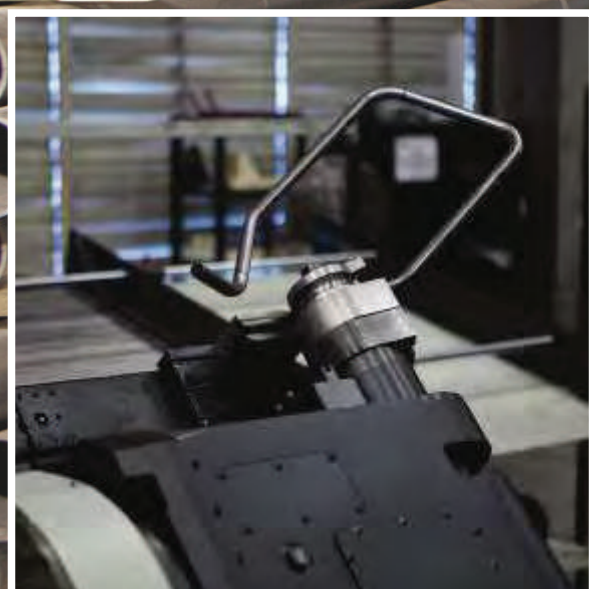






ABOUT US

For more than 6 decades, Prolamsa® has been known for our compromise with customer satisfaction, which is achieved through innovative and high quality processes, certified under ASTM standards and ISO 9001.

With our wide variety of structural and mechanical steel tubing, we serve different markets such as: construction, furniture, automotive, storage, solar energy, major and minor equipment.



WHERE TO FIND US



PROLAMSA USA
Houston, TX



PROLAMSA LAREDO
Laredo, TX
Services offered: Cut-to-length, laser cutting, forming, bending, welding, deburring, reaming and chamfering.



Axis Pipe and Tube
Bryan, TX
Products offered: OCTG & Line Pipe for the oil and gas market, ASTM A53, A500, A552 & HSS.



ESCOBEDO PLANT
Escobedo, Mexico
Services offered: Cut-to-length, laser cutting, forming, bending, welding, deburring, roll forming, CNC saw cutting, CNC laser tube cutting, CNC bending welding cells, CNC bending curtain, reaming and chamfering.



MONTERREY PLANT
Monterrey, Mexico
Services offered: Cut-to-length, laser cutting, forming, bending, welding, deburring, roll forming, CNC saw cutting, CNC laser tube cutting, CNC bending welding cells, CNC bending curtain, reaming and chamfering.



TEPEJI PLANT
Tepeji del Río, Mexico



PROSANKIN
Pesqueria, Mexico
Products offered: DOM tubing

LOCATIONS



OUR NETWORK

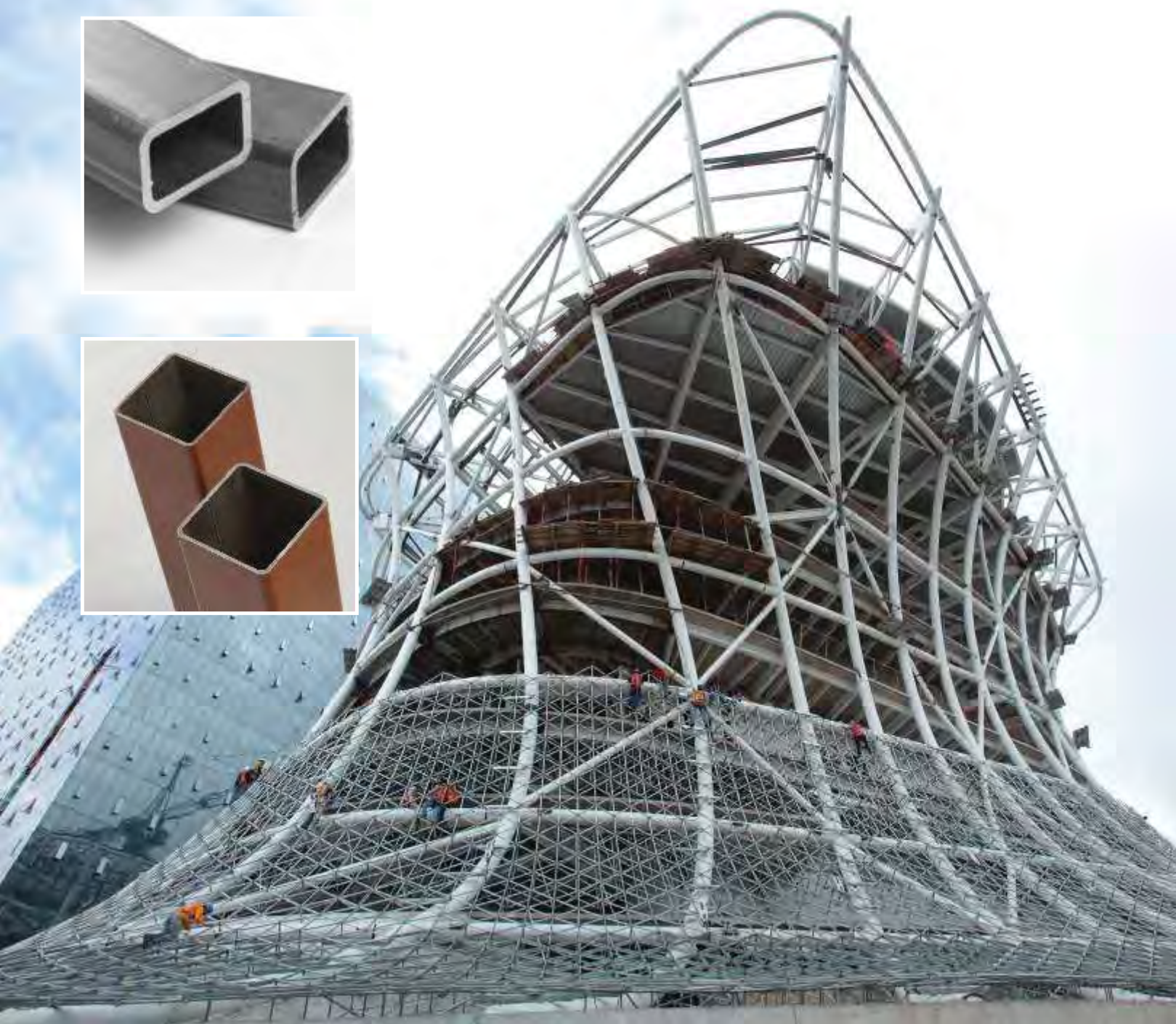
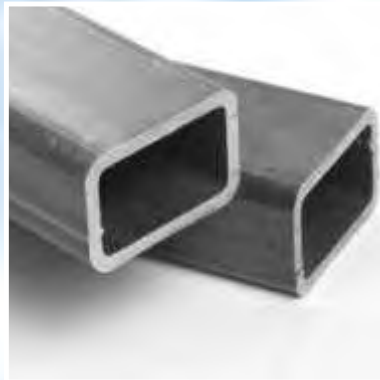
- Offices
- Manufacturing facilities
- Manufacturing facilities and offices

