

SUPERDAYA: THE LIGHT GAUGE STEEL TRUSS SYSTEM

INTRODUCTION

Housing construction has undergone many variations over the years, evolving to meet economic, environmental and social considerations at different times. Plans and styles are developed to meet latest trends and fashions, while the choice of construction materials may be guided by reasons ranging from cost, availability of technology, consumer acceptance to conservation considerations. One such development that has significantly improved and upgraded the roof trusses industry is the development of the Light Gauge Steel Trusses (LGST).

In line with this development, Superspan Sdn Bhd pioneered its usage in Malaysia since late ninety. Today, Superspan's brand of "SuperDaya LGST" has been installed in a variety of projects ranging from high rise commercial buildings to residential structures. The company is a specialist in designing, manufacturing and installing LGST roof trusses adheres and is committed to the highest quality levels to ensure that the best products and services are generated constantly.

PROVEN BUSINESSES

An acronym name of Superspan and Dayatera Brands are well known in the building industry for its quality products for Light Gauge Steel and Timber Trusses and Wall Framing Products. We have shape many countries roof lines over few thousand homes and buildings all over Malaysia and South East Asia region. Since 1997, SuperDaya has grown steadily and successful deliver to projects in Malaysia, Indonesia, Timor Leste, India, South Pacific Islands and South America.

SuperDaya Group of companies has operation offices and manufacturing facilities in Selangor, Negeri Sembilan, Sabah and Jakarta. Our business encompass on five market segments, that is, Prefab Timber Roof Truss System, Light Gauze Steel Roof Truss System, Pre-engineered Building for Light Industrial Building, Modular Houses and Mounting Structure for Solar Photovoltaic. We believe in providing innovative solution to all our customers with affordable and quality products by adopting a practical approach in design engineering, research and development and focus on roofs that require specialist skill and expertise.

SuperDaya Group of companies' products comes with certification and accreditation from SIRIM QAS Quality Assurance System Certification, ISO 2008:9001 and JKR approved vendor for Roof Truss System. We are also registered with CIDB as Grade G7 contractor.

CRISIS vs. OPPORTUNITY

Over years of LGST application into Construction Industry, intense competition has driven many opponents to the ground or using substitutes with inferior materials which resulted in many collapses and suspension of vendors by Malaysia Public Work Department (Jabatan Kerja Raya).

RELIABLE AND DURABLE STRUCTURAL DESIGN

As for Superspan's brand of "SuperDaya LGST", we believe that all roof trusses must be SAFELY designed and accurately analysed every members and joints, using latest Advance State-Of-Art Software which are compliant to design codes and guidelines in order to ensure consistency and reliability.

"SuperDaya LGST" has been designed and detailed by team of experienced designers and qualified engineers for any discrepancy in design may result in high wastage and even endangerment to life. Thus, at Superspan, we believe well trained design team capable of ensuring all minute details are thoroughly calculated and taken into account when designing roof trusses so that quality and consistency are achieved.

DIFFERENTIATION

Superspan's brand of "SuperDaya LGST" is a leading brand in Malaysia and Indonesia is consistently growing and gaining market share to advance its position and reputation. It is the commitment of the company to employ the latest technology, operating methods and controls, to uphold the quality of "SuperDaya LGST". Adaptation towards changes in market developments and continual improvement in both technical and management fields in order to be more effective and efficient in its operations, thus providing the best products and services to its customers.

MANUFACTURING STANDARD

Quality Steel coils of Truecore and Zinalume with grade G550 specification supplied by BlueScope Steel, are fed into the roll-former machine to form "SuperDaya LGST" trusses component of different profiles. The entire process is guided by Computer Aided Manufacturing (CAM) in order to ensure that the end product is consistent with the design.

An advantage in which "SuperDaya LGST" trusses have over their timber counterpart is that it does not need to be air-seasoned or chemically treated, thus saving time in the manufacturing process. It is also highly flexible as it can be cut to any length and size, thus making any roof shape possible. The greater flexibility however does not mean a compromise in quality. The trusses are rolled and cut under the strictest of quality control using CAD/CAM systems, thus ensuring the trusses are as per the design and that there are no variations in profile.

