

# SCAFFOLDING AND FORMWORK



Product and Services for Construction & Industrial Services

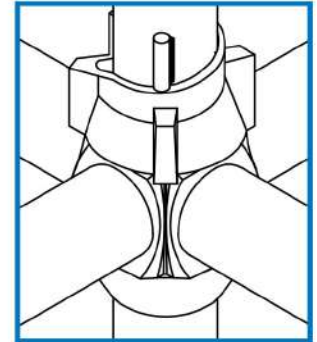
# R-LOCK SYSTEM

R-Lock is a proven multi purpose Scaffolding Systems which can be used for all forms of access and support structure in the Building & Constructions Industries.

Single node point action of unique locking makes "R-LOCK" a fast versatile & optimized system of Scaffolding for Construction, Demolition & Maintenance Projects throughout the world.

## HIGHLIGHTS

- Fastest & easily erectable
- Easily stored
- Highly resistant to damage
- Most versatile
- Low maintenance
- Safety with proven track record



## 1. R-LOCK STANDARD

Manufactured from 48.3mm O.D tube welded at 500mm Intervals. The top cups are made from malleable castings which provide firm grip to ledger blades castings to endure rough site handling, and welded bottom cups are pressed from high quality steel. Access standards are provided with integral 150mm long spigots for making easy vertical connection.

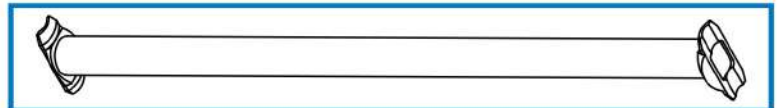


**SIZES AVAILABLE** 3.0m, 2.5m, 2.3m, 2.0m, 1.8m, 1.5m, 1.3m, 1m, .8m

## 2. R-LOCK LEDGER

Manufactured out of 48.3mm O.D tubes having identical forged blades at the ends with minimum of projection, each component locates in the cup joints on the vertical.

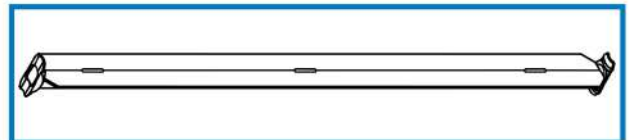
Minimum projection of Blades avoids damages in handling and uniform dimension makes the cup joint rights.



**SIZES AVAILABLE** .6m, .9m, 1.0m, 1.2m, 1.25m, 1.3m, 1.5m, 1.6m, 1.8m, 2.0 m, 2.5 m

## 3. R-LOCK TRANSOM

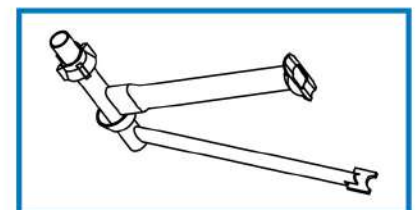
R-Lock transom is used to provide a firm support for steel battens. It is back to back angle which provides strong support for working platforms.



**SIZES AVAILABLE** 0.9mm, 1.3mm, 1.8mm, 2.5mm

## 4. R-LOCK HOP-UP BRACKETS

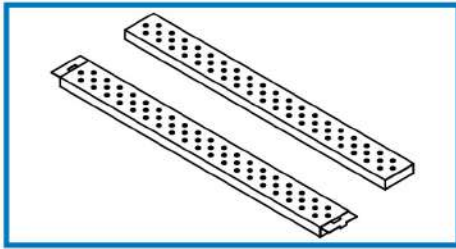
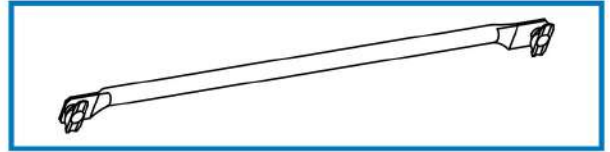
Hop-up Brackets are specially designed section for placing battens with the provision of forged blades to be fitted with Cuplock Standard by cup joint. Hop-up brackets are available for single board, 2 boards & 3 board allocations.



