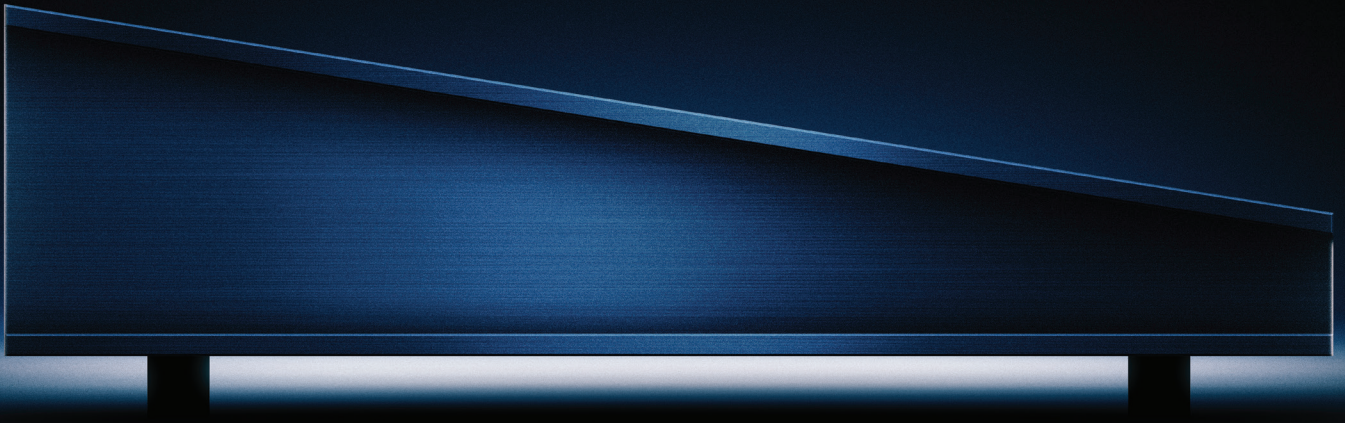




SMARTER BEAMS.



SMALLER FOOTPRINT.

 **STELTECH**[®] STANDARD

2.06 GWP PLATE

 **STELTECH DCRB**[®]

0.641 GWP PLATE



LOWERING EMISSIONS IN CONSTRUCTION.

Reducing embodied carbon is now a critical part of how buildings are designed and delivered in New Zealand. Engineers, architects, and developers are under increasing pressure to meet sustainability targets, support Green Star and Homestar ratings, and respond to client and regulatory expectations.

But reducing emissions can't come at the cost of structural performance, reliability, or delivery certainty.

The challenge is clear: How do we lower embodied carbon without compromising strength, efficiency, or buildability?

THE SOLUTION.

Lower emissions are now built into every STELTECH® beam.

Manufactured locally from lower-emissions New Zealand Steel plate and combined with Steltech's proven optimised beam design, STELTECH® offers a new generation of structural steel beams that significantly reduce embodied carbon.



Our new standard beam

STELTECH® Standard Beams are manufactured using a new lower-emissions steel plate blend from New Zealand Steel. Paired with Steltech's optimised welded beam designs, they deliver a substantial reduction in embodied carbon compared to traditional structural steel solutions.

Global Warming Potential [GWP]:

2.06
GWP PLATE

Up to **46% reduction** in embodied carbon versus conservative NZGBC baseline.

56%* SCRAP STEEL BLEND



Our lowest emissions beam.

STELTECH® DCRB® represents the next step in low-emissions structural steel. Manufactured from high scrap-content steel plate, it delivers the lowest GWP available across the Steltech beam range, while maintaining the same structural performance, design flexibility, and reliability Steltech is known for.

Global Warming Potential [GWP]:

0.641
GWP PLATE

Up to **83% reduction** in embodied carbon versus conservative NZGBC baseline.

100%* SCRAP STEEL BLEND

STRONGER PROJECTS. LOWER CARBON.

Choosing STELTECH® Standard or STELTECH® DCRB® helps projects:



Significantly reduce embodied carbon at the structural level



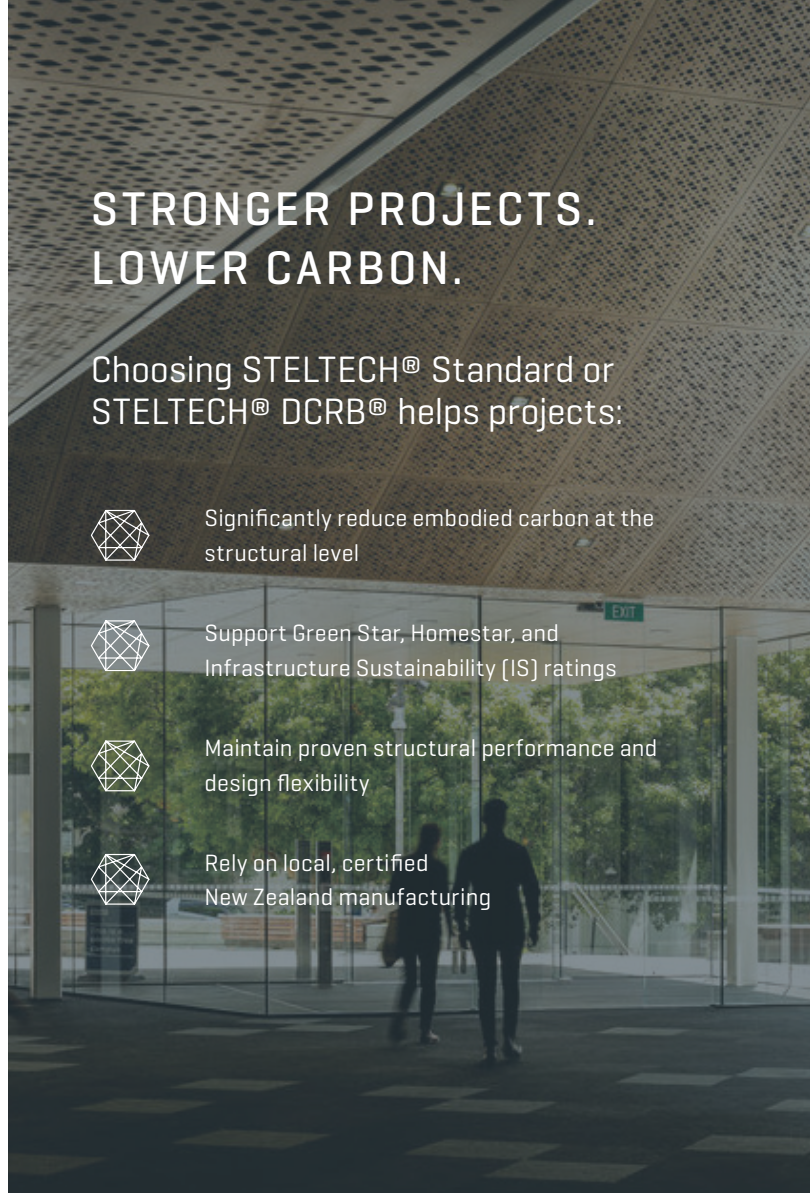
Support Green Star, Homestar, and Infrastructure Sustainability [IS] ratings



Maintain proven structural performance and design flexibility



Rely on local, certified New Zealand manufacturing



COMPLETE ENVIRONMENTAL PRODUCT DECLARATIONS (EPDS) ARE AVAILABLE AT [NZSTEEL.CO.NZ](https://nzsteel.co.nz)

*This includes a mixture of internal scrap and post consumer/industrial scrap. Coming to market in 2026.

THE ELECTRIC ARC FURNACE: STEEL, REIMAGINED.

All STELTECH® beams are manufactured from plate supplied by New Zealand Steel. From 2026, that plate will be produced using New Zealand Steel's new Electric Arc Furnace (EAF) - the largest industrial decarbonisation initiative in New Zealand's history.

By combining recycled scrap steel, local resource efficiency, and New Zealand's largely renewable electricity grid, the EAF fundamentally changes the carbon profile of New Zealand-made steel. Every STELTECH® beam carries that advantage.

↓
- 1%

NZ's Total Emissions

↓
- 800K

CO2 emissions per annum

↓
- 400K

Tonnes of coal used

**REUSE.
REMANUFACTURE.
REDUCE.**

Steel is infinitely recyclable. The EAF ensures scrap steel can stay in New Zealand, to be remelted and remanufactured into new reinforcing products again and again.



1. Hot Metal Mix

Cutting coal in half

By shifting to the Electric Arc Furnace process, NZ Steel halves the use of coal and the need for traditional kilns, reducing energy demand and emissions.

2. Recycled Scrap Steel

Steel stays in the local loop

Local scrap steel, once exported offshore can now be collected, sorted and returned into the loop to be remelted at Glenbrook.



3. Electric Arc Furnace (EAF)

Low emissions steel, powered by renewables

Using New Zealand's largely renewable grid, the EAF melts scrap and hot metal into prime steel, slashing emissions and energy use.



4. Slab & Billet Casting

Strong foundations for the future

Molten steel is cast into slabs and billets, the essential building blocks for creating new steel products.



5. Optimised beam manufacturing

From steel to strength

Slabs are rolled into high-quality plate. Steltech transforms this lower-emissions plate into custom welded beams, designed to reduce steel weight while maintaining performance.





STELTECH®
STRUCTURAL LTD

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FABRICATION FACILITY

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