WE WILL BE 70% URBAN BY 2050

7,000,000,000

1.6% AIRLINES

3% SHIPPING

7-10% CONCRETE
WOOD is replenishable

WOOD is replenishable
Introducing Massive Timber

WOOD is replenishable

Cross Laminated Timber

3D ADVANTAGES
Horizontal panel - 5 ply

CREEP
Shortening due to compression
MOISTURE
Maximum moisture at construction 14-16%
Minimum moisture in use 8-10%

STABILITY

Cross Laminated Timber

Murray Grove

DENSITY 2,400 kg/m³
WEIGHT 1,200 tons
PROGRAMME 72 weeks

DENSITY 480 kg/m³
WEIGHT 300 tons
PROGRAMME 49 weeks

Honeycomb CLT Structure
Rotated Plans
Load-bearing walls, floors, cores
Before

After
QuickTime™ and a Microsoft Video 1 decompressor are needed to see this picture.
WOOD STORES CO2

1m³ TIMBER = 1 TON CO2

THE CARBON STORY

Moved In
MAKING A 9 STOREY CONCRETE BUILDING EMITS 500 T OF CO$_2$.  

MAKING A 9 STOREY TIMBER BUILDING SEQUESTERS 760 T OF CO$_2$.

A NET DIFFERENCE OF 1,260 T CO$_2$ = +/- 250 CARS.