

SMART PRODUCT
BUILD THE PASSION

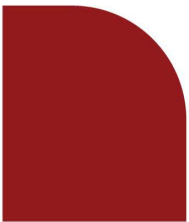
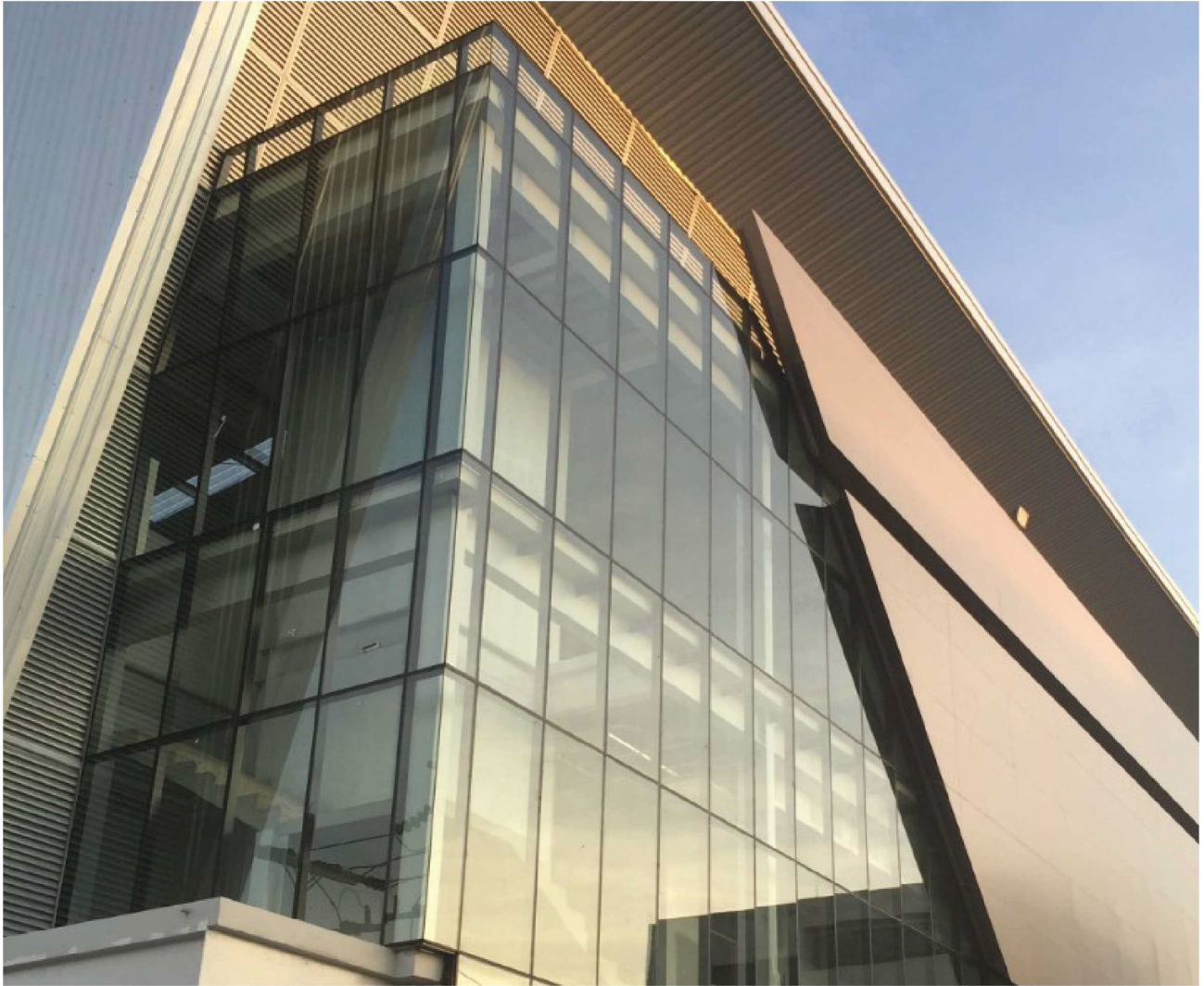


SMART BUILT

**TURNKEY DESIGN & BUILD
PRE-ENGINEERING BUILDING**

TF CO., LTD.
THE I.D. 8 CO., LTD.



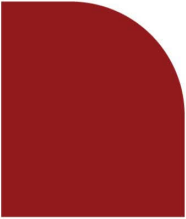


We aim to be a leader in design and construction using the
Pre-Engineering Building system.

--An Integrated Solution Provider

TF Co., Ltd. is a specialist engineering company in design and construction using prefabricated steel structures (Pre-Engineering Building). The company has expert engineers with over 25 years of experience in constructing buildings using this system, with over 100 completed projects, including large warehouses, manufacturing plants, high-rise buildings, and more. The company offers comprehensive services, including site surveys, feasibility studies, and complete design and construction services from start to finish (Turnkey system).

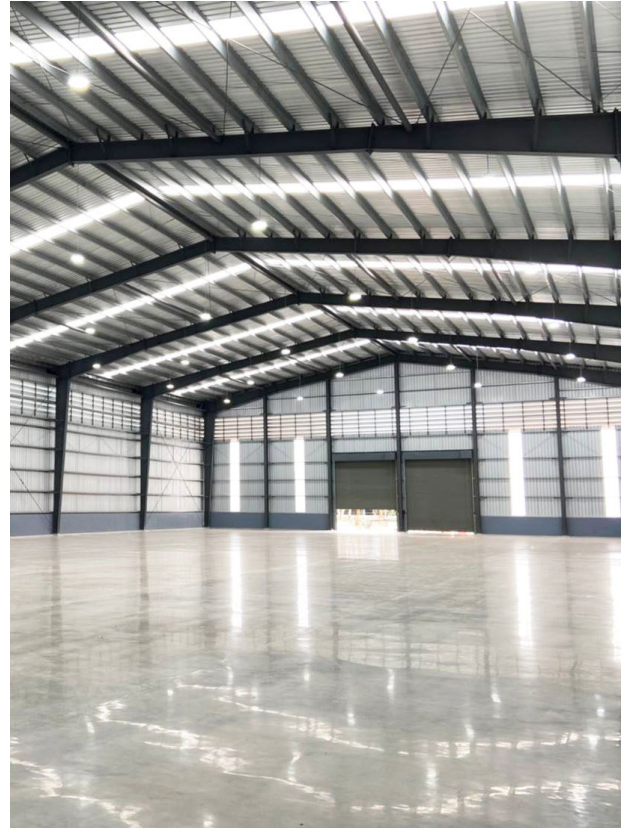
INTRODUCTION



TF Co., Ltd. was established in 2009 with an initial registered capital of 1 million baht, which has since increased to 15 million baht. The company's headquarters and warehouse are located on Ratchaphruek Road, Nonthaburi Province



with an office and showroom space of 1,000 square meters and a warehouse space of 1,500 square meters



Additionally, there are more than 5 steel manufacturing plants located in Thailand, China, and Vietnam.



