

SINO WORLD

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From Raw Steel To Building
Your Full-Supply-Chain Manufacturing Partner

Contents

3-4 Workshop Views

5-9 Steel Structure

10-11 K House

12-13 T House

14-15 Light Steel Structure Villa

16-17 Quick Assembly Container House

18 Sandwich Panel

19 Quality Control&Package

20 SW BUILDING Service

21 Engineering Project Exhibition



Brief Introduction

Leveraging over 40 years of cold bending expertise, SW BUILDING SYSTEM has built a full-chain ecosystem covering equipment manufacturing, material processing, and temporary construction services.

As an industry standard- setter with two major bases in South China, our company is dedicated to becoming a trusted global provider of intelligent solutions for construction industrialization, bringing standardized facilities and smart equipment to the international market.

Production Capacity

Steel Structure: 6,000 T/year
Prefab House: 300,000 m2/year
Portable House: 6,000 units/year
Sandwich Panel:1,500,000 m2/year





Global Market

We will focus on deepening our presence in the domestic market while making every effort to expand into overseas markets in Southeast Asia, the Middle East,South Africa, and Europe and the United States, leveraging our local manufacturing capabilities to serve customers worldwide.

WORKSHOP



Sandwich panel workshop



Sandwich panel workshop



Steel structure workshop



Steel structure workshop



Fittings production workshop



Fittings production workshop



Steel finished products workshop



Finished sandwich panel storage workshop

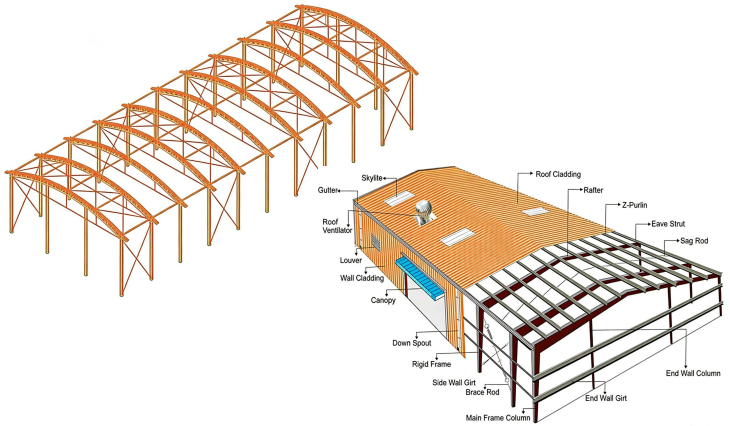
Our workshop fully supports the standardized production and assembly of integrated houses, with a production chain covering steel fabrication, panel forming, and core component assembly. We strictly control every process to ensure superior quality and efficient delivery.

All products are fully pre-fabricated in factory and packed in standard packages. Multiple loading options including truck and container shipping are available.
Our efficient logistics ensures safe transportation, supporting mass-volume orders for domestic and overseas projects for timely delivery.



STEEL STRUCTURE BUILDING





Component	Specification
Main frame	Hot-dip galavanized or painted steel"H" steel, "C" and "Z"cold-formedthin-walled section steel, Q235
Roof	50mm-150mmEPS/PU/Rockwool sandwich panel/color steel roof sheet/glazed roof tile
Wall	50mm-150mm EPS,PURock wool sandwich panel.
Door	Sandwich panel door, security door orelectric roller shutter door
Window	PVC sliding, aluminum alloy or shutter

Steel structure building is a new type of building structure system.

The main steel frame is formed by linking up H-Section,Z-Section and U-Section Steel components while roof and wall using a variety of panels.

