

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

Page 1 / 2		-							
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 _A) + 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	Dimensional tolerances			Declared performance				Technical Specification			
Length and wi	h and width +0 / -3.0mm										
Squareness		+/- 1.0) mm/m			EN 324-2					
Straigthness		+/- 1.0) mm/m								
		See be	low per T	уре		EN 324-1 / EN 315 / EN 12871					
Thickness	Product Type	9mm	12mm	15mm	18mm	21mm	24mm	27mm	30mm		
Thickness	Maximum (mm)	9,8	12,8	15,8	18,8	21,8	24,8	27,8	30,8		
	Minimum (mm)	8,2	11,2	14,2	17,2	19,2	22,8	26,8	28,2		

Essential characteristics	Declared performance				Technical Specification				
Bending properties		See be	low per T	уре		EN 310 Type testing			
bending properties	Туре	9mm	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	Ek, 0	6.179	6.255	4.531	6.369	5.136	5.083	5.608	5.060
(N/mm2) MOE	Ek, 90	830	1.807	2.477	2.684	3.591	3.110	4.308	3.519





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

Page 2 / 2											
Intended use (1	Interna	Internal use as structural components in humid conditions.									
Essential characteristics Declared performance					Technical Specification						
			See be	low per T	уре		EN 12369-2 / EN 636				
Strenght and	Product 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)		Structu	ural roof o	decking o	n joists.	
Essential charac	teristics		Declare	ed perfor	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 ty	be	Sc	juare / T&	kG	T&G	T&G
point load Spacing (m		(mm)	400	450	600	810	1220
	Fser	Middle	1.235	1.824	2.225	1.996	4.191
Strength	rsei	Joint	x	х	x	1.834	2.488
(N)	Fmax	Middle	3.236	3.528	2.941	3.316	5.210
	FIIIdX	Joint	x	x	x	2.705	2.630
Stiffness	Rmean	Middle	455	402	233	213	178
(N/mm)	Mineall	Joint	x	x	x	172	114
Impact resistance		Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled	

Intended use (4	.)		Structu	ural floor	decking o	n joists.				
Essential charac	teristics		Declare	ed perfori	mance		Techni	cal Specif	ication	
			See be	low per T	уре		EN 127	81 / EN 1	195 Type	testing
	Product	Туре	15mm		18	3mm / 21	mm / 24n	nm / 27m	m	
	Edge typ	Edge type		Square edge				т	kG	
point load	point load Spacing (mm)	(mm)	400	400	480	600	400	480	600	610
	Fser	Middle	3.691	3.634	4.112	3.485	3.077	3.802	3.405	2.634
Strength	гзеі	Joint	2.813	x	х	x	2.795	2.696	2.464	2.689
(N)	Fmax	Middle	5.064	6.003	5.779	4.915	4.993	5.297	5.270	4.682
	FIIIdX	Joint	3.697	х	х	x	3.551	3.721	4.059	3.854
Stiffness	Rmean	Middle	739	1.025	858	605	952	804	586	554
(N/mm)	Kineali	Joint	535	x	х	x	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, 15t July 2015.	Technical Director	603



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

Product identification	PINE PLYWOOD EN 636-2 S											
Basic panel markings												
Product Types	9mm	12mm	15mm	18mm	21mm	24mm	27mm	30mm				
CE	CE sy	ymbol										
1034	Noti	Notified Body number										
SUDATI - IBAITI	Man	Manufacturing plant										
13	Year	Year of CE Marking										
DoP No. SUI/PP/13/CE2+	Decl	Declaratiom of Performance										
EN 13986:2004	Harn	Harmonized standard										
Bond Class 3	Bond quality											
E1	Release of formaldehyde											
Pine Plywood	Product identification											
EN 626-2 S												
XXmm	Prod	uct type	(XX = 9, 12	2, 15, 18, 2	21, 24, 27	or 30.)						
Structural Components	Inter	nded use	as structu	ral compo	onents in	humid co	onditions					
Additional panel markings												
Product Types	12mm]										
Floudet Types	1211111	1										
Wall Sheathing	Inter	nded use	as structu	ral wall s	heathing	on studs						
Roof Decking	Inter	nded use	as structu	ral roof d	ecking on	joists						
Product Types	15mm	18mm	21mm	24mm	27mm	30mm]					
Roof Decking	Inter	nded use	as structu	ral roof d	ecking on	joists						
Floor Decking			as structu		-	-						
	l											
Place and date of issue	Issued	-			Signatu	ire						
Ibaiti, 1st July 2013.		omeu da S cal Direct	Silva Neto or		1		6					



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

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

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		

In compliance to	REGULATION (EC) No 1907/2006		
	OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL		
	of 18 December 2006 concerning the		
	Registration, Evaluation, Authorisation and Restriction of Chemicals		
	(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 above mentioned product is softwood plywood made solely
	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 than 0.1% of any of the SUBSTANCES of the SVHC list.
	NOTIFICATION is thus not required for this ARTICLE.

Place and date of issue	Issued by	Signature
lbaiti, 1st July 2013.	Bartolomeu da Silva Neto	
	Technical Director	603



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Installation Guide DoP No. SUI/13/CE2+

Page 1 / 2

Product identification

PINE PLYWOOD EN 636-2 S

Structural roof decking on joists - Load category H

Application

Intended use

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	be	Square / T&G T&G			T&G	T&G	
under	Spacing	Spacing (mm)		450	600	810	1220	
point load	Dmoon	Middle	455	402	233	213	178	
(N/mm)	Rmean Joint		x	х	х	172	114	
Impact load re	sistance		Fulfilled					
Strength under	r point load	d	Fulfilled				illed	

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+

CE

Page 2 / 2

PINE PLYWOOD EN 636-2 S

Product identification

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 soon 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 chara	cteristics Declar			red performance			Technical Specification			
						EN 12781 / EN 1195 Type testing				
Product Types			15mm 18mm / 21							
Stiffness	Edge typ	Edge type		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)	Killean	Joint	535	х	х	х	774	649	466	447
Impact load re	sistance		Fulfill				filled			
Strength unde	r point load	4	Fulfilled							

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