شركة مصنع طموحات الجزيرة للصناعات الحديدية والمعدنية

AL-JAZEERA AMBITIONS FACTORY CO.

FOR STEEL & METAL INDUSTRIES

JAFCO

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PIPE SUPPORT

PROPS &

SCAFFOLDINGS

دعامات و سقالات

JAFCO
PIPE SUPPORT, PIPE & SCAFFOLDING

About us

The Globalization of virtually every major industry has dramatically altered the rules of competition. Having successfully carved a niche for itself on the GCC scene, we at JAFCO have entered a new era and gone global.

We are following characteristics, which experts agree, companies should have.... a global vision teamed with a strategy to turn it in to reality.

Most companies pay lip service to meet it's customer's quality need, but at JAFCO it is more than just a slogan... We have found that the only way to achieve real quality and thus customer satisfaction is by forming a partnership that involves all employees, inspiring each of them to set new benchmarks in growth and excellence.

This approach has allowed us to link the entire work process of the supply chain (customer to customer) for R & D through marketing and service to deliver total unmatched quality to our customer.

Fired with the conviction that our customers are our greatest resources, we seek their creative involvement in all phases of our business.

To Project our name on an international level as an exporter of a diverse range of quality products, we feel confident of achieving our objectives beacause at JAFCO, we firmly believe that "actual growth" means the growth of all the people & organizations associated with us.

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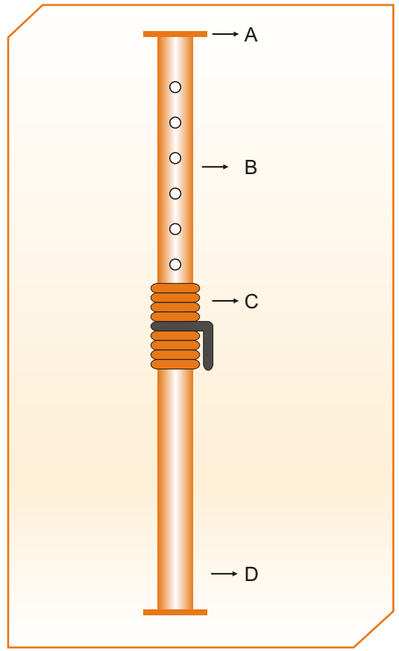
PROP PIPE SUPPORT

Standard Type I Prop Pipe Support

Maximum Height	3,900 mm
Minimum Height	2,400 mm
Inner Tube	OD 48.6 mmx WT 2 mm
Outer Tube	OD 60.5 mmx WT 2 mm
Screw	60-50 x 3.3 mm
Adjustable Collar	FCD 40 mm
Pin Adjustment	125 mm
Handle Adjustment	125 mm
No of Hole of Adjust	12 Holes
Distance between Hole to Hole	120mm
Color	Orange
Cover Type Top & Base Plate	120 x 120 x 5 (TH) mm
Safe Working Load	1500 Kgs.
Total Weight of Prop	12 Kgs.

A. Base Plate (120 x 120 x 5 mm)
B. Inner Tube (48.6 x 2 mm)
C. Threaded Part & Nut
D. Outer Tube (60.5 x 2 mm)



PACKING SYSTEM

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PROPS (EUROPEAN TYPE)

Props Multitude of Uses

Falsework support: Formwork for reinforced concrete floors & deams. Ranking Shores: To brace formwork for columns, walls & stairs. Temporary Support: For repair work, canopies, lintels & the like.

Simple & innovative construction Prop consists of: Inner-tube with welded top-plate. Outer-tube with selded base-plate. Nut & Handle. Chainless prop pin. Available in 5 sizes covering a range from 1050mm to 4900mm with axial compression working load limits ranging from 7kN to 42.5kN. (1kN= 20kg) Spare parts are available for all components & sizes.

CODE: JK-101

CHAIN LESS PROP PIN

High tensile pin with solid steel loop.
No tangled or lost chains. Reduces loss of pins on the job.

CODE: JK-102

ADJUSTABLE PROP

Outer Pipe 60.3 mm x 2.1 mm

Inner Pipe 48.3 mm x 2.1 mm

Code	Weight
JK-115	1.12 kg

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PUSH-PULL PROPS

Push-Pull Props are designed for use wherever an adjustable inclined struts is required. The push-pull prop is generally used in the construction/erection of pre-cast units and for plumbing of column and wall formwork. However they are also suitable for other industrial applications.

VERSATILE LIGHT WEIGHT TIME-SAVING

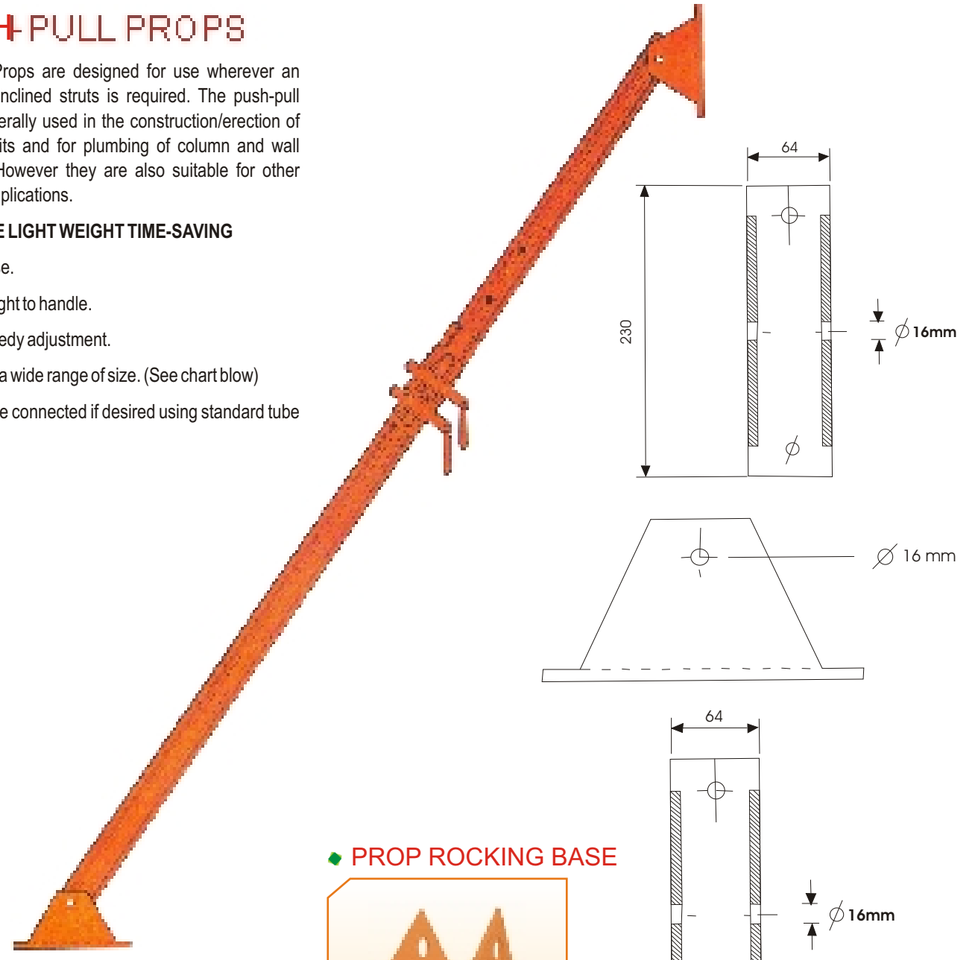
Simple to use.

Extremely light to handle.

