



Steel structure design & Fabrication

About Us

Horizon Integrated Solutions is one of the best specialized Engineering firm providing a wide range of project management specially for industries. Our business integrates engineering, construction management, and field implementation experience.

We offer our clients a variety of professional services adapting to their needs and budgets and deliver superior quality services while creating genuine partnerships.

Our services provide Project Management and Structural Engineering (Designing and Fabricating) for new and renovated structures.

Capabilities

HIS team

- We are a partner who knows how to support, select and supply tailor-made materials or equipment which can be under our target scope with all the necessary services.
- We have always aspired to excellence through quality, innovation and service.
- Today, we are able to work together with our customers to obtain the best service results in terms of quality, efficiency and flexibility.



Purpose, Mission and Vision

Purpose

To create and apply a high productive organizations by the most reliable and professional supportive technical team.

Mission

Combine technical requirement with work standard, services, quality and safety goals with competitive prices to provide the best result

Vision

Playing as one agile family team to get the highest productivity with a very safe environment



Scope of work

Scope of work

1- Steel structure design

- All buildings included in this proposal are designed in accordance with the following codes:
- **Load applied and Tolerances for fabrication are in accordance with:**
 - Canadian code for loads (CSA)
 - Or American code for loads (AWS)
- **Hot-rolled sections and built-up sections are designed in accordance with:**
 - Canadian design code for steel structure (CSA)
 - Or American code for steel structure (AWS). American Institute of Steel Construction, Inc. (AISC) 1 East Wacker Drive, Suite 3100, Chicago, Illinois 60601-2001, USA.
- **Cold-formed members are designed in accordance with:**
 - The 2001 Edition 2001 of Cold Formed Steel Design Manual, Addendum. By American Iron and Steel Institute (AISI) 1000 16th Street, NW, Washington, DC 20036, USA.
- **Welding is applied in accordance with:**
 - The 20th Edition (2006) of Structural Welding Code - Steel (AWS D1.1M: 2006) By American Welding Society (AWS) 550 NW Lejeune Road, Miami, FL 33126, USA.

Scope of work

1- Steel structure design

- Design concept is vary based on customer requirements with Hot-Rolled or Built-up
- Carrying out structural analysis under all applicable design loads including gravity, wind and seismic forces.
- Submitting all design package for approval process

2- Material supply

3- Steel structure fabrication

4- Material, welding in process and general tests

For Material: -

- Tensile test
- Mechanical Test
- Chemical Test

For Welding: -

- Ultrasonic test
- Dye penetrate test
- Magnetic particle test For Coating
- Dry film thickness test
- Adhesion test





