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Sections and Merchant Bars



ArcelorMittal

Super Jumbos Extra Heavy Section Sizes

ArcelorMittal is the world's leading producer of structural steel shapes. As a result of sustained investments in innovation and development, we are able to offer most diverse product range of its kind, meeting the strict technical, quality and environmental requirements.

Customer satisfaction, performance and innovation are our primary objectives.

Super Jumbo Sections

Super Jumbos are very heavy rolled wide flange sections with up to 140 mm (5 1/2 in.) flange thickness and weigh up to 1377 kg/m (925lbs/ft). They are available in very high strength steels including ASTM A913/ grades 485, 450 and 345 MPa (70, 65 and 50 ksi), ETA-10/0156 / HISTAR 460, EN 10025 / S460M and in normal strength steel grades (355 MPa).

An outstanding feature of these very high strength steels is their low carbon equivalent values, allowing easier processing by the fabricators. As such, preheating before welding can usually be avoided and lead to substantial time and cost savings.

When the design of an element is not governed by deflection, higher strength steel enables an average of 20% weight and cost reduction on the structural elements. These savings apply also to the carbon footprint. Steel sections have an infinite recycling life and a 99% recovery rate.

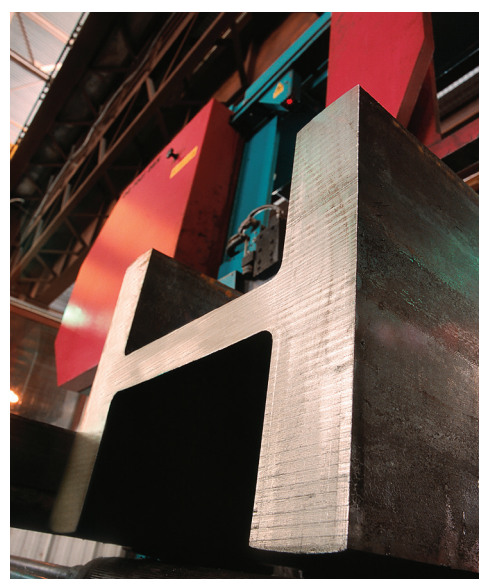
Product Applications

Super Jumbos have been successfully used in columns, trusses, out-riggers and belt trusses for various project around the world including One World Trade Center in New York City (USA), the Shanghai World Trade Center (China) and the top structure of the Burj Khalifa in Dubai (U.A.E.).

Technical Advisory

Upon request, we offer free technical advice to optimize the use of our products in your projects as well as to answer any questions you may have.

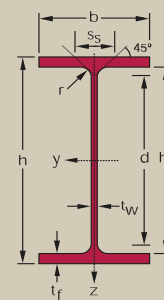
Our technical expertise and assistance includes the design of structural elements, construction details, surface protection, fire safety, metallurgy and welding process. Thanks to our high strength steels and Super Jumbos, we are convinced that we will find together the best structural solutions to reduce the overall cost of your projects.



