



# EXPAND THE POSSIBILITIES OF YOUR BUILDING WITH DONOBEAM

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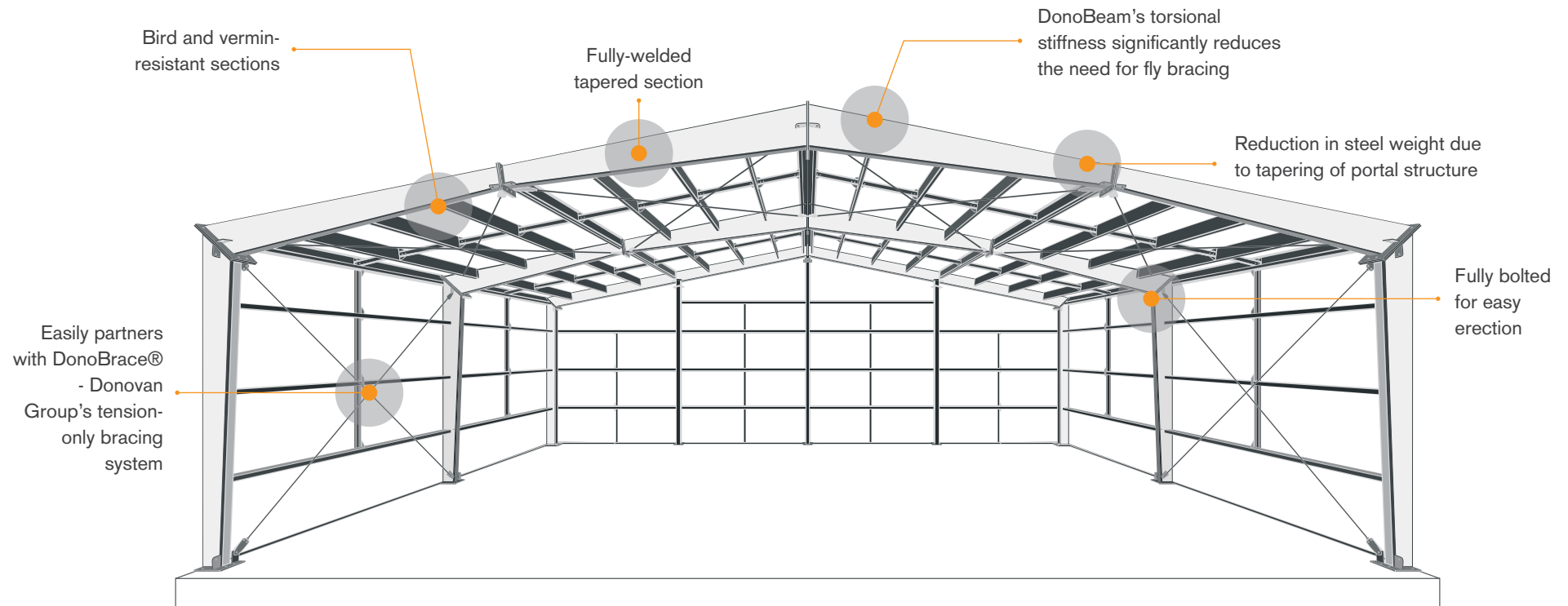
# DonoBeam Points of Difference

- Cost-effective system without compromising structural integrity
- Buildings not confined to set sizing - fully bespoke
- No obtrusive knee or apex braces
- Fully-bolted primary and secondary sections i.e. not TEK screwed
- Bird-resistant purlins and vermin-resistant girts
- Independent research by Monash University confirms DonoBeam delivers up to 40% less carbon emissions when compared to traditional steel construction methods.
- Coresteel is your designer, engineer, manufacturer and builder all in one, which considerably reduces time and costs
- 50-year design life
- Coresteel is 100% New Zealand owned and operated

# What is DonoBeam?

The DonoBeam structural system is tapered through its length, utilising only the amount of steel required for any given design, yet without affecting structural integrity.

This design offers several exciting features, including bird and vermin-resistant properties, a reduced overall surface area (resulting in less steel and paint being required), plus a simple, quick construction process which reduces labour costs.



# Innovative design which requires less steel

The steel-saving DonoBeam design offers a more robust design solution (compared to cold-formed sections) for medium to large spanning buildings, and a solution that is lighter than hot-rolled sections.

While others may claim carbon savings, we underwent the scrutiny of independent experts to prove it. A 2021 Building 4.0 CRC study undertaken at Monash University in Melbourne evaluated the potential environmental benefits of the DonoBeam structures compared to traditional systems, using internationally recognised ISO 14040 and ISO 14044 standards for environmental life cycle assessment. The research confirms up to 40% carbon emission savings when compared to traditional steel construction methods, including savings of up to 25% in steel emissions and up to 26% in transport emissions.





# Quick to Construct



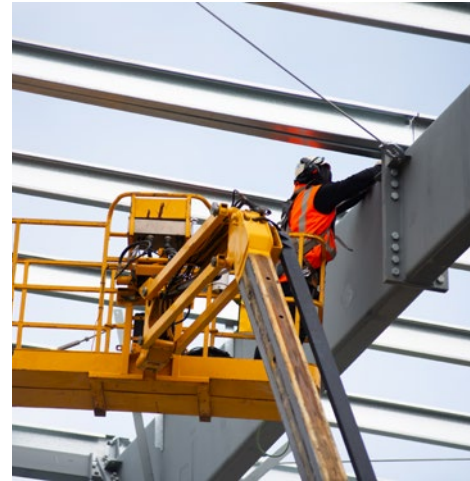
All of Coresteel Buildings' projects are manufactured in New Zealand by Donovan Group NZ Ltd (Coresteel Buildings' parent company).

