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

Opulent Collection / Wood Plastic Composite (WPC) Deck Tile [Product Data Sheet]

Updated: Feb 26/2026

A step up in durability and performance

WPC (Wood Plastic Composite) deck tiles are engineered to enhance outdoor environments with a refined, contemporary aesthetic and long-term performance. Designer Deck's *Opulent Collection* is manufactured using a proprietary blend of polymer resins and wood fillers, formulated to deliver superior structural integrity, weather resistance, and dimensional stability under varying environmental conditions. These composite deck tiles provide the natural appearance and texture of wood while offering enhanced durability and low maintenance requirements. The material composition is designed to resist moisture, UV exposure, heat, and general wear, making it suitable for a wide range of residential and light commercial applications. The product performs effectively across diverse surface types and is appropriate for installations in areas exposed to prolonged sunlight and elevated temperatures. Available in multiple pattern configurations, size formats, and finish options, the *Opulent Collection* supports versatile design integration to complement a broad range of architectural styles.

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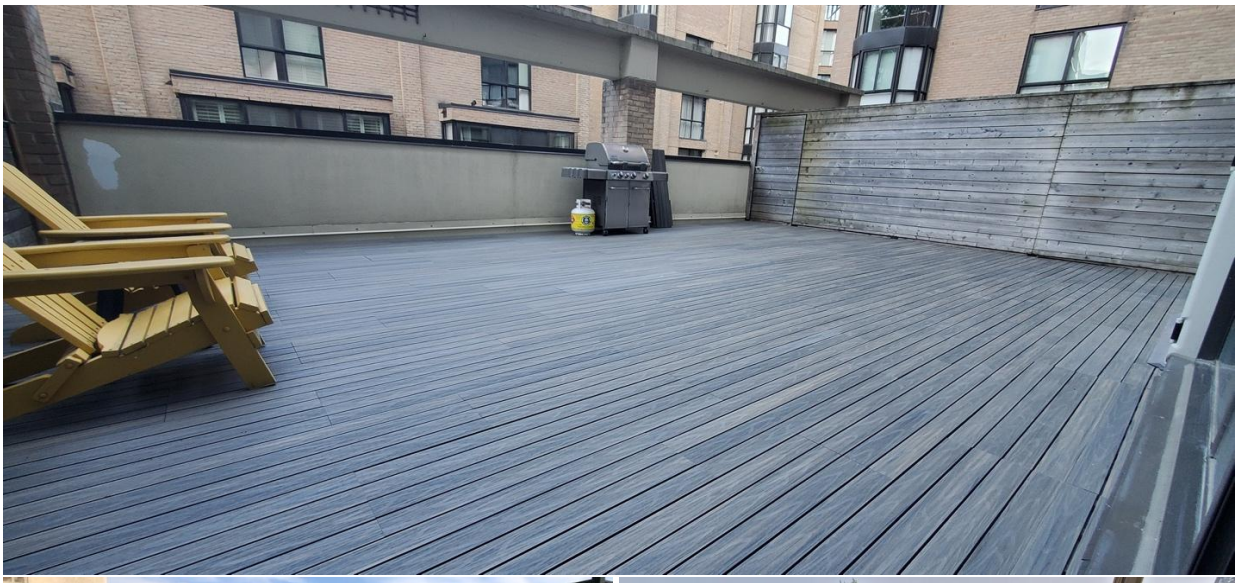

