PlyPano

Polyester laminate composite panel

A. Product Description

The PlyPano panels belong to the family of PolyPan "wet-in-wet" processed panels. The PlyPano panels consist of minimum 3 veneers plywood (class 2 of bonding), covered on both sides with a high quality polyester laminate. These strong, smooth, aesthetic and impact resistant panels are ideal for the construction of heavy duty truck bodies.

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B. Standard Par	nel Composition From inside to outside of van						
	Premium quality polyester skin reinforced with fibreglass. Composition:						
P1 P(olyester)	 CSM: min. 300gr/m² Polyester resin 						
	Colour : white \pm RAL 9010 Gelcoat at the inside is optionally available (e.g. for food applications). Product of the latest technology in polyester resin application.						
	The core is a multi veneers plywood panel, consisting of minimum 3 layers which are water tightly glued.						
	The wood has a density of min. 0,48kg/dm ³						
W W(ood)	Several successive multiplex panels are vertically fixed one to another with groove and tongue (= best possible connection, see drawing) : for Tpa's 14-17-21-24 and 29mm.	P) (W) (P2)					
	Bonding class 2 (covered exterior use).						
	Thickness 4, 9, 12, 15, 18, 21 and 27mm Premium quality polyester skin reinforced with fibreglass. Composition:						
P2 P(olyester)	 Gelcoat CSM: min. 300gr/m² Polyester resin 	Plywood 3.6mm					
	Colour: white ± RAL 9010 UV resistant. Product of the latest technology in polyester resin application.	_1414_					
C. Standard Dir	nensions Other dimensions also available						
Length (Lpa)	Height (Hpa)	Standard thicknesses:					
La<3m : pay length=standard length 1200 - 2400 - 3000mm La>3m : pay length = order length Max. length is 15300 mm	standard height =2100 mm = pay height; for higher panels the exact height counts 3000 mm = maximum height Thickness tolerance: Tpa=±1 mm for 6,11, 14 and 17, Tpa=0/-3 for 21, 24 & 29mm	6mm 11 mm 14 mm 17 mm 21 mm 24 mm 29mm					
Advised maximal lengths : Tpa 17mm : 8.400mm Tpa 14mm: 7.200mm Tpa 11mm & 6mm : 6.000mm	Advised maximal heights : Tpa 14mm: 2.800mm Tpa 11mm & 6mm : 2.400mm						
D. Layer thickn	esses in mm For standard panel						
P1							
W P2		4mm 9 mm 12 mm 15 mm 18 mm 21 mm 27mm 1 mm					
All figures in this technical card are the result of average values obtained in our laboratories.							
They are given for your information and have therefore no binding effect.							

E. Weight The weight has been measured, considering a density of 480kg/m ³ in relation to 8% humidity.	6mm	11 mm	14 mm	17 mm	21mm	24mm	29mm	
Applying the standard EN 310	6	9	10,8	12,6	14,4	16,2	19,2	
Γ M 1 1 1 1 1 1 1 1	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	kg/m²	
F. Minimum number of layers in Multiplex	3	3	5	5	5	7	7	
	3	3	5	5	5	/	/	
G. Manufacturing and trimming tolerances								
☑ Maximum length (Lpa) 15400mm (all Tpa) +/-3mm		-	L	pa ±3) ±1) 0/-3	
☑ Maximum height (Hpa) 3000mm +/-3mm		-					0/-3	
$\square \text{Thickness (Tpa)} \qquad +1/-1 \text{ or } 0/-3\text{mm}$								
\square Squareness: (S)=A-B +/-5mm								
H. Plywood characteristics	4,0	St 9,0	andard 12,0	thickn 15,0	ess (T) 18,0	pa) 21,0	27,0	
$\begin{tabular}{lll} $$ \blacksquare $$ Bending strength [alongside fibres] min. $$ N/mm^2$ \end{tabular} \end{tabular}$				55				
☑ Bending strength [across fibres] min. N/mm ²	30							
☑ Modulus of elasticity E [alongside fibres] min. N/mm ²		6500						
✓ Modulus of elasticity E [across fibres] min. N/mm ²				3000				
☑ Marks of glass fibres or resin, marks of the plywood surface or its layers are absolutely normal and are due to the								
"wet-in-wet" production of the panels								
 ✓ Visible joints between the plywood segments are normal. 								
Optic marks due to the reinforcement strips must be accepted.								
☑ The edges of the PlyPano panels are not sealed in								
standard execution (possible as option)								
I. Operational temperature	From minus 40°C to plus 85°C							
J. Why buy PlyPano Panels?								
PlyPano panels boast an extremely high impact resistant	e							
☑ PlyPano panels combine strength and aesthetic appeara		he sm	ooth sl	niny ar	nd sear	nless p	anels	
are ideal for application of publicitary messages								
\square PlyPano panels boast a tremendously solid construction ,	thanks	s to the	tongu	e and	groove	e conne	ection	
between the several successive multiplex panels								
☑ PlyPano panels are resistant against humidity	e	•	• .1	C 11	<u>c'</u> 1	<i>.</i> .		
☑ PlyPano panels are supplied by a specialist with 25 years of panels	of expe	erience	e in the	field o	of insul	ation		
panels. ☑ PlyPano panels are supplied by a non-competitor !								
 PlyPano panels are supplied by a non-competitor: PlyPano panels are functional and they allow an easy and 	anick	assem	blv					
 PryPano panels are functional and they anow an easy and quick assembly PlyPano panels have extremely good mechanical characteristics 								
 PlyPano panels are easy to clean 								
 PolyPan offers you a technical advice and design service to ensure the correct specification of 								
composites are manufactured to suit the application				1				
K. Applications				-				
☑ Bodies for trucks and trailers. PlyPano panels						7		
are one of the most popular methods of						1		
constructing closed bodies, because of the clean,	Í	💐 P	blyPa	n 🏾				
uninterrupted lines, extra internal width facility								
and very high strength of the material.								
☑ Aircraft support vehicles.			\mathbb{O}			<u>M</u>		
☑ PlyPano panels are particularly suitable for all								
applications where strength and stiffness are of				-*				
utmost importance.								

PolyPan technical card: PlyPano – version April 2011 We keep the right to change the specifications of the PolyPan products at any time The data in this technical card are thus contractually not binding!

L. Painting instructions	
☑ The PlyPano panels can be painted, respecting the instructions of the paint manufacturer.	Do not paint in dark colours
The pin hole test should be executed before starting to paint.	
☑ Do not paint the PlyPano panels in dark colours!	No! OK!
M. Available options	
 Black steel inserts of thickness 5mm incorporated under laminate (possible at inside and outside). Available dimensions of inserts: 200x300, 270x90, 150x80. Other dimensions on special requests only. 	Steel insert
Position of inserts must be defined by determining of A and B parameters. TEVC advises a minimal Tpa of 14mm for PlyPano panels with	
inserts. ☑ Lashing pot	
Available for Tpa's 14, 17, 21, 24 and 29mm Advised centre-distance 333mm between lashing pots (minimum 200mm). Maximum load of 750kg per m panel length (for 3 lashing pots in row) Maximum load of 250kg per single lashing pot	A = A + A + A + A + A + A + A + A + A +
 CSM 300 strips for reinforcing the joints at the inside (instead of woven-roving strips) Basic execution of PlyPano panels : outside : CSM 300 strips on joints inside : woving roving strips on joints Option : outside : CSM 300 strips on joints inside : CSM 300 strips on joints 	b) OPTON CGH 300 CGH 300 CH 300 Phroad Phroad CGH 300 CH 3

Additional wavan naving mat (200 au/m2) for	
☑ Additional woven roving mat (300gr/m ²) for improved shock resistance	
300gr/m ² woven roving	CSM 300
Caution : the glass structure may be visible as this risk can not be excluded, claims in this regard will NOT be accepted	Woven-roving 300 Plywood
When choosing this option, applying to both sides is stronlgy	
recommended (otherwise risk of bending panels because of different laminate thicknesses)	
laminate (nicknesses)	Outside
	Inside Woven-roving 300
	CSM 300
☑ Additional CSM 300 layer (300gr/m²) for extra	
aesthetic panels and improved strength	
CSM 300gr/m ²	CSM 300
	CSM 300 Plywood
For mirror smooth PlyPano panels	
When choosing this option, applying to both sides is stronlgy recommended (otherwise risk of bending panels because of different	
laminate thicknesses)	
	Outside
	Inside CEM 200
	CSM 300
☑ Increased thickness of gelcoat layer for	
smoother looks of the laminate surface.	
Mostly applied applied on the outside of the panel	
Gelcoat in standard white RAL 9010 colour	
☑ The edges of PlyPano panels sealed with	
pigmented polyester resin. ☑ Polyester skin painted in the mass	
Several shades of white (Ford Frozen white, RAL +/-9016, IC334)	
are availabe as standard colours.	
Other RAL colours are also possible with a slightly longer delivery time.	
Metallic colours are not available	
N. Transportation and packaging	
\square The PlyPano panels will be supplied to you,	
horizontally stacked on flat bed trailers	
\square To avoid contact with humidity and dirt, during and after the transport, the panels will be packed in a	
high resistant plastic film.	
☑ They will be clearly identified with an easily	
removable PolyPan trade mark label, attached to the	~~(0) <u> []</u>
bottom left of the inside of the panel, for easy identification before assembly. A detailed technical	
drawing of the panel is attached to each panel.	
O. Storage and handling	
☑ When available, PolyPan recommends the use of	
vacuum lifting equipment when handling the PlyPano	
panels. If not, the light panels can easily be handled by	
2 or 4 persons.	
Always store them flat and support them every 2 metres in dry weatherproof conditions.	
	II

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