CONSTRUCTION

HSS AND STEEL COMPONENTS
FOR YOU STRUCTURE.

APPLICATIONS:

STRUCTURES • DOORS AND WINDOWS • FENCES
• POLES • GREENHOUSES • SCAFFOLDS •



AUTOMOTIVE

HIGH QUALITY PRODUCTS FO
TIER 1 SUPPLIERS.

APPLICATIONS:

• SEATING STRUCTURES • CROSS MEMBERS •
HINGES • HEAD RESTS • TOWING COMPONENTS •
STIRING WHEELS

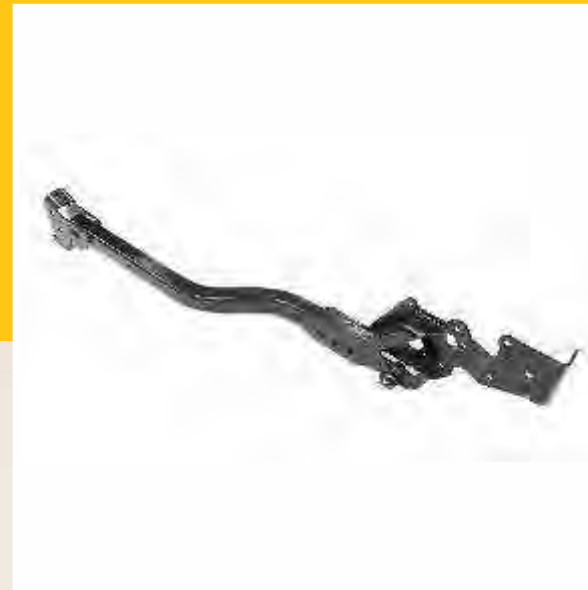




MAJOR EQUIPMENT

QUALIFIED MANUFACTURER OF ROPS
AND FOPS (ROLL OVER AND FALLING
OBJECT PROTECTIVE STRUCTURES).

APPLICATIONS:
TRACTORS/AGRICULTURAL EQUIPMENT ·
TRAILERS · MINING EQUIPMENT ·



FURNITURE

PRODUCTS READY FOR YOUR
ASSEMBLY LINE

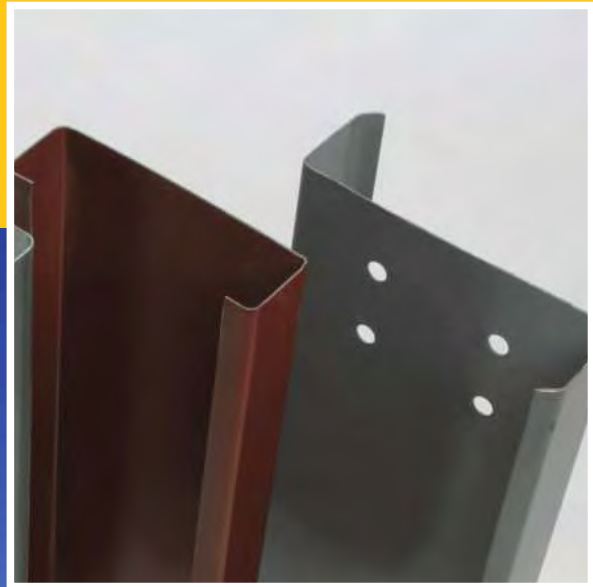
APPLICATIONS:
OFFICE · MEDICAL USE · HOME ·
RECREATIONAL



SOLAR ENERGY

OUR GALVANIZED PRODUCTS ARE
PERFECT FOR THE CONSTRUCTION OF
SOLAR PARTS.

APPLICATIONS:
SOLAR TRACKERS AXLES • SOLAR PANEL FRAMES
SUPPORT POLES • SOLAR RACKS • SOLAR PANEL
MOUNTS



MINOR EQUIPMENT

TECHNICAL CONSULTATION DURING
PRODUCT DESIGN PHASE.

