



Designer Deck Inc.
101 PLANCHET RD. UNIT #6-7
CONCORD, ON. L4K 2C6

European Line / Tantimber Thermal Hardwood Outdoor Deck Tile

[Product Data Sheet]

Updated: Feb 26/2026



Rustic beauty marries timeless performance

Rich, luxurious hardwood deck tiles (made of North American White Ash wood) offer sophistication when making a statement with outdoor flooring designs. Designer Deck introduces our European Line/ Tantimber Hardwood product line derived from a process known as "Thermal Modification"; a 30-year-old technique that originates from Europe and has a major advantage over conventional tropical hardwoods such as Ipe, Acacia and Cumaru; commonly used in exterior flooring products. Thermal Modification involves exposing the material to high temperatures (usually 160-230C). This process permanently changes the wood's structure, rendering it superior against moisture and greatly improves the longevity of the material by reducing the dimensional movement (swelling/shrinking due to moisture) by 50-90%. The European Line is designed to withstand the harsh Canadian climate, as well as improve resistance to decay and insects. The end result, is an aesthetically pleasing product with superior dimensional stability, ease of use, sustainable sourcing and an investment that will last up to 50 years. This outdoor deck tile is ideally suited for any size balcony, terrace or patio, whether for new installation or renovation (area resurfacing), including low and high-rise residential, hospitality and landscaped areas.



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Applications

The European Line is ideally suited for a variety of applications and harsh environments. More specifically, the product line has been designed and tested to perform on concrete surfaces typically found on condominium balconies, porches and patios, torch-down 2-ply weatherproofing for flat roof terraces, or pre-existing foundations such as a structurally sound deck.



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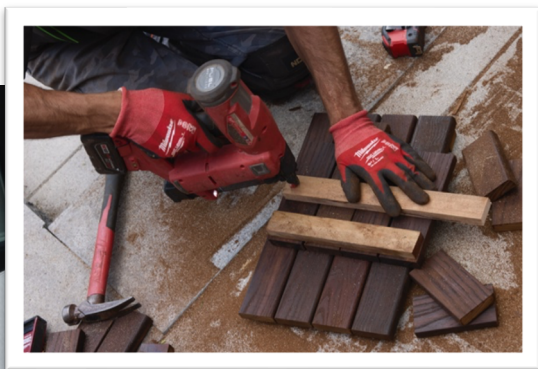
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Installation System

The European Line has been engineered to lay directly on prepared outdoor project foundations. As such, this line of deck tile intentionally follows the trajectory in a surface and is generally recommended for slopes of 2% or less. The pressure treated wood risers fastened on the back of the tile, allow for maximum water and air flow thus mitigating moisture build-up or ponding for foundations have been sloped correctly. Shimming materials such as roofing shingles can be used for flush levelling the deck tiles where foundation irregularities occur and in order to alleviate rocking in the product.





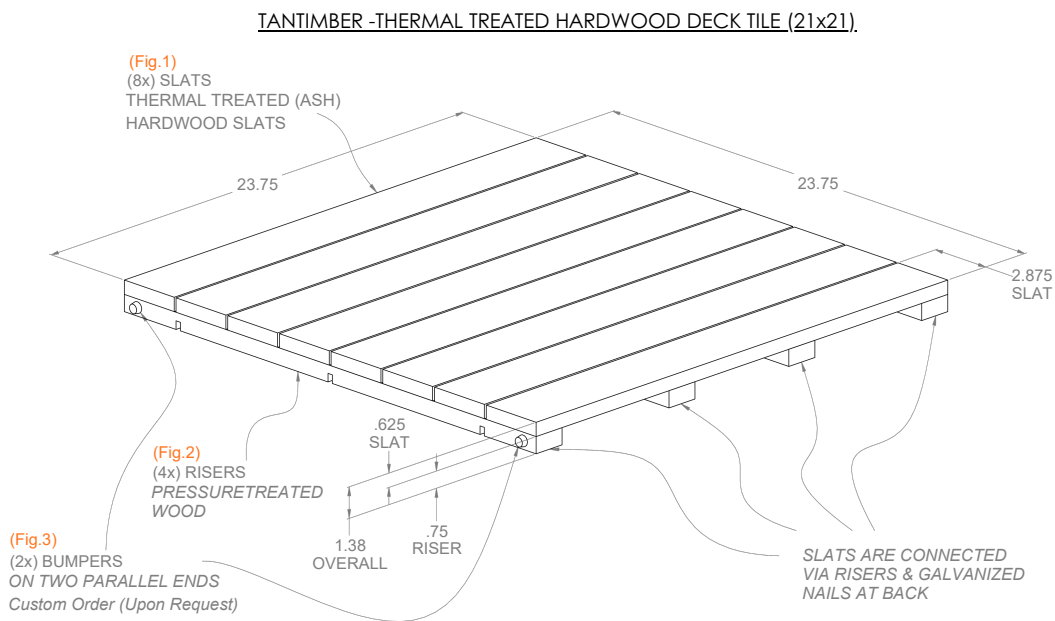
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Product Features



