

INSTALLATION INSTRUCTIONS - CS 5.36

Indoor Sport

WOODEN SPORT FLOORINGS POWERPLAY COMBI - VINYLSPORT M COMBI VINYLSPORT M5 COMBI

STORAGE AND INSTALLATION MANUAL



Issued by Customer Service	Compiled by Fulvio D'Alessandro Luca Reinaudo	Date of first emission 09/2015	Revised by Luca Aimasso	Revisione level 04	Current revision date 03/2024
----------------------------------	---	-----------------------------------	----------------------------	-----------------------	----------------------------------

Reproduction and dissemination of this document outside the Company must be approved by the Management

INSTALLATION INSTRUCTIONS - CS 5.36

**INDOOR SPORT – WOODEN SPORT FLOORINGS – POWERPLAY COMBI - VINYLSPORT M
COMBI - VINYLSPORT M5 COMBI
STORAGE AND INSTALLATION MANUAL**

1 Receiving and Inspecting Goods

- 1.1 Immediately upon receiving goods, inspect all packages in the presence of the carrier's representative to make sure that the quantity of packages is correct, that packages are free of damage, and that labels match the Mondo commercial invoice and the packing list when available.
- 1.2 In the event of any exceptions to the quantity, condition and content of the packages, place a note on the carrier's Transport Document (B/L, CMR, AWB), and notify Mondo in writing within 72 (seventy-two) hours.

IMPORTANT

- | |
|--|
| 1.3 If Mondo is contractually responsible for the transport of the goods, Mondo accepts no liability for any shortage or mismatch of products, and for any damage to the products arising from apparent external damage to the packages, unless the problem was duly noted on the carrier's Transport Document, and notified to Mondo in writing within 72 (seventy-two) hours of receipt of the shipment. |
|--|

2 Storage

- 2.1 Product shall be stored in the original crates and/or on the original skids provided by Mondo.
- 2.2 The storage area shall be enclosed, clean, dry, well ventilated, and protected from direct sunlight, rain and the weather.
- 2.3 Unless otherwise specified on the product label, all products supplied by Mondo shall be stored at temperatures ranging between +5°C and +40°C.
- 2.4 Rolls must always be stored vertically on a flat surface, and must never be stacked.
- 2.5 Packages must always be stored horizontally on a flat surface, and must never be stacked.
- 2.6 Storage periods exceeding 6 (six) months as of the good invoice date, as well as storage in inappropriate environmental conditions and storage in incorrect position, might cause permanent damage and deformation of the products.

IMPORTANT

- | |
|--|
| 2.7 Mondo accepts no liability for damage and defects of products stored for periods exceeding 6 (six) months as of their invoice date and/or in inappropriate environmental conditions and/or in wrong positions. |
|--|

3 Subfloor Inspection

- 3.1 Concrete subfloors must be homogeneous, smooth, hard, and solid.
- 3.2 Subfloors must be level. There shall be no depressions or high spots beneath a 4m straightedge exceeding 4mm. Depressions or high spots beneath a 1m straightedge shall not exceed 1mm.
- 3.3 Slopes and gradients of the subfloor shall meet the requirements of the relevant Sport Federation(s).
- 3.4 Concrete subfloors shall be free of surface imperfections, cracks, areas of cohesive failure.
- 3.5 Concrete subfloors shall be clean and free of cement or plaster crusting.
- 3.6 Concrete subfloors shall always be installed over a minimum 0,3mm (12mil) polyethylene moisture barrier membrane with joints overlapping by at least 20 cm. The membrane shall be turned up all walls and pillars.

Issued by Customer Service	Compiled by Fulvio D'Alessandro Luca Reinaudo	Date of first emission 09/2015	Revised by Luca Aimasso	Revisione level 04	Current revision date 03/2024
----------------------------------	---	-----------------------------------	----------------------------	-----------------------	----------------------------------

INSTALLATION INSTRUCTIONS - CS 5.36

WARNING

- 3.7 Moisture content of concrete subfloors, measured with a calcium carbide hygrometer, shall never exceed 2.5%.
- 3.8 Subfloors must be equipped with all pieces of in-ground equipment eventually required, such as sleeves, plinths, brackets, hooks, etc., properly embedded in subfloor in accordance with the manufacturer's instructions.
- 3.9 If a rubber skirting must be installed, walls must consist of plasterboards or of plastered masonry. Dry walls might show a gap of maximum 1 cm between the subfloor and the wall. Walls must be straight, smooth, and free of dimples, crusting and interruptions. Corners must be vertical, closed and at right angles.