# R-LOCK

## 5. LONGITUDINAL (FACE) BRACING

Face braces are with Swivel Blades at either ends which locate in the cup joints for various sizes. They should be longitudinally braced in at least one bay to its full height in each 20m.



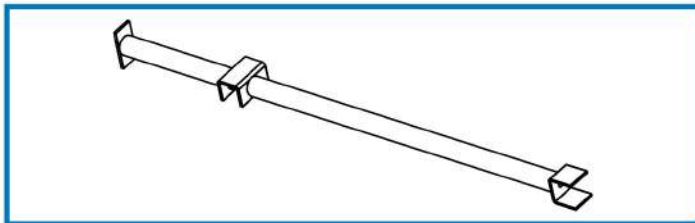
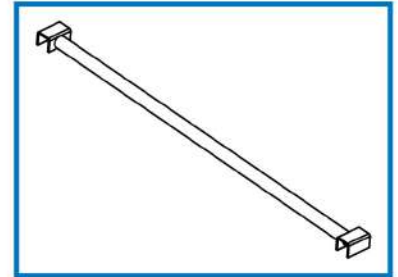
## 6. STEEL BATTENS

They are light weight non slip working surface, which can be used with Transom. They form stable & robust working platforms and are available in different sizes.

## 7. R-LOCK INTERMEDIATE TRANSOMS

They are available for use with Hop-up Brackets where distances between standards exceeds the minimum permitted span of the Scaffold Boards.

**SIZES AVAILABLE** 1.2m, 1.3m, 1.8m & 2.5m



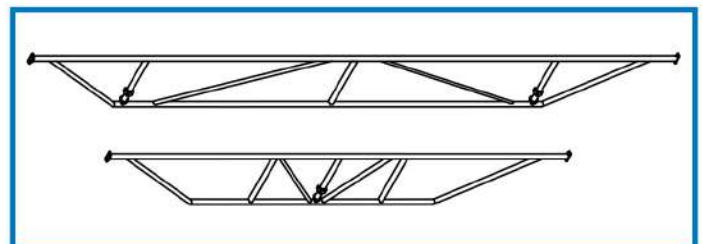
## 8. INSIDE BOARD TRANSOMS (ONE BOARD)

These are used where facility for a single Inside Board Platform is required. When using Scaffold Boards, the inside based transom is utilised. It spans across the ledgers for a midbay support. The unit is similar in operations to Intermediate Transom.

## 9. R-LOCK BRIDGING HORIZONTALS

These are used in access scaffolds to allow vehicles entrance at the base of the scaffold or to span over areas where a strong base cannot be found.

These components are used to provide a working platform complete with necessary guardrails and must be provided at every working level.



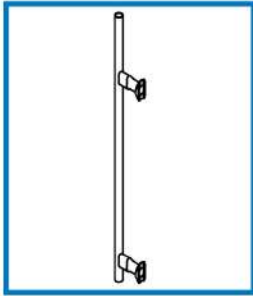
**SIZES AVAILABLE** 5m, 7.5m

# R-LOCK

## 10. CANTILEVER FRAMES

These are used for supporting Decking or Formwork at the edges of slabs. The frames have blade ends for locating in the cup joint & can accept jacks in 3 positions. This is suitable for beams or panels of 1.2m, 1.25m or 1.3m.

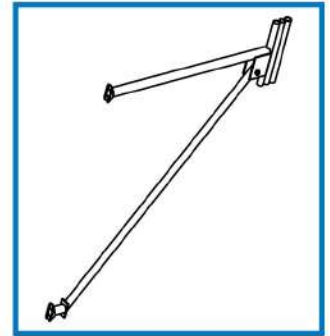
**SIZES AVAILABLE** 1m, 1.5m



### BEAM BRACKET

Eliminates full height support to Beam Formwork by locating on to slab support vehicles as shown accepts Standard jacks & forkheads. It has a safe working load of 1500 kg.

