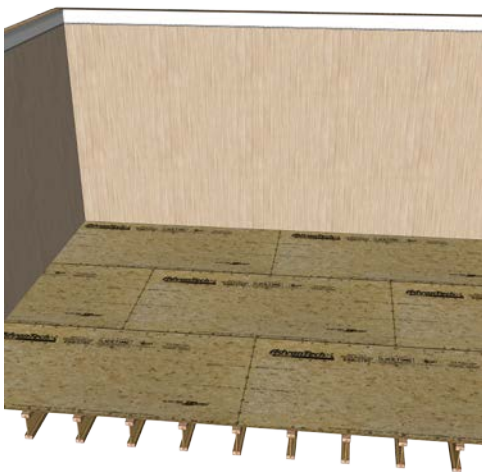


Natural Stone Tile with Mortar Bed over AdvanTech® Subflooring

AdvanTech subflooring is an excellent substrate for a variety of floor coverings including natural stone tile. The following steps outline the construction sequence for natural stone tile installation with a mortar bed over AdvanTech subflooring. Refer to The Tile Council of North America (TCNA) for Installation on specific tile installation information. Please note, when using the mortar bed approach for natural stone a minimum 23/32" AdvanTech subflooring panel over a span not greater than 16" on center.



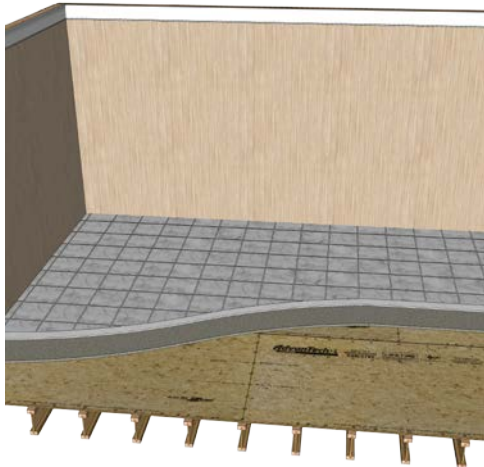
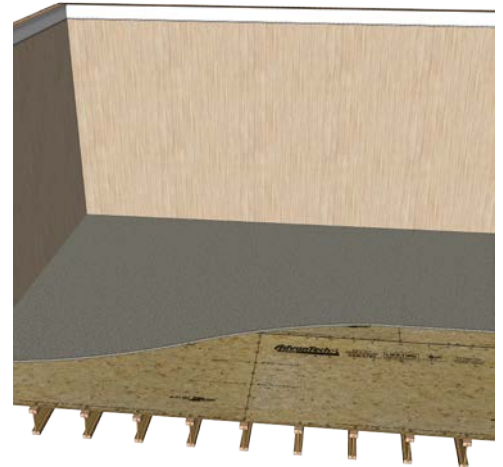
Step 1: AdvanTech Subflooring Installation



- Joists spaced a maximum 16" o.c.
- Minimum panel thickness is 23/32".
- Install panels with long dimension perpendicular to supports.
- Apply a continuous 1/4" 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 natural stone tile installation

Step 2: Mortar Bed Installation

- Minimum mortar bed thickness is 1-1/4" with a maximum mortar bed thickness of 2".
- Use a reinforcing mesh.
- For more information refer to the "Natural Stone Tile Selection and Installation Guide" from the TCNA.



Step 3: Natural Stone Tile Installation

- Apply a layer of thin-set mortar to the mortar bed 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 natural stone tile on an AdvanTech substrate.

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

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