

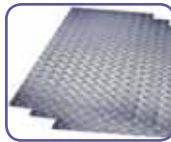
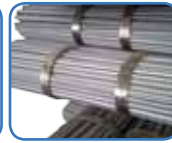


ELECTRICAL



SANITARY

BUILDING MATERIAL



STRUCTURAL STEEL

SWITCH GEAR



CONTAINER LASHING

FABRICATION



SCAFFOLDING



مؤسسة حنيفة الهندسية

HANIFA ENGINEERING EST.

One store for hardware, electrical and lots more

Company Profile

Company Introduction:-

Located in the Emirate of Sharjah (U.A.E.) **HANIFA ENGINEERING EST.** is one of the leading suppliers of Building-Material, Hardware, Electrical, Sanitary and Electronic accessories. Established in 1978, **HANIFA ENGINEERING EST.** emerged out of the vision of the United Arab Emirates growing to become a vital business and tourist center of the Middle East. Primarily aimed at catering to the strong building material market, **HANIFA ENGINEERING EST.** acquired the highly responsible role as a distributor to some leading building material brands of the world. Though widely recognized as a distributor and retailer of well known global building material brands, **HANIFA ENGINEERING EST.** is also acclaimed as a dependable provider of professional and commercial building material products and services. In many respects the growth and accomplishments of **HANIFA ENGINEERING EST.** seems parallel to the growth of the United Arab Emirates. By continually improving and setting new standards in the quality of its services and support, **HANIFA ENGINEERING EST.** has been successfully meeting customer expectations in an environment that is rapidly changing. From its onset, it has supplied its quality products to more than 8000 projects in construction, commercial and industrial sectors in U.A.E. and abroad. **HANIFA ENGINEERING EST.** is a growing organization since it started its operations 33 years ago; it has achieved a phenomenal growth of more than 300 times. In pursuit of its growth strategies, it has been investing heavily on diversification of operations and promotional plans.

HANIFA ENGINEERING EST. imports many high quality products and distributes them within U.A.E. as well as many other countries in the Middle East and Africa. Our highly qualified and trained staff is ready to serve and support you at any location within the U.A.E.

We are also the authorized distributor and representatives of many reputed brand like Phillips Lighting, Dewalt Power Tools, Indoasain Switchgear, Sharjah Cable, LG Electricals, Taparia Hand Tools, etc.

By establishing business with us, you can be sure of receiving high quality products, material delivery, logistic support, field demonstrations and training, as well as full technical advice.

HANIFA ENGINEERING EST. is part of **HANEEFA GROUP OF COMPANIES.** The HANEEFA GROUP operates a number of other business ventures like switchgear, fabrication, scaffoldings, electrical, container latching equipment, electronics, construction, real estate etc. Listed below is a brief introduction of some of the companies under the banner of HANEEFA GROUP.

MSC Marine & Oil-Field Supplies (Dubai, U.A.E.):

- We are also supplying Marine and Oil-Field related items to various shipping companies and oil-fields, among the items supplied are all types of valves such as gate valves, check valves, ball valves, reducer valves, etc. All such items are supplied as per specification and with test certificates. Other items include pipes, tubes, bolts, screws, hand tools, cutting tools, power tools, cables, panels etc.

Indus Plastic Industries (Ajman, U.A.E.):

- Manufacturers of all types of PVC Pipes i.e. PVC Conduit pipes, UPVC Pipes, SCH 40 Pipes, etc
- Bends, Couplings and all other accessories are also available.

Mercantile Shipping Corporation (Mumbai, India):

- Manufacturing of container locks and latching equipment.

Vimaco Construction Pvt. Ltd. (Nagpur, India):

- Construction of commercial and residential buildings (licensed up to 10 floors)

Vimaco Real Estate Pvt. Ltd. (Nagpur, India):

- Leasing rental and sale of commercial and residential structures within the state of Maharashtra, India.