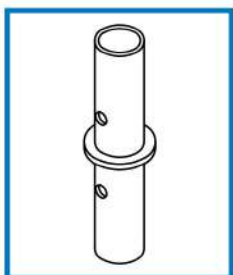
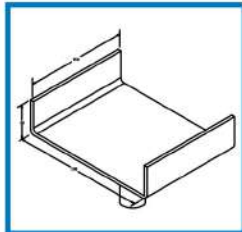
**SIZES AVAILABLE** 1m, 1.5m



## R-LOCK ACCESSORIES

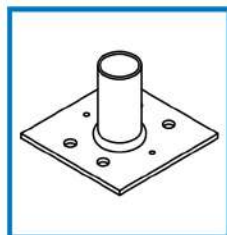
### 1. FIXED FORKHEAD

For use with timber support. They are designed for use with single /double timbers.



### 2. LOOSE SPIGOT

When necessary, verticals are connected end to end by an interval spigot. This is lined to the lower vertical with the help of Spigot Pins.

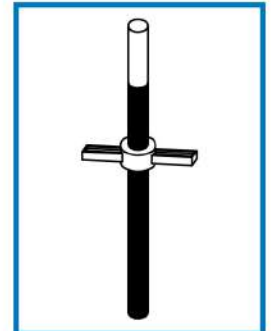


### 3. ADAPTOR

Drophead adaptor units provide for an easy conversion of dropheads from the waffle & trough/ metrifform support systems for use with Cup lock.

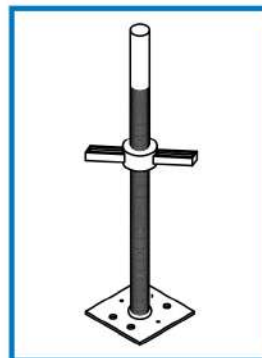
### 4. UNIVERSAL JACK

The screw jacks provides a method of jacking which can be used at either top or bottom of a Scaffold Structure. It's used in conjunction with Forkheads & Drop head adaptors. It's manufactured from 38mm outside Diameter tube.



### 5. ADJUSTABLE BASE JACK

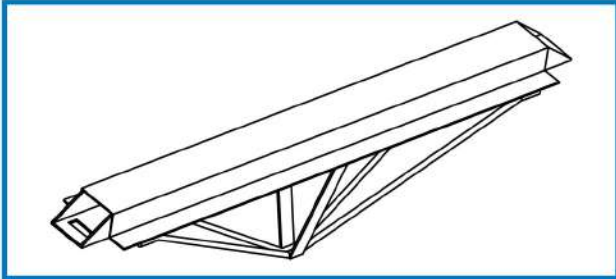
This well proven prop type-zinc plated, adjustable base jack, is a base component & provides a full 500mm of cease fine adjustment, thereby covering the entire range between cup joints on verticals.



# METRIFORM SYSTEM

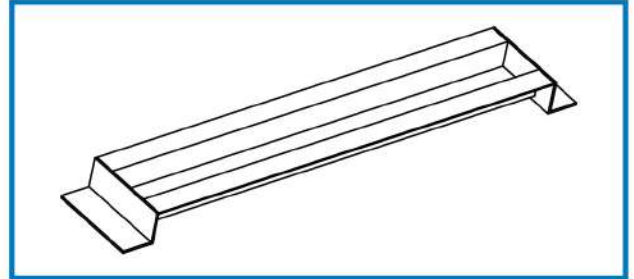
## DECK BEAM

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



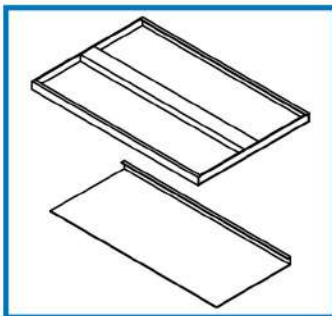
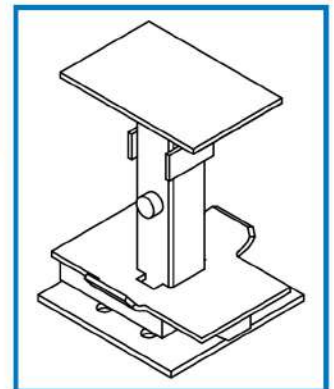
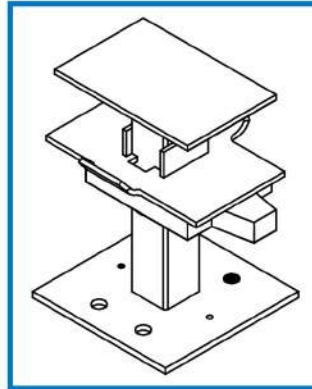
## INFILL BEAMS

These are used to provide skeletal support for plywood dealing.



