

Steely Support for
Your Biggest
Visions



New

SMARTRUSS

SMARTRUSS®

Fast, Efficient, Well-engineered Steel Truss Solution.

New SMARTRUSS® is a roof truss system that offers durability, affordability, strength, stability and compatibility with traditional building methods.



Advantages of New SMARTRUSS®

Strong

- Made using TRUECORE™ G550 steel which is 30% stronger than mild steel
- Strength to weight ratio superior to all other common building materials
- New shape more efficient allowing lighter gauge to be used

High buildability Score

- Pre-fabricated roof trusses
- Reduced site labour
- Increased quality control

Lightweight

- Easily handled
- Low carnage costs
- Lower foundation costs

Durable

- Resistant to, and limits the spread of fire
- Termite, moisture and fungus resistant
- Electrically safe when properly earthed

Design flexibility

- High strength to weight ratio
- Provide larger spans and required fewer supports
- Design tools facilitate structural design



More Advantages from New SMARTRUSS®

Warranty

BlueScope Lysaght® provide Anti-Rust and Structural Warranty

Site Supervision

We will supervise all installation work based on shop drawing and standard installation

Installation Training

Installation training for licensed fabricator is given periodically



SUPRACADD®

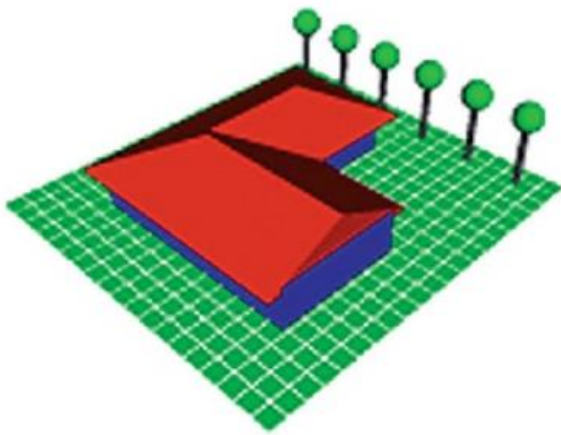
SUPRACADD® has been certified as a software which comply with technical provision for limit state cold-formed steel structure design.

Computer Designed

LYSAGHT SMARTRUSS® truss designs are supported by SUPRACADD® detailing software which models the geometry, designs the roof trusses and facilitates structural computations by licensed fabricators. This high-quality, industry leading software enables precise, customised truss designs with all the necessary details for accurate construction. Critically approved by industry professionals, it comes with a full set of cutting edge features, and forms the essential foundation for any successful, world-class building project.



Step 1 - Input Building Layout



Step 2 - Trusses are designed



Step 3 - Engineering Calculation performed



Precision Manufacturing



Truss components are manufactured



Bundled together and marketed



Can be fabricated off-site and delivered pre-assembled



Assembled on-site

Accredited by the
National Association of Testing Authorities (NATA)
LYSAGHT® Technology operates a NATA-registered structural testing laboratory together with a complete research and development facility.

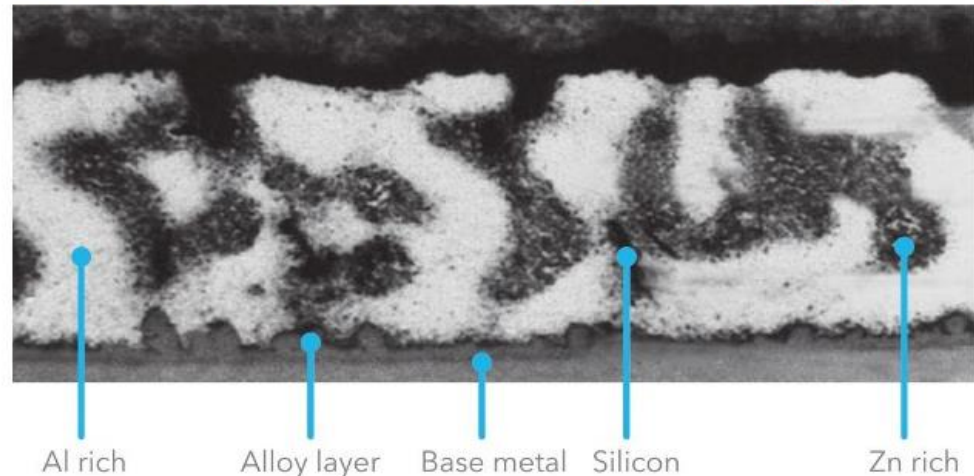
TRUECORE™ G550 steel is a hot-dipped aluminium zinc-coated structural steel with a guaranteed minimum yield strength of 550 Mpa, manufactured using a blue tinted resin. It is specifically designed for the residential house framing market