Wide flange beams

Dimensions: ASTM A 6/A 6M -- BS 4

Tolerances: ASTM A 6/A 6M -- EN 10034

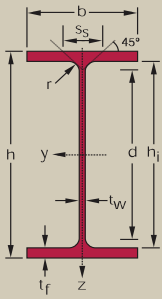


Designation				Dimensions										Steel Grade		
American		European	British	G		h		b		t _w		t _f		r	A572/A709/A992 EN 10025-2/-4	A913/HISTAR ETA 10/0156
W (imperial)	W (metric)	HD / HL	UB / UC	lbs/ft	kg/m	in	mm	in	mm	in	mm	in	mm	mm		
W 14 x 16 x 145	W 360 x 410 x 216	HD 400 x 216		145	216	14.78	375	15.500	394	0.680	17.3	1.090	27.7	15	✓	✓
			UC 356 x 406 x 235		235.1		381.0		394.8		18.4		30.2	15.2	✓	✓
W 14 x 16 x 159	W 360 x 410 x 237	HD 400 x 237		159	237	14.98	380	15.565	395	0.745	18.9	1.190	30.2	15	✓	✓
W 14 x 16 x 176	W 360 x 410 x 262	HD 400 x 262		176	262	15.22	387	15.650	398	0.830	21.1	1.310	33.3	15	✓	✓
W 14 x 16 x 193	W 360 x 410 x 287	HD 400 x 287		193	287	15.48	393	15.710	399	0.890	22.6	1.440	36.6	15	✓	✓
			UC 356 x 406 x 287		287.1		393.6		399.0		22.6		36.5	15.2	✓	✓
W 14 x 16 x 211	W 360 x 410 x 314	HD 400 x 314		211	314	15.72	399	15.800	401	0.980	24.9	1.560	39.6	15	✓	✓
			UC 356 x 406 x 340		339.9		406.4		403.0		22.6		42.9	15.2	✓	✓
W 14 x 16 x 233	W 360 x 410 x 347	HD 400 x 347		233	347	16.04	407	15.890	404	1.070	27.2	1.720	43.7	15	✓	✓
W 14 x 16 x 257	W 360 x 410 x 382	HD 400 x 382		257	382	16.38	416	15.995	406	1.175	29.8	1.890	48.0	15	✓	✓
			UC 356 x 406 x 393		393.0		419.0		407.0		30.6		49.2	15.2	✓	✓
W 14 x 16 x 283	W 360 x 410 x 421	HD 400 x 421		283	421	16.74	425	16.110	409	1.290	32.8	2.070	52.6	15	✓	✓
W 14 x 16 x 311	W 360 x 410 x 463	HD 400 x 463		311	463	17.12	435	16.230	412	1.410	35.8	2.260	57.4	15	✓	✓
			UC 356 x 406 x 467		467.0		436.6		412.2		35.8		58.0	15.2	✓	✓
W 14 x 16 x 342	W 360 x 410 x 509	HD 400 x 509	UC 356 x 406 x 509	342	509	17.54	446	16.360	416	1.540	39.1	2.470	62.7	15	✓	✓
			UC 356 x 406 x 551		551.0		455.6		418.5		42.1		67.5	15.2	✓	✓
W 14 x 16 x 370	W 360 x 410 x 551	HD 400 x 551		370	551	17.92	455	16.475	418	1.655	42.0	2.660	67.6	15	✓	✓
W 14 x 16 x 398	W 360 x 410 x 592	HD 400 x 592	UC 356 x 406 x 592	398	592	18.29	465	16.590	421	1.770	45.0	2.845	72.3	15	✓	✓
W 14 x 16 x 426	W 360 x 410 x 634	HD 400 x 634		426	634	18.67	474	16.695	424	1.875	47.6	3.035	77.1	15	✓	✓
			UC 356 x 406 x 634		633.9		474.6		424.0		47.6		77.0	15.2	✓	✓
W 14 x 16 x 455	W 360 x 410 x 677	HD 400 x 677	UC 356 x 406 x 677	455	677	19.02	483	16.835	428	2.015	51.2	3.210	81.5	15	✓	✓
W 14 x 16 x 500	W 360 x 410 x 744	HD 400 x 744	UC 356 x 406 x 744	500	744	19.60	498	17.010	432	2.190	55.6	3.500	88.9	15	✓	✓
W 14 x 16 x 550	W 360 x 410 x 818	HD 400 x 818	UC 356 x 406 x 818	550	818	20.24	514	17.200	437	2.380	60.5	3.820	97.0	15	✓	✓
W 14 x 16 x 605	W 360 x 410 x 900	HD 400 x 900	UC 356 x 406 x 900	605	900	20.92	531	17.415	442	2.595	65.9	4.160	106	15	✓	✓
W 14 x 16 x 665	W 360 x 410 x 990	HD 400 x 990	UC 356 x 406 x 990	665	990	21.64	550	17.650	448	2.830	71.9	4.520	115	15	✓	✓
W 14 x 16 x 730	W 360 x 410 x 1086	HD 400 x 1086	UC 356 x 406 x 1086	730	1086	22.42	569	17.890	454	3.070	78.0	4.910	125	15	✓	✓
New W 14 x 16 x 808	New W 360 x 410 x 1202	New HD 400 x 1202	New UC 356 x 406 x 1202	808	1202	22.84	580	18.560	471	3.740	95.0	5.120	130.0	15	✓	✓
New W 14 x 16 x 873	New W 360 x 410 x 1299	New HD 400 x 1299	New UC 356 x 406 x 1299	873	1299	23.62	600	18.755	476	3.935	100.0	5.510	140.0	15	✓	✓