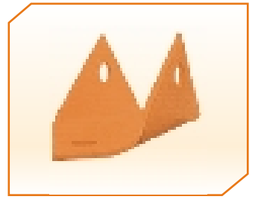
Simple, speedy adjustment.

Available in a wide range of size. (See chart blow)

Struts can be connected if desired using standard tube and fitting.



PROP ROCKING BASE



MODEL	LD / 2mm	MD / 3mm Tubes	HD / 3.6 / 4mm Tubes	HD / 3.6 /4mm tubes
Minimum Working Rang (m)	2.59	2.59	2.59	3.20
Maximum Working Rang (m)	3.90	3.90	3.90	4.88
Working (Adjustable) Rang (m)	1.30	1.30	1.30	1.68
Weight (kg) approx.s	12	18	24	30

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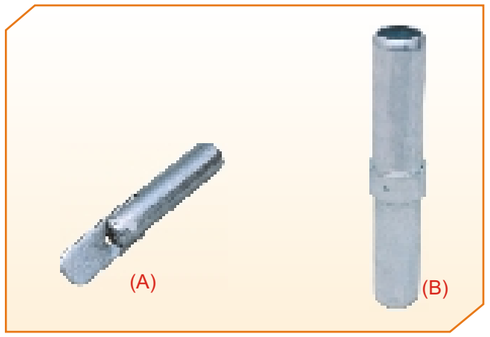
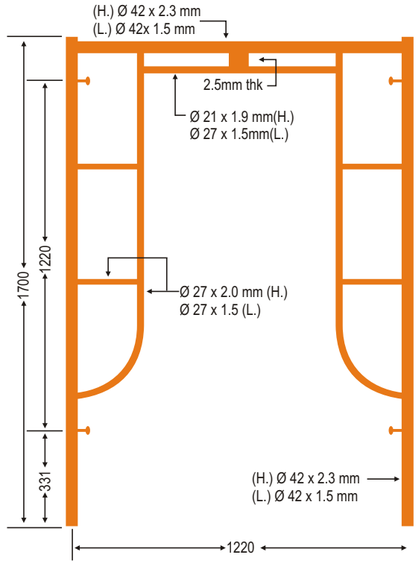
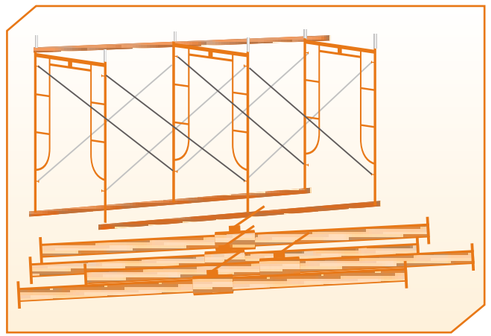
H FRAME

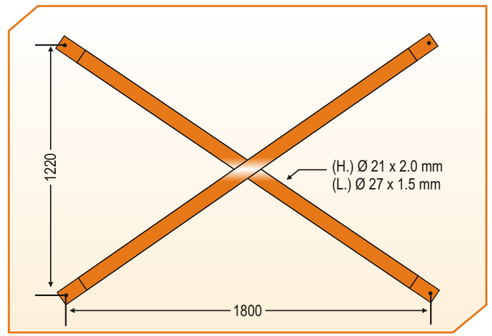


A) Brace Lock
B) Connecting Pin





A- Extended Height: 3900	B- Extended Height: 4500
Close Heigh: 2400	Close Heigh: 2800
Dimension of Pipe (mm)	Dimension of Pipe (mm)
Inner Pipe: ø 48.3 x 2.1	Inner Pipe: ø 48.3 x 2.5
Outer Pipe: ø 60.3 x 2.1	Outer Pipe: ø 60.3 x 2.0
Inner Pipe Length: 2400	Inner Pipe Length: 2800



Cross Brace

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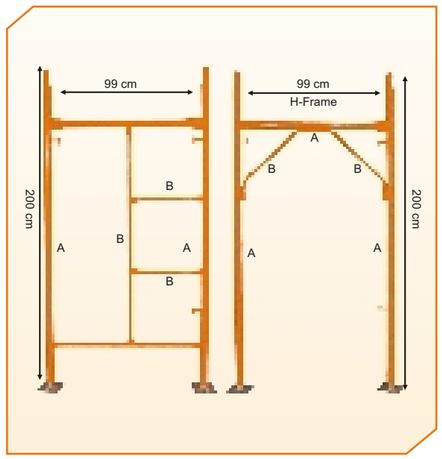
LIGHT WEIGHT FRAMES SYSTEM

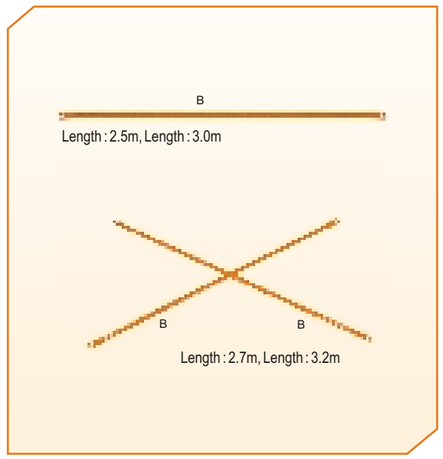
1-1. Italian System

High quality external system is designed to be easily erected and dismantled without help from professionals. The “H” frame, or vertical member, has 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 and stability. The system is designed not to include any loose fittings inside.

The external system’s have a three-way support to hold greater loads and ensure greater stability. The vertical frames (H frames) are available in side ladder type, 3 step ladder, and normal “H” shape. Non-standard sizes are available, by request, for small charge.

Code	Height	Width	Weight
JAF 01	2.0	0.99	13.70
JAF 02	2.0	0.99	15.50





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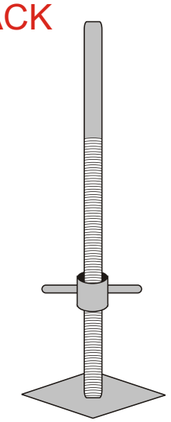
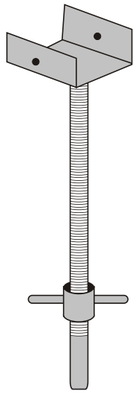
ADJUSTABLE BASE JACK



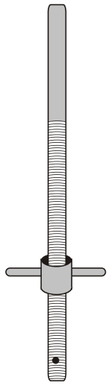
Quick and easy to use. Catering for sloping or uneven ground. With safe working load of 45 KN.

ADJUSTABLE U HEAD

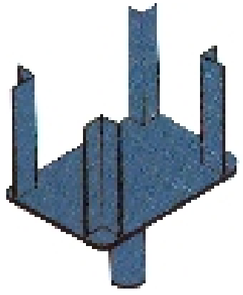


The Adjustable Forkhead can be used with a variety of traditional barers. It is manufactured from the universal jack. Safe working load is 40 kn.

UNIVERSAL JACK



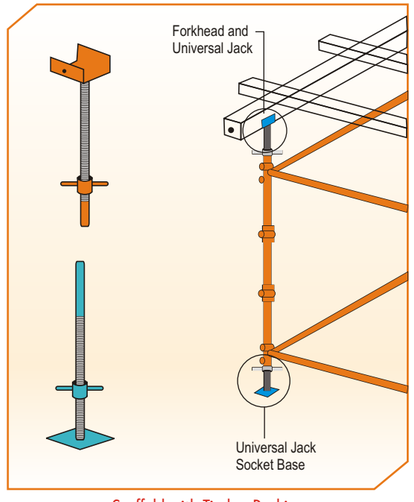
FOUR WAY FORK HEAD



The for way fork head stabilized the main beam to prevent from tilting.