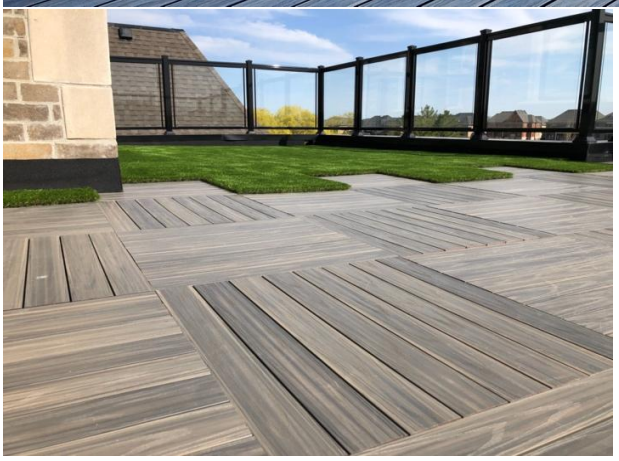

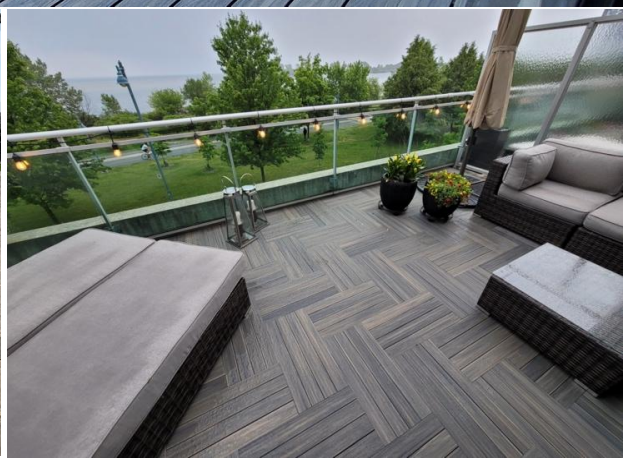

Applications

The Opulent Collection is ideally suited for a variety of applications and harsh environments. More specifically, they've been designed and tested to perform on concrete surfaces typically found on condominium balconies 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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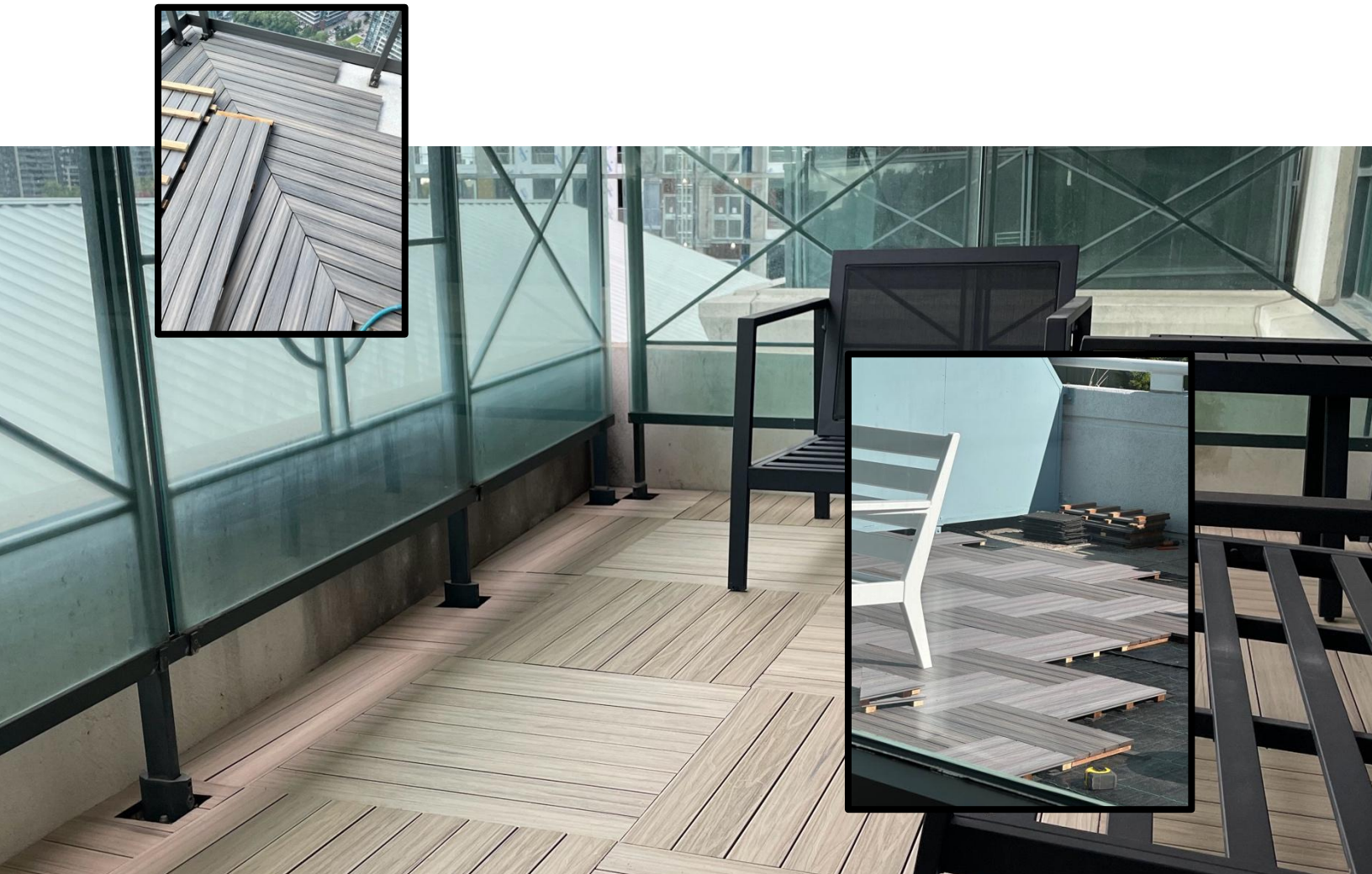
Installation System