TF BUILDING SOLUTION FOR APPLICATION FIELDS



TF Building is prefabricated building, the cutting edge designed based on the customers need. It can be used in variety purposes and sizes to serve their business, whether it is a new build or refurbishment project.



Warehouse
Factory
Commercial Building
Supermarket
Office & Parking
Sport & Gym
Other

ADVANTAGE

1. Cost Saving

- 1.1 Designed by reducing the steel sections according to the forces in each member.
- 1.2 Used less manpower and machines.



2. Time Saving

- 2.1 Fabrication in factory can be run together with foundation processes.
- 2.2 Faster installation by using only bolts and nuts.
- 2.3 Quality is controlled in factory and approved before shipping.



ADVANTAGE

3. Quality Control



RAW MATERIAL CHECKING



DRILLING & CUTTING CHECKING



FIT-UP CHECKING



WELDING CHECKING



SHOT BLASTING CHECKING



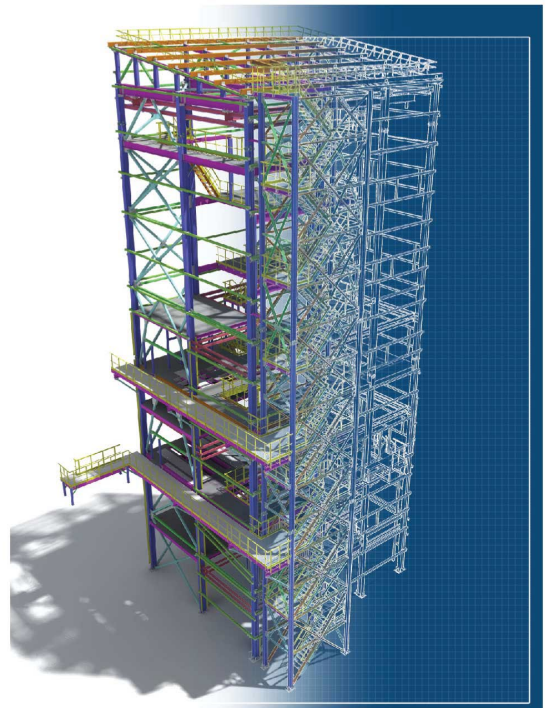
PAINTING CHECKING

DESIGN SOFTWARE



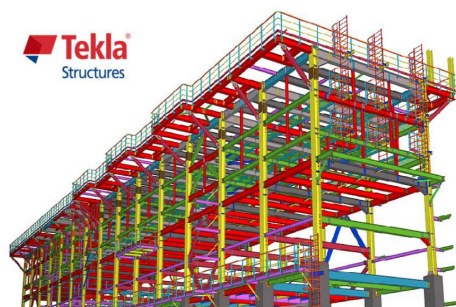
Our Design of Engineering part are fully computerized, utilizing the latest software packages to enable them to produce the most economical structures in the shortest time possible. The software packages most frequently. Used are : TEKLA, STAAD PRO, AUTO CAD.

Tekla Structures is powerful and flexible software for structural steel detailers and fabricators. We can create a detailed, constructible 3D model of any steel structure from industrial and commercial buildings to stadiums and high rise buildings. Working with Tekla software is the most productive way to manage detailing and realize the benefits of the model in fabrication and erection.



DESIGN SOFTWARE

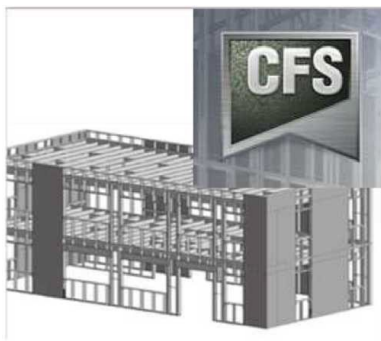
We are always conforming to international standards as UK, US, Australia. The engineers and skilled workers who are trained and have appropriate certificates to perform the jobs. All the designs and deployments are 3D modeled for checking and machining.



TEKLA STRUCTURE



TEKLA21



Cold rolled steel design



STAAD PRO – Structural analysis&design



CSI-ETAB 19 Structure analysis software



AutoCAD LT2022

DESIGN CODE

Innovation building is applying the international standard in analysis, design and manufacturing as:



1.AISC

- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
Manual of Steel Construction Allowable Stress Design (ASD)

2.AISI

- AMERICAN IRON & STEEL INSTITUTE
Cold Formed Steel Design Manual

3.MBMA

- METAL BUILDINGS MANUFACTURERS ASSOCIATION
Authoritative guide for the design and manufacture of pre-engineered steel buildings

4.ASCE

- AMERICAN SOCIETY OF CIVIL ENGINEERS
Minimum Design Loads for Buildings and Other Structures

5.AWS

- AMERICAN WELDING SOCIETY
Structural Welding Code Steel Manual

6.IBC 2009

- INTERNATIONAL BUILDING CODE



RAW MATERIAL

1.STEEL STRUCTURE RAW MATERIAL

2.COLD ROLLED, CLADDING STRUCTURE MATERIAL

QUALITY CERTIFICATE

These certifications signify Quality and International Standards for organizations or products.



1. UKAS Management Systems

- Certification from the United Kingdom Accreditation Service (UKAS), the UK's primary accreditation body for international quality assurance.

2. International Accreditation Forum (IAF)

- A global organization that establishes standards and guidelines for quality management system accreditation.

3. IAS Accredited

- Certification by the International Accreditation Service (IAS), which verifies compliance with international quality management standards.

