

INSTALLATION MANUAL

PLAK*DECK*
FLOOR

PLAKDECK FLOOR

Dimensions (mm) (Thickness x Width x Length)	Unit weight (kg)	Surface weight (kg/m ²)	Color	Dimensions (m ²)
25x100x3000	12,00	40,00	All colours available in the catalogue	0,3
25x200x3000	24,00	40,00		0,6
25x300x3000	36,00	40,00		0,9

PLAKDECK FLOOR INSTALLATION

1. TECHNICAL DATA

Standard properties	Unit	Specification	Standard Reference
Physical properties			
Thickness Tolerance	%	± 6	EN 12467:2021
Density	Kg/ m ³	1,400 ± 50	EN 12467:2021
Modulus of rupture	MP a	≥ 12	EN 12467:2021
Modulus of elasticity	MP a	≥ 5,000	EN 12467:2021
Humidity	%	≤ 12	EN 12467:2021
Water absorption	%	≤ 30	EN 12467:2021
pH value	pH	7-8	EN 12467:2021
Water tightness		Compliant	EN 12467:2021
Fire resistance			
Fire resistance		P	EN 12467:2021
Fire spread index		I=0.2	EN 12467:2021
Surface flame spread		Class 1	EN 12467:2021
Smoke Development Index (SDI)		15	EN 12467:2021
Flame spread index (FSI)		0	EN 12467:2021
Durability			
Freeze-Thaw resistance		Compliant	EN 12467:2021
Hot water resistance		Compliant	EN 12467:2021
Heat-rain cycle		Compliant	EN 12467:2021
Soak - dry resistance		Compliant	EN 12467:2021

2. PRODUCT USAGE

Application	Joining	Material Structure
Interior floor	Closed	Wood
Exterior floor	Closed	Steel
	Exposed/Slotted	Cement
Load ¹ (kg/m ² .)	45,00	

Notes:

1. Does not include structure load.

3. TOOLS & ACCESSORIES

3.1 Measuring & Levelling Tools

			
Measurement Tape	Leveling	Plumb & Chord	Guide Lining
			
Cordless Driver Drill 0-3,200 rpm 230 Watts	Cordless Drill 0-3,000 rpm 450 Watts	Portable Cutter 4,600 rpm 1,650 Watts	Angle Grinder Size 100 mm. 710 Watts 11,000 rpm

3.2 Installation accessories

		
Self-drilling screw (with wings) for steel Dimensions 45 mm.	Self-drilling screw for wood Dimensions 50 mm.	Acrylic putty

