

Installation of Engineered Wood Flooring over AdvanTech® Flooring

AdvanTech flooring is an excellent substrate for a variety of floor coverings including engineered wood flooring (EWF). The following steps outline the construction sequence for floating, adhered, and mechanically fastened engineered wood flooring installation over AdvanTech flooring. Refer to the EWF manufacturer's instructions or the National Wood Flooring Association (NWFA) for more information.



Step 1: AdvanTech flooring installation



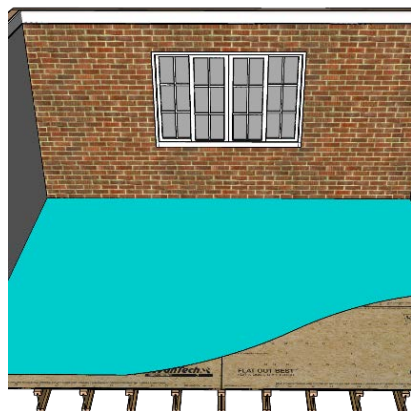
- Joists spaced a maximum of 19.2" o.c.^a.
 - Minimum panel thickness is 23/32".
 - Install panels with long dimension perpendicular to supports.
 - Apply a continuous 1/4" bead of subfloor adhesive to joists. Use only polyurethane or solvent-based adhesives which conform to industry standard AFG-01.
 - Use #8 wood screws or 8d ring shank, screw shank or common nails for 23/32" thick panels. Use #9 wood screws, 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.^b
- 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 1/2" plywood subfloor panel. For fastening guidelines, please see Technical Tip, [Installing 2-Layer AdvanTech® Flooring](#).
- b. Refer to AdvanTech installation manual for more information on panel spacing and 1/8" panel expansion gap.

Step 2: Engineered Wood 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 floating engineered wood flooring installation.
- A pin style moisture meter or similar should be used to determine moisture contents of both AdvanTech flooring and floating engineered wood flooring.
- The moisture content of AdvanTech flooring and floating engineered wood flooring should be less than 12% before installing the finish flooring.
- The difference in moisture content between AdvanTech flooring and floating engineered wood flooring should be within 4% of each other.
- Following the above recommendations will help reduce the chances of buckling, cupping and gapping of the floating engineered wood flooring.

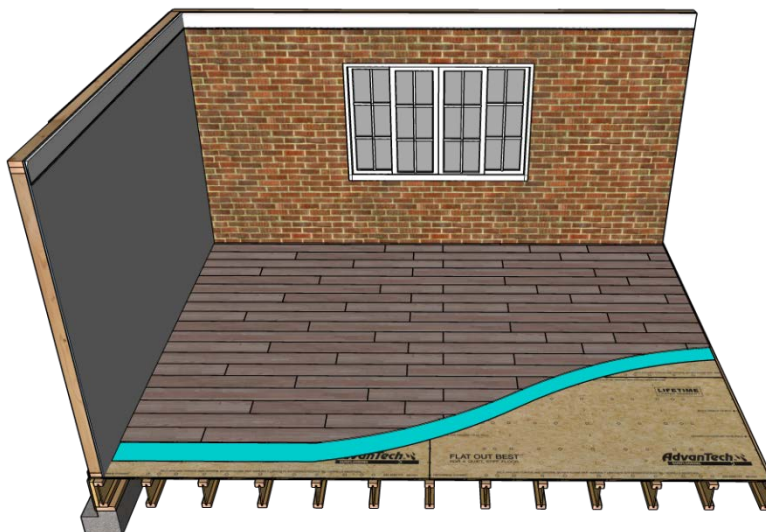
Step 3: Engineered Wood Flooring Installation

The following steps explain the different methods of installing the finished EWF. Floating, adhered, and mechanically fastened EWF can all be installed over AdvanTech flooring. Prior to installing the finished flooring, make sure the AdvanTech flooring is dry, clean and free of debris. In addition, ensure the AdvanTech is securely fastened to the joist system below.



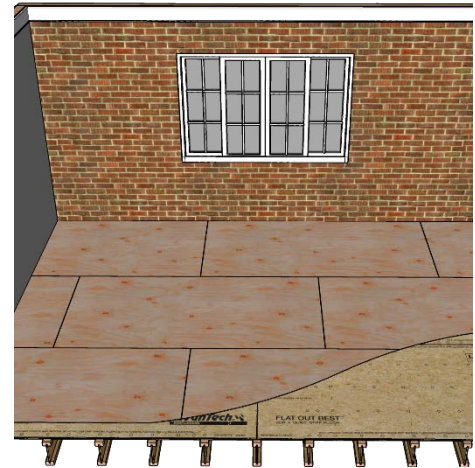
Floating Engineered Wood Flooring installation

- Install a cork or foam underlayment over the AdvanTech flooring prior to installing floating engineered wood flooring. (pictured left)
- Install floating engineered wood flooring in accordance with manufacturer's installation instructions.