IMPORTANT

- 3.10 Mondo accepts no liability for product damage caused, totally or partially, by faulty design, construction or performance of the support/underlying/adjacent structures, and by moisture or alkali migration through the subfloors.

4 Subfloor Preparation

- 4.1 Remove any cement or plaster crusting.
- 4.2 Depressions must be leveled with suitable cement-based products, applied according to the manufacturer's instructions.
- 4.3 High spots must be removed through grinding. The grooved surface resulting from grinding shall be levelled with suitable cement-based products, applied according to the manufacturer's instructions.

IMPORTANT

- 4.4 Mondo accepts no liability for product damage caused, totally or partially, by incorrect or insufficient subfloor preparation.

5 Environmental and Site Conditions

- 5.1 The installation area shall be enclosed, with all windows installed.
- 5.2 The installation area shall be clean, dry, well ventilated, with constant ambient temperature ranging between +15°C and +25°C and constant relative humidity ranging between 45% and 60%.
- 5.3 Materials must be stored at the laying temperature in the installation area for at least 10 (ten) days before laying commences.
- 5.4 Prohibit traffic and the execution of any activity that might bring dust or other contaminants into the installation area.

IMPORTANT

- 5.5 Mondo accepts no liability for product damage caused, totally or partially, by installation in inappropriate environmental conditions.

6 Installation Procedure

- 6.1 Prior to cutting, gluing, installing or applying the products, verify that products are free of apparent damage or defects.
- 6.2 In the event of any exceptions to the condition of the products, notify Mondo in writing within 10 (ten) days of discovery. In such event, please wait for the instructions of Mondo before proceeding with the installation.

Issued by Customer Service	Compiled by Fulvio D'Alessandro Luca Reinaudo	Date of first emission 09/2015	Revised by Luca Aimasso	Revisione level 04	Current revision date 03/2024
----------------------------------	---	-----------------------------------	----------------------------	-----------------------	----------------------------------

INSTALLATION INSTRUCTIONS - CS 5.36

IMPORTANT

- | | |
|-----|--|
| 6.3 | Mondo accepts no liability for any apparent damage or defects of the products unless duly notified to Mondo in writing within 10 (ten) days of discovery, and prior to the execution of any cutting, trimming, gluing, installation, application, combination or any other handling, manipulation or intervention on the products. |
|-----|--|
- 6.4 Materials must be stored at the laying temperature in the installation area for at least 10 (ten) days before laying commences.
- 6.5 Place a layer of 0.1mm (4mil) polythene sheeting over the subfloor; overlap seams by a minimum of 20cm, seal seams with adhesive tape.

IMPORTANT

- | | |
|-----|---|
| 6.6 | Mondo accepts no liability for product damage caused in whole or in part by the use of adhesives that are not approved by Mondo, or that were used after the expiration date. |
|-----|---|
- 6.7 Verify with suitable electronic hygrometer that the moisture content of the polyurethane foam panels and phenolic plywood panels does not exceed 12-14%.
- 6.8 Dry-lay one layer of polyurethane foam panels over the polyethylene sheeting, and cut to fit. Place foam panels with the long side parallel to the long side of the pitch. Stagger joints between panels.
- 6.9 Dry-lay the bottom layer of plywood panels over the polyurethane foam panels, and cut to fit. Place panels with the long side parallel to the long side of the installation area. Stagger joints between panels.
- 6.10 Leave a gap of approximately 10mm between adjacent panels, and keep a distance of 30 to 40mm from any obstacle (perimeter walls, pillars, steps, etc.) to compensate for any expansion and to guarantee adequate ventilation of the flooring.
- 6.11 Dry-lay the top layer of plywood panels over the bottom layer, and cut to fit. Place panels at an angle of approximately 70 ° with respect to the panels of the bottom layer in accordance with the attached Diagram 1. Stagger joints between panels.
- 6.12 Leave a gap of approximately 10mm between adjacent panels, and keep a distance of 30 to 40mm from any obstacle.
- 6.13 Use Mapei Adesilex LC/R water-based adhesive to glue the two layers of plywood together. Always check the expiration date.
- 6.14 Dilute Mapei Adesilex LC/R water-based adhesive 50/50 with water and mix using a low-speed drill until it is completely blended.
- 6.15 Flip the top plywood panels over, one at a time, to expose the bottom surface.
- 6.16 Apply the adhesive to the bottom surface of the panel with a polyester paint roller, pile height 15 mm.
- 6.17 The correct consumption rate is approximately 0,30 Kg of water emulsion per square meter of plywood.
- 6.18 Immediately flip back the panel, place it in position and screw it to the bottom layer of plywood with wood screws, according to the attached Diagram 2.
- 6.19 Skim-patch the plywood sub-base with epoxy-polyurethane or polyurethane adhesives approved by Mondo (Mondo PU300, Mapei G19 and Italkem Kem Pur S), applied in accordance with the manufacturer's instructions. Always check the expiration date.
- 6.20 When removing rubber or PVC rolls placed vertically on skids, always use suitable tilting trolleys. Never tip the rolls on the ground by pivoting on the base of the roll, as this may cause permanent deformation of the selvedge. Handle rolls using unrolling trolleys.