APPLICATIONS:
HVAC • OUTDOORS • TRANSPORT •
TRANSFORMERS (HEAT EXCHANGERS)

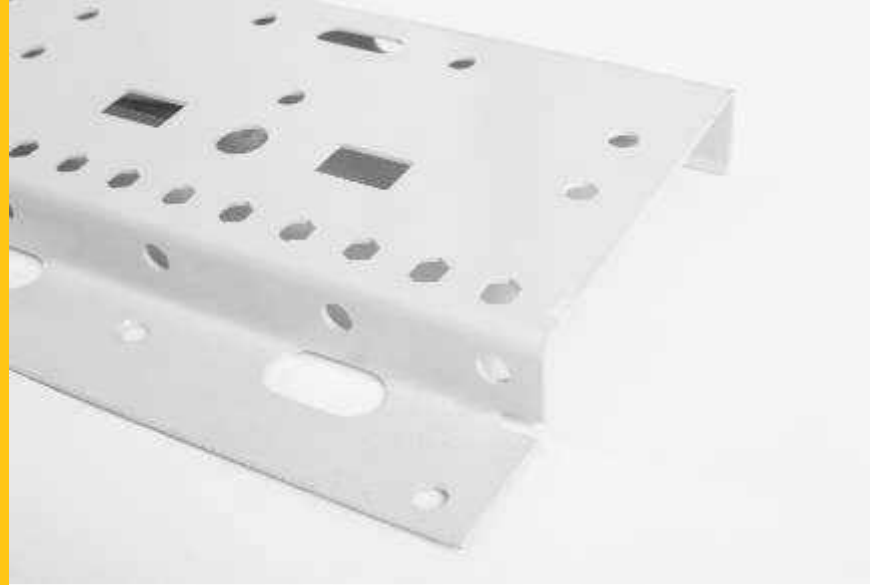


STORAGE

NEW PRODUCTS ACCORDING
TO REQUERIMENTS.

APLICACTIONS:

CONTAINERS · SHELVES/EXHIBITORS · CONVEYOR
BELTS · MATERIAL HANDLING SYSTEMS ·



TAILOR - MADE PRODUCTS

WE CAN PRODUCE ANY REQUIRED SHAPE.

TUBING:

- Special Shapes
- Round
- Square
- Rectangular
- Oval
- Elliptical

STANDARD SPECIFICATION:

- ASTM A513 Type 1&2
- ASTM A500 Grade A, B or C
- ASTM A787
- ASTM A512 DOM Tube

RAW MATERIAL:

- Hot-rolled steel
- Hot-rolled pickled steel
- Cold-rolled steel
- Galvanized
- Aluminized
- Dual Phase Steel

FROM LOW-CARBON STEEL
TO MARTENSITIC STEEL



HSS Square Tubing (Theoretical Weights lb/ft)

SIZE	GA.	WALL (in)	Wt/Ft	PCS/BNDL	Pieces Base	Pieces Height	Wt/20ft Bundles	Wt/24ft Bundles	Wt/40ft Bundles
2 x 2	8	0.250	5.415	40	8	5	4,332	5,198	8,664
		0.188	4.334	40	8	5	3,467	4,161	6,934
		0.165	3.880	40	8	5	3,104	3,725	6,208
2½ x 2½	8	0.250	7.119	27	9	3	3,844	4,613	7,689
		0.188	5.615	27	9	3	3,032	3,639	6,064
		0.165	5.013	27	9	3	2,707	3,248	5,414
2.362 x 2.362	8	0.165	4.930	27	9	3	2,662	3,195	5,324
3 x 3	8	0.250	8.820	21	7	3	3,704	4,445	7,409
		0.188	6.896	21	7	3	2,896	3,476	5,793
		0.165	6.138	21	7	3	2,578	3,094	5,156
3½ x 3½	5	0.250	10.527	18	6	3	3,790	4,548	7,579
		0.220	9.412	18	6	3	3,388	4,066	6,777
		0.188	8.178	18	6	3	2,944	3,533	5,888
4 x 4	8	0.165	7.262	18	6	3	2,614	3,137	5,229
		0.250	12.231	15	5	3	3,669	4,403	7,339
		0.220	10.912	15	5	3	3,274	3,928	6,547
4½ x 4½	5	0.188	9.459	15	5	3	2,838	3,405	5,675
		0.165	8.387	15	5	3	2,516	3,019	5,032
		0.250	13.935	15	5	3	4,181	5,017	8,361
5 x 5	8	0.220	12.411	15	5	3	3,723	4,468	7,447
		0.188	10.741	15	5	3	3,222	3,867	6,445
		0.250	15.639	12	4	3	3,753	4,504	7,507
6 x 6	5	0.220	13.911	12	4	3	3,339	4,006	6,677
		0.188	12.022	12	4	3	2,885	3,462	5,771
		0.165	10.636	12	4	3	2,553	3,063	5,105
6 x 6		0.250	19.050	9	3	3	3,429	4,114	6,857
		0.188	14.580	9	3	3	2,625	3,150	5,251

HSS Rectangular Tubing (Theoretical Weights lb/ft)