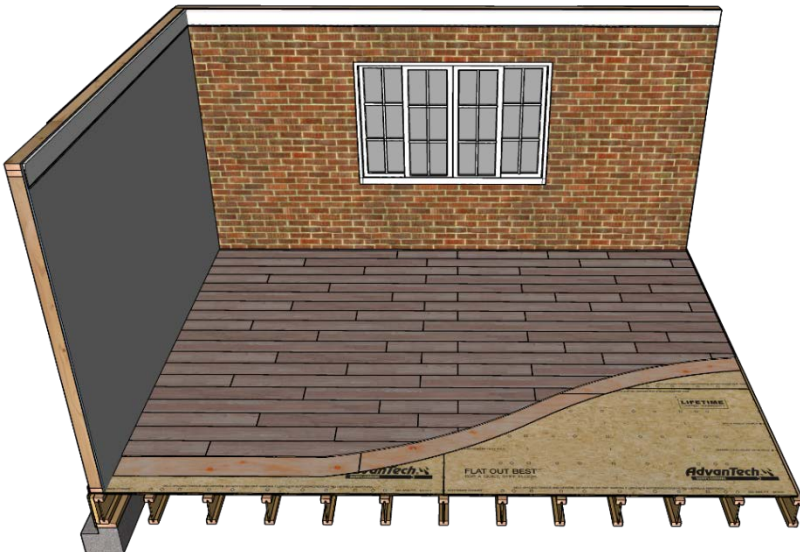


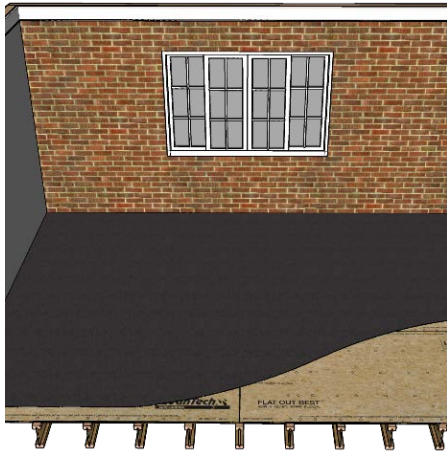
Adhered Engineered Wood Flooring installation

- Expansion space specified by engineered wood flooring manufacturer should be maintained around room perimeter.
- Select an adhesive that is compatible with AdvanTech flooring and is approved by the EWF manufacturer.^c
- It is recommended to install ¼" plywood or lauan over AdvanTech flooring (right) to prevent damage if the EWF were to be removed. Also, this will eliminate adhesive compatibility issues.
- Install EWF according to wood flooring and adhesive manufacturer's installation instructions.



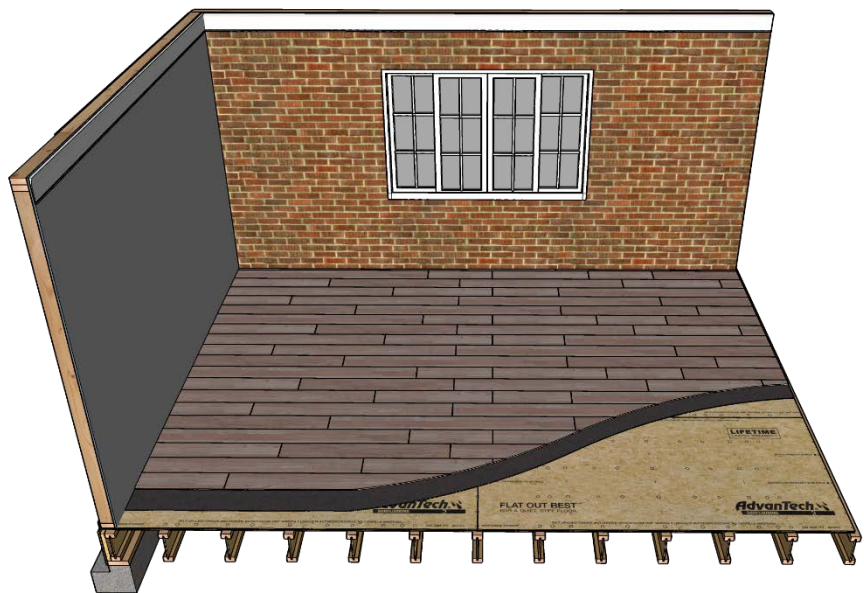
- c. Compatible adhesives with AdvanTech flooring are solvent and polyurethane-based adhesives. The use of water-based adhesives should be avoided since these types of adhesives will not bond well to AdvanTech.





Mechanically fastened Engineered Wood Flooring installation

- Install a layer of No. 15 felt or red rosin paper over the AdvanTech flooring (left) making sure to overlap the paper edges by 2-4”.
- Expansion space specified by EWF manufacturer should be maintained around room perimeter.
- Install EWF according to wood flooring manufacturer’s installation instructions.
 - Typical Fasteners: Narrow crowned (<math><3/8\text{''}</math>) staples 1”- 1½” long, or 1”- 1¼” hardwood flooring cleats. (EWF manufacturer’s requirements supersede HEW’s recommendation)
 - Typical Fastener Spacing: Staples- every 3-4”. Cleats – every 4-6”. Within 1-2” of end joints. (EWF manufacturer’s requirements supersede HEW’s recommendation)



For more information on floating engineered wood flooring and other floor coverings installed over AdvanTech, contact Huber Engineered Woods Technical Division at 800-933-9220.