## DROPHEADS

The quick action drophead supplied complete with nuts and bolts is designed to fit on standard props or adaptors for Cuplocks scaffolding. They allow panels and beams to be struck and re-used after only 3 or 4 days, leaving the support in position for the remainder of the curing period of the concrete slab. The primary head remains in contact with the concrete whilst the secondary head and its supporting wedge are released by a single hammer blow. The height of the drophead is 214mm and the striking distance allows the beams and panels to drop only 115mm for their safe removal a marked improvement in terms of speed and safety compared with other systems. The drophead has a load carrying capacity of 40kN. Special care has been taken to ensure that beams cannot be accidentally dislodged once located with the drophead primed.



## FLOOR FORM / SLAB FORM

Manufactured out of 14 gauge sheets with pressed flanges and stiffener. Available in standard sizes of 1150x600, 900x600, 1150x300, 900x300mm. Other sizes available on request Floor/Slab Form adjusters eliminates use of cut pieces of timber, as these can fill up odd shapes of slab.

**SIZES AVAILABLE** 1150 X 600, 900 X 600 | Fillers: 1150 X 400, 900 X 400

# WALL FORM SYSTEM

## USES OF WALL FORM PANELS

SPECIFICALLY DESIGNED FOR WALLS, WHETHER THEY BE SINGLE OR DOUBLE SIDED, VERTICAL, SLOPING, SPLAYED, STRAIGHT OR CIRCULAR.

ALSO USED ON COLUMNS, BEAMS AND FLOORS.

## ADVANTAGES

3.0 mm Steel face plate used in construction to minimise site damage.

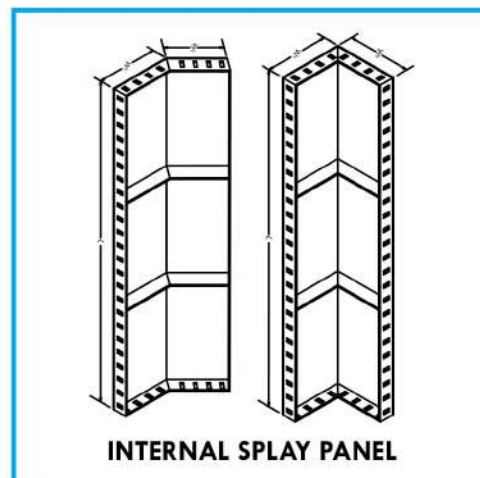
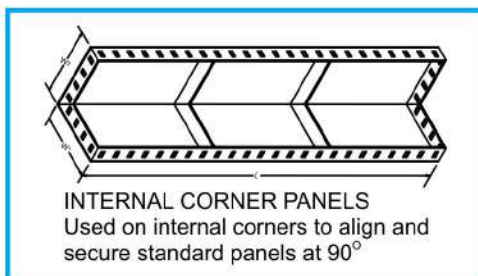
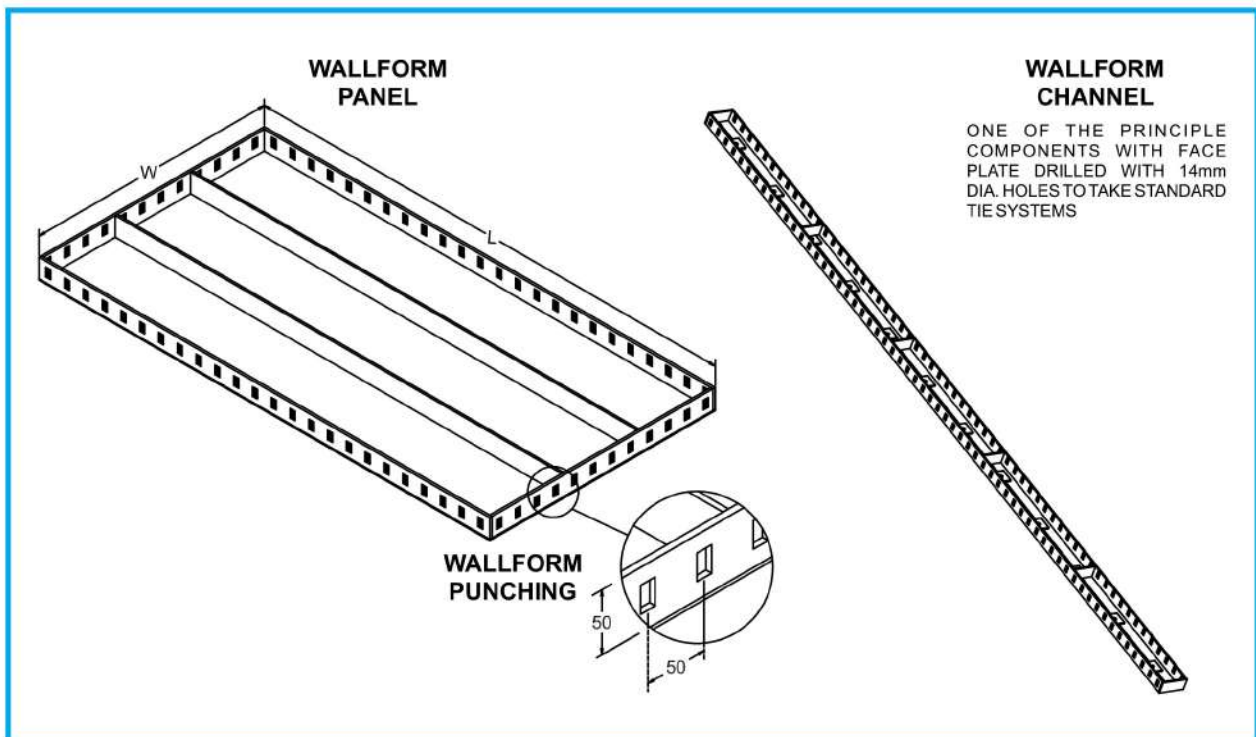
Accommodates any tie system.

