The Climate Resilience Design Kit.

Design principles
that **enhance durability and performance.**

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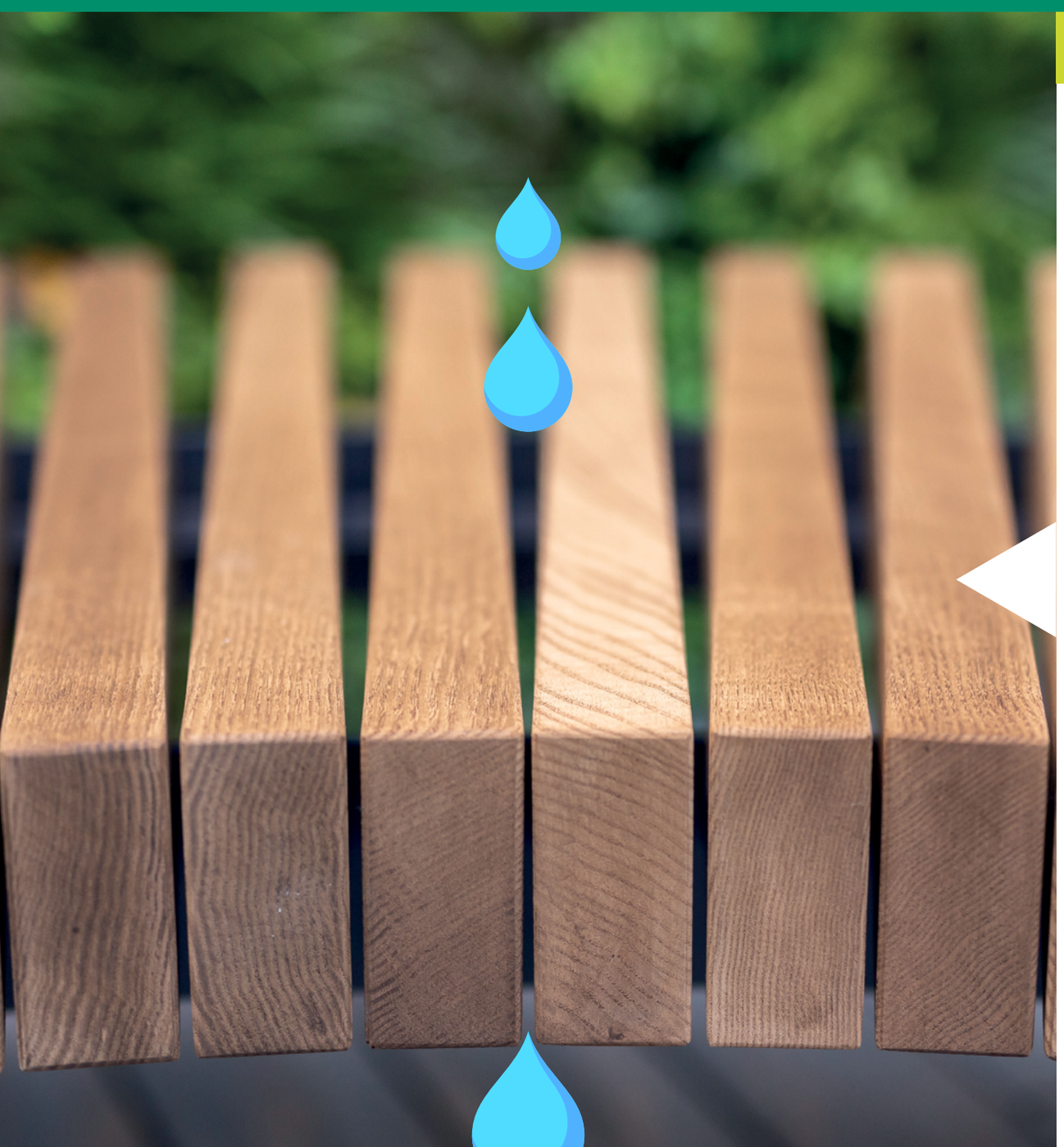
Intelligent Drainage Design

Breathable spacing for **faster recovery.**

Strategic gaps between timber slats or purposeful drainage slots in seating surfaces allow water to escape quickly after rainfall. This seemingly simple design choice prevents pooling, reduces drying time, and makes outdoor furniture usable within minutes rather than hours. In architecture, the same principle applies to decking, cladding, and outdoor flooring systems.



75%

Faster usability after rainfall compared to solid surfaces.

50%

Reduction in moisture absorption and significantly improved dimensional stability.