Adjustment can be attained by inserting spigot jack to the socket stem.

K-LOCK



Scaffold with Timber Decking

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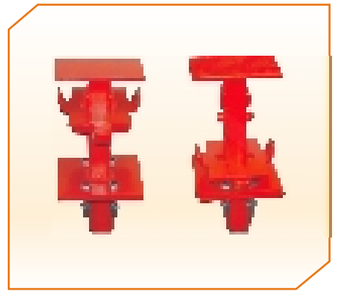
DROP HEAD



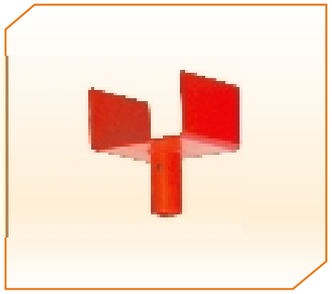
It comprises of a primary head that remains in contact with the concrete slab and a secondary head which permits early striking. The smoothly operated drophead fits on AMA lock scaffoldings and enables the removal of in fills and beams in just 3-4 days of pouring, keeping the support intact. While they have been specifically designed to keep beams from being accidentally dislodged they also provide excellent load bearing capacity of 40KN.

SOCKET BASE

It is used in conjunction with the universal jack at either the top or bottom of the structure.

Height(mm)	Weight (kg.)
110	1.4

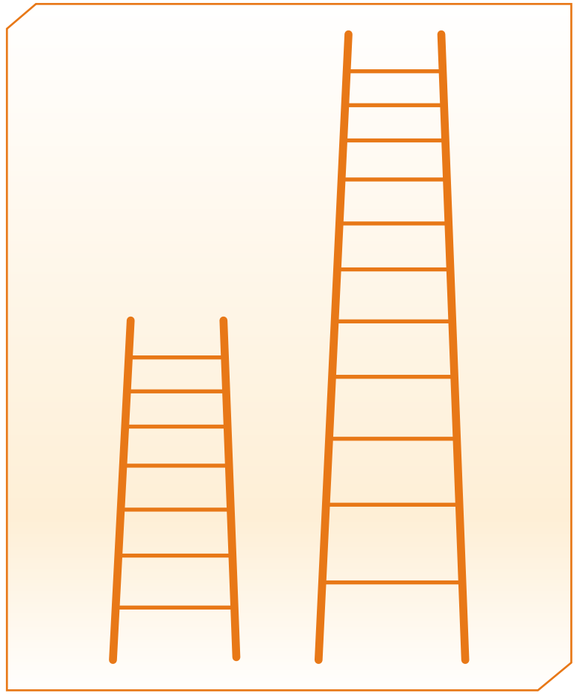
FIXED FORKHEAD



Designed to provide height adjustment to structure, by fitting onto the universal jack, when constructing with timber, aluminum or steel (singal / double) beams of 75mm width.

SCAFFOLD LADDERS

Steel Ladders are available in sizes of 2m, 3m, 4m and 6m, wherein uprights are 430 mm apart and 21 mm rungs at 280 mm centers' in full compliance with ARMACO GI 8.001



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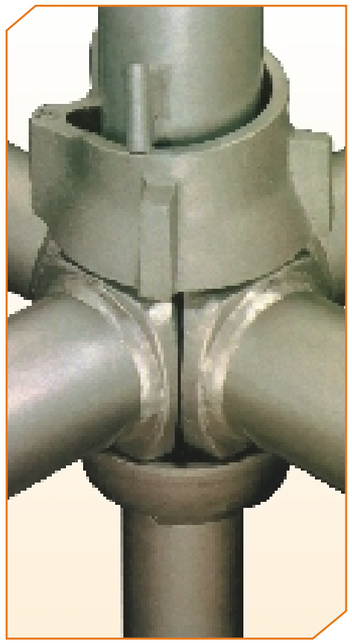
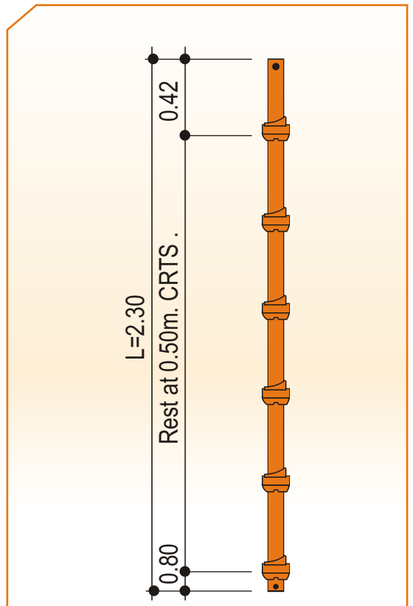
CUP LOCK SYSTEM

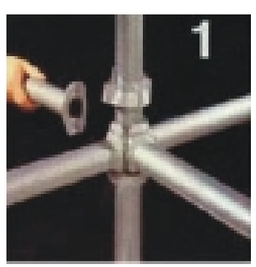


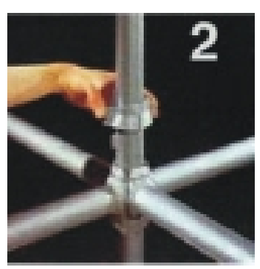
Cuplock System Fitment

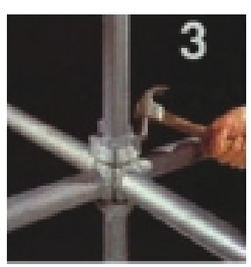
Standards

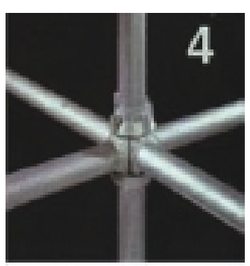
L(M)	WT(KG)
1.0	5.0
1.3	6.6
1.5	7.9
1.8	9.1
2.0	10.9
2.3	11.6
2.5	13.4
2.8	15.0
3.0	16.1











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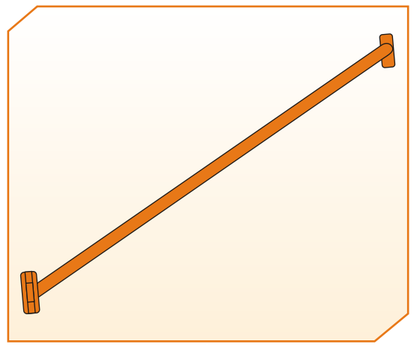
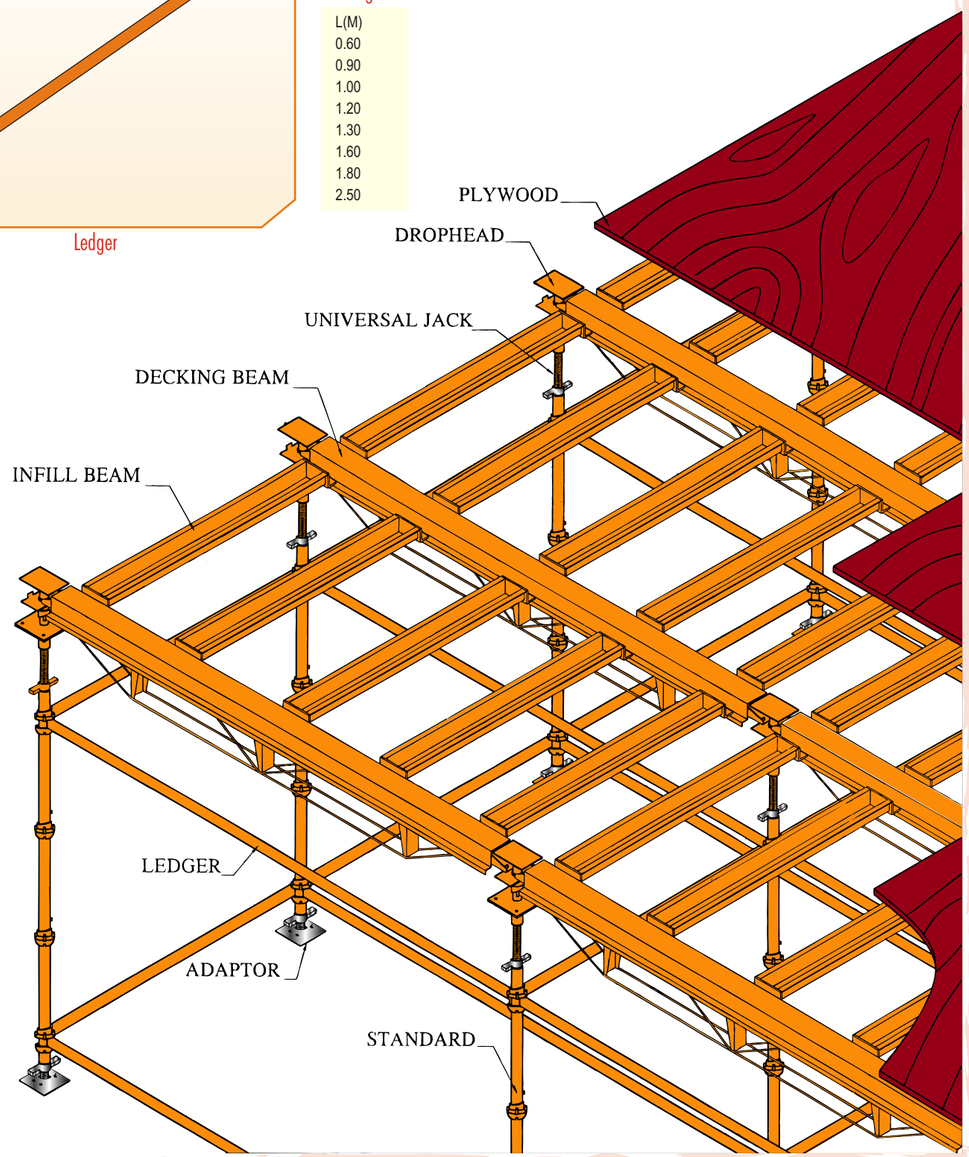


Ledger

L(M)
0.60
0.90
1.00
1.20
1.30
1.60
1.80
2.50



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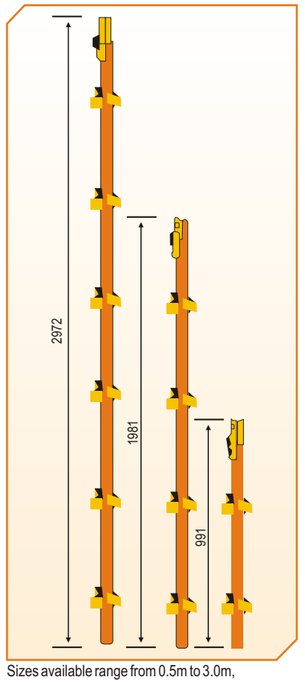
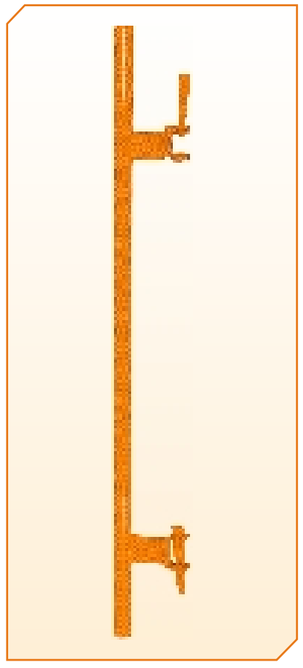
Kwickstage Stanadard

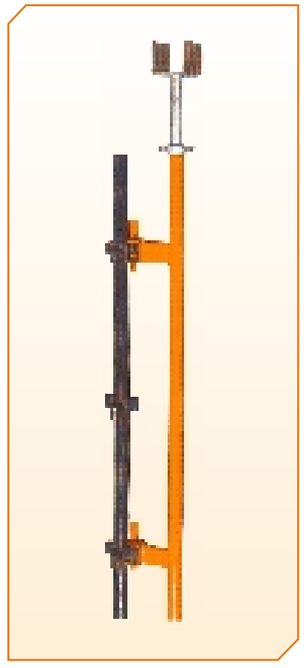


Sizes available range from 0.5m to 3.0m,
Special sizes are available upon request

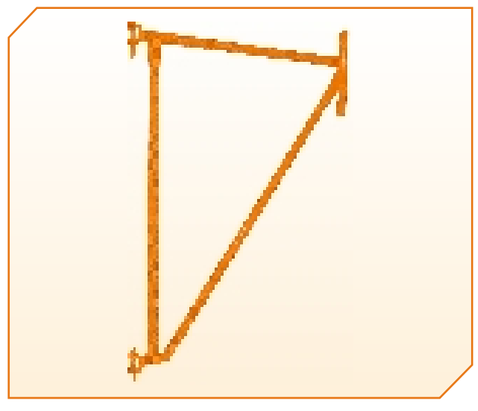
Beam Bracket



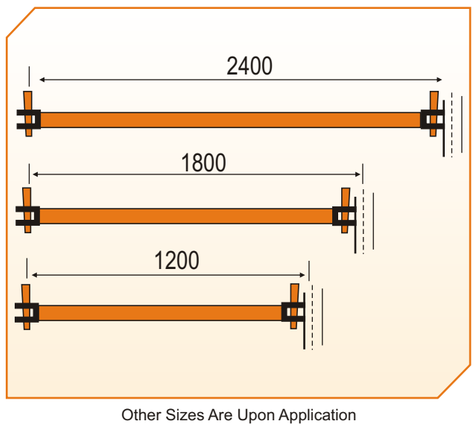
Adjustable U Head



Cantilever Frame



Qwickstage Ledger



Other Sizes Are Upon Application

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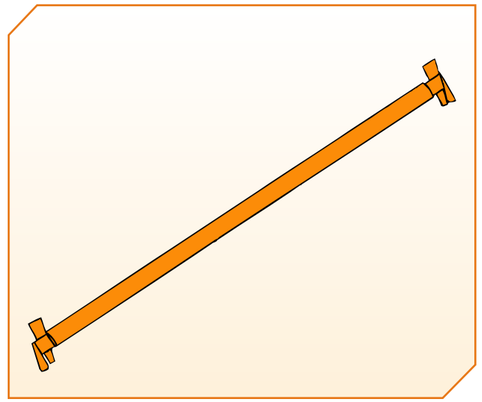
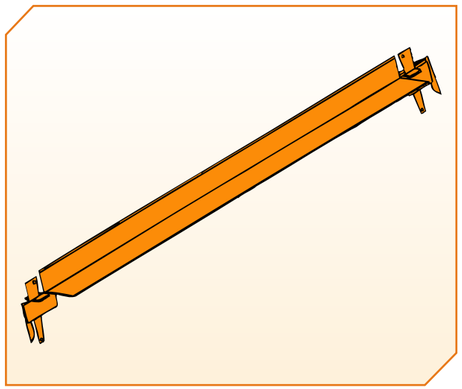
LEDGERS BANANA TYPE



The ledger is used to connect the standard in a longitudinal direction. It is made from scaffold tube with wedge 'Banana Type' fixing at each end which fits in the 'V' locating lugs on the standard. The ledger is also used as a guardrail.