Advantages:
1.Process a wide span, with either a single or multiple span and can have a maximum span clearance distancein 20m without middle columns.
2.Low Cost with unit price
3.Full bolt connection, fast assemble
4.Lifespan: 50 years
5.Structure stable, Earthquake resistance, waterproof, and energy saving

PROJECT OVERVIEW

STEEL STRUCTURE
Paint Production Base

Industry: Paint production base Place:Indonesia

Dimensions:92x58x12m Square Footage:5336sqm

Column/Beam:H steel Wall purlin:C purlin Roof purlin:C purlin

Brace structure:Tie rod,tube,angel steel. Roof panel:Prepainted galvanized corrugated steel sheet

Door:Steel roller door

Steel structure paint production base enclosure and roof system adopts the following professional structural solutions:

Roof Structure: A full steel structure system is employed, which meets the operational requirements of industrial buildings for long spans and high load-bearing capacity.

Wall Construction: A composite enclosure system combining concrete and steel structure is adopted balancing structural stability and enclosure durability.

Daylighting & Ventilation System: The side walls are equipped with a combination of aluminum alloy fixed windows and sliding windows, enabling a rational ratio of natural daylighting and ventilation.

Access & Emergency Systems: 4 industrial rolling shutter doors are installed to accommodate cargo access needs; the roof is equipped with electric smoke-discharge skylights, which serve both daily ventilation and emergency smoke evacuation functions, complying with fire safety codes for industrial buildings.







PROJECT OVERVIEW

STEEL STRUCTURE WAREHOUSE

Steel structure warehouses features of high fire resistance,strong corrosion resistance.Steel structure warehouses is mainly refers to the main bearing component is composed of steel.Including the steel columns,steel beam,steel structure,steel roof truss.Each component using welds,bolts or rivets to connect.



Industry: Store goods Place:Philippines

Dimensions:92'x160'x20' Square Footage:14,720 ft2

Column/Beam:H steel Wall purlin:C purlin Roof purlin:C purlin

Brace structure:Tie rod,tube,angel steel. Wall panel:Prepainted galvanized corrugated steel sheet

Roof panel:Prepainted galvanized corrugated steel sheet Door:Steel roller door





PROJECT OVERVIEW

STEEL STRUCTURE SMART MOTOR PRODUCTION BASE

Steel structure smart motor production base features of high fire resistance, strong corrosion resistance.

Steel structure is mainly refers to the main bearing component is composed of steel.

Including the steel columns,steel beam,steel structure,steel roof truss.

Each component using welds,bolts or rivets to connect.



Industry: Smart motor production base Place:USA

Dimensions:98x63x13.2m Square Footage:6,174sqm

Column/Beam:H steel Wall purlin:C purlin Roof purlin:C purlin

Brace structure:Tie rod,tube,angel steel. Wall panel:Prepainted galvanized corrugated steel sheet

Roof panel:Prepainted galvanized corrugated steel sheet Door:Steel roller door





7000m² workshop





1000m² warehouse



4000m² workshop



3000m² workshop



25000m² workshop

K HOUSE





K Type Modular House:

With the steel structure and sandwich panel structural composition,K-house always stand as a substantial building and widely use for construction site office and canteen,disaster victims camp...

Application:

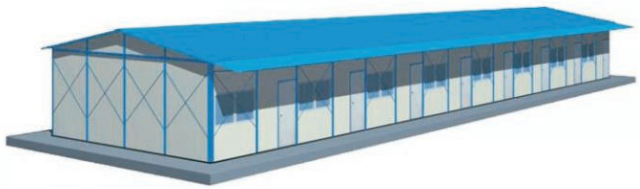
1.Worker camp

2.Temporary office

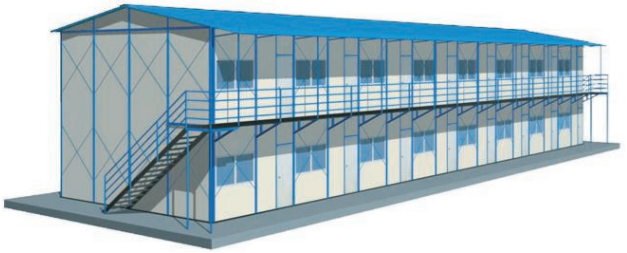
3. School

4.Warehouse, canteen, Toilet

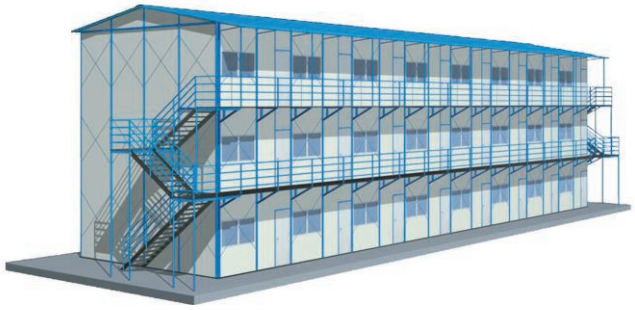
5.Apartment



Building size:
4K*10K*3P（single floor）



Building size:
4K*10K*6P（double floor）



Building size:
4K*10K*9P（triple floor）

Standard material	Specifications
Technicalparameter	#8 C-steel, 1.8mm
Roof panel	0.326mm PPGI, 50mm EPS sandwich panel
Wall panel	0.326mm PPGI, 50mm EPS sandwich panel
Window	PVC sliding window
Door	50mm EPS sandwich panel door
Flooring(1st floor)	Plywood+PVC carpet

Technical	parameter
Size	K=1.82mP=0.95m
Floor load	150 kg/sqm
Roof load	50 kg/sqm
Wind resistant	10 grades (28/s)
Earthquake resistant	7-8 grades
Life span	10 years

Width / Length		One Floor(3P)			Two Floor(6P)			Three Floor(9P)		
		3K	4K	5K	3K	4K	5K	3K	4K	5K
4	K	45.53	59.07	72.61	103.79	130.87	157.95	176.84	217.46	258.08
5	K	56.67	73.52	90.38	126.97	160.68	194.39	212.07	262.63	313.19
6	K	67.81	87.98	108.14	150.16	190.49	230.82	247.31	37.81	368.3
7	K	78.95	102.43	125.9	173.35	220.3	267.26	282.54	352.98	423.41
8	K	90.09	116.88	143.67	196.53	250.11	303.69	317.78	398.15	478.52
9	K	101.22	131.33	161.43	219.72	279.93	340.13	353.01	443.32	533.63
10	K	112.36	145.78	179.19	242.91	309.74	376.57	388.25	488.5	588.74
11	K	123.5	160.23	196.96	266.09	339.55	413	423.48	533.67	643.85
12	K	134.64	174.68	214.72	289.28	369.36	449.44	458.72	578.84	698.96
13	K	145.78	189.13	232.48	312.47	399.17	485.88	493.96	624.01	754.07
14	K	156.92	203.58	250.25	335.65	428.98	522.31	529.19	669.18	809.18
15	K	168.06	218.03	268.01	358.84	458.79	558.75	564.43	714.36	864.29
16	K	179.19	232.48	285.77	382.03	488.61	595.19	599.66	759.53	919.4
17	K	190.33	246.93	303.54	405.21	518.42	631.62	634.9	804.7	974.51
18	K	201.47	261.38	321.3	428.4	548.23	668.06	670.13	849.87	1029.62
19	K	212.61	275.84	339.06	451.59	578.04	704.49	705.37	895.05	1084.73
20	K	223.75	290.29	356.83	474.77	607.85	740.93	740.6	940.22	1139.84
21	K	234.89	304.74	374.59	497.96	637.66	777.37	775.84	985.39	1194.95
22	K	246.02	319.19	392.35	521.15	667.48	813.08	811.07	1030.56	1250.06
23	K	257.16	333.64	410.12	544.33	697.29	850.24	846.31	1075.74	1305.17
24	K	268.3	348.09	427.88	567.52	727.1	886.68	881.54	1120.91	1360.28
25	K	279.44	362.54	445.64	590.71	756.91	923.11	916.78	1166.08	1415.38
26	K	290.58	376.99	463.4	613.9	786.72	959.55	952.01	1211.25	1470.49
27	K	301.72	391.44	481.17	637.08	816.53	995.99	987.25	1256.43	1525.6
28	K	312.85	405.89	498.93	660.27	846.35	1032.42	1022.48	1301.6	1580.71
29	K	323.99	420.34	516.69	683.46	876.16	1068.86	1057.72	1346.77	1635.82
30	K	335.13	434.79	534.46	706.64	905.97	1105.3	1092.95	1391.94	1690.93