Beluga Plastic Industries (Nagpur, India):

- Manufacturing of nylon ropes and threads.

ERA Rubber Industries Pvt. Ltd. (Mumbai, India):

- Manufacturing of all types of rubber products and accessories.

Paris Electro Mechanical Contracting (Sharjah, U.A.E.):

- Fully equipped switchgear industry permitted to manufacture LV panels up to 6000A

Al Amin Book Shop (Sharjah, U.A.E.):

- Retail and wholesale of all types of office equipment and stationary.

Hanifa Engineering And Turning Est. (Sharjah, U.A.E.):

- We undertake all types of fabrication work in Mild Steel, Stainless Steel and Aluminum.
- Cutting and bending of sheets and pipes.
- Fabrication of hand rails, mezzanines, tables, canopies, flanges etc as per customer requirement.
- Manufacturing and trading of scaffolding material.

Haneefa Trading Est. (Sharjah, U.A.E.):

- A general trading company dealing in retail and wholesale of electrical appliances and electronics
- Registered owner of "Swiss Time" brand of wrist watches

ELECTRICAL

Electrical Accessories

"Imagination has brought mankind through the dark ages to its present civilization. Imagination led Columbus to discover America, Copernicus to discover the shape of the earth and Gilbert to discover electricity."

The switch that lights up the lamp in your home, the cable that keeps a heart pump going, the control equipment that keep your air-conditioner running, the electrical solutions that keeps life on the move.

We at Hanifa Engineering Est. have partnered with the world's best brands to empower you with solutions in end to end LV electrical systems including design and support where necessary.

Our Products:

- Wiring Accessories
- Circuit Protection and Control Equipment's.
- Commercial, Domestic and Industrial Cable Management Applications
- Industrial Plugs & Sockets
- Earthing System & Lightning Protection
- Cable Trays, Trunking & Ladders
- Cable Joint Kits & Accessories
- GI Conduits & Trunking
- Switch Gear & Control Gear
- Cables and Accessories
- Industrial and domestic electrical accessories
- ETC.



SANITARY

Sanitary Ware

Hanifa Engineering Est. is one of the leading Building Materials companies operating since 1978 in the U.A.E., and dealing in an extensive product mix, comprising of reliable brands in building materials, electrical, sanitary ware and plumbing products from various countries.

In each product category, different qualities are available to suit the requirements of various levels of the market. All your project requirements can be met at one go, under one roof. The extensive range of products, cater to various levels of the market starting with commercial buildings to luxury villas to fancy shopping complexes. We are also engaged in the manufacturing of PVC pipes of various thicknesses and lengths. Our products range between "19 mm to 160 mm diameter for electrical" and "1/2" to 6" diameter for drainage and water lines".

Our Products:

- Basin and bath mixers
- Tubs and
- Shower trays,
- Water heaters
- PVC pipes and fittings
- GI pipes and fittings
- Plumbing brassware,
- Manhole covers
- Ceramic tiles
- building adhesives
- ETC.



American Wire Gauge (AWG)	Diameter (inches)	Diameter (mm)	Cross Sectional Area (mm ²)	American Wire Gauge (AWG)	Diameter (inches)	Diameter (mm)	Cross Sectional Area (mm ²)
0000	0.46	11.68	107.16	12	0.0808	2.05	3.31
000	0.4096	10.40	84.97	13	0.072	1.83	2.63
00	0.3648	9.27	67.40	14	0.0641	1.63	2.08
0	0.3249	8.25	53.46	15	0.0571	1.45	1.65
1	0.2893	7.35	42.39	16	0.0508	1.29	1.31
2	0.2576	6.54	33.61	17	0.0453	1.15	1.04
3	0.2294	5.83	26.65	18	0.0403	1.02	0.82
4	0.2043	5.19	21.14	19	0.0359	0.91	0.65
5	0.1819	4.62	16.76	20	0.032	0.81	0.52
6	0.162	4.11	13.29	21	0.0285	0.72	0.41
7	0.1443	3.67	10.55	22	0.0254	0.65	0.33
8	0.1285	3.26	8.36	23	0.0226	0.57	0.26
9	0.1144	2.91	6.63	24	0.0201	0.51	0.20
10	0.1019	2.59	5.26	25	0.0179	0.45	0.16
11	0.0907	2.30	4.17	26	0.0159	0.40	0.13

