



MONASH UNIVERSITY RESEARCH CONFIRMS UP TO 40% CARBON EMISSION SAVINGS

in Australasian building projects with innovative DonoBeam design.

As a leader for smart, innovative, and more sustainable buildings, Coresteel Buildings are dedicated to creating efficiencies that drive a reduction in greenhouse gas emissions.

For independent verification, our parent company Donovan Group engaged Monash University to validate the reduced environmental impact of our DonoBeam structural system. **Others may claim carbon savings, we undergo the scrutiny of independent experts to prove it.**



When DonoBeam is utilised in the New Zealand market, the Monash University research team found:



ARB SHOWROOM

25.4%*

LESS RAW MATERIAL EMISSIONS

25.6%*

LESS TRANSPORTATION EMISSIONS



BROTHER WAREHOUSE

28.8%*

LESS RAW MATERIAL EMISSIONS

28.9%*

LESS TRANSPORTATION EMISSIONS

*Higher reductions of up to 40% were achieved utilising 450 Grade steel

Research Overview

The study analysed the comparative life cycle assessment of a steel structure, considering the environmental impacts of:

- Raw material transport and processing
- Steel structure fabrication
- Transport of structure to site
- Construction of the steel structure on-site.

This life cycle assessment of DonoBeam Tapered Box Beam design was compared with traditional Universal Beam/Welded Beam (UB/WB) systems. Two existing DonoBeam buildings, the ARB Seven Hills and the Brother Warehouse, were used as case studies to inform this comparative assessment.

Ready to start your next project?
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