Description	Weight (kg)
8'0" Ledger	11.0
6'0" Ledger	8.3
4'2" Ledger	5.9
2'8" Ledger	3.9
2'6"Ledger	3.7

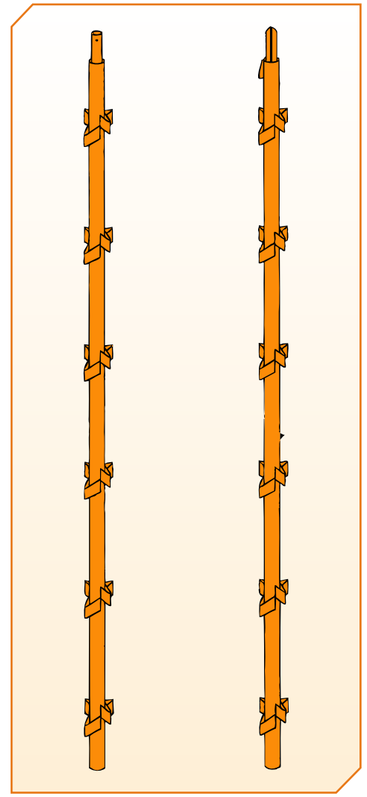
TRANSOM



Transom is either made of back-to-back anglev or T-shaped profile with the same fixing device on each end as the ledger. They are used to carry 3 or 5 numbers of steel or trimber battens and toeboard.

Description	Weight (kg)
4'2" Transom	9.6
2'8" Transom	5.9
2'6" Transom	5.5

K-STAGE ACCESS SCAFFOLD COMPONENTS STANDARDS



The standard is the vertical member of the scaffold with a spigot (either round or box type) at one end for accurate alignment. A series of 'V' locating lugs are welded on the tube for the attachment of ledgers, transoms, and auxiliary components. Open ended standards and loose spigots are also available.

Description	Weight (kg)
9'9" Standard	17.4
8'1.5" Standard	15.0
6'6" Standard	12.3
4'10.5" Standard	9.4
3'3" Standard	6.4
1'7.5" Standard	3.6

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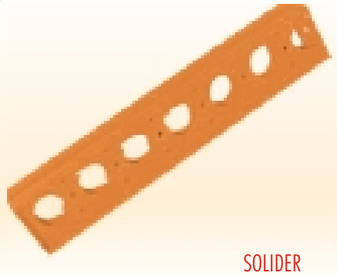
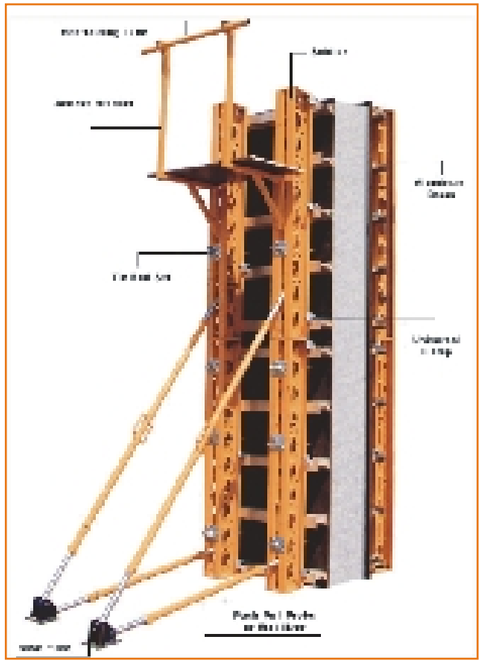
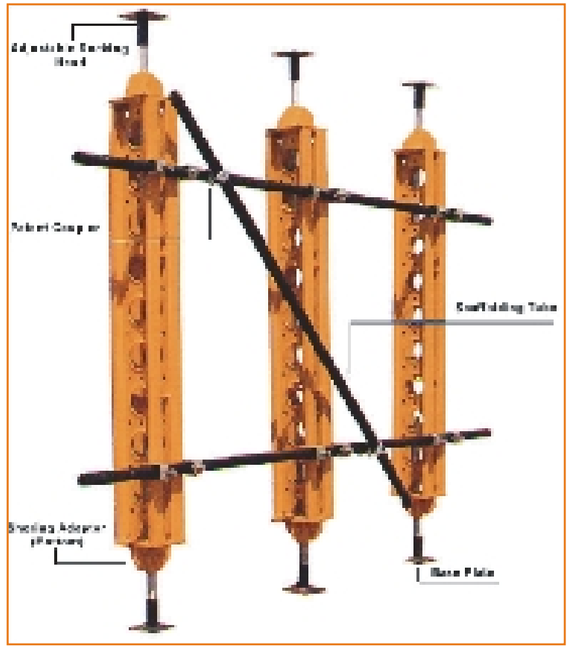
SOLIDER SYSTEM



SOLIDER





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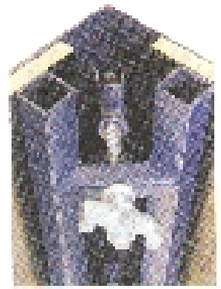
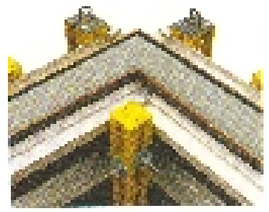
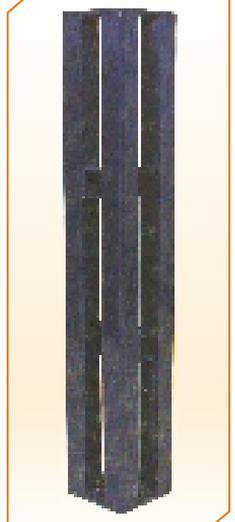
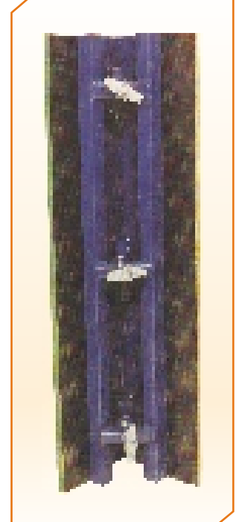
SOLIDER SYSTEM

Soldier		Corer Soldier	
Length in mm	Weight i kg	Length in mm	Weight i kg
900	17	900	20
1200	22	1200	26
2700	50	2700	58
3000	55	3000	65
3600	66	3600	78

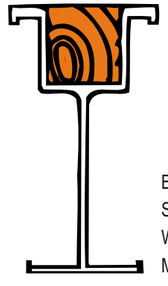






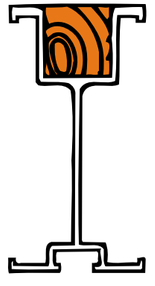


K 6 BEAM



BENDING MOMENT EXCEEDS 6 KNM
SIZE 150 x 80 MM
WEIGHT ONLY 3.162 KG /
M STANDARD LENGTHS UPTO 7 METRES

K 12 BEAM



BENDING MOMENT EXCEEDS 12 KNM
SIZE 165 x 95 MM
WEIGHT ONLY 4.750 KG / M
(DESIGNED AND PRODUCED IN GCC)

JAFCO
PIPE SUPPORT, PIPE & SCAFFOLDING

SCAFFOLDING ACCESSORIES

JAF- AC1
Double Coupler

JAF- AC2
Swivel Coupler

JAF- AC3
Putlog Coupler

JAF- AC4
Girder Coupler

JAF- AC5
Half Coupler

JAF- AC6
Sleeve Coupler

JAF- AC7
Pressed Swivel Coupler

JAF- AC8
Pressed Double Coupler (M. D.)

JAF- AC9
Single Coupler

JAF- AC10
Top Cup

JAF- AC11
Bottom Cup

JAF- AC12
Ledger Plate

JAFCO
PIPE SUPPORT, PIPE & SCAFFOLDING

SCAFFOLDING ACCESSORIES

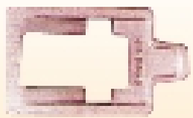
JAF- AC13
Threaded Sleeve Prop

JAF- AC14
Flange Plate

JAF- AC15
Prop Nut

JAF- AC16
Prop Pin (Korean)

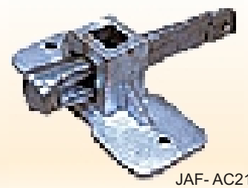
JAF- AC17
Prop Pin



JAF- AC18
Wedge Plate

JAF- AC19
Wedges for M1 Plates

JAF- AC20
Tube Clamp



JAF- AC21
Steel Clap (Rapid)

JAF- AC22
Base Plate

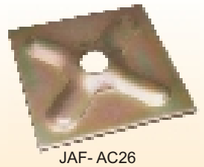
JAF- AC23
Timber Waling Clamp

JAF- AC24
Universal Clamp

JAFCO
PIPE SUPPORT, PIPE & SCAFFOLDING

SCAFFOLDING ACCESSORIES

JAF- AC25
Tie Rod
Available in various length from 1 mtr. upto 6 mtr.

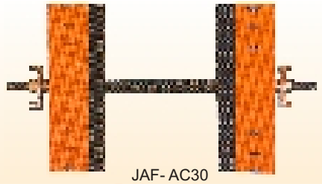


JAF- AC26
Whaler Plate
Heavy duty reinforced plate of 120 x 120mm with thickness from 4 mm upto 10 mm.

JAF- AC27
Wing Nut
Malleable casted nut used with whaler plate for all soldier or Wailing applications.

JAF- AC28
Water Stopper
Malleable casted nut used as a connect between two tie rods.

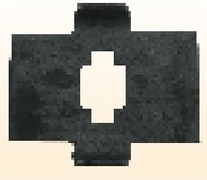
JAF- AC29
Nader Stopper/Anchor Nut
Malleable casted nut used with tie rod.



JAF- AC30
Tie Arrangement

JAF- AC31
Rectangular Spigot Connector

JAF- AC32
Prop Rocking Base



JAF- AC33
Base

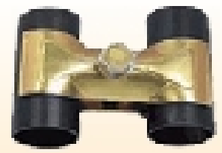
JAFCO
PIPE SUPPORT, PIPE & SCAFFOLDING

SCAFFOLDING ACCESSORIES

JAF- AC34
Brace Lock

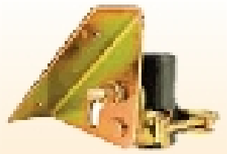
JAF- AC35
Lock

JAF- AC36
Jack Nut



JAF- AC37
Fencing Coupler

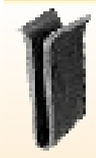
JAF- AC38
Putlog Head Adaptor



JAF- AC39
Staircase Coupler

JAF- AC40
Rapid Tensioner

JAF- AC41
Wedge



JAF- AC42
Bracket

JAF- AC43
Banana

JAF- AC44
V-Pressing

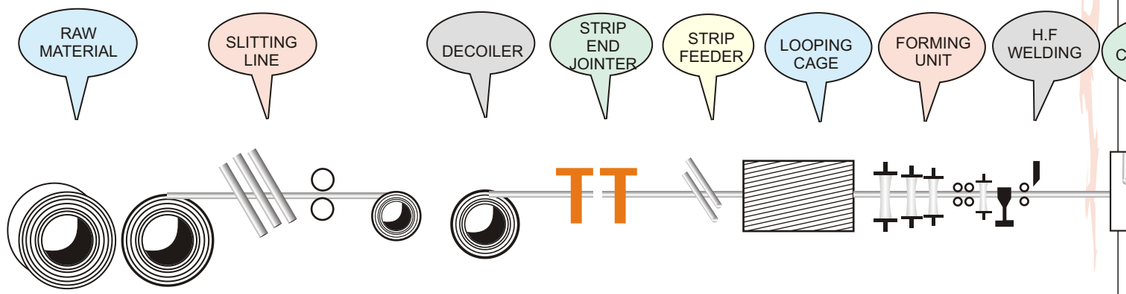
JAF- AC45
Spigot

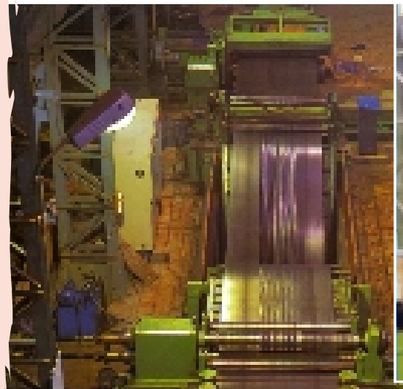
JAF- AC46
Ledger End

JAF- AC47
Box Wedge

JAFCO
PIPE SUPPORT, PIPE & SCAFFOLDING

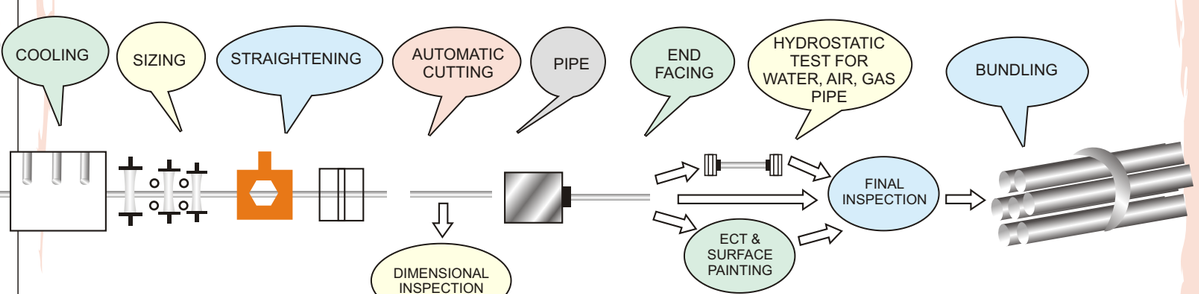
LINE CHART





JAFCO
PIPE SUPPORT, PIPE & SCAFFOLDING

LINE CHART



JAFCO
PIPE SUPPORT, PIPE & SCAFFOLDING

TECHNICAL DATA OF BLACK AND GALVANIZED STEEL PIPES CONFORMING TO BS: 1387 OF 1985

Class	Nominal Bore		Outside Diameter		Wall Thickness	Weight of Black Pipes		Weight of Galvanized Pipes (calculated)		No. of Pipes Packed Per Standard Bundle
			MAX.	MIN.		Plain Ended	Screwed & Socketed	Plain Ended	Screwed & Socketed	
	Inch	mm	mm	mm	mm	Kg / mtr	Kg / mtr	Kg / mtr	Kg / mtr	
Light (A)	1/2	15	21.400	21.00	2.00	0.947	0.956	0.995	1.004	150
	3/4	20	26.900	26.40	2.30	1.380	1.390	1.440	1.451	105
	1	25	33.800	33.20	2.60	1.980	2.000	2.058	2.078	70
	1.1/4	32	42.500	41.90	2.60	2.540	2.570	2.640	2.670	48
	1.1/2	40	48.400	47.80	2.90	3.230	3.270	3.344	3.384	42
	2	50	60.200	59.60	2.90	4.080	4.150	4.223	4.293	30
	2.1/2	65	76.000	75.20	3.20	5.710	5.830	5.892	6.012	25
	3	80	88.700	87.90	3.20	6.720	6.890	6.934	7.104	20
	4	100	113.900	113.00	3.60	9.750	10.000	10.026	10.276	10
Medium (B)	1/2	15	21.700	21.10	2.60	1.210	1.220	1.257	1.266	150
	3/4	20	27.200	26.60	2.60	1.560	1.570	1.621	1.631	105
	1	25	34.200	33.40	3.20	2.410	2.430	2.487	2.507	70
	1.1/4	32	42.900	42.10	3.20	3.100	3.130	3.200	3.230	48
	1.1/2	40	48.800	48.00	3.20	3.570	3.610	3.684	3.724	42
	2	50	60.800	59.80	3.60	5.030	5.100	5.172	5.242	30
	2.1/2	65	76.600	75.40	3.60	6.430	6.550	6.612	6.732	25
	3	80	89.500	88.10	4.00	8.370	8.540	8.583	8.753	20
	4	100	114.900	113.30	4.50	12.200	12.500	12.476	12.726	10
	5	125	140.600	138.70	5.00	16.600	17.100	16.938	17.438	10
	6	150	166.100	164.10	5.00	19.700	19.700	20.102	20.702	10
Heavy (C)	1/2	15	21.700	21.10	3.20	1.440	1.450	1.486	1.495	150
	3/4	20	27.200	26.60	3.20	1.870	1.880	1.930	1.940	105
	1	25	34.200	33.40	4.00	2.940	2.960	3.015	3.035	70
	1.1/4	32	42.900	42.10	4.00	3.800	3.830	3.897	3.927	48
	1.1/2	40	48.800	48.00	4.00	4.380	4.420	4.492	4.532	42
	2	50	60.800	59.80	4.50	6.190	6.260	6.330	6.400	30
	2.1/2	65	76.600	75.40	4.50	7.930	8.050	8.110	8.230	25
	3	80	89.500	88.10	5.00	10.300	10.500	10.510	10.680	20
	4	100	114.900	113.30	5.40	14.500	14.800	14.774	15.024	10
	5	125	140.600	138.70	5.40	17.900	18.400	18.238	18.738	10
	6	150	166.100	164.10	5.40	21.300	21.900	21.702	22.302	10

TECHNICAL DATA OF BS : 1387 OF 1985

TOLERANCES:
OUTSIDE DIAMETER As per Table-1

MECHANICAL PROPERTIES

YIELD STRENGTH	:	195 N/mm2 (Min)
TENSILE STRENGTH	:	320-460 N/ mm2
ELONGATION	:	20% (Min) on Gauge Length 5.65 x Sq. Root of Cross Sectional Area

COLOR CODING

LIGHT	MEDIUM	HEAVY
Brown	Green/Blue	Red

THICKNESS

LIGHT	MEDIUM	HEAVY
-8%	-10%	-10%

WEIGHT Single Tube -8/% / +10%

CHEMICAL PROPERTIES

% C (Max)	% Mn (Max)	% P (Max)	% S (Max)
0.20	1.20	0.045	0.045

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PIPE SUPPORT, PIPE & SCAFFOLDING

TECHNICAL DATA FOR METAL SCAFFOLDING AS PER SPECIFICATION BS EN 39 : 2001 (BS1139)

Outside Diameter		Thickness		Weight per unit length	
Inches	mm	Inches	mm	Lbs / Foot	Kg / M
1.1/2" 1.1/2"	48.3 48.3	0.126 0.157	3.20 4.00	2.392 2.937	3.56 4.37

TOLERANCES

Outside Diameter	Thickness	Weight per unit length
+ 0.5mm	-10%	- 7.5% On Single Tube

STEEL GRADE : S235GT
CHEMICAL COMPOSITION

% C (Max)	% SI (Max)	% Mn (Max)	% P (Max)	% S (Max)	% Al (Max)
0.2	0.05	1.4	0.040	0.045	0.020

MECHANICAL PROPERTIES

YIELD STRENGTH	:	235 MPa (Min)
TENSILE STRENGTH	:	340-520 MPa
ELONGATION	:	24% (Min) ON Gauge Length 5.65 x Sq. Root of Cross Sectional Area
END FINISH	:	Square Cut
STRAIGHTNESS	:	1 mm in 500 mm length.
FLATTENING TEST		
a. For Weld Test	:	Flatten up to 75% of Original Tube OD
b. For Material other than Weld	:	Flatten up to 60% of Original Tube OD
ZINC COATING	:	40 Microns Minimum Outside

TECHNICAL DATA OF BLACK AND HOT DIP GALVANIZED STEEL PIPES CONFORMING TO ASTM A 53 GRADE A & B SCH-40

Nominal Pipe Size		Outside Diameter Standard		Wall Thickness Standard		Weight Of Black Pipes Plain End				Test Pressure				Socket Dimensions				No. of Pcs Per Lift
										Grade A		Grade B		Min Outside Dia		Min Length		
Inch	mm	Inch	mm	Inch	mm	Kg/mtr	Mtr/ton	Lb/ft	Ft/ton	PSI	KPA	PSI	KPA	Inch	mm	Inch	mm	
1/2"	15	0.840	21.30	0.109	2.77	1.27	787	0.85	2583	700	4800	700	4800	1.603	27.0	1.500	38.1	120
3/4"	20	1.053	26.70	0.113	2.87	1.69	592	1.13	1941	700	4800	700	4800	1.313	33.4	1.563	39.7	84
1"	25	1.315	33.40	0.113	3.38	2.50	400	1.68	1312	700	4800	700	4800	1.576	40.0	1.938	49.2	60
1.1/4"	32	1.660	42.20	0.140	3.56	3.39	295	2.27	968	1200	8300	1300	9000	1.900	48.3	2.000	50.8	42
1.1/2"	40	1.900	48.30	0.145	3.68	4.05	247	2.72	810	1200	8300	1300	9000	2.200	55.9	2.000	50.8	36
2	50	2.375	60.30	0.154	3.91	5.44	184	3.66	603	2300	15900	2500	17200	2.750	69.8	2.063	52.4	26
2.1/2"	65	2.875	73.00	0.203	5.16	8.63	116	5.80	380	2500	17200	2500	17200	3.250	82.5	3.063	77.8	18
3"	80	3.500	88.90	0.216	5.49	11.29	89	7.58	291	2220	15300	2500	17200	4.000	101.6	3.188	81.0	14
3.1/2"	90	4.000	101.60	0.226	5.74	13.57	74	9.12	242	2030	14000	2370	16300	4.625	117.5	3.313	84.1	12
4"	100	4.500	114.30	0.237	6.02	16.07	62	10.80	204	1900	13100	2210	15200	5.000	127.0	3.438	87.3	10
5"	125	5.563	141.30	0.258	6.55	21.77	46	14.63	151	1670	11500	1950	13400	6.296	159.9	3.688	93.7	7
6"	150	6.625	168.30	0.280	7.11	28.26	35	18.99	116	1520	10500	1780	12300	7.390	187.7	4.938	125.4	7

CHEMICAL COMPOSITION (% MAX)

Element	Carbon C	Manganese Mn	Phosphorus P	Sulphur S	Copper Cu	Nickel Ni	Chromium Cr	Molybdenum Mo	Vanadium V
GRADE-A	0.25	0.95	0.05	0.045	0.40	0.40	0.40	0.15	0.08
GRADE-B	0.30	1.20	0.05	0.045	0.40	0.40	0.40	0.15	0.08

HEAT TREATMENT – Weld seam of the ERW pipe in Grade-B shall be heat treated after welding to a minimum temperature of 1000o F[540 o C] so that no untempered martensite remains.

JAFCO
PIPE SUPPORT, PIPE & SCAFFOLDING

MECHANICAL PROPERTIES

Properties	Tensile Strength psi	Tensile Strength Mpa	Yield Strength psi	Yield Strength Mpa
Grade - A	48000	330	30000	205
Grade - B	60000	415	35000	240

TOLERANCES OUTSIDE DIAMETER

Size From Inch	Size From mm	Size To Inch	Size To mm	Tolerance Inch(mm) Negative	Tolerance Inch(mm) Positive
½	15	1½	40	1/64 (0.40)	1/64 (0.40)
1	50	6	150	1 % OF OD	1 % OF OD

THICKNESS : 12.5% max under the nominal wall thickness.
WEIGHT : + / - 10% on calculated standard weight.
END FINISH Square Cut Ends for sizes less than or equal to 1.1/2" NPS Beveled Ends at L 30o – 0o / +5 o for sizes 2" NPS and above.

ZINC COATING
MINIMUM : 1.60 oz / ft2 [490 Gm/Mtr2]
AVERAGE : 1.80 oz / ft2 [550 Gm/Mtr2]

TECHNICAL DATA OF BLACK AND HOT DIP GALVANIZED STEEL PIPES CONFORMING TO ASTM A 135/ A 795 GRADE A & B

Nominal Pipe Size		Outside Diameter Standard		Wall Thickness Standard		Weight Of Black Pipes Plain End Pipes				Test Pressure	
Inch	mm	Inch	mm	Inch	mm	KG/MTR	MTR/TON	LB/FT	FT/TON	PSI	KPA
3/4"	20	1.050	26.7	0.083	2.11	1.28	781	0.86	2562	700	4830
1"	25	1.315	33.4	0.109	2.77	2.09	478	1.41	1568	700	4830
1.1/4"	32	1.660	42.2	0.109	2.77	2.69	372	1.81	1221	1000	6890
1.1/2"	40	1.900	48.3	0.109	2.77	3.11	322	2.09	1056	1000	6890
2"	50	2.375	60.3	0.109	2.77	3.93	254	2.64	833	1000	6890
2.1/2"	65	2.875	73.0	0.120	3.05	5.26	190	3.53	623	1000	6890
3"	80	3.500	88.9	0.120	3.05	6.46	155	4.34	509	1000	6890
3.1/2"	90	4.000	101.6	0.120	3.05	7.41	135	4.98	443	1200	8270
4"	100	4.500	114.3	0.120	3.05	8.37	119	5.62	390	1200	8270
5"	125	5.563	141.3	0.134	3.40	11.58	86	7.78	283	1200	8270
6"	150	6.625	168.3	0.134	3.40	13.85	72	9.30	237	1000	6890

CHEMICAL PROPERTIES

Element	Carbon C	Manganese Mn	Phosphorus P	Sulphur S
Grade - A	0.25	0.95	0.035	0.035
Grade - B	0.30	1.20	0.035	0.035

MECHANICAL PROPERTIES

Properties	Tensile Strength psi	Tensile Strength Mpa	Yield Strength psi	Yield Strength Mpa
Grade - A	48000	330	30000	205
Grade - B	60000	415	35000	240

Min percentage elongation in 2"(50mm) is
% El (Grade – A) = 56t + 16.5
% El (Grade – B) = 48t + 14
Where t = specified wall thickness (inch)

HEAT TREATMENT
Weld seam of ERW pipe in Grade-B shall be heat treated after welding to minimum temperature of 1000o F[540o C] so that no untempered martensite remains.

ZINC COZTING
MINIMUM : 1.30 oz / ft2 [400 Gm/Mtr2]
AVERAGE : 1.50 oz / ft2 [460 Gm/Mtr2]

FLATTENING TEST
STAGE-1: For weld ductility until 2/3 of outside dia of specimen tube
STAGE-2: For ductility of steel until 1/3 of outside dia of specimen tube.
STAGE-3: For flattening for testing of laminated and unsound material.

THICKNESS
12.5% max under the nominal wall thickness.

WEIGHT
+/-10% on calculated standard nominal weight.

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PIPE SUPPORT, PIPE & SCAFFOLDING

MS ROUND PIPE DIMENSION AND WEIGHT DATA

Normal Bore		Thickness(mm)	CALCULATED WEIGHT OF PLAIN END PIPE (Kg / 6 Mtr)								
Inch	mm	O.D (mm)	1 mm	1 .2 mm	1 .5 mm	1 .8 mm	2 mm	2.5 mm	3 mm	4 mm	5 mm
1/2"	15	21.3	3.006	3.570	4.392	5.196	5.682	6.954	8.124	10.242	12.060
3/4"	20	26.9	3.804	4.530	5.592	6.630	7.308	8.952	10.518	13.434	16.056
1"	25	33.7	4.836	5.772	7.146	8.496	9.384	11.544	13.626	17.640	21.234
11/4"	32	42.3	6.126	7.314	9.078	10.812	11.958	14.760	17.490	22.800	27.672
11/2"	40	48.3	6.996	8.364	10.386	12.384	13.704	16.944	20.106	26.280	32.034
2"	50	60.3	8.772	10.494	13.050	15.582	17.256	21.384	25.434	33.324	40.914
21/2"	65	76.1			16.560	19.788	21.930	27.228	32.448	42.672	52.602
3"	80	88.7			19.398	23.196	25.716	31.962	38.130	50.220	61.800
4"	100	113.9			25.038	29.964	33.234	41.358	49.404	65.286	80.868

STANDARD LENGTH : 6 METERS TOLERANCES

(A) OUT SIDE DIAMETER
*50 MM AND BELOW = + 0.50mm
ABOVE 50 MM = + 1%
(B) LENGTH = + 50MM - 00MM
(D) THICKNESS = + 10%

SQUARE & RECTANGULAR TUBES DIMENSION AND WEIGHT DATA

Wall Thickness (mm)	CALCULATED WEIGHT (Kg / Mtr)							
Nominal Size (O.D)	1.0 mm	1.2 mm	1.5 mm	1.8 mm	2.0 mm	3.0 mm	4.0 mm	5.0 mm
12x12	1.950	2.280	2.700	3.070	3.300			
16x16	2.700	3.180	3.825	4.430	4.790			
19x19		3.852	4.674	5.442	5.922	7.950		
25x25		5.208	6.366	7.476	8.184	11.346	13.884	
30x30		6.336	7.781	9.170	10.065	14.169	17.653	20.519
31x31		6.564	8.064	9.510	10.440	14.736	18.408	21.462
38x38		8.148	10.044	11.886	13.080	18.690	23.682	28.056
40x40		8.600	10.607	12.561	13.833	19.821	25.190	29.939
50x50		10.860	13.434	15.954	17.604	25.476	32.724	39.360
60x60			17.106	20.364	22.500	32.820	42.522	51.606
75x75			20.496	24.432	27.024	39.606	51.564	62.910
50x25		8.034	9.900	11.712	12.894	18.408	23.304	27.582
60x30		9.726	12.018	14.256	15.720	22.650	28.956	34.650
80x40		13.116	16.260	19.344	21.372	31.128	40.260	48.780
100x50		16.512	20.496	24.432	27.024	39.606	51.564	62.910

STANDARD LENGTH : 6 METERS TOLERANCES

OUT SIDE LARGEST FLAT DIMENSION
30 MM AND UNDER = + 0.20MM
OVER 30 MM = + 0.5%
THICKNESS = + 10%
STRAIGHTNESS = Deviation Not Exceed 0.2% of Whole Length
LENGTH = +50MM -00M

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NOTES