Milimeter Sqare	Centimeter Sqare	Meter Sqare	Inch Sqare	Foot Sqare	Yard Sqare
mm ²	cm ²	m ²	in ²	ft ²	yd ²
1	0.01	0.000001	0.00155	0.000011	0.000001
100	1	0.0001	0.155	0.001076	0.00012
1000000	10000	1	1550.003	10.76391	1.19599
645.16	6.4516	0.000645	1	0.006944	0.000772
92903	929.0304	0.092903	144	1	0.111111
836127	8361.274	0.836127	1296	9	1

Centimeter cube	Meter cube	Liter	Inch cube	Foot cube	US Gallons	Imperial Gallons	US barrel (oil)
cm ³	m ³	ltr	in ³	ft ³	Us gal	Imp. gal	Us brl
1	0.000001	0.001	0.061024	0.000035	0.000264	0.00022	0.000006
1000000	1	1000	61024	35	264	220	6.29
1000	0.001	1	61	0.035	0.264201	0.22	0.00629
16.4	0.000016	0.016387	1	0.000579	0.004329	0.003605	0.000103
28317	0.028317	28.31685	1728	1	7.481333	6.229712	0.178127
3785	0.003785	3.79	231	0.13	1	0.832701	0.02381
4545	0.004545	4.55	277	0.16	1.20	1	0.028593
158970	0.15897	159	9701	6	42	35	1

Bar	Pound/Square inch	Kilopascal	Megapascal	Kilogram force/centimeter square	Milimeter of mercury	Atmospheres
bar	psi	kPa	MPa	kgf/cm ²	mm Hg	atm
1	14.50326	100	0.1	1.01968	750.0188	0.987167
0.06895	1	6.895	0.006895	0.070307	51.71379	0.068065
0.01	0.1450	1	0.001	0.01020	7.5002	0.00987
10	145.03	1000	1	10.197	7500.2	9.8717
0.9807	14.22335	98.07	0.09807	1	735.5434	0.968115
0.001333	0.019337	0.13333	0.000133	0.00136	1	0.001316
1.013	14.69181	101.3	0.1013	1.032936	759.769	1

Building Material

Building Material & General Hardware

Since our inauguration in 1978 Hanifa Engineering Est. has been serving the construction, engineering, oil & gas, power generation, petrochemical, hoteling and other high tech industries. Our knowledge, experience, and background in these hardware and building material consumers allows us to offer some of the most comprehensive decorative and functional hardware and building material programs in the country.

We deal in a wide range of hardware and building material products and are proud, dealers and channel partners of numerous reputed and trusted brands in the U.A.E.

Distributors & Stockiest of:

- Hand Tools: Taparia, Stanley, Great Neck, Exel, Etc.
- Power Tools: Dewalt, Makita, Dynamik, Ferm, Etc.
- Welding Accessories: Victor, Morris, Tweco, Etc.
- Abrasives: Rasta, Cumiflex, Duke, Etc.
- Safety Products: Focus, Vaultex, Etc.
- Machinery: Telwin, Magnum, Etc.
- Adhesives: Araldite, Bondo, Asmaco, Inter flex, Etc.
- Fasteners: Indian and Chinese fasteners of MS, GI, SS, Nylon, Brass, Etc.
- Lubricants: CRC, WD-40, Galaxy, Etc.
- Measuring Instruments: Hioki, Mitutoyo, Etc.
- Bearings: Koyo, NSK, Nachi, Etc.
- Cutting tools and bits: Starrer, Dormer, Dynamic Etc.
- Belts: Bando, Galaxy, Etc.



STRUCTURAL STEEL

Structural Steel

We are proud to introduce the services of Hanifa Engineering Est. as a well-established steel products trading company in the U.A.E. committed to the highest levels of customer services and quality. We are in the business of exporting, importing and supplying, as a leading stockiest of all types of structural steel.

Facilities

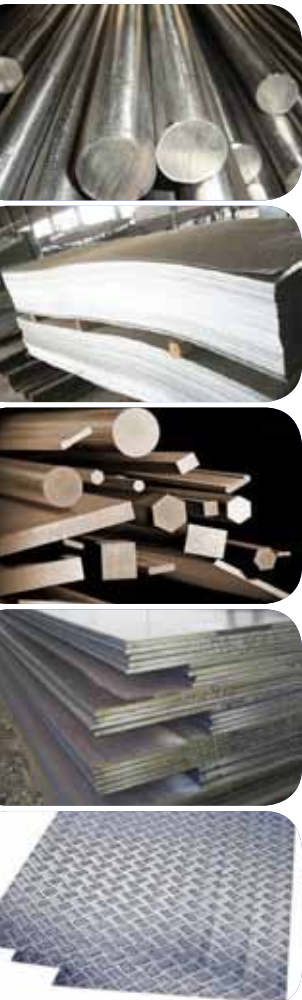
Our stock yard in Sajja industrial area (Sharjah) gives us leverage to stock sufficient materials for customer needs, our centrally located office in the business district of the building material market in Rolla (Sharjah), keeps us close to our prospective customer base.

Customer Base

During a short span of just over two years in the Emirates we have developed a good customer base and have also explored alternative cost effective avenues for sourcing materials. We are approved supplies of structural steel, various building and construction materials to engineering, fabrication and contracting companies not only in the U.A.E. but also other A.G.C.C. countries and have customers in Africa as well.

Our Products:

- Pipes and Tubes : Galvanized Steel Tubes 15mm to 300mm, M.S. Standard Pipes, Furniture Tubes, Casing Pipes, Sch40, Sch80, large DIA Pipes 350mm to 2000mm. M.S. Square and Rectangular Hollow Tubes
- Seamless Carbon Steel Pipes & Oil Field Fittings : ASTM / BS Standard Pipes in Grades A / B, Complete range and sizes. Complete oil field fittings and order supplies.
- Scaffolding: Bracing Pipes, Couplings, and Accessories.
- Coils & Sheets : G.I plain & Corrugated Sheets, MS Sheets, CR Sheets, Coils (Cut to length sizes)
- Structural Steel (Galvanized and Black) : High tensile H & I Beams, Equal & Unequal Angles, Channel, D/ Formed steel bar, Round, Square, Flat, Strips, Binding Wire, Aluminum, Stainless Steel, Copper & Brass products etc.
- Wood & Ply: Plywood, Wood, Marine Plywood, Commercial Plywood etc.



Grams	Kilograms	Metric tonnes	Short ton	Long ton	Pounds	Ounces
g	kg	tonne	shton	Lton	lb	oz
1	0.001	0.000001	0.000001	9.84e-07	0.002205	0.035273
1000	1	0.001	0.001102	0.000984	2.204586	35.27337
1000000	1000	1	1.102293	0.984252	2204.586	35273.37
907200	907.2	0.9072	1	0.892913	2000	32000
1016000	1016	1.016	1.119929	1	2239.859	35837.74
453.6	0.4536	0.000454	0.0005	0.000446	1	16

Millimeters	Centimeters	Meters	Kilometers	Inches	Feet	Yards	Miles
mm	cm	m	km	in	ft	yd	mi
1	0.1	0.001	0.000001	0.03937	0.003281	0.001094	6.21e-07
10	1	0.01	0.00001	0.393701	0.032808	0.010936	0.000006
1000	100	1	0.001	39.37008	3.28084	1.093613	0.000621
1000000	100000	1000	1	39370.08	328084	1093.613	0.621371
25.4	2.54	0.0254	0.000025	1	0.083333	0.02778	0.000016
304.8	30.48	0.3048	0.000305	12	1	0.333333	0.000189
914.4	91.44	0.9144	0.000914	36	3	1	0.000568

Meter/second	Meter/minute	Kilometer/hour	Foot/second	Foot/minute	Miles/hour
m/s	m/min	km/h	ft/s	ft/min	mi/h
1	59.988	3.599712	3.28084	196.8504	2.237136
0.01667	1	0.060007	0.054692	3.281496	0.037293
0.2778	16.66467	1	0.911417	54.68504	0.621477
0.3048	18.28434	1.097192	1	60	0.681879
0.00508	0.304739	0.018287	0.016667	1	0.011365

Designation		Depth of Section D mm	Width of Section B mm	Thickness		Root Radius r ₁ mm	Toe Radius r ₂ mm	Depth Between Fillets d mm	Ratios for Local Buckling		Second Moment of Areas	
Serial	Size			Web t mm	Flange T mm				Flange b/T	Web d/T	Axis x-x cm ²	Axis y-y cm ²
	mm											
432 x 102	65.54	431.8	101.6	12.2	16.8	15.2	4.8	362.4	6.05	29.7	21400	629
381 x 102	55.10	381.0	101.6	10.4	16.3	15.2	4.8	312.4	6.23	30.0	14900	580
305 x 102	46.18	304.8	101.6	10.2	14.8	15.2	4.8	239.2	6.86	23.5	8210	489
305 x 89	41.69	304.8	88.9	10.2	13.7	13.7	3.2	254.4	6.49	24.1	7060	325
254 x 89	35.74	254.0	88.9	9.1	13.6	13.7	3.2	194.7	6.54	21.4	4450	302
254 x 76	28.29	254.0	76.2	8.1	10.9	12.2	3.2	203.8	6.99	25.2	3370	163
229 x 89	32.76	228.6	88.9	8.6	13.3	13.7	3.2	169.8	6.68	19.7	3390	285
229 x 76	26.06	228.6	76.2	7.6	11.2	12.2	3.2	178.0	6.80	23.4	2610	159
203 x 89	29.78	203.2	88.9	8.1	12.9	13.7	3.2	145.2	6.89	17.9	2490	264
203 x 76	23.82	203.2	76.2	7.1	11.2	12.2	3.2	152.5	6.80	21.5	1950	151
178 x 89	26.81	177.8	88.9	7.6	12.3	13.7	3.2	121.0	7.23	15.9	1750	241
178 x 76	20.84	177.8	76.2	6.6	10.3	12.2	3.2	128.8	7.40	19.5	1340	134
152 x 89	23.84	152.4	88.9	7.1	11.6	13.7	3.2	97.0	7.66	13.7	1170	215
152 x 76	17.88	152.4	76.2	6.4	9.0	12.2	2.4	105.9	8.47	16.5	852	114
127 x 64	14.90	127.0	63.5	6.4	9.2	10.7	2.4	84.0	6.90	13.1	483	67.2
102 x 51	10.42	101.6	50.8	6.1	7.6	9.1	2.4	65.7	6.68	10.8	208	29.1
76 x 38	6.70	76.2	38.1	5.1	6.8	7.6	2.4	45.8	5.60	8.98	74.1	10.7

SWITCH GEAR

Switchgear Industry:

Hanifa Engineering Est. started its switchgear division in 1990 as a small assembly unit in Sharjah , and has experienced accelerated growth over the years to become one of the leading low voltage switchgear manufacturing concerns in the region. We have also involved in local and international trading of L.V. switchgear components and electrical materials.