T HOUSE





T Type Modular House:

T house is kind of a modular prefabricated house using light steel as the framework, sandwich panel as the containment systemto combine a modularization dimension living or industrial house.

With the quick install assemble,recycle use, environmental,high-efficiency advantage.

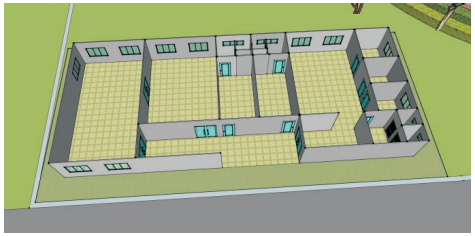
Standard material	
Steel structure	C-steel, square tube, I beam (1.8/2.0/2.5mm)
Roof panel	--0.326mm PPGI, 50mm EPS sandwich panel Density: 8kg --0.376mm PPGI, 50mm rock wool sandwich panel, density: 60kg
Wall panel	--0.326mm PPGI, 50mm EPS sandwich panel Density: 10kg --0.376mm PPGI, 50mm rock wool sandwich panel, density: 60kg
Window	--PVC sliding window --Alu. Sliding window
Door	--50mm EPS sandwich panel door --Wooden door --Alu. door
Flooring (1st /2nd/ floor)	--Plywood、PVC carpet --Cement board、vinyl --Galvanized steel plate、ceramic tile

Technical parameter	
Size	Width, Length: T=1.15m
	Height: H=1m
Floor load	150-250 kg/m²
Roof load	50 kg/m²
Wind resistant	10 grades (28/s)
Earthquake resistant	7-8 grades
Life span	15-20 years