SIZE	GA.	WALL (in)	Wt/Ft	PCS/BNDL	Pieces Base	Pieces Height	Wt/20ft Bundles	Wt/24ft Bundles	Wt/40ft Bundles
3 x 1½		0.188	4.974	28	7	4	2,785	3,343	5,571
3 x 2	8	0.250	7.119	28	7	4	3,987	4,784	7,973
		0.188	5.615	28	7	4	3,144	3,773	6,289
		0.165	5.013	28	7	4	2,807	3,369	5,615
4 x 2	8	0.250	8.820	15	5	3	2,646	3,175	5,292
		0.188	6.896	20	5	4	2,758	3,310	5,517
		0.165	6.138	20	5	4	2,455	2,946	4,910
4 x 3	5	0.250	10.527	15	5	3	3,158	3,790	6,316
		0.220	9.412	15	5	3	2,824	3,388	5,647
		0.188	8.178	15	5	3	2,453	2,944	4,907
4 x 3½	8	0.165	7.262	15	5	3	2,179	2,614	4,357
		0.250	12.750	15	5	3	3,825	4,590	7,650
		0.188	9.747	15	5	3	2,924	3,509	5,848
5 x 2	5	0.165	8.606	15	5	3	2,582	3,098	5,164
		0.250	10.527	20	5	4	4,211	5,053	8,422
		0.188	8.178	20	5	4	3,271	3,925	6,542
5 x 3	8	0.250	12.210	16	4	4	3,907	4,689	7,814
		0.220	10.912	16	4	4	3,492	4,190	6,984
		0.188	9.459	16	4	4	3,027	3,632	6,054
5 x 4	5	0.165	8.387	16	4	4	2,684	3,221	5,368
		0.250	13.935	16	4	4	4,459	5,351	8,918
		0.188	10.741	16	4	4	3,437	4,125	6,874
6 x 2	8	0.250	12.210	15	5	3	3,663	4,396	7,326
		0.220	10.912	15	5	3	3,274	3,928	6,547
		0.188	9.459	15	5	3	2,838	3,405	5,675
6 x 3	5	0.165	8.387	15	5	3	2,516	3,019	5,032
		0.250	13.935	16	4	4	4,459	5,351	8,918
		0.220	12.411	16	4	4	3,972	4,766	7,943
6 x 4	8	0.188	10.741	16	4	4	3,437	4,125	6,874
		0.165	9.512	16	4	4	3,044	3,653	6,088
		0.250	15.620	12	4	3	3,749	4,499	7,498
8 x 4	5	0.220	13.880	12	4	3	3,331	3,997	6,662
		0.188	11.970	12	4	3	2,873	3,447	5,746
		0.165	10.636	12	4	3	2,553	3,063	5,105
8 x 4		0.250	19.050	10	5	2	3,809	4,571	7,620
		0.188	14.580	10	5	2	2,917	3,500	5,834

This table shows the most commonly requested sizes. Prolamsa can provide other sizes and we invite your inquiries.
Some sizes and gauges require minimum quantities. Manufactured according to ASTM A500 specifications.

HSS Round Tubing (Theoretical Weights lb/ft)

SIZE	GA.	WALL (in)	Wt/Ft	PCS/BNDL	Pieces Base	Pieces Height	Wt/20ft Bundles	Wt/21ft Bundles	Wt/24ft Bundles	Wt/40ft Bundles
2.375		0.250	5.674	37	4	7	4,199	4,409	5,038	8,397
2.750	10	0.134	3.747	37	4	7	2,773	2,911	3,327	5,546
	11	0.120	3.371	37	4	7	2,495	2,619	2,993	4,989
2.875	Sch 40	0.203	5.793	37	4	7	4,287	4,501	5,144	8,574
3.000		0.250	7.343	37	4	7	5,434	5,706	6,521	10,868
		0.188	5.646	37	4	7	4,178	4,387	5,014	8,356
	8	0.165	4.996	37	4	7	3,697	3,882	4,436	7,394
	9	0.148	4.508	37	4	7	3,336	3,503	4,003	6,672
	10	0.134	4.105	37	4	7	3,038	3,190	3,645	6,075
3.500		0.120	3.691	37	4	7	2,731	2,868	3,278	5,463
	Sch 40	0.216	7.576	19	3	5	2,879	3,023	3,455	5,758
4.095		0.250	10.276	19	3	5	3,905	4,100	4,686	7,810
		0.220	9.113	19	3	5	3,463	3,636	4,156	6,926
		0.188	7.845	19	3	5	2,981	3,130	3,577	5,962
	8	0.165	6.925	19	3	5	2,632	2,763	3,158	5,263
	9	0.148	6.239	19	3	5	2,371	2,489	2,845	4,742
	10	0.134	5.673	19	3	5	2,156	2,264	2,587	4,311
		0.120	5.094	19	3	5	1,936	2,033	2,323	3,872
	Sch 40	0.237	10.79	19	3	5	4,100	4,305	4,920	8,200
4.500		0.250	11.598	19	3	5	4,407	4,628	5,289	8,814
		0.220	10.277	19	3	5	3,905	4,101	4,686	7,811
		0.188	8.839	19	3	5	3,359	3,527	4,030	6,717
	8	0.165	7.798	19	3	5	2,963	3,111	3,556	5,926
	9	0.148	7.021	19	3	5	2,668	2,801	3,202	5,336
	10	0.134	6.383	19	3	5	2,426	2,547	2,911	4,851
4.750		0.120	5.729	19	3	5	2,177	2,286	2,612	4,354
		0.250	12.026	19	3	5	4,570	4,798	5,484	9,140
		0.220	10.653	19	3	5	4,048	4,251	4,858	8,096
		0.188	9.168	19	3	5	3,484	3,658	4,181	6,968
	8	0.165	8.087	19	3	5	3,073	3,227	3,688	6,146
	9	0.148	7.281	19	3	5	2,767	2,905	3,320	5,534
	10	0.134	6.612	19	3	5	2,513	2,638	3,015	5,025
		0.120	5.934	19	3	5	2,255	2,368	2,706	4,510
		0.280	18.974	7	2	3	2,656	2,789	3,187	5,312
	Sch 40	0.280	19.288	7	2	3	2,700	2,835	3,240	5,401
6.730		0.188	13.135	7	2	3	1,839	1,931	2,207	3,678

This table shows the most commonly requested sizes. Prolamsa can provide other sizes and we invite your inquiries.
Some sizes and gauges require minimum quantities. Manufactured according to ASTM A513 specifications.