Issued by Customer Service	Compiled by Fulvio D'Alessandro Luca Reinaudo	Date of first emission 09/2015	Revised by Luca Aimasso	Revisione level 04	Current revision date 03/2024
----------------------------------	---	-----------------------------------	----------------------------	-----------------------	----------------------------------

INSTALLATION INSTRUCTIONS - CS 5.36

IMPORTANT

6.21 Mondo accepts no liability for product damage caused, totally or partially, by incorrect handling inside or outside the installation area.

6.22 Rubber and PVC floorings must be dry-laid and cut to fit prior to any adhesion. Overlap long seams by a minimum of 1cm; head seams should be staggered and overlapped by a minimum of 10cm.

IMPORTANT

6.23 Permanent deformations caused by improper storage or handling may require total or partial replacement of the products or additional overlapping and trimming at the customer's or installer's charge, as the case might be.

6.24 To ensure proper acclimatization of the materials, dry-lay the flooring about 24 hours before starting the installation.

6.25 Trim long seams using the edge of one roll as a guide to trim the edge of the adjacent roll. During the operation, it is important that the material stay still. After trimming, verify that adjacent rolls match perfectly.

6.26 Install the floor using only epoxy-polyurethane or polyurethane adhesives approved by Mondo, (Mondo PU300, Mapei G19 and Italkem Kem Pur S), applied in accordance with the manufacturer's instructions. Always check the expiration date printed on the package.

6.27 The adhesion of the floor shall start only after trimming all long seams.

6.28 Roll back the first row of material starting at one end to approximately 1 meter from the head seam.

6.29 Apply the adhesive until approximately 1cm from the edge of the roll. When applying adhesive under the adjacent roll, lift the edge of the first roll and apply adhesive 1 cm underneath it.

6.30 After applying the adhesive, unroll the material into the fresh adhesive taking care to match the adjacent roll.

6.31 Press carefully the surface of the material with a smooth spatula taking care not to place the other hand on the floor.

6.32 To complete the installation trim the first edge of the head seams with the assistance of a good straightedge; then cut the second edge by using the first straight cut side as a guide. Cuts must be slightly inclined (beveled) to guarantee perfect head seams.

6.33 When starting the second row proceed as described in item 6.21.

6.34 Sew the seams with masking tape, apply protective strips and load seams with concrete bricks.

6.35 PVC floorings require heat-welding.

6.36 Install the threaded aluminum rings for the volleyball posts and screw them to the flooring.

6.37 Connect any vented cove wall base to the walls only, to allow for the natural contraction and expansion of the flooring.

7 Game Lines Application

7.1 Game lines shall be painted with two-component paint approved by Mondo (Mondo P10) applied in accordance with the manufacturer's instructions. Always check the expiration date.

IMPORTANT

7.2 Mondo accepts no liability for product damage caused in whole or in part by the use of paints that are not approved by Mondo, or that were used after the expiration date.

7.3 Mark off the floor in accordance with the rules of the relevant Sport Federation(s) and apply masking tape on both sides of the lines.

Issued by Customer Service	Compiled by Fulvio D'Alessandro Luca Reinaudo	Date of first emission 09/2015	Revised by Luca Aimasso	Revision level 04	Current revision date 03/2024
----------------------------------	---	-----------------------------------	----------------------------	----------------------	----------------------------------

INSTALLATION INSTRUCTIONS - CS 5.36

- 7.4 In the case of rubber floors, the surface between the tapes that are to receive paint must be abraded using sand paper to ensure grab of the paint.
- 7.5 Clean the surface between the tapes and apply paint with a 50mm wide sponge roller.
- 7.6 Remove masking tape immediately after the paint has been applied, and has become "tacky" to the touch. The tape will be difficult to remove if paint is allowed to fully cure and ragged edges will likely occur. When removing tape pull it up back against the game line to prevent bleeding/tailing.
- 7.7 No foot traffic shall be allowed on the material for a period of 24 hours after the installation.
- 7.8 Newly installed floors must be protected from traffic and pollution caused by other construction activities. If necessary place protection sheets or planks.