Senior Accommodation
Building size:
7.7m*40.5m*6m



Office
Building size:
12m*29.7m*3m



Senior Accommodation
Building size:
12m*29.8m*6.6m



Worker Camp
Building size:
4.6m*14.95m*3m

K HOUSE Project Case



8500m²Worker Camp



7085m²Employee dormitory

T HOUSE Project Case



600m²Office





Customized T House

8875 Light Steel Structure Villa







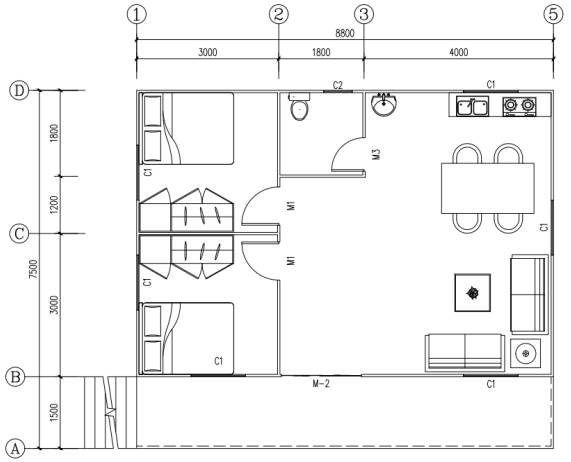


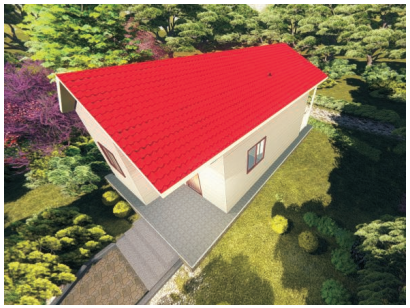


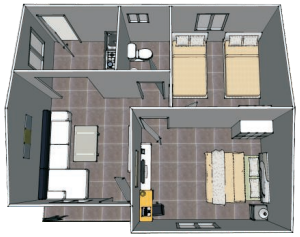
Product code	VH8875	Size	8800*7500*3000mm
Layout	2 bedrooms,1 bathroom,1 open kitchen,1 living room	Steel frame	Painted light steel
Wall	50mm Rock wool sandwich + PVC cladding	Roof	50mm Rock wool sandwich + resin roof
Floor	Fiber cementboard+wooden flooring	Window	Alu.sliding window, double layer tempered glass
Door	Alu. Sliding door	Ceiling	0.5mm alu.ceiling
Floor bear loading	250kg/m²	Wind load	150km/h
Roof load	70kg/m²	Life span	20 years

Living house

Living house is a upgrade prefabricated house based on the modular T house, dimension is totally customized, more kinds of materials for options, design according to the customer'stechnical and living requirements. With the steel structure and the sandwich panel as the principle part, add some decoration materials, Living house can give more choices for the clients, to satisfy the different requirements of the different countries, different area, different appearance and different function.

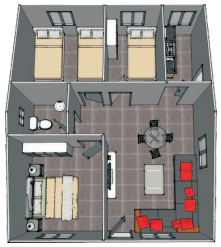






House code: VH0810
Size: 8m*10m*3m





House code: VH0607
Size: 6m*7m*3m





House code: VH0506
Size: 5m*6m*3m

Project Case













Quick Assembly Container House

Portable house

The portable house is a new style of the temporary prefabricated house, with it's low cost, easy assemble and functional usage,it becomes a very popular movable house all over the world.Totally knock down package, reduce the shipping cost; flexible design, give more choices for the clients and the beautiful living condition; different spatial distribution, give you a flexible space utilization.

Advantage:

Reliable structure
Easy&quick assemble and dissemble
Customized design
Long life span
Recycle use

Application:

Holiday house
Resort cabin
Office
Retail store

House code	BF-PH-0603
Size	L5950*W6000*H5600mm
Area	35.7sqm*2
Weight	1280kg
Roof Live load	30kg/m²
Floor Bear load	200kg/m²
Available stack-up	Single layer/double layer
Assemble time	2 workers in 4 hours
Standard Material	Wall:50mm EPS sandwich panel Roof:50mm EPS sandwich panel Painted steel chassis Window:Aluminum sliding window Door:50mm sandwich paneldoor/Steel door Floor:18mm plywood+1mm PVC carpet





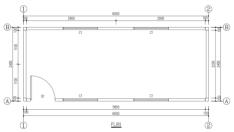






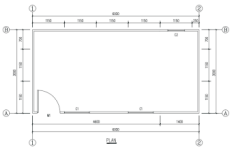
Portable house





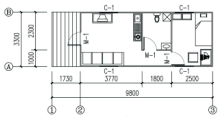
House Code : PH0624
House Size : 6m*2. 4m*2. 6m





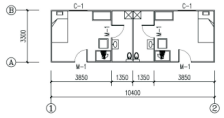
House Code: PH0603
House Size: 6m*3m*2. 6m





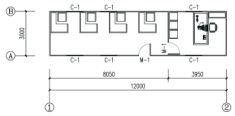
House Code : PH9833
House Size: 9. 8m*3. 3m*2. 6m