When the steel frame is complete it is packaged up together with all fastenings and sent to the building site as a complete structural kitset.



Because each building is prefabricated, it is quick and simple to construct on site.

Within a few days the entire frame can be erected, without the need for onsite welding.



Due to the speed in which the building can be erected, significant labour cost-savings can be made. Ultimately, less staff are needed for a shorter amount of time.



Once the portal frame is complete, cladding and joinery is installed. Following this, the internal fit out begins.

# Wider spans than ever before

DonoBeam delivers high spans and greater design flexibility.

We understand the value in unobstructed internal space, and DonoBeam structural steel beams can deliver this economically, with impressive clear spans to suit your business needs. This versatile system can also incorporate a range of architectural or practical elements that your business needs – all with a unique and distinct architectural aesthetic to make your project stand out from the competition.





# Sleek, stylish and versatile

The innovative design of DonoBeam allows Coresteel's inhouse design team to incorporate virtually any architectural or practical element into the design of your building.

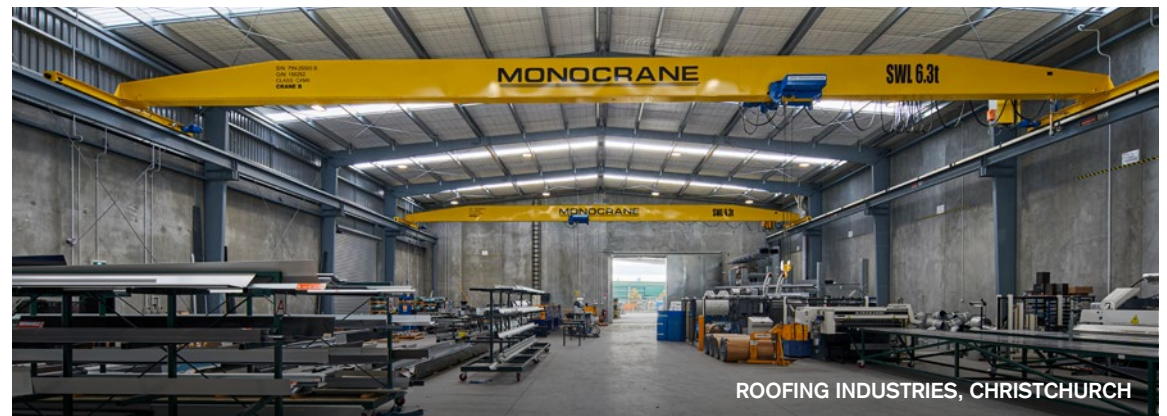
Architectural features such as branded store fronts, attractive showrooms and modern reception areas are easily paired with practical aspects like racking, gantry cranes, mezzanine floors and cantilevered canopies.



KENNEALLY TIMBER, CHRISTCHURCH



ST. JOHN'S GYMNASIUM, HAMILTON



ROOFING INDUSTRIES, CHRISTCHURCH



# Bird & Vermin Protection



Both systems are bird and vermin resistant, with several features which ensure this:

- A** All purlins are simply supported and have cover plates to eliminate roosting and nesting
- B** Internal flanges mean no roosting
- C** 50mm clear span building, affixed to 8m high cantilevered panels e.g. simply supported.





The DonoBeam design has been independently checked and verified by the Heavy Engineering Research Association (HERA). HERA is recognised in both New Zealand and overseas as a leading authority in the design of steel structures.

**HERA**





## Hermpac Limited, Northland

LENGTH	130m
WIDTH	70m
KNEE HEIGHT	8m
FLOOR AREA	9420m <sup>2</sup>





## Ha Crescent, Auckland

LENGTH	187m
WIDTH	59.4m
KNEE HEIGHT	13m
FLOOR AREA	10850m <sup>2</sup>





## Brother International, Tauranga

LENGTH	92.3m
WIDTH	65m
KNEE HEIGHT	10m
FLOOR AREA	6625m <sup>2</sup>





# Marua Road, Auckland

LENGTH	70.5m
WIDTH	58m
KNEE HEIGHT	9m
FLOOR AREA	4100m <sup>2</sup>



# PlaceMakers, Whangarei

LENGTH	73m
WIDTH	29m
KNEE HEIGHT	7.6m
FLOOR AREA	2455m <sup>2</sup>





# Roofing Industries, Christchurch

LENGTH	43.2m
WIDTH	26.9m
KNEE HEIGHT	8.6m
FLOOR AREA	1162m <sup>2</sup>







## Prebble Seeds, Christchurch

LENGTH	66m
WIDTH	36m
KNEE HEIGHT	6m
FLOOR AREA	2376m <sup>2</sup>



# St. John's Gymnasium, Hamilton

LENGTH	43.2m
WIDTH	26.9m
KNEE HEIGHT	11.8m
FLOOR AREA	1162m <sup>2</sup>







# NZ Trucks, Hamilton

LENGTH	52m
WIDTH	29m
KNEE HEIGHT	6.5m
FLOOR AREA	1508m <sup>2</sup>



# Kenneally Timber, Christchurch

LENGTH	40.4m
WIDTH	24.75m
KNEE HEIGHT	6m
FLOOR AREA	1200m <sup>2</sup>





Learn more about our systems

**CORESTEEL.CO.NZ | 0800 CORESTEEL**



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