IMPORTANT

- | |
|---|
| 7.9 Mondo accepts no liability for product damage caused, totally or partially, by other construction activities. |
|---|

IMPORTANT

- | |
|--|
| 7.10 Mondo accepts no liability for product damage caused, totally or partially, by use of improper on non-authorized installation or line marking procedures. |
|--|

8 Operating Environmental Conditions and Maintenance Procedures

- 8.1 Wooden sports floorings, as well as any sports flooring system that incorporates wooden parts, require unique environmental conditions and maintenance procedures.
- 8.2 The facility shall be enclosed, with all windows installed.
- 8.3 The facility shall be clean, dry, well ventilated, with ambient temperature ranging between +15°C and +25°C, and relative humidity ranging between 45% and 60%.
- 8.4 Avoid sudden changes in temperature (for example between night and day) exceeding 10°C.
- 8.5 Protect the sport flooring from direct sunlight. Use curtains or UV-resistant film on large glass doors and windows.
- 8.6 Maintain the above-mentioned environmental conditions when the facility is not in use.

IMPORTANT

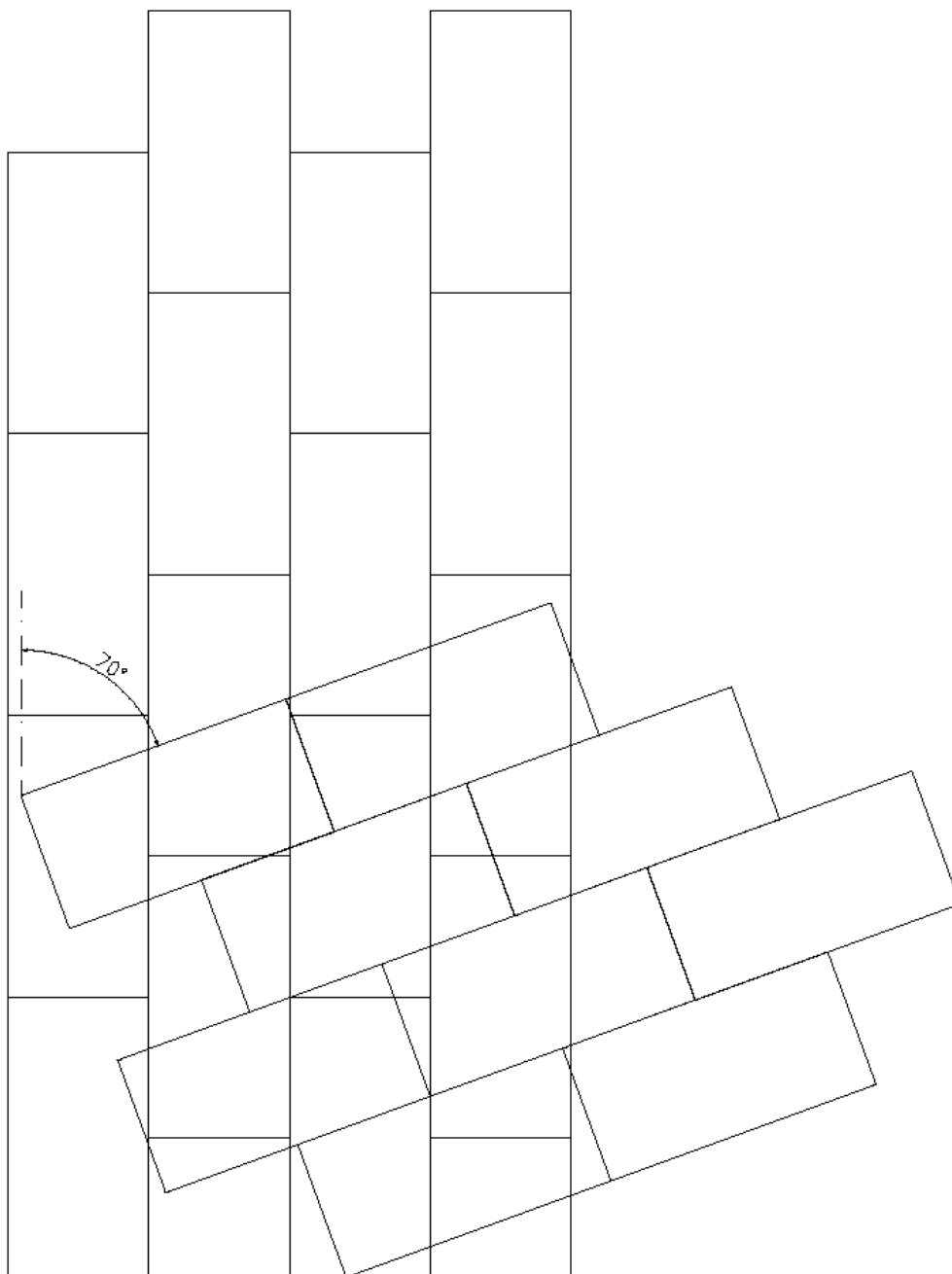
- | |
|--|
| 8.7 It is the Owner's responsibility to install the protection, ventilation and air conditioning systems eventually required to maintain the above-mentioned environmental conditions, and to install a thermometer and a hygrometer to continuously monitor and record temperature and relative humidity. |
|--|

