



Trillium® Engineered hardwoods require being installed over top of a 2:1 or 3:1 under-pad depending on the installation area. The thickness of the under-pad should be between 2mm and 3mm (1/8”). We do not recommend any particular brand since there are so many available. Under-pad type products are available from all building material retailers.

**For installations in condominium type buildings** where there are acoustical requirements, use a premium quality 3mm thick under-pad for optimal acoustical performance. Use either a 2:1 or 3:1 under-pad as you prefer. Combined flooring and under-pad acoustical performance details are noted at the bottom of this page for Trillium hardwoods.

**For installations in basements and on-grade concrete slabs**, use a 3:1 type under-pad that includes a moisture/vapour barrier to suppress humidity from the slab from coming into contact with your floor. Alternatively, you may install your Trillium floor over a rigid dimpled type of underlayment or dimpled underlayment attached to an OSB (Oriented Strand Board) panel.

**For above-grade installations (main floors & upper floors) over plywood or OSB sub-floors**, use either a 2:1 or 3:1 under-pad as you prefer. The under-pad will significantly reduce the transfer of footfall sounds from one level of your home to the other, as well as make the floor more comfortable to walk on.

**Warmer floor:** When the floor is installed over a concrete basement floor or on-grade slab, the under-pad acts as a “thermal-break” against the cold slab, slowing the transfer of the cold to the floor, resulting in a floor that will be several degrees warmer to the touch.

TEST CRITERIA	TEST STANDARD	TEST RESULT
Airborne sound transmission loss test and class.	ASTM E90-90 (2016) ASTM E413-16	Up to STC = 73
Determination of impact sound insulation class.	ASTM E492-09 (2016) ASTM E989-06 (2012)	Up to IIC = 71

The information herein is provided without warranty. It is the sole responsibility of the owner/purchaser/installer to verify the acoustical requirements where the floor is being installed and whether the floor is suitable for the area of installation.