House Code: PH10433
House Size: 10. 4m*3. 3m*2. 6m



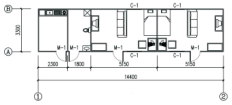


House Code: PH1230
House Size: 12m*3m*2. 6m





House Code: PH14433
House Size: 14. 4m*3. 3m*2. 6m





House Code: PH9833





House Code: PH0202

House Code: PH10433





House Code: PH02250

Sandwich panel for wall



Product Code: SW-EPS-1150
Product Name:EPS sandwich panel
Fire resistance: /
Application: projects with no requirement on fireproof

Density	8/10/12/14/20 kg/m³
Thickness	50/75/100/150mm
Effective width	950/1150mm
Thickness of the color steel sheet	0. 3/0. 35/0. 4/0. 45/0. 5mm
Color of the color steel sheet	gray white/skyblue/lotus leaf green/brightred/silvery gray



Product Code: SW-RW-1150
Product Name:Rock wool sandwich panel
Fire resistance: 60 mins
Application: Projects requires fireproof performance

Density	60/80/100/120 kg/m³
Thickness	50/75/100/150mm
Effective width	950/1150mm
Thickness of the color steel sheet	0. 3/0. 35/0. 4/0. 45/0. 5mm
Color of the color steel sheet	gray white/skyblue/lotus leaf green/brightred/silvery gray



Product Code: SW-PU-1150
Product Name:PU(Poly Urethane) sandwich panel
Application: projects requires excellent heat insulation performance, like cold room

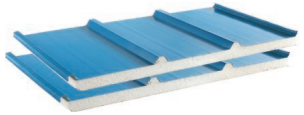
Density	35/38 kg/m³
Thickness	50/75/100/150mm
Effective width	950/1150mm
Thickness of the color steel sheet	0. 3/0. 35/0. 4/0. 45/0. 5mm
Color of the color steel sheet	gray white/skyblue/lotus leaf green/brightred/silvery gray



Product Code: SW-MgO-1150
Product Name:MGO(magnesium) sandwich panel
Fire resistance: 90 mins
Application: Hospital, Electronic workshop, Medical production line.

Thickness	50/75/100/150mm
Effective width	950/1150mm
Thickness of the color steel sheet	0. 35/0. 4/0. 45/0. 5mm
Color of the color steel sheet	gray white/skyblue/lotus leaf green/brightred/silvery gray

Sandwich panel for roof



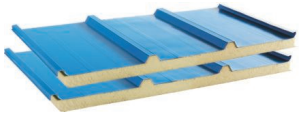
Product Code: SW-EPS-1050
Product Name:EPS sandwich panel
Application: Most Widely used.

Density	8/10/12/14/20 kg/m³
Thickness	50/75/100mm
Effective width	950/1150mm
Thickness of the color steel sheet	0. 3/0. 35/0. 4/0. 45/0. 5mm
Color of the color steel sheet	gray white/skyblue/lotus leaf green/brightred/silvery gray



Product Code: SW-RW-960
Product Name:Rock Wool sandwich panel
Applied in the project requires fireproof

Density	60/80/100/120 kg/m³
Thickness	50/75/100/150mm
Effective width	960mm
Thickness of the color steel sheet	0. 3/0. 35/0. 4/0. 45/0. 5mm
Color of the color steel sheet	gray white/skyblue/lotus leaf green/brightred/silvery gray



Product Code: SW-PU-1050
Product Name: PU sandwich panel
Application: Project requires excellent heat insulation performance and strong bear load

Density	35/38 kg/m³
Thickness	50/75/100/150mm
Effective width	960/1050mm
Thickness of the color steel sheet	0. 3/0. 35/0. 4/0. 45/0. 5mm
Color of the color steel sheet	gray white/skyblue/lotus leaf green /brightred/silvery gray

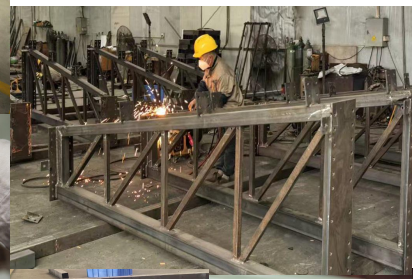
Quality control

The quality is controlling under a Qc team, their work begins from the prder effective.From the purchasing and ware housing, semi-finished products, to the finished products, each step we have our QC team to follow up, to make sure the qualityis 100% correctly.



