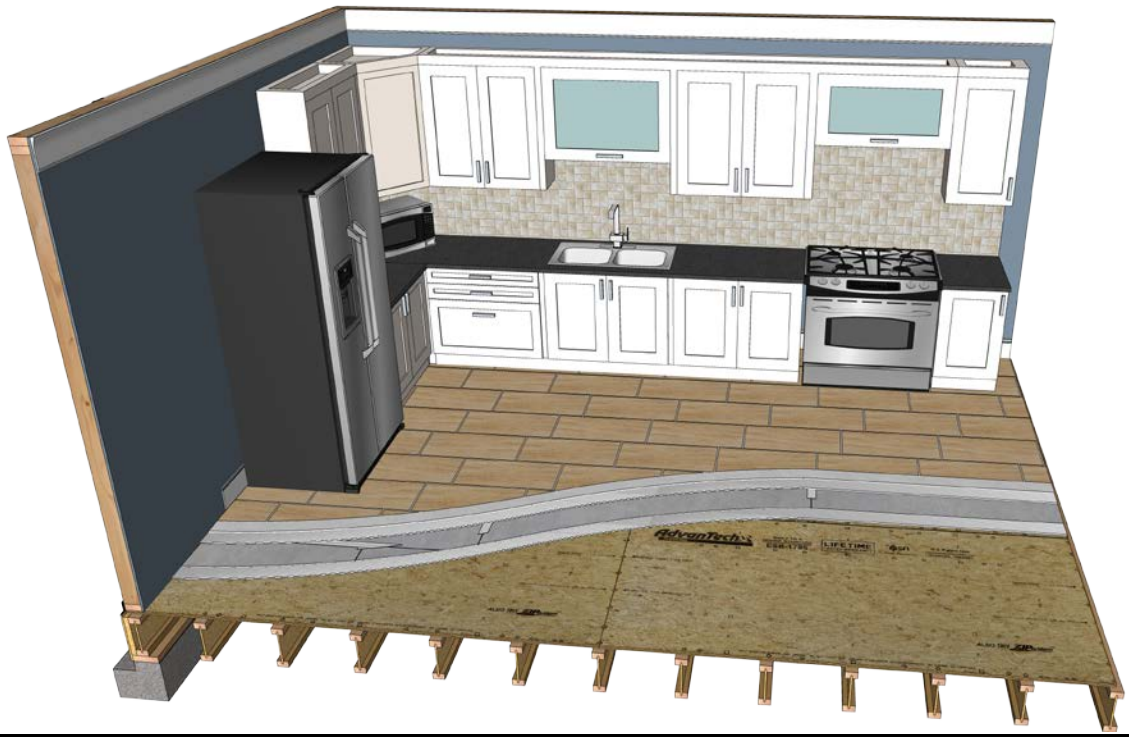
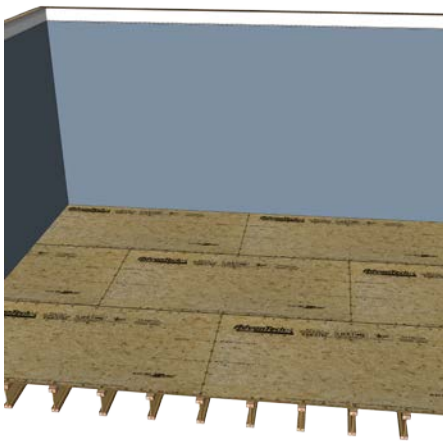


## *Ceramic Tile at 16" on center over AdvanTech® Panels*

The following steps outline the construction sequence for ceramic tile installation over AdvanTech subflooring and AdvanTech X-Factor panels. Refer to The Tile Council of North America (TCNA) Handbook for Ceramic Tile Installation for specific tile installation information. Please note, the TCNA states a 23/32" subflooring panel should not span more than 16" on center.



