

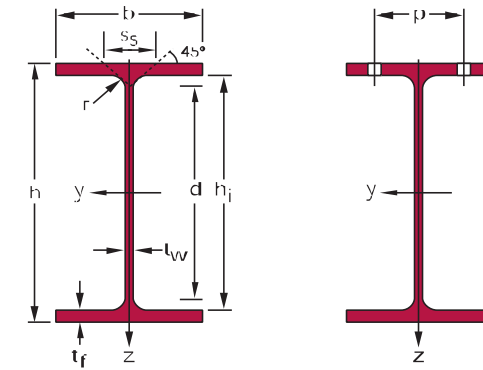
**American wide flange beams**

Dimensions: ASTM A 6/A 6M - 10

Tolerances: ASTM A 6/A 6M - 10

Surface condition: according to ASTM A 6/A 6M - 10

# New W sections



11/26/2010

Désignation Designation Bezeichnung (metric)	Dimensions Abmessungen						Dimensions de construction Dimensions for detailing Konstruktionsmaße						Surface Oberfläche	
	G	h	b	t <sub>w</sub>	t <sub>f</sub>	r	A	h <sub>1</sub>	d	Ø	p <sub>min</sub>	p <sub>max</sub>	A <sub>L</sub>	A <sub>G</sub>
	kg/m	mm	mm	mm	mm	mm	mm <sup>2</sup> x10 <sup>2</sup>	mm	mm	mm	mm	mm	m <sup>2</sup> /m	m <sup>2</sup> /t
W 920 x 420 x 342*	342	912	418	19.3	32.0	24	436.1	848.0	800.0	M27	126	312	3.416	9.976
W 920 x 420 x 365*	365	916	419	20.3	34.3	24	464.4	847.4	799.4	M27	128	314	3.426	9.398
W 920 x 420 x 387*	387	921	420	21.3	36.6	24	493.0	847.8	799.8	M27	128	314	3.438	8.885
W 920 x 420 x 417*	417	928	422	22.5	39.9	24	532.5	848.2	800.2	M27	130	316	3.458	8.271
W 920 x 420 x 446*	446	933	423	24.0	42.7	24	569.6	847.6	799.6	M27	130	318	3.469	7.758
W 920 x 420 x 488*	488	947	427	27.1	47.6	24	630.3	848.2	800.2	M27	132	316	3.479	7.134
W 920 x 420 x 534*	534	950	425	28.4	51.1	24	680.1	847.8	799.8	M27	136	320	3.502	6.560
W 920 x 420 x 585*	585	960	427	31.0	55.9	24	745.3	848.2	800.2	M27	138	322	3.525	6.025
W 920 x 420 x 653*	653	972	431	34.5	62.0	24	831.9	848.0	800.0	M27	144	320	3.558	5.448
W 920 x 420 x 784*	784	996	437	40.9	73.9	24	997.7	848.2	800.2	M27	152	326	3.617	4.618
W 920 x 420 x 967*	967	1028	446	50.0	89.9	24	1231	848.2	800.2	M27	160	334	3.699	3.826
W 920 x 420 x 344*	344	927	418	19.3	32.0	19	437.2	863.0	825.0	M27	126	312	3.455	10.07
W 920 x 420 x 368*	368	931	419	20.3	34.3	19	465.6	862.4	824.4	M27	128	314	3.465	9.480
W 920 x 420 x 390*	390	936	420	21.3	36.6	19	494.3	862.8	824.8	M27	128	314	3.477	8.960
W 920 x 420 x 420*	420	943	422	22.5	39.9	19	534.1	863.2	825.2	M27	130	316	3.496	8.340
W 920 x 420 x 449*	449	948	423	24.0	42.7	19	571.4	862.6	824.6	M27	130	318	3.507	7.820
W 920 x 420 x 491*	491	957	422	25.9	47.0	19	623.3	863.0	825.0	M27	132	316	3.518	7.189
W 920 x 420 x 537*	537	965	425	28.4	51.1	19	682.5	862.8	824.8	M27	136	320	3.541	6.609
W 920 x 420 x 588*	588	975	427	31.0	55.9	19	748.1	863.2	825.2	M27	138	322	3.563	6.068
W 920 x 420 x 656*	656	987	431	34.5	62.0	19	835.3	863.0	825.0	M27	144	320	3.596	5.485
W 920 x 420 x 725*	725	999	434	38.1	68.1	19	922.9	862.8	824.8	M27	148	323	3.625	5.004
W 920 x 420 x 787*	787	1011	437	40.9	73.9	19	1002	863.2	825.2	M27	152	326	3.656	4.647
W 920 x 420 x 970*	970	1043	446	50.0	89.9	19	1237	863.2	825.2	M27	160	334	3.737	3.850
W 920 x 420 x 1077**	1077	1061	451	55.0	99.1	19	1372	863.2	825.2	M27	166	340	3.784	3.514
W 920 x 420 x 1194**	1194	1081	457	60.5	109	19	1522	863.2	825.2	M27	172	346	3.837	3.212
W 920 x 420 x 1269**	1269	1093	461	64.0	115.1	19	1617	863.2	825.2	M27	174	350	3.870	3.049
W 920 x 420 x 1377**	1377	1093	473	76.7	115.1	19	1754	863.2	825.2	M27	188	362	3.893	2.827
W 360 x 410 x 1202	1202	580	471	95.0	130.0	15.4	1530	320.0	289.2	M27	188	360	2.828	2.353
W 360 x 410 x 1299	1299	600	476	100.0	140.0	15.4	1650	320.0	289.2	M27	192	364	2.878	2.215
W 1000 x 400 x 976	976	1108	428	50	89.9	30	1243	928.2	868.2	M27	172	316	3.776	3.875