Interchangeable with economy form system.

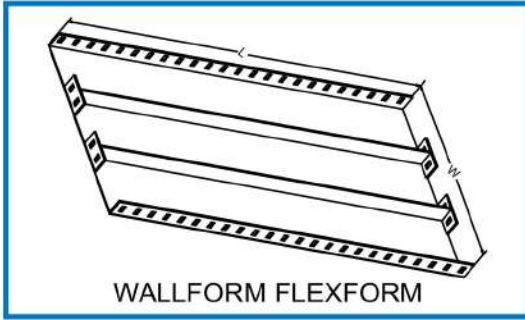
Rapid assembly with wedge sets.

Wide range of specialised components available for wall forming.

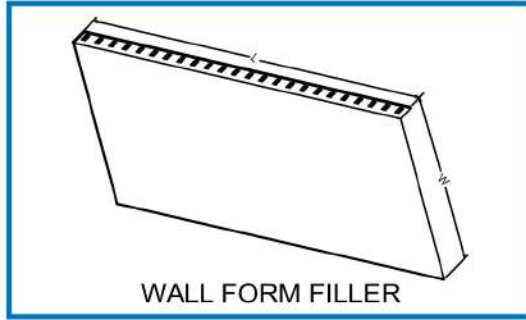
Can easily be erected by unskilled labour.