We are authorized distributor and channel partners for the following in U.A.E.:

- Indoasian: ACBs, MCCBs, isolators, MCBs, ELCBs, RCBOs, and modular DB components.
- LS: ACBs, MCCBs, isolators, MCBs, ELCBs, RCBOs, and modular DB components.
- Sharcab/MESC: Flexible and control wiring
- Bandex: Trunking and wire ducting
- Shanuz: Tinned copper bus-bars
- Abudhabi Cable: Flexible wires

Other Switchgear Products:

Ferrules, CTs, Din Rails, Fire Cables, Energy Meters, Bus bar Insulators, Earth Bar, Neutral Links, RYB Stickers, Ammeters, Voltmeters, Ammeter & Voltmeter Selector switches, Fuse, Fuse Strips & Covers, Louvers, Channels, Indication Lamps, Thermostat, Relays, Window Glass, Ventilation Fans, Warning Stickers, Terminals Sleeves, Push Buttons, PF Meters, Fuse Wires, Lugs, Drawing Packets, End Sleeves, DP Switches, Copper Bush, Couplers, Cable Lugs, Busbar trunking systems etc.

CONTAINER LASHING

Container Lashing Systems

Hanifa Engineering Est. assists you in keeping your Containers secured and in place. Our products ensure your containers a safe and reliable lashing. MSA products are made from well tested and standard material. Rigorous testing is done at both Forging and the Casting level to isolate any defects in the material which might endanger your ship. The High quality of our material will guarantee better grips for the containers, even in rough weather.

In this industry, reputation is a very relative term. The reputation of a manufacturer depends on every single ' Lock & Fitting ' that is manufactured, along with high quality, consistency and safety, measured on these yardsticks MSA ranks among the top ' Container Lashing System ' manufacturer in the world.

Our Approvals:

- Lloyd's Register of Shipping " (L.R.S)
- American Bureau of Shipping" (A.B.S).

Our products:

- Sealing locks
- Lashing bars
- Bridge fittings
- Double and single stackers
- Securing pads
- Manual operated twist locks
- Semi-automatic twist lock wire operated
- Hanging stackers
- Truck twist locks

Designation		Mass per meter kg	Area of section cm ²	Distance of centre of gravity c cm
Size A mm	Thickness t mm			
200 x 200	24	71.1	90.8	5.84
	20	59.9	76.6	5.68
	18	54.2	69.14	5.60
	16	48.5	61.8	5.52
150 x 150	18	40.1	51.0	4.37
	15	33.8	43.0	4.25
	12	27.3	34.8	4.12
	10	23.0	29.14	4.03
100 x 100	15	21.9	27.9	3.02
	12	17.8	22.7	2.90
	10	15.0	19.2	2.82
	8	12.2	15.5	2.74
90 x 90	12	15.9	20.3	2.66
	10	13.4	17.1	2.58
	8	10.9	13.9	2.50
	6	8.30	10.6	2.41
80 x 80	10	11.9	15.1	2.34
	8	9.63	12.3	2.26
	6	7.34	9.25	2.17
70 x 70	10	10.3	13.1	2.09
	8	8.36	10.6	2.01
	6	6.38	8.13	1.83
60 x 60	10	8.69	11.1	1.85
	8	7.09	9.03	1.77
	6	5.42	6.91	1.69
	5	4.57	5.82	1.64
50 x 50	8	5.82	7.41	1.52
	6	4.47	5.69	1.45
	5	3.77	4.80	1.40
40 x 40	6	3.52	4.48	1.20
	5	2.97	3.79	1.16
	4	2.42	3.08	1.12
25 x 25	5	1.77	2.26	0.80
	4	1.45	1.85	0.76
	3	1.11	1.42	0.72