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American		European	British	G		h		b		t _w		t _f		r	A572/A709/A992 EN 10025-2/-4	A913/HISTAR ETA 10/0156
W (imperial)	W (metric)	HD / HL	UB / UC	lbs/ft	kg/m	in.	mm	in.	mm	in.	mm	in.	mm	mm		
			UB 914 x 419 x 343		343.3		911.8		418.5		19.4		32.0	24.1	✓	✓
W 36 x 16.5 x 231	W 920 x 420 x 344	HL 920 x 344		231	344	36.49	927	16.470	418	0.760	19.3	1.260	32.0	19	✓	✓
W 36 x 16.5 x 247	W 920 x 420 x 368	HL 920 x 368		247	368	36.67	931	16.510	419	0.800	20.3	1.350	34.3	19	✓	✓
			UB 914 x 419 x 388		388.0		921.0		420.5		21.4		36.6	24.1	✓	✓
W 36 x 16.5 x 262	W 920 x 420 x 390	HL 920 x 390		262	390	36.85	936	16.550	420	0.840	21.3	1.440	36.6	19	✓	✓
W 36 x 16.5 x 282	W 920 x 420 x 420	HL 920 x 420		282	420	37.11	943	16.595	422	0.885	22.5	1.570	39.9	19	✓	✓
W 36 x 16.5 x 302	W 920 x 420 x 449	HL 920 x 449		302	449	37.33	948	16.655	423	0.945	24.0	1.680	42.7	19	✓	✓
W 36 x 16.5 x 330	W 920 x 420 x 491	HL 920 x 491		330	491	37.67	957	16.630	422	1.020	25.9	1.850	47.0	19	✓	✓
W 36 x 16.5 x 361	W 920 x 420 x 537	HL 920 x 537		361	537	37.99	965	16.730	425	1.120	28.4	2.010	51.1	19	✓	✓
W 36 x 16.5 x 395	W 920 x 420 x 588	HL 920 x 588		395	588	38.37	975	16.830	427	1.220	31.0	2.200	55.9	19	✓	✓
W 36 x 16.5 x 441	W 920 x 420 x 656	HL 920 x 656		441	656	38.85	987	16.965	431	1.360	34.5	2.440	62.0	19	✓	✓
W 36 x 16.5 x 487	W 920 x 420 x 725	HL 920 x 725		487	725	39.33	999	17.105	434	1.500	38.1	2.680	68.1	19	✓	✓
W 36 x 16.5 x 529	W 920 x 420 x 787	HL 920 x 787		529	787	39.79	1011	17.220	437	1.610	40.9	2.910	73.9	19	✓	✓
W 36 x 16.5 x 652	W 920 x 420 x 970	HL 920 x 970		652	970	41.05	1043	17.575	446	1.970	50.0	3.540	89.9	19	✓	✓
W 36 x 16.5 x 723	W 920 x 420 x 1077	HL 920 x 1077		723	1077	41.79	1061	17.755	451	2.165	55.0	3.900	99.1	19	✓	✓
W 36 x 16.5 x 802	W 920 x 420 x 1194	HL 920 x 1194		802	1194	42.57	1081	17.990	457	2.380	60.5	4.290	109.0	19	✓	✓
W 36 x 16.5 x 853	W 920 x 420 x 1269	HL 920 x 1269		853	1269	43.05	1093	18.150	461	2.520	64.0	4.530	115.1	19	✓	✓