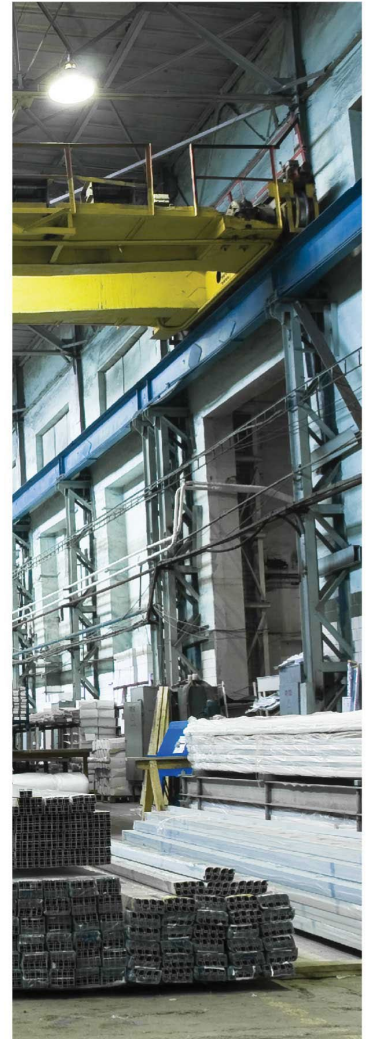
4. GICG (Global International Certification Group)

- A certification body that conducts audits and certifications for quality standards across various industries.

5. Bureau of Accreditation Vietnam

- A certification body in Vietnam that accredits quality and industry standards in the country.

MANUFACTURING PROCESS



*Capacity : Design, Manufacture & Erection of steel structures
(40,000 MT per year)*

