

LYSAGHT® SMARTRUSS®

Steely Support For Your
Biggest Visions



LYSAGHT® SMARTRUSS® System conforms to JKR Specifications &
CIBD IBS Requirement

LYSAGHT

SMARTRUSS

SMARTRUSS®

FAST, EFFICIENT, WELL-ENGINEERED STEEL TRUSS SOLUTION

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

ADVANTAGES OF 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

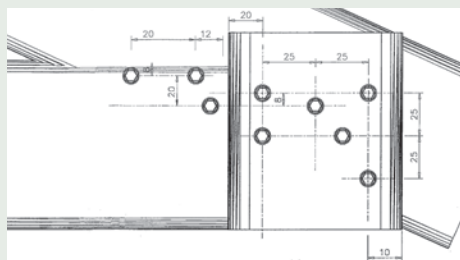
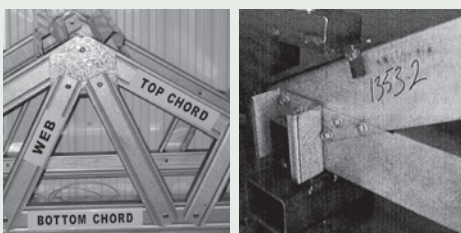
- Easily handled
- Low crange costs
- Lower foundation costs

Durable

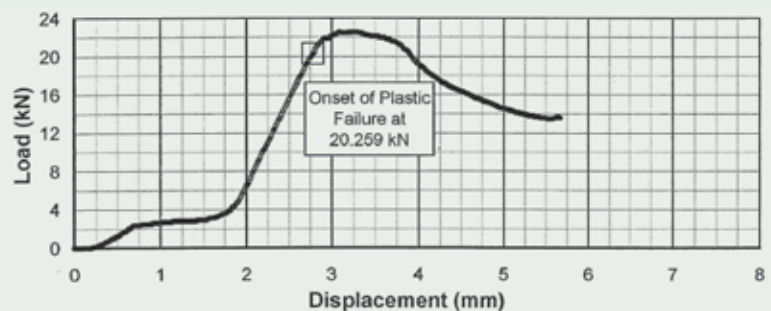
- Resistant to, and limits the spread of, fire
- Termite, moisture and fungus resistant
- Electrically safe when properly earthed

Design Flexibility

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



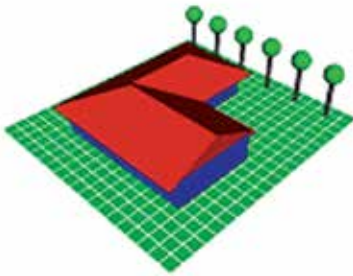
Heel Bearing Test of C75 1.0mm BMT Section with Short Stiffener and 9 off #12-14x20 Tek



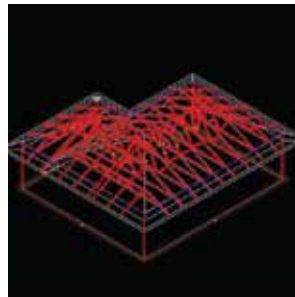
Load – Displacement of C75 1.0mm BMT 25 Degree Heel with Short Stiffener and 9 off #12-14x20 Tek Compression Test 1

COMPUTER DESIGNED

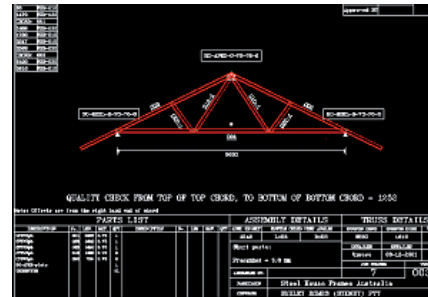
LYSAGHT® SMARTRUSS® truss designs are supported by **LYSAGHT® SUPRACADD®** detailing software which models the geometry, designs the roof trusses and facilitates manufacture by licensed manufacturers. This high-quality, industry leading software enables precise, customised truss designs with all the 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.

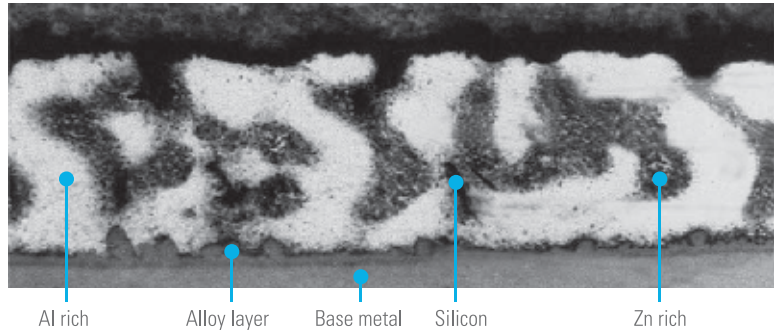


WHY TRUECORE® STEEL?

