

Technical Tip

Installation of ¾" Hardwood Flooring over AdvanTech® Flooring

AdvanTech flooring is an excellent substrate for a variety of floor coverings including hardwood flooring. The following steps outline the construction sequence for hardwood flooring installation over AdvanTech flooring.

Step 1: AdvanTech flooring installation

- Joists spaced a maximum of 19.2" o.c.^a.
 - Minimum panel thickness is 23/32".
 - Install panels with long dimension perpendicular to supports.
 - Apply a continuous ¼" bead of construction adhesive to joists. Apply a small amount of adhesive to groove prior to matching tongue of adjacent panel. Use only polyurethane or solvent-based adhesives which conform to industry standard AFG-01.
 - Use #9 wood screws or 8d ring shank, screw shank or common nails for 23/32" thick panels. Use 10d ring shank, screw shank or common nails for thicker panels. Space fasteners no greater than 6" o.c. at supported ends and no greater than 12" o.c. at intermediate supports.
 - Provide 1/8" expansion gap at 4-foot ends. T&G joint is self-spacing.
- a. Truss/joist systems spaced greater than 19.2" require a nominal 1" thick OSB subfloor, or must be installed as a 2-layer floor system. For 2-layer systems, the first layer should consist of 23/32" AdvanTech, while the second layer must be a minimum ½" plywood subfloor panel. For fastening guidelines, please see Technical Tip, [Installing 2-Layer AdvanTech® Flooring](#).

Step 2: Hardwood flooring and AdvanTech flooring acclimation

- Although AdvanTech flooring does not need to be sanded due to edge swell, some sanding may be required to ensure levelness of the floor system.
- When AdvanTech flooring is installed over a crawlspace, use 6 mil polyethylene sheeting placed over the ground and adequate ventilation should be used to help control moisture.
- Ideally the inside of a home should be HVAC controlled to help with acclimation of the wood products at the time of hardwood flooring installation.
- A pin style moisture meter or similar should be used to determine moisture contents of both AdvanTech flooring and hardwood flooring.
- The moisture content of AdvanTech flooring and hardwood flooring should be less than 12% before installing hardwood flooring.
- The difference in moisture content between AdvanTech flooring and hardwood flooring should be within 4% of each other.
- Moisture contents are critical when installing hardwood flooring. Following the above recommendations will help reduce the chances of buckling, cupping and gapping of the hardwood flooring.

Step 3: Hardwood Flooring Installation

- Make sure the AdvanTech flooring is dry, clean and free of dirt, dust and oily film prior to installing hardwood flooring.
- Ensure AdvanTech flooring is securely fastened to the joist system below.
- Install a layer of No. 15 felt or red rosin paper overlapping the edges 2-4" over the AdvanTech flooring prior to installing hardwood flooring.
- Apply the acclimated hardwood flooring perpendicular to the joist system below (note: if the hardwood flooring is to be installed parallel to the joists an additional layer of a minimum 3/8" wood underlayment should be installed).



- Hardwood flooring can be fastened to AdvanTech flooring with cleats, nails or staples. Check the fastener recommendations of the hardwood flooring manufacturer's installation instructions.
- Install hardwood flooring in accordance with manufacturer's installation instructions.

For additional resources regarding hardwood flooring installation contact:

NOFMA

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901-526-5016
www.nofma.org

NWFA

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