The Opulent Collection has been engineered to sit directly on outdoor project foundations. As such, this line of deck tile intentionally follows the trajectory in a surface and is generally recommended for sloping of 2% of less. The pressure treated wood risers attached on the back of the tile, allow for maximum water and air flow thus mitigating moisture build-up or ponding if the foundation has been sloped correctly. Roofing shingles should be cut into 1.5-2" wide strips and used for flush leveling the product where raised edges occur due to foundation irregularities and/or to mitigate rocking.

All Designer Deck flooring systems and parts are non-structural assemblies and shall not be used to support or anchor railings, guardrails, handrails, fixed umbrellas, pergolas, privacy screens, or other permanent components; all associated loads must be independently transferred to a suitably engineered structural substrate. The installer/contractor is solely responsible for the design, installation, anchorage, structural adequacy, and code/by-law compliance of such components. Any third-party penetration, attachment, alteration, or modification of the flooring system voids the applicable Designer Deck product and workmanship warranty, and Designer Deck assumes no liability for resulting deficiencies, failures, damage, or claims, except where caused by Designer Deck's negligence.



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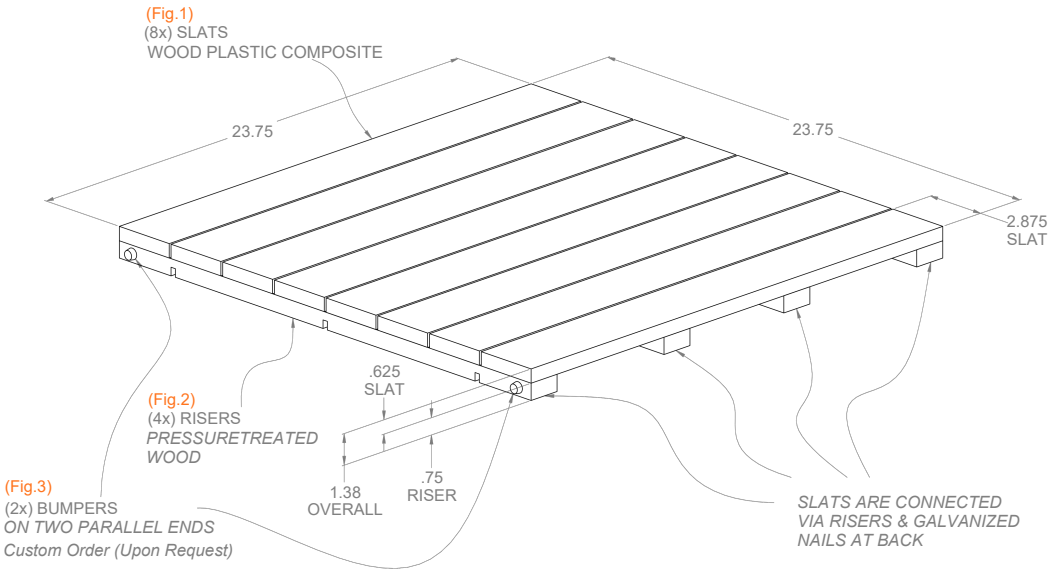
Product Features

