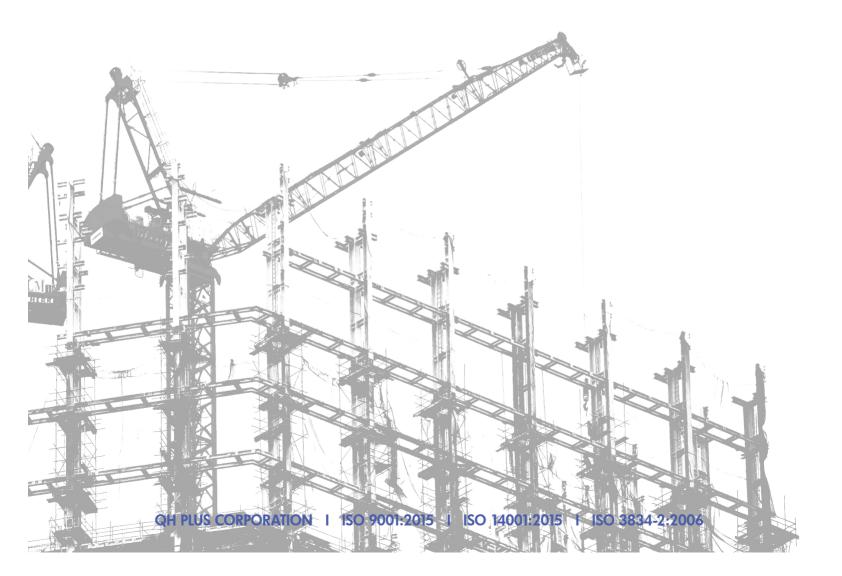


STEEL BUILDINGS BROCHURE



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Your life would be nice.. ..if you are safe. And..

> WE ARE BUILDING IT QH Plus



STEEL BUILDINGS INTRODUCTION

In today's construction industry, the standards of construction works have gradually changed to become faster, better and more cost-effective. For some constructions requiring specific requirements on scale, time and quality, then STEEL construction has met all those requirements.

For a long time, industrial countries in the world have been using steel building to create magnificent works and buildings, such as: EIFFEL TOWER (FRANCE), BROOKLYN BRIDGE (USA), BUJI KHALIFA (SAUDI ARABIA), EMPIRE STATE TOWER (USA),...



In Vietnam, steel buildings has been increasingly used in many construction works.



QH Plus is proud to be a reliable supplier of steel building for many contractors and investors in Vietnam. With total area of 45,000 m², QH Plus's factory has been equipped the modern production lines from Italy, USA and stringent quality control system. We can supply the highest quality products and services to customers in conformity with Vietnamese standards and International standards.

All producing processes have to meet all requirements of ISO 3834-2:2006 to ensure comprehensive product quality.

With a great investment on our services, QH Plus is completely trusted by contractors, investors in implementing many national and global projects, such as: Vinhomes Central Park complex center of Vingroup, included the Landmark 81 floors (Steel core system), high-end apartment (Kingpost), landscape park, pedestrian bridge, yatch station (Art steel structure), and important national constructions such as: Ben Thanh metro station, Ba Son factory,...Besides, we also provided our services for other civil constructions of many contractors & investors such as: Novaland Group, Nam Long Group, Hoa Binh Group, Coteccons, Unicons,...

WHY QH PLUS?



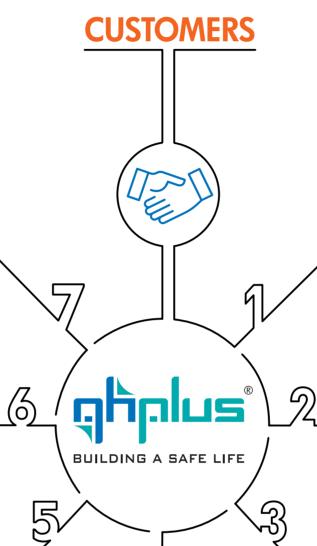
Technical supervision, quality inspection & close monitoring every equipment used for erection.



All erection standards of steel structure works are applied to ensure the safety, techinal requirements, and project schedule.



All products are carefully packed & delivered to the site by QH Plus's transportation system.



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QUALITY CONTROL

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OPTIMAL DESIGN

Specialized structural engineering team with the latest calculation software such as: Tekla, Staad Pro, SAP 2000, CFS, Autocad,...

HIGHLY-GRADED MATERIALS



Qualified sources of materials from reputable partners, such as: Hyundai, Nippon Steel, JFE Steel,...meet all international standards such as: ASTM (USA), JIS (Japan), CIS (China),...





The state - of - the - art technology from Italy, USA, ...equipped in our largescale factories.





PRODUCTS & SERVICES

PRE-ENGINEERED BUILDINGS

1. PRE-ENGINEERED BUILDING INTRODUCTION 2. PRE-ENGINEERED BUILDING STRUCTURES

FOUNDATION SYSTEM FRAMING SYSTEM BRACING SYSTEM CRANE SYSTEM FLOORING SYSTEM PURLIN SYSTEM CLADDING SYSTEM BUILDING ACCESSORIES

3. ADVANTAGES OF PRE-ENGINEERED BUILDINGS

CONSTRUCTION & INSTALLATION

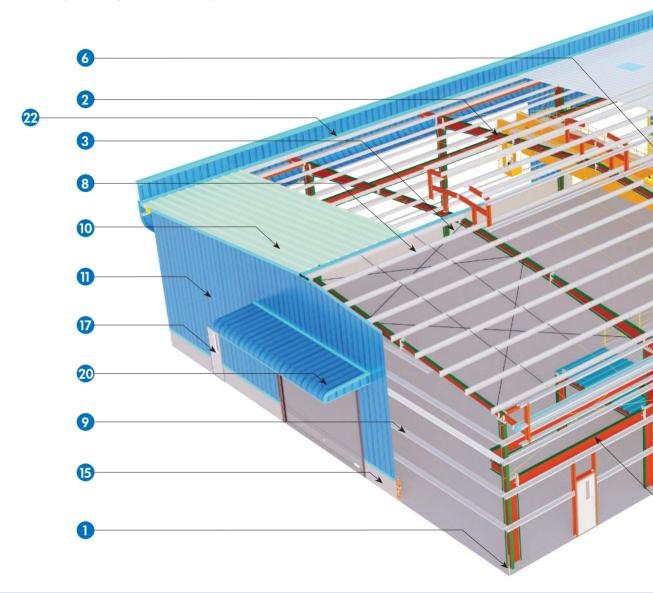
1. INTRODUCTION TO CONSTRUCTION & INSTALLATION SERVICE 2. TYPICAL CONSTRUCTION WORKS

STEEL STRUCTURES

- 1. STEEL STRUCTURE INTRODUCTION
- 2. TYPICAL CROSS SECTIONS OF STEEL MEMBERS
- 3. APPLICATIONS OF STEEL STRUCTURES
- 4. QH PLUS'S ADVANTAGES IN STEEL STRUCTURE PROCESSING SERVICES

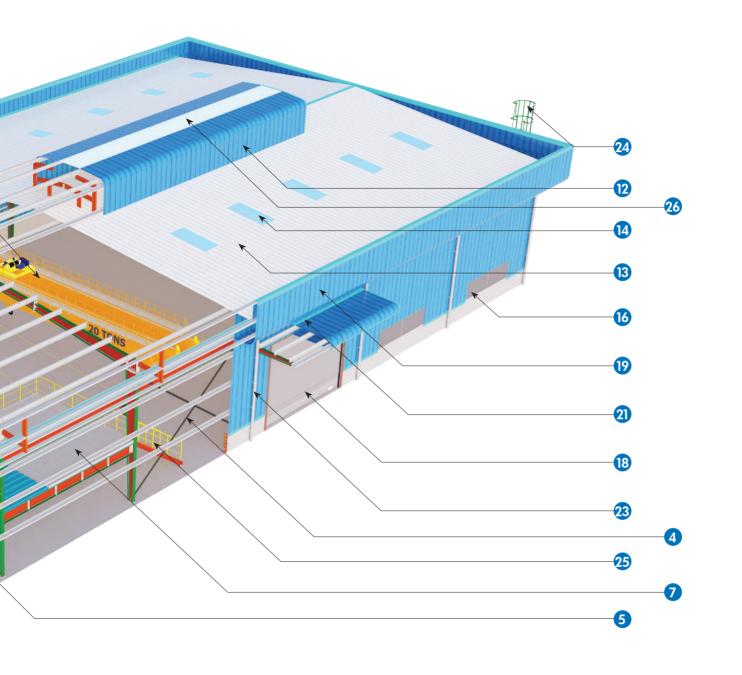
PRE-ENGINEERED BUILDINGS INTRODUCTION

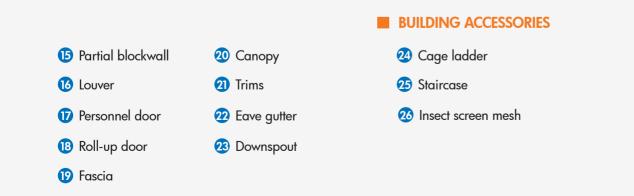
"Pre-engineered steel buildings" are those which are fully fabricated in the factory after designing, shipped to construction site to be assembled and erected; thereby reducing the time of completion.



2. PRE-ENGINEERED BUILDING STRUCTURE







FOUNDATION SYSTEM

QH Plus owns modern production line which can provide anchor bolts with various specifications and gavalnized to meet all customer's requirements.