MANUFACTURING PROCESS

EQUIPMENT

PROCESSING STEEL PLATES & V ANGLES



- 1.LASER CUTTING MACHINE
- 2.CNC LASER CUTTING

ASSEMBLING & AUTOMATIC WELDING LINE



- 1.VERTICAL H BEAM WELDING LINE
- 2.H BEAM ASSEMBLING & FITTING UP LINE
- 3.HORIZONTAL H BEAM WELDING LINE

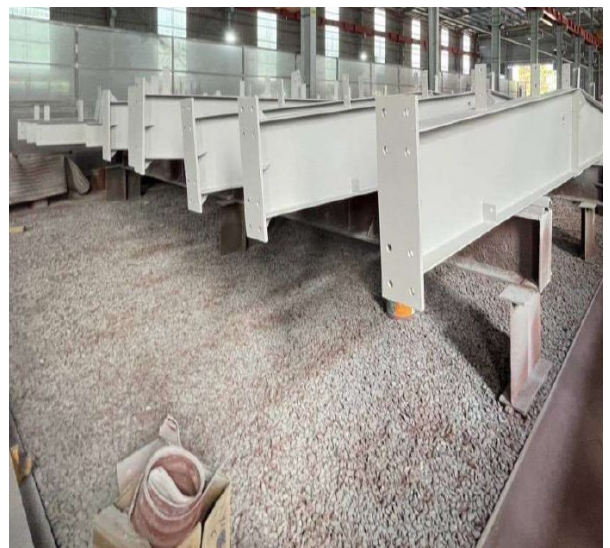
MANUFACTURING PROCESS

COMPLEMENT ASSEMBLY



SHOT BLASTING LINE

CLEANING & PAINTING



PAINTING LINE

MANUFACTURING PROCESS

QUALITY CONTROL



RAW MATERIAL CHECKING



DRILLING & CUTTING CHECKING



FIT-UP CHECKING



WELDING CHECKING



SHOT BLASTING

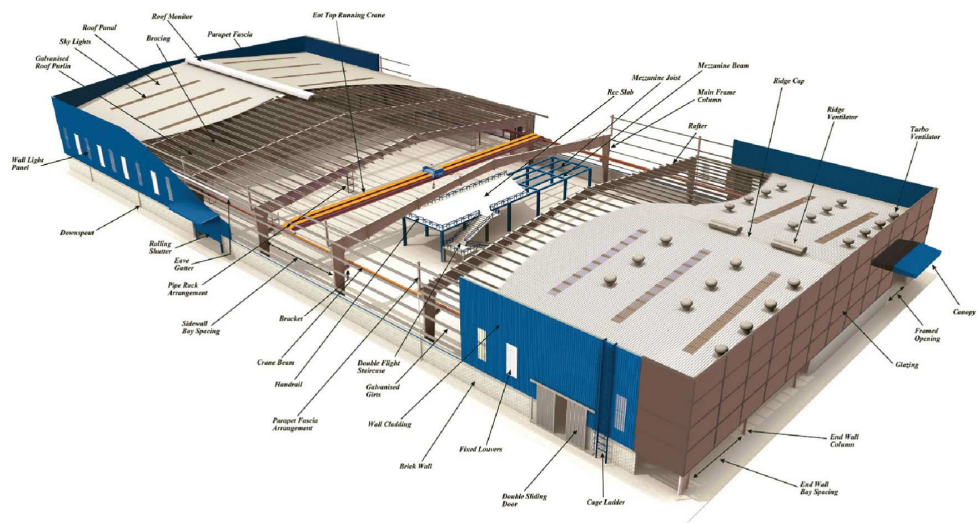


PAINTING

DESCRIPTION

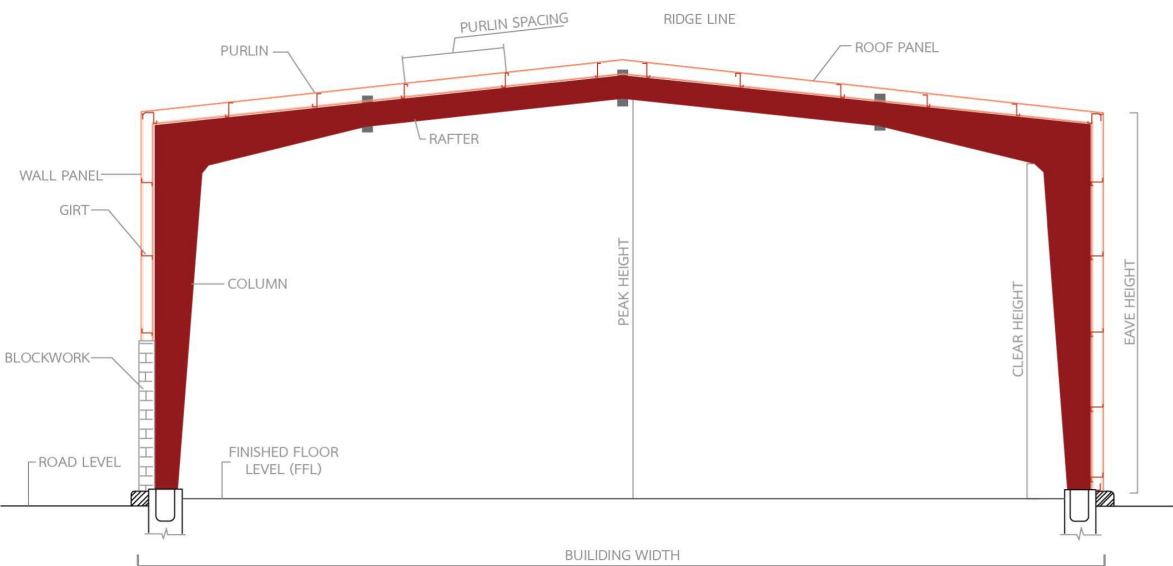
TF SMART BUILT SYSTEM

For those who demand quality at reasonable price



Overall structure of TF steel building system

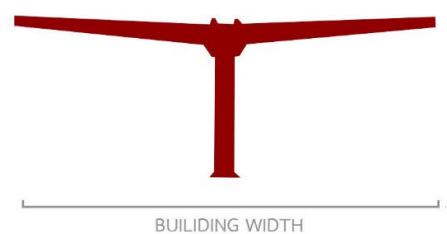
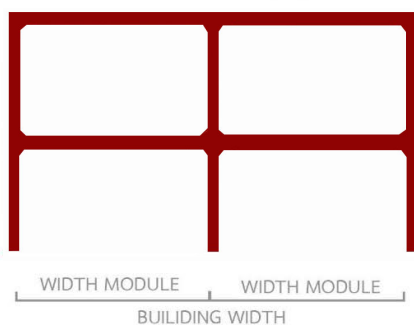
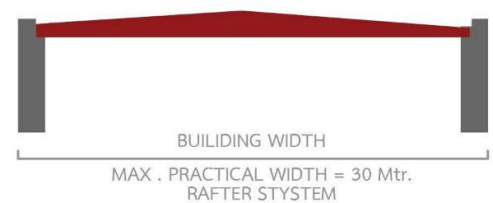
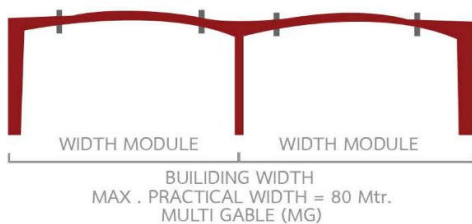
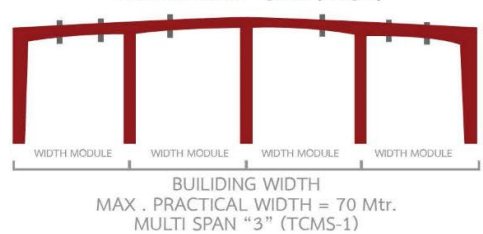
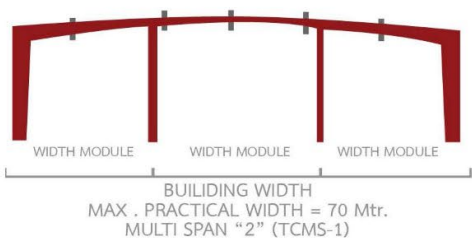
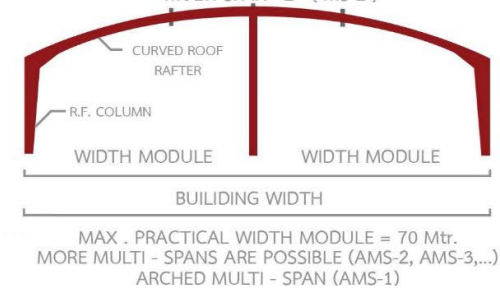
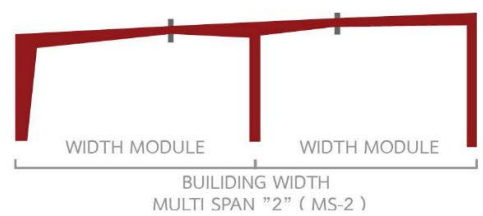
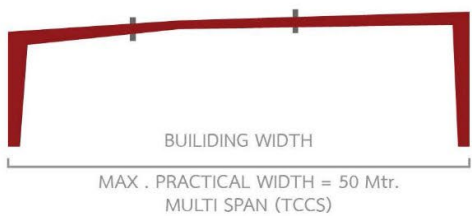
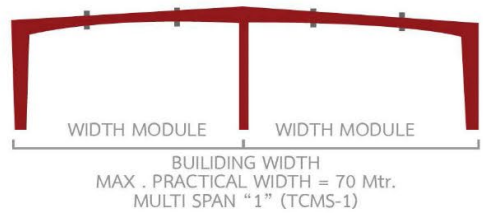
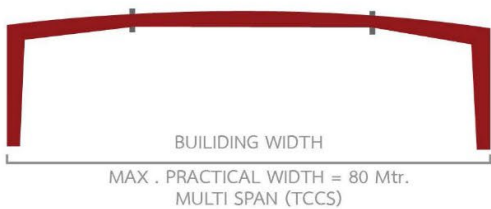
TF SMART BUILT PARAMETERS



- ◆ Building Width
- ◆ End bay length
- ◆ Building Height
- ◆ Building Length
- ◆ Design Load
- ◆ Roof Slope

DESCRIPTION

TF SMART BUILT TYPE



CONSTRUCTION PROCEDURE



CONSTRUCTION PROCEDURE

◆ CONCRETE FOUNDATION



CONSTRUCTION PROCEDURE

◆ STRUCTURE ERECTION



◆ METAL ROOF SHEET AND METAL WALL SIDING



CONSTRUCTION PROCEDURE

◆ ARCHITECTURAL WORK



◆ LIGHTING AND ELECTRICAL WORK



COMPLETE PROJECT



PROJECT REFERENCE



SPORT COMPLEX BUILDING 5 (STORIES)



Customer : Concordian International
School

Location : Bangkok

Area : 7,872 sq.m.

Width : 24.00 m.

Length : 82.00 m.

Height : 18.30 m.

