





Nuwen

Aluminium Formwork






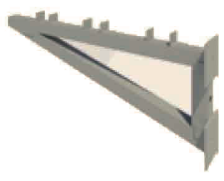

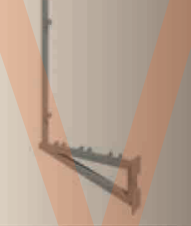












Add:Unit 1,no.187,Xiayang road,Hetang Town ,Pengjiang
District,Jiangmen City,Guangdong Province , China.

 E-mail: nuwen.china.2020@gmail.com

 Mobile: +86-18680577977

 WeChat/Whats app: +86-18680577977

Accessories

HOLLOW SECTION	Item	HOLLOW SECTION	Item	WORKING BENCH	Item	TIE ROD	Item	BOLT, NUT&WASHER	Item
	Weight:3.73KG/M DESCRIPTION: The hollow section are used to allow the horizontal straightness of wall panels and a flat wall surface (especially at the bottom) after concrete casting.		Weight:0.58KG DESCRIPTION: The Aluminum Waller Bracket use to allow the horizontal straightness of wall panels and a flat wall surface (especially at the bottom) after concrete casting.		Weight:15KG DESCRIPTION: The working bench is used as the inner working platform.		Weight:1.7KG/M DESCRIPTION: The tie rod will be used as an embedded anchor in order to fix the bracket /panels on the concrete surface during its installation.		Weight:0.185KG DESCRIPTION: The set of accessories are used to connect panels with panels.
ELEVATOR BRACKET	Item	SLAB BRACKET	Item	WALL BRACKET	Item	REUSABLE FLAT-TIE AND PVC SLEEVES	Item	EMBEDDED FLAT-TIE	Item
	Weight:8.5KG DESCRIPTION: The elevator bracket is used as a substitute of scaffolding system, the working platform, slab platform and elevator platform will be fixed on the concrete.		Weight:12.5KG DESCRIPTION: The slab bracket is used as a substitute of scaffolding system, the working platform, slab platform and elevator platform will be fixed on the concrete.		Weight:13KG DESCRIPTION: The wall bracket is used as a substitute of scaffolding system, the working platform, slab platform and elevator platform will be fixed on the concrete.		Weight:0.158-0.711KG DESCRIPTION: The flat tie is used to joint the wall panel to the opposite side's wall panel. And the PVC sleeves will make the flat-tie reusable.		Weight:0.064-0.286KG DESCRIPTION: The embedded flat-tie is one-time flat tie.
PIN & WEDGE	Item	LONG PIN	Item	SLAB TRANSFER BOX	Item	STEEL PROPS	Item	JOINT BAR	Item
	Weight:0.064&0.03KG DESCRIPTION: The pin and wedge will be used to joint the panels together.		Weight:0.286KG DESCRIPTION: The long pin is used to fix the middle-beam and joint bar with wedge.		Weight:13KG DESCRIPTION: The slab transfer box is used to transfer panels after formwork dismantlement.		Weight:11.63-17.808KG DESCRIPTION: The steel props are used to support the slab during concrete pouring and casting. It will remain under the prop head until it can satisfy the dismantling requirement.		Weight:0.713KG DESCRIPTION: The joint bar is used to connect with the prop head and middle beam.
PVC SLEEVE EJECTOR	Item	REUSABLE FLAT-TIE EJECTOR	Item	T TYPE PANEL PULLER	Item	Y TYPE PANEL PULLER	Item	HOLE HOOK	Item
	Weight:1.983KG DESCRIPTION: The PVC sleeve ejector is used to remove the reusable PVC sleeves .		Weight:2.679KG DESCRIPTION: The reusable flat-tie ejector is used to remove the reusable flat-tie .		Weight:4.86KG DESCRIPTION: The T type panel puller is used to remove the slab panels.		Weight:3.25KG DESCRIPTION: The Y type panel puller is used to remove the wall panels .		Weight:0.768KG DESCRIPTION: The hole hook is used to adjust the position of panels.

