



H20 Slab Table System Assembly and Application Guide

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Product Features

H20 Slab Table formwork system consists of H20 Timber Beams, Euroform Plus steel props, Table Head and Table Clamp. Together with the 18 mm thick plywood sheets, the H20 slab table is designed for concrete slabs up to 45 cm thick. H20 slab tables are designed according to the structure of the building and mainly used for high-rise buildings, podiums, parking and large slab areas. Horizontal movement of the tables is made manually by trolleys while vertical movement is made by crane.

Fixing the Table Heads to the H20 slab table is quite simple. It is fastened to the double primary beams by means of the Table Clamp which is a short piece of Tie Rod and Wing Nut. No drilling, no screwing and no special tool is needed.

The H20 Slab Table Formwork System is designed and manufactured in accordance with BS EN 12812 : 2008, code of practice for Falsework

Important information Before Using the H20 Slab Table

All information provided about maximum loads are only valid for horizontally braced slab table arrangements which are secured against existing structural building parts such as columns, shear and core walls.

The system does not allow transfer of any horizontal loads thru the Euroform Plus steel props of the table system to the ground or floor slab. The top structure of the slab table has to be braced and secured horizontally by adequate measures against existing structural concrete parts by means of wedging or any kind of bracing to walls or columns.

After positioning and securing the H20 slab table, the Euroform Plus steel props have to be aligned vertically in order to avoid any moment coming in to the steel prop.

Eccentric as well as big loads have to be avoided because the Euroform Plus steel props are designed to take centric and/or symmetrical loads only.

For cleaning of self-supporting slab table, only one person at the most can stand on it, with the slab table positioned on a solid and stable ground. Please note that during moving and shifting of the slab tables, no persons, tools, materials, or any other item are allowed to be on the slab table.

Changes in the slab table size require separate structural verification

Important Remarks

The succeeding assembly and application guide has to be carefully read as it contains detailed information on the proper application and handling of the H20 slab table. All instructions concerning technical operation and function have to be observed carefully. Please note that exceptional use of the H20 slab table requires a separate design calculation.

In order to ensure a technical and safe use of our product, all relevant national safety rules and regulations and safety instructions of national institutes and/or local authorities have to be observed. In general, only undamaged material and components which are in proper working condition must be used.









H20 Timber Beam H20 Beam 190 H20 Beam 245 H20 Beam 265 H20 Beam 290 H20 Beam 330 H20 Beam 360 H20 Beam 390 H20 Beam 450 H20 Beam 490 H20 Beam 590	Art. No 310011 310012 310013 310014 310015 310016 310017 310018 310019 310020	Weight Kg/pc. 9.12 11.76 12.72 13.92 15.84 17.28 18.72 21.60 23.52 28.32	Protective Cap - Shock resistant, protection against splintering which increases durability Web - 3-ply laminated solid wood panels, best performance, durability Chords - Superior quality selected solid wood with friction fitted finger joints Tested and approved permissible loads: Max. perm. M = 5.00 kNm Max. perm. Q = 11.00 kNm E. I = 500 kNm2 (bending moment)
Euroform Plus 20kN Euroform Plus 20kN 260 (L=1.54 - 2.60m) 300 (L=1.72 - 3.00m) 350 (L=1.98 - 3.50m) 400 (L=2.24 - 4.00m) 500 (L=3.00 - 5.00m) 500 (L=3.05 - 5.50m) Euroform Plus 30kN 260 (L=1.54 - 2.60m) 300 (L=1.72 - 3.00m) 350 (L=1.98 - 3.50m) 400 (L=2.24 - 4.00m)	310031 310032 310033 310034 310036 310035 310037 310038 310039 310040	12.7 15.8 19.2 22.7 28.7 32.3 16.03 18.50 22.70 26.00	With quick -release bolts for rapid lowering by 2 mmThe inner and outer tubes, including the threads, are hot-dip galvanized steel which ensures the quality and high durability of tubular steel props from GFT



Table Head The Table Head is directly fastened to the base or head plate of the Euroform Plus steel prop by means of 2 Bolts M12 x 30 with Nut.	Art. No 300021	Weight Kg/pc.	
Table Clamp Used as a fixing device for primary beams. It is placed into the Table Head and ensures a tension resistant connection to the Euroform Plus steel prop.	300022	0.8	
Connection Angle 400 Used for connecting primary and secondary beams of the decking structure. Fastening is done by means of double-headed nails.	300020	0.8	
Tripode Stand Using the Tripod Stand, the stability of high and self-supporting slab tables can be improved during erection and positioning. The Tripod Stand's height is 83 cm.	310121	11.2	
Bracing Clamp If required, use this Bracing Clamp for bracing, us- ing boards for stabilizing high and self-supporting slab tables during erection (max. size of board: 3x12 cm).	310129	1.6	