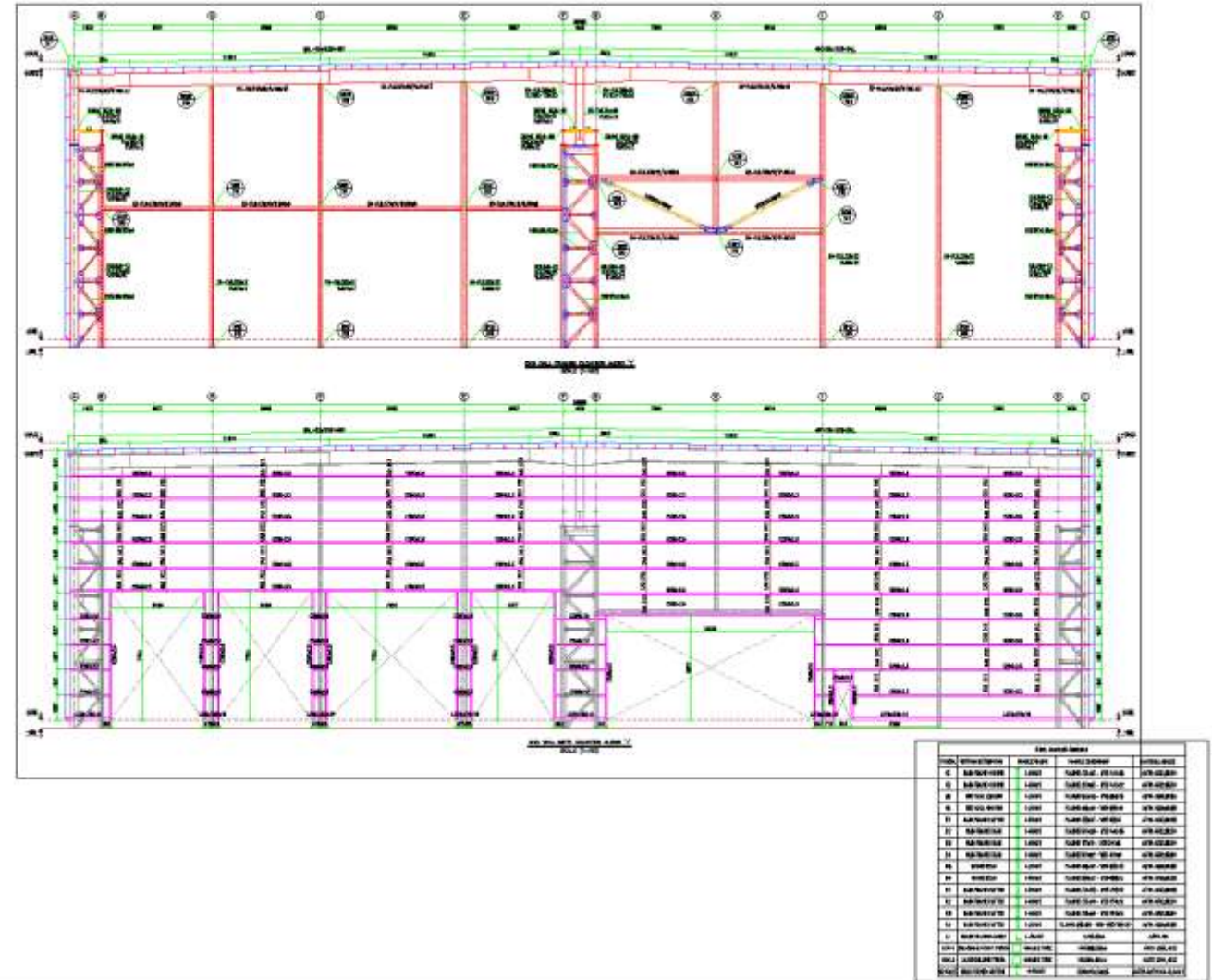
Success stories

Success stories

Steel structure design

- Design steel structure in Canada based on CSA.
- Design was includes all package:
 - Analysis model
 - Full GA & connections drawing
 - Loads analysis.
 - Calculations

Note: many buildings was designed in Canada based on CSA. Full design package was submitted for city approval

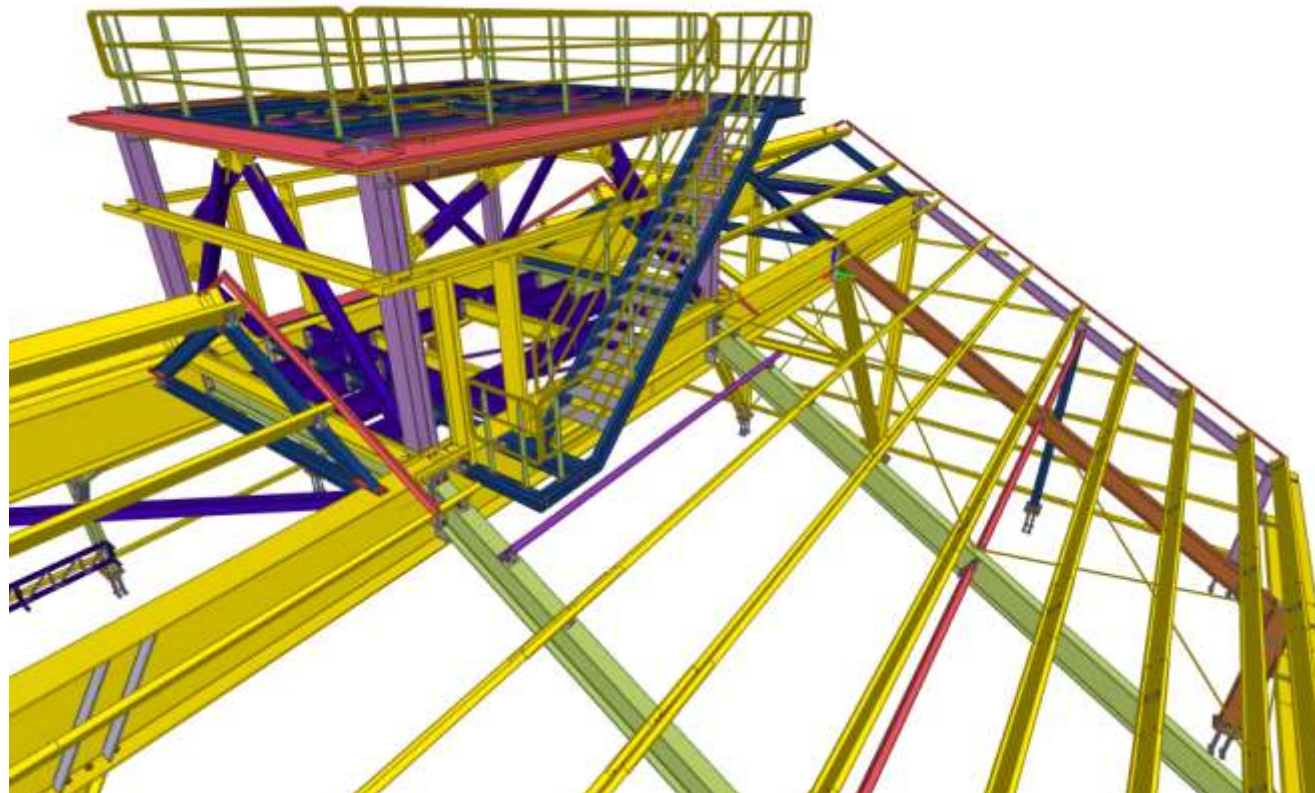


Success stories

Steel structure design

- Design steel structure based on AWS (American code standard).
- Design was includes all package:
 - Analysis model
 - Full GA & connections drawing
 - Loads analysis.
 - Calculations

Note: many buildings was designed based on AWS. Full design package was submitted for city approval



Success stories

Steel structure Fabrication

- Some buildings was fabricated and supplied to Canada **with a very competitive price.**



Success stories

Steel structure Fabrication



Success stories

Steel structure – Shipping process to client location (DAP or CFR)

- Materials packaging to be ready for shipping.
- Packaging is handling based on material safety and avoid ant issue with material painting (Epoxy painting).



Success stories

Steel structure – Installations

Some supplied building was installed in Canada





Thank You.



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