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1. L TYPE → →

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2	2
V	2
	5
E	3

ITEM CODE	D (mm)	THREADING SPEC. M (mm)	L (mm)	material Grade
FAB-LT-D16L400	16	M16	400	
FAB-LT-D18L500	18	M18	500	
FAB-LT-D20L600	20	M20	600	
FAB-LT-D22L700	22	M22	700	
FAB-LT-D24L800	24	M24	800	
FAB-LT-D26L900	26	M26	900	4.6, 5.6,
FAB-LT-D28L1000	28	M28	1000	8.8
FAB-LT-D30L1150	30	M30	1150	
FAB-LT-D33L1200	33	M33	1200	
FAB-LT-D36L1250	36	M36	1250	
FAB-LT-D42L1300	42	M42	1300	
FAB-LT-D48L1350	48	M48	1350	

₩	ITEM CODE	D (mm)	THREADING SPEC. M (mm)	L (mm)	MATERIAL GRADE
	FAB-JT-D16L400	16	M16	400	
-	FAB-JT-D18L500	18	M18	500	
]	FAB-JT-D20L600	20	M20	600	
′ ⊻	FAB-JT-D22L700	22	M22	700	
	FAB-JT-D24L800	24	M24	800	
	FAB-JT-D26L900	26	M26	900	4.6, 5.6,
	FAB-JT-D28L1000	28	M28	1000	8.8
	FAB-JT-D30L1150	30	M30	1150	
	FAB-JT-D33L1200	33	M33	1200	
	FAB-JT-D36L1250	36	M36	1250	
	FAB-JT-D42L1300	42	M42	1300	

48

M48

1350

3. Y TYPE (PLAIN)

Г

ITEM CODE	D (mm)	THREADING SPEC. M (mm)	L (mm)	MATERIAL GRADE
FAB-YT-D16L400	16	M16	400	
FAB-YT-D18L500	18	M18	500	
FAB-YT-D20L600	20	M20	600	
FAB-YT-D22L700	22	M22	700	
FAB-YT-D24L800	24	M24	800	
FAB-YT-D26L900	26	M26	900	4.6, 5.6,
FAB-YT-D28L1000	28	M28	1000	8.8
FAB-YT-D30L1150	30	M30	1150	
FAB-YT-D33L1200	33	M33	1200	
FAB-YT-D36L1250	36	M36	1250	
FAB-YT-D42L1300	42	M42	1300	
FAB-YT-D48L1350	48	M48	1350	

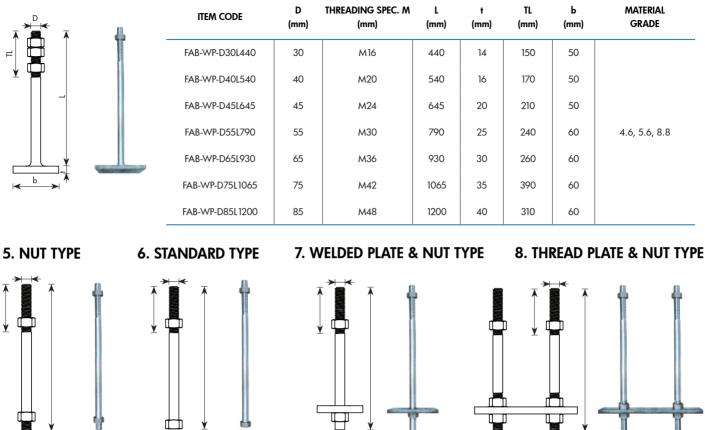


FAB-JT-D48L1350



Note: For special requirement, please contact QH Plus to be recommended the best solution.

4. WELDED PLATE TYPE



m **ITEM CODE**

FAB-ST

ITEM CODE FAB-WPN

10. O TYPE

ITEM CODE FAB-TPN

9. Y TYPE (RIBBED)

ITEM CODE

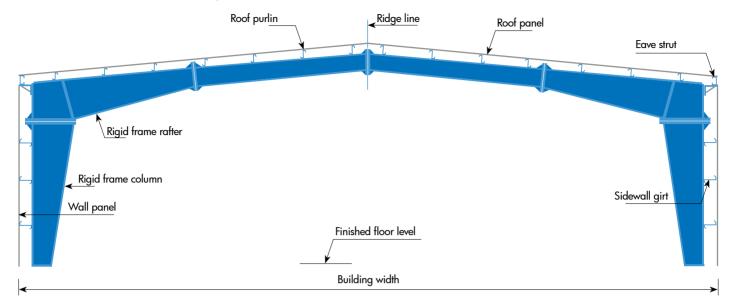
FAB-NU

	ITEM CODE	D (mm)	THREADING SPEC. M (mm)	L (mm)	MATERIAL GRADE	ITEM CODE	D (mm)	THREADING SPEC. M (mm)	L (mm)	HOLE Ø (mm)	MATERIAL GRADE
¥ ₽	SYN4-D18M16L235	18	16	235		SON4-D16M10L180	16	10	180	10	
	SYN4-D20M18L240	20	18	240		SON4-D16M12L185	16	12	185	10	
A	SYN4-D22M20L240	22	20	240		SON4-D18M14L185	18	14	185	11.5	
$\langle \! \langle \! \rangle \rangle $	SYN4-D25M22L290	25	22	290		301N4-D 10M 14L 103	10	14	COI	11.5	
0	SYN4-D28M24L290	28	24	290		SON4-D18M16L240	18	16	240	11.5	
4	SYN4-D32M27L340	32	27	340	4.6, 5.6, 8.8	SON4-D20M18L240	20	18	240	15	4.6, 5.6, 8.8
	SYN4-D32M30L360	32	30	360		SON4-D22M20L310	22	20	310	15	
No. 10	SYN4-D36M33L360	36	33	360		SON4-D25M22L310	25	22	310	15	
N. N. W. W. W.	SYN4-D43M36L410	43	36	410							
N. N	SYN4-D43M39L460	43	39	460		SON4-D28M24L360	28	24	360	15	
(C) TA	SYN4-D51M48L460	51	48	460		SON4-D32M27L410	32	27	410	19	

Note: For special requirement, please contact QH Plus to be recommended the best solution.

FRAMING SYSTEM

Primary frames are the main load-carrying structural steel components. They consist of columns and rafters connected together by bolts. All technical standards of materials, sections, welding specifications, ...ensure that the carrying capacity of the main frame can reach or exceed the design loads.

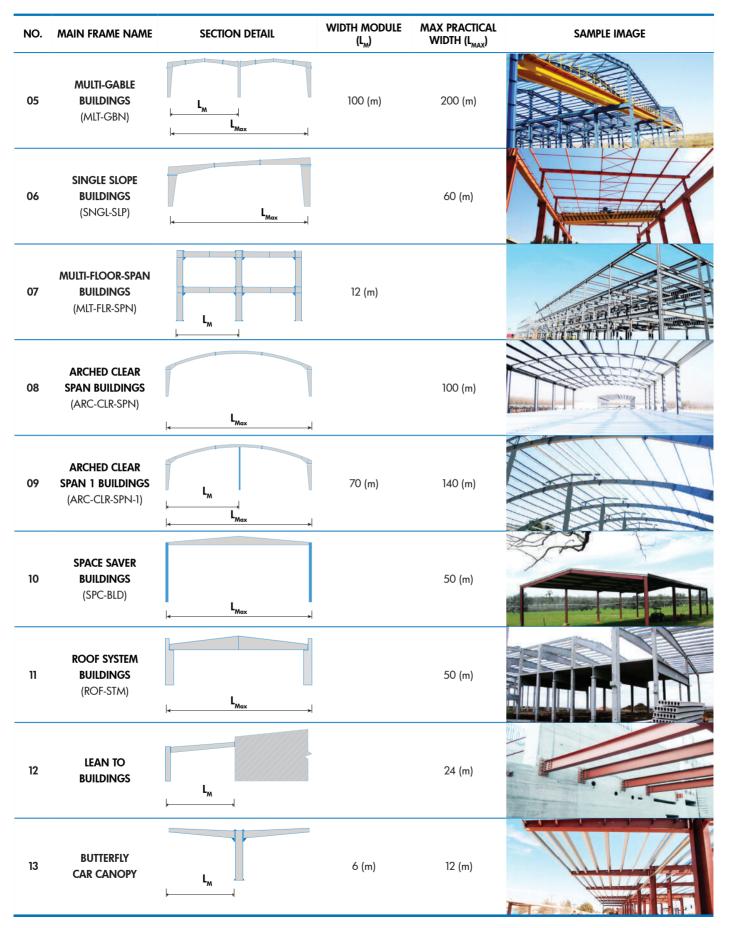


A TYPICAL CROSS SECTION

MAIN FRAME TYPES

Besides common framing types of pre-engineered buildings, QH Plus can discuss and recommend the best solution to meet customer's special requirements.

NO.	MAIN FRAME NAME	SECTION DETAIL	WIDTH MODULE (L _M)	MAX PRACTICAL WIDTH (L _{MAX})	SAMPLE IMAGE
01	CLEAR SPAN BUILDINGS (CLR-SPN)			100 (m)	
02	Multi-Span 1 Buildings (MLT-Spn-1)		75 (m)	150 (m)	
03	MULTI-SPAN 2 BUILDINGS (MLT-SPN-2)	L _M L _{Max} →	70 (m)	210 (m)	
04	MULTI-SPAN 3 BUILDINGS (MLT-SPN-3)		70 (m)	280 (m)	



Note: For special requirement, please contact QH Plus to be recommended the best solution.

BUILDING ACCESSORIES

BRACING SYSTEM

1. CABLE BRACE



Hot dip galvanized steel cable according to EN 12385 or GB/ T20118-2006 standard or equivalent.

Tensile strength: Fu = 157 kN / cm²

3. ANGLE BRACE



Galvanized, silver-plated rod bracing for rafters, columns,...