WPC (Wood Plastic Composite) Tile 24" x 24"



Composite deck tiles provide excellent durability with regard to daily use. This stable surface material (Fig.1) is designed to withstand the harshest of conditions including exposure to direct sunlight, heat, snow and ice, while maintaining protection to delicate and finished surfaces. The Opulent Collection is equipped with ¾" pressure-treated wood risers (Fig. 2) are attached perpendicular to the back of the surface boards. Integrated grooves allow for maximum water drainage and airflow beneath the system, both laterally and horizontally, over a solid foundation and where conditions require this upgraded custom alteration. The risers can also be repositioned near cut lines and reattached with galvanized nails to help secure the product prior to cutting. Additional silicone bumpers (Fig. 3) may be installed on the riser's side or butt end pieces, dependent on tile size format. This may be included to achieve preferred spacing and to accommodate natural expansion/contraction in the product where conditions require this upgraded component. This deck tile is available upon order in sizes 4'x 1', 2' x 1' and 2' x 2'.

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Product Features

- True floating system – allows for ease of access underneath the elevated system for the ability to run small wiring (i.e. for system pot lighting), piping or irrigation lines etc. Adhesives or screws are not required to secure system to the receiving surface.
- Product equipped with ¾" pressure treated wood risers underneath, providing an ample void for maximum air/water flow
- Adhesives or screws are not required to secure the system to the receiving surface (foundation), unless otherwise specified and/or required for additional support.
- Low-profile design complies with building height restrictions and codes requirements.
- Durable materials with stable thermoplastic properties = very minimal expansion contraction.
- Ideally suited for exterior applications such as patios, balconies and roof terraces installations that required drainage.
- Custom manufactured in a variation of nominal tile sizes such as 12"x 24", 24"x 24", 48"x 12" (see "Specifications" section for actual dimensions)
- Durable non-slip surface available with an embossed realistic wood grain surface
- Product warranty ensures no defects in materials and workmanship and does cover damage resulting from misuse, or modification to the system post qualified installation.

