN 13986 Table 9		
Airborne sound insulation	R = 13 x lg (m <sub>A</sub> ) + 14	EN 13986 part 5.10		
Sound absorption coefficient	0,10 / 0,30	EN 13986 Table 10		
Thermal conductivity	0,13 W/(m.K)	EN 13986 Table 11		
Content of pentachlorophenol	< 5 ppm	EN 13986 part 5.18		
Biological durability	Class 2	EN 335 / EN 1099		

Dimensional to	Declared performance				Techni	cal Specif	cification			
Length and wi	+0 / -3	3.0mm								
Squareness	+/- 1.0 mm/m EN 324-2									
Straigthness		+/- 1.0	mm/m							
			low per T	уре		EN 324-1 / EN 315 / EN 12871				
Thickness	Product Type	9mm	12mm	15mm	18mm	21mm	24mm	27mm	30mm	
THICKHESS	Maximum (mm)	9,8	12,8	15,8	18,8	21,8	24,8	27,8	30,8	
	Minimum (mm)		11,2	14,2	17,2	19,2	22,8	26,8	28,2	

Essential characteristics	Declared performance				Technical Specification					
Bending properties		See be	See below per Type				310 Type testing			
bending properties	Type		12mm	15mm	18mm	21mm	24mm	27mm	30mm	
Bending strength (N/mm2)	Fk, 0	44,9	45,8	39,5	41,9	38,0	32,7	33,3	31,4	
	Fk, 90	14,8	18,0	24,0	23,9	25,5	23,6	31,1	26,2	
Bending stiffness (N/mm2) MOE	Ek, 0	6.179	6.255	4.531	6.369	5.136	5.083	5.608	5.060	
	Ek, 90	830	1.807	2.477	2.684	3.591	3.110	4.308	3.519	







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Intended use (1)			Internal use as structural components in humid conditions.							
Essential characteristics			Declared performance Technical Specification							
			See be	ee below per Type EN 123			EN 123	869-2 / EN 636		
Strenght and	Produc	t Type	9mm	12mm	15mm	18mm	21mm	24mm	27mm	30mm
stiffness for	Para.	Fk, 0	30,0	30,0	25,0	25,0	25,0	20,0	20,0	20,0
structural use	Perp.	Fk, 90	10,0	10,0	15,0	15,0	15,0	15,0	20,0	15,0
(N/mm2)	Para.	Em, 0	6.000	6.000	4.000	6.000	5.000	5.000	5.000	5.000
	Perp.	Em, 90	500	1.500	2.500	2.500	3.000	3.000	4.000	3.000

Intended use (2)	Structural wall sheathing on studs.						
Essential characteristics	Declared performance Technical Specification						
Soft body impact resistance	Fulfilled for Type 12mm	EN 12781 / EN 596 Type testing					

Intended use (3)			Structural roof decking on joists.					
Essential charac	Essential characteristics			ed perfori	mance		Technical Specification	
Strength and			See be	low per T	уре		EN 12781 / EN 1195 Type testing	
Stiffness	Product	Туре	12	mm / 15n	nm	15mm	18mm / 21mm / 24mm / 27mm	
under	Edge typ	oe	Sc	uare / T8	kG	T&G	T&G	
point load	Spacing (mm)		400	450	600	810	1220	
	Fser	Middle	1.235	1.824	2.225	1.996	4.191	
Strength		Joint	х	x	×	1.834	2.488	
(N)	Fmax	Middle	3.236	3.528	2.941	3.316	5.210	
	rillax	Joint	х	x	x	2.705	2.630	
Stiffness	Rmean	Middle	455	402	233	213	178	
(N/mm)	Killeali	Joint	х	х	х	172	114	
Impact resistant	Impact resistance		Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled	

Intended use (4	Structi	Structural floor decking on joists.								
Essential characteristics				ed perfori		joistai	Technical Specification			
Strength and	Strength and			See below per Type EN 12781 / EN 1195 Type te					testing	
Stiffness	Product	Туре	15mm	18mm / 21mm / 24mm / 27mm						
under	Edge ty	pe	T&G	S	quare edg	ge		Т8	kG	
point load	Spacing	Spacing (mm)		400	480	600	400	480	600	610
	F	Middle	3.691	3.634	4.112	3.485	3.077	3.802	3.405	2.634
Strength	Fser	Joint	2.813	х	х	х	2.795	2.696	2.464	2.689
(N)	F	Middle	5.064	6.003	5.779	4.915	4.993	5.297	5.270	4.682
	Fmax	Joint	3.697	х	х	х	3.551	3.721	4.059	3.854
Stiffness	Dween	Middle	739	1.025	858	605	952	804	586	554
(N/mm)	(N/mm) Rmean	Joint	535	х	х	х	774	649	466	447
Impact resistance			Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled

Place and date of issue	Issued by	Signature
Ibaiti, 1st July 2013.	Bartolomeu da Silva Neto	
ibaiti, 1st July 2015.	Technical Director	-63





## CE Marking DoP No. SUI/PP/13/CE2+

Product identification	PINE PLYWOOD EN 636-2 S							
Standard panel markings								
Product Types	9mm	12mm	15mm	18mm	21mm	24mm	27mm	30mm

CE

1034

**SUDATI - IBAITI** 

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DoP No. SUI/PP/13/CE2+

EN 13986:2004

**Bond Class 3** 

**E1** 

PINE PLYWOOD

**EN 636-2 S** 

XXmm

**Structural Components** 

**CE symbol** 

**Notified Body number** 

Manufacturing plant

**Year of CE Marking** 

**Declaration of Performance** 

Harmonized standard

**Bond quality** 

Release of formaldehyde

Product identification

**Product type** 

Intended use as structural components in humid conditions

### Special panel markings (attached to the standard markings, when applicable)

Product Types 12mm

Wall Sheathing Roof Decking

Intended use as structural wall sheathing on studs
Intended use as structural roof decking on joists

Product Types | 15mm | 18mm | 21mm | 24mm | 27mm | 30mm

Roof Decking Floor Decking

Intended use as structural roof decking on joists
Intended use as structural floor decking on joists

Place and date of issue	Issued by	Signature
Ibaiti, 1st July 2013.	Bartolomeu da Silva Neto	
ibaiti, 15t July 2015.	Technical Director	-63





# REACH Statement DoP No. SUI/PP/13/CE2+

Product identification	PINE PLYWOOD EN 636-2 S							
Product Types	9mm	12mm	15mm	18mm	21mm	24mm	27mm	30mm
Name and contact address	Indústi	Indústria de Compensados Sudati Ltda.						
of the manufacturer	Rod. B	R 153, Km	n 04, s/n					
	Ibaiti, I	PR 84900	-000 BRA	ZIL				
Mill identification	SUDAT	I - IBAITI						
In compliance to	REGUL	ATION (E	C) No 1907	7/2006				
	OF THE	EUROPE	AN PARLI	AMENT A	ND OF TH	E COUNC	IL	
	of 18 D	ecember	2006 con	cerning th	ne			
	Registr	ation, Eva	aluation, A	Authorisa	tion and	Restrictio	n of Chen	nicals
	(REACH)							
	Article 33							
	Duty to communicate information on substances in articles							
And akowledging the	Candidate List of Substances of Very High Concern for Authorisation							
	(published in accordance with Article 59(10) of the REACH Regulation)							
	Last updated: 20 June 2013 to contain 144 substances.							
								_
We hereby state that	We are the ARTICLE producer of the above mentioned product.							
	The ab	ove ment	ioned pro	duct is so	oftwood	olywood r	nade sole	ly
	of softwood veneers and bonded with phenol-formaldehyde resin,							
	and is not treated with any chemicals.							
	The above mentioned product is an ARTICLE which do not contain							
	more t	han 0.1%	of any of	the SUBS	TANCES of	of the SVH	IC list.	
	NOTIFI	CATION is	thus not	required	for this A	ARTICLE.		

Place and date of issue	Issued by	Signature
Ibaiti, 1st July 2013.	Bartolomeu da Silva Neto	
	Technical Director	-63





## Installation Guide DoP No. SUI/13/CE2+

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Product identification	PINE PLYWOOD EN 636-2 S
Intended use	Structural roof decking on joists - Load category H

#### Application

- 1. Panels may be used as Structural Roof Decking on joists in Hazard Class 1 as "warm roof" in Load Category H (roofs that are not accessible except for maintenance, repair and cleaning).
- 2. Panels may also be used in Hazard Class 2 as a "cold roof" in Load Category H provided adequate ventilation and vapour control layers are provided such that the equilibrium moisture content is normally limited to 17% and will only exceed 20% for short periods.
- 3. Panels may also be used as structural panels on pitched roofs.
- 4. Panels shall be transported, delivered, handled, stacked and stored as protected from the elements as possible and in accordance to the recommendations of clauses 6, 7, 8 and 9 of ENV 12872.
- 5. Before installation panels shall be allowed to reach an equilibrium moisture contend in accordance to the intended Service Class in accordance to clause 10 of ENV 12872.