Components

WALL & COLUMN

WALL PANEL



Item W(WxH)	Weight (kg)
600 W 2400	27.89
500 W 2400	24.10
400 W 2400	19.90
350 W 2400	17.93
300 W 2400	14.89
250 W 2400	13.13
200 W 2400	11.44
150 W 2400	9.35
125 W 2400	8.56
100 W 2400	7.76
50 W 2400	6.18

REMARKS:
 1. Without external corner at both sides
 2. Without Rocker at the bottom

DESCRIPTION:
 Wall Panel to support vertical structure like wall and column. Usually the bottom part is linked to Rockers with Bolt & Nut for easy dismantling while the top is connected to Beam Joint for beam or Slab Joint with Pin & Wedge.

Wall End Panel



Item WS(WxH)	Weight (kg)
400 WS 2400	28.77
350 WS 2400	27.01
300 WS 2400	25.34
250 WS 2400	23.57
200 WS 2400	18.26
150 WS 2400	19.79
125 WS 2400	19.01
100 WS 2400	18.21

REMARKS:
 1. With external corner at both sides
 2. Without Rocker at the bottom

DESCRIPTION:
 Wall Panel to support vertical structure like wall and column. Usually the bottom part is linked to Rockers with Bolt & Nut for easy dismantling while the top is connected to Beam Joint for beam or Slab Joint with Pin & Wedge.

External Corner Joint



Item EC(H)	Weight (kg)
63.5 × 63.5 EC 2400	4.81
63.5 × 63.5 EC 600	1.21

DESCRIPTION:
 Used to connect wall panels at external corner area.

Wall Top Panel



Item W(WxH)	Weight (kg)
600 WT 600	6.65
500 WT 600	5.72
400 WT 600	4.80
350 WT 600	4.32
300 WT 600	3.87
250 WT 600	3.39
200 WT 600	2.94
150 WT 600	2.47
125 WT 600	2.24
100 WT 600	2.00
50 WT 600	1.53

DESCRIPTION:
 Wall top panel is used to connect the standard wall panel to satisfy the storey.

Internal Corner Joint



Item(A1+A2) IC (H)	Weight (kg)
100 × 100 IC 2400	14.12
100 × 120 IC 2400	15.32
100 × 125 IC 2400	15.62
100 × 130 IC 2400	16.30
100 × 140 IC 2400	16.51
100 × 150 IC 2400	17.12
100 × 160 IC 2400	17.33
150 × 150 IC 2400	20.12

DESCRIPTION:
 Internal corner joint is used to connect wall panel and wall end panel at internal corner. The height of IC are equal to the wall panel height.

Rocker



Item R (H+W)	Weight (kg)
63.5 R 45 600	1.02
63.5 R 50 600	1.06

DESCRIPTION:
 Used to connect wall panels at external corner area.

Kicker



Item K(LxH)	Weight (kg)
350 K 1800	12.59
350 K 1200	8.50
300 K 1800	11.30
300 K 1200	7.62
150 K 1800	7.31
150 K 1200	4.92

DESCRIPTION:
 Kickers are fixed on the external wall panels with kicker screws before concrete pouring. The function of kickers is to support the external wall panels for next floor.

Components

BEAM

Beam Soffit



Item BS(HxL)	Weight (kg)
400 BS 1100	13.35
300 BS 1100	11.69
250 BS 1100	10.84
200 BS 1100	8.37
150 BS 1100	9.20
125 BS 1100	8.79

REMARKS:
With external corner at both sides.

DESCRIPTION:
Beam soffit issued to support Beam.

Beam Soffit



Item BSB(HxL)	Weight (kg)
400 BSB 1100	8.71
300 BSB 1100	7.05
250 BSB 1100	6.20
200 BSB 1100	5.39
150 BSB 1100	4.56
125 BSB 1100	4.15

REMARKS:
Without external corner at both sides.

DESCRIPTION:
Beam soffit issued to support Beam.