Metric Size (mm)	kg/m	Mtrs / Tonne	Metric Size (mm)	kg/m	Mtrs / Tonne
6	0.22	4505	8	0.50	2000
8	0.39	2532	10	0.79	1265
10	0.62	1621	12.5	1.22	820
12	0.89	1120	16	2.01	497
16	1.58	632	20	3.14	318
20	2.47	404	25	4.91	204
25	3.85	259	30	7.07	141
32	6.31	158	32	8.04	125
40	9.86	101	40	12.60	80
45	12.5	80	45	15.90	63
50	15.40	64	50	19.60	51
60	22.20	45	60	28.30	35
65	26.00	38	75	44.20	23
75	34.70	29	90	63.60	16
90	49.90	20	100	78.50	13
100	61.60	16			

FABRICATION

Steel Fabrication

Hanifa Engineering Est. is a leader in the highly diversified field of steel fabrication and erection. We provide outstanding quality across all our products and services. Due to our unrivaled production capacity and planning facilities we are one of the top companies in U.A.E. with the ability to deliver solutions to complex and sophisticated customer requirements, while meeting delivery schedules regardless of size and scope of the project.

Hanifa Engineering Est. processes the flexibility to manufacture a wide range of mixed products that would fit in and fulfill different sectors of the markets. This wide range includes but is not limited to:

- Steel structure
- Sheds
- Hand rails
- Canopies
- Steel collector elements
- Plate works
- Pressure vessels
- Boilers
- Piping
- Tanks

In addition Hanifa Engineering Est. has the engineering and technical capacity to contribute to the designs of different applications and to use its technical expertise to make sure that the end product is the right outcome required by the client.



SCAFFOLDING

Scaffolding and formwork

Hanifa Engineering Est. has served the U.A.E. and its surrounding areas since 2006 for all its scaffolding and formwork needs, we specialize in steel and aluminum scaffoldings and formwork systems.

Commercial Scaffoldings:

We provide any and all types of scaffoldings ranging from the complex to the simplest projects.

Domestic Scaffoldings:

Scaffolding is an essential safety precaution for many domestic building projects, such as house extensions, re-roofing and loft conversions. Whether you are extending your home, replacing your guttering, extending your loft or making other structural home improvements you need scaffolding as a safety precaution.

Industrial Scaffoldings:

Our industrial scaffolding equipment is delivered, erected and dismantled very quickly and provides the neatest possible finish. This not only means that your workplace does not look like a building site for too long, it also keeps the cost down, bringing you very competitive prices.

Sales:

- Scaffolding & accessories (new & used)
- Trash & debris chutes
- Scaffold planks
- Ladders - Fiberglass & Aluminum - Step & Extension
- Cup Lock Standard Components
- Cup Lock Ledger Components
- Cup Lock Jack Accessories
- Jacks & Drop Head
- Forged Couplers
- Adjustable Prop Jack
- H-Frames
- Tie System
- Scaffolding Clamp Accessories
- Scaffolding Clamps
- Aluminum Scaffolding

Rentals:

- Scaffolding – Planks – Trash Debris Chutes
- Event Staging Systems

Installations:

- Traditional frame scaffolding
- System scaffold
- Tube & clamp
- Trash & debris chutes
- Stairway systems
- Pedestrian side
- walk protection



Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification			W.T. Std - XS XXS	N° Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	API Specifications 5L 3/82	5LX 3/82	5LS 3/82		
1/8	0.405	10.3	0.068	1.73	0.24	0.37	X			STD	40
	0.405	10.3	0.095	2.41	0.31	0.47	X			XS	80
1/4	0.540	13.7	0.086	2.24	0.42	0.63	X			STD	40
	0.540	13.7	0.119	3.02	0.54	0.80	X			XS	80
3/8	0.675	17.1	0.091	2.31	0.57	0.84	X			STD	40
	0.675	17.1	0.126	3.20	0.74	1.10	X			XS	80
1/2	0.840	21.3	0.109	2.77	0.85	1.27	X			STD	40
	0.840	21.3	0.147	3.73	1.09	1.62	X			XS	80
	0.840	21.3	0.188	4.78	1.31	1.95					160
	0.840	21.3	0.294	7.47	1.71	2.55	X			XXS	
3/4	1.050	26.7	0.113	2.87	1.13	1.69	X			STD	40
	1.050	26.7	0.154	3.91	1.47	2.20	X			XS	80
	1.050	26.7	0.219	5.56	1.94	2.90					160
	1.050	26.7	0.308	7.82	2.44	3.64	X			XXS	
1	1.315	33.4	0.133	3.38	1.68	2.50	X			STD	40
	1.315	33.4	0.179	4.55	2.17	3.24	X			XS	80
	1.315	33.4	0.250	6.35	2.84	4.24					160
	1.315	33.4	0.358	9.09	3.66	5.45	X			XXS	
1 1/4	1.660	42.2	0.140	3.56	2.27	3.39	X			STD	40
	1.660	42.2	0.191	4.85	3.00	4.47	X			XS	80
	1.660	42.2	0.250	6.35	3.76	5.61					160
	1.660	42.2	0.382	9.70	5.21	7.77	X			XXS	
1 1/2	1.900	48.3	0.145	3.68	2.72	4.05	X			STD	40
	1.900	48.3	0.200	5.08	3.63	5.41	X			XS	80
	1.900	48.3	0.281	7.14	4.86	7.25					160
	1.900	48.3	0.400	10.15	6.41	9.56	X			XXS	

Nominal Size Inches	Outside diameter		Wall thickness		Weight		Identification			W.T. Std - XS XXS	N° Schedule
	Inches	mm	Inches	mm	lbs/foot	kg/m	API Specifications 5L 3/82	5LX 3/82	5LS 3/82		
2	2.375	60.3	0.083	2.11	2.03	3.03	X	X			
	2.375	60.3	0.109	2.77	2.64	3.93	X	X			
	2.375	60.3	0.125	3.18	3.00	4.48	X	X			
	2.375	60.3	0.141	3.58	3.36	5.01	X	X			
	2.375	60.3	0.154	3.91	3.65	5.44	X	X		STD	40
	2.375	60.3	0.172	4.37	4.05	6.03	X	X			
	2.375	60.3	0.188	4.78	4.39	6.54	X	X			
	2.375	60.3	0.218	5.54	5.02	7.48	X	X		XS	80
	2.375	60.3	0.250	6.35	6.67	8.45	X	X			
	2.375	60.3	0.281	7.14	6.28	9.36	X	X			
2 1/2	2.375	60.3	0.344	8.74	7.46	11.11					160
	2.375	60.3	0.436	11.07	9.03	13.44	X	X		XXS	
	2.875	73.0	0.083	2.11	2.47	3.69	X	X			
	2.875	73.0	0.109	2.77	3.22	4.80	X	X			
	2.875	73.0	0.125	3.18	3.67	5.48	X	X			
	2.875	73.0	0.141	3.58	4.12	6.13	X	X			
	2.875	73.0	0.156	3.96	4.53	6.74	X	X			
	2.875	73.0	0.172	4.37	4.97	7.40	X	X			
	2.875	73.0	0.188	4.78	5.40	8.04	X	X			
	2.875	73.0	0.203	5.16	5.79	8.63	X	X		STD	40
3	2.875	73.0	0.216	5.49	6.13	9.14	X	X			
	2.875	73.0	0.250	6.35	7.01	10.44	X	X			
	2.875	73.0	0.276	7.01	7.66	11.41	X	X		XS	80
	2.875	73.0	0.375	9.53	10.01	14.92					160
	2.875	73.0	0.552	14.02	13.69	20.39	X	X		XXS	
	3.500	88.9	0.083	2.11	3.03	4.52	X	X			
	3.500	88.9	0.109	2.77	3.95	5.88	X	X			
	3.500	88.9	0.125	3.18	4.51	6.72	X	X			
	3.500	88.9	0.141	3.58	5.06	7.53	X	X			
	3.500	88.9	0.156	3.96	5.57	8.29	X	X			



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