

Prior to attaching Nydree Engineered Flooring to a wall or ceiling be sure to check local building fire codes. When Nydree flooring is tested using the ASTM-E84 procedure (*Standard Test Method for Surface Burning Characteristics of Building Materials*), the flooring achieves a Class C rating. This makes Nydree flooring acceptable for wall and ceiling use whenever Class C interior finishes are required by local building codes. Never use Nydree Flooring around a fireplace or wood/gas burning stove or heater.

#### Preparation

In order to attach Nydree Engineered Flooring to a wall / ceiling a sturdy plywood substrate base and an air-powered stapler is needed. Install plywood to the wall studs using the appropriate screw. Insure that all screw heads are set flush or slightly below plywood surface.

Particleboard/flakeboard/chipboard/OSB are not approved substrates. Use thick 5/8" (16mm) or 3/4" (19mm) APA-CDX grade (or better) underlayment plywood or equivalent. Allow 1/8" – 1/4"(3,2mm-6,4mm) expansion space between sheets with staggered joints.

The plywood installed on the wall / ceiling should be flat to within 3/16" in 10 feet (5mm per 3m).

Verify that the plywood is dry. The reading using a Delmhorst® J3/J4 or wood moisture meter should be less than 12%.

Permanent HVAC must be in operation (2 weeks minimum) and permanent lighting must be provided. Job site temperature should be 60 °F – 90 °F (15° – 32°C). The ideal relative humidity for wall / ceiling installation is between 30 and 55%, prior, during and after installation is completed. Keep in mind that if the relative humidity drops below 30% for extended periods, the flooring (wall/ceiling covering) could shrink causing surface splits and gaps.

Decide if the flooring will be installed vertically, horizontally or on an angle. Be sure to check if the walls are in alignment from the floor to ceiling or from wall to wall, if installing on a ceiling. Keep 1/4" (6.4mm) expansion gap around the installation area and cover with transitional moldings. Use temporary wedges, as needed.

#### Horizontal Stapling Installation Procedure - Wall

1. Groove oriented to the floor, pre-drill and face nail 1/2" (13mm) from groove edge using 6d finish nails; 2" (5 cm) from the end and at 6" (15cm) intervals. Avoid using pneumatic nailers for face nailing as this may damage the factory finish and wood. Countersink heads and fill hole with matching putty stick or cover with base molding. Make sure starting row is level.
2. Pre-drill and blind nail at a 45° angle directly above the tongue of the plank in the 1st and 2nd row, if necessary. Blind nail 1-2" (3-5 cm) from each end and at 4-6" (10-15 cm) intervals. Countersink nails so groove engages properly with the next row.
3. For the balance, use Bostitch Stapler EHF1838K with SX50351-1/4G (1 1/4" staple).
4. Proper air pressure for correctly seating fasteners can vary from job to job and the installer must set air pressure, among other, to the optimal psi for the installation. Typical air supply to the stapler is 70-90 psi, but should be adjusted as needed. Use a few sacrificial planks to adjust the air so the crown of the fastener sets flush above the tongue of the engineered flooring. DO NOT over drive or under drive the installation fasteners. Carefully inspect as you install the flooring in good lighting to assure the flooring remains free of nailing damage including, but not limited to, nail dimples.
5. Install each plank with staples 1"-2" (3-5 cm) from each end and every 4 to 6 inches (10-15 cm) along the length. **Failure to follow the required fastening schedule can result in performance issues such as buckling and gaps.**
6. The last two rows will also need to be face nailed as described above.

**IMPORTANT:** *The installer is responsible for assuring that the pneumatic stapler is properly adjusted to the thickness of the Nydree flooring and is properly functioning. Fastener(s) MUST NOT be over driven to cause damage to the board such as nail dimples, chipping, broken or split tongues, peaking or create audible squeaks, crackling or popping sounds. Failure to properly seat fasteners can interfere with drawing the board edges together. Confirm that all installation equipment is functioning properly prior to starting the installation. Nydree is not responsible for damage due to incorrect use of fasteners or pneumatic nailers.*