

About Us

Top Beam is one of the latest products designed to replace wood beam in vast range of civil and architectural projects with its remarkable strength-to-weight ratio, usage versatility in different work environment, and enduring life span as guaranteed by an impeccable quality control procedure in fabrication.



Beginning with ring scaffolding system, Sucoot works out in the past 30 plus years excelling its advanced specialty formwork and support system to top Taiwanese infrastructure construction market which is rigorously competitive; and now its customer base further expands to include 65 countries and regions globally thanks to peerless products and masterful engineering services it offered complying with customer's demand.

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We will respond to your request for an efficient and competitive proposal meeting your requirement for formwork and support system in various projects; and are confident that the proposals and alternatives we'd have provided will be the most economic, safe and convenient to assist you to win and finish the project.





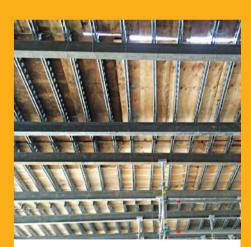
EFFICIENCY

Light weight and usage versatility can be used in wide application.



ENDURABILITY

Finest material ensures its anti-rust, high strength property and long life span.



Light, small and solid beam for

Durability is much better than

our formwork greatly benefit us.

Site Manager

— HCGC. Taiwan

H20 beams."

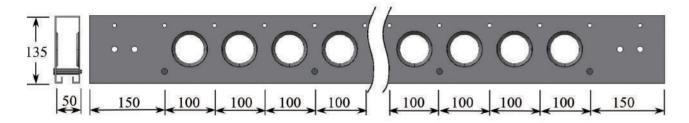
HIGH LOAD CAPACITY

A Remarkable strengthto-weight ratio, the load capacity is 25% stronger than wood beam.

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TOP BEAM PROPERTIES



Features:

- Made from High strength, antirust galvanized steel
- Connect with plywood by selftapping screws or steel nails
- Environmental Protection
- Long life span and high durability

Engineering Properties:

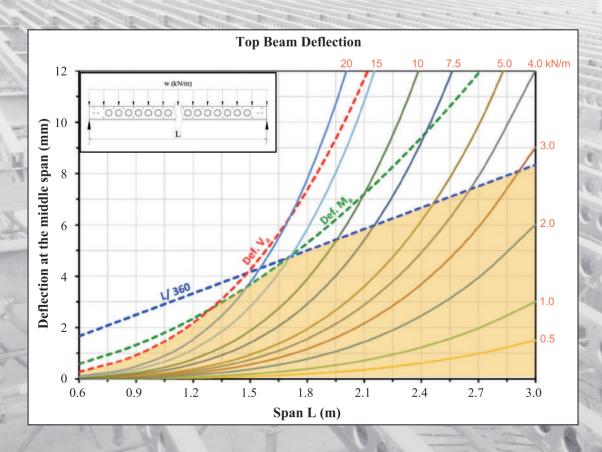
- E (Elastic Modulus) = 200 GPa
- F_v (Yield Stress) = 365 MPa
- I_{xx} (Moment of Inertia) = 175.4 cm⁴
- M_a (Allowable Bending Moment) = 5.5 kNm

Unit: mm

● V_a (Allowable Shear Force) = 17 kN

Specifications:

- Dimensions: Height 135 mm × Width 50 mm × Thickness 2.3mm
- Nominal Weight: 5.6 kg/m
- Lengths: 1.2m, 1.5m, 1.8m, 2.4m, 3.0m, 3.6m
- X Available in lengths between 1.2m and 3.6m with 0.3m increment.



COMPARISON BETWEEN TOP BEAM AND H20 BEAM











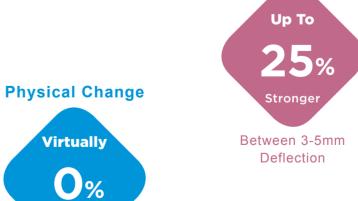
Heavier

After Water Absorption



Top Beam is

Deflection & Load Capacity







MEASUREMENT TABLE OF TOP BEAM

Example 1: (Table 1, Red line)

Given: Floor Thickness (80 cm), use Top Beam @0.3m for second bearer

Find: Main Bearer spacing \leq 2.22m

Example 2: (Table 2, Blue line)