Beam Prop Head



Item BP(HxL)	Weight (kg)
300 BP 300	2.51
200 BP 300	1.98
200 BP 250	1.72
200 BP 200	1.47
150 BP 300	1.71
150 BP 200	1.26
150 BP 150	1.03

DESCRIPTION:
Panel to support beam and use to join two Beam Bottom with Pin & Wedge.

Prop Head



Item PH(HxL)	Weight (kg)
150 PH 330	1.74
150 PH 280	1.50
150 PH 230	1.26

DESCRIPTION:
Use to join the beams together (Middle beam and/or End beam), the steel props will be placed under the prop head.

Beam Corner Joint



Item (A1+A2)LS(L)	Weight (kg)
100×100 LS 200	2.24
100×120 LS 200	2.57
100×125 LS 200	2.64
100×130 LS 200	2.74
100×140 LS 200	2.85
100×150 LS 200	2.99
100×160 LS 200	3.13
150×150 LS 200	3.70

DESCRIPTION:
Use for internal corners usually at beams. Connect to other panels using Pin & Wedge.

Beam Side Panel



Item B(HxL)	Weight (kg)
400 B 1100	8.71
300 B 1100	7.05
200 B 1100	5.40
150 B 1100	4.56
100 B 1100	3.73

DESCRIPTION:
Use for internal corners usually at beams. Connect to other panels using Pin & Wedge.

Beam internal corner



Item (A1+A2) IC (H)	Weight (kg)
100×100 IC 400	2.05
100×150 IC 400	2.42
150×150 IC 400	2.79
100×100 IC 600	3.17
100×150 IC 600	3.77
150×150 IC 600	4.37

DESCRIPTION:
Internal corner joint is used to connect panels at internal corner. The height of IC are equal to the beam side panel height.

Beam Outer corner



Item (A1+A2) LC (L1+L2)	Weight (kg)
100×100 LC 400+400	4.76
100×150 LC 400+400	5.87
150×150 LC 400+400	7.00

DESCRIPTION:
Use for internal corners usually at beams. Connect to other panels using Pin & Wedge.

Components

SLAB

Slab Panel



Item D(WxL)	Weight (kg)
600 D 1200	12.84
450 D 1200	10.19
400 D 1200	9.34
300 D 1200	7.29
200 D 1200	6.91

DESCRIPTION:
The slab panel will be used to support the concrete weight during concrete pouring and casting.

End Beam



Item EB	Weight (kg)
150 EB 300	2.42
150 EB 400	3.20
150 EB 500	3.97
150 EB 600	4.75
150 EB 700	5.53
150 EB 800	6.31

DESCRIPTION:
Use to join the prop head and slab corner, the end beam supports the slab panels.

Slab Corner Joint



Item (A1+A2) SN (L)	Weight (kg)
100×100 SN 1800	9.95
100×120 SN 1800	10.79
100×125 SN 1800	10.99
100×130 SN 1800	11.48
100×140 SN 1800	11.60
100×150 SN 1800	12.00
100×160 SN 1800	12.40
150×150 SN 1800	14.01

DESCRIPTION:
The slab corner joint will be used to connect the wall panel and slab panel.

Middle Beam



Item MB	Weight (kg)
150 MB 1050	8.41
150 MB 900	7.16

DESCRIPTION:
Use to join the prop heads, the middle beam supports the slab panels.

Prop Head



Item PH	Weight (kg)
150 PH 300	2.50

DESCRIPTION:
Prop head to support the slab with steel props. Also it will be connected with long pin & wedge and BB bar for middle beam & end beam.

Slab Incorner Joint



Item (A1+A2) SC (L1+L2)	Weight (kg)
100×100 SC 400+400	4.76
100×150 SC 400+400	5.87
150×150 SC 400+400	7.00

DESCRIPTION:
The slab incorner joint will be used to connect the wall panel and slab panel at the incorner position.

Construction Process



Leveling and structural line
Lay out lines according to the engineering drawings, bind the vertical wall reinforcement and accurately weld the positioning reinforcement.



Apply oil
Apply the oil, according to the plate drawing, starting with the negative corner formwork.