The European Line deck tile demonstrates superior durability and structural stability. The surface material (Fig. 1) is engineered to withstand extreme weather conditions while providing consistent protection throughout the year. Each tile incorporates multiple $\frac{3}{4}$ " pressure-treated wood risers (Fig. 2), affixed perpendicular to the underside of the surface boards, to maximize air circulation and water drainage beneath the deck system. Additional silicone bumpers (Fig.3) can be further incorporated onto the riser's side end pieces to account for preferred spacing along with accommodating expansion/contraction. These risers are adjustable and may be repositioned near cut lines, secured using embedded galvanized nails, to ensure stability prior to cutting. Hardwood surface boards are spaced $\frac{1}{4}$ " apart, facilitating unobstructed lateral and vertical water flow. The European Line deck tile is available in the following dimensions: 10" x 21", 21" x 21" and 48" x 10".



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Product Features

- A floating deck system – allows for easy access underneath for any required maintenance, as well as the ability to run low voltage wiring (i.e. for system pot lighting), and small diameter piping/irrigation lines etc. Adhesives or screws are not required to secure system to the receiving surface.
- Adhesives or screws are not required to secure the system to the receiving surface (foundation).
- The system includes ¾" pressure treated wood risers fastened underneath the surface boards, providing an ample void for maximum air/water flow.
- Low-profile design complies with building codes requirements for handrail height.
- Thermal Modification is a unique and proven treatment process that equips hardwood species with stable structural properties unlike conventional materials = very minimal expansion contraction, minimal to no water absorption when protected with oil.
- Ideally suited for exterior applications such as patio, balcony and roof terrace installations that require drainage and/or a floating deck system that is not adhered/fastened to the foundation.
- Custom manufactured in a variation in tile sizes such as 10"x 21", 21"x 21" and 10"x 48" (see "Specifications" section for actual dimensions)
- Standard warranty with 25 years of protection and upwards of 50 years with application of manufacturer's recommended oiling products.
- Product warranty ensures no defects in materials and workmanship and excluding any damage resulting from misuse, or modification to the system post qualified installation.