Crane Hook Four Crane Hooks have to be always fixed to the primary beam ends for lifting the table. The 4-way crane tackle is to be fastened to these hooks for shifting the H20 slab table.	Art. No 300015	Weight Kg/pc. 7.2	
T-Bolt For fixing and securing the Fork Head to the inner tube of the Euroform Plus steel props.	340172	0.1	15 dia.
Toe Board Retainer Slipped on the Railing Post before inserting it into the H20 Base Shoe. The Toe Board Retainer se- cures and positions the Toe Board.	310156	0.4	
Bolt M 12x30 with Nut	490096	0.2	
H20 C-Hook Used for carrying and moving H20 slab tables on the construction site by crane. The H20 C-Hook has a maximum load capacity of 1.2 Tons (12 kN) and is simply attached to the H20 slab table.	300018	800.0	







GFT Safety Mesh Used for temporary edge protection as an alterna- tive to board railing. The GFT Safety Mesh is a light- weight and versatile barrier which provides hard- mesh coverage with impact absorbing capacity.	Art. No 300025	Weight Kg/pc.	
GFT Safety Railing Post - C Used with Bolt Socket C and has a height of 135 cm and weighs 2.1 kg. The railing is done by means of Scaffold Tubes and Couplers which must be fixed to the vertical post. The GFT Railing Post C can be used with either railing planks or the GFT Safety Mesh.	300028	2.10	
Bolt Socket - C Used as a holding device for the Safety Railing Post on a horizontal surface. It must be fixed to the concrete slab using Bolt.	300026	1.00	



Dimension of Sample H20 Slab Table



Load per steel prop (A):

Slab thickness t (cm)	Steel prop load A (kN)
10	10.63
15	14.00
20	16.88
25	20.25
30	22.56
35	24.31
40	27.75
45	31.19

The above mentioned figures are only valid for a table top structure which is wedged and braced against existing structural concrete parts (walls, columns) and properly fixed against horizontal movement.



Load assumption:



Permissible loads for steel props 20-260, 20-300, 20-350, 20-400, 20-500 and 20-550

permissible prop loads always 20kN maximum

Tab	le	Α
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GFT - Euroform Plus steel props

permissible prop loads [kn] for use in system-bounded arrangement for slab												
Designation L _{min} - l _{max}	20 · 1.54m	20 - 260 20 - 300 20 - 350 20 - 40 1.54m - 2.6m 1.72m - 3.00m 1.98m - 3.50m 2.24m - 4		20 - 300 1.72m - 3.00m		20 - 300 m 1.72m - 3.00m		400 - 4.00m	0 20 - 500 00m 3.00m - 5.00m			550 - 5.50m
position of in- ner tube (IT) L [m]	Outer Tube Bottom	Inner Tube Bottom	Outer Tube Bottom	Inner Tube Bottom	Outer Tube Bottom	Inner Tube Bottom	Outer Tube Bottom	Inner Tube Bottom	Outer Tube Bottom	Inner Tube Bottom	Outer Tube Bottom	Inner Tube Bottom
1.50												
1.60	27.00	27.00										
1.70	25.80	27.00										
1.80	24.30	27.00	38.00	38.00								
1.90	23.30	27.00	38.00	38.00								
2.00	22.30	27.00	35.00	38.00	27.00	27.00						
2.10	22.00	27.00	32.00	38.00	27.00	27.00						
2.20	21.60	27.00	30.50	38.00	27.00	27.00						
2.30	21.00	27.00	29.00	38.00	27.00	27.00	30.00	30.00				
2.40	20.50	26.00	28.00	38.00	27.00	27.00	30.00	30.00				
2.50	20.30	24.00	27.00	38.00	27.00	27.00	30.00	30.00				
2.60	20.00	24.00	26.00	35.00	27.00	27.00	30.00	30.00				
2.70			25.00	32.00	27.00	27.00	30.00	30.00				
2.80			23.50	29.00	27.00	27.00	30.00	30.00				
2.90			22.00	27.00	27.00	27.00	30.00	30.00				
3.00			20.00	24.00	27.00	27.00	30.00	30.00	38.00	38.00	38.00	38.00
3.10					27.00	27.00	30.00	30.00	38.00	38.00	38.00	38.00
3.30					26.50	27.00	30.00	30.00	38.00	38.00	38.00	38.00
3.40					25.00	27.00	29.35	30.00	38.00	38.00	38.00	38.00
3.50					20.00	27.00	29.10	30.00	38.00	38.00	37.50	38.00
3.60							27.05	30.00	37.50	38.00	37.50	38.00
3.70					i.		26.00	30.00	37.50	38.00	37.50	38.00
3.80			T	- 1 f			24.50	30.00	37.50	38.00	37.50	38.00
3.90						ĺ	23.50	28.00	37.50	38.00	37.50	38.00
4.00							22.00	26.00	37.50	38.00	37.50	38.00
4.10							20.00	24.00	37.00	38.00	37.00	38.00
4.20									37.00	38.00	36.50	38.00
4.30			91						35.50	38.00	36.00	38.00
4.40			- T						34.00	38.00	34.00	38.00
4.50									32.50	38.00	32.50	38.00
4.60			. II.		í — —				31.00	38.00	31.82	38.00
4.70				_ 4					29.50	35.50	29.50	36.00
4.80				-01					27.00	33.50	27.00	34.00
4.90				_					26.00	31.00	25.50	31.50
5.00				- 1		0			20.00	29.50	25.00	30.00
5.10			. ▲	- 1		Outer Tu	be Botto	m			24.50	28.00
5.20				- 1		lungs T	h a D - 44				23.50	27.00
5.30						inner Iu	De Rottol				22.70	20.00
5.40				-	E						21.50	24.00
0.00											20.00	23.00



