

# CARBON BALANCE & SUSTAINABILITY STATEMENT

STATUS: ENVIRONMENTAL PRODUCT DECLARATION (EPD) & LIFE CYCLE ASSESSMENT (LCA)  
UNDER PROCESS

## 1. SEQUESTRATION: NATURE'S ORIGINAL TECHNOLOGY

Every cubic meter of Ligna timber begins its journey in FSC-certified forests. By sourcing 100% of our wood from responsibly managed environments, we ensure that biogenic carbon remains locked within the timber's cellular structure throughout its lifespan.

## 2. RADICAL DECARBONIZATION IN THE UAE

Ligna maintains its environmental integrity through localized engineering. By performing thermal modification, lamination, and finishing within our UAE facility, we significantly reduce the transportation-related carbon footprint for regional projects. Our chemical-free process eliminates carbon-intensive additives and resins.

**The Net-Negative Advantage:** By combining natural sequestration with localized, chemical-free manufacturing, Ligna provides a material that is net-negative. We are currently undergoing a formal **Life Cycle Assessment (LCA)** to quantify the exact carbon-negative impact per cubic meter.

## 3. CERTIFICATION PROGRESS

To provide full transparency for Tier 1 projects, Ligna is currently in the process of finalizing a third-party **Environmental Product Declaration (EPD)**. This certification will be published in accordance with ISO 14025 and EN 15804 standards, providing architects with verified data for LEED and Estidama submittals.

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