



INSTALLATION GUIDE

Version 1

BASIC INSTALLATION DOCUMENT OF THE SKYFRAME SYSTEM WITH PORCELAIN TILES

EQUIPMENT

- Cordless Drill
 - Tape Measure
 - Tile Saw - Diamond Blades
 - Level
 - Core Drill - Diamond Blades
 - Site PPE
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1. Carry in Frames

- Bring the SkyFrame modules onto the roof and position them according to the layout drawing.
- Ensure each frame is the correct way up and aligned with the design grid.

2. Mark Out Pedestal Locations

- Using the layout sheet, mark where each pedestal needs to sit.
- Pedestals are positioned where two frames meet, at corners, and along edges.
- Edge pedestals sit inside the frame line; corners use angle brackets to help locate the pedestal positions.

3. Rooftop Load Spread & Protection

- On a rooftop, pedestals sit on top of the roof protection layer, not in excavated pads.
- A load-spread plate or pressure-distribution pad (typically 300×300 mm or larger) is placed beneath each pedestal to protect the waterproofing and distribute weight.
- If the roof has lower load capacity or softer insulation, increase pad size to 450×450 mm to reduce point load.
- The load spreads downward at approx. 45°, so the highest pressure is directly beneath each pedestal.
- Ensure the protection layer is intact and suitable for point loads.

4. Install Separation / Protection Layer

- Lay a landscaping or geotextile matting layer across the working area.
- This protects the waterproofing and prevents abrasion from pedestals and frames.



5. Set Pedestals & Find Finished Height

- Position all pedestals according to the marked layout.
- Adjust each pedestal to the required finished height.
- Level across pedestals using a long spirit level or laser.

6. Position Frames on Pedestals

- Place the SkyFrame modules onto the pedestals.
- Align the frames so they sit flush and follow the layout grid.
- Frames are manufactured square and include corner brackets to maintain geometry.
- Transport can cause slight movement, but this is easily corrected at this stage.

7. Fix Frames Together

- Once aligned, connect frames using self-tapping hex screws.
- Accurate pedestal levelling makes this step easier – if a pedestal is slightly high, it can lift one frame corner.
- Keep checking levels and adjust pedestals as needed.

8. Final Level Check

- Use spirit levels for small areas, but be mindful of slight deviations where frames intersect.
- For larger terraces, use string lines to level across the perimeter and over key pedestal lines.
- Ensure frames sit directly above pedestal positions.
- Check the entire frame assembly for square by measuring diagonally corner-to-corner.
- Adjust with a light knock if required – frames move easily until loaded.

9. Tile Installation

- Begin tiling one tile in from each outer edge.
- Measure to ensure correct positioning and perimeter allowance.
- Support each tile corner with a tile alignment pad, ensuring the 2 mm tab sits flush against the tile.
- Once alignment pads are placed, continue laying tiles in straight lines, keeping everything square to the frame.