\* Dimensions according to ASTM A 6/A 6M - 03c

Désignation Designation Bezeichnung (imperial)	Valeurs statiques / Section properties / Statische Kennwerte															Classification EN 1993-1-1: 2005					
	axe fort y-y strong axis y-y starke Achse y-y						axe faible z-z weak axis z-z schwache Achse z-z						Pure bending y-y			Pure compression					
	G	I <sub>y</sub>	W <sub>el,y</sub>	W <sub>pl,y</sub> ♦	i <sub>y</sub>	A <sub>vz</sub>	I <sub>z</sub>	W <sub>el,z</sub>	W <sub>pl,z</sub> ♦	i <sub>z</sub>	s <sub>s</sub>	I <sub>t</sub>	I <sub>w</sub>	S 235	S 355	S 460	S 235	S 355	S 460		
	lbs/ft	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm x10	mm <sup>2</sup> x10 <sup>2</sup>	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm x10	mm	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>6</sup> x10 <sup>9</sup>								
W 36 x 16.5 x 230	230	624900	13700	15450	37.85	190.1	39010	1867	2882	9.46	111.4	1193	75410	1	1	1	3	4	4	0	0
W 36 x 16.5 x 245	245	670500	14640	16520	38.00	200.4	42120	2011	3106	9.52	117.0	1446	81730	1	1	1	3	4	4	0	0
W 36 x 16.5 x 260	260	718300	15600	17630	38.17	210.9	45280	2156	3332	9.58	122.6	1734	88370	1	1	1	2	4	4	0	0
W 36 x 16.5 x 280	280	787600	16970	19210	38.46	223.9	50070	2373	3668	9.70	130.4	2200	98540	1	1	1	2	4	4	0	0
W 36 x 16.5 x 300	300	846800	18150	20600	38.56	239.1	53980	2552	3951	9.73	137.5	2685	106700	1	1	1	2	3	4	0	0
W 36 x 16.5 x 328	328	935400	19860	22170	38.65	254.8	59380	2852	4291	9.75	148.0	3514	117900	1	1	1	1	2	4	0	0
W 36 x 16.5 x 359	359	1031000	21710	24830	38.94	284.8	65560	3085	4796	9.82	158.7	4542	132100	1	1	1	1	2	3	0	0
W 36 x 16.5 x 393	393	1143000	23810	27360	39.16	312.0	72770	3408	5310	9.88	170.9	5932	148200	1	1	1	1	1	2	0	0
W 36 x 16.5 x 439	439	1292000	26590	30730	39.41	348.7	83050	3854	6022	9.99	186.6	8124	171300	1	1	1	1	1	1	0	0
W 36 x 16.5 x 527	527	1593000	31980	37340	39.95	417.6	103300	4728	7424	10.18	216.8	13730	218500	1	1	1	1	1	1	0	0
W 36 x 16.5 x 650	650	2033000	39540	46810	40.64	517.1	133900	6003	9486	10.43	257.9	24930	292400	1	1	-	1	1	-	0	0
W 36 x 16.5 x 231	231	645000	13920	15700	38.41	188.0	39010	1867	2880	9.45	105.6	1159	78120	1	1	1	4	4	4	0	0
