



## Long Products

Beams, Channels and Angles

# HISTAR A913 Grade 50 and Grade 65

**ArcelorMittal** (formerly Arcelor & Mittal Steel) is the world's largest producer of structural shapes and the largest US importer of WF beams having served this market for over 75 years. Our ASTM A913 Gr.50 and Gr.65 steels offer superior beam characteristics including higher yield strength, excellent toughness and outstanding weldability, in most cases without preheating. ArcelorMittal also produces WF beams sizes W14x426 thru W14x730 (Jumbos) and numerous deep W36, W40 and W44 beams unavailable domestically.



### Applications for A913 Gr.65

- Gravity Columns
- Long Span Trusses
- Seismic designs – Strong Column / Weak Beam concept
- Short or medium span beams e.g. for bridges

You can realize significant savings using grade 65 steel. On average the weight savings generated by grade 65 versus grade 50 is about 15 to 25% for columns and 20 to 30% for long span trusses. With no grade extra for A913 Gr.50 or Gr.65 this weight savings corresponds directly to cost savings and that's without considering the additional savings due to welding, transportation, erection... and so on.

### Our A913 Gr.65 sections have been used in

- High-Rise Structures
- Stadiums (especially with Retractable Roofs)
- Convention Centers
- Casinos
- Hospitals

### Recent Projects ASTM A913 Gr.65 HISTAR

- Palazzo Casino – Las Vegas, NV
- Hearst Tower – 42 Floors – Manhattan
- Arizona Cardinals NFL Stadium – Phoenix, AZ
- Dallas Cowboys Stadium – Arlington, TX
- "The Bow" – 58 floors – Calgary, AB
- Torre Mayor, 56 floors – Mexico City
- Convention Center – Vancouver, BC

If a project should for some reason not lend itself to Gr.65, every structural engineer should consider specifying the use of A913 Gr.50 in place of A992 or A572 Gr.50. Remember that A913 Gr.50 has the "no preheat" welding advantage and is a tougher, high quality product.

Our engineering department would be happy to provide you with free technical assistance for any A913 Gr.50 or Gr.65 solution you would like to present for any project.



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## WF Beams

### Section Footweights

4 x 4	13																		
5 x 5	16	19																	
6 x 4	9	12	16																
6 x 6	15	20	25																
8 x 4	10	13	15																
8 x 5 1/4	18	21																	
8 x 6 1/2	24	28																	
8 x 8	31	35	40	48	58	67													
10 x 4	12	15	17	19															
10 x 5 3/4	22	26	30																
10 x 8	33	39	45																
10 x 10	49	54	60	68	77	88	100	112											
12 x 4	14	16	19	22															
12 x 6 1/2	26	30	35																
12 x 8	40	45	50																
12 x 10	53	58																	
12 x 12	65	72	79	87	96	106	120	136	152	170	190	210	230						
14 x 5	22	26																	
14 x 6 3/4	30	34	38																
14 x 8	43	48	53																
14 x 10	61	68	74	82															
14 x 14 1/2	90	99	109	120	132														
14 x 16	145	159	176	193	211	233	257	283	311	342	370	398							
14 x 16	426	455	500	550	605	665	730												
16 x 5 1/2	26	31																	
16 x 7	36	40	45	50	57														
16 x 10 1/4	67	77	89	100															
18 x 6	35	40	46																
18 x 7 1/2	50	55	60	65	71														
18 x 11	76	86	97	106	119	130	143	158	175										
21 x 6 1/2	44	50	57																
21 x 8 1/4	62	68	73	83	93														
24 x 7	55	62																	
24 x 9	68	76	84	94	103														
24 x 12 3/4	104	117	131	146	162	176	192	207	229	250	279	306	335	370					
27 x 10	84	94	102	114	129														
30 x 10 1/2	90	99	108	116	124	132	148												
33 x 11 1/2	118	130	141	152	169														
36 x 12	135	150	160	170	182	194	210												
36 x 16 1/2 - old	230	245	260	280	300	328	359	393	439	527	650								
40 x 12	149	167	183	211	235	264	278	294	331	392									
40 x 16	199	215	249	277	297	324	362	372	397	431	503	593							
44 x 16	230	262	290	335															

Underlined sizes are also available in a limited supply from our Arkansas stock.

## S – Beams

### Section Footweights

3	5.7	7.5	
4	7.7	9.5	
5	10		
6	12.5	17.25	
7	15.3	20	
8	18.4	23	
10	25.4	35	
12	31.8	35	
12	40.8	50	
15	42.9	50	
18	54.7	70	
20	66	75	
20	86	96	
24	80	90	100
24	106	121	

## MC Channels

### Section Footweights

6	15.1	15.3			
7	19.1	22.7			
8	18.7	20			
8	21.4	22.8			
9	23.9	25.4			
10	22	25			
10	28.5	33.6	41.1		
12	31	35	40	45	50
18	42.7	45.8	51.9	58	

## Channels

### Section Footweights

8	11.5	13.75
10	15.3	20
12	20.7	25

## Angles

### Section Footweights

2 x 2	3/16	1/4							
3 x 3	1/4	5/16	3/8						
3 1/2 x 3 1/2	1/4	5/16	3/8						
4 x 4	5/16	3/8	7/16						
5 x 5	5/16	3/8	7/16	1/2					
6 x 6	3/8	7/16	1/2	6/16	5/8				
8 x	1/2	9/16	5/8	3/4	7/8	9/16	1	1 1/8	

## Unequal Angles

### Section Footweights

5 x 3	5/16
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