Key notes:

- High tensile strength minimum 550 MPa yield strength
- Structural load optimisation
 - Requires less building material
 - Reduces overall structural and lifting costs
- Corrosion-resistant coating technology
 - Highly resistant to corrosion and deformation
 - Unique in Malaysia
- Minimum service life of 50 years
- Certified to AS 1397 and MS 1196 by Sirim
- Conforms to JKR specifications - BMT≤1.2mm (G550; AZ150)
- Certified to SIRIM ECO-LABEL - Eco Friendly Coated Steel

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
- AZ150 coating class (50µm coating thickness both surface)
- Outperforms normal zinc galvanised steel by up to 4 times
- 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

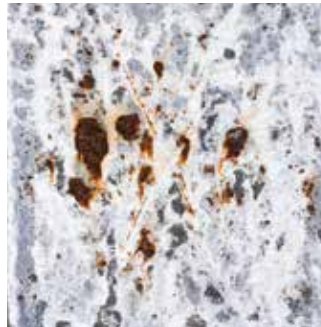


WARRANTY* OF 50 YEARS AGAINST PERFORATION BY CORROSION

TRUECORE® STEEL CORROSION PERFORMANCE

	Galvanised steel 300g/m ²	TRUECORE® steel 150g/m ²
Cleveland Condensing Humidity Test	4032 hours to red rust	14000 hours to rust free
Salt Spray Chamber	295 hours to 5% red rust	2260 hours to 5% red rust

After 500 hours (Salt Spray Test)



Galvanised steel Z180

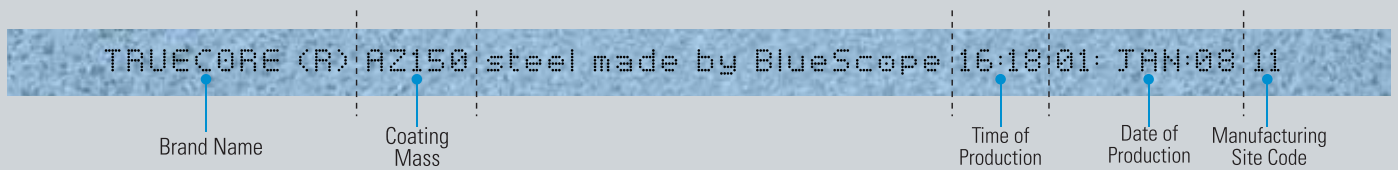
TRUECORE® steel

* Warranty terms and conditions apply.

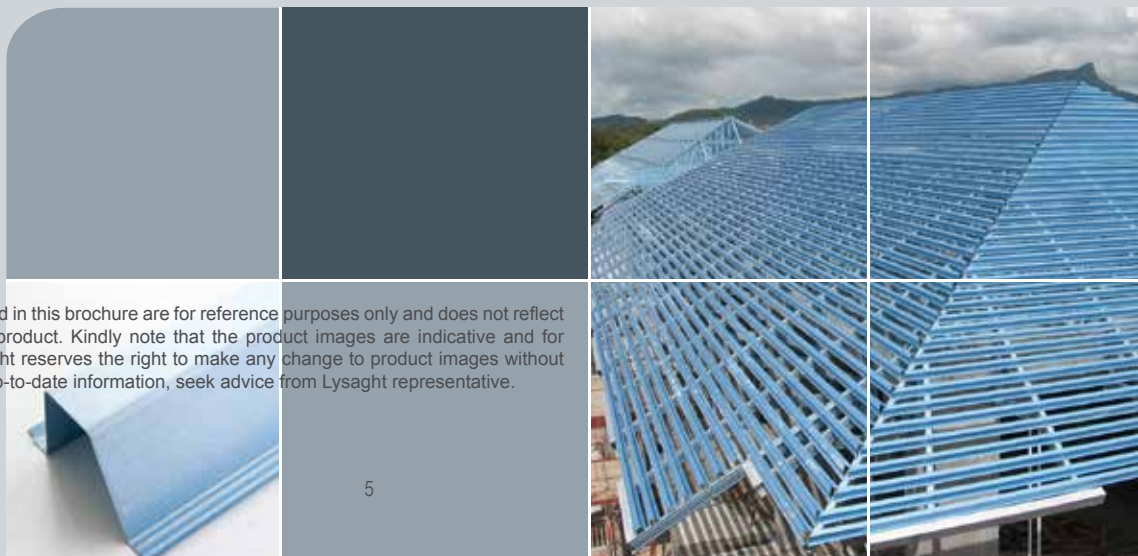
HOW TO IDENTIFY GENUINE TRUECORE® STEEL

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

Branding text:



Note: All the product images used in this brochure are for reference purposes only and does not reflect the actual configuration of the product. Kindly note that the product images are indicative and for illustration purposes only. Lysaght reserves the right to make any change to product images without prior notice. For accurate and up-to-date information, seek advice from Lysaght representative.





Trusted Partner for Building Systems

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