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Variation

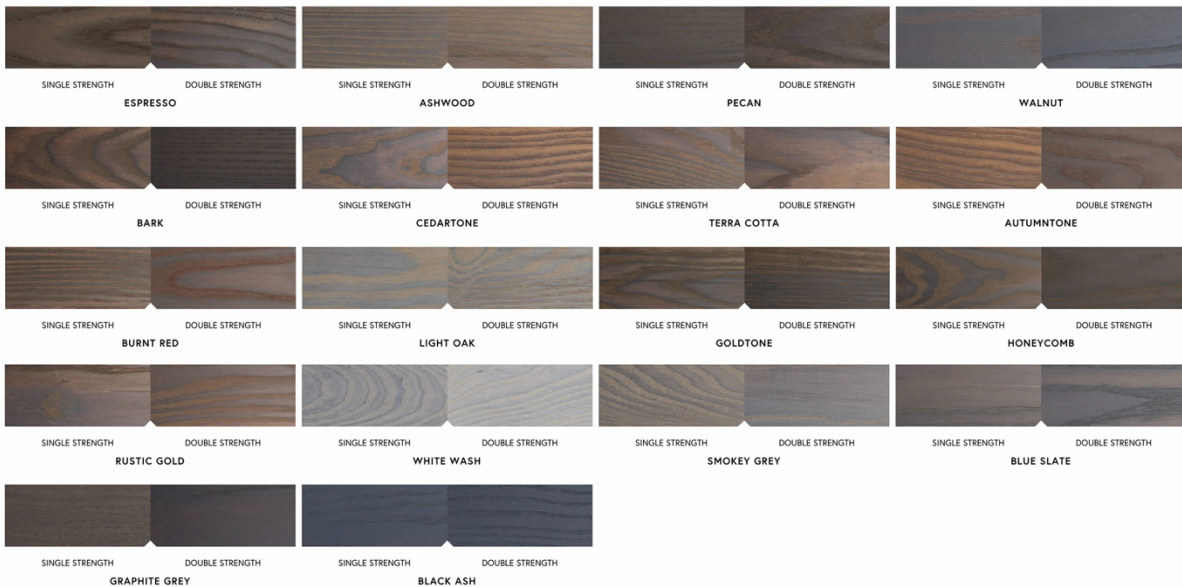


The European Line is available in several colour options when oiling pigments are applied to the compatible clear base coat. It also comes in a variety of sizes (as noted) which drive appealing layouts such as Checkerboard, Straight-Staggered or Herringbone patterns driven by the tile size of choice. The end result allows for the design and installation of a multitude of modern and contemporary colours and patterns.

THERMALLY MODIFIED ASH



SINGLE STRENGTH
CLEAR







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Tantomber Deck Boards (Surface Material)

Technical Information			
TEST	DESCRIPTION	STANDARDS	RESULTS
 DURABILITY	TESTING THE DURABILITY OF THERMALLY MODIFIED ASH AGAINST WOOD DESTROYING BASIDIOMYCETES (16 wk. EXPOSURE)	EN 15083-1 <u>EN 84</u>	DURABILITY CLASS 1
 THERMAL CONDUCTIVITY	THERMAL CONDUCTIVITY MEASURED USING LASERCOMP FOX-304 DEVICE ON SPECIMENS TO DETERMINE MEAN TEMPERATURE OF 10C AND MARKED AS A10	EVS-EN 12667	THERMAL CONDUCTIVITY HEAT TREATED ASH WOOD



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Specifications

Tile Dimensions

21" x 21" (Square Tile)

H: 1.625" x **W:** 21" x **L:** 21"

10" x 21" (Subway Tile)

H: 1.625" x **W:** 10.375" x **L:** 21"

10" x 48" (Plank Tile)

H: 1.625" x **W:** 10.625" x **L:** 48"

Tantimber (Hardwood) Surface Board Dimensions

(Square/Subway Tile)

H: 0.875" x **W:** 2.5" x **L:** 21"

Tile Weight (per sq.ft):

5.58 **lbs.** / 2.53 **kg.** (Square Tile)

2.79 **lbs.** / 1.27 **kg.** (Subway Tile)

5.74 **lbs.** / 2.60 **kg.** (Plank Tile)



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Sustainability & Environmental

The European Line is an excellent option for the environment and sustainability sourcing. Since Thermally Modified (North American Ash) wood is a more sustainable and ethically sourced option from well-managed forests, it helps to avoid the environmental concerns and regulatory hurdles associated with tropical hardwoods like Ipe, Acacia and Cumaru. In addition to meeting a Class 1 rating (which denotes the highest level of natural durability against biological degradation) the following serves as a breakdown of several key factors which substantiates using The European Line in outdoor building projects and why they're eco-friendly.

1. Dramatically Improved Dimensional Stability

- **Structural Integrity** → Thermally Modified wood shrinks, swells and warps far less with humidity changes .
- **Excellent for outdoor applications** → Deck tiles, decking, cladding used where humid climates are a contender.

2. Increased Decay & Rot Resistance

- **Heat treatment** – Reduce the sugars and nutrients in wood that fungi feed on.
- **Protection** – Thermally Modified wood becomes naturally more resistant to:
 - Rot
 - Mold
 - Insects

3. Reduced Moisture Absorption

- **Process** – Thermally Treated wood absorbs much less water.
- **Protection** – This helps prevent cupping, warping and other moisture-related issues.

4. Rich Attractive Color

- **Appearance** – Heat treatment darkens wood, giving it a richer, more exotic look – similar to tropical hardwoods, without negatively impacting the environment.
- **Consistency** – Colour goes all the way through the wood, unlike stains or coatings.

5. Environmentally Friendly

- **Chemical Free** – Only heat and steam are used in the process of treating the material.
- **Alternative** – An eco-friendly alternative to pressure treated lumber.



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6. Improved Biological Durability

- **More Resistant To:**
 - Termites
 - Borer insects
 - Microbial growth

7. Improved Weight

- **Heat treatment** – Reduces the wood's density slightly, making it easier to handle, cut and install.
- **Logistics** – Reduction in weight helps to reduce shipping and labour costs.