Essential chara	cteristics		Declared performance				Technical Specification		
							EN 12781 / EN 1195 Type testing		
Product Types			12mm / 15mm 15mm			15mm	18mm / 21mm / 24mm / 27mm		
Stiffness	Edge typ	oe l	Square / T&G		T&G		T&G		
under	Spacing	(mm)	400 450 600		810		1220		
point load	Rmean	Middle	455	402	233	213		178	
(N/mm)	Killeali	Joint	х	x	х	172		114	
Impact load re	sistance		Fulfilled						
Strength unde	r point load	t	Fulfilled						

Fastener requirements						
Product Types	12mm / 15mm	18mm / 21mm / 24mm / 27mm				
Minimum faster dimension	Diameter - 2,4mm	Diameter - 2,9mm				
(Ringshank)	Length - 50mm	Length - 50mm				
Maximum fastener spacings	Perimeter of the panels	150mm				
on centres	Intermediate supporting joists and noggings or stud of panels	300mm				
Maximum fastener distance from	8mm					

### Installation

- 1. During and after installation, panels must be permanently protected from rain as quickly as possible.
- 2. Panels shall be laid with their long grain across the joists.
- 3. For square edged panels, the edges between the joists need to be supported on a minimum bearing of 18mm and the short edges supported for their full length on the joists.
- 4. A 3mm expansion gap shall be left between the edges of square edge panels to prevent buckling.
- 5. T&G panels shall be laid across the joists with both short edges supported on a joist.
- 6. All panels joints need to be staggered.
- 7. An expansion gap of 2mm per metre run of panel shall be provided around the perimeter of the roof to upstands or abutting construction and panels shall be firmly fixed down to prevent buckling and uplift from air currents.
- 8. Panels shall be cut, drilled, laid down and fixed in accordance to clauses 11, 12 and 15 of ENV 12872 and in accordance to the spacings given in the following table:







## Installation Guide DoP No. SUI/13/CE2+

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Product identification	PINE PLYWOOD EN 636-2 S
Intended use	Structural floor decking on joists - Load category A

#### **Application**

- 1. Panels may be used as Structural Floor Decking on joists in Hazard Classes 1 or 2 in Load Category A (areas for domestic and residential activities).
- 2. Panels shall be transported, delivered, handled, stacked and stored as protected from the elements as possible and in accordance to the recommendations of clauses 6, 7, 8 and 9 of ENV 12872.
- 3. Before installation panels shall be allowed to reach an equilibrium moisture contend in accordance to the intended intended Service Class in accordance to clause 10 of ENV 12872.

Essential charac	teristics		Declared performance			Technical Specification				
						EN 12781 / EN 1195 Type testing				
Product Types			15mm 18mm / 21			Lmm / 24mm / 27mm				
Stiffness	Edge typ	oe .	T&G Square		T&G					
under	Spacing	(mm)	400	400	480	600	400	480	600	610
point load	Rmean	Middle	739	1.025	858	605	952	804	586	554
(N/mm)	Killeali	Joint	535	х	х	х	774	649	466	447
Impact load res	istance		Fulfilled							
Strength under	point load	d	Fulfilled							

Fastener requirements					
Product Types	18mm / 21mm / 24mm / 27mm / 30mm				
Minimum faster dimension	Diameter - 2,9mm				
(Ringshank)	Length - 50mm				
Maximum factonor chacings	Perimeter of the panels	150mm			
Maximum fastener spacings on centres  Intermediate supporting joists and noggings or stud of panels		300mm			
Maximum fastener distance from	8mm				

### Installation

- 1. During and after installation, panels need to be permanently protected from rain as quickly as possible.
- 2. Panels shall be laid with their long grain across the joists.
- 3. For square edged panels, the edges between the joists need to be supported on a minimum bearing of 18mm and the short edges supported for their full length on the joists.
- 4. A 3mm expansion gap shall be left between the edges of square edge panels to prevent buckling.
- 5. T&G panels shall be laid across the joists with both short edges supported on a joist.
- 6. All panels joints need to be staggered.
- 7. A 10mm expansion gap shall be left at the perimeter of the floor and each panel shall be firmly fixed down to prevent buckling.
- 8. Panels shall be cut, drilled, laid down and fixed in accordance to clauses 11, 12 and 13 of ENV 12872 and in accordance to the following table:

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