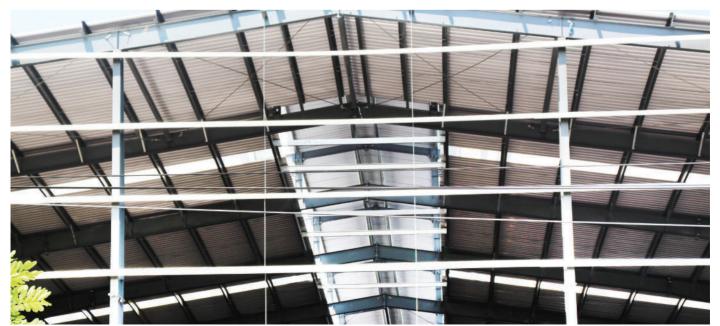
]				
►		L			>
	ITEM CODE	THREADING SPEC. M (MM)	L (mm)	L1/L2 (mm)	MATERIAL GRADE
	TRD-M6	6			
	TRD-M8	8			
	TRD-M10	10			
	TRD-M12	12			
	TRD-M16	16	50 - 3000	5 - 200	4.6, 5.6, 8.8
	TRD-M18	18			
	TRD-M20	20			
	TRD-M22	22			
	TRD-M24	24			





2. SAG ROD

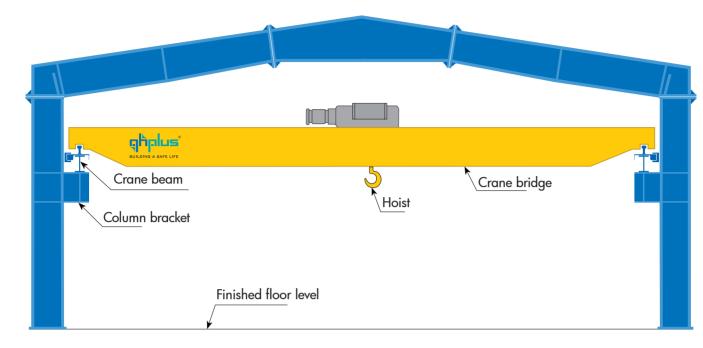




BUILDING ACCESSORIES

CRANE SYSTEM

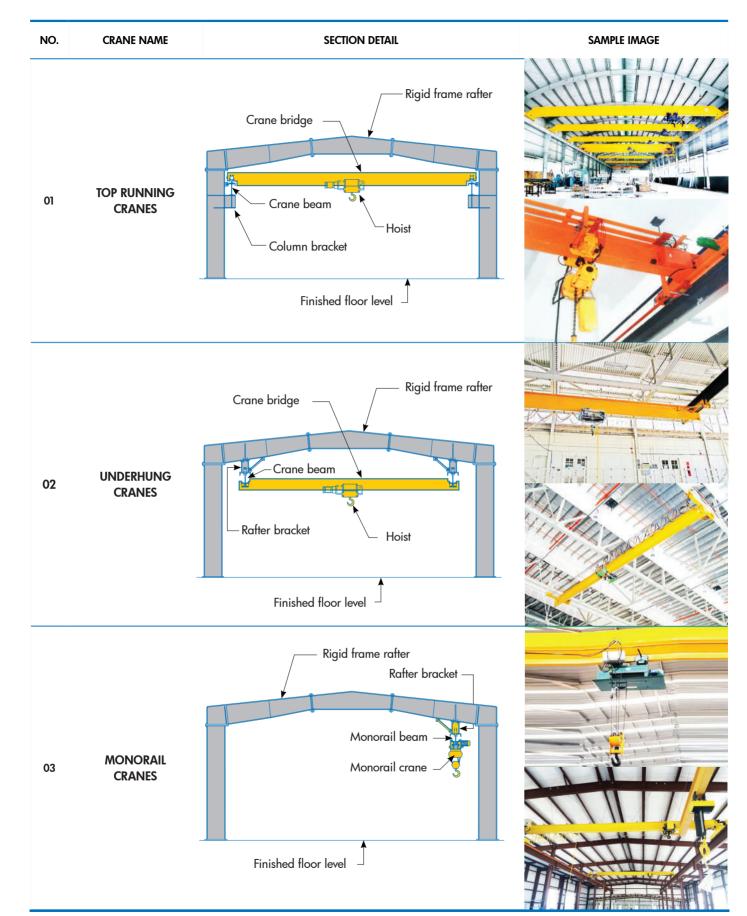
QH Plus processes and provides many types of overhead cranes with various shapes and lifting capacity



TOP RUNNING CRANE (TPR-CRN)

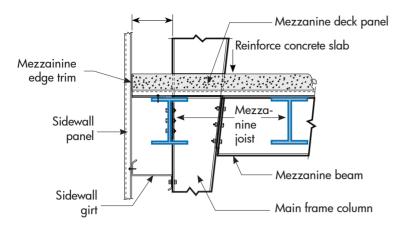


STANDARD CRANE SYSTEM

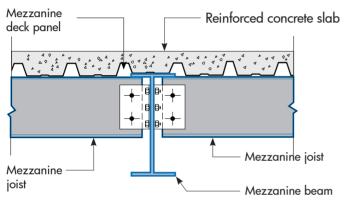


FLOORING SYSTEM

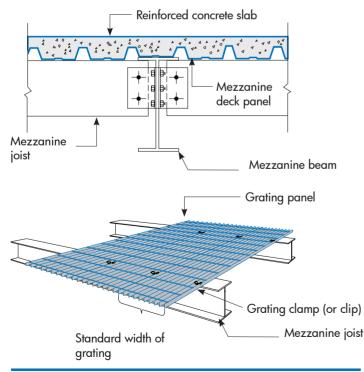
1. MEZZANINE BEAM



2. MEZZANINE JOIST



3. DECKING & GRATING FLOOR



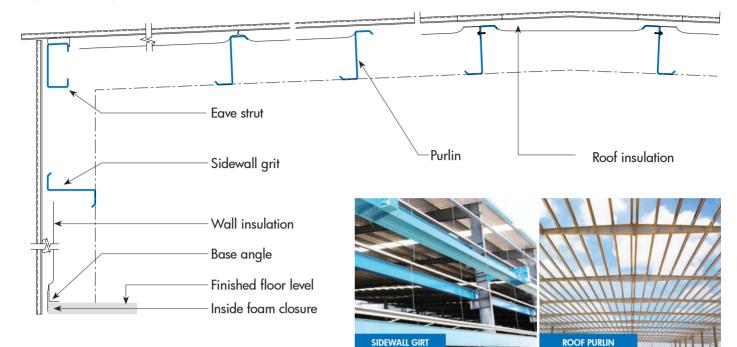






PURLIN SYSTEM

QH Plus is proud to provide 2 types of common purlins that can meet the most rigorous quality requirements: C purlins and Z purlins.



1. Z PURLIN

ITEM CODE	H (mm)	B (mm)	C (mm)	SECTION DETAIL	ILLUSTRATION	APPLICATION
Z150	150	65	25 max			
Z200	200	58	25 max		12/1	
Z250	250	65	25 max		•/-	
Z290	290	90	25 max	B		

2. C PURLIN

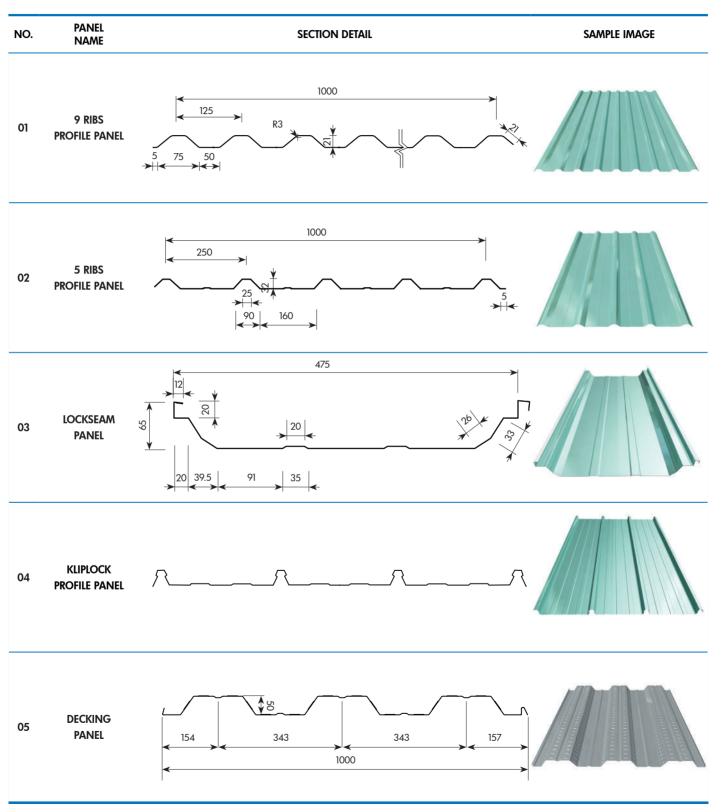
ITEM CODE	H (mm)	B (mm)	C (mm)	SECTION DETAIL	ILLUSTRATION	APPLICATION
C150	150	65	25 max			
C200	200	58	25 max		1	
C250	250	65	25 max			

Note: For special requirement, please contact QH Plus to be recommended the best solution.

CLADDING SYSTEM

QH Plus invests production lines with new technologies for the best of roofing, walling & flooring products, according up-to-date standards in order to provide total solutions to customers.

1. CLADDING & FLOORING PANEL



Note: For special requirement, please contact QH Plus to be recommended the best solution.

CLADDING SYSTEM

2. RIDGE VENTILATOR



3. SKYLIGHT



5. PERSONNEL DOOR

4. LOUVER





6. ROLL-UP DOOR



CLADDING SYSTEM

Note: For special requirement, please contact QH Plus to be recommended the best solution.