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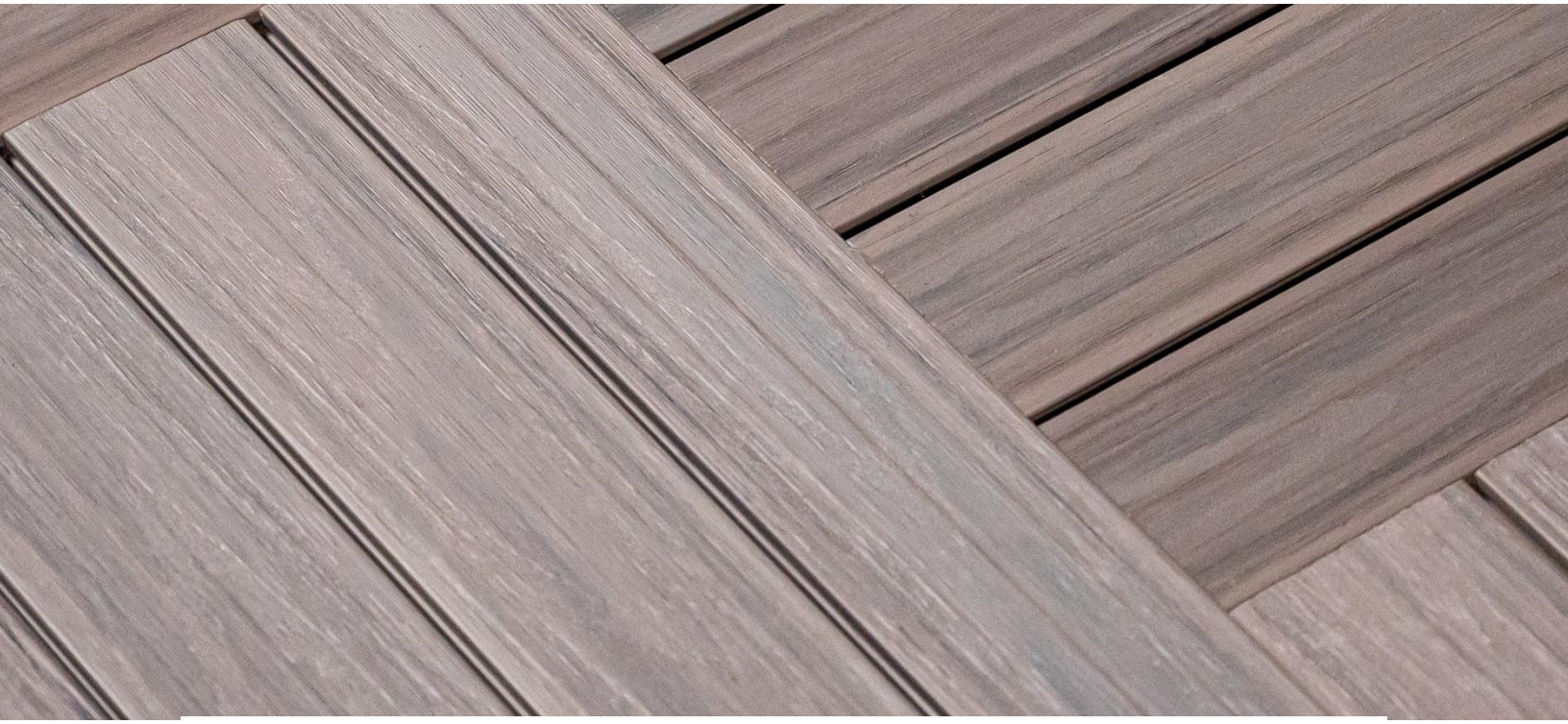
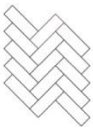


Variation



The Opulent Collection offers diversity in aesthetic vision, giving designers, architects and installers access to a variety of sizing formats in appealing layouts; this includes designs 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.

Beechwood

Rocky Shoreline

Rustic Cabin

Misty Wharf

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Composite Deck Boards (Surface Material)

Technical Information

WATER ABSORPTION (28 day immersion)	EN 15534-4 :2014 (SEC 4.5.5) EN 15534-1 :2014 (SEC 8.3.1)	MEANS SWELLING: THICKNESS: 0.26% WIDTH: 0.05% LENGTH :0.09% MAX SWELLING: THICKNESS: 0.39% WIDTH: 0.06% LENGTH :0.14% WATER ABSORPTION: MEAN: < 7% MAX: < 9%
LINEAR THERMAL EXPANSION (-20 C - 80 C)	EN 15534-4 :2014 (SEC 4.5.6) EN 15534-4 :2014 (SEC 9.2) ISO 11359-2 :1999	TEST REQUIREMENTS: <50.10-6 K1 MEAN: 40.1 .10-6 K-1
DEGREE OF CHALKING	EN 15534-4 :2014 (SEC 4.5.7) EN 15534-1 :2014 (SEC 10.1) ISO 4892-2 :2013 (CYCLE 1) ISO 4628-6 :2011	AFTER WEATHERING FOR 300HRS, THERE WAS NO VISUAL CHALKING ON THE SURFACE
RESISTANCE TO SALT	EN 15534-4 :2014 (SEC 4.5.7) EN 15534-1 :2014 (SEC 8.6) EN ISO 9227:2017	AFTER EXPOSURE FOR 300HRS, THERE WAS NO VISUAL DEGREDATION TO THE SURFACE
APPEARANCE	EN 15534-4 :2014 (SEC 4.3) EN 15534-4 :2014 (SEC 6.1) EN 13893 :2002	NO CRACKS, BLISTERING OR OTHER VISUAL DEFECTS

