

## Technical Tip

### Lightweight Concrete over AdvanTech® Flooring

AdvanTech flooring is an excellent substrate for lightweight concrete. The following steps outline the construction sequence for the AdvanTech flooring.

#### **Step 1: AdvanTech flooring installation**

- Joists spaced a maximum 24" o.c. using a deflection criteria of L/360, or as required by designer-of-record or concrete manufacturer for support spacing or deflection limits.
- 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 adhesives which conform to industry standard AFG-01 or ASTM D 3498.
- Use #8 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. 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.
- Provide approx. 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 lightweight concrete installation.




FORCING T&G EDGES TO FIT TIGHTLY TOGETHER CAN DAMAGE THE PANELS AND VOID THE WARRANTY. T&G EDGES ARE DESIGNED TO FIT TOGETHER EASILY WHILE PROVIDING THE INDUSTRY STANDARD 1/8" GAP BETWEEN PANELS.



**Correct installation of Advantech T&G Edge**

## **Step 2: Lightweight Concrete Installation**

- Sand any areas of the AdvanTech flooring that maybe uneven to ensure levelness. Vacuum all dust and debris. A commercial drum sander can be used to sand larger areas.
- Apply appropriate sealers and/or primers to the AdvanTech flooring according to the lightweight concrete manufacturer's recommendations for adhesion purposes.
- Apply lightweight concrete to the surface of the AdvanTech flooring in accordance with the lightweight concrete manufacturer's recommendations.

\*  CAUTION: We do not recommend using water sealers with AdvanTech®, as they may trap moisture in the panel and void the warranty.

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