### *Step 1: AdvanTech Panels Installation*



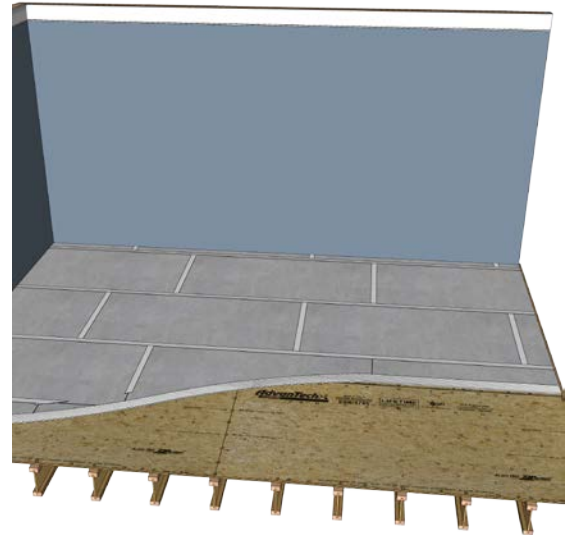
- Joists spaced a maximum 16" o.c.
- Minimum panel thickness is 23/32".
- Install panels with long dimension perpendicular to supports.
- Apply a continuous ¼" bead of construction adhesive to joists. Use only polyurethane or solvent-based adhesive which conform to industry standard AFG-01 or ASTM D 3498.
- Although code allows the use of 8d common nails, it is recommended to use 8d ring shank, screw shank or minimum #8 deck screws. Fasteners should penetrate the framing member at least 1". Space fasteners no greater than 6" o.c. at supported ends and no greater than 12" o.c. at intermediate supports in the field.
- Provide 1/8" expansion gap at 4-foot ends. T&G joint is self-spacing.
- Ensure panels are dry, clean and free of dirt, dust and oily film prior to ceramic tile installation

## Step 2: Underlayment Installation

The type of underlayment to be used is the decision of the homeowner or general contractor. The decision should be based on the type of floor construction present and size of tile being used. Various types of acceptable underlayment exist, including cement backer board and uncoupling membrane membranes. Refer to the TCNA for Ceramic Tile Installation for suitable underlayments to be used in conjunction with structural panel substrates at corresponding support spacing.

### Uncoupling Membrane

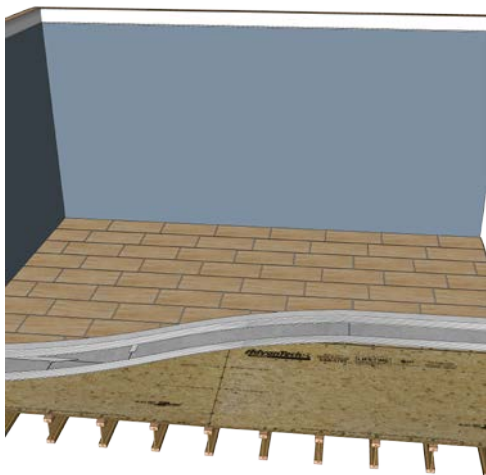
- These steps will cover the installation of an uncoupling membrane tile underlayment
- Sand any areas of the AdvanTech panels that may be uneven to ensure flatness. Vacuum all dust and debris. A commercial drum sander can be used to sand larger areas.
- Apply layer of modified thin-set mortar and install membrane according to membrane manufacturers' recommendations.



### Cement/Fiber Cement Backer Unit (CBU)

- These steps will cover the installation of the following three approved underlayment on top of AdvanTech subflooring.
  1. Cement backer board
  2. Fiber cement backer board
  3. Embedded glass reinforced gypsum tile backer board
- Sand any areas of the AdvanTech flooring that may be uneven to ensure flatness. Vacuum all dust and debris. A commercial drum sander can be used to sand larger areas.
- Apply layer of modified thin-set mortar and install CBU according to CBU manufacturers' recommendation over the AdvanTech subflooring.

## Step 3: Ceramic Tile Installation



- Apply a layer of thin-set mortar to the underlayment in straight beads using the appropriate trowel. Try to avoid making curved strokes.
- Different grades of thin-set mortar exist. For best results follow the recommendations of the TCNA Handbook and follow the recommendations of the underlayment manufacturer.
- Install tile per manufacturer's instructions.
- Refer to the latest edition of the TCNA Handbook for acceptable methods of installing ceramic tile on an AdvanTech substrate.

Note: Do not install ceramic tile directly to AdvanTech subfloor panels. An approved underlayment must be installed over AdvanTech subfloor panels prior to ceramic tile installation. Refer to the TCNA for more on ceramic tile installation.

For more information on ceramic tile and other floor coverings installed over AdvanTech panels, contact Huber Engineered Woods Technical Division at 800-933-9220.