BRACING SYSTEM

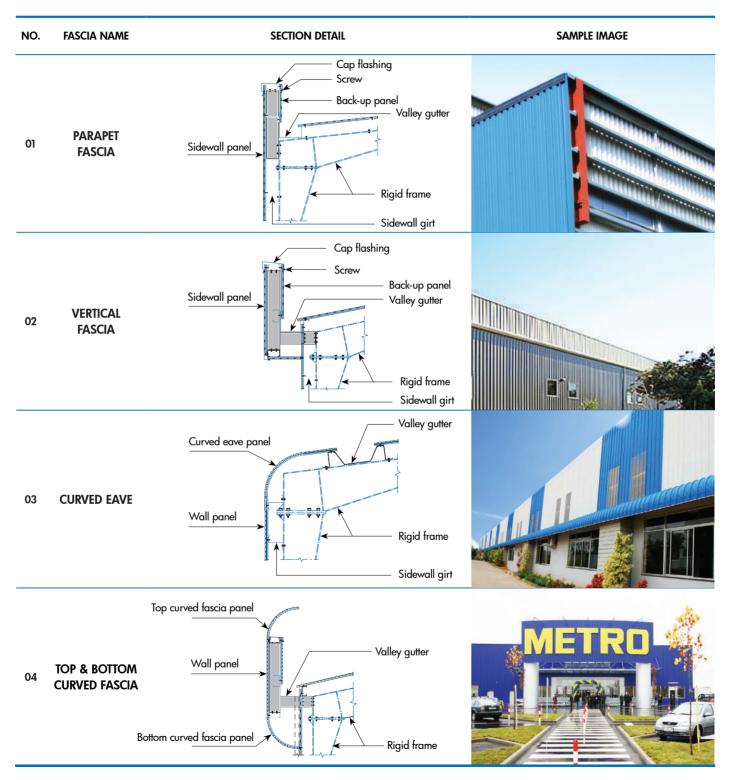
FLOORING SYSTEM

7. FASCIA

SIDEWALL FASCIA

According to the purpose of customer that QH Plus can design, process and erect different types of fascias as listed below.

STANDARD TYPES OF FASCIAS



CLADDING SYSTEM

8. TRIM

NO.	TRIM NAME	SECTION DETAIL	SAMPLE IMAGE
01	RIDGE CAP	278 90 145 1500	
02	GABLE TRIM		
03	CAP FLASHING		
04	TRANSFER FLASHING FOR ROOF-TOP		
05	DRIP TRIM	$\begin{array}{c} & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ $	
06	OUTSIDE CORNER TRIM		

9. GUTTER

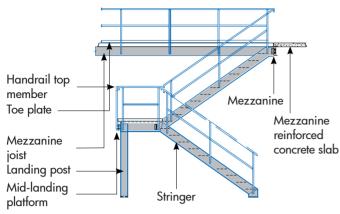
NO.	GUTTER NAME	SECTION DETAIL	SAMPLE IMAGE
01	EAVE GUTTER		
02	VALLEY GUTTER		
03	DOWNSPOUT		

For special requirement, please contact QH Plus to be recommended the best solution.

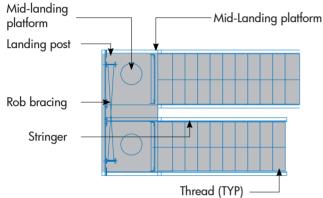


BUILDING ACCESSORIES

1. STAIRCASE

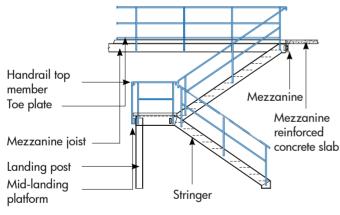


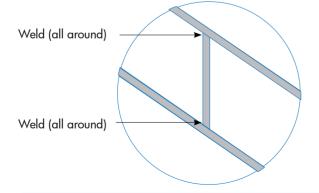






2. HANDRAIL









3. ADVANTAGES OF PRE-ENGINEERED BUILDINGS

Pre-engineered buildings have gradually replacing the traditional on-site concrete construction due to its advantages and benefits provided:



Reducing loads on foundation and offer greater resistance to seismic forces.



Reduce foundation cost due to light weight structure and shorten construction time.



Optimize using space compared with concrete structures in public constructions: trade centers, exhibition centers, airports, stadiums,...



All steel members are connected by bolts, connecting sections have been designed beforehand from raw materials in stock.



All components have been produced in factory and shipped to construction site to be erected by bolts. It can reduce total construction time by at least 2/3 in compared with concrete buildings.



ADVANTAGES OF PRE-ENGINEERED BUILDINGS



All steel members are manufactured in a factory with strict quality control. Then they are coated with high quality paint to increase the durability and lower maintenance cost.

CONSTRUCTION & INSTALLATION

1. INTRODUCTION TO CONSTRUCTION & INSTALLATION SERVICE

To ensure total construction quality, after designing and processing the steel components in the factory, QH Plus takes the initiative in getting contractor in construction and installation.

Professional site engineer team specializes in steel buildings: QH Plus has many years of practical construction experience with excellent site supervisor team and well trained workers specialize in steel structures. We are proud to be the contractor of steel core system and crown spire at over 400m in height for The Landmark 81 building project - the most prominent construction in 2017.

Capacity to supply & manage erection equipment: QH Plus owns & manages specialized equipment, machinery, vehicles for transportation & installation on site. All machinery and equipment must be inspected and tested prior to commissioning on site.

Highly-effective project management: QH Plus has its own Steel Buildings division consists of professional engineers who manage the project through the stages of Design, Production, Installation to Warranty Service. With the specialized software such as Tekla, MS. Project, Social Intranet Network,...Project Management Department (PMD) works closely with customers and Construction Management Department (CMD) to control the quality, progress and cost of the whole project.



With the capabilities and experiences of steel buildings construction over the past 11 years, QH Plus commits to every investor and contractor using our services:



Ensure continuous progress of construction works: with the available erection equipment and highly skilled professional site engineering team, help reducing the construction time and contribute to the early use of the project.



High quality standards: strict adherence to international construction standards helps to optimize the process of construction & ensure the highest quality products.

3 Professional & safety installation services: the Quality Control is carried throughout various stages of erection process, include: quality test of each finished components and technical supervision all erection tools and equipment for each worker in accordance with safety and quality standards.

4 Maintenance services: After finishing the project, QH Plus continues to provide after-sales services in terms of design and materials, giving customers the peace of mind on quality assurance.



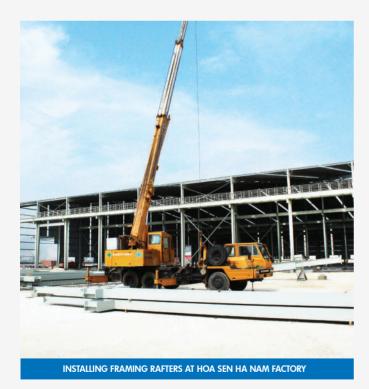
2. TYPICAL CONSTRUCTION WORKS

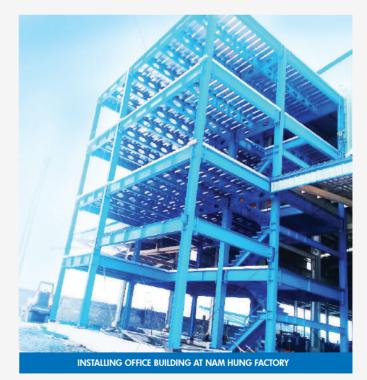


INSTALLING STEEL BUILDING FRAME AT HOA SEN HA NAM FACTORY



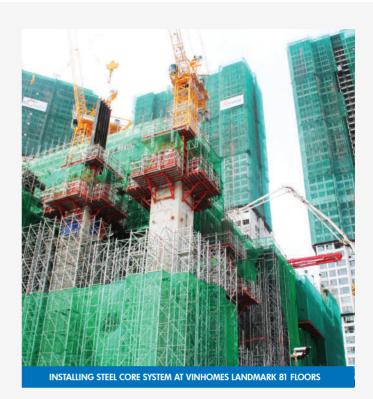
INSTALLING STEEL BUILDING FRAME AT NAM HUNG FACTORY





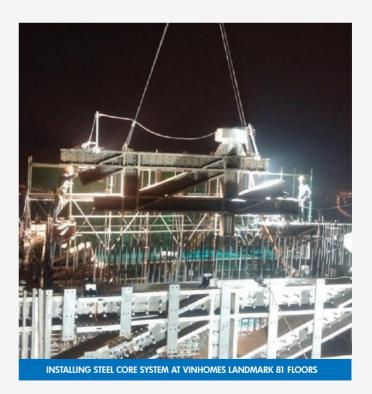


INSTALLING STEEL CORE SYSTEM AT VINHOMES LANDMARK 81 FLOORS





INSTALLING STEEL CORE SYSTEM AT VINHOMES LANDMARK 81 FLOORS



2. TYPICAL CONSTRUCTION WORKS



INSTALLING KINGPOST AT THE PARK AVENUE CONSTRUCTION



INSTALLING KINGPOST AT ETOWN CENTRAL CONSTRUCTION





INSTALLING PRE-ENGINEERED BUILDING AT BA SON SHIP YARD

PRE-ENGINEERED BUILDINGS INSTALLATION SERVICE FAST ERECTION SAFETY ASSURANCE

MAPLETREE LOGISTICS CENTER PROJECT Architectural designed by MAPLETREE LOGISTICS VIETNAM CO., LTD Fabricated & erected by QH PLUS CORPORATION

STEEL STRUCTURES

1. STEEL STRUCTURES INTRODUCTION

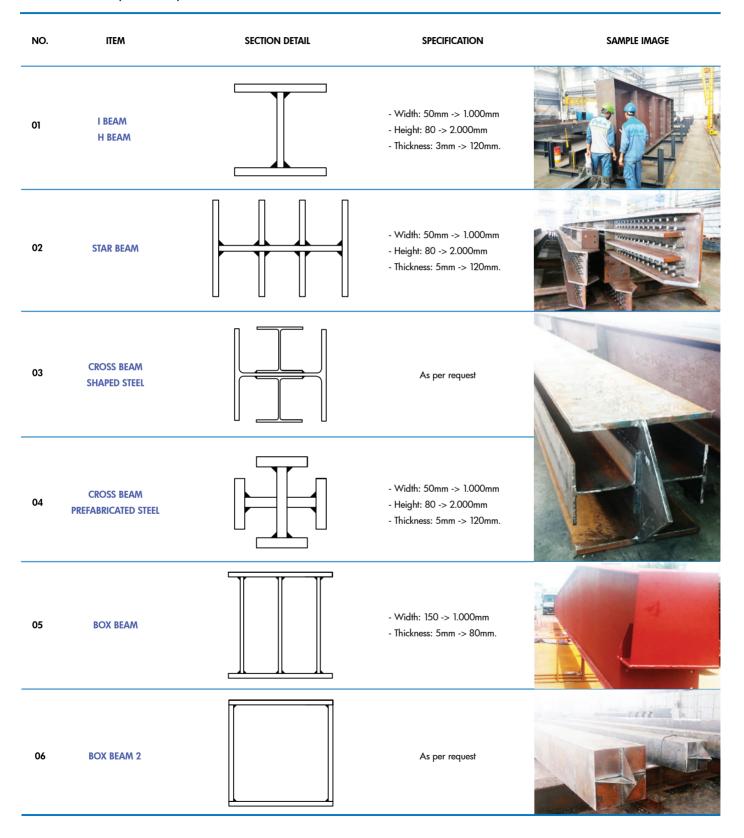
Steel structure is a metal structure which is made of structural steel components connect with each other to carry loads and provide full rigidity.