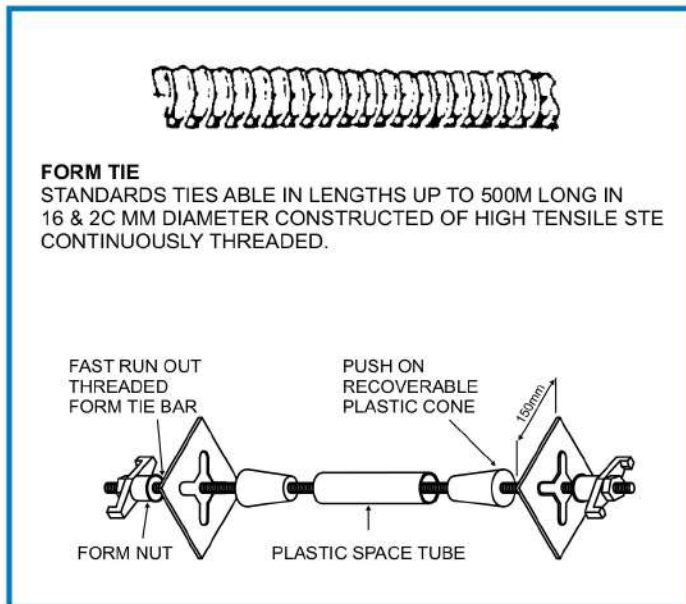
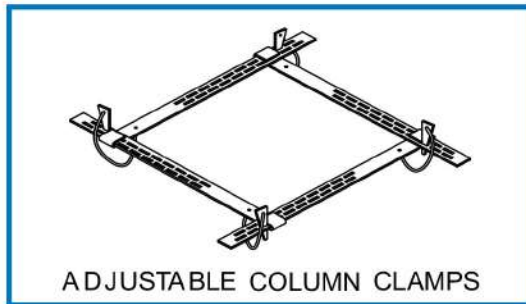
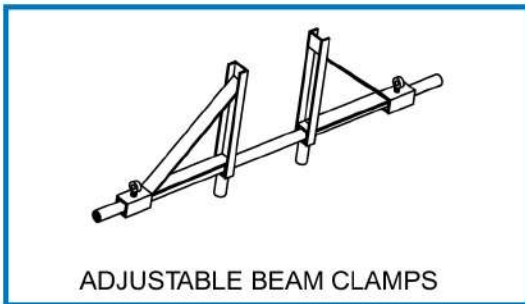
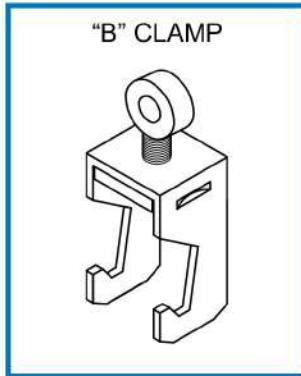
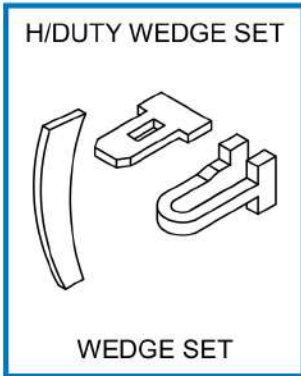
# WALL FORM SYSTEM



WALLFORM FLEXFORM



WALL FORM FILLER



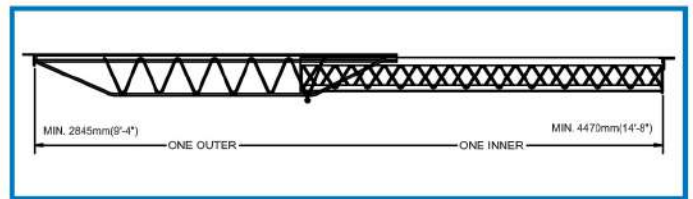
# ADJUSTABLE TELESCOPIC SPAN & PROP

## SPAN

### ADVANTAGES

- Fully adjustable to accomodate any span within their range.
- Quickly erected providing the contractor with a substantial saving in time & labour.
- Retract to facilitate easy transportation & storage.
- Light compact & easy to handle
- Have no loose Parts

SIZE	RANGE, MIN. M.	MAX. M.
ESO + ESI	1.75	2.70
ESO + SI	2.38	3.40
SO + ESI	2.40	3.45
SO + SI	2.46	4.15
SO + LI	3.05	4.75
LO + SI	3.15	4.90
LO + LI	3.15	5.50