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SLIP RESISTANCE	EN 15534-4 :2014 (SEC 4.4) EN 15534-4 :2014 (SEC 6.4.4) EN 13893 :2002	TEST REQUIREMENTS: >0.43 LONGITUDE DIRECTION: MEAN: 0.43 MIN: 0.43 HORIZONTAL DIRECTION: MEAN: 0.51 MIN: 0.50
ANIMAL EXCRETA	IN HOUSE / MANUFACTURER	PASS

Specifications

Tile Dimensions

24″ x 24″ (Tile)
H: 1.25″ x **W:** 23.75″ x **L:** 23.75″

12″ x 24″ (Tile)
H: 1.25″ x **W:** 11.75″ x **L:** 23.75″

12″ x 48″ (Tile)
H: 1.25″ x **W:** 12.125″ x **L:** 48″

Note: Variance may occur in overall assembly of product, due to minor and uncontrollable width tolerance of surface boards.

(WPC) Composite Surface Board Dimensions

H: 0.5″ x **W:** 2.58″ x **L:** 23.75″

Tile Weight (per sq.ft):

4.2 **lbs.** / 1.91 **kg.** (24″ x 24″)
2.1 **lbs.** / 0.95 **kg.** (12″ x 24″)
4.1 **lbs.** / 1.86 **kg.** (12″ x 48″)

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Sustainability & Environmental

Composite is considered an excellent option for the environment and sustainability. Here's a breakdown of several key factors which substantiate the materials used in building projects and of why they're eco-friendly:

⚙️ 1. Durability = Less Waste

Exterior rated composite tiles are *extremely durable*–resistant to moisture, heat, frost, and heavy foot traffic. This means:

- Long lifespan ⟶ Fewer replacements over time.
- Less material waste ⟶ Reduced environmental impact from production, transport, and disposal.

🔁 2. Use of Recycled Materials

- Recycled Wood Fibers – Composite materials are composed of material mixtures containing fibers such as sawdust, wood chips or reclaimed lumber.
- Recycled Plastics – Composite materials are composed of material mixtures recycled plastics such as polyethylene from milk jugs or shopping bags.
- Diversion – Sourcing recycled material components helps in diverting waste from landfills and reduces the need to harvest new timber or product virgin plastic.

🌳 3. Reduced Demand for Virgin Lumber

- Deforestation – Since composites contain little or no new wood, they help reduce deforestation and minimize the environmental impact associated with logging and forest management.
- A Helping Hand – This supports conservation of ecosystems and biodiversity.

💧 4. Low Maintenance Requirements

- They don't need regular staining, sealing, or painting, which reduces the use of chemical finishes, solvents, and paints that can pollute soil and waterways.
- This also cuts down on energy and material consumption over time.

♻️ 5. Recyclability & End-of-Life Options

- Many material suppliers now design their composite boards to be recyclable at the end of their life, closing the materials loop and supporting a circular economy.

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🏡 6. Great for Green Building Projects

Composite deck tiles can contribute to LEED points (Leadership in Energy and Environmental Design) as well as other certifications programs that offer frameworks for assessing and improving building sustainability, specifically in categories such as:

- Sustainable materials
- Regional sourcing
- Energy efficiency
- Recyclability
- Innovation
- Materials and Resources