

STEEL & IRON

PRODUCTS



VIRA GROUP
Import & Export Trading Company

Production of Grade 400 AJ According to SIRI 3132 Standard From Size of 8mm up to 32mm. The Rebars Sizes and Specification Are Mentioned on the Below Tables.

Dimension & Weight of rebar

Nominal Diameter	Diameter Tolerance	Cross-Sectional area (mm ²)	Weight per unit length (kg/m)	Weight tolerance (%)	Considerations
8	-0.5	50.3	0.395	8 ±	In the calculation of the weight, the density of the steel is considered to be 7.85gr/cm ³ The difference between minimum and maximum diameter (oval) is 70% in the range of tolerance
10		78.5	0.616	5.5 ±	
12		113.1	0.888		
14	154	1.21			
16	-0.5	201	1.58	4.5 ±	
18		254	2.00		
20	+0.4	314	2.47		
22	-0.6	380	2.98		
25		491	3.85		
28	+0.4	616	4.83		
32	-0.7	804	6.31	4.5 ±	
	+0.4				

Mechanical properties of rebar

Characteristics	Tensile Test			Cold Bend Test	
	Min. Yield Strength N/(mm) ²	Min. Tensile Strength U.T.S N/(mm) ²	Min. increase in relative strength N/(mm) ² (Percentage)	Bending Angle	Bending diameter/rebar Diameter
240 C	240	360	25	180	2d
340 AJ	340	500	18	180	3d (Degree)
400 AJ	400	600	16	180	5d
500 AJ	500	650	10	90	5d

Standard Equivalence

Characteristics	Equivalent Standards		
	GOST	ASTM	JIS
C 240	A _I	-	SR24
AJ 340	A _{II}	A615G40	SD35
AJ 400	A _{III}	A615G60	SD40
AJ 500	-	A615G75	SD50

Chemical composition of rebar

Chemical composition of the elements									
Sulfur S		Phosphorus P		Manganese Mn		Silisium Si		Carbon C	
MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
0.05	0	0.04	0	0.8	0.5	0.3	0.15	0.37	0.28

■ Of the applications of steel pipes, in addition to the construction, oil and gas industry, they are also used in manufacturing bicycles, motorcycles, and etc.

inside diameter (inches)	size (mm)	thickness (mm)	weight (kg)	inside diameter (inches)	size (mm)	thickness (mm)	weight (kg)	inside diameter (inches)	size (mm)	thickness (mm)	weight (kg)
2 1/2"	76	1.5	17.2	1"	33	2	9.7		19	1.5	4
2 1/2"	76	1.8	20.5		38	1.5	8.4		19	1.8	4.7
2 1/2"	76	2	23		38	1.8	10		19	2	5.2
3 1/2"	76	2.5	28		38	2	11	1.2"	21	1.5	4.5
4 1/2"	76	3	34		38	2.5	13.6	1.2"	21	1.8	5.3
3"	88	1.5	19.9		38	3	16.1	1.2"	21	2	5.8
3"	88	1.8	23.8	1 1/4"	42	1.5	9.4	1.2"	21	2.5	7.1
3"	88	2	27	1 1/4"	42	1.8	12.3		22	1.5	5.4
3"	88	2.5	33	1 1/4"	42	2	12.3		25	2	6.1
3"	88	3	40	1 1/4"	42	2.5	15.2		25	1.8	6.4
	102	1.5	23.2	1 1/4"	42	3	18		25	2	7
	102	1.8	27.7	1 1/2"	48	1.5	10.6		25	2.5	8.7
	102	2	31	1 1/2"	48	1.8	12.5		25	3	10.2
	102	2.5	38	1 1/2"	48	2	14	3.4"	26	1.5	5.6
	102	3	46	1 1/2"	48	2.5	18	3.4"	26	1.8	6.7
4"	114	1.8	31	4 1/2"	48	3	21	3.4"	26	2	7.3
4"	114	2	35		50	1.5	11.1	3.4"	26	2.5	9
4"	114	2.5	43		50	1.8	13.3	3.4"	26	3	10.6
4"	114	3	51		50	2	14		32	1.5	7
4"	114	3.5	60		50	2.5	18		32	1.8	8.3
-	-	-	-		50	3	22		32	2	9.2
-	-	-	-	2"	60	1.5	13.5		32	2.5	11.3
-	-	-	-	2"	60	1.8	16		32	3	13.4
-	-	-	-	2"	60	2	18	1"	33	2	9.5
-	-	-	-	2"	60	2.5	22	1"	33	2.5	11.7
-	-	-	-	2"	60	3	26	1"	33	3	13.8

In near future production line for gas pipes in different sizes will be launched .