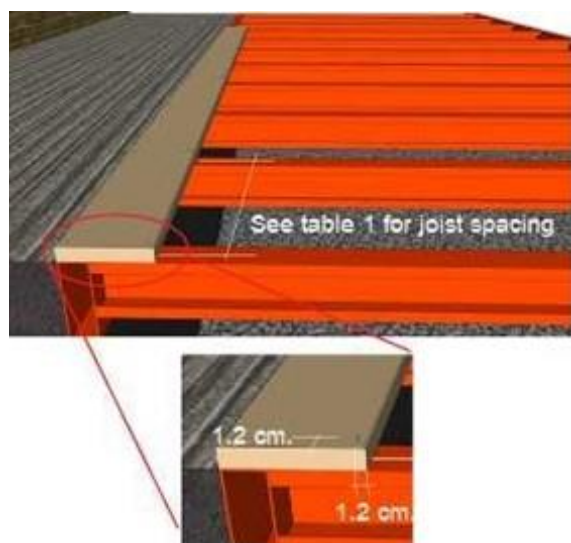
3.3 Finishing and painting

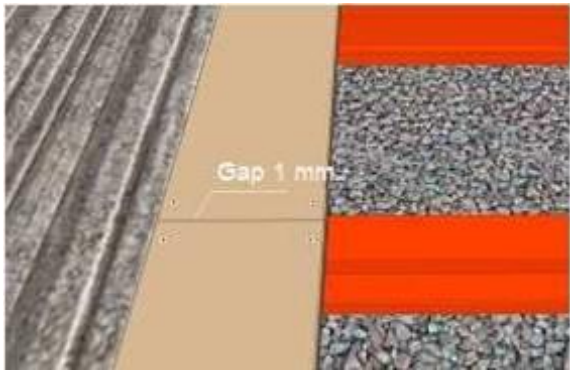
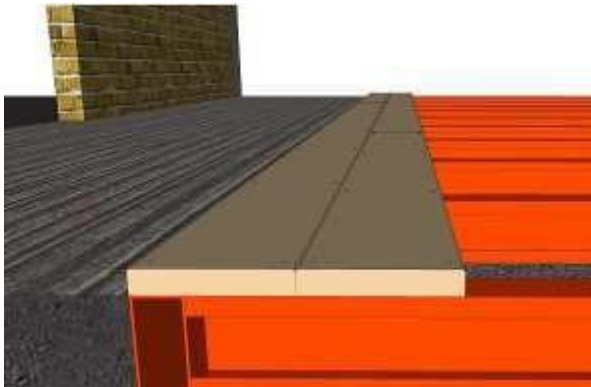
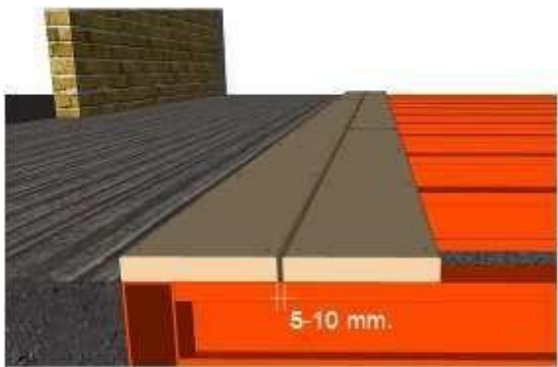
	
Caulking Gun	Polyurethane Jointing

4. INSTALLATION

4.1 PLAKDECK FLOOR on steel/wood frame with screw fixing

<u>Tools and accessories</u> Fixing: • Self-drilling screw (with wings) for steel size 45 mm • Self-drilling screw for wood size 50 mm. • Acrylic putty • Polyurethane Jointing	
	The floor joist structure must be at the specified level, define the direction of the planks (must be perpendicular to the floor joist structure). <i>Note: See table 1 for joist spacing</i>
	Install PLAKDECK Floor on the joist structure, than fix it with 45 mm self-drilling screws in the positions indicated on the left. <i>Note: For safety and workability, the screw head must be lowered 1 mm from the surface of the board after fixing.</i>



 A close-up photograph of a plank joint. A white line indicates a gap between two planks, with the text "Gap 1 mm." written above it. The planks are light brown, and the background shows a dark gravel surface and a red wall.	In the joint between each plank, leave a 1 mm gap for expansion. Fix with 45 mm self-drilling screws. (<i>see installation diagram pic. 2</i>)
 A 3D perspective diagram showing a second row of planks being installed. The planks are dark grey, and the joints are closed. The background shows a red wall and a dark gravel surface.	Install the second row: closed joints. <i>Install the next row adjacent to the previous one.</i>
 A 3D perspective diagram showing a second row of planks being installed. The planks are dark grey, and a visible groove is shown between them. The text "5-10 mm." is written below the groove. The background shows a red wall and a dark gravel surface.	Install the second row: visible groove. <i>Install the next row with a 5-10 mm joint.</i>

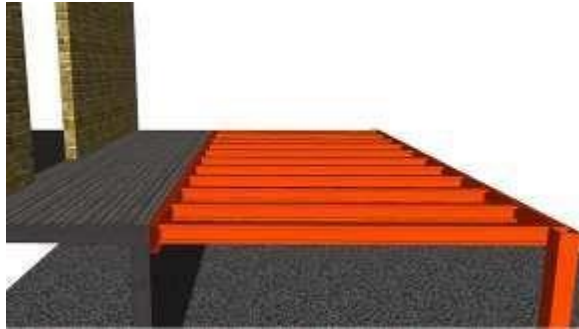
	After completing the installation, use a polyurethane jointing to seal the space between the planks. Use an acrylic putty to coat over screw heads positions.
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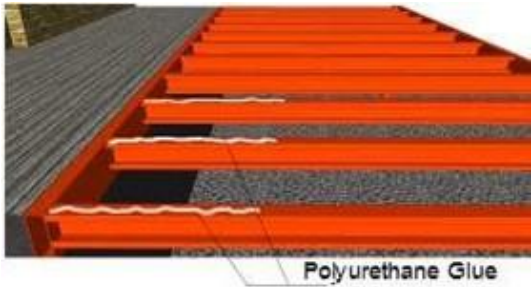
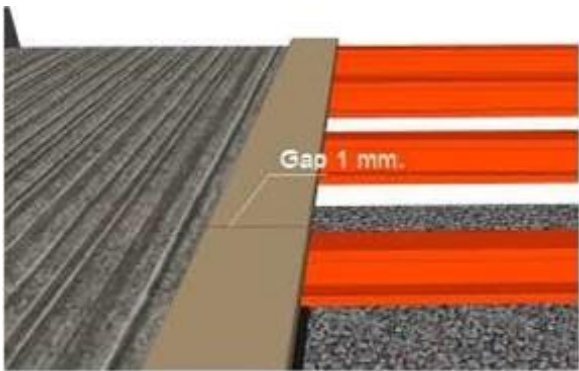
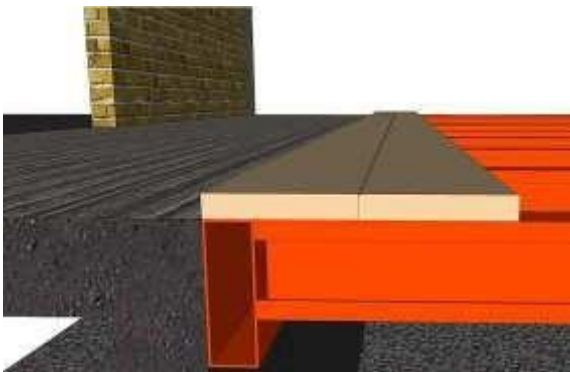
4.2 PLAKDECK FLOOR on steel/wood frame with polyurethane glue

Tools and accessories

Fixing:

- Polyurethane glue
- Acrylic putty
- Polyurethane jointing

	The floor joist structure must be at the specified level, define the direction of the planks (must be perpendicular to the floor joist structure). <i>Note: See table 1 for joist spacing</i>
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	Use the caulking gun to apply polyurethane glue along the joist structure. <i>Note: Apply polyurethane glue in a small area to prevent the glue setting.</i>
	Install the PLAKDECK Floor plank in the first row, push down and hit with a rubber hammer to improve the effectiveness of the glue. In the gap between each plank, leave a 1 mm space for expansion. Fasten with 45 mm self-drilling screws. (see installation diagram pic. 2)
	Laying the second row: closed joints. <i>Lay the next row adjacent to the previous one.</i>

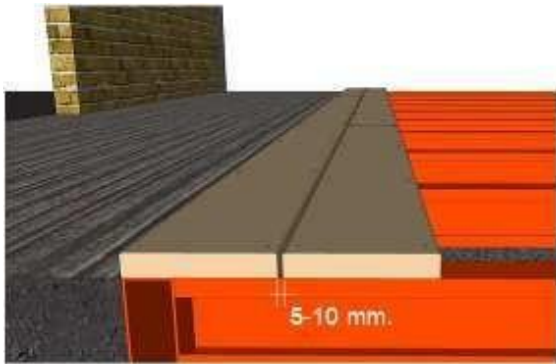
	Laying the second row: visible groove. <i>Lay the next row with a 5-10 mm joint.</i>
	After completing the installation, use a polyurethane jointing to seal between the planks. Use an acrylic putty to coat the positions of the screw heads.

Table 1: Joist spacing recommendations* for residential buildings.

Table 1	One-way joist Spacing (cm)			
Size	30	40	50	60
25x100x3000mm	✓	Not recommended	Not recommended	Not recommended
25x200x3000mm	✓	✓	✓	Not recommended
25x300x3000mm	✓	✓	✓	✓

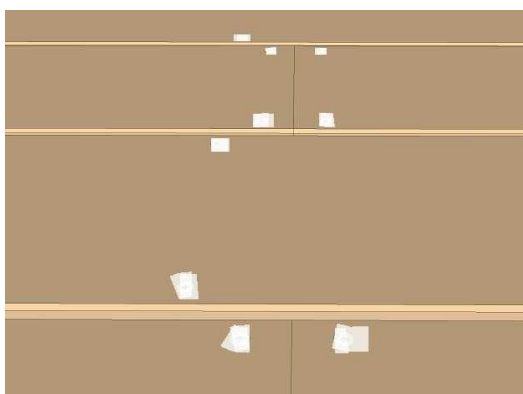
Note: The safety factor is 2.50.