Steel structures are widely used in building industry, especially in large-scale constuction due to its advantages.



2. TYPICAL CROSS SECTIONS OF STEEL MEMBERS

With state-of-the-art manufacturing lines and qualified workers, QH Plus can process and fabricate various types of structural sections, from simple to complex to meet the diverse needs of customers.



Note: For special requirement, please contact QH Plus to be recommended the best solution.

3. APPLICATIONS OF STEEL STRUCTURES

With many useful and flexible features, steel structures are widely used in many types of buildings and construction works, such as:

INDUSTRIAL & CIVIL BUILDINGS

The processing and erection of industrial & civil buildings by steel structures has many advantages such as speeding up the progress, high durability and meeting all the project's functions.

LARGE CLEAR SPAN CONSTRUCTIONS

Steel structures are also applied in projects which need large area and use space such as commercial centers, stadium roofs, airport terminals... to ensure aesthetic and technical requirements of those construction.

PIPE RACK SYSTEM

For this type of construction, the processing assembled modules by steel structures will be more flexible according to investor's purpose such as: pipe rack, pipe bridge...

TRANSPORTATION CONSTRUCTION

In terms of fabrication, structural steel is easy to be processed such as cutting, punching, welding, beveling,...This helps the construction can meet architectural requirements as well as load bearing capacity, such as: bridges, roads, toll stations, advertising billboards,...

AUXILIARY WORKS

Besides, steel structures are widely used for many auxiliary structures such as piles, kingpost, bracing system,...

SUPER HIGH-RISE BUILDINGS

With Multidirectional wind loads acting on super-high-rise buildings, it is necessary to have the building core system made of complex steel structures such as transfer beams, steel core, STEEL LINTELs,...

And many other applications of steel structures such as power poles, broadcasting towers, drilling rig system,...



4. QH PLUS'S ADVANTAGES IN STEEL STRUCTURE PROCESSING SERVICES







PROFESSIONAL AND EXPERIENCED ENGINEER TEAM

QH Plus has more than 300 steel buildings staffs including specialized engineers, qualified workers, site supervisors with many years of experience in steel structures. In addition, our experts provide comprehensive recommendation and budgeting for all related activities of the project including design, production, transportation and installation.

ON SITE SUPPORTING SERVICES

We always follow to support customers from the time the contract is signed until the end of the project; including:

- Guiding how to open and unsealed products in the right order
- Supporting material inspection
- Guiding the contractor how to store materials
- Safety advice and technical assistance during the erection

- Receiving all requests, feedback from customers and timely propose effective solutions

QUICK AND FLEXIBLE DELIVERY

The delivery process is carried out by QH Plus's tranportation & logistics team. Therefore, the delivery time is faster and meet the construction timeline. QH Plus has 14 tractor trailers (cart load: 31.6 tons, 25.6 tons) and 02 crane trucks (12.9 tons) with experienced drivers who are well-trained in the skills of loading and unloading in the right manner for each type of goods; Therefore, the product quality is guaranteed and not affected by external factors.



4. QH PLUS'S ADVANTAGES IN STEEL STRUCTURE PROCESSING SERVICES







SYSTEMATIC PROJECT MANAGEMENT WITH SPECIALIZED SOFTWARE

We carry out the design and management project on licensed software such as: - TEKLA STRUCTURE - Shop drawings

- STAAD PRO Steel plate, shaped steel structural analysis & design
- CFS Cold rolled steel design
- AUTOCAD LT 2016 Technical drawings
- SAP, ERP Project management system

MODERN PRODUCTION LINES WITH STATE-OF-THE-ART TECHNOLOGY

QH Plus's modern machine lines are imported with newest technology from Italy USA, Japan,...for complete steel fabrication from the foundation to roofing structures: - Foundation systems: Production line of anchor bolts, cutting, punching, milling steel sections line,...

- Framing systems: Rigid rafters, columns fabrication lines,....
- Roofing system: Purlins & sections production line,....

SEAMLESS QUALITY ASSURANCE AND CONTROL

The whole production process is delivered according to the latest quality management standards:

- ISO 9001:2015: Quality control system certificate
- ISO 14001:2015: Environmental control system certificate
 - ISO 3834: Comprehensive quality requirements

In addition, all procedures are closely inspected by operator & Quality Control engineer with specialized equipment to ensure product quality before delivery.





ENGINEERING & DESIGN

- ENGINEERING & DESIGN WORKFLOW
- ENGINEERING & DESIGN SOFTWARE
- ENGINEERING & DESIGN CODES

1. ENGINEERING & DESIGN WORKFLOW



2. ENGINEERING & DESIGN SOFTWARE

To commit increasing demands of today complex construction and to computerize the producing process of pre-engineered buildings and steel structures, QH Plus has invested in many professional & up-to-date technical software that covers all stages of design, from concept to completion drawings.

All of our engineers are trained to lastest Design Codes in calculating & detailing to bring out the most error free design from approval drawings to the shop drawings that needs minimum revision or modification.

ENGINEERING & DESIGN SOFTWARE



- TEKLA STRUCTURE Shop drawings software
- 2 TEKLA 21 Tekla Structure version
- STAAD PRO Structural analysis & design (Steel plate, shaped steel)
- OFS Cold rolled steel design
- 6 AUTOCAD LT 2016 Architectural design software

3. ENGINEERING & DESIGN CODES

QH Plus follows international accepted codes of practice in the analysis, design and fabrication all of our steel buildings, including:



AISC – AMERICAN INSTITUTE OF STEEL CONSTRUCTION

Manual of Steel Construction Allowable Stress Design (ASD)



AWS - AMERICAN WELDING SOCIETY

Structural Welding Code-Steel Manual



American Iron and Steel Institute

AISI – AMERICAN IRON & STEEL INSTITUTE

Cold Formed Steel Design Manual



MBMA – METAL BUILDINGS MANUFACTURERS ASSOCIATION

Authoritative guide for the design and manufacture of pre-engineered steel buildings



ASCE – AMERICAN SOCIETY OF CIVIL ENGINEERS

Minimum Design Loads for Buildings and Other Structures





MATERIALS

- PRE-ENGINEERING BUILDINGS MATERIALS
- STEEL STRUCTURE MATERIALS

1. PRE-ENGINEERED BUILDING MATERIALS

NO.		MATE	RIAL	STEEL GRADE/ MATERIAL SPECIFICATIONS	YIELD STRENGTH	TENSILE STRENGTI	
				SS400, Q235, ASTM A36, S235	Fy = 23.5 kN/cm ²	Fu = 40.0 kN/cm	
1	Built-up me	embers (Steel plat	es)	Q345, ASTM A572 Gr.50, SM490/ SS490, S355	Fy = 34.5 kN/cm ²	Fu = 45.0 kN/cm	
				S460	$Fy = 46.0 \text{ kN/cm}^2$	Fu = 54.0 kN/cm	
2	Shaped ste	eel (Hot-rolled me	mbers)	SS400 (JIS), ASTM A-36 (or equivalent)	Fy = 23.5 kN/cm ²	Fu = 40.0 kN/cm	
3	Cold rolled	l members		JIS G3112, ASTM G340/G450	$Fy = 34.0 \text{ kN/cm}^2$	Fu = 45.0 kN/cm	
4	Roof pane	l		G300 - G550	Fy = 30.0 kN/cm ²	Fu = 55.0 kN/cm	
5	Х	Round bar/Angle steel/Steel pipe X		SS400 (JIS), ASTM A-36 (or equivalent)	Fy = 23.5 kN/cm ²	$Fu = 40 \text{ kN/cm}^2$	
6	bracing Bracing cable (I I		lf any)	EN, GB, JIS (or equivalent)	-	$Fu = 147 \text{ kN/cm}^2$	
7	Anchor bo	lts		Grade 4.6, SS400 (JIS), ASTM A-36 (or equivalent)	Fy = 23.5 kN/cm ²	$Fu = 40 \text{ kN/cm}^2$	
8	High streng	gth bolts (for prim	ary structure)	A325, DIN grade 8.8 (or equivalent)	-	Fu = 72 - 83 kN/ cm²	
9	Bolts (for s	econdary structure	9)	A307, DIN grade 4.8 (or equivalent)	-	$Fu = 40 \text{ kN/cm}^2$	
10		Use for welding steel	Shielded Metal Arc	AWS A5.1 E6013	$Fy = 33.0 \text{ kN/cm}^2$	Fu = 43.0 kN/cm	
11	Welding	Welding rod/	with yield strength of 23.5 kN/cm ²	Welding (SMAW)	AWS A5.1 E7018	Fy = 40.0 kN/cm ²	Fu = 48.3 kN/cm
12	Welding wire	Use for welding steel	Flux Cored Arc Welding (FCAW)	AWS A5.20 E71T-1C	Fy = 40.0 kN/cm ²	Fu = 49.0 kN/cm	
13		with yield strength of Submerged Arc Welding 34.5 kN/cm ² (SAW)		AWS A5.17 EM12K	$Fy = 40.0 \text{ kN/cm}^2$	Fu = 51.0 kN/cm ²	
Ν	loted:	AWS: America	ngth an Society for Testing and Mat n Welding Society ndustrial Standards	terials			

GB: Chinese Standards

2. STEEL STRUCTURE MATERIALS

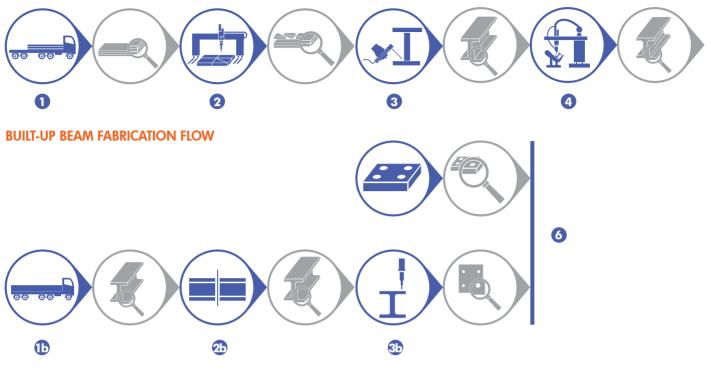
The material which used for manufacturing steel structures are hot-rolled steels & shaped steels imported from many reliable suppliers to meet the technical & quality requirements.