TUBE TYPES

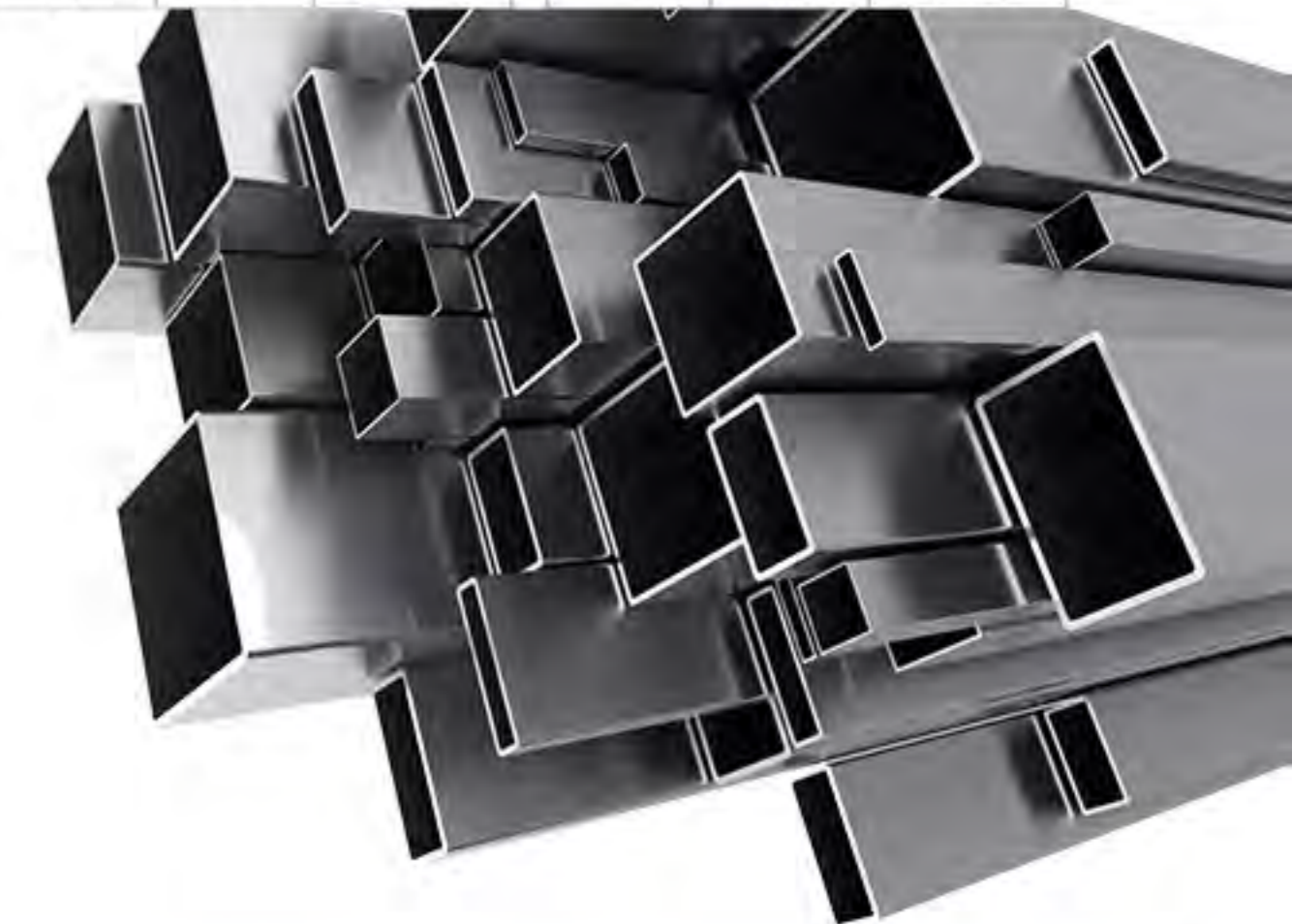


PROFILE BOX

03

■ Square and rectangular profiles are applied in medical supplies, the automotive industry, transportation, urban furniture, and so on.