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Permissible loads for steel props 30-260, 30-300, 30-350 and 30-400

permissible prop loads always 30kN maximum

		permiss	sible prop	GFT - E loads [kn]	Eurofor] for use ir	m Plus	s steel bounded a	props arrangem	ent for slab	
Designation L _{min} - l _{max}	30 - 1.54m	- 260 - 2.60m	30 - 1.72m	300 - 3.00m	- 30 - 1.98m	350 · 3.50m	30 - 2.24m	400 - 4.00m		
position of in- ner tube (IT) L [m]	Outer Tube Bottom	Inner Tube Bottom	Outer Tube Bottom	Inner Tube Bottom	Outer Tube Bottom	Inner Tube Bottom	Outer Tube Bottom	Inner Tube Bottom		
1.50	Вошот	Бощот	Бошотт	Bollom	BOLLOIN	Bollom	Вошот	Bollom		
1.60	32.00	33.00								
1.70	32.00	33.00								
1.80	32.00	33.00	36.00	36.00						
1.90	32.00	32.00	36.00	36.00						5
2.00	32.00	32.00	36.00	36.00	48.00	48.00				
2.10	32.00	32.00	36.00	36.00	48.00	48.00				
2.20	32.00	32.00	36.00	36.00	48.00	48.00				
2.30	31.50	32.00	36.00	36.00	48.00	48.00	36.00	36.00	-	
2.40	31.00	32.00	35.50	36.00	48.00	48.00	36.00	36.00		
2.50	31.00	32.00	35.00	36.00	46.50	48.00	36.00	36.00		
2.60	30.00	32.00	34.50	36.00	45.50	48.00	36.00	36.00	*	
2.70			34.00	36.00	44.00	48.00	36.00	36.00		
2.80			33.00	36.00	42.50	46.50	36.00	36.00		
2.90			32.00	36.00	41.50	46.00	36.00	36.00		
3.00			30.00	36.00	40.50	44.00	36.00	36.00		
3.10					39.00	43.00	36.00	36.00		
3.20					37.00	40.50	36.00	36.00		
3.30					34.50	35.50	36.00	36.00	THE REAL PROPERTY AND A DECIMAL OF A DECIMAL	
3.40					32.50	35.05	36.00	36.00	41173	
3.50					30.00	32.00	36.00	36.00		
3.60							36.00	36.00		
3.70							36.00	36.00		
3.80							36.00	36.00	100	
3.90							33.00	36.00		
4.00							30.00	36.00		
4.10										
4.20										
4.30										
4.40										
4.50										
4.60					C	Duter Tub	e Bottom	י <u> </u>		
4.70										
4.80					I	nner Tub	e Bottom	<u> </u>		
4.90										
5.00										
5.10										
5.20										
5.30										1
5.40									41	
5.50										

Table B



Assembly and Dismantling of the Table Head

The Table Head can be quickly and simply assembled & dismantled by loosening the 2 Bolts M12 x 30. The threaded rods of the Table Clamp are positioned between the double H20 primary beams and properly tightened to the Table Head by means of the nuts.

No holes have to be drilled and no special tools for erection and dismantling are needed.

The Table Head allows connection to all H20 Timber Beams with widths of 8 cm and height of up to 24 cm (when using Lattice Girders as primary beams). The required distance between the double beams must be at least 3 cm.



The Table Head is directly fastened to the base or head plate of the Euro steel prop by means of 2 Bolt M12 x 30 with Nut.



After placing the primary beams into the Table Head, a tension resistant connection to the Euro steel props is made using the Table Clamp. The Table Clamp is tightly fixed to the Table Head.



By mounting the Table Head to the Euro steel prop as illustrated above, a safe and rigid connection between the H20 slab table structure and the Euro steel prop is achieved.



Moving the H20 Slab Table by Table Shifting Carriage

The H20 Slab Table can be moved horizontally by means of the Table Shifting Carriage. For safe moving and lifting of the H20 slab table, the Table Shifting Carriage should be positioned at the center, underneath the H20 slab table.

The two supporting arms are moved by the winch from below the double H20 Timber Beam which serves as main guide.

Once the H20 Slab Table rests on the Table Shifting Carriage, the Euroform plus steel prop can be released and shortened for moving the H20 slab table easily.

The standard Table Shifting Carriage is used for heights of 1.90 m up to 3.20 m.





The exterior slab edges are secured by means of H20 Base Shoe and Safety Post to provide protection from objects falling from the H20 slab table.

The H20 Base Shoe can be fixed to the edges of the H20 slab table as illustrated.

The H20 Base Shoe is fixed to the secondary beams with a maximum distance of 2.00 m. The Safety Post with the Toe Board Retainer are fixed to the H20 Base Shoe while the wooden boards or GFT Safety Mesh serves as railing.



Shifting the H20 Slab Tables by H20 C-Hook

Moving and carrying of the H20 slab table is considerably simplified on site by using the H20 C-Hook. The H20 slab tables are shifted in horizontal or vertical position into the next position of application.



The dimensions of the H20 C-Hook have been designed based on the H20 slab table size. The H20 slab table can be lifted from either the short or long side. By conducting trial lifts on site, an ideal position of the H20 slab table can be achieved by selecting the correct suspension points for the crane ropes.

The H20 C-Hook enlarges the clear height in order to strike H20 slab tables in lower stories which has to remain in concrete position for a longer curing time.

The total load capacity for the crane is 2 Tons = 20 kN. This is because the H20 Crane Hook weighs .8 Tons = 8 kN and its load capacity is 1.2 Tons = 12 kN.





The Crane Hook has to be fixed to the primary beam ends and secured by means of an integrated locking pin. Four Crane Hooks are always required whereby the crane rope can be fastened for moving the H20 slab table. The Crane Hook is used for the following situations:

- A. Loading and unloading the truck.
- B. Assembly and dismantling of steel props.
- C. Moving H20 slab tables on the job site.

Allowable loading capacity:

3.0 kN per Crane Hook



Connection is made by pinning the Crane Hook to the drilled hole in the web of the primary beam.



Locking pin while being inserted Locking pin in final position.

The locking pin has to be operated so that the safety cam disappears in the hole provided. After inserting, the locking pin handle must be in a vertical position.

- A. The maximum spreading angle of the crane rope is 60°.
- B. The Euroform Plus steel props must be removed before stacking the H20 slab tables.
- C. Stack H20 slab tables only on even, solid and loadable ground.
- D. Stack a maximum of 6 H20 slab tables one on the top of the other.
- E. To avoid damaging the plywood sheets when stacking, the Table Heads have to be covered with small plywood strips as pads for protection.
- F. The Crane Hook used for lifting and transporting should always be connected to the H20 slab table top. The H20 slab tables must be moved one by one.







- A. All the Shop drawing, Technical data & the Statical calculation will be Submitted by GFT in accordance with the structural drawing project requirement
- B. The site erection should be done as per GFT's shop drawing and shall be supervised and inspected by GFT's formwork specialist
- C. The spacing and positioning of the Formwork material are arranged based on the statical requirements and as shown in the GFT's execution drawing & Calculation



Formwork Layout using H20 Slab Table System





Engineering, Design & Drawings





Engineering, Design & Drawings







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