RICE MILL



Customer : Rice mill
Location : Ayutthaya
Area : 9,000 sq.m.

Width : 70.00 m.
Length : 120.00 m.
Height : 12.00 m.

M&D



Customer : M&D Project (Food Factory)

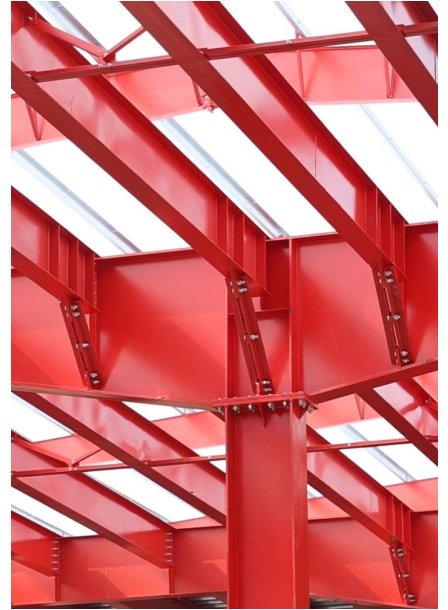
Location : Samut Sakhon

Area : 35,000 sq.m.

Width : 120.00 m.

Length : 150.00 m.

Height : 14.00 m.



Customer : M&D Project (Food Factory)

Location : Samut Sakhon

Area : 35,000 sq.m.

Width : 120.00 m.

Length : 150.00 m.

Height : 14.00 m.

THE SARA ESTATE



Customer : The SARA Estate Co.,Ltd

Location : Rayong

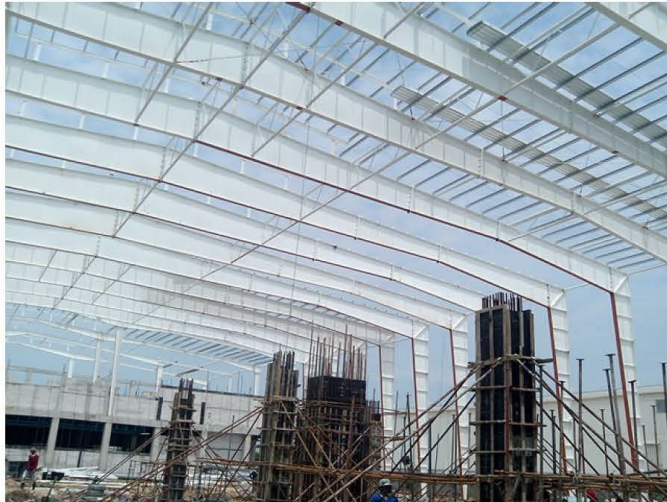
Area : 15,600 sq.m.

Width : 130.00 m.

Length : 120.00 m.

Height : 9.00 m.

ARMSTRONG RUBBER FACTORY PLANT



Customer : Armstrong Rubber &
Chemical Products Co.,Ltd

Location : Wellgrow Industrial

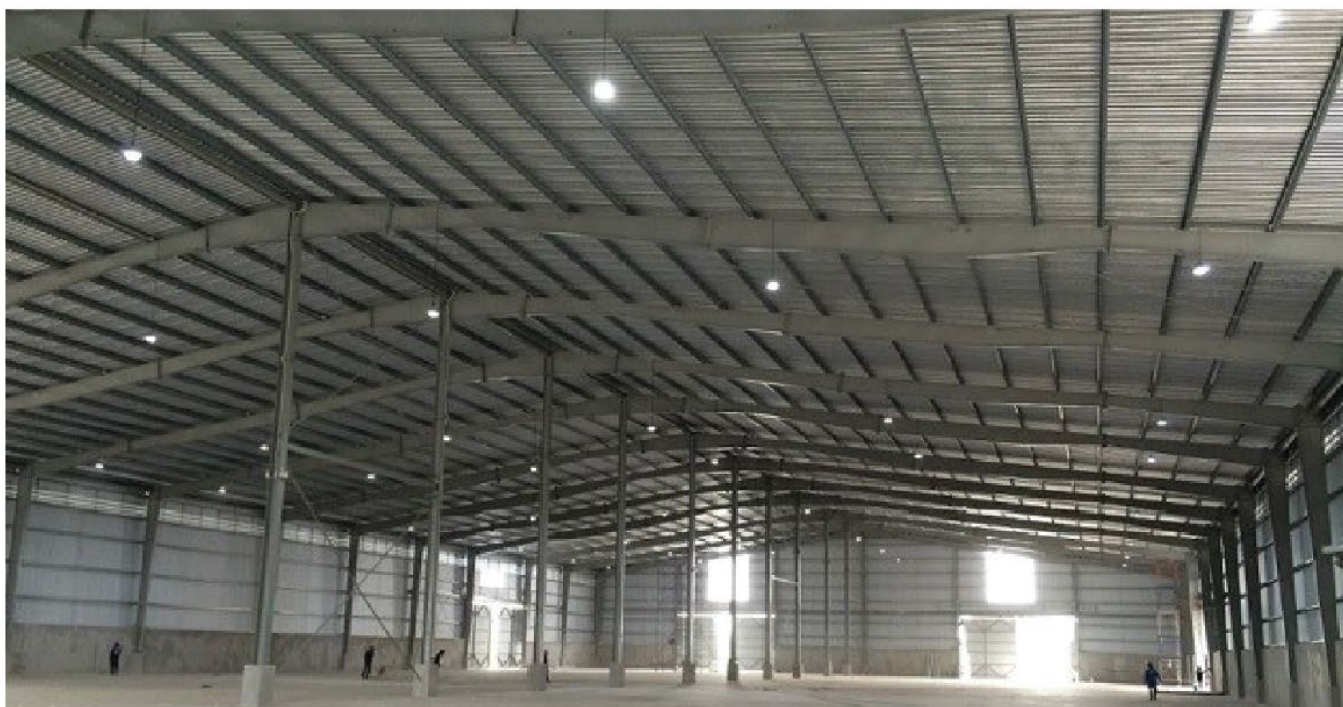
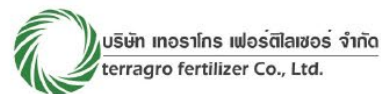
Area : 7,700 sq.m.

Width : 55.00 m.

Length : 140.00 m.

Height : 18.50 m.

FERTILIZER WAREHOUSE



Customer : Terragro Fertilizer Co., Ltd.

Location : Ayutthaya

Area : 10,500 sq.m.

Width : 90.00 m.

Length : 100.00 m.

Height : 9.00 m.

APEX CIRCUIT (THAILAND) CO.,LTD.



Customer : Apex Circuit Co.,Ltd.

Location : Samut Sakhon

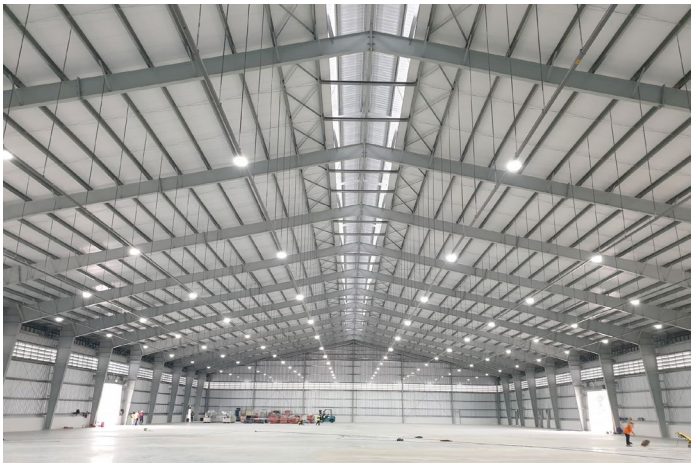
Area : 12,240 sq.m.

Width : 105.00 m.

Length : 120.00 m.

Height : 8.00 m.

POWERPRO CONSTRUCTION



Customer : Powerpro

Location : Chonburi

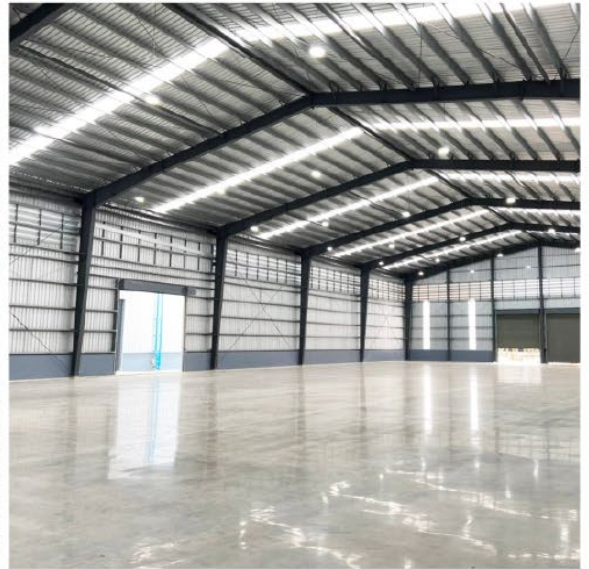
Area : 6,590 sq.m.

Width : 54.00 m.

Length : 112.00 m.

Height : 8.00 m.

ARUN CHAROENYING



Customer : Arun Charoenying Co.,Ltd

Location : Chachoengsao

Area : 5,465 sq.m.

Width : 96.50 m.

Length : 60.00 m.

Height : 9.00 m.

SPORT SCREEN FACTORY



Customer : Out of the Blue Box Co.,Ltd.

Location : Samut Sakhon

Area : 3,906 sq.m.

Width : 42.00 m.

Length : 62.00 m.

Height : 15.00 m.

FACTORY AND WAREHOUSE



Customer : Terabright Lighting Co.,Ltd.

Location : Nonthaburi

Area : 4,928 sq.m.

Width : 22.00 m.

Length : 224.00 m.

Height : 8.00 m.

SC AGRITECH CO.,LTD



Customer : SC Agritech Co.,Ltd.

Location : Chonburi

Area : 4,400 sq.m.

Width : 40.00 m.

Length : 100.00 m.

Height : 8.00 m.

SC HEALTHY DRINK



Customer : SC Healthy drink Co.,Ltd

Location : Chonburi

Area : 3,600 sq.m.

Width : 40.00 m.

Length : 60.00 m.

Height : 8.00 m.

HAN PHOENIX EXTERPRISE CO.,LTD



Customer : Han Phoenix Exterprise

Location : Chachoengsao

Area : 6,000 sq.m.

Width : 50.00 m.

Length : 120.00 m.

Height : 9.00 m.

BEST BEING REAL ESTATE



Customer : Best Being Real Estate

Location : Samut Prakan

Area : 4,266 sq.m.

Width : 36.00 m.

Length : 114.00 m.

Height : 9.00 m.

TBM FACTORY



Customer : TBM Factory

Location : Nakhon Pathom

Area : 4,480 sq.m.

Width : 38+18 m.

Length : 80.00 m.

Height : 8.00 m.

ROMKLAO PROGRESS



Customer : Romk Lao Progress Co.,Ltd

Location : Bangkok

Area : 4,000 sq.m.

Width : 20.00 m.

Length : 200.00 m.

Height : 6.00 m.

VIRIYA RUNGRUANG RECYCLE LTD.,PART



Customer : Viriya Rungruang Recycle

Location : Bangkok

Area : 3,200 sq.m.

Width : 30.00 m.

Length : 48.00 m.

Height : 9.00 m.

THAI SOLUTRADE CO.,LTD



Customer : Thai Solutrade Co.,Ltd.

Location : Pathum Thani

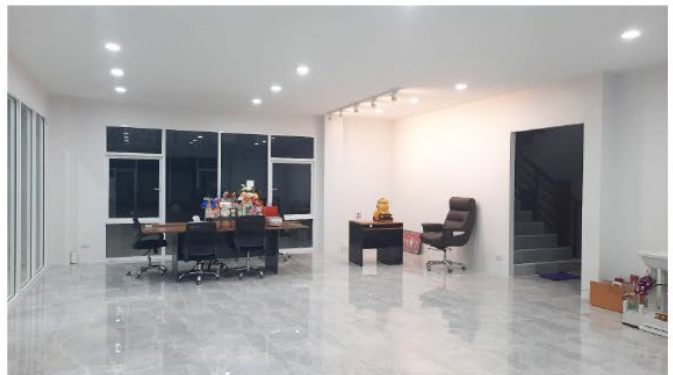
Area : 2,490 sq.m.

Width : 30.00 m.

Length : 78.00 m.

Height : 8.00 m.

STUDIO 365 CO.,LTD



Customer : Studio 365 Co.,Ltd

Location : Samut Prakan

Area : 2,088 sq.m.

Width : 35.00 m.

Length : 50.00 m.

Height : 8.00 m.

AK HEALTHY PRO



Customer : AK Healthy Pro (Medical food)

Location : Pathum Thani

Area : 2,500 sq.m.

Width : 23.00 m.

Length : 52.00 m.

Height : 8/10 m.

AK HEALTHY PRO



Customer : AK Healthy Pro (Medical food)

Location : Pathum Thani

Area : 2,500 sq.m.

Width : 23.00 m.

Length : 52.00 m.

Height : 8/10 m.

VELIFE INNOVATION CO., LTD.



Customer : Velife innovation Co.,Ltd.

Location : Samut Prakan

Area : 893 sq.m.

Width : 27.00 m.

Length : 36.00 m.

Height : 6.50 m.

TANK BLOW FACTORY_PHASE-A



Customer : Doctor Blow Molding

Location : Rayong

Area : 1,968 sq.m.

Width : 30.00 m.

Length : 64.00 m.

Height : 8.00 m.

TANK BLOW FACTORY_PHASE-B



Customer : Doctor Blow Molding

Location : Rayong

Area : 1,638 sq.m.

Width : 26.00 m.

Length : 63.00 m.

Height : 8.00 m.

MAXIMUM MACHINE CO.,LTD



Customer : Maximum Machine Co.,Ltd

Location : Ayutthaya

Area : 1,504 sq.m.

Width : 26.00 m.

Length : 56.00 m.

Height : 8.00 m.

MAXIMUM MACHINE CO.,LTD EXTENSION



Customer : Maximum Machine Co.,Ltd

Location : Ayutthaya

Area : 1,120 sq.m.

Width : 20.00 m.

Length : 56.00 m.

Height : 8.00 m.

MAXIMUM MACHINE CO.,LTD EXTENSION PHASE 2



Customer : Maximum Machine Phase 2

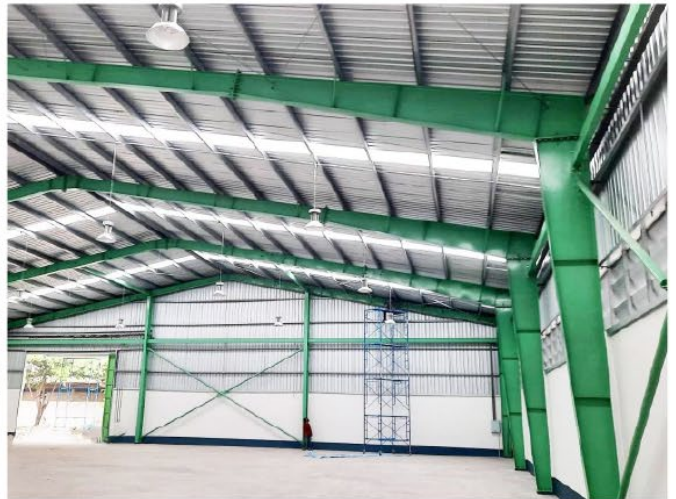
Location : Ayutthaya

Area : 1,274 sq.m.

Width : 26.00 m.

Length : 49.00 m.

Height : 8.00 m.



Customer : M.S.Y.Engineering Co.,Ltd

Location : Pathum Thani

Area : 1,466.15 sq.m.

Width : 29.50 m.

Length : 49.70 m.

Height : 8.00 m.

LONG CHUMSAENG GROUP



Customer : Long Chumsaeng Group

Location : Pathum Thani

Area : 1,200 sq.m.

Width : 25.00 m.

Length : 48.00 m.

Height : 10.00 m.

FOOD FILM FACTORY

BlancTec®



Customer : BlancTec Co.,Ltd.

Location : Prachin Buri

Area : 1,344 sq.m.

Width : 24.00 m.

Length : 56.00 m.

Height : 6.00 m.

JC METAL FACTORY



Customer : JC Metal

Location : Nonthaburi

Area : 1,200 sq.m.

Width : 20.00 m.

Length : 60.00 m.

Height : 11.00 m.

DINOMART



Customer : Dinomart

Location : Samut Sakhon

Area : 2,304 sq.m.

Width : 32.00 m.

Length : 72.00 m.

Height : 8.00 m.



Customer : Use Storage Equipment

Location : Pathum Thani

Area : 3,600 sq.m.

Width : 45.00 m.

Length : 80.00 m.

Height : 9.00 m.

SIAM WAREHOUSE



Customer : Siam Warehouse

Location : Rayong

Area : 7,000 sq.m.

Width : 50.00 m.

Length : 140.00 m.

Height : 9.00 m.

SUN MOON BUILD



Customer : Sun moon build

Location : Tak

Area : 6,360 sq.m.

Width : 53.00 m.

Length : 120.00 m.

Height : 9.00 m.

WAREHOUSE EXTENSION



Customer : Khao Shong Group Co.,Ltd

Location : Chachoengsao

Area : 3,808 sq.m.

Width : 28.00 m.

Length : 136.00 m.

Height : 8.00 m.

WASTE STORAGE



Customer : Khao Shong Group Co.,Ltd

Location : Chachoengsao

Area : 114 sq.m.

Width : 6.00 m.

Length : 19.00 m.

Height : 4.00 m.

SA INTERPART



Customer : SA Interpart

Location : Chachoengsao

Area : 1,080 sq.m.

Width : 20.00 m.

Length : 35.00 m.

Height : 9.00 m.

STAR SUN FOOD



Customer : Star sun food

Location : Phetburi

Area : 1,000 sq.m.

Width : 27.00 m.

Length : 47.00 m.

Height : 8.00 m.

MIRACLAS COMPANY LIMITED



Customer : Miraclas

Location : Samut Prakan

Area : 800 sq.m.

Width : 16.00 m.

Length : 50.00 m.

Height : 6.00 m.

SIAM WAREHOUSE



Customer : Siam Warehouse

Location : Samut Prakan

Area : 90,000sq.m.

Width : 50-80 m.

Length : 100-150 m.

Height : 8.00 m.

CONTAINER FACTORY



Customer : Container Factory

Location : Samut Sakhon

Area : 1,740 sq.m.

Width : 29.00 m.

Length : 60.00 m.

Height : 9.50 m.