QUALITY MANAGEMENT SYSTEM

- FABRICATION & INSPECTION FLOW
- QUALITY INSPECTION & CONTROL SYSTEM
- QUALITY CONTROL EQUIPMENT

1. FABRICATION & INSPECTION FLOW



SHAPED STEEL FABRICATION FLOW



- Importing raw material Steel plate
- 1 Importing raw material Shaped steel
- Material inspection



- 2 Cutting Steel plate
- 2 Cutting Shaped steel
- 2 Inspection





3 Fitting up

Processing steel plate Drilling - Shaped steel

- 3 Inspection
- 4 Auto welding
- 4 Inspection



- Straightening
- Inspection



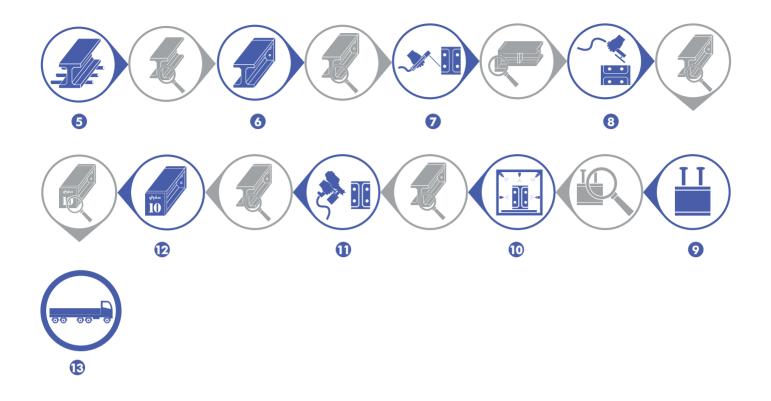
6 Assembling6 Inspection



Completed weldingInspection

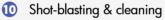


8 Surface milling8 Inspection





- Welding shear stud
- Inspection



- Inspection



- 1 Painting
- 1 Inspection



B Shipping

QH Plus follows a stringent quality control program at each stage in its manufacturing process.

All procedures are inspected by operators & QC engineers in accordance with ISO 9001:2015 Quality Management Standard & ISO 3834-2:2006 Comprehensive Quality Requirements



- Packing & marking
- Inspection

2. QUALITY INSPECTION & CONTROL SYSTEM

		APPLICABLE	TEST SCOPE	RECORD &	ACTIVITIES			
NO.	STAGE OF INSPECTION	SPECIFICATIONS /PROCEDURES		REPORT FORMS	QHPI	CONSULTANT	OWNER	REMARKS
I	WPS/PQR/WQTR/NDT PROCEDURE	AWS D1.1:2015 or equivalent codes						
01	Welding Procedure Specification	AWS D1.1:2015	100%	WPS/PQR	v	R	R	
02	Welder/Operators Qualification List, Records & Certificates	AWS D1.1:2015	100%	WQTR/Certificates	v	R	R	
03	NDT Procedures/ NDT Technician Certificates	AWS D1.1:2015	100%	Procedures/Certificates	R	R	R	
II	PROJECT KICK-UP MEETING (Before starting of the job)		One time	МОМ	А	A	А	
III	RAW MATERIAL VERIFICATION & INSPECTION	ASTM/JIS/EN or Equivalent standards						
01	Steel Plates and Steel: • Visual Inspection • Dimension Inspection • Mill Test Certificates review	Material Specification Tolerance check by JIS G3192, G3193	10% Min. 10% Min. 100%	F-QHPI-KCT-01.01/02	I&R	M/R	R	
02	Welding consumable follow AWS D1.1:2015 • Visual Inspection • Mill Test Certificates review	Welding Consum- able Specification	25% Min. 100%	F-QHPI-KCT-01.03	I&R	R	R	
03	Paint • Visual Inspection • Mill Test Certificates review	Painting Material Specification	25% Min. 100%	МТС	V&R	R	R	
04	Fastener ASTM A307 Grade C, A325/325-F: • Visual Inspection • Mill Test Certificates review	Material Specifi- cation	10% Min. 100%	F-QHPI-KCT-01./02.01	I&R	R	R	
05	Cutting sample test	Material Specifi- cation	Sample Test Specification	Testing result	w	R	R	
IV	CUTTING INSPECTION	Shop Drawing						
01	Visual Inspection	Shop Drawing/ MBMA:2010	10% Min.	F-QHPI-KCT-01.05		M/R	R	
02	Dimension Inspection	Shop Drawing/ MBMA:2010	10% Min.				N.	
v	AUTOMATIC WELDING BEAM	AWS D1.1:2015	1	1	1			I
01	Visual Inspection	Shop Drawing/ AWS D1.1:2015	25% Min.	F-QHPI-KCT-01.05	I	M/R	R	

NO.		APPLICABLE		RECORD &	ACTIVITIES			
	STAGE OF INSPECTION	SPECIFICATIONS TI /PROCEDURES	TEST SCOPE	REPORT FORMS	QHPI	CONSULTANT	OWNER	REMARKS
02	Dimension Inspection	Shop Drawing/ AWS D1.1:2015	10% Min.	F-QHPI-KCT-01.05	I	M/R	R	
VI	FIT-UP INSPECTION	Shop Drawing/ MBMA:2010/ AWS D1.1:2015						
01	Visual Inspection	Shop Drawing/ MBMA:2010	10% Min.					
02	Dimension Inspection of Main Frames	Shop Drawing/ MBMA:2010	25% Min.	F-QHPI-KCT-01.06		M/R	R	
03	Dimension Inspection of Secondary Members	Shop Drawing/ MBMA:2010	10% Min.				, K	
04	Checking Weld joint preparation before full welding	Shop Drawing/ AWS D1.1:2015	15% Min.					
VII	FINAL INSPECTION	Shop Drawing/ MBMA:2010/ AWS D1.1:2015						
01	Visual Welding Inspection	Shop Drawing/ AWS D1.1:2015	25% Min.					
02	Size Weld Inspection	Shop Drawing/ AWS D1.1:2015	10% Min.	F-QHPI-KCT-01.07	I	M/R	R	
03	Visual & Dimension Inspection	Shop Drawing/ MBMA:2010/ AWS D1.1:2015	50% Min.	Factory inspection report (FIR) QHPI-FIR-No. (External form)	н	I/W/R	M/R	
VII	NON-DESTRUCTIVE TESTING	AWS D1.1:2015/ NDT Procedures						
01	Magnetic Particle Inspec- tion (MPI)	AWS D1.1:2015/ NDT Procedures	10% Min.	Factory inspection report (FIR) QHPI-FIR-No.	 *	W/R	R	I* Third
02	Ultrasonic Testing (UT) Butt Welds (Flange/ Web splice joints/ Critical joints)	AWS D1.1:2015/ NDT Procedures	15% Min.	(External form) NDT Third Party Reports form	*	W/R	R	Party conduct the NDT testing
VIII	SURFACE PREPARATION & PAINTING INSPECTION	ISO 8501-1 (2007) & SSPC-PA 2 (2012)	1]			<u> </u>	
01	Surface Cleaning	ISO 8501-1 (2007)/ Job Specification	20% Min.	F-QHPI-KCT-01.09	I	M/R	R	
02	Paint DFT For Primer Coating/ Intermediate coat/ Final coating	SSPC-PA 2 (2012)/ Job Specification	20% Min.	F-QHPI-KCT-01.09	I	M/R	R	
03	Visual Inspection of Coatings	SSPC-PA 2 (2012)/ Job Specification	50% Min.	F-QHPI-KCT-01.09	I	M/R	R	
04	Touch-up (Repair)	SSPC-PA 2 (2012)/ Job Specification	10% Min.	NCR Form: QH- PI-QTKSSPKPH-01	w	M/R	R	
іх	GALVANIZING	ASTM A123/A385/ Job Specification	1	1	I		ı	

2. QUALITY INSPECTION & CONTROL SYSTEM

		APPLICABLE			ACTIVITIES			
NO.	STAGE OF INSPECTION	SPECIFICATIONS /PROCEDURES	TEST SCOPE	RECORD & REPORT FORMS	QHPI	CONSULTANT	OWNER	REMARKS
01	Surface Preparation	ASTM A385/ Job Specification	10% Min.	F-QHPI-KCT-01.09 (just use the surface treatment only)	I	R	R	
02	Visual Inspection of Zinc Coating	ASTM A123/ Job Specification	50% Min.					
03	Zinc Coating Thickness	ASTM A123/ Job Specification	20% Min.	Galvanizer Report	M/R	R	R	
04	Repair Galvanizing/ Touch up	ASTM A123/ Job Specification	10% Min.					
Х	PACKAGING & SHIPPING	Job Specification						
01	Shipment Package Inspection	Job Specification	10% Min.	F-QHPI-KCT-01.11		M/R	R	
02	Packing Inspection (Truck Load)	Job Specification	10% Min.	r-Qmri-KCI-VI.II		My K	ĸ	
XI	HAND OVER MANUFACTURING DATA RECORS - MDR	As per the MDR Index sheet enclosed with	All documents as per approved ITP	Manufacturer's Data Reports (MDR) 1 set hard/soft copy	S	R	R	

