

# Cross Laminated Timber (CLT) Developments

Advantages of Installing Access Flooring



## Introduction

**Cross-laminated timber (CLT):** CLT is a large-scale, prefabricated, solid engineered wood panel. It's lightweight, yet very strong, with superior acoustic, fire, seismic and thermal performance. Being made from wood, a renewable resource, it significantly reduces the carbon footprint associated with more common construction materials. Originally developed in Europe in the 1990s, Cross-laminated timber (CLT) is a wood product made up of several layers of structural grade timber that are arranged crosswise and glued together.

This new development is being adopted globally as a viable alternative to more traditional building practices. Being at a reduced cost, easier to assemble and sustainably beneficial, CLT towers are the modern construction choice, pathing new architectural design and interest in the industry.

**Access Flooring:** A raised access floor refers to an elevated structural floor above a solid substrate with a hidden access area between the two. This access area allows the passage of a variety of services, including cabling for data and telecommunications, electrical power, water supply and drainage, HVAC (heating, ventilation and air-conditioning) systems, and cabling for environmental controls, fire detection and security. ASP Access Floors International are committed to reducing their environmental impact, manufacturing sustainable access flooring and investing in credentialing in EPD's, LEED, WELL, Climate Active & Carbon Neutral Abilities.



# ASP Access Flooring in CLT Towers

## THE BENEFITS

The installation of ASP Access Flooring products within CLT Towers provide a list of benefits. **These include the following:**

- The importance of an access floor in CLT towers is paramount and unlike that of other building constructions due to their exposed ceilings and services. Access floors provide the ability to house the bulk of services in the floor void, allowing a more aesthetically pleasing result in CLT design.
- A modular, adaptable environment to amplify the net lettable area.
- Easily adaptable tenancy spaces, allowing the developer an increased rental yield.
- Acoustic Benefits within the commercial environment demonstrated with Acoustic Testing in 'real-time' CLT Building Structure by Octave Acoustics.
- Base Build Icon & Urban Access Flooring allows for direct application of aesthetic finishes in Timber & Porcelains.
- ASP panel can be prefinished to allow unhindered accessibility and ease of maintenance to the under-floor services.
- Access flooring allows the option to incorporate underfloor air conditioning for an environmentally friendly work environment with increased occupant comfort and productivity.
- The benefits of utilisation of a non-combustible access flooring system with the Icon Series.

## ASP ACOUSTIC TESTING WITH A CLT BUILDING – ACCOMPLISHED IN 'REAL-TIME'

- Acoustic Testing for the Icon Series Access Floor System
- Acoustic Testing for the Magnes Magnetic Timber finish
- Acoustic Testing for the Eclipse Porcelain Finish
- Acoustic Testing for the Urban Interlock System



# ASP Access Floor's Sustainability Commitment

## SUSTAINABILITY AT ASP ACCESS FLOORS

As a member of the Green Building Council of Australia (GBCA) and the US Green Building Council (USGBC), ASP Access Floors' Environmental Policy outlines how ASP endeavours to use recycled materials, reduce its Carbon Footprint and optimise its supply chain.

The implementation of the policy will ensure ASP:

- Considers sustainability in all relevant decision making
- Reduces their greenhouse gas emissions
- Produces less waste and increase recycling

The aim of this policy is to incorporate ecologically sustainable development principles in every facet of design, manufacturing and installation with the introduction of the following six key objectives:



Indoor Environmental  
Quantity



Waste  
Management



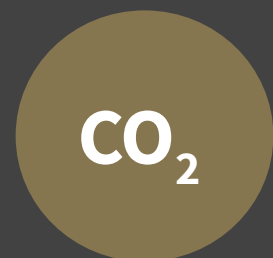
Recycled  
Content



Life Cycle  
Analysis



Environmental  
Product Declaration



Carbon  
Neutral



**ASP Access Floor's**  
**offer Innovative Access**  
**Flooring, Sustainable**  
**Solutions.**



# ASP Access Floor's Applications

## ACCESS FLOORING FOR ALL ENVIRONMENTS

ASP Access Floors have developed Access Flooring Solutions for all applications. Their extensive range of Access Flooring allows an option for all areas within CLT developments. You'll find access flooring utilised within the following spaces of CLT buildings:



Workstation Areas



Breakout Spaces



Compactus Areas



Communication Rooms



Lift Lobbies



High Load Areas



Amenities



Kitchens



# ASP Access Floors (CLT) Projects

## OUR EXPERIENCE

ASP Access Floors International have installed accessing flooring within various CLT towers. ASP Access Floors systems are sustainable products, supporting the builds below sustainability goals. Some of these CLT towers have achieved award winning sustainability benchmarks through Greenstar, LEED and WELL.

Throughout these CLT projects, ASP have utilised many of their patented product ranges such as Icon, Urban Interlock, Magnes, Eclipse and Concept +.

## PROJECTS

- T3 36 Wellington Street St, Collingwood Melbourne, Australia
- 25 King St, Brisbane, Australia
- International House Barangaroo, Sydney, Australia
- Barker Collage Hornsby, Australia
- Surry Hills Village
- 80 Lomandra Drive Brisbane Airport, Australia
- Daramu House Barangaroo, Australia
- The Dish – 400 George St, Sydney, Australia
- Monash University, Melbourne, Australia
- University of Tasmania, Australia
- GovHub Bendigo, Australia





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