Why TRUECORE™ Steel?

Advantages

- High tensile strength:
550 MPa yield strength
- Structural load optimisation
 - Requires less building material
 - Reduces overall structural and lifting costs
- Corrosion-resistant coating technology
- Conforms to AS/NZS 1365: 1996 1
(Tolerances for flat-rolled steel products)
- Conforms to AS 1397: 2001
(Steel sheet and strip - Hot dipped Zinc-coated or Aluminium/Zinc-coated)
- Certified with SNI 4096: 2007
(BJ LAS G550 AS150)

Corrosion-resistant coating technology



- Coatings are applied to steel to prevent rust
- **TRUECORE™** steel coated with a 55% aluminium, 43.5% zinc, 1.5% silicon alloy coating
- Outperforms normal zinc galvanised steel by up to 4 times
- AZ150 coating class ("approximately" 50 µm coating thickness)
Total both sides according to AS 1397

Advantages of **TRUECORE™** steel vs. **Timber Trusses**

- Material consistency
- Fire resistant
- Unaffected by termites
- Longevity
- Less installation errors
- Unaffected by warping

Advantages of **TRUECORE™** steel vs. **Mild Steel Trusses**

- Light and easy handling
- Welding not required and screw fastened
- Speed of construction
- Does not require painting
- Corrosion resistant
- No material wastage

Advantages of **TRUECORE™** steel vs. **Galvanised Iron**

- 4X stronger protection against corrosion
- Superior cut edge protection
- Better tight bend performance



Warranty* of 15 Years

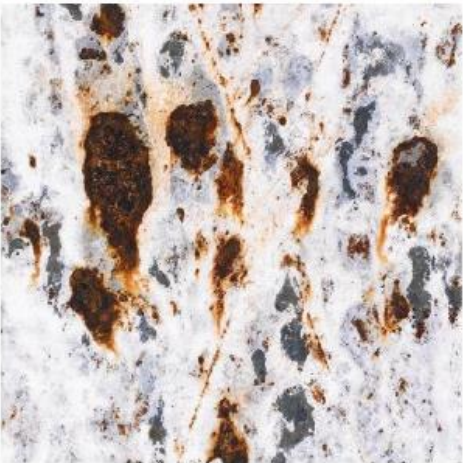
Against Perforation
by Corrosion

TRUECORE™ Steel Corrosion Performance

	Galvanised Steel 300g/m2	TRUECORE™ Steel 150g/m2
Cleveland Condensing Humidity Test	4032 hours to red rust	14000 hours to rust free
Salt Spray Chamber	295hours to 5% red rust	2260 hours to 5% red rust

* Warranty terms and conditions apply.

After 500 hours (Salt Spray Test)



Galvanised Steel Z180



TRUECORE™ Steel

How to Identify Genuine *New* SMARTRUSS® TRUECORE™ Steel

Pay attention to the TrueCore® steel branding text on every coil, which is your assurance of BlueScope Steel's commitment to quality.

Branding text:

TRUECORE (TM)	AZ150	steel made by BlueScope Steel	mm:hh	dd:mm:yy	08 SNI 4096207 LSPR-004-IDN
Brand Name	Coating Mass		Time of Production	Date of Production	Manufacturing Site Code

Learn More About New **SMARTRUSS®**

For more information, price quotes or personalised consultations, please call the branch nearest to you. Our people will be ready to respond to your needs immediately.

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TrueCore™

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