W 36 x 16.5 x 247	247	692200	14870	16790	38.56	198.2	42120	2010	3104	9.51	111.2	1408	84670	1	1	1	3	4	4	0	0
W 36 x 16.5 x 262	262	741700	15850	17920	38.74	208.6	45270	2156	3331	9.57	116.8	1691	91550	1	1	1	3	4	4	0	0
W 36 x 16.5 x 282	282	813300	17250	19530	39.02	221.5	50070	2373	3667	9.68	124.6	2151	102100	1	1	1	2	4	4	0	0
W 36 x 16.5 x 302	302	874700	18450	20950	39.13	236.6	53970	2552	3949	9.72	131.7	2627	110600	1	1	1	2	4	4	0	0
W 36 x 16.5 x 330	330	966300	20200	23000	39.37	256.6	59000	2796	4335	9.73	142.2	3441	122200	1	1	1	1	3	4	0	0
W 36 x 16.5 x 361	361	1066000	22080	25270	39.51	282.1	65550	3085	4795	9.80	152.9	4447	136900	1	1	1	1	2	3	0	0
W 36 x 16.5 x 395	395	1181000	24230	27840	39.74	309.3	72760	3408	5310	9.86	165.1	5859	153200	1	1	1	1	1	2	0	0
W 36 x 16.5 x 441	441	1335000	27060	31270	39.98	345.8	83040	3853	6022	9.97	180.8	7950	177600	1	1	1	1	1	2	0	0
W 36 x 16.5 x 487	487	1492000	29880	34740	40.21	383.6	93200	4295	6734	10.05	196.6	10570	201900	1	1	1	1	1	1	0	0
W 36 x 16.5 x 529	529	1646000	32560	38010	40.53	414.5	103300	4728	7425	10.15	211.0	13430	226800	1	1	1	1	1	1	0	0
W 36 x 16.5 x 652	652	2100000	40270	47660	41.21	513.8	133900	6002	9490	10.40	252.1	24320	304000	1	1	1	1	1	1	0	0
W 36 x 16.5 x 723	723	2377000	44790	53390	41.63	570.0	152700	6773	10740	10.55	275.5	33170	350800	1	1	-	1	1	-	0	0
W 36 x 16.5 x 802	802	2694000	49830	59830	42.08	632.7	175000	7660	12180	10.72	300.8	44370	409700	1	1	-	1	1	-	0	0
W 36 x 16.5 x 853	853	2900000	53040	63960	42.35	672.9	189900	8237	13130	10.84	316.5	52500	449700	1	1	-	1	1	-	0	0
W 36 x 16.5 x 925	925	3034000	55500	67680	41.59	797.2	206300	8723	14160	10.85	329.2	61190	485700	1	1	-	1	1	-	0	0
W 14 x 16 x 808	808	663600	22880	30020	20.82	469.6	228700	9712	15150	12.22	373.0	79230	114600	1	1	1	1	1	1	0	0
W 14 x 16 x 873	873	754600	25150	33250	21.35	505.2	254400	10690	16670	12.40	398.0	98140	133100	1	1	1	1	1	1	0	0
W 40 x 16 x 655	655	2349000	42400	50300	43.50	570.7	118500	5538	8839	9.77	264.9	24770	304400	1	1	-	1	1	-	0	0

\* New sections, dimensions according to ASTM A6/A6M 2011\*

"Old" W920x420 range	to be replaced by	"New" W920x420
4 additional heavy W920x420		
2 additional heavy W360x410		
1 additional heavy W1000x400		