The flexibility of “SuperDaya LGST” is evident not only in the design but also in manufacturing. The “SuperDaya LGST” trusses can be prefabricated at our factory and later delivery to the site in order to save installation time. A jig can be set up easily on-site and the trusses prefabricated using self-taping screw.

ACCURATE DELIVERY AND INSTALLATION ON-SITE

In the situation whereby prefabrication is needed to be carried out in the factory, the trusses are then delivered to the site after final inspection and stacked orderly as complete units. Well coordinated logistics guarantee prompt delivery of the trusses to the site so that erections can be carried out on schedule.

The organised nature in which the trusses are stacked up minimises wastage and loss as the neat placement in the site leads to better organisation of work flow and physical movements.

The systematic approach saves time and cost for the developer and this, as we all know, translates to higher productivity through a speedier completion of the project.

As mentioned in its name “Light Gauge Steel Truss” is easily installed due to its lighter weight. It can be effortlessly lifted by 2 people and yet its weight is no deterrent to its strength. Unlike timber, whose characteristics are not consistent with each batch, steel trusses are a highly consistent product with consistent material strength.

Furthermore, any alteration in design can be carried out quickly and easily in the installation process as LGST can be unscrewed and reassembled accordingly as required.

Superspan’s brand of “SuperDaya LGST” employs well trained installers and experienced supervisors to ensure that the roof trusses are installed properly and with no compromise in quality so as to guarantee consistent alignment of the trusses on the roof.

LGST have a lifetime performance, they do not warp nor rot.

THE TESTIMONY OF COMPLETED PROJECTS

Throughout the entire project, Superspan offers full technical support. Clients can be call for the professional assistance and expertise of our staff at any stage of the process from design to installation, and we will gladly assist for the end result of a superior roof truss that is second to none.

Superspan has designed, manufactured and installed many trusses for various projects. Some of these include commercial buildings, houses, schools, hospitals, apartments etc.

Superspan’s brand of “SuperDaya LGST”, are fully approved and endorsed by architects, consultants and local authorities and we adhere to the highest level of quality and values.

SUPERIOR BRAND & FULLY CODES COMPLIANCE

Superspan's brand of "SuperDaya LGST" offers many advantages such as:-

Termite proof, Fire resistance, does not warp, does not decay, Durable material, highly flexible in design, Light weight and strong, Speed of Construction, Consistent characteristics and dimensional stable, Flexible alteration, Cost Competitive, Seismic Tolerant, Warranty and Quality Products.

The "SuperDaya LGST" product is engineered and supplied by Superspan Sdn Bhd is fully endorsed and comes with Product Certification by SIRIM (Standard and Research Institute of Malaysia).

DESIGN SPECIFICATIONS & PERFORMANCE CHECKS

Designs of trusses are check by advance computer software for:-

1. Axial Force – both tension and compression
2. Shear and Bending Moment
3. Combination of bending and axial force
4. Serviceability or deflection limits
5. Joint connection of members
6. Endorsement by Professional Engineer

Trusses are designed using the following code of practices as below:-

1. ANZ4600: 1996 (Australian / New Zealand) Limit State Design
2. BS5950 Part V-98 (British Limit State Design for Cold Form Steel)

Trusses are checked on structural and service ability analysis using the code, beside this, professional engineers shall endorse on the final drawings to ensure the designs are in order. We provide professional engineering to consultants to meet client requirement.

CONTACTS

"SuperDaya LGST" brand is dedicated to deliver reliable, safe, durable and quality Trusses and Framing products on technically challenging projects. This is where our local knowledge and global experience adds value to our industry in our very own MALAYSIA, and in all our endeavours. We can be contacted at +603-33445748, fax +603-33430724, and email: info@dayatera.com and web: www.superdaya.com.my.