IMPORTANT

- | |
|--|
| 8.8 Storage periods exceeding 6 (six) months as of the invoice date; environmental conditions during storage, installation, line marking or operation other than those specified by Mondo; the use of storage, installation, line marking or maintenance procedures not approved by Mondo; the use of adhesives, paints, detergents or other chemicals not approved by Mondo; the use of the floor for purposes other than the sport activities for which the flooring is intended; flooding or infiltration of water and/or liquids of any kind; the execution of technical interventions without prior authorization by Mondo, will immediately void the Mondo warranty. |
| 8.9 Please refer to the Operation and Maintenance Manual CS 7.1 for more details. |

Issued by Customer Service	Compiled by Fulvio D'Alessandro Luca Reinaudo	Date of first emission 09/2015	Revised by Luca Aimasso	Revisione level 04	Current revision date 03/2024
----------------------------------	---	-----------------------------------	----------------------------	-----------------------	----------------------------------

INSTALLATION INSTRUCTIONS - CS 5.36

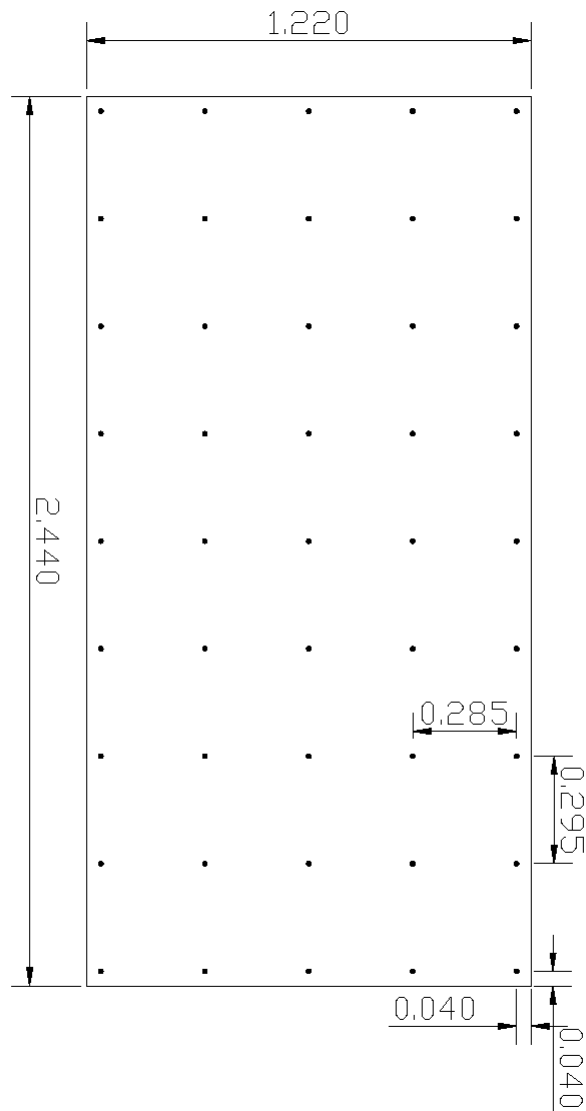
Diagram n° 1

Issued by Customer Service	Compiled by Fulvio D'Alessandro Luca Reinaudo	Date of first emission 09/2015	Revised by Luca Aimasso	Revisione level 04	Current revision date 03/2024
----------------------------------	---	-----------------------------------	----------------------------	-----------------------	----------------------------------

Reproduction and dissemination of this document outside the Company must be approved by the Management

INSTALLATION INSTRUCTIONS - CS 5.36

Diagram n° 2



Issued by Customer Service	Compiled by Fulvio D'Alessandro Luca Reinaudo	Date of first emission 09/2015	Revised by Luca Aimasso	Revisione level 04	Current revision date 03/2024
----------------------------------	---	-----------------------------------	----------------------------	-----------------------	----------------------------------

Reproduction and dissemination of this document outside the Company must be approved by the Management