Weight (kg)	Thickness (mm)	size (mm)	Weight (kg)	Thickness (mm)	size (mm)	Weight (kg)	Thickness (mm)	size (mm)	Weight (kg)	Thickness (mm)	size (mm)
35	2.5	100*50	19	2	60*40	13	2	40*30	4.1	1.5	20*10
42	3	100*50	24	2.5	60*40	16	2.5	40*30	4.8	1.8	20*10
56	3	100*100	28	3	60*40	19	3	40*30	5	2	20*10
74.5	4	100*100	23	2	60*60	11.1	1.5	40*40	6	2	20*15
48	3	120*60	29	2.5	60*60	13.6	1.8	40*40	5.5	1.5	20*20
56	3.5	120*60	34	3	60*60	15	2	40*40	6.4	1.8	20*20
64	4	120*60	27	2	70*70	19	2.5	40*40	7	2	20*20
79	5	120*60	33	2.5	70*70	22	3	40*40	6	2	25*10
94	6	120*60	40	3	70*70	13	2	50*20	7	2	25*15
42	2	120*120	16.8	1.5	80*40	13.6	1.8	50*30	9	2	25*25
53	2.5	120*120	20.6	1.8	80*40	15	2	50*30	6.4	1.8	30*10
63	3	120*120	23	2	80*40	19	2.5	50*30	7	2	30*10
73	3.5	120*120	29	2.5	80*40	22	3	50*30	7	1.5	30*20
83	4	120*120	34	3	80*40	17	2	50*40	9	2	30*20
175	3.5	135*135	30	2	80*80	21	2.5	50*40	8.3	1.5	30*30
199	4	135*135	38	2.5	80*80	25	3	50*40	11	2	30*30
63	2.5	135*135	45	3	80*80	19	2	50*50	13	2.5	30*30
75	3	135*135	34	2	90*90	24	2.5	50*50	16	3	30*30
87	3.5	135*135	43	2.5	90*90	28	3	50*50	13	2	35*35
63	2.5	140*140	51	3	90*90	15	2	60*20	16	2.5	35*35
75	3	140*140	27	2	100*40	15.6	1.8	60*30	19	3	35*35
87	3.5	140*140	33	2.5	100*40	17	2	60*30	8.3	1.5	40*20
99	4	140*140	40	3	100*40	21	2.5	60*30	10	1.8	40*20
123	5	140*140	21	1.5	100*50	25	3	60*30	11	2	40*20
-	-	-	25.5	1.8	100*50	14.4	1.5	60*40	14	2.5	40*20
-	-	-	28.5	2	100*50	17.2	1.8	60*40	10	1.5	40*30



SHEET

- Among the uses of sheet metal, one can mention all kinds of home appliances and automotive industries as well as public transportation, etc.

ضخامت ورق Thickness (mm)	ابعاد size (mm)
1.8~3	1000*2000
2~6	1250*2500
3~10	1500*3000
3~10	1500*6000



WIREROD

- The wires produced by Mehr Sahand Steel Company are of high quality in terms of size and packaging, and although they have not lost their chemical nature, they are very soft and flexible in terms of mechanical and physical properties.