Given: Floor Thickness (20 cm), use Top Beam@1.8m for main bearer

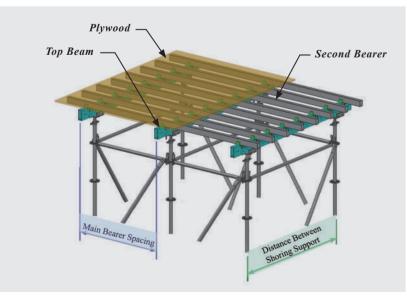
Find: Shoring support spacing ≤ 1.7 m

m)		Table 1 For Second Bearer Spacing (m)				Table 2 For Main Bearer Spacing (m)							
or ss (cı	Total Load (kN/m²)												
Floor Thickness (cm)		0.2	0.3	0.4	0.5	0.6	0.75	0.90	1.20	1.50	1.80	2.40	3.00
Thic		Max. distance between Main Bearer (m)			Max. distance between Shoring Support (m)								
15	7.20	3.73	3.26	2.96	2.74	2.58	2.40	2.26	2.05	1.90	1.79	1.59	1.42
18	7.92	3.61	3.15	2.86	2.66	2.50	2.32	2.18	1.98	1.84	1.73	1.52	1.36
20	8.40	3.54	3.09	2.81	2.61	2.45	2.28	2.14	1.95	1.81	1.70	1.47	1.32
25	9.60	3.39	2.96	2.69	2.49	2.35	2.18	2.05	1.86	1.73	1.59	1.38	1.18
30	10.80	3.26	2.84	2.58	2.40	2.26	2.09	1.97	1.79	1.64	1.50	1.30	1.04
40	13.20	3.04	2.66	2.42	2.25	2.11	1.96	1.84	1.66	1.49	1.36	1.07	0.85
50	15.60	2.88	2.51	2.28	2.12	1.99	1.85	1.74	1.53	1.37	1.21	0.90	0.72
60	18.00	2.74	2.40	2.18	2.02	1.90	1.76	1.64	1.42	1.25	1.04	0.78	0.62
70	20.40	2.63	2.30	2.09	1.94	1.82	1.69	1.54	1.34	1.11	0.92	0.69	0.55
80	22.80	2.54	2.22	2.01	1.87	1.76	1.60	1.46	1.24	0.99	0.82	0.62	0.49
90	25.20	2.45	2.14	1.95	1.81	1.70	1.52	1.39	1.12	0.89	0.74	0.56	0.44
100	27.60	2.38	2.08	1.89	1.75	1.63	1.45	1.33	1.02	0.82	0.68	0.51	0.41
120	32.40	2.26	1.97	1.79	1.64	1.50	1.34	1.16	0.87	0.69	0.58	0.43	0.34
150	39.60	2.11	1.84	1.66	1.49	1.36	1.14	0.95	0.71	0.57	0.47	0.35	0.28
180	46.80	1.99	1.74	1.53	1.37	1.21	0.96	0.80	0.60	0.48	0.40	0.30	0.24
200	51.60	1.93	1.68	1.46	1.30	1.09	0.87	0.73	0.54	0.43	0.36	0.27	0.21
Note: 1. Top Beam deflection is limited to L/360.													
2. Unit weight of concrete is 24 kN/m ³ . 3. According to ACI347-04, use 3.6 kN/m ² for Live Load.													
3. According to AC134/-04, use 3.6 kN/m² for Live Load. 4. Total Load = Floor Thickness × 24 + 3.6													

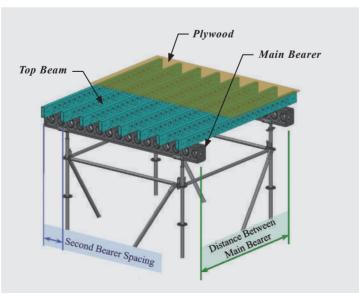
Notes for Installation:

- The allowable open span of Top Beam may not exceed 3.0m.
- The sheeting is to be nailed directly onto the upper chord.
- Top Beams are only to be used in an upright position.
- Each Top Beam must be fixed by two Top Beam Clips at least.

Top Beam for Main Bearer



Top Beam for Second Bearer



COMPONENTS

Top Beam to H Beam Clamp	Description	Weight
	 Connect Top Beam to H beam on wall formwork or crane handled soffit schemes. The Allowable Tension (6.7 kN) and Slip (1.17 kN) figures are superior to GTX clamp and Timber clamp. The Clamp can be set on any position on Top beam. Made from High strength, anti-rust galvanized steel. 	0.23Kg

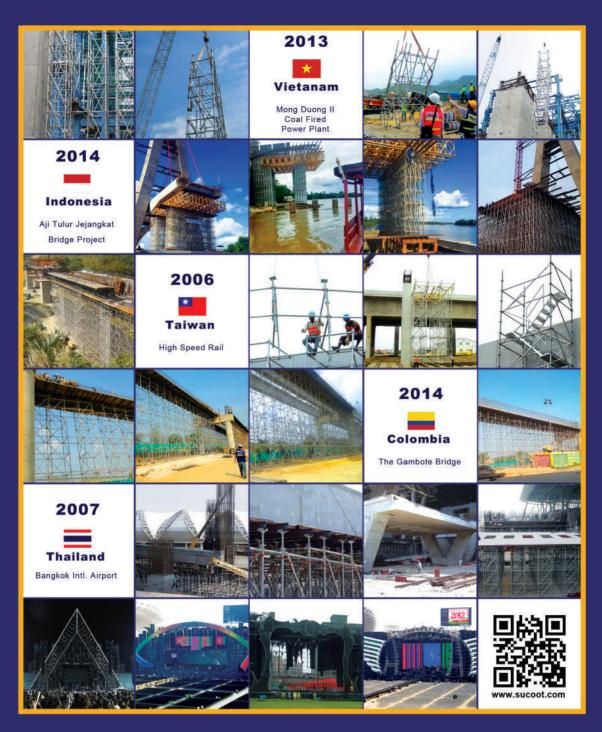
Top Beam to Base Beam Clamp	Description	Weight
	 Connect Top Beam to Superslim / Base beam on wall formwork or crane handled soffit schemes. The Allowable Tension (10.2 kN) and Slip (2.43 kN) figures are superior to GTX clamp and Timber clamp. The Clamp can be put in any position of Top beam. No need to get in from end sides. 	0.17Kg

Top Beam Connector	Description	Weight
0000	 Used to joint Top Beams. Inserted into Top Beams; therefore, there is no extra external volume added and barely can see the gap. Max. Load: 36.52 kN 	2.08Kg

Square Beam Clamp	Description	Weight
	 Used to connect Top Beam to square tube and used snap lock to fix with Top Beam. Fixed with Top Beam and the lighter bearer. 	0.19Kg

Snap L	ock (SL-37S)	Self-tapping Screws			
	Fixed with Square Beam Clamp and Top Beam		Fixed with Plywood and Top		

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