

# SOLAFORM

SOLAFORM shuttering plywood for construction use also meets the European Union Construction Product Directive EN 13986 CE2+ to structural level

## GENERAL DATA

**Construction:** The base panel for SOLAFORM shuttering plywood is made with selected pine veneers. The core veneers are machine edge jointed guaranteeing high product stability. The veneers originate from plantations owned by PALMASOLA, guaranteeing the supply of raw materials for SOLAFORM shuttering plywood production. FSC® certified from responsibly managed forests.

**Gluing:** The phenolic resin adhesive used conforms to EN314-2 class 3 for exterior use. The plywood is calibrated and benefits from single piece face veneers, creating a smooth surface ready for the application of the medium density overlay paper (MDO) face. This creates the durable surface of SOLAFORM shuttering plywood.

**Faces:** High quality FSC certified MDO 3323 paper is used for the front face. The back face is FSC certified dark brown 120/m<sup>2</sup> smooth phenolic film.

**Edges:** All four SOLAFORM shuttering plywood edges are sealed with acrylic resin paint. All SOLAFORM shuttering plywood panels bear the PALMASOLA company logo for identification purposes.

**Tolerances:** Size tolerances length and width is  $\pm 1$ mm per meter. Squareness tolerance is  $\pm$  per meter when measured diagonally. Thickness tolerance is  $\pm 0.5$ mm.



## HOW TO USE SOLAFORM

Below you will find important information and tips regarding the handling of SOLAFORM shuttering plywood, aimed at helping you achieve the greatest number of reuses.

**Delivery:** SOLAFORM shuttering plywood is delivered in packs offering complete security during transit, handling, discharging and warehousing.

**Pack opening:** On opening each pack, you gain access to the individual SOLAFORM shuttering plywood sheets. This is a two-person task which will help to avoid any mishandling errors and edge damage, and to ensure safe fitting and positioning.

**Concrete formwork:** During the formwork construction process, if it is necessary to cut the SOLAFORM shuttering plywood to the form sizes, we recommend painting the freshly exposed edges with sealant to avoid water absorption. When cutting SOLAFORM shuttering plywood, we suggest using carbide tipped saws - this will provide the cleanest saw cut. To fix SOLAFORM you can use nails, though these fixings should be well set in from the panel edge.

**De-assembling the concrete formwork:** This is a very important step to assure and attain the maximum number of uses. In this operation, avoid the use of steel crowbars, substituting them with wooden tools to prevent unnecessary surface depressions.

**Storage:** Full packs of SOLAFORM shuttering plywood, as well as individual sheets, should be protected against rain and sun.

**Re-uses:** To ensure the maximum number of uses, the above mentioned tips should be strictly followed. SOLAFORM shuttering plywood can achieve up to 25 uses with the good handling practices mentioned.

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## PHYSICAL CHARACTERISTICS

**Sizes:** 2440 x 1220mm, 2500 x 1250mm and 3000 x 1500mm plus cut to size dimensions with high quality sawn edges are available on request.

**Thickness:** 9mm up to 35mm

**Laboratory Tests:** PALMASOLA has their own fully equipped technical laboratory for performing numerous tests on SOLAFORM, as required under the European Union Construction Product Directive EN 13986 CE2+ Structural level. These tests are extended for SOLAFORM shuttering plywood. Any additional tests required for your specific market can be mutually arranged.



## TRANSPORT & HANDLING DATA

Thickness (mm) Number of Plies	Sheets per M <sup>3</sup>	Weight per M <sup>3</sup> (kg)	Weight per Sheet (kg)
12mm / 7 P	28,00	600 - 700	25,00
15mm/ 7 P	22,40	600 - 700	31,25
18mm / 9 P	18,66	600 - 700	37,50
18mm / 11 P	18,66	600 - 700	37,50
18mm / 13 P	18,66	600 - 700	37,50
21mm / 11 P	16,00	600 - 700	43,75



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Thickness	Maximum Force (Kgf)		MOR   Mpa		MOE   Mpa	
		⊥		⊥		⊥
18mm	78,35	78,35	33,16	28,47	5373	3700

Recommended Maximum PSF - Wet Conditions				
Supports Pacing	Face Grain <i>Parallel</i> to Supports		Face Grain <i>Perpendicular</i> to Supports	
	Plywood Thickness - Allowable Pressure (PSF)		Plywood Thickness - Allowable Pressure (PSF)	
	23/32"		23/32"	
(in.)	ℓ/360	ℓ/270	ℓ/360	ℓ/270
8"	1806,48	2437,31	1254,50	1690,35
12"	549,11	724,03	379,93	501,80
16"	230,11	306,81	158,36	201,76
19.2"	132,76	177,06	91,04	121,87
24"	-	90,90	-	-