RENTOR WAREHOUSE



Customer : Rentor Warehouse

Location : Bangkok

Area : 640 sq.m. (30 Unit)

Width : 20.00 m.

Length : 32.00 m.

Height : 8.00 m.

TREEFRAME INTERTRADE



Customer : Treeframe Warehouse

Location : Nonthaburi

Area : 2,532 sq.m.

Width : 32.00 m.

Length : 62.00 m.

Height : 8.00 m.

SHUANGHUI DEVELOPMENT



Customer : Shuanghui

Location : Nakhon Si Thammarat

Area : 2,144 sq.m.

Width : 28.00 m.

Length : 72.00 m.

Height : 8.00 m.

RAKTORANI FACTORY



Customer : Raktorani

Location : Ratchaburi

Area : 1,560 sq.m.

Width : 30.00 m.

Length : 48.00 m.

Height : 7.00 m.

PORFAH PHASE 1



Customer : Porfah Phase 1

Location : Uttaradit

Area : 1,080 sq.m.

Width : 30.00 m.

Length : 36.00 m.

Height : 8.00 m.

PORFAH PHASE 2



Customer : Porfah Phase 2

Location : Uttaradit

Area : 600 sq.m.

Width : 30.00 m.

Length : 20.00 m.

Height : 8.00 m.

SOTUS ENGINEERING COMPANY LIMITED



Customer : Sotus Engineer

Location : Chonburi

Area : 925 sq.m.

Width : 25.00 m.

Length : 32.00 m.

Height : 6.00 m.

JSB TRADING



Customer : JSB Trading

Location : Samut Sakorn

Area : 1,080 sq.m.

Width : 18.00 m.

Length : 60.00 m.

Height : 7/9 m.

THEPPRATANPORN INTERNATIONAL CO.,LTD.



Customer : Theppratanporn
International co.,ltd.

Location : Bangkok

Area : 300 sq.m.

Width : 7.00 m.

Length : 21.00 m.

Height : 6.00 m.

FOODTECH PRODUCTS (THAILAND) COMPANY LIMITED (House)



Customer : Foodtech Products (house)

Location : Nakhon Nayok

Area : 166.50 sq.m.

Width : 9.00 m.

Length : 18.50 m.

Height : 3.00 m.

FOODTECH PRODUCTS (THAILAND) COMPANY LIMITED



Customer : Foodtech Products

Location : Pathum Thani

Area : 450&345 sq.m.

Width : 15/15 m.

Length : 30/23 m.

Height : 8.00 m.

Curved roof of Bamrung Wittaya School



Customer : Bamrung Wittaya School

Location : Buriram

Area : 1,050 sq.m.

Width : 25.00 m.

Length : 42.00 m.

Height : 8.00 m.

E.G.O. MULTITASK COMPANY LIMITED



Customer : E.G.O. Multitask

Location : Bangkok

Area : 1,071 sq.m.

Width : 21.00 m.

Length : 51.00 m.

Height : 6.50 m.

OTTONICK WORLD CO., LTD



Customer : Ottonick World Co.,Ltd

Location : Pathum Thani

Area : 2,000 sq.m.

Width : 25.00 m.

Length : 80.00 m.

Height : 8/10 m.

HUALONG INTERNATIONAL FOODS CO.,LTD



Customer : Hualong International

Location : Phetchaburi

Area : 2,688 sq.m.

Width : 28.00 m.

Length : 96.00 m.

Height : 9.00 m.

DJT AUTO GROUP CO., LTD



Customer : DJT Auto Group Co.,Ltd

Location : Nonthaburi

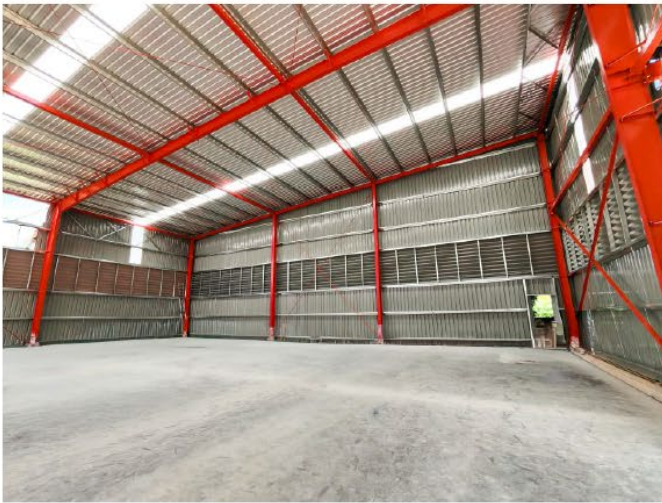
Area : 252 & 672 sq.m.

Width : 10.5&12 m.

Length : 24&56 m.

Height : 6.00 m.

N.D. RICH WAREHOUSE Co., Ltd



Customer : ND. Rich

Location : Nonthaburi

Area : 805 sq.m.

Width : 23.00 m.

Length : 35.00 m.

Height : 7/9 m.

SHINIJI PRO ENGINEERING COMPANY LIMITED



Customer : Shiniji Pro
Location : Chonburi
Area : 3,344 sq.m.

Width : 44.00 m.
Length : 76.00 m.
Height : 6.80 m.

MONGKOL DESIGN & CONSTRUCTION CO.,LTD.



Customer : Mongkol Design & Construction

Location : Samut Prakan

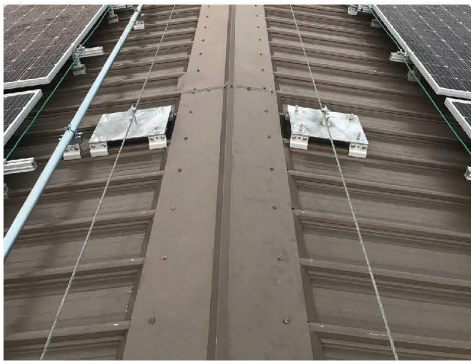
Area : 760 sq.m.

Width : 20.00 m.

Length : 38.00 m.

Height : 6.00 m.

ROOFTOP PROJECT



Customer : MPK Progress Co.,Ltd
Location : Bangkok
Area : 403 sq.m.

Width : 31.00 m.
Length : 13.00 m.
Height : 7.40 m.

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SMART BUILT

PRE ENGINEERED STEEL BUILDING

DESIGN - MANUFACTURING
ERECTION - CONSTRUCTION - TURNKEY



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