W 36 x 16.5 x 925	W 920 x 420 x 1377	HL 920 x 1377		925	1377	43.05	1093	18.620	473	3.020	76.7	4.530	115.1	19	✓	✓
W 40 x 16 x 199	W 1000 x 400 x 296	HL 1000 AA		199	296	38.67	982	15.750	400	0.650	16.5	1.065	27.1	30	✓	✓
W 40 x 16 x 215	W 1000 x 400 x 321	HL 1000 AA		215	321	38.98	990	15.750	400	0.650	16.5	1.220	31.0	30	✓	✓
W 40 x 16 x 249	W 1000 x 400 x 371	HL 1000 B		249	371	39.38	1000	15.750	400	0.750	19.0	1.420	36.1	30	✓	✓
W 40 x 16 x 277	W 1000 x 400 x 412	HL 1000 M		277	412	39.69	1008	15.830	402	0.830	21.1	1.575	40.0	30	✓	✓
W 40 x 16 x 297	W 1000 x 400 x 443	HL 1000 x 443		297	443	39.84	1012	15.825	402	0.930	23.6	1.650	41.9	30	✓	✓
W 40 x 16 x 324	W 1000 x 400 x 483	HL 1000 x 483		324	483	40.16	1020	15.910	404	1.000	25.4	1.810	46.0	30	✓	✓
W 40 x 16 x 362	W 1000 x 400 x 539	HL 1000 x 539		362	539	40.55	1030	16.020	407	1.120	28.4	2.010	51.1	30	✓	✓
W 40 x 16 x 372	W 1000 x 400 x 554	HL 1000 x 554		372	554	40.63	1032	16.065	408	1.160	29.5	2.045	52.0	30	✓	✓
W 40 x 16 x 397	W 1000 x 400 x 591	HL 1000 x 591		397	591	40.95	1040	16.120	409	1.220	31.0	2.200	55.9	30	✓	✓
W 40 x 16 x 431	W 1000 x 400 x 642	HL 1000 x 642		431	642	41.26	1048	16.220	412	1.340	34.0	2.360	60.0	30	✓	✓
W 40 x 16 x 503	W 1000 x 400 x 748	HL 1000 x 748		503	748	42.05	1068	16.415	417	1.535	39.0	2.755	70.0	30	✓	✓
W 40 x 16 x 593	W 1000 x 400 x 883	HL 1000 x 883		593	883	42.92	1092	16.690	424	1.790	45.5	3.230	82.0	30	✓	✓
W 40 x 16 x 655	W 1000 x 400 x 976	HL 1000 x 976		655	976	43.62	1108	16.870	428	1.970	50.0	3.540	89.9	30	✓	✓

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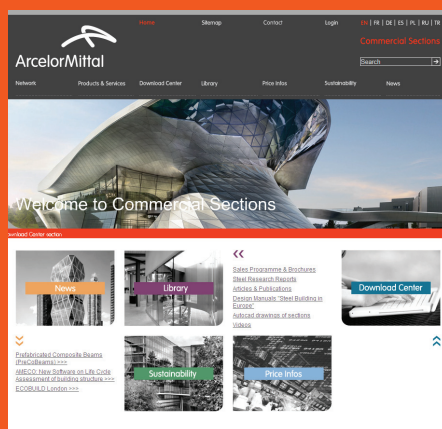
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For more informations, please consult our Sales Programme :

- Full section range with dimensions, static values and details
- Available steel grades and qualities
- Rolling tolerances

available for download : sections.arcelormittal.com