MANUFACTURED IN LAREDO, TEXAS

Square Mechanical Tubing (Theoretical Weights lb/ft)												
Dim A (in)	Dim B (in)	NOMINAL WALL THICKNESS (in.)										
		0.0350 20	0.0490 18	0.0598	0.0650 16	0.0710	0.0747	0.0830 14	0.0950 13	0.1090 12	0.1200 11	0.1340 10
0.500	0.500	0.220	0.300	0.369								
0.625	0.625	0.280	0.380	0.475								
0.750	0.750	0.340	0.470	0.580	0.606	0.660	0.710	0.753				
1.000	1.000	0.460	0.630	0.791	0.827	0.910	0.980	1.035	1.170	1.320	1.440	
1.250	1.250			1.002	1.048	1.150	1.240	1.317	1.490	1.690	1.840	
1.500	1.500			1.213	1.269	1.400	1.510	1.600	1.820	2.060	2.250	2.490
2.000	2.000			1.634	1.711	1.890	2.040	2.164	2.460	2.800	3.070	3.400
2.170	2.170			1.777	1.861	2.050	2.220	2.356	2.680	3.060	3.350	3.710
2.250	2.250			1.780	1.931	2.103	2.209	2.445	2.783	3.173	3.350	3.700
2.500	2.500			2.056	2.153	2.380	2.570	2.728	3.110	3.540	3.880	4.310
3.000	3.000					2.828	2.870	3.290	3.750	4.286	4.700	

This table shows the most commonly requested sizes. Prolamsa can provide other sizes and we invite your inquiries. Some sizes and gauges require minimum quantities.

Rectangular Mechanical Tubing (Theoretical Weights lb/ft)										
Dim A (in)	Dim B (in)	NOMINAL WALL THICKNESS (in.)								
		0.0598	0.0650	0.0710	0.0747	0.0830	0.0950	0.1090	0.1200	0.1340
1.000	0.500	0.580	0.606	0.660	0.710	0.753				
1.500	1.000	1.000	1.048	1.150	1.240	1.317	1.490	1.690	1.840	2.030
2.000	1.000	1.210	1.269	1.400	1.510	1.600	1.820	2.060	2.250	2.490
2.500	1.500	1.630	1.711	1.890	2.040	2.164	2.460	2.800	3.070	3.400
3.000	1.000	1.630	1.711	1.890	2.040	2.164	2.460	2.800	3.070	3.400
3.000	1.500	1.780	1.931	2.103	2.209	2.446	2.783	3.173	3.349	3.698
3.000	2.000	2.060	2.153	2.380	2.570	2.728	3.110	3.540	3.880	4.310
4.000	1.500			2.586	2.718	3.009	3.429	3.914	4.165	
4.000	2.000			2.828	2.870	3.290	3.750	4.286	4.700	

This table shows the most commonly requested sizes. Prolamsa can provide other sizes and we invite your inquiries. Some sizes and gauges require minimum quantities.

Round Mechanical Tubing (Theoretical Weights lb/ft)													
O.D.		NOMINAL WALL THICKNESS (in.)											
		ASTM 513								ASTM 500			
		0.0490	0.0598	0.0650	0.0710	0.0747	0.0830	0.0950	0.1090	0.1200	0.1340	0.1480	0.1495
in	mm	18		16			14	13	12	11	10	9	
0.540	13.716	0.256	0.306	0.329	0.355	0.370	0.405						
0.625	15.875	0.301	0.360	0.389	0.420	0.438	0.480						
0.675	17.145	0.328	0.380	0.410	0.460	0.500	0.520						
0.840	21.336	0.414	0.480	0.520	0.590	0.630	0.670	0.760	0.850				
1.050	26.670	0.524	0.610	0.650	0.750	0.810	0.860	0.970	1.100	1.190			
1.250	31.750	0.629	0.790	0.823	0.910	0.980	1.034	1.170	1.330	1.450	1.600		
1.315	33.401	0.663	0.780	0.830	0.960	1.030	1.090	1.240	1.400	1.530	1.690		
1.660	42.164		1.060	1.107	1.220	1.320	1.398	1.590	1.810	1.970	2.180	2.390	2.411
1.900	48.260		1.220	1.274	1.410	1.520	1.610	1.830	2.080	2.280	2.530	2.770	2.794
2.375	60.325		1.530	1.604	1.770	1.910	2.030	2.310	2.640	2.890	3.210	3.520	3.553
3.500	88.900				2.600	2.733	3.029	3.455	3.948	4.332	4.820	5.300	5.349

This table shows the most commonly requested sizes. Prolamsa can provide other sizes and we invite your inquiries. Some sizes and gauges require minimum quantities.

