

RIBARS DATASHEET

Geometrical and version features of the ribbed rebars 340 and 400 herringbone ribs, produced by Khorasan Steel Company											
Nominal diameter	Nominal cross section mm2	Transverse rib				Longitudinal rib		step mm	Weight		Relative surface of the rib
		Maximum height from the row	¼ of the height from the middle	Minimum width	Maximum width	Maximum height	Nominal width		One meter length calculations kg	Tolerance in percentage	
10	78/5	0/65	0/45	1/0	2/0	1/0	1/0	6/5	0/616	+5/5	0/052
12	113/1	0/78	0/54	1/2	2/4	1/2	1/2	7/2	0/888		0/056
14	154	0/91	0/63	1/4	2/8	1/4	1/4	8/4	1/210		0/056
16	201	1/04	0/72	1/6	3/2	1/6	1/6	9/6	1/580	+4/5	0/056
18	254	1/17	0/81	1/8	3/6	1/8	1/8	10/8	2/000		0/056
20	314	1/30	0/90	2/0	4/0	2/0	2/0	12/0	2/470		0/056
22	380	1/43	0/99	2/2	4/4	2/2	2/2	13/2	2/980		0/056
25	491	1/63	1/13	2/5	5/0	2/5	2/5	15/0	3/850		0/056
28	616	1/82	1/26	2/8	5/6	2/8	2/8	16/8	4/830		0/056
32	804	2/09	1/44	3/2	6/4	3/2	3/2	19/1	6/310		0/056

Maximum weight percent of the chemical elements in rebars produced							
Classification	Characteristic	Carbon (c)	Silicon (si)	Manganese (mn)	Phosphorous (p)	Sulfur (s)	Maximum carbon equivalent *
Plain	240 s	0/24	0/60	0/85	0/055	0/055	-
With spiral ribs	340 Aj	0/34	0/65	1/40	0/050	0/050	0/50
With herringbone ribs	400 Aj	0/39	0/65	1/70	0/050	0/050	*
* In welding rebars the preheating conditions should be observed in compliance with the national Iranian standard 31332 (revised on 20.July.2010)							

Mechanica properties						
Classification	Characteristic	Stress test			Cold bending test	
		Minimum tension N/mm ²	yielding Minimum tensile strength N/mm ²	Minimum relative prolongation (A5)	Bending angle (degrees)	Bending diameter test of the rebar
Plain	240 s	240	360	25	180	2d
With spiral ribs	340Aj	340	500	18	180	3d
With herringbone ribs	400Aj	400	600	16	180	5d
Nominal diameter of the d rebars The initial length of the sample has been taken five times as much as the nominal diameter of the rebar						

Geometrical and version specifications of the plain rebars produced by Khorasgan Steel Complex Company						
Nominal diameter	Tolerance mm	Diametrical variations	Rebar's one meter calculated weight kg	Tolerance in percentage	Nominal cross section of the rebar mm2	
10	0/3 +	Maximum / minimum diameter difference (ellipticality) must be within the 70 percent tolerance	0/616	5/5 + -	78/5	
12	0/5 -		0/888		113/1	
14			1/210		154	
16	0/4 +		1/580	4/5 + -	201	
18			0/5 -		2/000	254
20					2/470	314
22					2/980	380
25	0/4 +		3/850		491	
28	0/6 -		4/830		616	
32			0/4 +		6/310	804
36	0/7 -				7/990	1018
40					9/870	1257