→ Raw materials purchasing checking



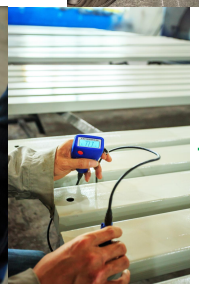






During production inspection ←





→ Finished products checking

Package

Considering about the materials can be easy damaged during delivery, unloading, and storage. We enhance the protective package to the materials and provide customers two manual "Guide of unloading "&"Guide of Storage" to confirm all the material delivery on site with 100% good condition













Loading



→ K house loading



→ Portable house loading



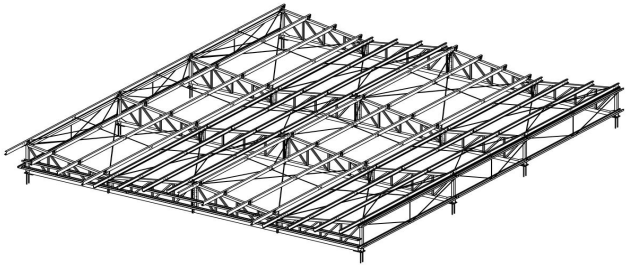
Sandwich panel & steel structure loading ←

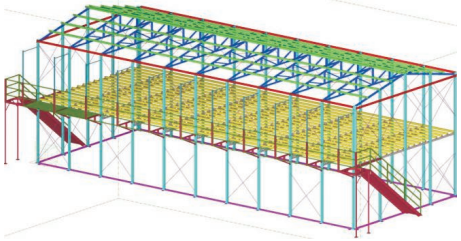


Steel structure loading ←

Outstanding R&D Team

"Our R&D Team keeps improving the existing products and develop one new product each year.
Our Technical Team skillful use "Adobe Photo Shop CS6","Auto CAD 2005", Lumion 5. 0","SketchUp 2015", Tekla Structures 16. 0"&" 3D" etc. solfwares.









Service

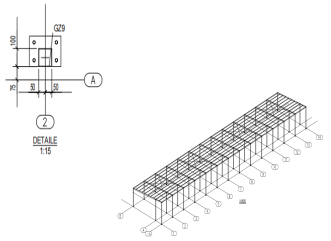


As a good partner, SW BUILDING SYSTEM will always support our valued customers to be more successful and always provide the below service.

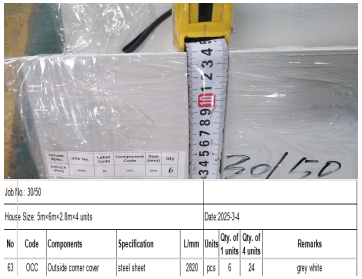
Supervisor on site to instruct assembling

Train your staffs

Provide our assemble team



All the components are labeling before loading



Job No.: 3050

House Size: 5m×6m×2.8m×4 units — Date: 2025-3-4

No	Code	Components	Specification	L/mm	Units	Qty. of 1 units	Qty. of 4 units	Remarks
63	OCC	Outside corner cover	steel sheet	2820	pcs	6	24	grey white

The detailed assemble drawing & video will provide for the better understand of the assemble

Engineering project



Yunfu Hydropower No.6 Bureau



Aopu Aluminium Industry Co., LTD



Meilin Construction Site



Meilin Construction Site’s interior view



Zhaoqing Hengfan Chemical Co., Ltd



Foshidi Warehouse&workshop

Exhibition



Huigu Construction Site



Meilin Construction Site’s staircase



Dawang Construction Site



Chaolang Workshop



Zhongchenghui Industrial Co., LTD



Villa in Malaysia