Thermal Modification Technology

Enhanced timber stability through **controlled heat treatment.**

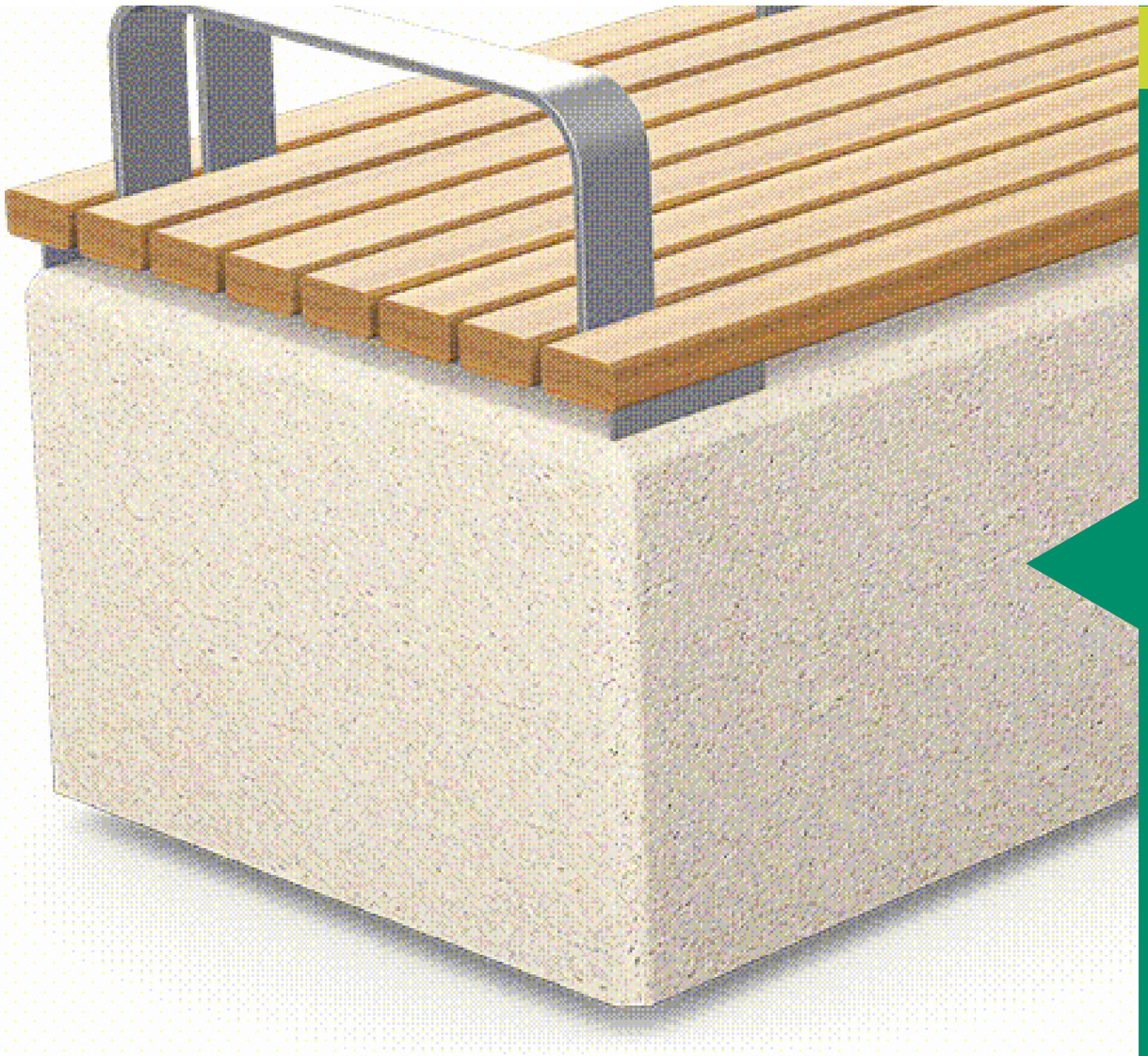
Thermal modification exposes timber to controlled high temperatures (160-230°C) in low-oxygen environments. This process reduces the wood's ability to absorb moisture, dramatically improving dimensional stability and resistance to decay.

Among other timber types like Iroko and reclaimed tropical hardwood, Furnitubes uses Endura Thermally Modified Ash uses quality ash grown in local woodlands. The ash is subjected to temperatures up to 214°C, improving the quality and essentially acts as an additional layer of protection to create a more durable and stable product.

Product Support Strategies

Protecting components through choosing **strategic supports.**

There are multiple support options available to prevent a product's direct contact with pooled water, soil moisture, and debris accumulation. Our supports are engineered with protective treatments designed for direct ground contact, ensuring longevity regardless of installation method. Thoughtfulness around product treatment and key support selection can mean a significant increase in longevity.



Extends component lifespan by 3-5 years in high-moisture environments.

Colour retention and
protection lasting 15-20 years
compared to 3-5 years for
standard coatings.

Advanced Protective Coatings

UV-stabilised powder coating for **long-term performance.**

Modern powder coating systems like those perfected by Custom Wytelyne, incorporate UV stabilisers and weathering agents that create a molecular barrier against solar radiation and environmental degradation. These advanced formulations maintain colour integrity and surface protection far longer than conventional paints, reducing maintenance cycles and preserving appearance over decades of exposure.

Intelligent Water Management

Controlled drainage for **optimal plant health.**

Sophisticated planter drainage systems balance water retention with excess removal. Integrated spouts and reservoir chambers prevent both waterlogging and drought stress by maintaining optimal soil moisture levels. This approach supports plant health while protecting the surrounding environment from water damage.

40mm

Maintains 40mm water reservoir for **drought protection** while preventing root rot from oversaturation.

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