CNZ Insulation PIR Storage, Handling and Site Protection Guide

Purpose

CNZ Insulation PIR boards are manufactured as rigid insulation products designed to provide long-term thermal performance and dimensional stability when stored, handled and installed correctly.

Correct storage and handling is important from the time the product is delivered to site until installation.

Improper storage — including prolonged exposure to direct sunlight, rain or other weather, uneven support, or boards being left unrestrained before installation — may result in bowing, distortion, damage to facings or deterioration of the overall condition of the product.

This guide sets out the minimum recommended storage and handling requirements for CNZ Insulation PIR boards.

1. STORE UNDER COVER

PIR boards should preferably be stored inside a building, warehouse or other dry, covered area.

Where indoor storage is not available, boards must be protected from weather using a suitable waterproof cover or temporary shelter.

Boards must not be left exposed to rain or prolonged outdoor weather conditions.

Any protective covering should be securely fixed while still allowing appropriate ventilation around the stored product.

Do not allow water to collect on top of or underneath stored packs.

2. PROTECT FROM DIRECT SUNLIGHT

PIR boards must not be left in prolonged direct sunlight prior to installation.

Direct solar exposure can cause significant differences in surface temperature across a board or stack of boards. This can contribute to temporary distortion or bowing, particularly where one surface or part of the board is heated more than another.

Boards removed from protective packaging should therefore be installed promptly or returned to suitable covered storage.

Do not use the construction site as long-term outdoor storage.

3. STORE BOARDS FLAT

Boards must be stored:

- Flat and horizontal.
- On a clean, dry and level surface.
- Fully and evenly supported.
- Clear of the ground.
- Away from standing water or areas where water may accumulate.

Where bearers or pallets are used, they should provide even support across the pack and should not create unsupported areas that allow the boards to sag or bow.

Do not store boards directly on uneven ground.

Do not lean boards against walls, fences, containers or other structures for extended periods.

4. KEEP PACKS SUPPORTED AND RESTRAINED

Where possible, boards should remain in their original pack until required for installation.

Stacks should remain square, level and adequately supported.

Do not allow individual boards or partially opened packs to remain unsupported where wind, heat or uneven loading can cause movement or distortion.

Where required, lightly restrain the stack to maintain the boards in a flat position. Restraints must not be overtightened to the point that they crush or mark the board edges or surfaces.

5. PROTECTION FROM RAIN AND MOISTURE

CNZ PIR insulation has a closed-cell core and is designed to provide good resistance to moisture uptake. However, this does **not** mean that boards should be stored outdoors without weather protection. The product literature describes the rigid closed-cell core as moisture resistant while separately requiring boards to be protected from rain and standing water.

Rain and prolonged wet conditions can affect:

- Board facings.
- Packaging.
- Adhesion of laminated surfaces.
- Cleanliness of the product.
- Subsequent installation and adhesion.
- The condition of stacked boards.

If a pack becomes wet, remove or open wet packaging where appropriate and allow the boards to dry in a covered, ventilated area before installation.

Do not install boards where there is visible water trapped between board surfaces or where the board condition has been compromised.

6. HANDLING ON SITE

PIR boards are lightweight and should be handled carefully.

When moving boards:

- Lift boards rather than dragging them.
- Carry larger boards with sufficient personnel to prevent excessive flexing.
- Avoid dropping boards or damaging corners and edges.
- Do not drag boards across concrete, scaffolding or other rough surfaces.
- Keep boards clear of sharp objects.
- Do not walk on unsupported boards.
- Protect finished facings from scratches and impact.

CNZ's existing installation guidance similarly requires boards to be handled carefully and not dragged across rough surfaces.

7. BOARDS WAITING FOR INSTALLATION

Only remove the quantity of boards required for the immediate installation work.

Boards waiting to be installed should remain:

FLAT — DRY — COVERED — SUPPORTED — OUT OF DIRECT SUNLIGHT

Do not distribute boards around a roof, floor or construction site significantly in advance of installation unless they remain properly protected and supported.

Where boards are temporarily placed outdoors during installation, minimise the duration of exposure and protect them from direct sun and unexpected rain.

8. BOWED OR DISTORTED BOARDS

If a board is found to be bowed before installation, first check how the product has been stored.

Do not assume that visible bowing is a manufacturing defect where boards have been:

- Left in direct sunlight.
- Exposed to weather.
- Stored on uneven supports.
- Leaned vertically for extended periods.
- Partially supported.
- Left loose or unrestrained outdoors.

Where a board has experienced temporary distortion from storage conditions, place it flat on a clean, level and fully supported surface in a dry, shaded environment and allow the board temperature and condition to stabilise before assessing it.

If significant bowing remains after the board has stabilised, contact CNZ Insulation before installation.

Photographs showing the board, packaging, storage location and supporting surface should be supplied where a product assessment is requested.

9. DELIVERY AND SITE RESPONSIBILITY

PIR boards should be inspected when delivered.

Any visible transport damage or product concerns should be noted promptly and reported to CNZ Insulation.

Once delivered, the purchaser, builder, installer or site operator is responsible for ensuring that the boards are appropriately unloaded, protected, stored and handled.

Damage, deterioration or distortion resulting from inappropriate site storage, prolonged exposure to sunlight or weather, standing water, inadequate support or improper handling may not constitute a manufacturing defect.

10. SITE STORAGE CHECKLIST

Before leaving PIR boards on site, confirm:

✓ Boards are stored flat.
✓ Boards are fully and evenly supported.
✓ Boards are raised clear of the ground.
✓ Boards are protected from rain.
✓ Boards are protected from direct sunlight.
✓ Water cannot collect under or on top of the pack.
✓ Packs are stable and appropriately restrained.
✓ Boards are not leaning against a wall or structure.
✓ Protective packaging is intact.
✓ Opened packs are re-covered after use.
✓ Boards are only removed from storage when required for installation.

IMPORTANT

CNZ Insulation PIR boards are building products and must be stored accordingly. They are not intended for prolonged unprotected outdoor storage.

Exposure to direct sunlight, rain, standing water, uneven support or inappropriate storage can affect the appearance and dimensional condition of boards before installation.

Correct storage and handling protects the product and helps ensure the boards arrive at installation in the condition intended by the manufacturer.

Store Flat. Keep Dry. Keep Covered. Protect From Sunlight

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