Wall Panels setup
the wall panels setup process shall be the inner corner wall panels, inner wall panels, flat-tie, external wall panels, pin and wedges.



Staircase Panels setup
The staircase panels setup process shall be staircase soffit length, step panels, step angles, etc.



Installation of M&E, rebar
Installation of M&E, plumbing components, steel rebar and slab box-out.



Inspection and acceptance
All the vertical panels shall be fixed in position and the external corner should be checked. This will determine if further action is required to control the deviation.



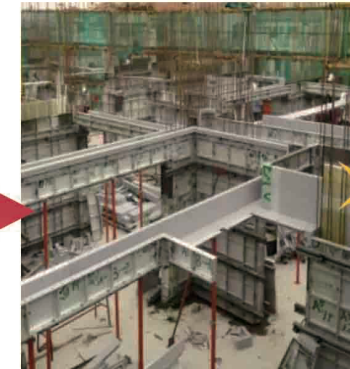
Slab Panels dismantlement
After remove all pin and wedges, middle beam and end beam will be easily removed. BTW, the prop head and steel props must not be removed to support the floor slab.



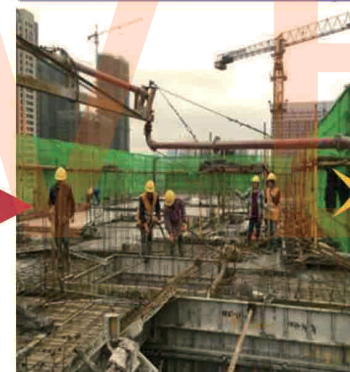
Kickers dismantlement
The wall panels are removed to disconnecting the lower kicker from the adjacent formwork and prepared for reuse.



Flat ties & PVC sleeves
Flat ties are used to ensure the wall thickness and fixed the wall panels. PVC sleeves are used to protect the flat tie so as to reuse it. Both of it can be removed by special tools.



Beam Panels setup
Setup beam panels according to the construction drawing for beam soffit panels, beam support, beam side panels, etc.



Concrete pouring
Concrete pouring is distributed evenly throughout the wall section before commencing to cast the slab areas.



Panels cleansing
All components shall be cleaned after dismantlement for a better quality in next floor.



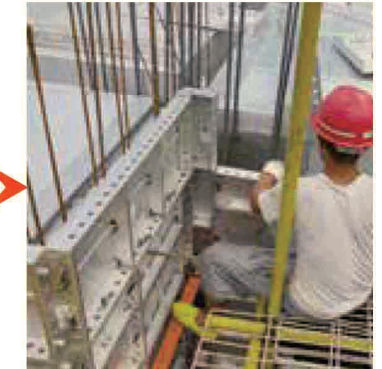
Slab Panels setup
Fixed the slab corner panels on the top of wall panels. Then the slab panels setup process shall be middle beam, prop head, end beam, slab panels, etc.



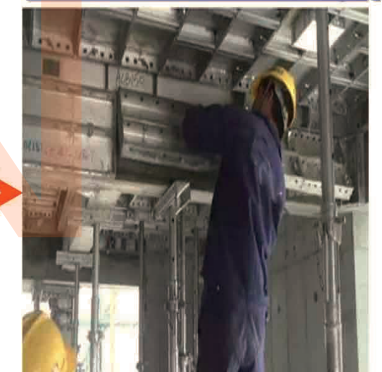
Wall Panels dismantlement
The first wall panel will be the most difficult to remove out from wall. And it's forbidden to remove it violently.



Transfer Panels
Transfer all panels out through Slab box to large open space. After that, it can be filled with second-time concrete.



Fixed the slab corner
Kickers are fixed on the external wall panels with kicker screws before concrete pouring. The function of kickers is to support the external wall panels for next floor.



Beam Panels dismantlement
Remove all pins and wedges from the section of beam side. Then, remove all the beam panels.

Demoulding effect

Interior wall formwork demoulding effect



Exterior wall formwork demoulding effect



Demoulding effect of roof and beam formwork



Demoulding effect

Demoulding effect of ladder formwork



Tunnel formwork demoulding effect



Project list

