

نجم الأفق لتأجير السقالات ذ.م.م.



NAJM AL OFUQ

SCAFFOLDING RENTAL LLC.



WE DEAL IN RENTAL & SALE

Head Office

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www.najmscaffolding.com

ABOUT US

We are a Sharjah based platform organization laid out in 2012

Giving a wide range of Steel/Aluminum Framework prerequisites to the development business and business projects in UAE. We represent considerable authority in selling, recruiting, undertaking contracting position of erection and destroying of platforms.

We can supply the total scope of BS/EN Standard Steel Framework Materials, Cup lock Platform, Aluminum Portable Pinnacles, Casings, Cylinders and adornments.

WHO WE ARE

Najm AL Ofuq SCAFF is a recognized major player providing efficient scaffolding and formwork solutions I through our:

1. Wide-ranging portfolio of systems, products and [accessories
2. State of Art Manufacturing Capabilities
3. Advanced Design Engineering Service and Technical Support Capabilities
4. Value Added Training, inspection and supervision services on site

Our Mission

Our mission is to maintain a close working relationship between client and Najm Al Ofuq Scaffolding & Formwork, Projects Scaffolding by benefitting our client through comprehensive management of scaffolding movement, quality control as well as stable and cost-effective unit rates in a safe and professional manner.

Our Vision

Our vision for Najm Al Ofuq Scaffolding & Formwork is to provide uncompromising scaffolding solutions to the commercial construction industries, by ensuring a strong and knowledgeable support system, passionate workforce as well as quality and cost efficient materials. We are constantly striving for new and innovative ideas to continue the growth and development of our company.

Customer Service:

Najm Al Ofuq Scaffolding & Formwork has built a reputation based on reliability & respected reputation not only in the local area but also the wider area that it serves. One of its strengths is that it always has sufficient stock to undertake any job. We enthusiastically offers a high level of customer service. It develops and presents all its work with the utmost attention to detail, offering a high quality of service, guaranteeing standards and after sales customer care

Technical Support & Services:

We conducting design, Technical Support, Inspection, Sales, Rental, & Labour services for Formwork & Scaffolding System's Erection. Najm Al Ofuq Scaffolding & Formwork. is being managed by highly experienced Engineers and Specialists in the field since several years. Our competent and certified scaffolders, Inspectors and Engineers together makes all our projects very successful and brings us more clients across all emirates in UAE on regular basis.

Drawings and Pricing are available upon request.

Managing Director.

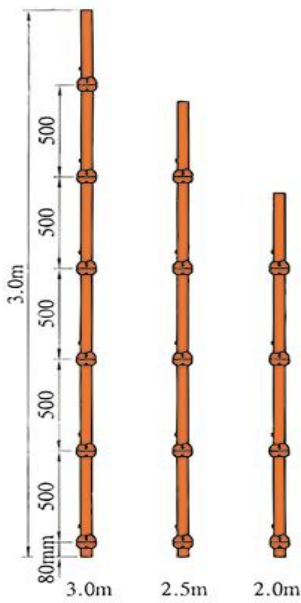
1. STANDARDS

This component is the vertical element in our NAO-Lock System Scaffold. It comes in 9 standard sizes. A joint-Cup is provided at every 0.5m interval in height to take on the horizontal component (Ledger). The top cups are castings made of high-grade steel to allow the rigors of Project Site use. The bottom cups are weld fixed and are made of high grade pressed steel

1. NAO-LOCK STANDARD

Standards

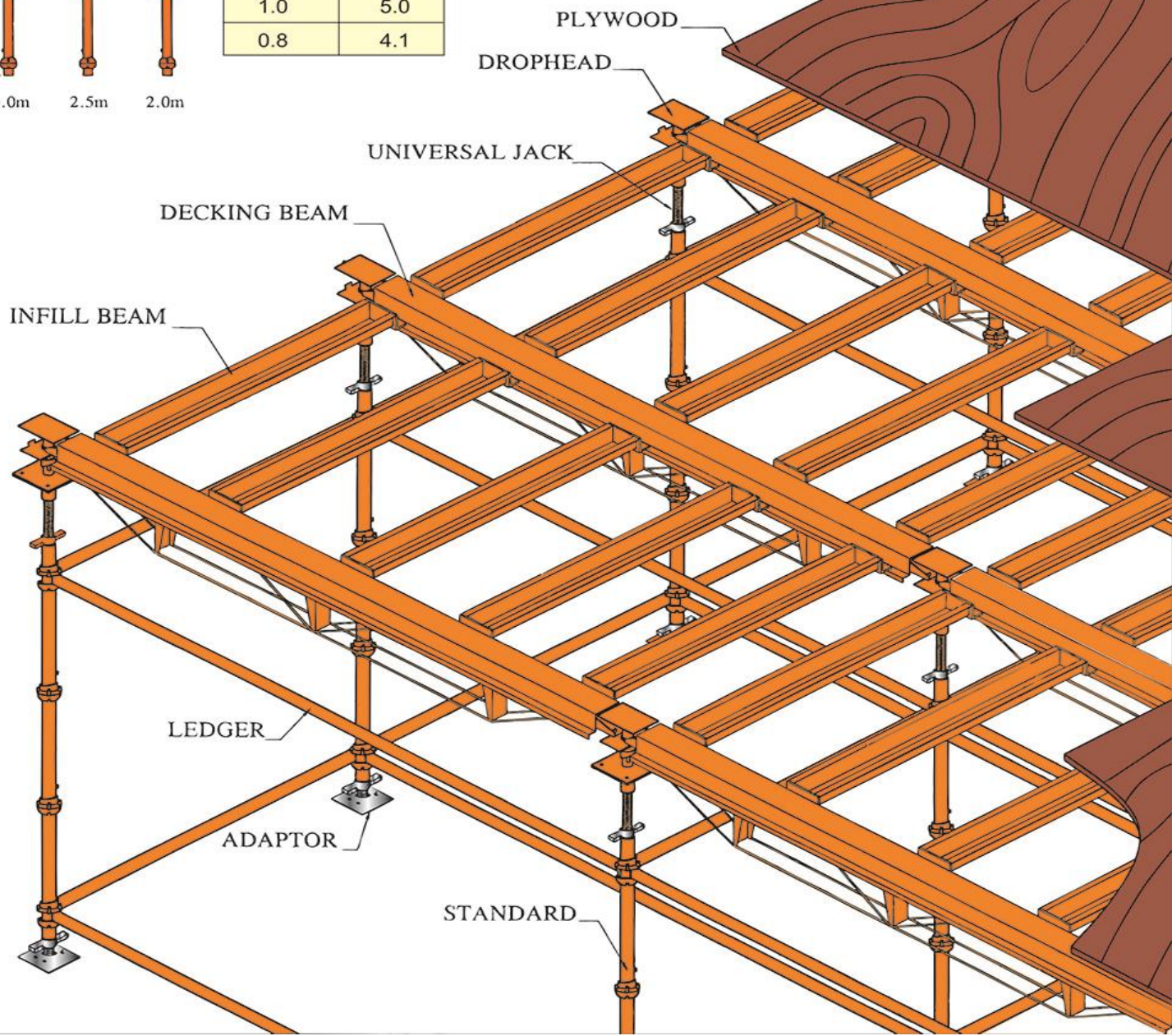
Maximum led load capacity : 57kN



(m)	(kg)
3.0	14.8
2.8	14.0
2.5	12.4
2.3	11.4
2.0	10.0
1.8	9.0
1.5	7.9
1.3	6.5
1.0	5.0
0.8	4.1

Ledgers

All ledgers have identical forged blade ends, with a minimum of projection to avoid damage. Other ladger sizes available are 1.3m, 1.2m, 1.0m, 0.9m



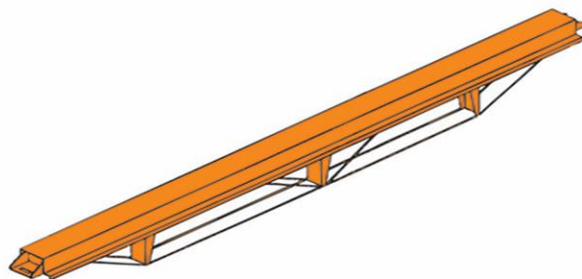
12. DECKING BEAM

This Primary Decking member is light weight due to the use of high-grade steel. Heavy Duty pressings at the ends help it withstand rigors of daily site use. Slots at the ends take on the tongue of the Drop Head. Width of the top flange is 100mm. It comes in 3 standard sizes.

Decking Beams

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

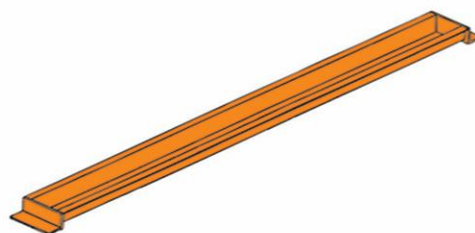
Length (m)	2.5	1.8	1.2
Weight (kg.)	26.4	18.0	11.9



Infill Beams

Using to provide skeletal support for plywood decking

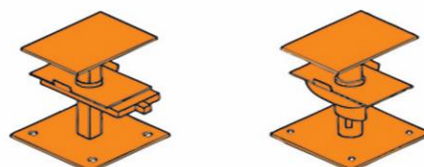
Length (m)	1.7	1.5	1.2	0.9
Weight (kg.)	9.1	8.1	6.5	5.0



Dropheads

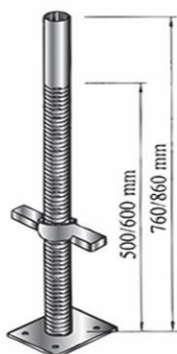
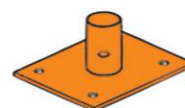
the quick action drophead supplied along with nuts and bolts is designed to fit on standard props or adaptors for cup lock scaffolding.

Maximum axial load: 40kN

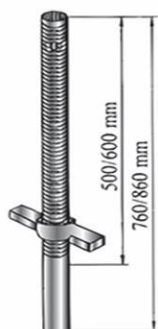


Socket Base (Adaptor)

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



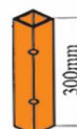
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N A
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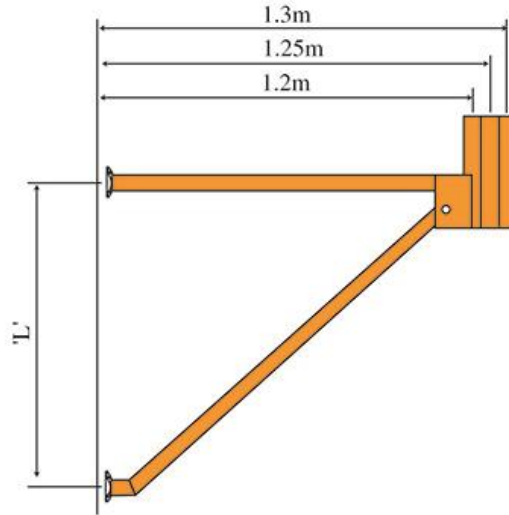
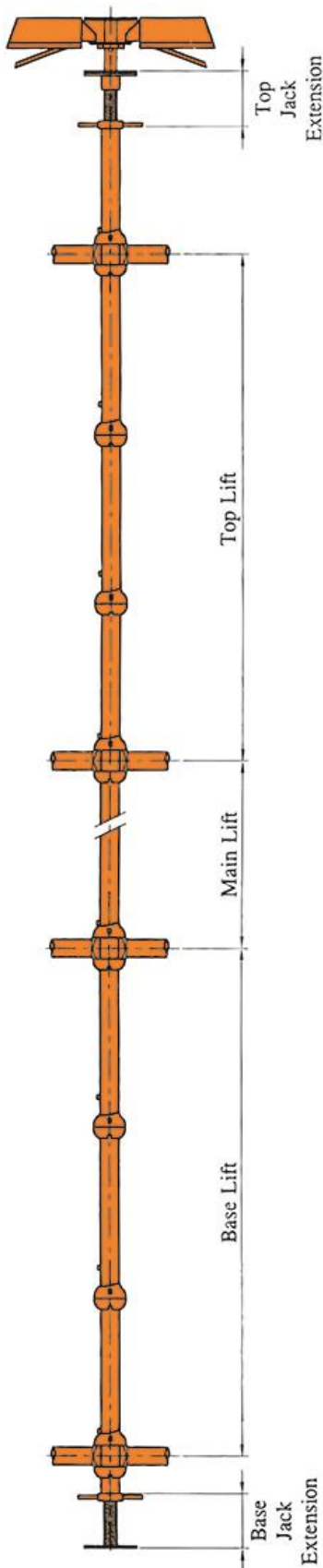
A
150X170X5.8
150X200X5.8



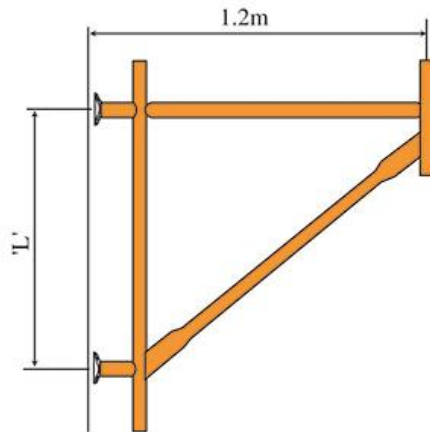
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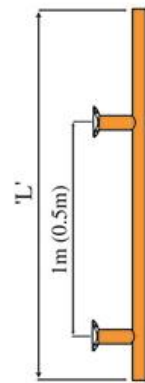
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CANTILEVER FRAME AVAILABLE SIZES: L : 1.5M L : 1.0M



CANTILEVER BEAM FRAME
AVAILABLE SIZES: L : 1.5M L : 1.0M



INTERNAL BEAM BRACKET
AVAILABLE SIZES: L : 1.5M L : 1.0M

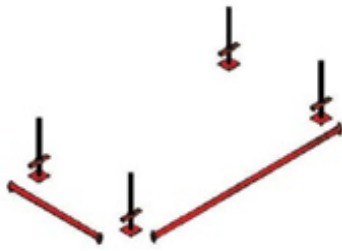
PERMISSIBLE LOADS ON BASE COMPONENTS

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. At least two lacing levels have to be used on each standard. When calculating horizontal forces, include wind forces, the effect of eccentricity, and out of plumb (in accordance with British Standard 5975). Take care that the structure is stable in the unloaded condition, especially if towers or narrow structures are used. All standards should be erected plumb. Horizontal forces should be distributed over all standards as evenly as possible. Sound footings should be provided to prevent settlement of the standards.

1. ERECTION PROCEDURE

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



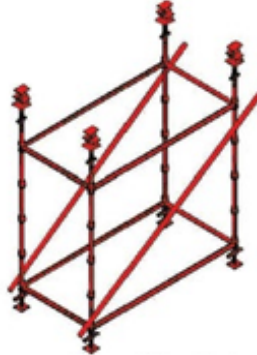
Take a second standard and assemble on another jack, fixing the ledger end of the previously assembled cup of this standard. Repeat for the third standard to complete a right-angled corner.

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 assembly 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.

Adjacent 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 advantage of early striking is that the primary beams and infills may be removed while the concrete soffit remains supported and completely undisturbed during its curing period. The primary beams and infills may therefore be re-used this time, thus gaining further concrete production with only an additional set of supporting components.

Primary beams and infills may be removed by striking the drophead wedge while the primary head of the drop head.

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.

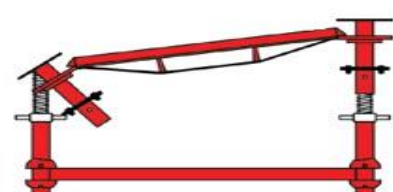
To assemble NAO-Lock scaffolding & Decking remove the drophead assembly from the jack at one end and connect it to the beam. The completed beam with its drophead can now be raised and dropped over the jack.



Up Position



Down Position



2. LEDGERS

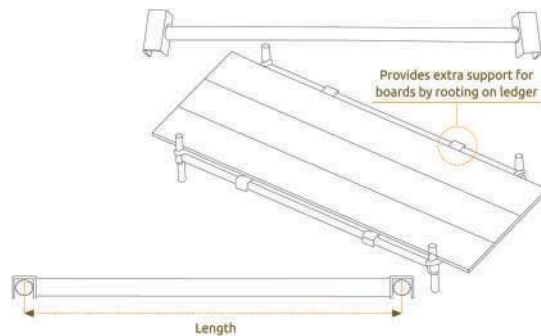
The ledger consists of symmetrical forged blade ends for simple erection and complete interchangeability in support structures. They are located in the bottom cups of the standards at platform level. Can also be used as guardrails.

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



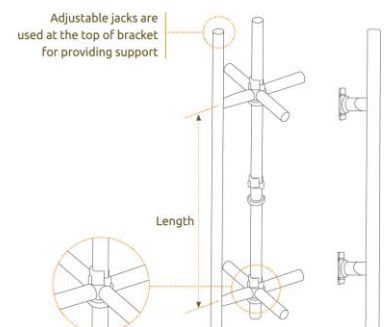
3. INTERMEDIATE TRANSOM

In 'Access' applications where the Scaffold System is utilized for providing access platforms for personnel to work on heights or for to work on the façade of a building or structure, this horizontal element is provided to support the wooden Scaffold Board in the intermediate locations (Between longer runs of Ledgers).



4. BEAM BRACKET

This component is used in conjunction with the Standard to eliminate the use of Props in situations where the minimum distance to support grids is greater than standard Ledger sizes. It also allows accommodation of Drop Beam support within a supporting grid.

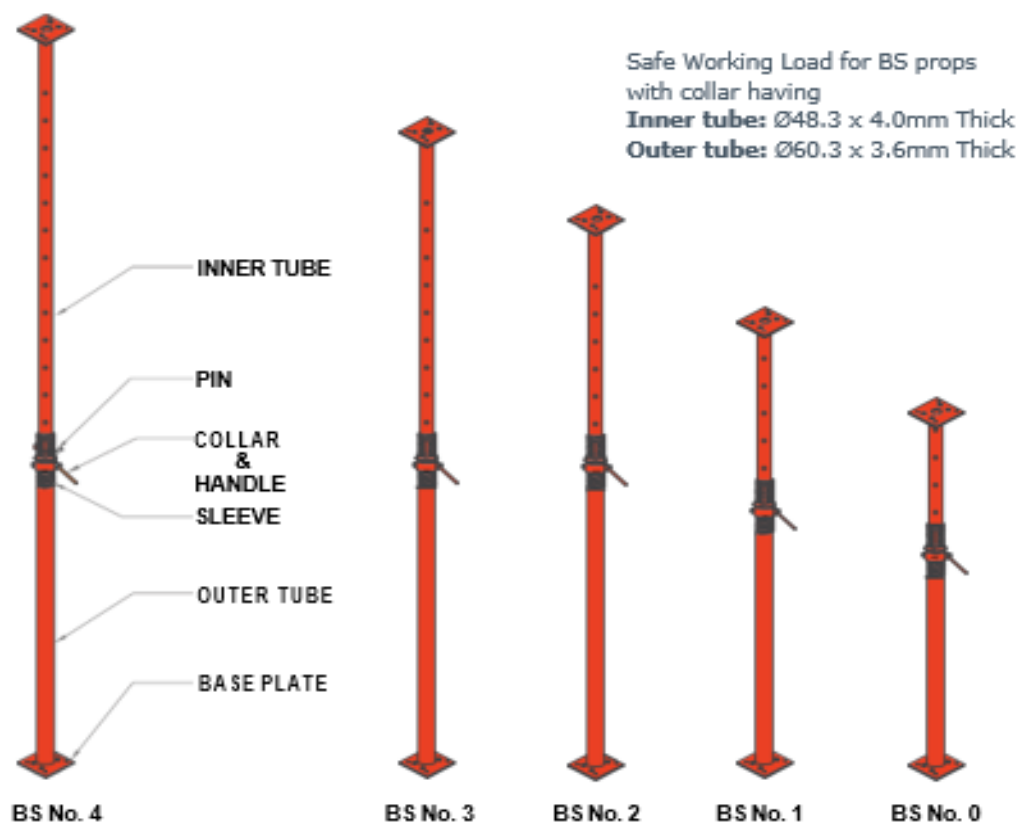


PROPS TECHNICAL DETAILS

BS PROPS:

- BS Props fully confirm to the requirements of BS 4074: 1982 and have been tested in accordance with BS 5507 Part 3: 1982.
- BS Props are manufactured from high quality material with a Powder coated painted finish for long life and are highly resistant to site wear and tear.
- BS Props can be used on all types of building construction or for any type of use where an adjustable load bearing member is required.
- The high tensile steel pin is located through a slot in the outer section and a hole on the inner section for coarse adjustment. The cast collar located below the pin gives fine adjustment for levelling or striking.
- The rolled thread ensures no loss of material or strength at this critical point.

DESCRIPTION	MINIMUM HEIGHT	MAXIMUM HEIGHT	WEIGHT (kg)
BS Prop No. 0	1.07 m	1.82 m	11.0
BS Prop No. 1	1.75 m	3.12 m	16.7
BS Prop No. 2	1.98 m	3.35 m	18.4
BS Prop No. 3	2.59 m	3.95 m	20.2
BS Prop No. 4	3.20 m	4.87 m	24.2

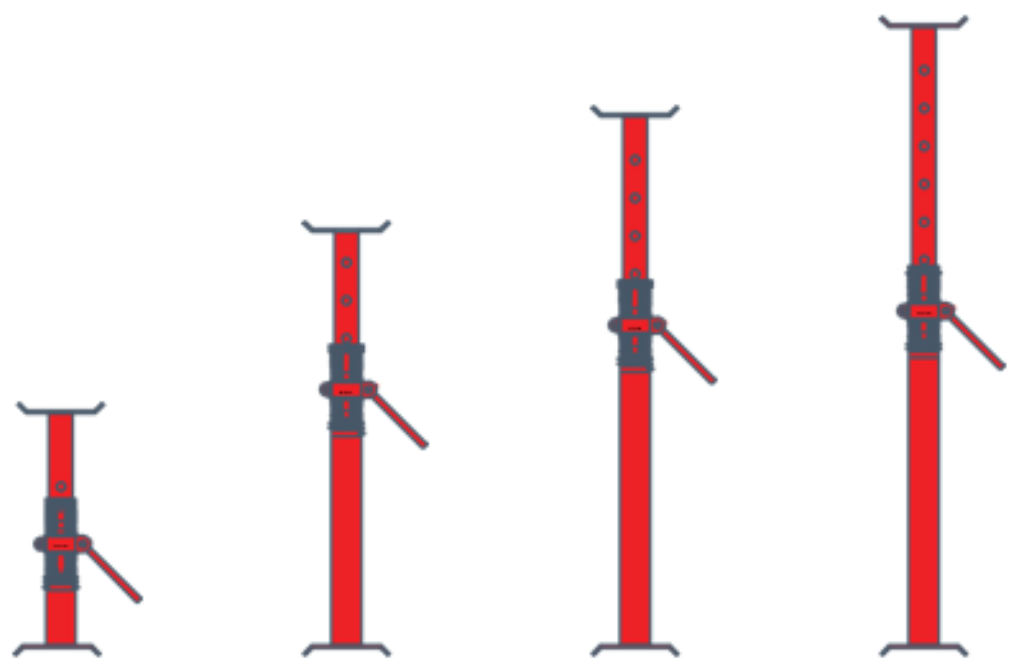


PROPS TECHNICAL DETAILS

TRENCH STRUTS:

Trench Struts are of similar design to BS Props but have upturned corners on the end plates to give a 'claw' grip to timber walings.

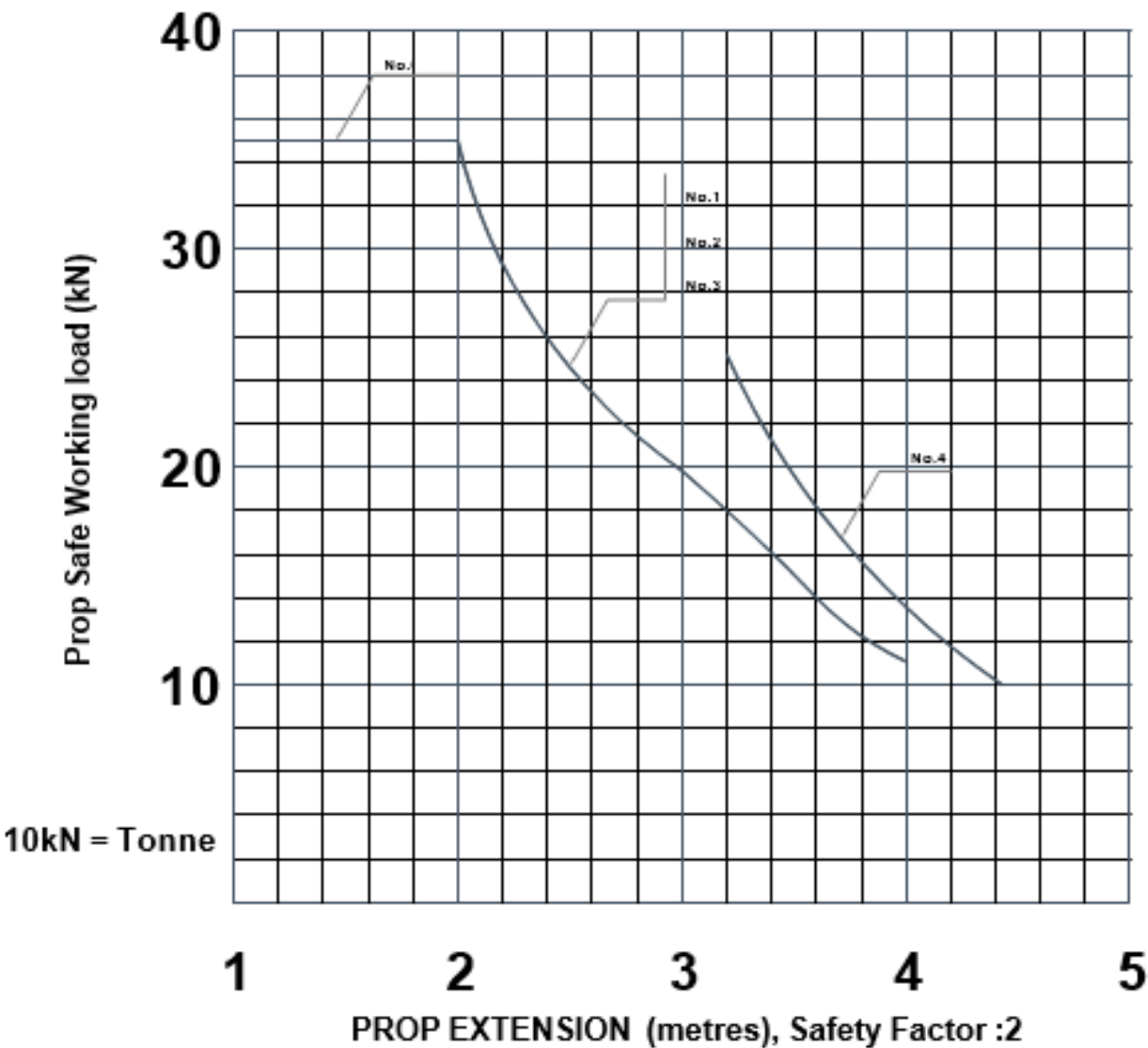
All struts have a Safe Working load of 35 kN (3 1/2 Tones) therefore giving constant spacing when sizes must be mixed.



DESCRIPTION	MINIMUM HEIGHT	MAXIMUM HEIGHT	WEIGHT (kg)
BS Trench Strut No. 0	0.30 m	0.48 m	5.1
BS Trench Strut No. 1	0.45 m	0.68 m	6.2
BS Trench Strut No. 2	0.68 m	1.06 m	8.4
BS Trench Strut No. 3	1.06 m	1.67 m	10.8

TECHNICAL DATA:

SAFE WORKING LOAD FOR FREE STANDING BS PROPS



Props should always be plumb and loaded concentrically.

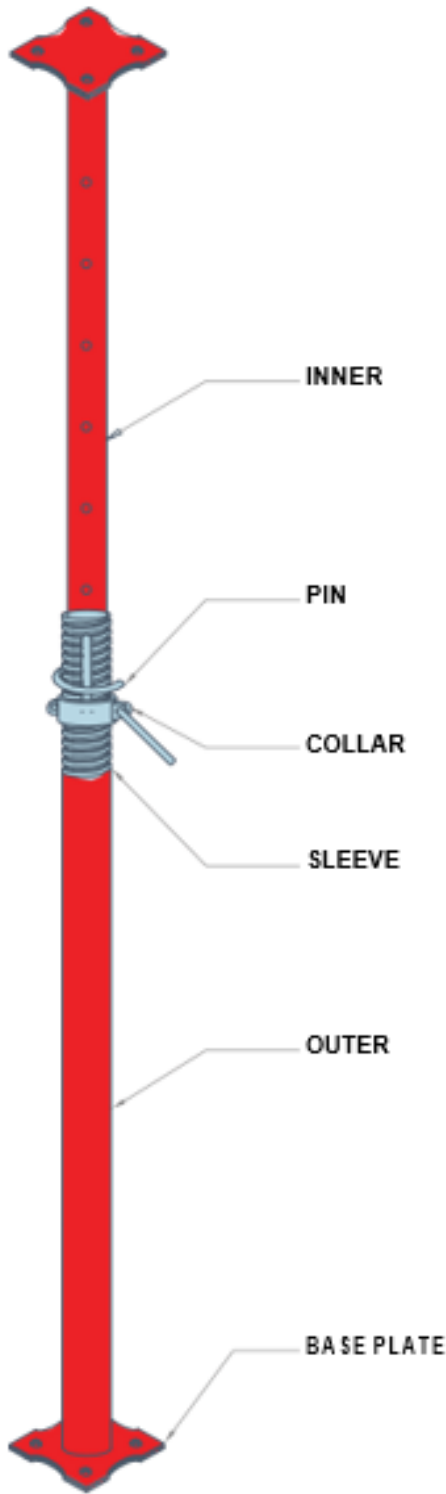
Safe Working loads allow 1.5° out of plumb loaded concentrically.

When using the tables the height of any attachment bolted to the prop must be included in the extension.

EXTENSION	MINIMUM HEIGHT
	OUT OF PLUMB
5.00 m	125mm
4.00 m	100mm
3.00 m	75mm
2.00 m	50mm
1.00 m	25mm

PROPS TECHNICAL DETAILS

LIGHT & MEDIUM DUTY PROPS:

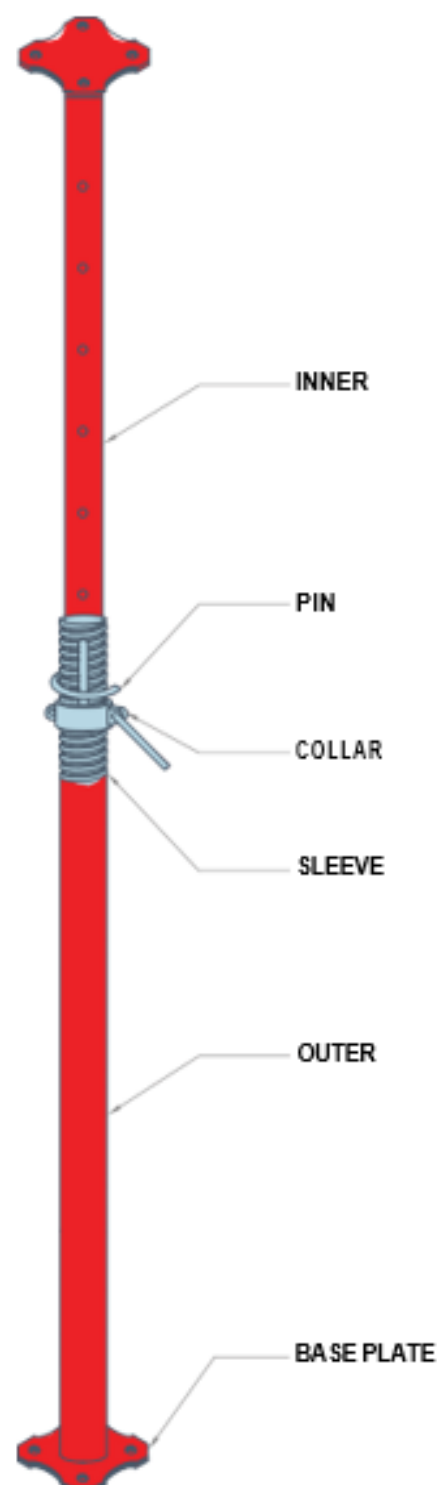


SIZE	MINIMUM HEIGHT	MAXIMUM HEIGHT	WEIGHT (kg)*
5.0 m	3.00 m	5.00 m	15.00
4.0 m	2.50 m	4.00 m	11.75
3.9 m	2.40 m	3.90 m	11.50
3.5 m	2.00 m	3.50 m	10.75
3.0 m	1.75 m	3.00 m	10.00
2.5 m	1.50 m	2.50 m	9.50

* Weight is given for props having 2mm THICK TUBE.
Props are available in 2, 3.2 & 4mm THICK TUBE.
Other sizes are available on request.

TECHNICAL DATA:

KOREAN PROPS (3.9M)

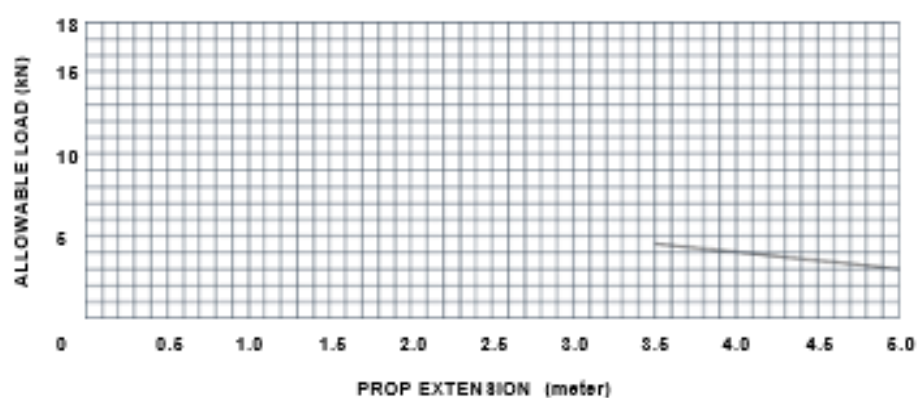


SIZE	MINIMUM HEIGHT	MAXIMUM HEIGHT	WEIGHT (kg)*
3.9 m	2.40 m	3.90 m	11.5

* Weight is given for props having 2mm THICK TUBE.
Props are available in 2, 3.2 & 4mm THICK TUBE.
Other sizes are available on request.

TECHNICAL DATA

SAFE WORKING LOAD FOR KOREAN PROP



Safe Working Load for Korean prop

Inner tube: Ø48.3 x 2.0mm Thick

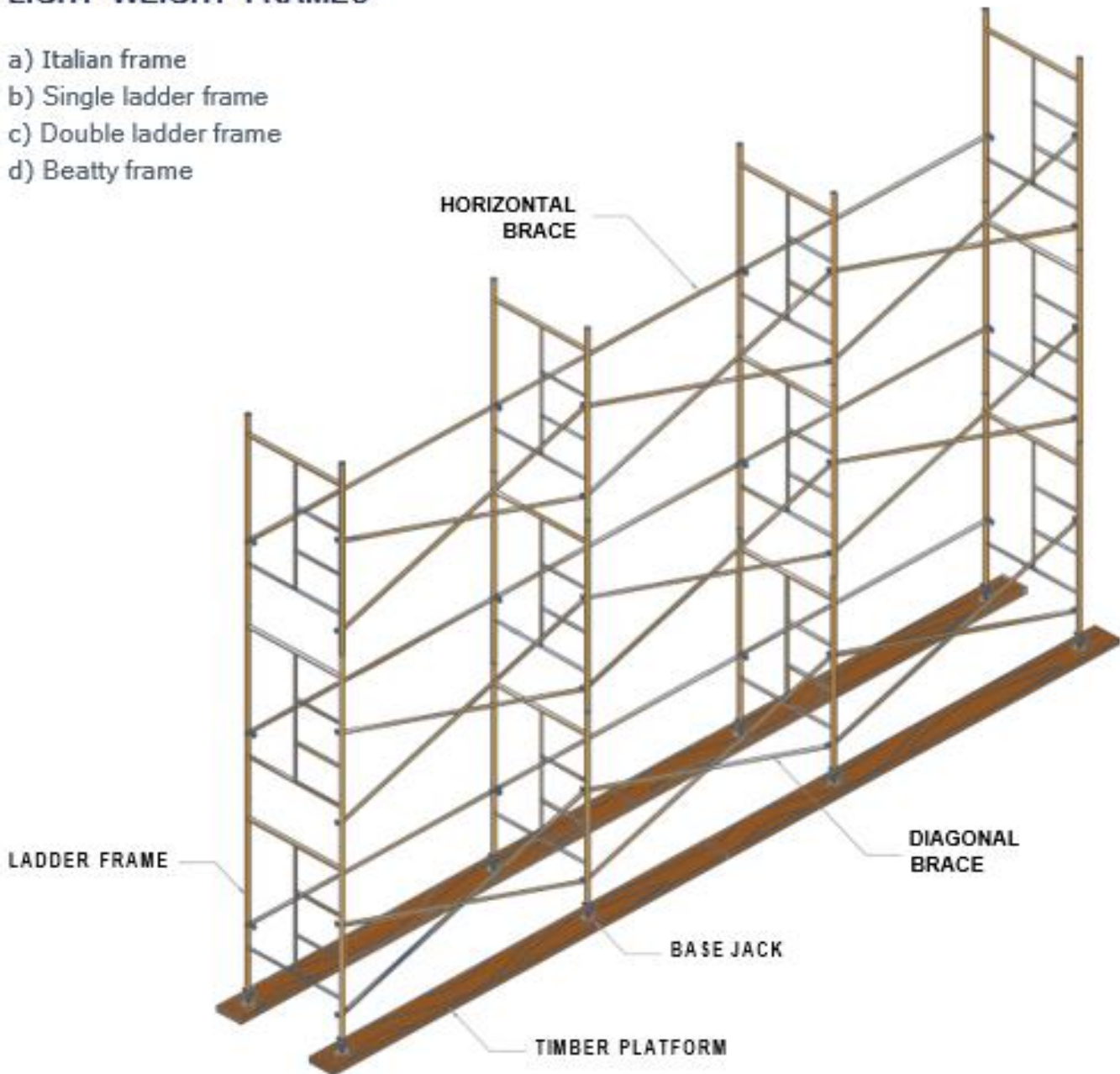
Outer tube: Ø60.3 x 2.0mm Thick

LIGHT WEIGHT FRAMES TECHNICAL DETAILS

- The system has built in spigot and is light weight which allows faster assembly and dismantling.
- No skilled labor required.
- The frame has tubular brace for better rigidity.

LIGHT WEIGHT FRAMES

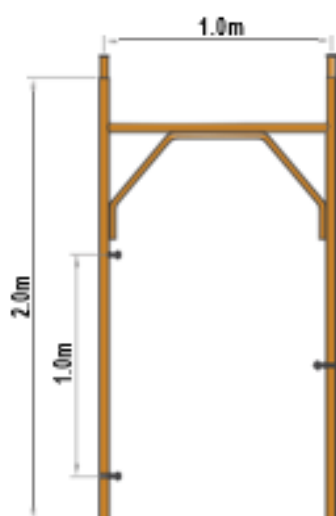
- a) Italian frame
- b) Single ladder frame
- c) Double ladder frame
- d) Beatty frame



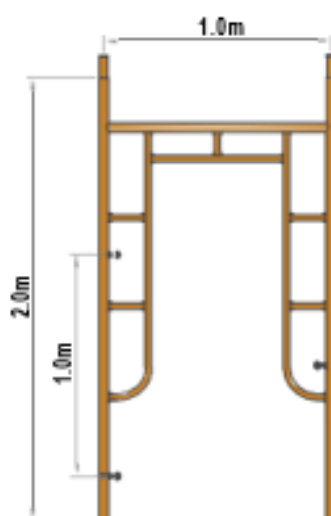
TECHNICAL DETAILS:

- This system is adaptable for shoring in concrete construction works, outside and inside buildings, and in various civil engineering jobs.

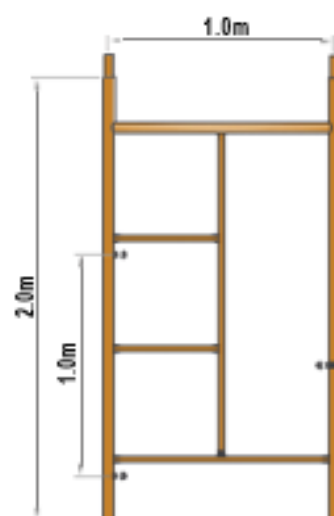
ITALIAN FRAME



DOUBLE LADDER FRAME

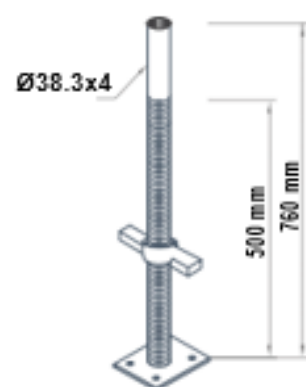


SINGLE LADDER FRAME

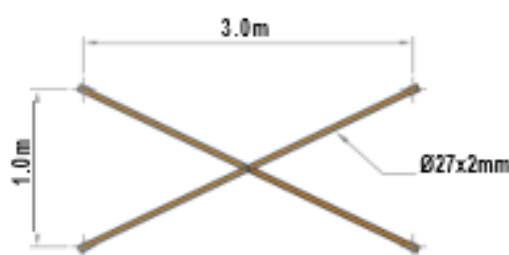


VERTICAL TUBES OF THE FRAME ARE MADE OF Ø48.3X2MM TUBE.

KHK high quality external system is designed to be easy to erect & dismantle without help from professionals. The 'H' Frame, (or) vertical member, has a welded square (or) round pin on top for ease of connection. This allows you to erect the frames faster and to any height with maximum safety & stability. The system is designed not to include any loose fittings inside. The access frame system comes in six different forms all of which conform with British, Italian, Spanish & Korean standards. Non-standard sizes are available on request, for a small charge.



BASE JACK



DIAGONAL BRACE



DOUBLE COUPLER



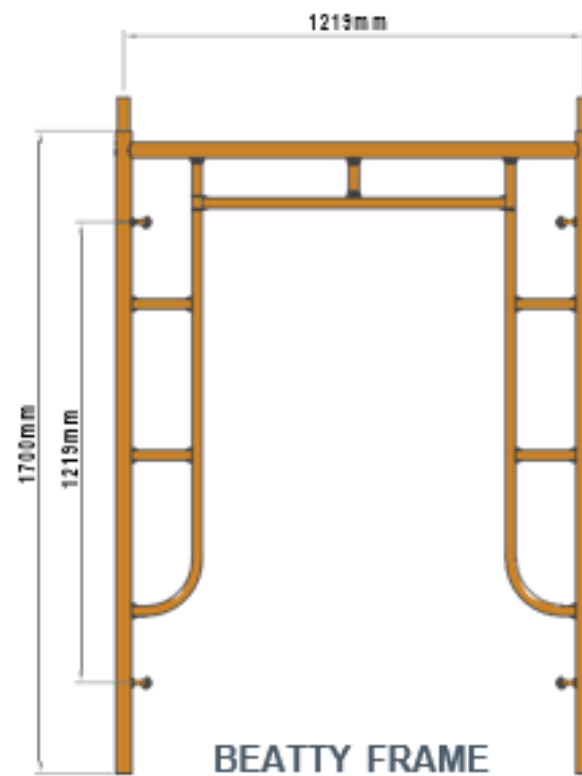
PLAIN BASE PLATE



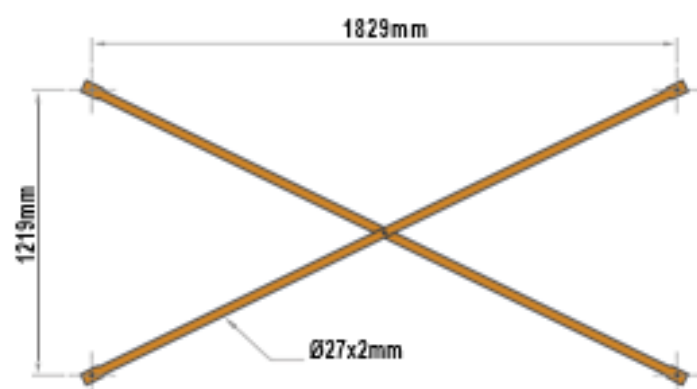
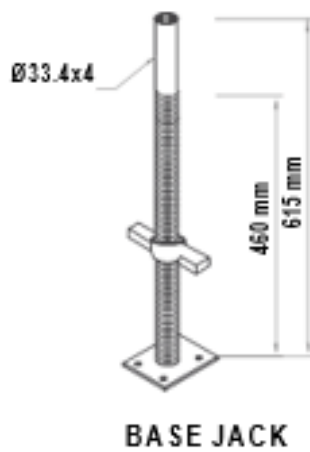
HORIZONTAL BRACE



SWIVEL COUPLER



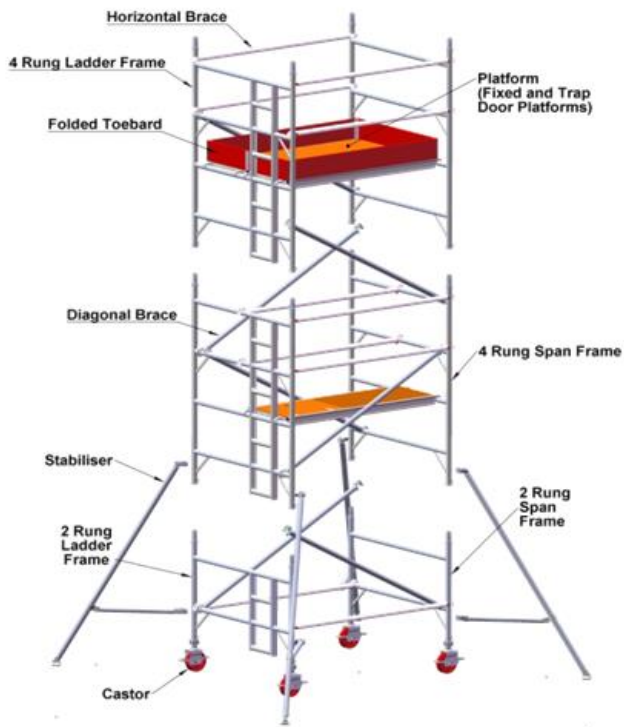
VERTICAL TUBES OF THE FRAME ARE MADE OF $\varnothing 42.9 \times 2 \text{ mm}$ Tube.



ALUMINUM MOBILE TOWER & ALUMINUM LADDER

Mobile Scaffold is utilised for jobs where a scaffold must be moved multiple times to complete the work. They are easy to erect and easy to maneuver in small spaces.

Aluminum mobile towers are a great way to get up high, fast. If you have a job that requires a steady platform such as guttering work or painting a ceiling aluminium mobile scaffold towers are your solution. Easy to build and quick to strip back down again, you'll find our mobile towers will be your go to for any small, at height jobs.



H20 Beam

The H20 formwork timber beam is a solid I-beam used for concrete formwork construction.

The height of beam is 200mm and available in different standard lengths

The webs made of 3 ply laminated solid wood panels ensuring high carrying capacity for continuous use in all climate zone.

The chords are made of superior quality smoothly surfaced and slightly chamfered.

- H20 beams properties:

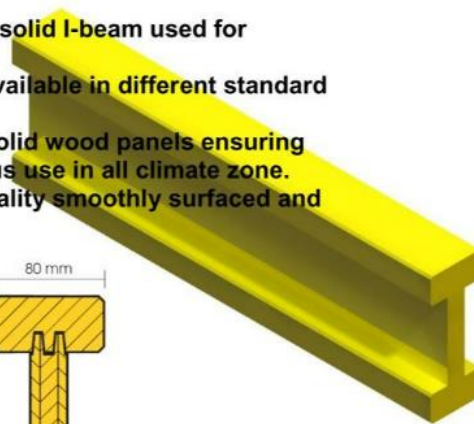
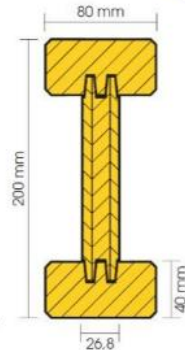
Technical Specifications

1-Permissible modulus $M(t.m)=0.50$

2- Permissible shear force $Q(t)=1.10$

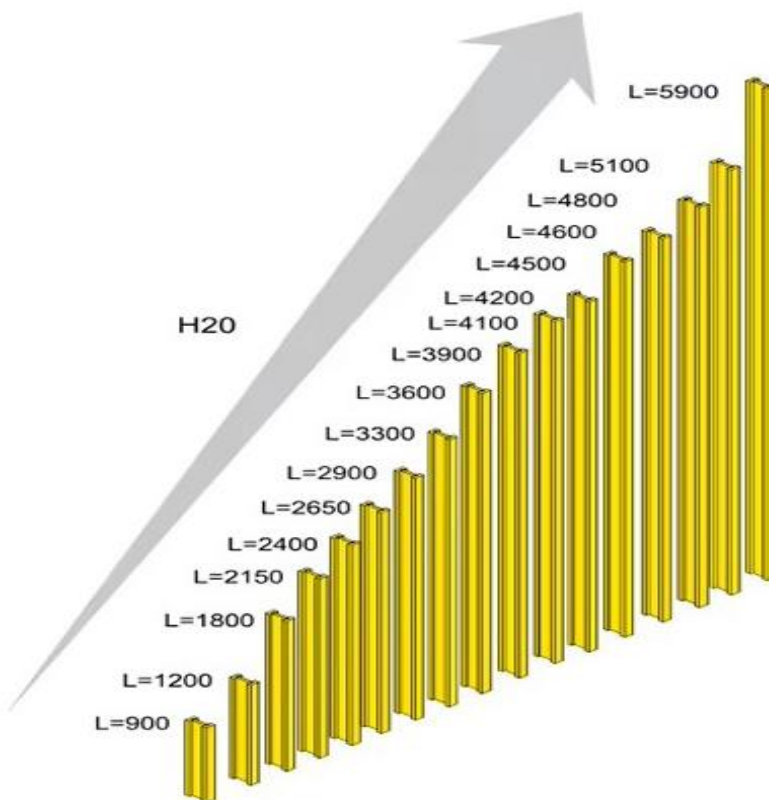
3- Section modulus $(z) = 461 \text{ cm}^3$

4- Geometrical moment oh inertia $(I) = 4613 \text{ cm}^4$

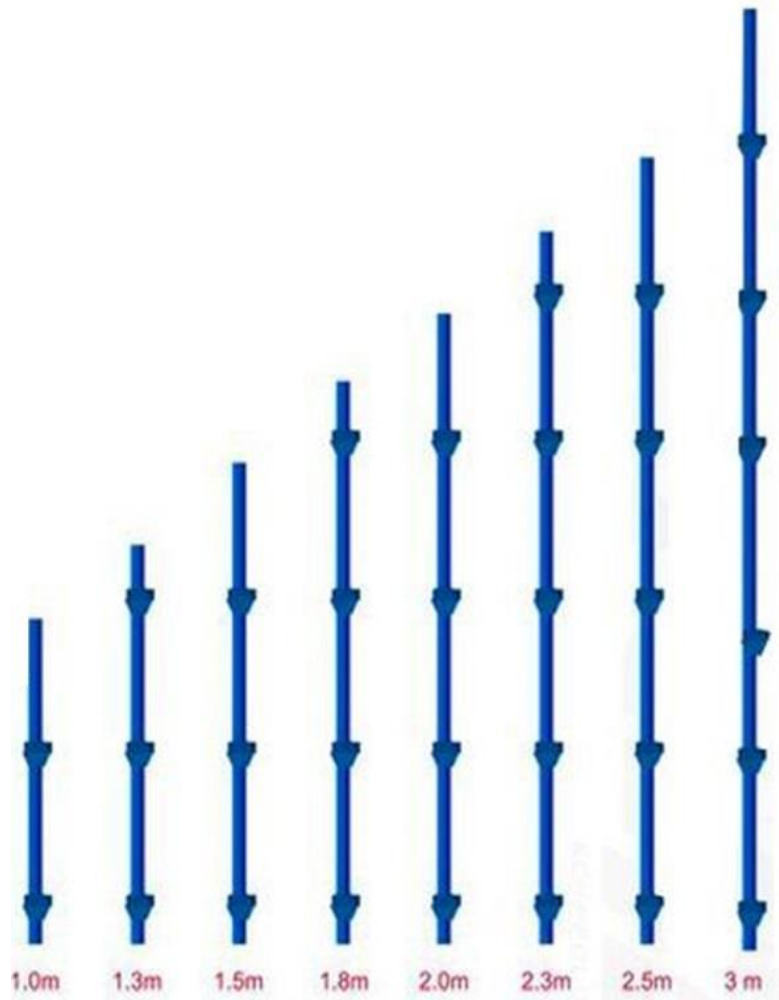
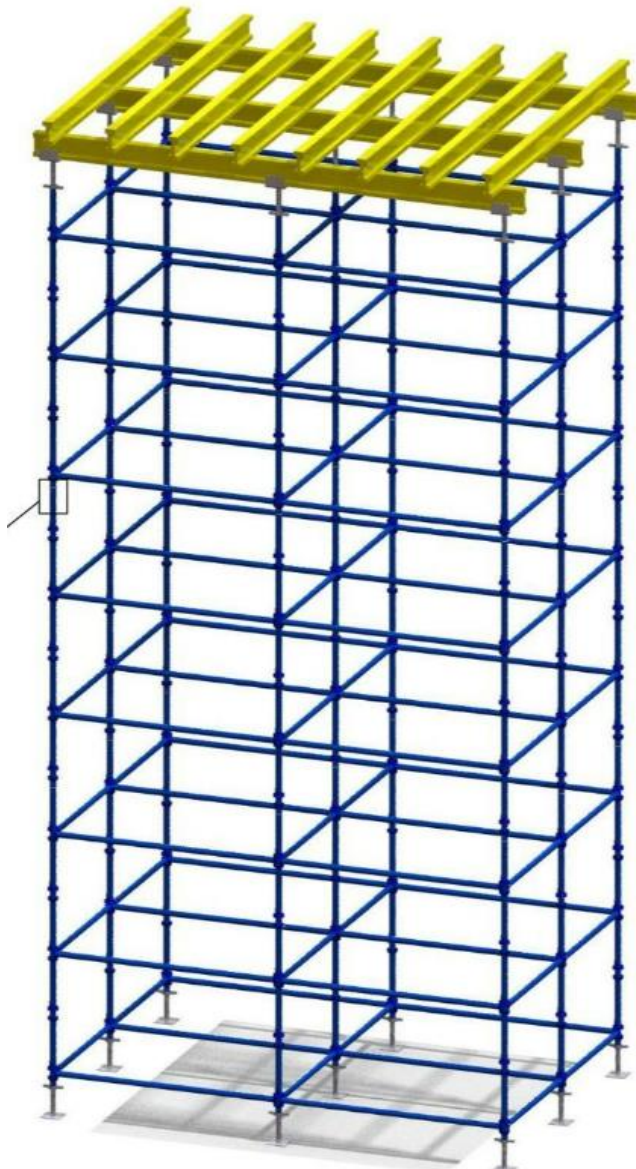
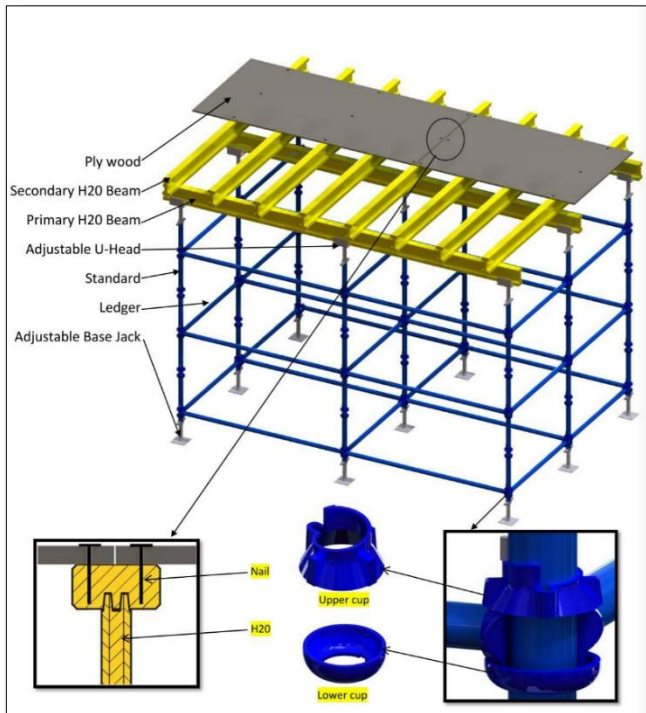


Length(mm)	Weight(kg)
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900	4.54
1200	6.05
1800	9.08
2150	10.85
2400	12.10
2650	13.37
2900	14.62
3300	16.63
3600	18.14
3900	19.66
4100	20.68
4200	21.31
4500	22.57
4600	23.20
4800	24.19
5100	25.73
5900	29.74

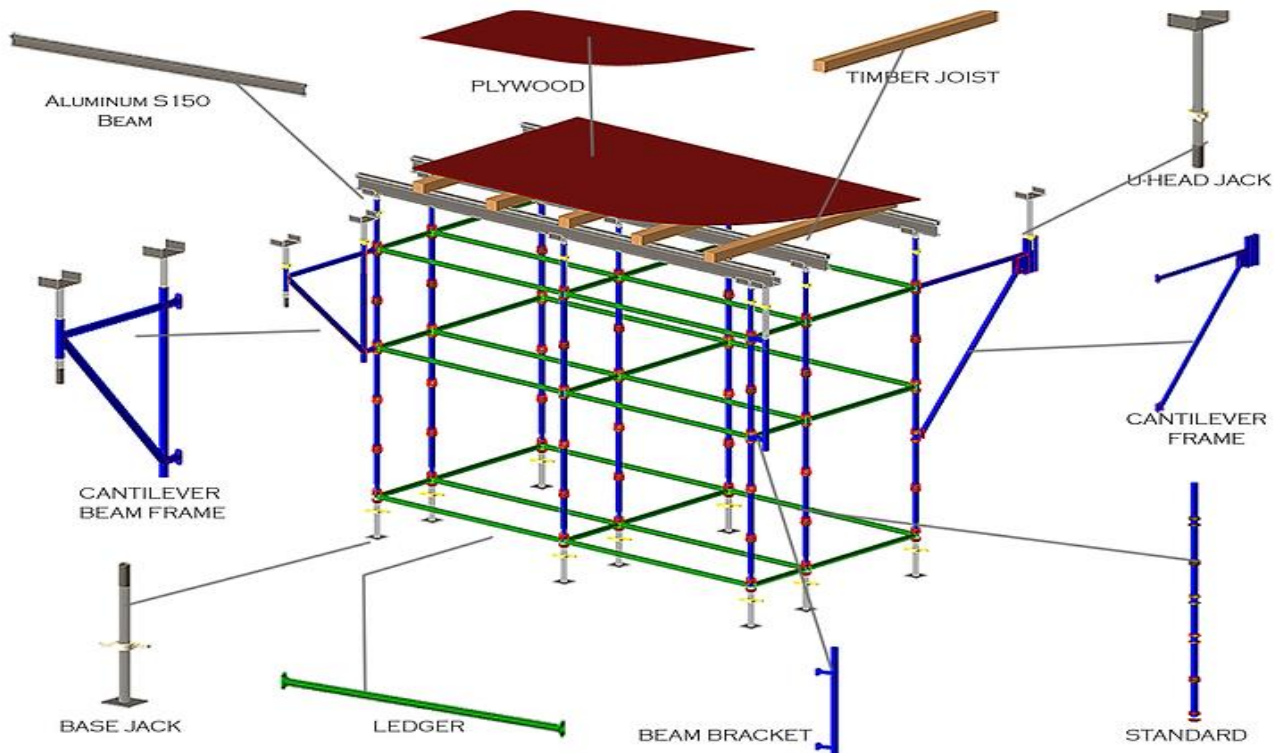


CUPLOCK WITH H-20



ALUMINIUM BEAMS SYSTEM

Aluminum Beam is a Slab Formwork system Combine with Aluminum Beams, plywood and Cup lock System

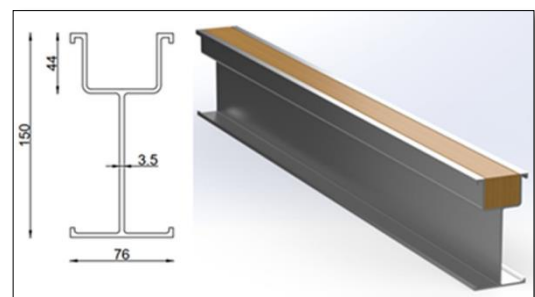


FEATURE & ADVANTAGE

Great recyclable material helps to save long term material investment cost.
Good concrete forming quality with a flat surface to reduce the second time plastering.
Standardized components make it easy for installation & Dismantling.

ALUMINIUM BEAM SIZE

Length (m)	Weight(kg)
1.2	4.80
1.8	7.20
2.4	9.60
2.7	10.80
3.0	12.00
3.6	14.40
4.2	16.80
4.8	19.20
5.4	21.60
6.0	24.00
6.4	25.60
7.2	28.80



ALUMINIUM PANNEL

COLUMN FORMWORK



COUPLERS

All the fitting accessories confirm to BS/EN – 74 A-B standards



DOUBLE COUPLER (FORGED TYPE)

Forged type double couplers provide stronger grip. Easier to handle when connecting standard to standard or ledger to ledger and any tube having an outside diameter of 48.3mm at right angle or 90°.

Weight: 1.00 kg.



SLEEVE COUPLER

A coupler designed with wrapping facility for end-to-end connection of any scaffold tube to form a butt joint connection.

Weight: 1.25 kg.



SWIVEL COUPLER (FORGED TYPE)

Forged type swivel couplers are more flexible than double couplers since it can connect two 48.3mm outside diameter tube at any angle.

Weight: 1.00 kg.



PUTLOG COUPLER (FORGED TYPE)

Designed to join putlogs or transoms to ledger allowing scaffold board to be laid across on top of the putlogs or transoms.

Weight: 0.65 kg.

COUPLERS

All the fitting accessories confirm to BS/EN – 74 A-B standards



JOINT PIN

A fitting designed with utilities as the sleeve coupler except that it is connected internally.

Weight: 0.82 kg.



GRAVLOCK GIRDER COUPLERS

Designed to connect scaffold tube to beam or girder flange.

A pair of gravlock girder couplers must always be used.

Weight: 1.30 kg.



PROP BRACING SWIVEL COUPLER

Designed to connect standard scaffolding tube to the prop inner tube at 90°.

Weight: 1.3 kg.



BOARD RETAINER CLAMP BRC (FORGED TYPE)

COUPLERS

All the fitting accessories confirm to BS/EN – 74 A-B standards



**SWIVEL COUPLER
(PRESSED TYPE)**

Pressed type swivel couplers are more flexible than double couplers since it can connect two 48.3mm outside diameter tube at any angle.

Weight: 1.00 kg.



**DOUBLE COUPLER
(PRESSED TYPE)**

Pressed type double couplers provide a stronger grip. Easier to handle when connecting standard to standard or ledger to ledger and any tube having an outside diameter of 48.3mm at right angles or 90°.

Weight: 1.00 kg.



**BOARD RETAINER CLAMP
(PRESSED TYPE)**



LADDER CLAMP



SINGLE COUPLER (PRESSED TYPE)

FORMWORK ACCESSORIES

TIE ROD

It has a maximum overall diameter of 15.5 mm and is available in 6m length with S.W.L. of 90 kN



WING NUT

It is used with soldiers in conjunction with thrust plate.



WATERSTOP

It is used for watertight concrete wall.



THRUST/TIE PLATE

It is used in conjunction with wing nut for the use of timber bearers

Size: 120 x120mm
Weight: 0.88 kg
swl: 90 kN



PLASTIC SLEEVING

It is used to prevent contact between the concrete and tie rod.



PLASTIC CONE

It is used to seal plastic sleeving to form face.



TIMBER WALING CLAMP

It is used to clamp timber walings 50mm-75mm thick to the Soldier at any height.
Weight: 0.80 KG



UNIVERSAL CLAMP

It is used to clamp aluminum walers to the soldiers.
Weight: 0.58 KG



TIMBER BOARDS & STEEL BOARDS

Timber boards and steel boards are used for a work platform making it easy for the workers to perform their tasks at the construction sites.

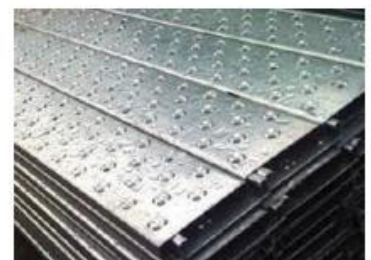
1. SCAFFOLD BOARDS



2. LVL BOARDS



3. STEEL BOARDS



SCAFFOLDING TUBES

Scaffold tubes are available with a diameter of 48.30mm x 3.20mm wall thickness. All tubes are galvanized in accordance with EN ISO 1461: 1999



Length (mm)	Thickness (mm)
Bracing Tube 6.00m	3.2mm
Bracing Tube 5.50m	3.2mm
Bracing Tube 5.00m	3.2mm
Bracing Tube 4.50m	3.2mm
Bracing Tube 4.00m	3.2mm
Bracing Tube 3.50m	3.2mm
Bracing Tube 3.00m	3.2mm
Bracing Tube 2.50m	3.2mm
Bracing Tube 2.00m	3.2mm
Bracing Tube 1.50m	3.2mm
Bracing Tube 1.00m	3.2mm



نجم الأفق لتأجير السقالات ذ.م.م.



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