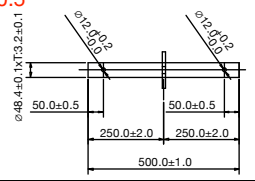
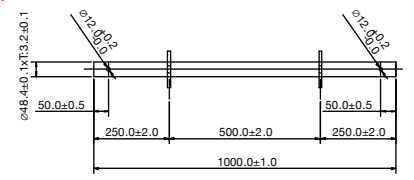
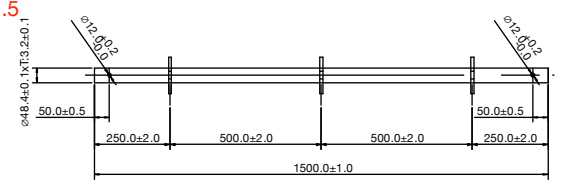
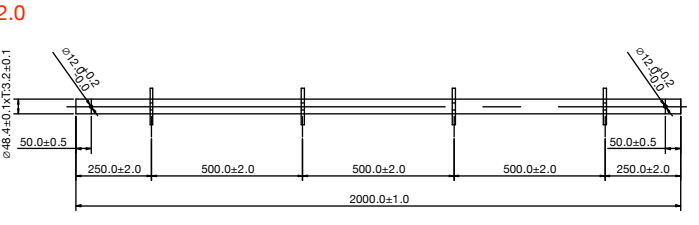


Stage Vertical

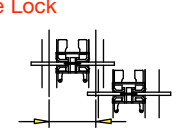
SV0.5  Stock 0PCS

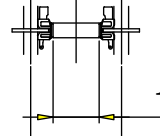
SV1  Stock 0PCS

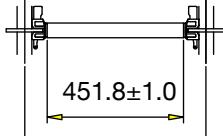
SV1.5  Stock 100PCS
Weight 7.15kg
Identification:

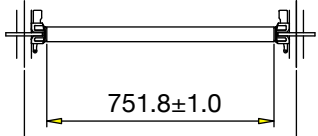
SV2.0  Stock 400PCS
Weight 9.46kg
Identification:

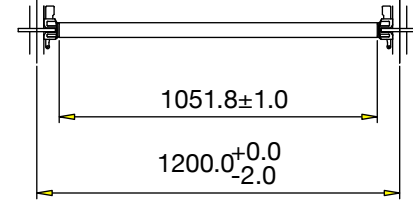
Horizontal

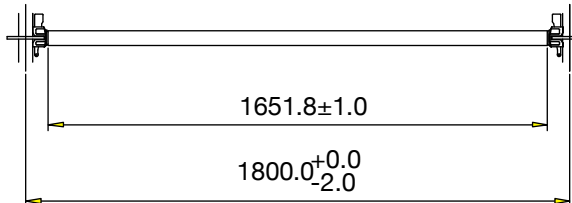
Double Wedge Lock  Stock 40PCS
Weight 1.25kg
Identification: 154.2^{+0.0}_{-2.0}

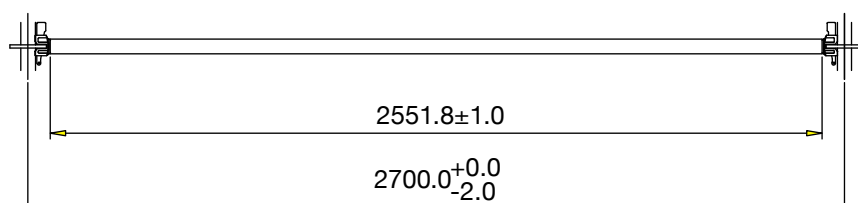
H0.3  Stock 60PCS
Weight 1.77kg
Identification: 151.8±1.0
300.0^{+0.0}_{-2.0}

H0.6  Stock 60PCS
Weight 2.88kg
Identification: 451.8±1.0
600.0^{+0.0}_{-2.0}

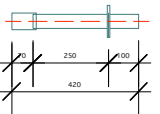
H0.9  Stock 200PCS
Weight 3.98kg
Identification: 751.8±1.0
900.0^{+0.0}_{-2.0}

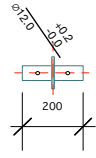
H1.2  Stock 0PCS
1051.8±1.0
1200.0^{+0.0}_{-2.0}