ABBREVIATIONS

AWS	AMERICAN WELDING SOCIETY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
DFT	DRY FILM THICKNESS
EN	EUROPEAN STANDARD
FIR	FACTORY INSPECTION REPORT
JIS	JAPANESE INDUSTRIAL STANDARD
ISO 8501-1	CORROSION PROTECTION OF STEEL STRUCTURES BY PAINTING
MTC	MILL TEST CERTIFICATE
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
NCR	NON-CONFORMANCE REPORT (FORM: QHPI-QTKSSPKPH-01)
PQR	PROCEDURE QUALITY RECORD
SSPC-PA 2	STEEL STRUCTURES PAINTING COUNCIL-COATING APPLICATION STANDARD NO.2
WQTR	WELDER/ WELDING OPERATOR QUALIFICATION TESTING RECORD
WPS	WELDING PROCEDURE SPECIFICATION
Н	HOLD POINT
I	INSPECTION POINT
W	WITNESS
V	VERIFY
Α	ATTEND
Μ	MONITORING
R	PREVIEW

3. QUALITY CONTROL EQUIPMENT

NO.	EQUIPMENT	FUNCTION	SAMPLE PICTURE
1	METAL TAPE MEASURES	Checking dimension of materials & finished products	
2	SET SQUARE RULERS	Measuring the squareness of materials & finished products	
3	STAINLESS STEEL RULERS	Checking dimension of materials & finished products	1 2 3 4 \$ 4 7 4 9 10 + 2 1 4 \$ 4 7 4 9 20 + 2 3 4 \$ 4 7 4 9 20 + 2 3 4 \$ 4 7 4 9 20 + 2 3 4 \$ 4 5 4 7 4 9 30
4	CALLIPERS	Checking the thickness & diameter of materials & finished products	
5	MITRE SAW PROTRACTORS	Measuring angles of finished products	
6	WELDING GAUGES	Measuring fillet weld size	
7	COATING THICKNESS GAUGES	Measuring of dry-film coating thickness	
8	WET-FILM THICKNESS GAUGES	Measuring of wet-film coating thickness	Parameter 12 Annual State
9	ULTRASONIC TESTING MACHINE	Ultrasonic testing of fillet welds	
10	MAGNETIC TESTING MACHINE	Checking defects on welded joints	
11	HAMMER	Checking the quality of welded joints, shear stud,	A manual second





PRODUCTION EQUIPMENT

- PROCESSING STEEL PLATES & V ANGLES
- ASSEMBLING & COMPLETED WELDING
- PROCESSING ROLLED & BUILT UP BEAMS
- **CLEANING & PAINTING**
- COLD FORMING & BENDING

1. PROCESSING STEEL PLATES & V ANGLES

CATEGORY	SPECIFICATION			
Thickness (mm)	2 – 150			
Width (mm)	500 – 4,000			
Length (mm)	500 – 30,000			
Cutting	All shapes			
Drilling (mm)	Max 40			
Beveling (°)	15 – 75			
Taping (mm)	Max 40			
Punching (mm)	Max 30 \approx Max thick 20			
Milling	As requested			
Lathing (mm)	(L: max 3,000; D: max 400)			

In steel plates & V angles processing area, the machinery lines are used to handle the cutting, drilling, punching, taping, lathing, milling, beveling,...from raw materials to different steel shapes and specifications.



1.7 CNC V-ANGLE PUNCHING & SHEARING MACHINE

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1.9 HYDRAULIC PLATE SHEARING LINE

2. ASSEMBLING & COMPLETED WELDING

Assembled steel sections are transferred to automatic welding stage with a combination chain of fitting-up, vertical and horizontal welding line. This process creates finished steel members of pre-engineered buildings such as: box beam, cross beam, rafters, columns,...



IV. PRODUCTION EQUIPMENT

3. PROCESSING ROLLED & BUILT UP BEAMS

After being assembled, steel sections are put into 3D cutting, drilling, milling, beveling,...according to the required size by specialized machines using cold forming technology. This method ensures not to destroy the physical structure of steel.

CATEGORY	SPECIFICATION			
Thickness (mm)	4 – 107			
Width (mm)	50 – 1,200			
Height (mm)	50 – 700			
Length (mm)	Max 15,000			
Drilling (mm)	Max dia. 40			
Beveling (°)	15° – 75° for H,I beams			
Cutting	As requested by 3D or band saw			
Milling	Head of beams			



3.3 CNC MILLING FOR HEAD BEAMS



4. CLEANING & PAINTING

Finished welding sections are cleaned by shot-blasting line with specified standards. The high-pressure shot-blasting system ensures that components are removed from dirt and create roughness before being painted.

CATEGORY	SPECIFICATION
Height (mm)	Max 4,500
Width (mm)	Мах 5,000
Length (mm)	Max 24,000
Shot blasting	By steel balls
Painting	By spray



IV. PRODUCTION EQUIPMENT

5. COLD FORMING & BENDING

All of the machines in the cold forming & bending area are equipped with advanced technology used for processing cladding systems, such as: roofing, walling, trims, gutters, drain pipes, ... Then, finished products are carefully packed and preserved for delivery to customers or to the construction site.





5.7 SEAMLOCK COLD FORMING MACHINE



5.9 GUTTER COLD FORMING MACHINE





5.8 AUTO CRIMPING CURVED MACHINE



5.10 RAINSPOUT ROLL FORMING MACHINE



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DELIVERY SERVICE

DELIVERY SERVICE

In order to meet the project progress, QH Plus has invested in various kinds of transportation vehicles with heavy load and diverse functions to deliver our products to construction site:

- 02 tractor trailers: 31,6 tons
- 10 tractor trailers: 25,6 tons
- 02 crane trucks : 12,9 tons

With professional transportation system managed directly by QH Plus, we always maintain a stable transportation cost for our customers. Our delivery/forwarding team has a lot of experience as well as trained on loading technique for each kind of product. Therefore, we ensure absolute quality and safety for the goods during delivery process.





FEATURE BUSSINESS PARTNERS

With more than 11 years of experience in steel buildings industry, QH Plus has expanded a profound strategic network of partners and customers in the country and foreign market.









SIGHTSEEING TOWER PROJECT

Located at Vinhomes Central Park Complex Center Architectural designed by Vingroup Fabricated & Installed by QH Plus corporation

PROJECTS & CONSTRUCTIONS



NO.	CUSTOMER	PROJECT NAME	SCALE	PRODUCT & SERVICE	ADDRESS
1	Intimex Nha Trang JSC.	intimex gia lai Factory	6,200 m²	Design, process and install pre-engineered building	Hai Thuong Lan Ong St., Yen The Ward, Pleiku City, Gia Lai Province
2	Intimex Bao Loc JSC	INTIMEX BAO LOC - COFFEE FACTORY	21,900 m²	Design, process and install pre-engineered building	Loc Son Industrial Zone, Bao Loc City, Lam Dong Province
3	Vingroup	VINMEC HOSPITAL	400,000 m²	Q-coupler, kingpost, Q Welded mesh, process & install elevator beam & fence	208 Nguyen Huu Canh St., Ward 22, Binh Thanh Dist., HCMC
4	Vingroup	VINHOMES LANDMARK 81 TOWER	2,500 m² 81 floors	Steel core system, Q-Coupler, thread rolling, H beam	208 Nguyen Huu Canh St., Ward 22, Binh Thanh Dist., HCMC
5	Shimizu-Maeda Joint Operation	HO CHI MINH CITY METRO SYSTEM (BEN THANH - SUOI TIEN)	19,700 m	Round tube, pipe coupler, pipe cap, Q welded mesh, SYT insert, PTD insert, Kingpost	Saigon Opera House Station & Ba Son Station, HCMC
6	Coteccons Construction JSC Unicons Construction JSC	The Gold View Apart- Ment	260,000 m²	Kingpost, SYT insert	346 Van Don St., Ward 1, Dist. 4, HCMC
7	Vingroup General Vincom Construction Management LLC	VINCOM SHOPPING MALL - CAN THO	18,000 m²	Kingpost, Threaded rod	209, St. 30/4, Xuan Khanh Ward, Ninh Kieu Dist., Can Tho City
8	Coteccons Construction JSC	THE ONE SAI GON COMPLEX	24,000 m²	Kingpost	Pham Ngu Lao St., Nguyen Thai Binh Ward, Dist. 1, HCMC
9	Novaland Group Duc Lap Service Trading Co., Ltd	THE PRINCE RESIDENCE APARTMENT	4,647 m²	Steel fabrication, providing steel beam and column, steel fabrication for roof-top	19-21 Nguyen Van Troi St., Ward 12, Phu Nhuan Dist., HCMC
10	Novaland Group	SUNRISE CITY VIEW APARTMENT	15,152 m²	Kingpost	45 Nguyen Huu Tho St., Tan Hung Ward, Dist. 7, HCMC
11	Vingroup JSC	VINCOM SHOPPING MALL - BIEN HOA	25,054 m²	Steel frame, steel fabrication, painting roof-top	Pham Van Thuan St., Tan Mai Ward, Bien Hoa City
12	Vingroup JSC	VINHOMES CENTRAL PARK	400,000 m²	Kingpost, Q-Coupler, thread rolling service, install car park, balcony, galvanized rectangular steel tube, shape steel, gate of model houses	208 Nguyen Huu Canh St., Ward 22, Binh Thanh Dist., HCMC
13	Hoa Binh House Corporation	E-TOWN CENTRAL HIGHRISE BUILDING	66,000m²	Kingpost, Q Welded mesh, Q-Coupler, thread rolling service	11 Doan Van Bo St., Dist. 4, HCMC
14	HCMC Investment Service Trading JSC	BA SON FACTORY TRANSITION ZONE	24,000 m²	Design, process and install pre-engineered building & supplemental construction	Cai Mep Town, Tan Thanh Dist., Ba Ria - Vung Tau Province
15	Nhat Nguyen An Co., Ltd Binh Dinh Construction Co.,Ltd	SOUTHERN SAI GON HOSPITAL	18,000 m²	Kingpost	No. 8 St., Trung Son, Dist.8, HCMC

NO.	CUSTOMER	PROJECT NAME	SCALE	PRODUCT & SERVICE	ADDRESS
17	Vingroup	VINHOMES GOLDEN RIVER APARTMENT	250.000m ²	Kingpost, Q-coupler & thread rolling service	02 Ton Duc Thang St., Ben Nghe Ward, Dist.1, HCMC
20	Novaland Group	THE PARK AVENUE APARTMENT	9,000 m²	Kingpost, coupler, thread rolling service	Ba Thang Hai St, Ward 15, Dist. 11, HCMC
21	Coteccons Construction JSC	THE EVERRICH 8 COM- PLEX CENTER	113,557 m²	Kingpost, Q Welded mesh	132 Ben Van Don, Ward 6, District 4, HCMC
22	COFICO Construction JSC	BOTANICA PREMIER COMPLEX CENTRE	17,777 m²	Kingpost	108 Hong Ha St., Ward 2, Tan Binh Dist., HCMC
23	Vingroup	YATCH STATION PROJECT	1,100 m²	Process & install steel structures, aluminium glass	208 Nguyen Huu Canh St., Ward 22, Binh Thanh Dist., HCMC
24	Vingroup	BRIDGE FOR WALKING - VINHOMES CENTRAL PARK	754 m²	Process & install steel structures	208 Nguyen Huu Canh St., Ward 22, Binh Thanh Dist., HCMC
25	Novaland Group	SAIGON ROYAL RESIDENCE LUXURY APARTMENT	6,669 m²	Kingpost	34-35 Ben Van Don - Ward 12, Dist.4, HCMC
26	Vingroup	VINHOMES SKY LAKE APARTMENT	13,555 m²	Kingpost	E13, Cau Giay New Urbanism, Pham Hung St., Tu Lien, Ha Noi
27	Capital Land Holding Pte.Ltd	Feliz en vista luxury Apartment	20,000 m²	Process & install steel structures	Dong Van Cong St., Thanh My Loi Ward, Dist.2, HCMC
28	Steel Builder Corporation	Steel Builder Factory	13,000 m²	Design, process & install pre-engineered building	Phu My 2 Industrial Zone - Ba Ria Vung Tau Province
29	Vingroup JSC Vincom Construction Manage- ment LLC	VINCOM TAY NINH BUILDING	22,000 m²	Design & install kingpost, steel structures	1 Town, Ward 3, Tay Ninh City, Tay Ninh Province
30	Buu Long JSC Bachy Soletanche Vietnam	HILTON HOTEL	2,200 m²	H beam	11 Cong truong Me Linh St., Dist.1, HCMC
31	Nam Hung Metal JSC	NAM HUNG FACTORY	23,040 m²	Design, process & install pre-engineered building	Thuan Dao Industrial Zone, Ben Luc Dist., Long An Province
32	Kim Nguon JSC	TAN THANH TRADE CENTER	15,000 m²	Steel building	Tan Thanh Dist., Ba Ria Vung Tau Province
33	Trung Thuy Lancaster Group Bachy Soletanche Viet Nam	LANCASTER LINCOLN APARTMENT	8,414 m²	Kingpost, structural steel, weld- ed mesh, U bolt, H beam	428-430 Nguyen Tat Thanh St., Ward 18, Dist.4, HCMC
34	Hoa Sen Ha Nam One-member Co., LTD	HOA SEN HA NAM FACTORY	25,080 m²	Design, process & install pre-engineered building	Kien Khe Industrial Zone, Kien Khe Town, Thanh Liem Dist., Ha Nam Province

NO.	CUSTOMER	PROJECT NAME	SCALE	PRODUCT & SERVICE	ADDRESS
35	Hoa Sen Phu My One-member Co., LTD	HOA SEN PHU MY FACTORY	19,200 m²	Design, process & install pre- engineered building	Phu My Industrial Zone, Phu My Town, Tan Thanh Dist., Ba Ria Vung Tau Province
36	Trung Thuy Lancaster Group Bachy Soletanche Viet Nam	LANCASTER NGUYEN TRAI TOWER	5,000 m ²	H beam, Welded mesh	230 Nguyen Trai St., Nguyen Cu Trinh Ward, Dist. 1, HCMC
37	Hoa Binh House Corporation	SAIGON PEARL APARTMENT	103,700 m ²	Kingpost	92 Nguyen Huu Canh, Ward 22, Binh Thanh District
38	Thanh Dat Infrastructure Development JSC	RENTING FACTORY OF THINH VUONG INTERNATIONAL INVESTMENT JSC	3,799 m²	Process & install pre-engineered buildings	Street No.1, Nhon Trach 1 Industrial Zone, Phuoc Thien Commune, Nhon Trach District, Dong Nai Province
39	Binh Dinh Construction Co., Ltd	VIRGO CONDOTEL NHA TRANG	1,490 m²	Kingpost	39-41 Nguyen Thi Minh Khai, Loc Tho, Nha Trang City, Khanh Hoa Province
40	Vinaconex Corporation	MAPLETREE LOGISTICS CENTER	61,600 m²	Design, process & install pre- engineered building, welded mesh	18 L2-3, 5 Tao Luc St., VSIP II Industrial Zone, Binh Duong Province
41	Pomina steel corporation	Pomina 2 flat steel Factory	26,500 m ²	Providing and installing pre- engineered building	Phu My Industrial Zone, Ba Ria Vung Tau Province
42	Hoa Sen Nhon Hoi Binh Dinh One-member Co., Ltd	HOA SEN NHON HOI - BINH DINH FACTORY - PHASE 2	24,000 m ²	Providing and installing pre- engineered building	Hoi Son Hamlet, Nhon Hoi Village, Quy Nhon City, Binh Dinh Province
43	Vingroup	NHA TRANG CONVENTION CENTER	7,300m ²	Steel structures	Hon Tre Island, Vinh Nguyen Dist., Nha Trang City, Khanh Hoa Province
44	LUAN Garment Co., Ltd.	luan garment factory	10,048 m ²	Steel structures & roof panels	Binh Hoa Industrial Zone, Chau Thanh Dist., An Giang Province
45	Verne Haus Co., Ltd.	MINI RESORT VILLA	3,960 m ²	Steel frame structures	Palawan Island, The Philippines
46	Alpha King Real Estate Development JSC. BAUER Vietnam Co., Ltd.	GOLDEN HILL (ALPHA 4) BUILDING COMPLEX	7,209 m ²	Design, fabricate & install shoring system, kingpost & building accessories	87 Cong Quynh St., Dist.1, HCMC
47	Hoa Binh Corporation	LIM TOWER 3 - COMMERCIAL AND OFFICE COMPLEX BUILDING	3,018 m²	Kingpost for basement system	29A Nguyen Dinh Chieu St., Da Kao Ward.,Dist.1., HCMC
48	Jin Guo Yuan Vietnam - Tropical fruit import export Co., Ltd	OFFICE BUILDINGS	980m ²	Provide & install steel structures	Lot 6-4, Phan Thiet Industrial Zone, Ham Liem, Ham Thuan Bac Dist., Binh Thuan Province
50	Vingroup FDC Investment Construction JSC.	VINFAST AUTOMOBILE PRODUCTION COMPLEX	3,350,000 m ²	Steel frame structures GL.7- 13/A-M	Cat Hai Island, Hai Phong City



1. VINHOMES LANDMARK 81 FLOORS









services







2. BA SON SHIP YARD









Pre-engineered building

Design & Engineering Processing & Fabrication Erection





3. BRIDGE FOR WALKING IN VINHOMES CENTRAL PARK COMPLEX CENTER







IX. PROJECTS & CONSTRUCTIONS

FEATURE PROJECTS & CONSTRUCTIONS



4. NAM HƯNG WAREHOUSE













Pre-engineered building

Welded mesh

Processing & fabrication Design & Engineering

Erection





5. TAN THANH TRADE CENTER









IX. PROJECTS & CONSTRUCTIONS

FEATURE PROJECTS & CONSTRUCTIONS



6. HOA SEN HA NAM FACTORY





Pre-engineered Design & building Engineering

Processing & g fabrication Erection





7. HOA SEN PHU MY FACTORY



Pre-engineered building Design & Engineering Processing & fabrication

Erection

<image>

IX. PROJECTS & CONSTRUCTIONS

FEATURE PROJECTS & CONSTRUCTIONS



8. MAPLETREE LOGISTICS CENTER

mapletree



Pre-engineered building

Processing & fabrication







9. HOA SEN NHON HOI BINH DINH FLAT STEEL FACTORY









Pre-engineered De building Eng

Design & Processing & Engineering fabrication

Erection





10. POMINA 2 FLAT STEEL FACTORY









fabrication





CERTIFICATES

CERTIFICATES

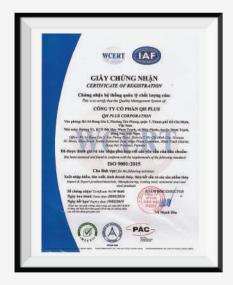
1. CERTIFICATES



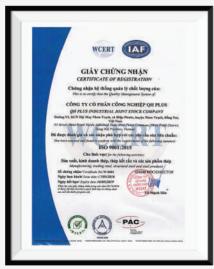
Comprehensive Quality Requirements



Typical Welder's Certificate



Quality Management System Certificate (QH Plus Corporation)



Quality Management System Certificate (QH Plus Industrial JSC.)



Environmental Management System Certificate (QH Plus Industrial JSC.)



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