MANUFACTURED IN ESCOBEDO, MEXICO

Round Mechanical Tubing (Theoretical Weights lb/ft)													
O.D.		NOMINAL WALL THICKNESS (in.)											
		0.0350	0.0420	0.0490	0.0580	0.0650	0.0710	0.0747	0.0830	0.0950	0.1090	0.1200	0.1340
in	mm	20	19	18	17	16			14	13	12	11	10
0.500	12.70	0.170	0.210	0.240	0.270								
0.540	13.72	0.190	0.220	0.260	0.300	0.320	0.360	0.380					
0.625	15.88	0.220	0.260	0.300	0.350	0.370	0.430	0.460					
0.675	17.15	0.240	0.280	0.330	0.380	0.410	0.460	0.500					
0.706	17.93	0.250	0.300	0.340	0.400	0.430							
0.750	19.05	0.270	0.320	0.370	0.430	0.460	0.520	0.560					
0.812	20.62	0.290	0.350	0.400	0.470	0.500	0.570	0.610					
0.840	21.34	0.300	0.360	0.410	0.480	0.520	0.590	0.630	0.670				
0.866	22.00	0.310	0.370	0.430	0.500								
0.875	22.23	0.310	0.370	0.430	0.510	0.540	0.620	0.660	0.700	0.790			
0.922	23.42	0.330	0.390	0.460	0.540	0.570	0.650	0.700	0.740	0.840			
0.937	23.80	0.340	0.400	0.460	0.540	0.580	0.670	0.720	0.760	0.850			
0.995	25.27	0.360	0.430	0.500	0.580	0.620	0.710	0.760	0.810	0.910	1.030		
1.000	25.40	0.360	0.430	0.500	0.580	0.620	0.710	0.770	0.810	0.920	1.040		
1.050	26.67	0.380	0.450	0.520	0.610	0.650	0.750	0.810	0.860				
1.080	27.43	0.390	0.470	0.540	0.630	0.670	0.780	0.830	0.880	1.000	1.130		
1.125	28.58	0.410	0.490	0.560	0.660	0.700	0.810	0.870	0.920	1.050	1.180		
1.163	29.54	0.420	0.500	0.580	0.680	0.730	0.840	0.900	0.960	1.080	1.230	1.340	1.470
1.250	31.75	0.450	0.540	0.630	0.740	0.790	0.910	0.980	1.030	1.170	1.330	1.450	1.600
1.375	34.93	0.500	0.600	0.690	0.820	0.870	1.000	1.080	1.150	1.300	1.470	1.610	1.780
1.500	38.10	0.550	0.650	0.760	0.890	0.950	1.100	1.180	1.260	1.430	1.620	1.770	1.950
1.510	38.35	0.550	0.660	0.760	0.900	1.000	1.090	1.150	1.260	1.440	1.630	1.780	1.970
1.580	40.13	0.580	0.690	0.800	0.940	1.010	1.160	1.250	1.330	1.510	1.710	1.870	2.070
1.625	41.28	0.590	0.710	0.820	0.970	1.030	1.190	1.290	1.370	1.550	1.760	1.930	2.130
1.690	42.93	0.620	0.740	0.860	1.010	1.130	1.230	1.290	1.420	1.620	1.840	2.010	2.230
1.740	44.20	0.640	0.760	0.880	1.040	1.160	1.270	1.330	1.470	1.670	1.900	2.080	2.300
1.750	44.45	0.640	0.770	0.890	1.050	1.120	1.290	1.390	1.480	1.680	1.910	2.090	2.310
1.826	46.38	0.670	0.800	0.930	1.100	1.170	1.350	1.460	1.550	1.760	2.000	2.190	2.420
1.875	47.63	0.690	0.820	0.960	1.130	1.200	1.390	1.500	1.590	1.810	2.060	2.250	2.490
2.000	50.80	0.730	0.880	1.020	1.200	1.280	1.480	1.600	1.700	1.930	2.200	2.410	2.670
2.125	53.98	0.780	0.930	1.090	1.280	1.370	1.580	1.710	1.810	2.060	2.350	2.570	2.850
2.197	55.80		0.970	1.120	1.320	1.410	1.630	1.770	1.870	2.130	2.430	2.660	2.950
2.250	57.15		0.990	1.150	1.360	1.450	1.670	1.810	1.920	2.190			
2.318	58.88		1.020	1.190	1.400	1.490	1.730	1.870	1.980	2.260			
2.500	63.50	0.920	1.100	1.280	1.510	1.610	1.870	2.020	2.140	2.440			
2.750	69.85		1.210	1.410	1.670	1.780	2.060	2.230	2.360	2.690	3.070		
2.875	73.03		1.270	1.480	1.740	1.860	2.160	2.330	2.470				
3.000	76.20			1.540	1.820	1.950	2.250	2.430	2.590	2.950	3.370		
3.500	88.90				2.130	2.380	2.600	2.730	3.030				
4.095	104.01							3.210	3.560	4.060	4.640		
4.500	114.30							3.530	3.920				
4.560	116.59									4.560	5.220		
4.750	120.65									4.720	5.400		

This table shows the most commonly requested sizes. Prolamsa can provide other sizes and we invite your inquiries. Some sizes and gauges require minimum quantities.

[illegible]

Prolamsa can provide other sizes and we invite your inquiries. Some sizes and gauges require minimum quantities. Please enquire on lead times. All of our Steel tubing is produced to ASTM A-500 or A-513 as applies.

