



Boise Cascade

**PARTICLEBOARD UNDERLAYMENT
LIMITED WARRANTY**

ANSI F18 or CARB Phase 2

Boise Cascade Underlayment is acceptable for use in construction covered by HUD/FHA regulations and VA loans. The product meets the specifications of the American and Canadian National Standards for flooring products (ANSI A 208.1.2009, Table B) and HUD Regulation 24 CFR Part 3280.

Boise Cascade Underlayment, when installed in compliance with the application instructions set forth on the reverse side of this warranty and used under normal and customary conditions, for a period of one year from date of application:

1. Will not split or crack when nailed or stapled.
2. Will not delaminate or warp.
3. Will not contribute to tile cracking or nail popping.
4. Will form a firm, compatible bond with tile and vinyl flooring.

This warranty does not cover minor unevenness at panel edges caused by uneven floor joists; movement of subfloor; telegraphing of foreign material from inadequate cleanup; tile shrinkage; insufficient mastic; poor workmanship by parties other than Boise Cascade or other defects resulting from failure to follow the installation instructions set forth on the reverse side of this warranty.

Within 60 days after discovery of any defect under this warranty, and before any alteration or repair is made, the owner shall notify Boise Cascade Particleboard Sales, P.O. Box 62, Boise, Idaho 83707, in writing of the noted defect and shall allow Boise Cascade at least 30 days to inspect the installation before repair or alteration is made.

If Boise Cascade determines that any of the underlayment fails to meet the above conditions, Boise Cascade will, at its option, either:

1. refund the full cost of the underlayment, adhesive, floor covering, and installation labor affected by such failure; or
2. repair or replace said installation.

BOISE CASCADE SHALL NOT BE LIABLE UNDER THIS WARRANTY FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR FOR ANY AMOUNT IN EXCESS OF THE PRICE OF THE GOODS INVOLVED, AND THE DURATION OF ANY IMPLIED WARRANTIES IS LIMITED TO THE ONE YEAR TERM OF THIS WRITTEN WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you the specific legal rights, and you may also have other rights which vary from state to state.

UNDERLAYMENT INSTALLATION INSTRUCTIONS

STORAGE & HANDLING

- A. Treat Boise Cascade Premium Particleboard Underlayment as a quality wood product.
- B. Store flat, on skids or bunks, in a dry covered area.
- C. Install the Underlayment just before the floor covering and after other interior finish work is completed and materials have dried to the moisture conditions that will be found in the structure during occupancy. DO NOT INSTALL DURING THE PERIOD OF GENERAL CONSTRUCTION.

SUBFLOOR PREPARATION

- A. Boise Cascade Premium Underlayment should be applied over appropriate code approved subfloors.
- B. The subfloor must be of wood construction and of a type and thickness that will give sufficient stiffness for the specific joist spacing used.
- C. Subfloors and joists must be dry (19% or less moisture content) when underlayment is installed.
- D. Subfloors must be fastened to the joist system in a manner to ensure rigidity and flatness.
- E. Subfloors must be thoroughly clean and free of all foreign matter and projections.
- F. All crawl spaces must be well ventilated and a minimum 6 mil vapor retarder of polyethylene or equivalent applied as ground cover to all unexcavated areas.
- G. To minimize localized over-drying of flooring components, areas over furnaces and hot air ducts must be insulated with a minimum of 1" of fiberglass or equal.
- H. Do not apply Boise Cascade Premium Particleboard Underlayment directly to cement or below grade level.

UNDERLAYMENT INSTALLATION

- A. Start laying panels in one corner of the room.
- B. Leave 3/8" between walls and edges of panels around perimeter of the room.
- C. Arrange panels in manner that four corners do not meet at one point: stagger underlayment joists at least 2" in relation to subfloor joists.
- D. Maintain moderate contact with adjacent panels along sides and edges.
- E. Structural panel subfloors should be installed with the long panel axis perpendicular to the joist system.

NAILING INSTALLATION

- A. Start nailing at the center of the panel and proceed to the edges; nail each panel completely before starting next panel.
- B. Use galvanized 4d ring-grooved nails for underlayment up to 5/8" thick; use 6d for 3/4" thickness. Fastener lengths are designed to penetrate just through the subfloor and not substantially into the floor joists to minimize nail popping caused by shrinkage of the joists.
- C. Drive nails perpendicular, not at an angle. Set all nails flush with panel surface.
- D. Space nails 6" on center around panel edges, 1/2" to 3/4" from the panel edge, and 10" on center within the panel interior.

STAPLING INSTALLATION

- A. As an alternate to nailing, galvanized divergent chisel point power driven staples may be used.
- B. Staples should be 16-gage and extend into the subfloor 3/4" and not over 1".
- C. Staples must be applied 3" on centers around panel edges, 1/2" from panel edge and 6" on centers within the panel interior.
- D. Start stapling in the center of the panel and proceed to the edges. Staple each panel completely before starting the next panel.

GLUE-NAILING INSTRUCTIONS

- A. Glue nailing the Underlayment to the subfloor provides a very stable floor system and is highly recommended for all floors and especially for those that are not to be carpeted.
- B. Use a mastic adhesive formulated for these applications. Follow adhesive manufacturer's instructions, and use a sufficient amount. Do not use solvent based subfloor and construction adhesives which may cause subsequent staining of floor coverings.
- C. Apply the glue to a clean and dry subfloor with a roller, notched trowel, or brush in a pattern that permits a 12" wide strip along each Underlayment panel end, a 3" wide strip along each panel edge, and a 6" wide strip down the center of the panel.
- D. Fasten the panels with nails or staples as previously described, except the spacing should be 6" to 8" on the center on the perimeter and 10" on center throughout the body of the panel immediately after applying the glue.

FILLING AND SANDING

- A. Drive all nails and staples flush with panel surface.
- B. Fill all depressions, gaps, chipped areas and joints with a premium quality hard setting non-shrinking patching compound; a latex type is preferred.
- C. Allow patched areas to dry thoroughly.
- D. Sand patched areas and joints with a wide belt sander.
- E. Panel joints must be matched to avoid telegraphing through the floor covering.

FINISHING FLOOR APPLICATION

- A. Select a quality floor covering of 1/8" or greater thickness with a minimum .020" wear surface. Avoid brittle yard goods and tile products.
- B. Clean Underlayment of all foreign material.
- C. Maintain room temperature above 70° for 24 hours before and 24 hours after floor covering installation.
- D. Choose a premium quality flooring adhesive recommended for use by the flooring manufacturer with wood underlayment.
- E. Apply adhesives with a notched trowel. Do not use brush or roll on techniques to apply adhesives.
- F. Apply covering before adhesive loses its tack to ensure a satisfactory bond; at least 50% adhesive transfer to the floor covering is necessary.
- G. Sheet good seams must be installed with seams at least 2" from underlayment joints.
- H. Roll the finished floor in both directions with heavy three-section roller to ensure proper bond. Brittle types of floor coverings if used although not recommended should not be rolled.
- I. For other types of flooring application, follow the manufacturer's recommendations for installation.

FLOOR MAINTENANCE

- A. Keep all traffic from newly installed floors for at least 24 hours or until adhesive bond is firmly established.
- B. Use a damp mop technique for cleaning and rinsing the finished floor.
- C. Do not flood the finished floor with water at any time.
- D. Use the floor covering manufacturers-recommended cleaners and protective coatings.

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Member of the "Composite Panel Association"