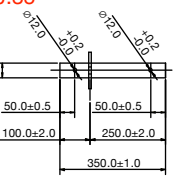
H1.8  Stock 1050PCS
Weight 7.31kg
Identification: 1651.8±1.0
1800.0^{+0.0}_{-2.0}

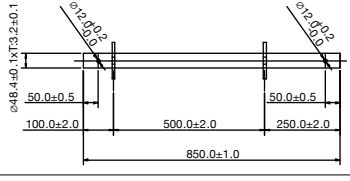
H2.7  Stock 0PCS
2551.8±1.0
2700.0^{+0.0}_{-2.0}

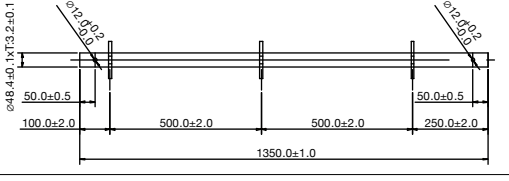
Cut Vertical

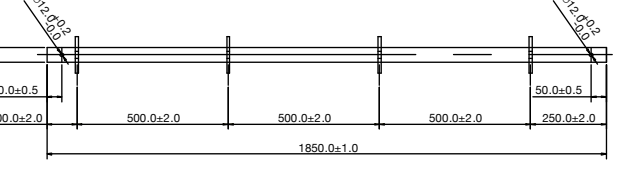
B/S  Stock 100PCS
Weight 2.24kg
Identification:

CV0.2  Stock 150PCS
Weight 1.25kg
Identification:

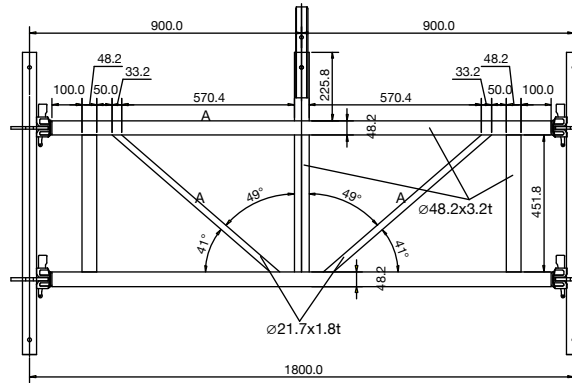
CV0.35  Stock 200PCS
Weight 1.85kg
Identification:

CV0.85  Stock 200PCS
Weight 4.2kg

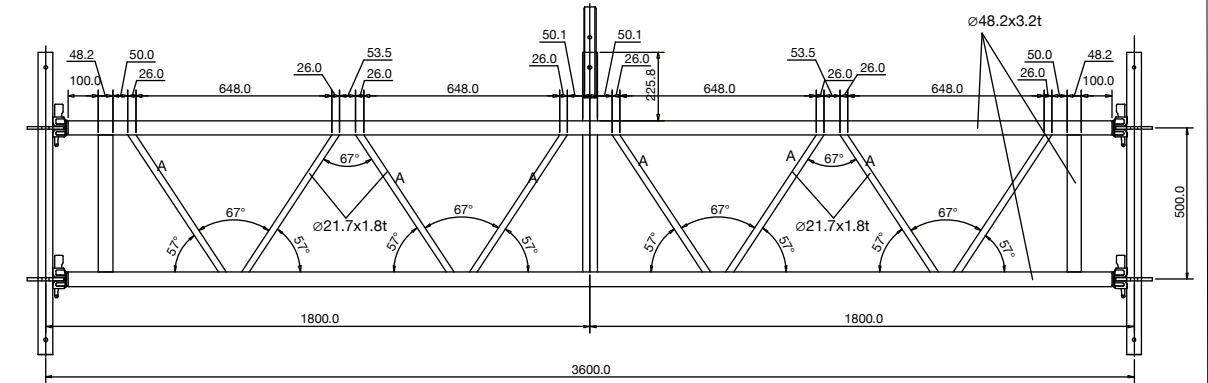
CV1.35  Stock 100PCS
Weight 6.55kg
Identification:

CV1.85  Stock 0PCS

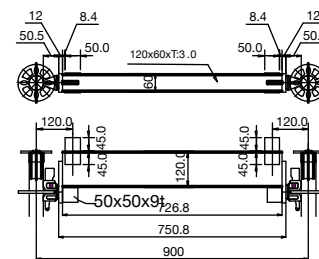
H.D 1.8 Stock 6PCS Weight 23.52kg



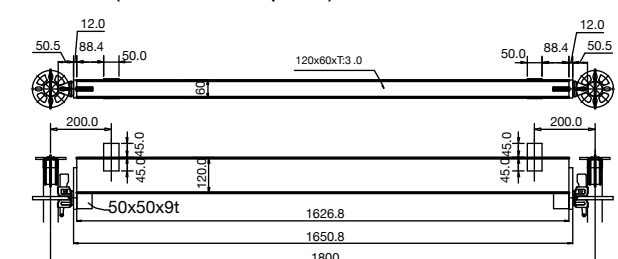
H.D 3.6 Stock 6PCS Weight 40.43kg



H.S 0.9 Stock 60PCS Weight 10.09kg
Oobiki(Horizontal Square)1 A-0.9 60x120x3t 0.9m



H.S 0.9 Stock 180PCS Weight 17.89kg
Oobiki(Horizontal Square) 1 A-1.8 60x120x3t 1.8m



Project Title:

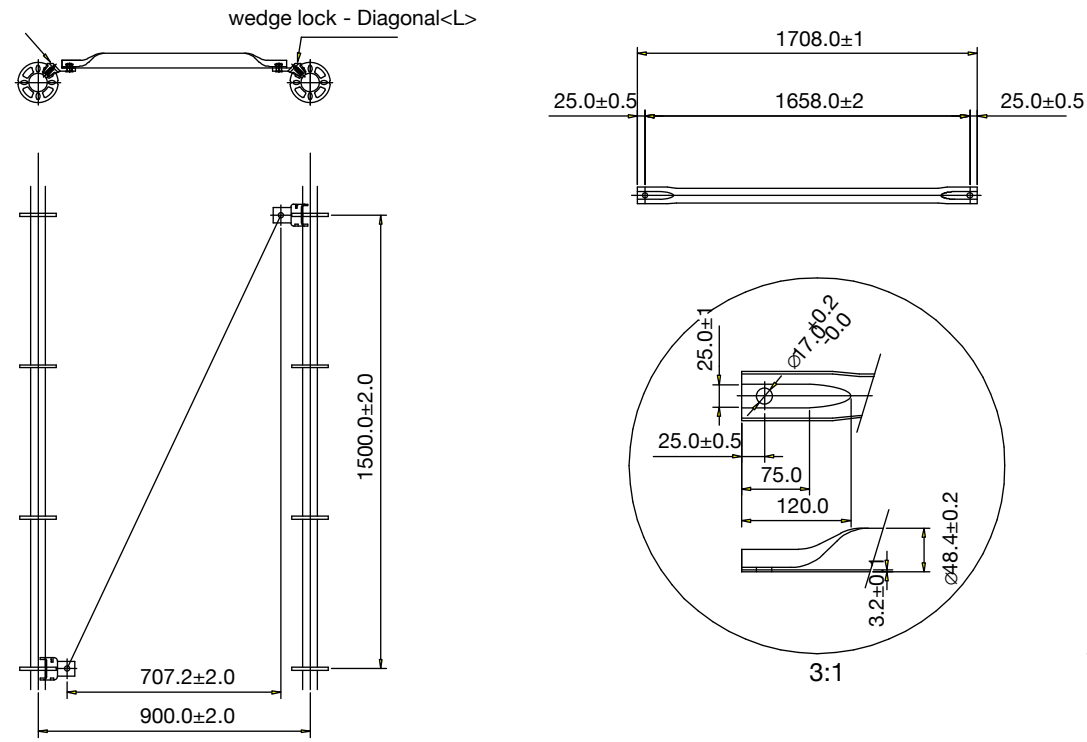
Place:

Date:
Scale:

No:

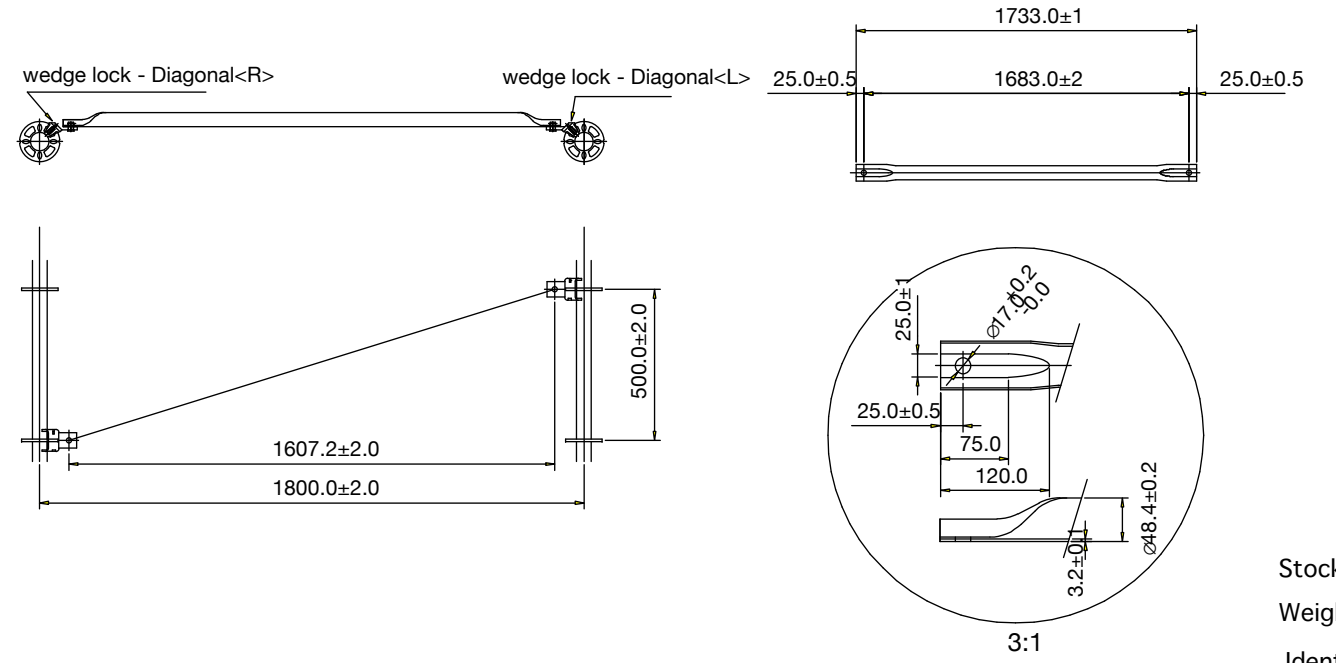
Diagonal

D0.9/1.5



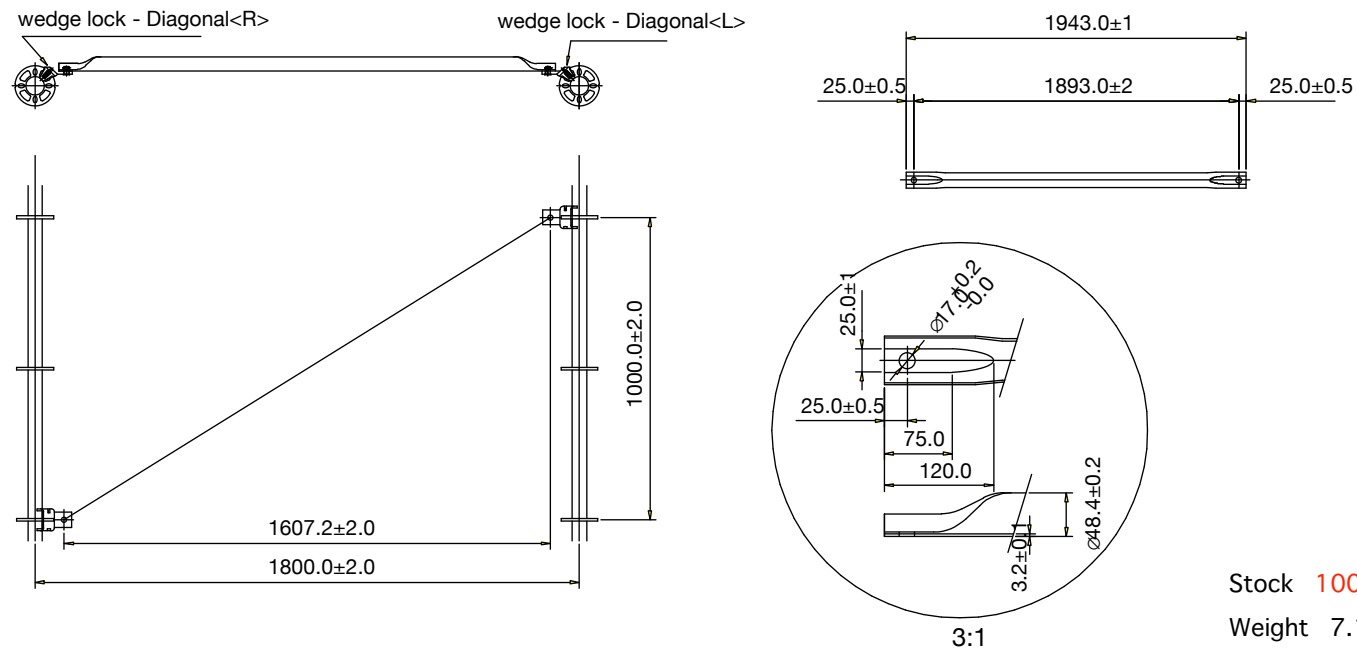
Stock 20PCS
Weight 6.47kg
Identification:

D1.8/0.5



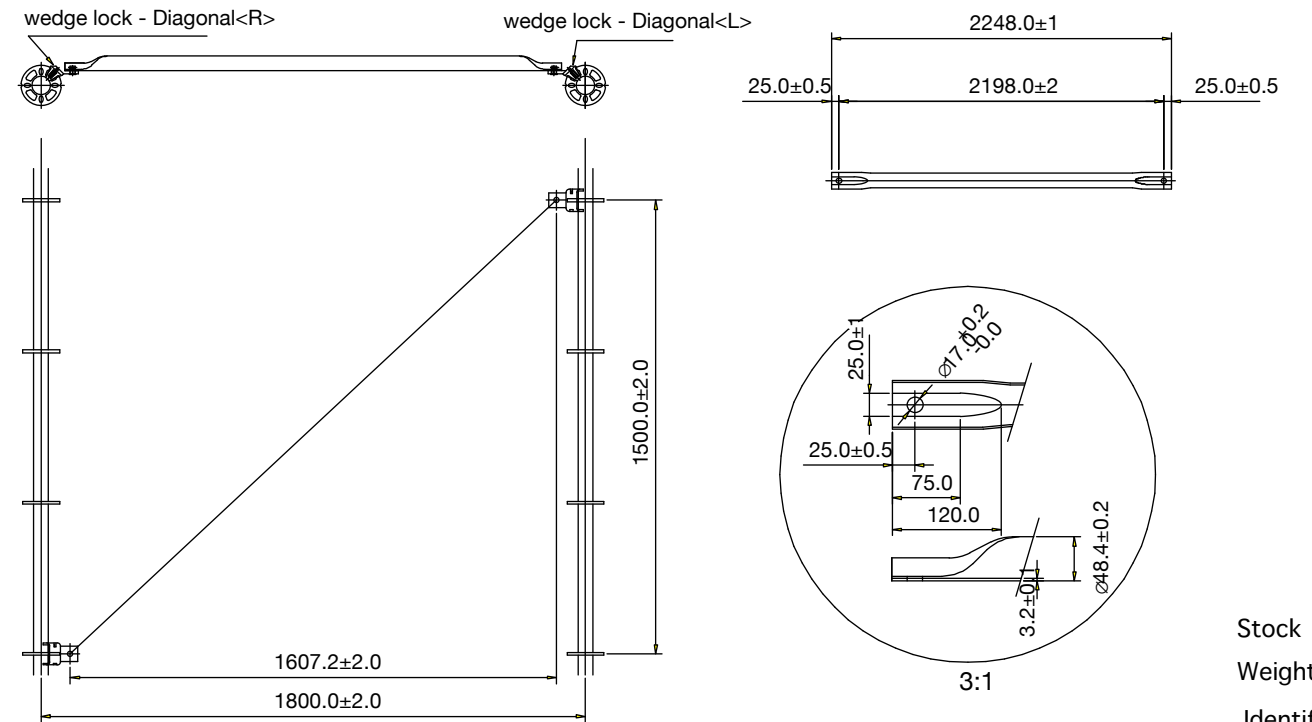
Stock 300PCS
Weight 6.54kg
Identification:

D1.8/1.0



Stock 100PCS
Weight 7.16kg
Identification:

D1.8/1.5



Stock 300PCS
Weight 8.05g
Identification:



Project Title:

Place:

Date:
Scale:

No:

Level Diagonal

LD1.8

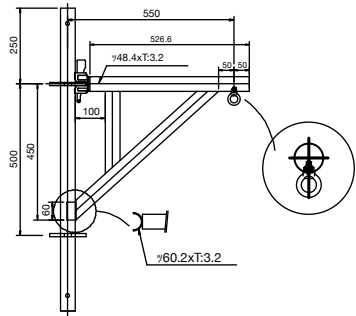
LD0.9

Stock 80PCS
Weight 7.16kg
Identification:

Stock 20PCS
Weight 7.16kg
Identification:

Bracket

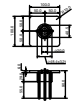
BC



Stock 6PCS
Weight 6.45kg
Identification:

Floor Support

FS



Stock 200PCS
Weight 0.81kg
Identification:

Jack Base

JB

Stock 300PCS
Weight 2.17kg
Identification:

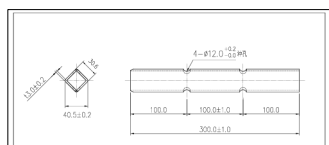
Joint Pin

JP

Stock 400PCS
Weight 0.85kg
Identification:

Joint Pin

JP



Stock 400PCS
Weight 0.85kg
Identification:

U-Clip

UC

Stock 200PCS
Weight 0.12kg
Identification:

U-HeadJACK

UH

Stock 12PCS
Weight 4.64kg
Identification:

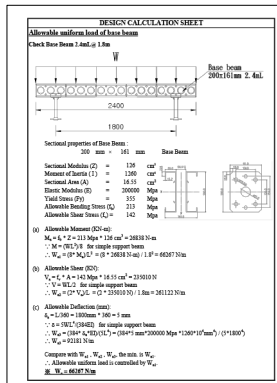
Movable Ring Coupler

MR

Stock 60PCS
Weight 1.04kg
Identification:

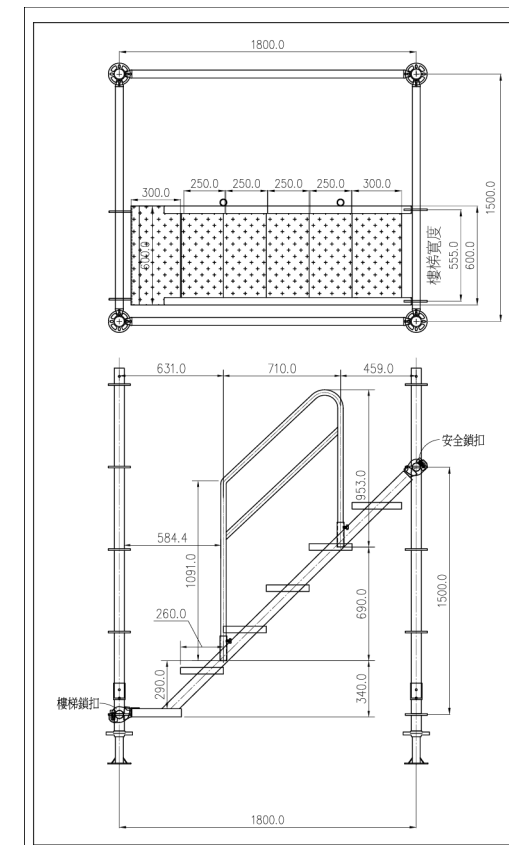
Base Beam

BB



Stock 8PCS
Weight 42.70kg
Identification:

Staircase



Stock 6PCS
Weight 35.56kg
Identification:



Project Title:

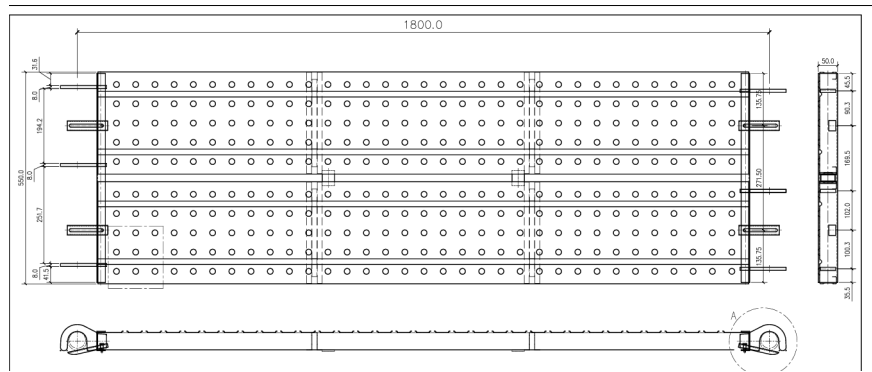
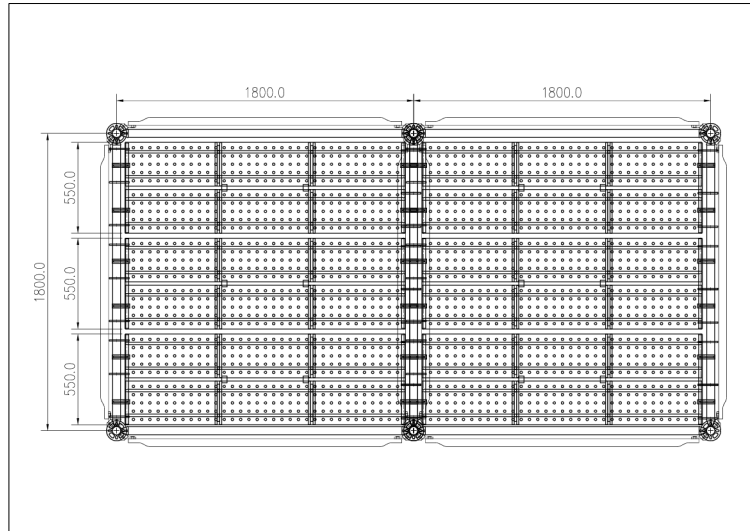
Place:

Date:
Scale:

No:

Plank L1800/L900

PL1.8/0.9



PL1.8

Stock 100PCS
Weight 18.24kg
Identification:

PL0.9

Stock 20PCS
Weight 10.43kg
Identification:

Base Beam

BB

DESIGN CALCULATION SHEET

Allowable uniform load of base beam

Check Base Beam 2.4mL@ 1.8m

Sectional properties of Base Beam :
200 mm × 161 mm Base Beam

Sectional Modulus (Z)	=	126	cm ³
Moment of Inertia (I)	=	1260	cm ⁴
Sectional Area (A)	=	16.55	cm ²
Elastic Modulus (E)	=	200000	Mpa
Yield Stress (Fy)	=	355	Mpa
Allowable Bending Stress (f _b)	=	213	Mpa
Allowable Shear Stress (f _v)	=	142	Mpa

(a) Allowable Moment (KN-m):
 $M_a = f_b \cdot Z = 213 \text{ Mpa} \cdot 126 \text{ cm}^3 = 26838 \text{ N-m}$
 $\therefore M = (WL^2)/8$ for simple support beam
 $\therefore W_{a1} = (8 \cdot M_a) / L^2 = (8 \cdot 26838 \text{ N-m}) / 1.8^2 = 66267 \text{ N/m}$

(b) Allowable Shear (KN):
 $V_a = f_v \cdot A = 142 \text{ Mpa} \cdot 16.55 \text{ cm}^2 = 235010 \text{ N}$
 $\therefore V = WL/2$ for simple support beam
 $\therefore W_{a2} = (2 \cdot V_a) / L = (2 \cdot 235010 \text{ N}) / 1.8\text{m} = 261122 \text{ N/m}$

(c) Allowable Deflection (mm):
 $\delta_a = L/360 = 1800\text{mm} / 360 = 5 \text{ mm}$
 $\therefore \delta = 5WL^4 / (384EI)$ for simple support beam
 $\therefore W_{a3} = (384 \cdot \delta_a \cdot EI) / (5L^4) = (384 \cdot 5 \text{ mm} \cdot 200000 \text{ Mpa} \cdot 1260 \cdot 10^4 \text{ mm}^4) / (5 \cdot 1800^4)$
 $\therefore W_{a3} = 92181 \text{ N/m}$

Compare with W_{a1} , W_{a2} , W_{a3} , the min. is W_{a1} .
 \therefore Allowable uniform load is controlled by W_{a1} .
※ $W_a = 66267 \text{ N/m}$

Stock 8PCS
Weight 42.70kg
Identification: