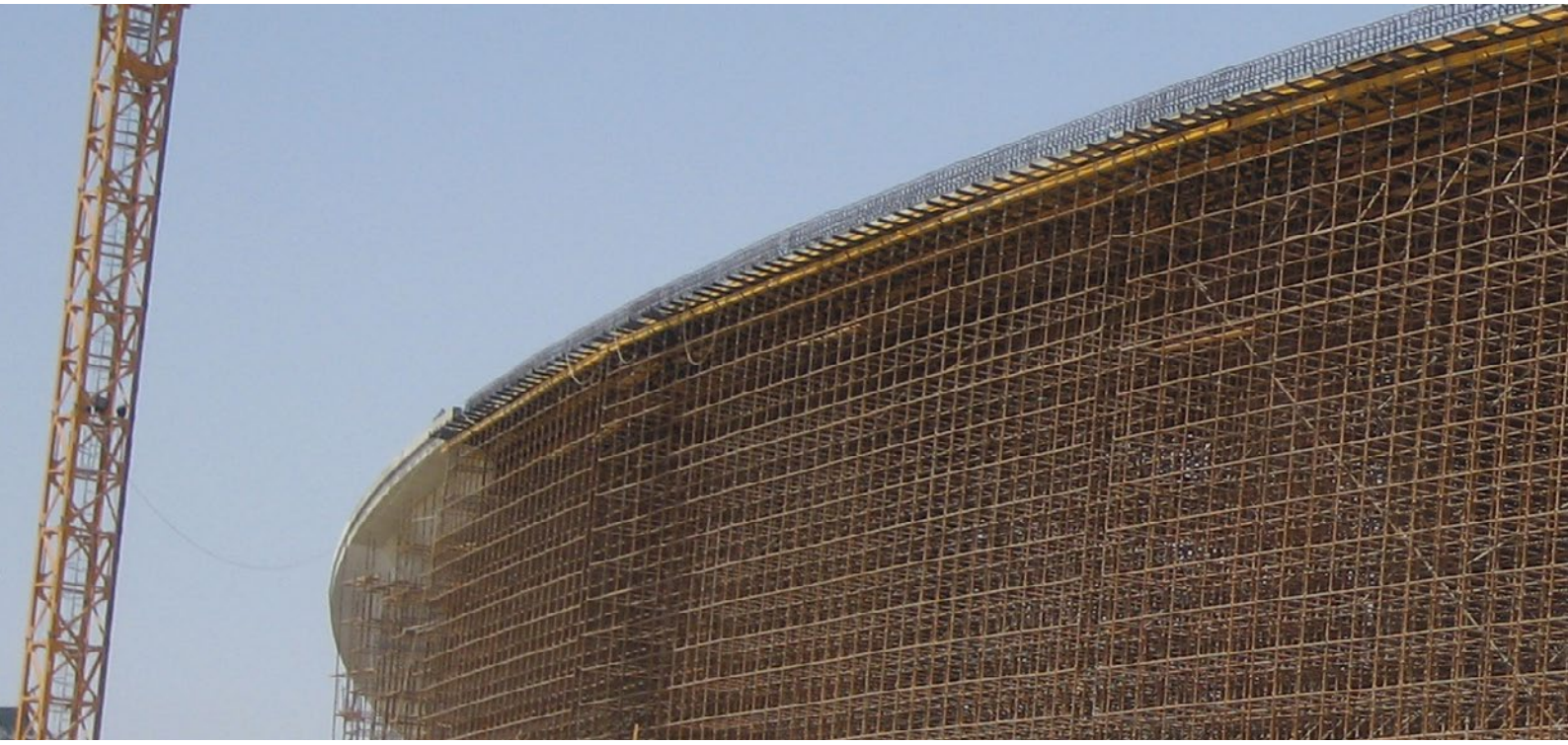
K H K SCAFFOLDING

& FORMWORK LTD. L.L.C

K-Lock Slab Formwork



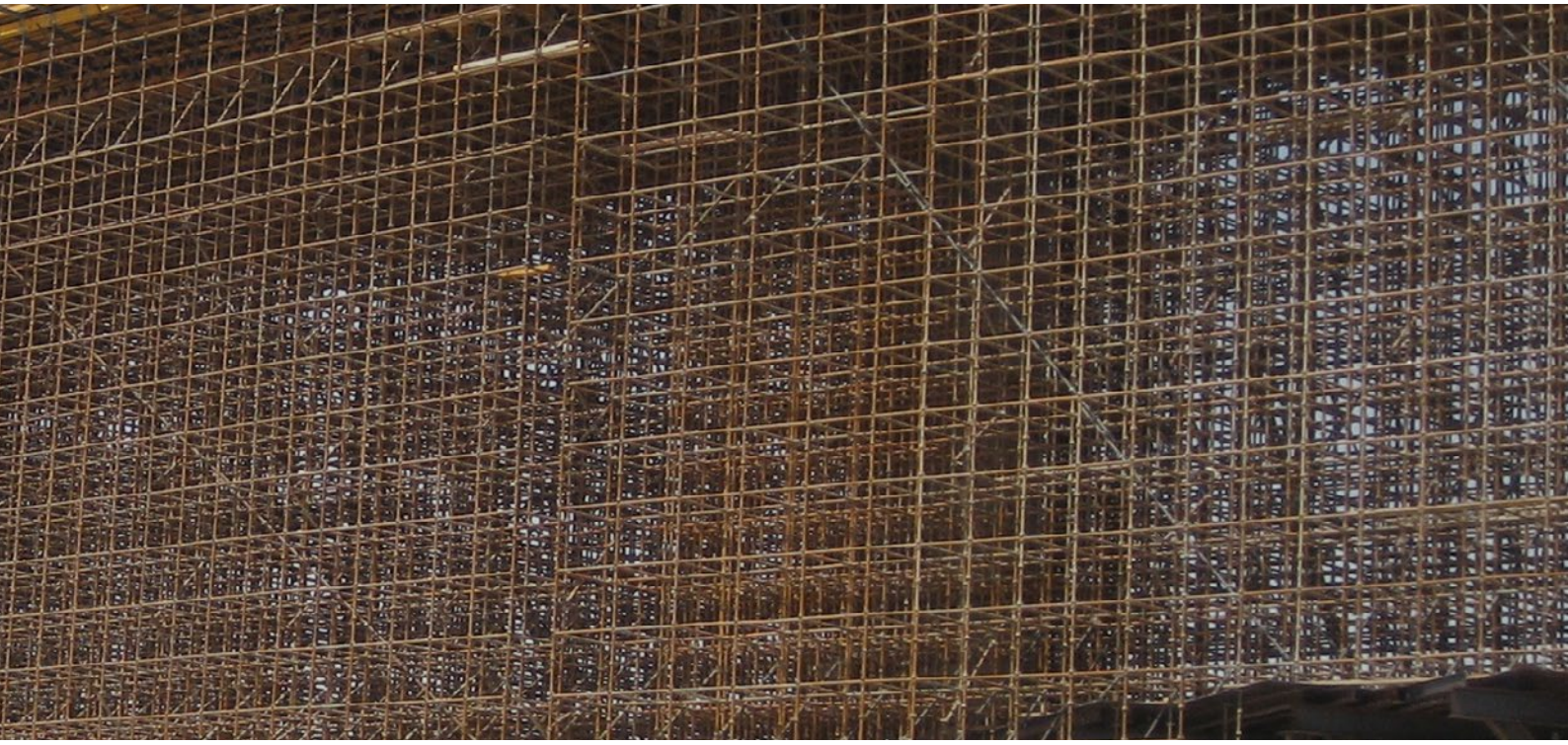
OUR PROFILE

Established in 1991, KHK Scaffolding & Formwork LLC has become a leading manufacturer and supplier of scaffolding, formwork, steel pipes and Tube products from GCC Region. Relying on top quality and best turnaround delivery time, it's wide range of products and services command high praise and acclaim from the reputed customers around the world.

KHK is the flagship company of UAE based Taurani Group of Industries, a prestigious business house, well recognized for its consistency and dependability as one of the most successful conglomerates in United Arab Emirates.

The office-cum-factory premises at Ajman covers an area 75,000 sq/mt, charged by highly motivated and efficient team of 1200 employees and is equipped with most advanced and integrated technology and machines to manufacture wide range of scaffolding, formwork, steel pipes and tube products strictly conforming to customer's designs requirements.

Carefully designed, high precision products of KHK are being exported for the last 25 years to more than 50 countries mainly in GCC, Middle East, Europe, America, Asia, Africa and Australia. The professional and experienced sales force of KHK, besides supplying the world class products, also support the global customers with their valuable services and technical guidance which in turn assures the contractors to deliver the projects in utmost secure and economical manner, maximizing their value addition. KHK always believes in testing its limits to the maximum by exploring, experimenting and establishing innovative products carrying lateral and horizontal expansions to meet diverse and challenging demands.



OUR VISION

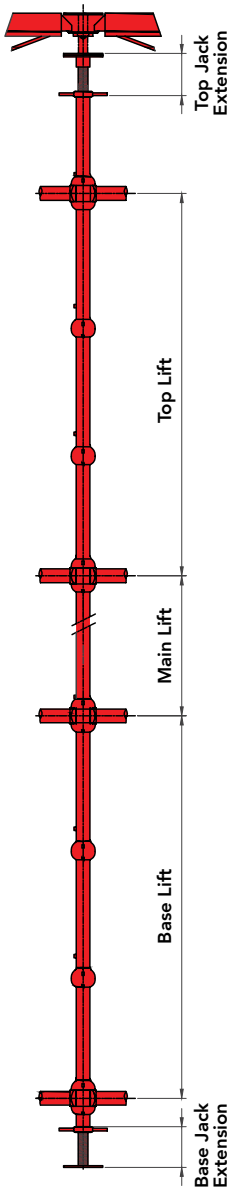
'KHK' aspires to be the most trusted brand to all its worldwide customers and supply chain partners in Scaffolding and Formworks industry, embarking on excellence, relevance & value additions to all its offerings, with full Corporate and Social Responsibilities.

OUR MISSION

- Increasing the production capacity by 50% through process re-engineering by 2022.
- Augmentation in the sales turnover by 25% year over year.
- Continuous investment in human capital training, upskilling and automation.
- Make work life simpler, productive and customer friendly by implementation of SAP by June 2021
- Integration of processes by implementing SAP by 2021 and improve customer engagements through web portal by 2022
- Support go-green initiative of UAE along with digitalization of operations by 2022

AJMAN : TEL 06-7439013
AJMAN : FAX 06-7439017

K-LOCK TECHNICAL DETAILS
K-LOCK STANDARD:



PERMISSIBLE LOADS ON BASE COMPONENTS

Vertical axial load up to 57kN. The loadings will vary according to the horizontal loads taken into account and the actual extension of the jack required.

K-LOCK SUPPORT GUIDE

For standards at the beginning and end of a row, the loading figures for the top and base lifts have to be reduced by 5%, except if jack bracing is used. This also applies to the use of K-LOCK in towers and single bays.

PERMISSIBLE LOADS ON STANDARDS

The below show the permissible loads per standard for false work structures incorporating suitable bracing. The values apply regardless of the type of formwork supported. However, permissible loads can be influenced by a number of factors. If in doubt, reference should be made to the KHK Design Office.

K-LOCK STANDARDS VARIOUS SIZES:

CODE	SIZE	WEIGHT
KL-001	3.00m	14.80kg
KL-002	2.80m	14.00kg
KL-003	2.70m	13.60kg
KL-004	2.50m	12.40kg
KL-005	2.30m	11.35kg
KL-006	2.00m	10.00kg

CODE	SIZE	WEIGHT
KL-007	1.80m	9.00kg
KL-008	1.50m	7.90kg
KL-009	1.30m	6.55kg
KL-010	1.00m	5.00kg
KL-011	0.80m	4.10kg
KL-012	0.70m	3.80kg

K-LOCK STANDARDS LOADING DATA:

STANDARD LOAD (kN)		
LIFT(m)	1.8m BAYS	2.5m BAYS
1.0	57.0	57.0
1.5	42.0	40.0
2.0	33.0	32.0
2.5	26.0	25.0

STANDARD LOAD (kN)					
BAY (m) / LIFT (m)	0.6	0.9	1.2	1.8	2.5
1.0	57.0	57.0	57.0	57.0	57.0
1.5	50.0	50.0	48.0	42.0	40.0
2.0	38.0	36.0	35.0	34.0	32.0

NOTE:- For practical purposes, divide load in kN by 10 to convert to tonnes or tons

K-LOCK TECHNICAL DETAILS
K-LOCK STANDARD:

The standard is the vertical member of the scaffold with a spigot at one end for accurate alignment. Also available in open end.

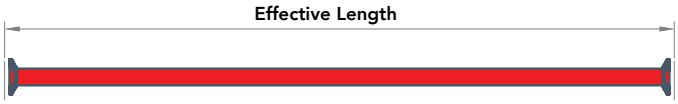
Standards are made from ϕ48.3 x 3.2mm steel tube, all standards incorporate with fixed bottom cups and drop forged sliding top cups.

DESCRIPTION	WEIGHT (kg)
3.0m Standard	14.8
2.8m Standard	14.0
2.5m Standard	12.4
2.3m Standard	11.4
2.0m Standard	10.0
1.8m Standard	9.0
1.5m Standard	7.9
1.3m Standard	6.5
1.0m Standard	5.0
0.8m Standard	4.10

K-LOCK LEDGER:

DESCRIPTION	WEIGHT (kg)
2.5m Ledger	9.2
1.8m Ledger	6.7
1.6m Ledger	6.0
1.3m Ledger	4.9
1.2m Ledger	4.5
1.0m Ledger	3.8
0.9m Ledger	3.50
0.6m Ledger	2.40

The ledger consists of symmetrical forged blade ends for simple erection and complete interchangeability in support structures. They locate in the bottom cups of the standards at platform level. Can also be used as guardrails.



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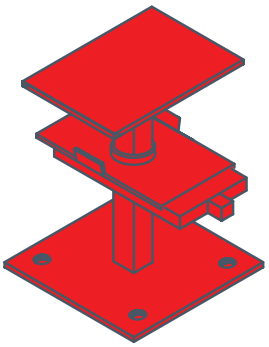
K-LOCK TECHNICAL DETAILS
K-LOCK DROP HEAD:

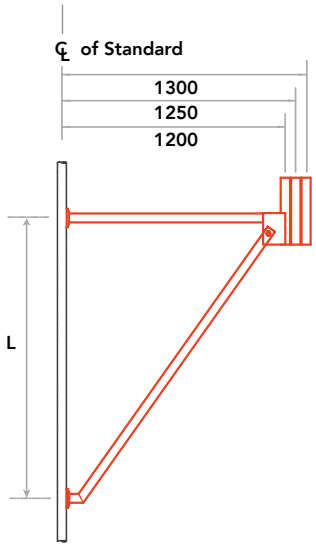
The most important part of shuttering is the drophead. Made with an extra-strong steel wedge KHK's drop head allows the decking beams, infill beams to be lowered at a hammr stroke. The wedge is specially contructed to endure repeated strokes of the hammer.

METRIFORM TYPE



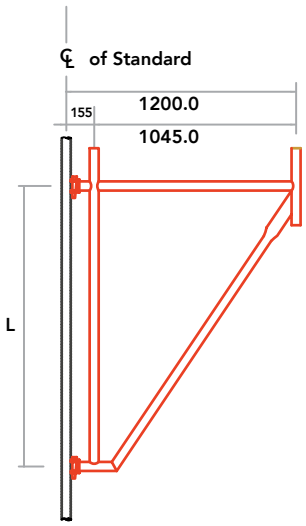
Note: Maximum Axial Load: 40 kN.

CODE	WEIGHT
KL-135	3.00kg



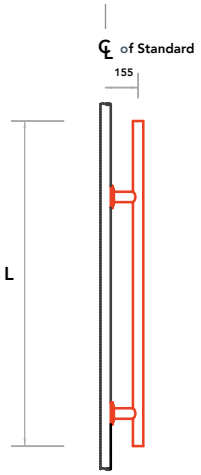
CANTILEVER FRAME

AVAILABLE SIZES:
L: 1.5M / L:1.0M



CANTILEVER BEAM FRAME

AVAILABLE SIZES:
L: 1.5M / L:1.0M



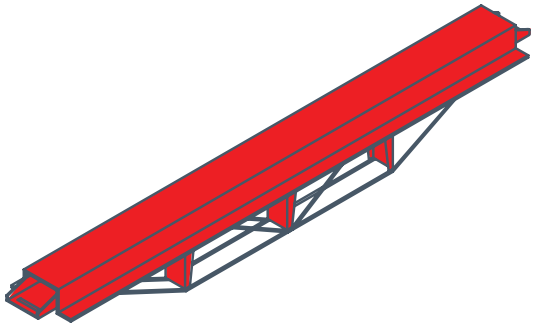
INTERNAL BEAM BRACKET

AVAILABLE SIZES:
L: 1.5M / L:1.0M

DECKING BEAMS

Includes 100mm wide top flange which eliminates the necessity for a plywood infill, so cutting down maintenance cost.

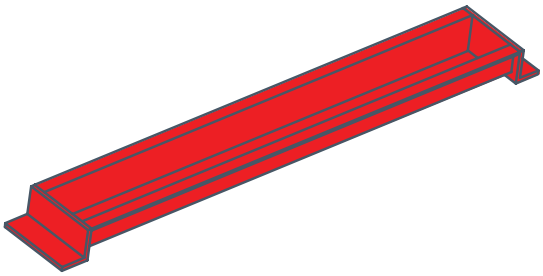
LENGTH (m)	2.5	1.8	1.2
WEIGHT (kg)	26.4	18.0	11.9



INFILL BEAMS

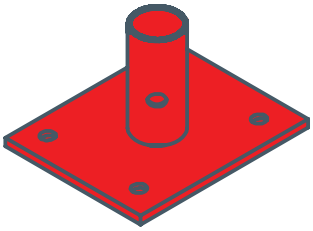
Used to provide skeletal support for plywood decking

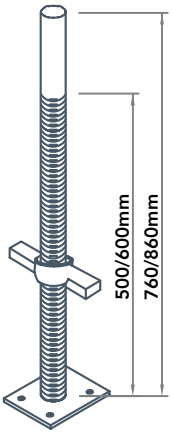
LENGTH (m)	1.7	1.5	1.2	0.9	0.5
WEIGHT (kg)	9.1	8.1	6.5	5.0	3.20



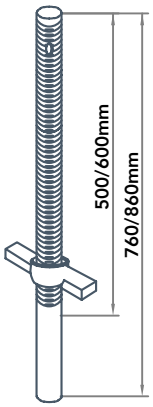
SOCKET BASE (Adaptor)

It provides a base for the universal jack, also connect universal jack to drophead.

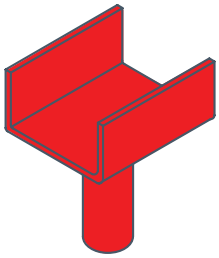




BASE JACK

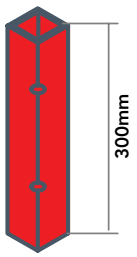


UNIVERSAL JACK



U-HEAD

150X170X5.8
150X200X5.8



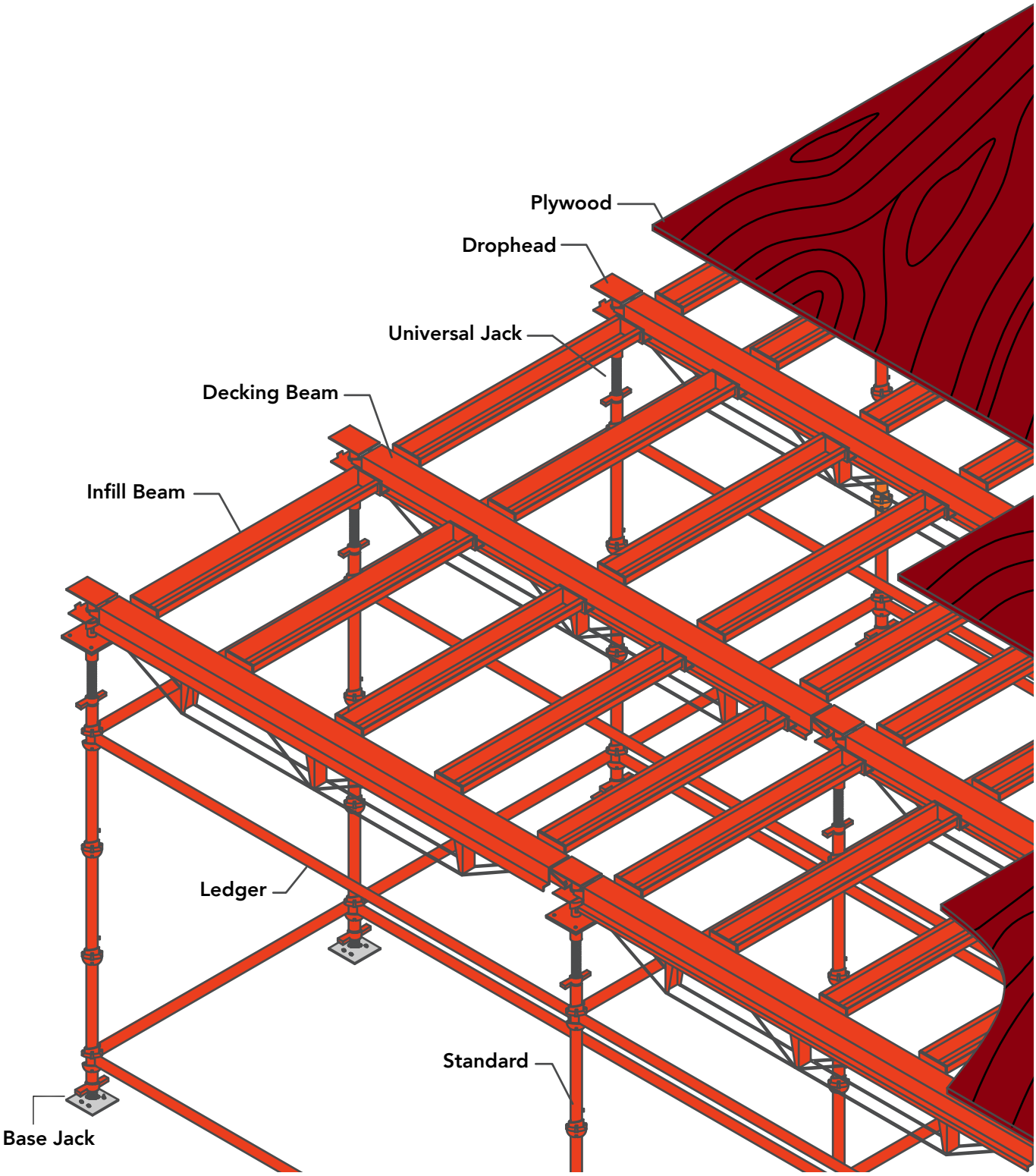
SPIGOT CONNECTOR

BOLT & NUT

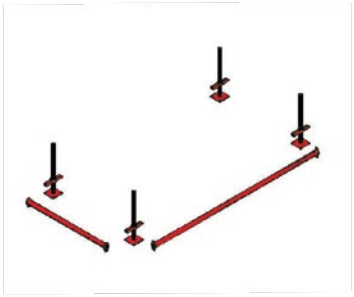
AJMAN : TEL 06-7439013
AJMAN : FAX 06-7439017

K-LOCK TECHNICAL DETAILS
K-LOCK DECKING & SUPPORT:

The K-Lock decking systems replaces the primary & secondary timbers in soffit support and provides a flat support grid for decking out with plywood or other suitable materials, labour costs are greatly reduced in conjunction with the speed of construction to provide an echonomical solution to decking problems.



1 Erection Sequence (for 4 standards and beams)



Space out socket bases and stand in jacks if required (plain shank at top)

2

Assemble a standard on a jack and two ledgers at right angles in a lower cup of this standard. Drop the upper cup of the joint over the two blade ends. Do not tighten.

3

Take a second standard and assemble on another jack, fixing the ledger end of the previously assembled into the cup of this standard. Repeat for the third standard to complete a right angled corner.

4

Add the fourth standard and two more ledgers in a similar manner to complete the assembly of 4 standards and 4 ledgers.

5

Add the upper layer of four ledgers and two braces and assemble the upper jacks and drophead assemble on the top of the completed supporting grid.

6

Finally, add the primary beams and infills in the completed support structure and as grids are completed, tighten all joints.

Ajacent supporting grids may be added in a similar way and primary beams and infills added until the required area is completed.

DISMANTLING PROCEDURE

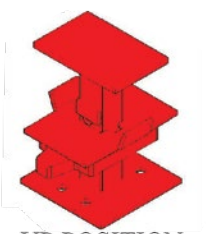
Dismantling follows the same procedure whether the techniques of 'early striking' are followed or not.

The advantages of early striking is that the primary beams and infills may be removed while the concrete soffit remainssupported and completely undistrubed during it's curing period. The primary beams and infills may therefore be re-used this time, thus gaining further concrete production with only and additional set of supporting components.

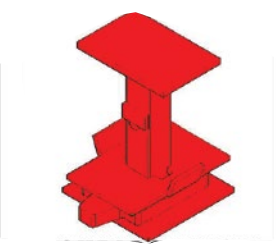
Primary beams and infills may be removed by striking the drophead wedge while the primary head of the drophead remains in contact with the concrete, the striking of the wedge allows the beams to drop about 115mm only giving sufficient clearance for the removal of the infills.

Where the advantages of 'early striking' are taken or not, complete safety in dismantling operations is ensured as primary beams and infills cannot fall to the ground but after striking, must be removed manually.

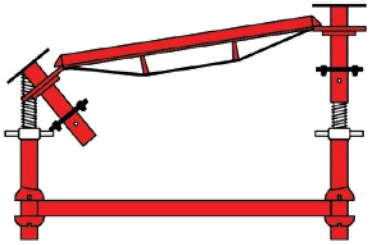
To assemble K-Lock scaffolding & Decking remove the drophead assembly from the jack at one end and connect it to the beam. The completed beam with its drophead can now be raised and dropped over the jack.



Up Position



Down Position



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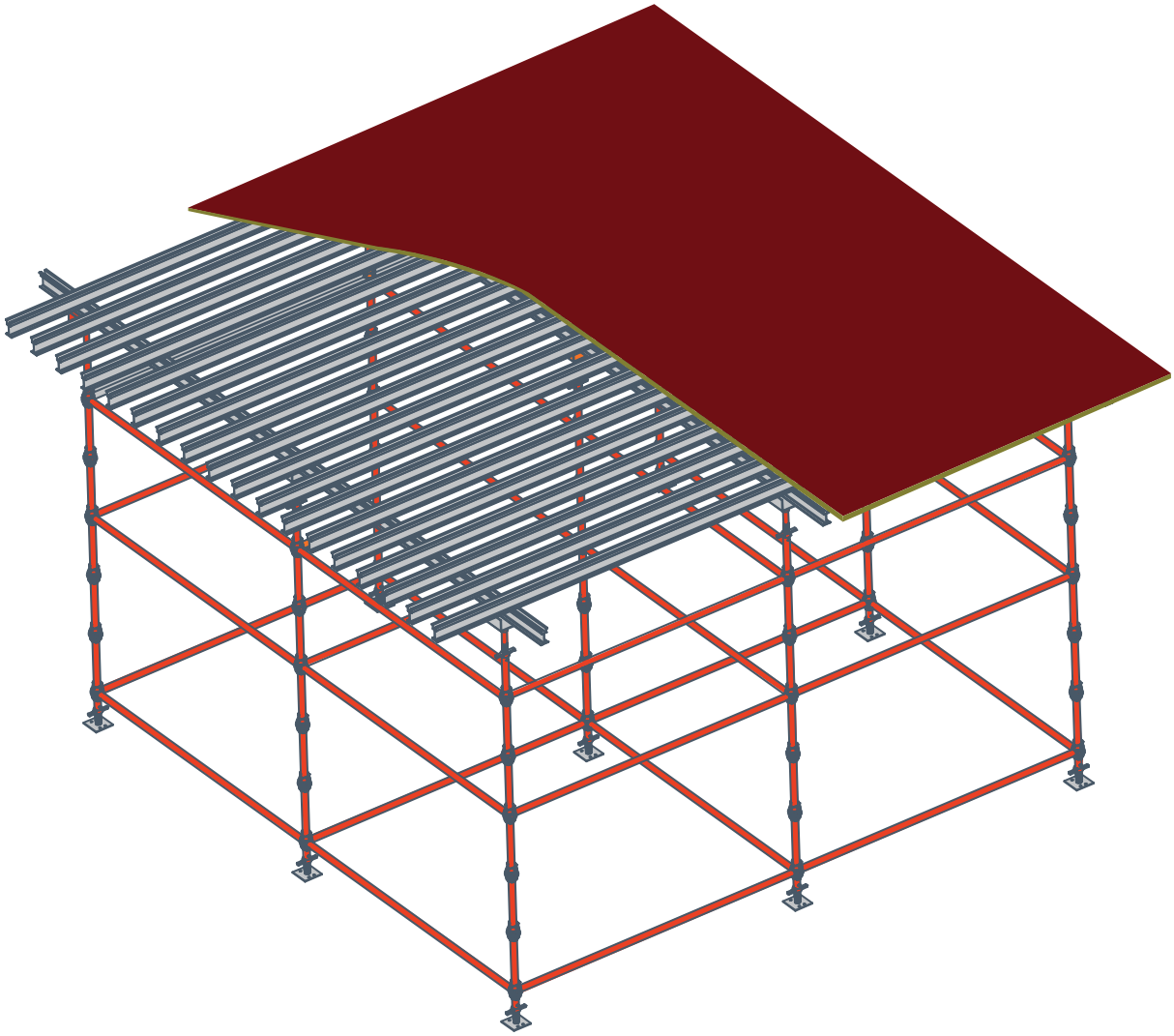
K-LOCK SYSTEM
WITH ALUMINIUM SLAB SYSTEM:

K-Lock combined with Aluminium Beam forms strong, lightweight economical system.
It also reduces waste and site labour costs.



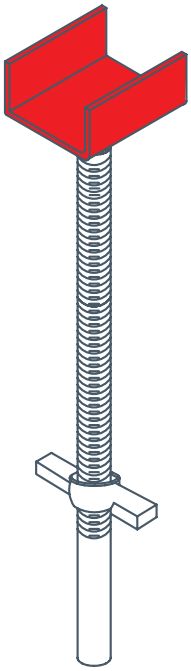
K 6 BEAM

Bending Moment exceeds 6 KN-M
Size: 150 x 80MM
Weight: Only 3.162Kg/ M

K 12 BEAM

Bending Moment exceeds 12 KN-M
Size: 165 x 95MM
Weight: Only 4.750Kg/ M

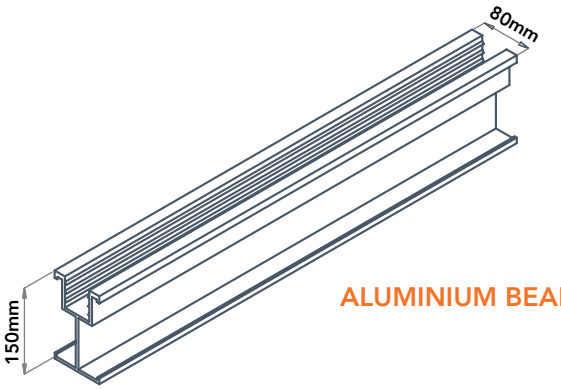
K-LOCK SYSTEM
WITH ALUMINIUM SLAB SYSTEM:



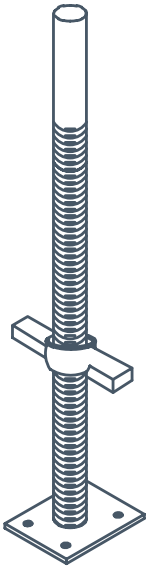
ADJUSTABLE FORKHEAD

K-LOCK STANDARD

K-LOCK LEDGER:



ALUMINIUM BEAM



BASE JACK

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K-LOCK SLAB PROJECTS

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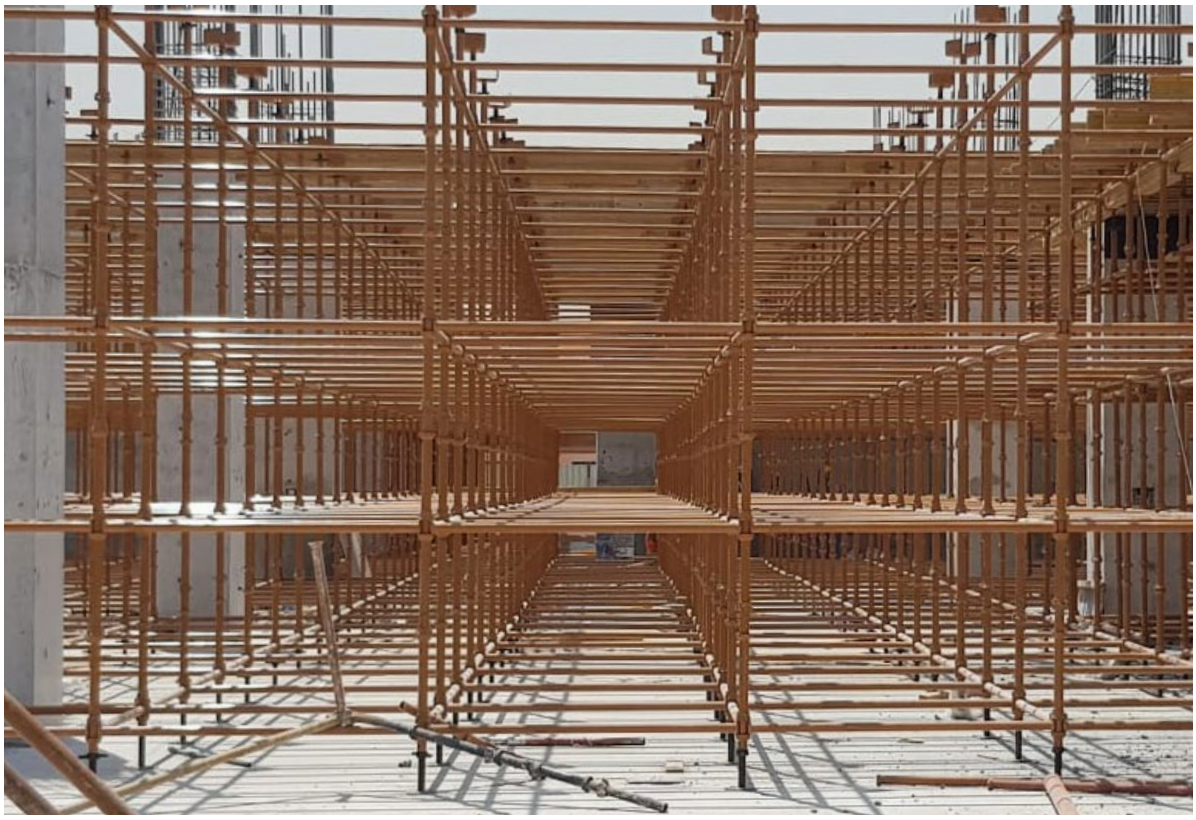

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K-LOCK SLAB PROJECTS

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GROUP PROFILE

TAURANI
HOLDINGS LTD

TAURANI HOLDINGS LTD is a multinational conglomerate headquartered in Dubai, United Arab Emirates. It operates in four continents with more than 10,000 employees worldwide THL was founded in 1976 as a group of manufacturing, trading and servicing companies catering to a vast multitude of sectors across various markets.

With annual turn over of US$200 Million, the group has eventually ventured into every trade arena through well-defined business strategies. An able leadership and a highly dedicated work force across the group are the key elements that engineer its evolution.

As a global business conglomerate, the group's ability to understand, innovate and operate in a multicultural world ensures its long-term sustainability and, specifically, impacts its ability to meet the group's underlined growth trajectory.

GROUP ASSOCIATES

THL PIPE
UTP PIPE
DUCAST
DSS STEEL
DEL-ANI HOLDINGS LTD
BRISKO SCAFFOLDING LTD
WINSTON STEEL
ALKHALEEJ STEEL INDUSTRIES LLC

KHK - Scaffolding & Formwork LLC is at the cutting-edge of technology in scaffolding & formwork system solutions over more than 30 years.

Quality, reliability and timely delivery are our founding principles.

To explore more products and solutions, you may order individual catalogues on;

- **K-RING ACCESS**
- **K-LOCK SLAB FORMWORK**
- **K-LOCK ACCESS**
- **K-STAGE SLAB & ACCESS**
- **FRAMES/TUBES/PROPS**
- **WALL FORMWORK**
- **EN PROPS**

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