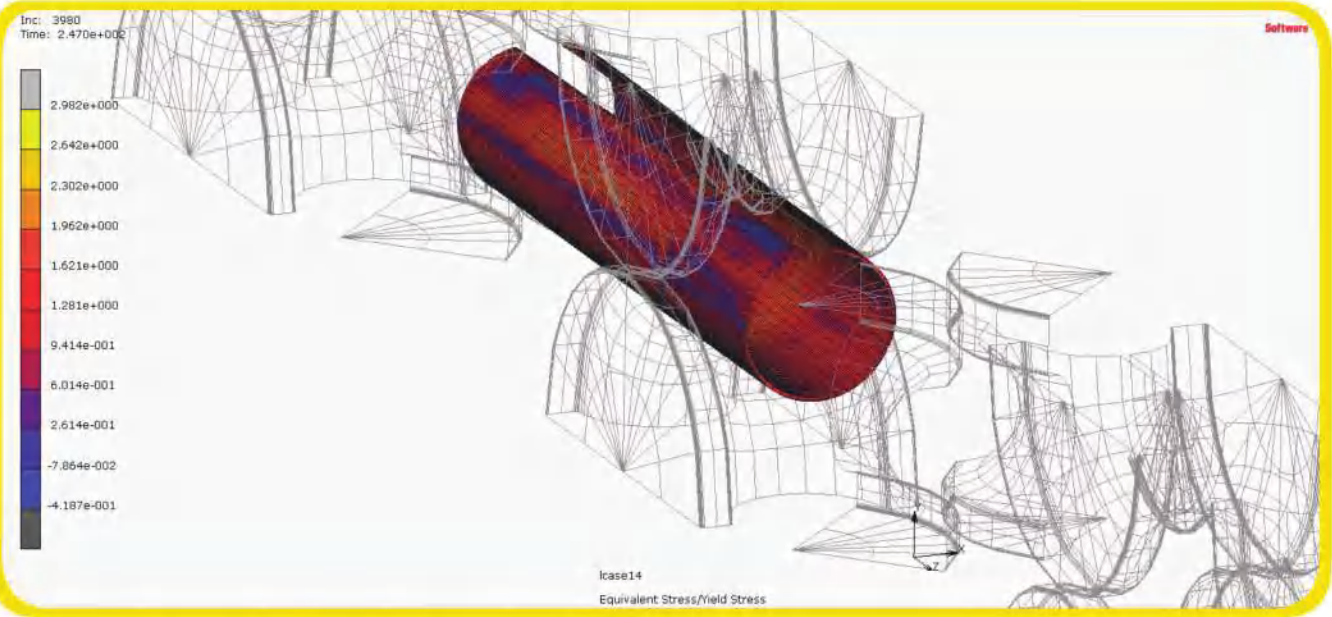
PROCESS CAPABILITY TUBE

PROCESS	TOLERANCE	THICKNESS	WEIGHT	LENGTH	DIMENSION		
					ROUND	SQUARE	RECTANGULAR
					MAXIMUM VALUES		
LASER CUTTING	± 0.12 mm ± 0.005"	8.00 mm 0.32"	35.00 kg/m 25.00 lb/ft	8.50 m 28.30 ft	210.00 mm 8.27"	200.00 mm 7.88"	127.00 mm x 152.00 mm 5.00" x 6.00"
BENDING	165.00 mm In Radius 0.05 mm X axis length 0.05 mm Y axis bending 0.05 mm Z axis rotation	6.00 mm 0.24"		3.70 m 12.14 ft	152.00 mm 6.00" CLR 450.00 mm	100.00 mm 3.94" CLR 200.00 mm	120.00 mm x 80.00 mm 4.72" x 3.15" CLR 160.00 mm BENT EASY WAY
CUT-TO-LENGTH angle 90°, 60° & 45°	± 0.15 mm ± 0.006"	15.88 mm 0.625"		6.00 m 19.69 ft	406.40 mm 16.00"	304.8 mm 12.00"	203.20 mm x 406.40 mm 8.00" x 16.00"
DRILLING	0.05 mm 0.002" In Diameter	1.50 mm 0.06"					

CLR: Centerline Radius

PROCESS CAPABILITY SHEET & PLATE

PROCESS	TOLERANCE	THICKNESS	WEIGHT	WIDTH	LENGTH	PRESS TONNAGE
2D LASER CUTTING	±0.05 mm ± 0.002"	25.00 mm 0.984"	1,700 kg 3,748 lb By Sheet	2,000 mm 78.74"	4,000 mm 157.48"	
BENDING CURTAIN	±0.05 mm ± 0.002"	12.00 mm 0.472"		3,230 mm 127.17"		170 MT 189 T



In-house Design, Simulation and Manufacturing of Tooling

We certify our products based on the ASTM (American Society for Testing and Materials) regulations; we guarantee their dimensions and properties.