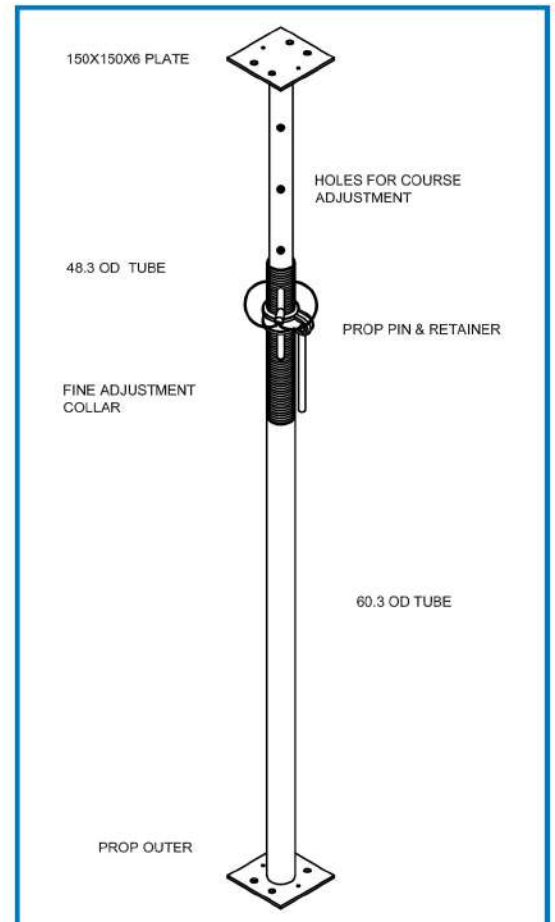
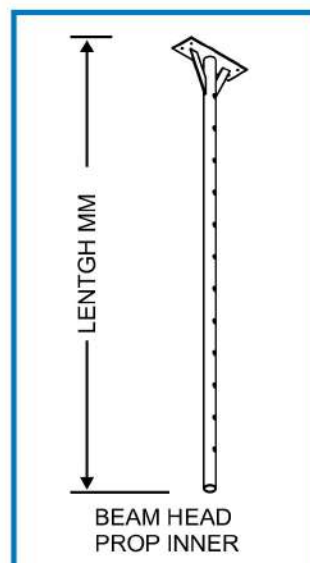
**Note:** No intermediate support to be provided under adjustable telescopic Spans.

## PROP

SIZE	ADJUSTMENT		SAFE WORKING LOAD (kg)	
	CLOSED	OPEN	CLOSED	EXTENDED
NO. 0	1.10mm	1.75mm	3500	3000
NO. 1	1.50mm	2.75mm	3200	2300
NO. 2	2.0mm	3.25mm	3000	2200
NO. 3	2.0mm	3.75mm	2900	2000
NO. 4	3.0mm	4.65mm	2300	1150

### note:

- Table is based on props being erected vertically and loaded axially.
- Any deviation will result in a reduction of carrying capacity.
- Props should be laced in both directions with scaffold tube.
- Lacing should be tied to the permanent structure or braced to improve the overall stability of the false work.

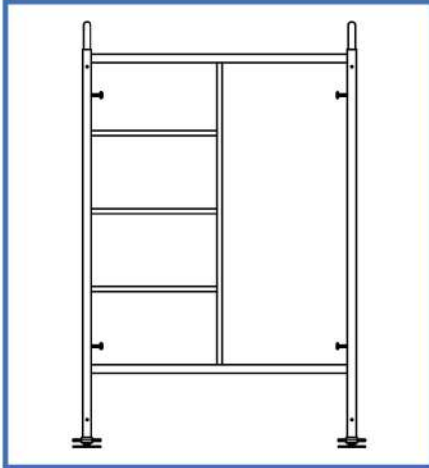




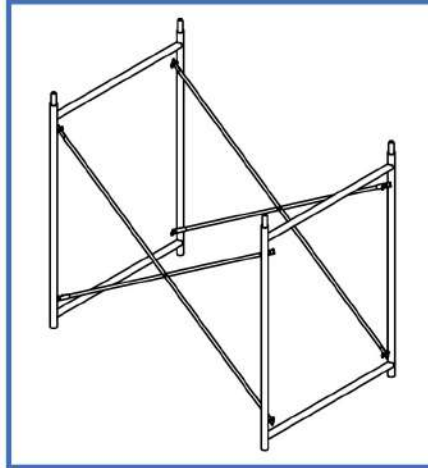
# FRAMES

Frame Systems are light weight, flexible, easy to install and dismantle. These frames are dynamic and can be extended or joined with additional units. Frame System can achieve a wider roof span with higher system factor.