* Maximum distributed load 300 kg/m^2 or maximum concentrated load not load over 60 kg.

5. PAINTING

Equipment and accessories

- Primer
- Top coat paint
- Acrylic putty
- Brush



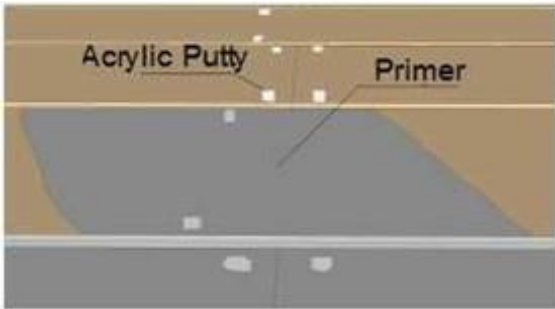
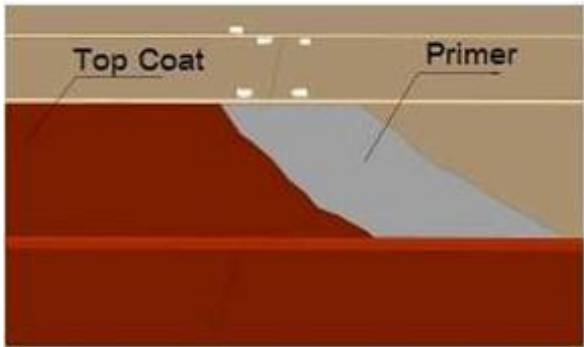
Use sandpaper to clear plank jointing.

Use acrylic putty to coat screw head and leave for 2 hours.

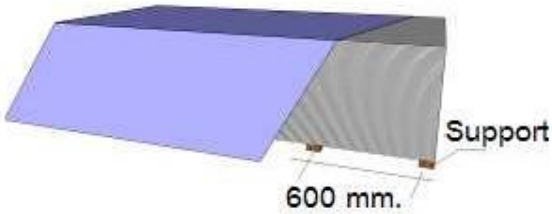
Coat again and leave to dry, then use the sandpaper to smooth the surface.



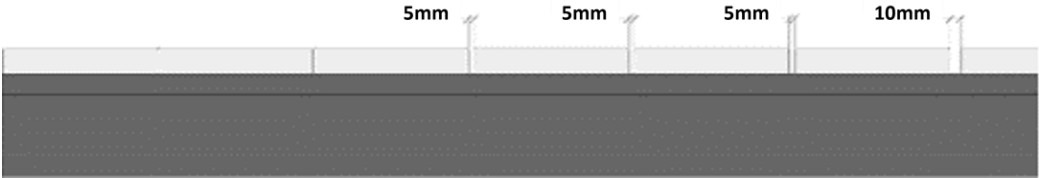
Clean the surface of dust and oil before start painting.

 The diagram shows a cross-section of a substrate with a layer of Acrylic Putty applied to its surface. A layer of Primer is then applied over the putty. Labels 'Acrylic Putty' and 'Primer' point to their respective layers.	Apply a primer coat and leave for 4 hours.
 The diagram shows a cross-section of the substrate with a layer of Primer applied. A layer of Top Coat is then applied over the primer. Labels 'Top Coat' and 'Primer' point to their respective layers.	Apply the first coat of paint and leave for 4 hours.
 The diagram shows a cross-section of the substrate with a layer of Primer applied. A layer of Top Coat is then applied over the primer. Labels 'Top Coat' and 'Primer' point to their respective layers.	Apply the second coat and leave for 4 hours. Coating with a floor hardener for long life.

6. STORAGE AND HANDLING

	Storage: Store in a dry area and cover with canvas and support it with 1.5x3 timber at a 600 mm distance from the ground.
	Handling: Hold 300 mm from the end in a vertical direction, as shown in the pictures on the left.

7. INSTALLATION DIAGRAM

On frame installation	PIC. 1 
On frame Installation	PIC. 2 