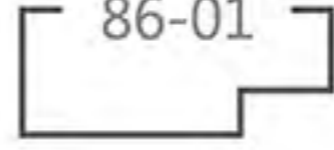
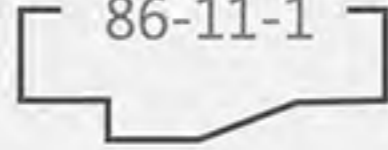
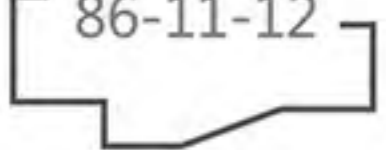
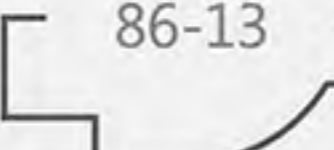
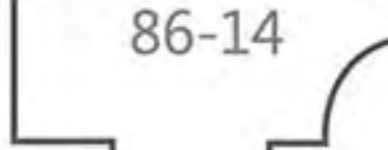
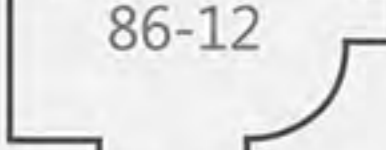
The wires produced in the company are available in the sizes 1/2, 1.5, 2, 2.5, 3 and 4.



SHEET WIREROD

04

- Among the applications of metal frame profiles, we can mention making door frames for wooden, MDF and HDF doors.

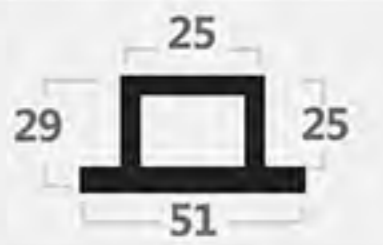
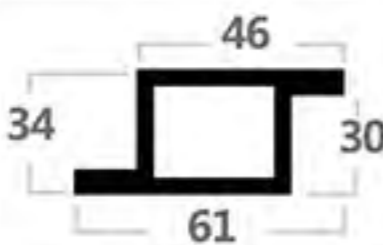
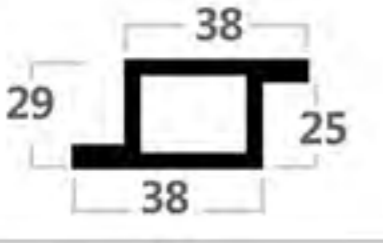

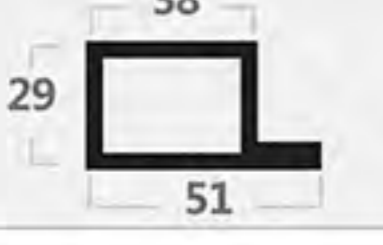
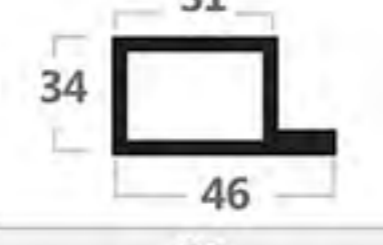
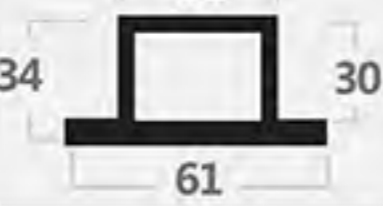
 86-01 چهار چوب معمولی Usual French Framework	 86-11-1 چهار چوب فرانسوی ۱ French Framework 1	 86-11-12 چهار چوب فرانسوی ۲ French Framework 2
 86-13 چهار چوب رومی Roman Framework	 86-14 چهار چوب مکزیکی داخلی Mexician Interior Framework	 86-12 چهار چوب مکزیکی Mexician Framework

All Items Could Be Custom-Made Upon Customer's Requests.



■ The formability, weldability, high strength and dimensional accuracy and surface quality of door and window profiles produced by Mehr Sahand Steel Company provide the possibility for making all kinds of doors and windows.

Thickness(mm)				name
T=2	T=1.8	T=1.5	T=1.2	
14	13.5	11	8.4	507
14	13.5	11	8.4	508
14	13.5	11	8.4	509
17	15	13.5	10	601 Z
17	15	13.5	10	602 T
14	13.5	11	8.4	501 L
5.5	5	4	3.3	95

 507	 601
 508	 95
 509	 501
	 602



DOOR&WINDOW FRAME





VIRA GROUP
Import & Export Trading Company