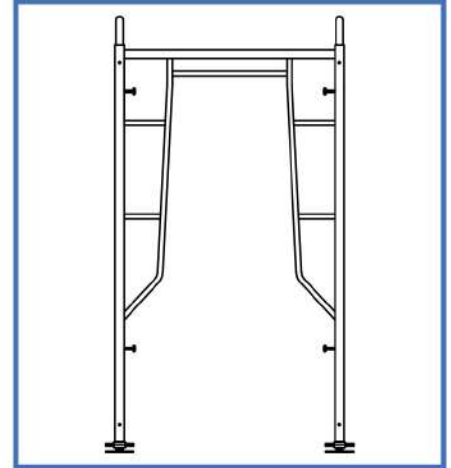
All Frame Systems are aesthetic Frame System due to decorative geometrical structural pattern. It's the best Frame System because of its fast site installation without disturbance to other site jobs.



**LADDER FRAME**



**H - FRAME**



**WALK THRU FRAME**

# TUBES AND FITTINGS

Reliance tubes & fittings includes a comprehensive range of components which are strong, safe and economical & which are ideally suited for wide application in Building Construction & Maintenance Industry. Tubes & Fitting are widely used for supporting man & materials, tools & tackles during Construction, Alteration, Demolition because of their following main advantages.

- Ease & speed in erection & dismantling
- Scopes for multiple & varied re-use (life & flexibility in use)
- Rigidity & stability during erection.
- Ease in storing & maintenance.

## SCAFFOLD TUBES

Steel Scaffold tubes are 40mm N.B. Mild Steel Continuous weld conforming to IS:1239 or 1161, Grade yST 210 & 240, BS : 1139, 1175. Grade 40-C & 50-C. Supplied in random lengths of 4.5 to 6 M.

SCAFFOLD TUBES - SPECIFICATIONS			
N.N. & Series mm	Wall Thickness mm	Outside Dia. mm	Nominal Wt. Black Tubes Plain End Kg/m
20L	2.35	26.90	1.42
M	2.65		1.58
H	3.25		1.90
25L	2.65	33.7	2.04
M	3.25		2.46
H	4.06		2.99
32L	2.65	42.40	2.61
M	3.25		3.15
H	4.05		3.86
40L	2.90	48.30	3.27
M	3.25		3.61
H	4.06		4.43
50L1	2.90	60.30	4.14
50L2	3.25		4.67
M	3.65		5.10
H	4.50		6.17

# TUBES AND FITTINGS



## DOUBLE COUPLER

Used for connecting scaffold tube at right angle to each other for 40 X 40 NB and 40 X 50 NB tube.



## SWIVEL COUPLER

This type of couple is used for connecting two tubes at any angle available for 40 X 40 NB and 40 X 50 mm NB pipe.



## FORGED DOUBLE COUPLER

A coupler having captive 'T' bolts used for connecting two scaffold tubes 40 X 40 mm NB at right angle.



## FORGED SWIVEL COUPLER

A coupler incorporating captive 'T' bolts for connecting two scaffold tubes 40 X 40 mm NB at any angle for diagonal bracing.



## PUTLOG COUPLER

A coupler to complement the double coupler for two horizontal tubes at right angle 40 X 40 mm NB.



## SLEEVE COUPLER

Sleeve coupler for axial connection of two tubes that are subject to bending or axial tension 40 X 40 mm NB.



## GIRDER COUPLER

For fast secure coupling of tube to 'I' beam.



## SINGLE COUPLER

Enables scaffold tubes to be connected to a permanent fixture.



## JOINT PIN

Joint pin is used internally for connecting two tubes end to end 40 X 40 mm NB.



## FENCING COUPLER

As strong, high quality coupler designed to secure metal fencing panel upright together.



## ROOFING COUPLER

Designed for 'Hole-Free' rapid clamping of scaffold tube above & below corrugated sheet.



## STAIR TREAD BKT.

Designed with integral swivel coupling for quick fixing of stair tread.



## UNIT BEAM



## LADDER BEAM



## BOARD CLAMP



## WOODEN BOARDS