



Gilt Edge Industries Ltd<sup>®</sup>

# TECHNICAL DATA SHEET

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## CNZ SHEET UNDERLAY PRODUCT DATA & INSTALLATION

CNZ 5 Ply underlay (CODE: 1111) is an international grade top quality sheet underlayment, designed to provide the ideal substrate for sheet floor coverings.

### Requirements

To ensure that your floor meets the required level of performance you must follow these installation instructions along with the instructions of the top surface flooring material supplier and the adhesive supplier. To be read in conjunction with current NZ/AS Flooring Standards.

### Storage

CNZ underlay must be stored flat under cover and on timber bearers spaced at a maximum of 600mm. Storage in direct sunlight, damp locations or hot dry buildings should be avoided.

### Inspection

Adequate under floor ventilation is essential to prevent distortion and excessive movement of the sub floor, underlay and top surface. This is particularly important where impervious top floor coverings are used as these prevent the escape of moisture through the floor, resulting in eruption of the flooring.

Before ply is delivered to a jobsite the site itself must be as close to the final environment as possible. The structure should be fully enclosed with doors and windows in place and interior climate controls should be operating for 48 hours to stabilise the conditions of the interior. Moisture contents of both the flooring and the subfloor and timber structural supports must be checked and recorded before any work begins.

Any existing timber, plywood or particleboard sub floors which are to be used as a sub floor for ply installation need to be filled, sanded and structurally sound.

CNZ underlay is manufactured to stringent quality standards; however final inspection of each panel is the responsibility of the installer prior to installation. Make sure each panel is free of defects.

### Acclimatisation

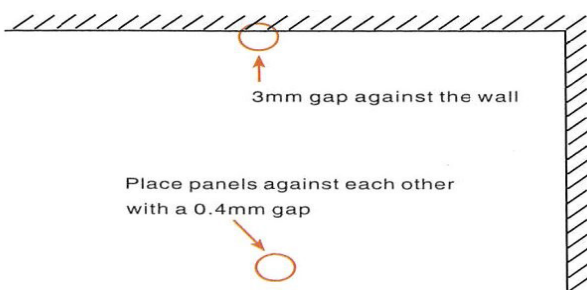
CNZ Underlay must be acclimatised before installation.

Installers must know what the moisture content of the flooring is at the time of delivery and what its expected moisture content will be "in use". A moisture meter should be used to determine the moisture content of not only the ply underlay but also the sub floor and concrete slab (if any) beneath it. Only after getting satisfactory moisture measurements from the sub floor and only after the ply has acclimatised to the jobsite is the material ready to install.

To assist acclimatisation, separate the ply underlay panels and stand vertically on end in each room where they will be installed for at least 24 hours. It is important to allow air circulation on both sides of the panel. Acclimatisation may not be necessary if the moisture content of the ply is similar to the job site environment.

### Layout

Lay out of the underlay before fastening to establish the best fit in the room. CNZ underlay edges should be located a minimum of 20cm from the sub floor joints. Place the panel edges together with a 0.4mm gap but ensure that they are staggered at half panel intervals so that four corners never meet. Measure and mark panels which need to be cut. Leave a 3mm gap between the panel edge and the wall to allow for expansion. Fit factory cut edges to each other. Job site cuts should face the wall and never be positioned against factory cuts.



### Cut to Size

Use a heavy duty bladed utility knife to score the surface of the underlay where the cut is required. It should break cleanly at the score. If the panel does not break cleanly then cut to size.

Panels can also be cut from the backside using a circular saw with a fine tooth blade. To minimise splintering adjust the saw blade no more than 3/8" through the underlay. For irregular cuts cut from the backside using a jig saw with a fine tooth blade.

### Fixings to lay on top of a Particleboard Floor

25mm x 2.5mm head ring grooved buttress type underlay nails.

22mm resin coated staples.

### Fixings to lay on top of a Timber sub floor

22mm resin coated staples or staples 3mm longer than the existing sub floor. Ensure that the fastener length is shallow enough so that it does not penetrate the bottom of the sub floor.

### Adhesives for Timber sub floors

In addition to fasteners the following adhesives must be used when CNZ underlay is fixed to plywood, particleboard, or pine sub-floor.

**Adhesive:** Bostik Ultraset, Giltgrip Super C or Polymer 1017

### Fastening the underlay

Before fastening place your full body weight on the panel being installed.

Begin by **fastening from one corner and work across the panel**, using each panels nail pattern as a guide. Nail or staple at 75mm intervals along the edge of each panel, 10mm from the edge of the panel and at 100mm intervals throughout the panel interior. Fasten the farthest corner last, otherwise the panel will bow and result in a failed floor.

Staples shall be driven so the crown finishes approximately 0.5mm below the sheet surface. Nails shall be driven absolutely flush with the surface of the sheet. Failure to do this can result in nail heads showing through floorcoverings.

### Nail Pattern

As per the fix markings on the CNZ underlay sheet.

### Finishing

To provide a smooth surface, sand all panel edges to a smooth finish. Patch all voids, chipped edges and gouges with a patching compound approved by the top surface flooring supplier. Allow patching to dry overnight. Once dry, re-sand and re-patch if necessary.

"Telegraphing" Seam problems are not the result of defective underlayment panels but can usually be traced to two main causes.

- Improper installation including the excessive use of patching compound and failure to sand all seams level.
- Changing site conditions including expansion from moisture entrapment or movement in the subfloor.

In case of structural movement or excessive changes in the relative humidity of the environment within the building the filling of expansion joints is not recommended.

### Specification

Dimension: 1220mm x 1220mm x 5.2mm 5 layers  
Area: 1.488m<sup>2</sup>

### Wood species

Premium pine

### Glue

EO exterior grade glue lamination

### Tolerances

± 2mm

### Moisture Control

6% -14%