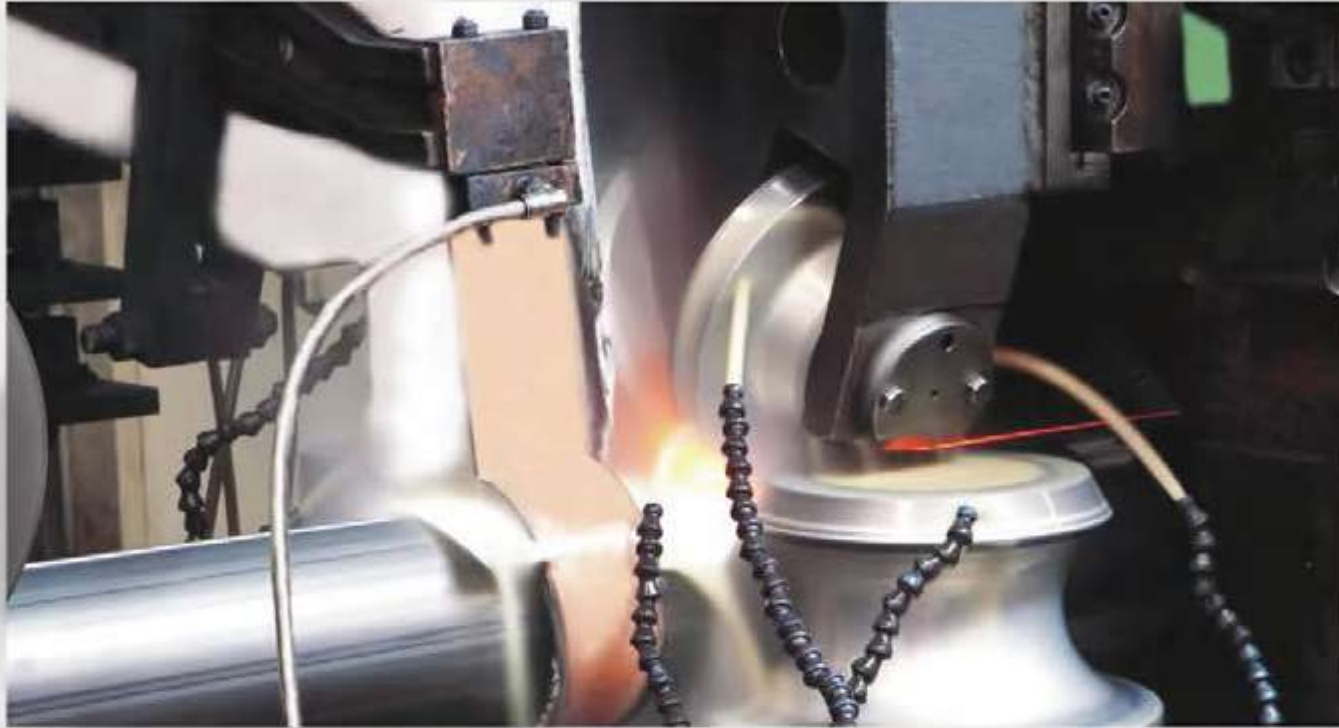
For raw materials	· Hot rollig: ASTM A 1011 · Cold rolling: ASTM A 1008 · Galvanizing: ASTM A 653
For tube manufacturing	· ASTM A 500 · ASTM A 513 · ASTM A 787



MECHANICAL PROPERTIES OF STEEL	ASTM A-513		ASTM A-500					
	COMMERCIAL QUALITY	HIGH RESISTANCE	ROUND TUBES			SQUARE AND RECTANGULAR		
	Type 1a, 1b and 2	HSLA G50	Grade A	Grade B	Grade C	Grade A	Grade B	Grade C
TENSION EFFORT, MIN, PSI, [MPA]	42 000 [290]	65 000 [448]	45 000 [310]	58 000 [400]	62 000 [425]	45 000 [310]	58 000 [400]	62 000 [425]
YIELD EFFORT, MIN, PSI, [MPA]	30 000 [207]	50 000 [345]	33 000 [230]	42 000 [290]	46 000 [315]	39 000 [270]	46 000 [315]	50 000 [345]
ELONGATION IN 2 INCHES [50MM], MIN%	15 CQ	22 HR	25 GA	23 GB	21 GC	25 GA	23 GB	21 GC

*: Typical Values.
1a: A.W.H.R. "as welded" from hot-rolled steel (with mill scale).
1b: A.W.P.O. "as welded" from hot-rolled pickled and oiled steel (mill scale removed).
2: A.W.C.R. "as welded" from cold-rolled steel.

ROLL FORMING



ERW TUBE MILL



PRE-PUNCHED

METAL FABRICATION



WELDING CELLS



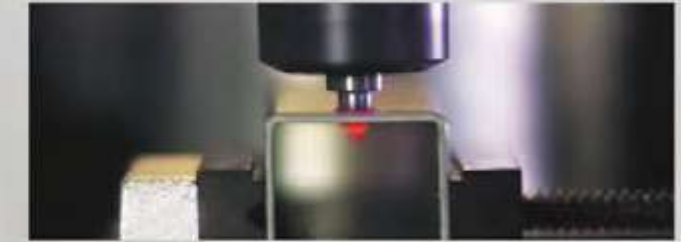
2D LASER CUTTING



CNC BENDING
CURTAIN



SECTION ROLLING



FLOW DRILLING



SLITTER



REAMING & CHAMFERING



CNC SAW CUTTING



PUNCHING PRESS & BRAKE



CNC LASER TUBE CUTTING



MITER SAW



4D LASER CUTTING



CNC BENDING

USA

US Headquarters

16420 Park Ten Place, Suite 412

Houston, Tx. USA, 77084

Phone: (281) 494-0900

sales@prolamsausa.com

US Plant

12002 Auburn Road, Laredo,

Tx. USA, 78045

Phone: (956) 718-2360

sales@prolamsausa.com

Axis Pipe and Tube

1451 Louis Mikulin Road,

Bryan, Tx. USA, 77807.

Phone: (979) 599-7600

axissales@axispipeandtube.com

MEXICO

Mexico Headquarters

Carretera a Colombia Km. 5.75

General Escobedo, N.L.

México., 66052

Ph. +52 (81) 8154-0200

ventas@prolamsa.com

To learn more, please visit: www.prolamsausa.com

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