



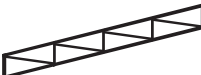



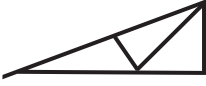





STEEL ROOF TRUSS

Frequently Asked Questions

1 What is a roof truss?

A truss is a structure forming by components to provide support to a roof and distributes the weight of the roof to supports, such as columns or load bearing wall, depends on the structure design.

2 Common types of roof trusses

| | | | | |
|-----------------------------------|--|---|--|---|
| <p>Roof Trusses</p> |  <p>Regular Truss</p> |  <p>Mono Pitch Truss</p>  <p>Sloping Flat Truss</p> |  <p>Regular Truss</p>  <p>Truncated Standard Truss</p>  <p>Hip Truss</p>  <p>Creeper Truss</p> |  <p>Bowstring Truss</p> |
| <p>Suitable Roof Types</p> | <p>Gable Roof Gable Roof is a pitched roof with two sloping surfaces with the end (or both ends) terminated with a gable.</p>  | <p>Single Pitch Roof A single pitched roof without a traditional ridge or peak. It is also called single slope or mono slope roof.</p>  | <p>Hipped Roof Hip Roof is a pitched roof with four sloping surfaces pyramidal in shape.</p>  | <p>Curved Roof Curved Roof is curved in shape or in arc shape without a traditional ridge or peak.</p>  |

3 Why use steel in roof truss construction?

Smart Construction

- Steel truss is more lightweight than timber and easy handling during transportation and installation.
- Steel truss can be fabricated and assembled at the factory location or at site. All truss members are marked and pre-punched for fast and accurate assembly and easier site installation, at the same time reduces the massive earthworks and heavy foundation.
- Modular and prefabricated system will provide better finishing in a shorter time frame and reduction of labour content.

Termite and Fire Resistant

- A common problem with timber materials is the infestation of pests, especially termites. Termites and other wood-boring pests are highly destructive and can affect the integrity of the structure. While you can always treat your wood with pest-resistant products, this would mean higher costs of maintenance. Steel roof trusses aren't susceptible to such problems.
- Steel has a higher fire resistance capacity than timber.
- LYSAGHT® SMARTRUSS® roof truss system made from TRUECORE® steel are 100% termite and fire-resistant, straight and true, lightweight yet strong. It is also non-combustible, which significantly reduces the amount of flammable material at property.

Lower Lifetime Cost

- LYSAGHT® SMARTRUSS® system is manufactured from high tensile strength, long life TRUECORE® steel that is backed by a material warranty of up to 50 years*. It provides a lightweight alternative to timber roof framing and is competitively priced as the system's structural integrity leads to lower lifetime costs. For more information on the 50-year warranty, see [BlueScope's TRUECORE® brochure](#)

* Terms & conditions apply.

Environment Friendly

- New metal roofing typically contains recycled content and is 100% recyclable.


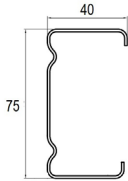
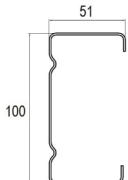

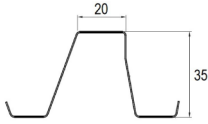
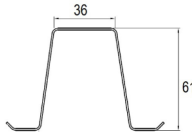
4 What are the roof types that LYSAGHT® SMARTRUSS® system can be fabricated?

Gable roof, single pitch roof & hipped roof

5 Which software do you use to design LYSAGHT® SMARTRUSS® roof truss system?

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.

6 What are the truss components available at Lysaght Malaysia for different roof design?

| Type of Components | Product | Height (mm) | Thickness (mm) | Material Strength | Illustrations |
|---|---------|-------------|----------------|-------------------|---|
| C-Channel  | C7575 | 75 | 0.75 | G550 |  C7575 & C7510 |
| | C7510 | 75 | 1.0 | G550 | |
| | C10010 | 100 | 1.0 | G550 |  C10010 |
| Batten  | TS3548 | 35 | 0.48 | G550 |  TS3548 & TS3550 |
| | TS3550 | 35 | 0.50 | G550 | |
| | TS6175 | 61 | 0.75 | G550 |  TS6175 |

7 What is the LYSAGHT® SMARTRUSS® performance capacity?

| | |
|---------------------------------|---|
| Span | Generally, with no intermediate support it can go up to 13m subject to the geometry and roof shape such as the roof pitch and height of the truss. Averagely, it is used for clear span of 6 to 9m. |
| Distance Between Trusses | Up to 2.4m (with LYSAGHT® TOPSPAN batten) |
| Slope | Any slope (but most economically up to 35°) |
| Roof Cover Material | Any |
| Material Input | C-Channel, batten, bracing, connectors and fasteners. |

8 Does LYSAGHT® SMARTRUSS® requires welding?

Welding is not allowed as materials used for cold-formed are very thin. Methods of connection components such as fastening and bolting are suggested.

After reading this FAQs, if you still find yourself needing further explanation, or you would like to schedule a meeting, contact us today.



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The FAQs are some commonly asked questions. The information and images provided are intended for general knowledge and/or recommended use of our products. It serves as a basic guide only and the information contained thereto may be subject to changes, revisions or amendments as may be necessary. We encourage you to consult with a Lysaght Representative regarding your individual requirements, areas of interest or for any clarification required.

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