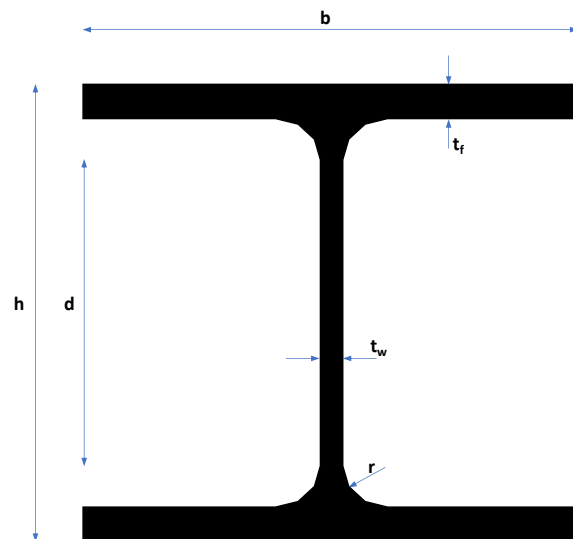


HEB	100	120	140	160	180	200	220	240	260	280	300	320	340	360	400	450	500	550	600	650	700	800	900	1000
masse	20.4	26.7	33.7	42.6	51.2	61.3	71.5	83.2	93	103	117	127	134	142	155	171	187	199	212	225	241	262	291	314
A	26.04	34.01	42.96	54.25	65.25	78.08	91.04	106	118.4	131.4	149.1	161.3	170.9	180.6	197.8	218	238.6	254.1	270	286.3	306.4	334.2	371.3	400
h	100	120	140	160	180	200	220	240	260	280	300	320	340	360	400	450	500	550	600	650	700	800	900	1000
b	100	120	140	160	180	200	220	240	260	280	300	300	300	300	300	300	300	300	300	300	300	300	300	300
d	56	74	92	104	122	134	152	164	177	196	208	225	243	261	298	344	390	438	486	534	582	674	770	868
tw	6	6.5	7	8	8.5	9	9.5	10	10	10.5	11	11.5	12	12.5	13.5	14	14.5	15	15.5	16	17	17.5	18.5	19
tf	10	11	12	13	14	15	16	17	17.5	18	19	20.5	21.5	22.5	24	26	28	29	30	31	32	33	35	36
r	12	12	12	15	15	18	18	21	24	24	27	27	27	27	27	27	27	27	27	27	27	30	30	30
ly	449.5	864.4	1509	2492	3831	5696	8091	11260	14920	19270	25170	30820	36660	43190	57680	79890	107200	136700	171000	210600	256900	359100	494100	644700
Wely	89.91	144.1	215.6	311.5	425.7	569.6	735.5	938.3	1148	1376	1678	1926	2156	2400	2884	3551	4287	4971	5701	6480	7340	8977	10980	12890
Wply	104.2	165.2	245.4	354	481.4	642.5	827	1053	1283	1534	1869	2149	2408	2683	3232	3982	4815	5591	6425	7320	8327	10230	12580	14860
iy	4.16	5.04	5.93	6.78	7.65	8.54	9.43	10.31	11.22	12.11	12.99	13.82	14.65	15.46	17.08	19.14	21.19	23.2	25.17	27.12	28.96	32.78	36.48	40.15
Avz	9.04	10.96	13.08	17.59	20.24	24.83	27.92	33.23	37.59	41.09	47.43	51.77	56.09	60.6	69.98	79.66	89.82	100.1	110.8	122	137.1	161.8	188.8	212.5
lz	167.3	317.5	549.7	889.2	1363	2003	2843	3923	5135	6595	8563	9239	9690	10140	10820	11720	12620	13080	13530	13980	14440	14900	15820	16280
Welz	33.45	52.92	78.52	111.2	151.4	200.3	258.5	326.9	395	471	570.9	615.9	646	676.1	721.3	781.4	841.6	871.8	902	932.3	962.7	993.6	1054	1085
Wplz	51.42	80.97	119.8	170	231	305.8	393.9	498.4	602.2	717.6	870.1	939.1	985.7	1032	1104	1198	1292	1341	1391	1441	1495	1553	1658	1716
iz	2.53	3.06	3.58	4.05	4.57	5.07	5.59	6.08	6.58	7.09	7.58	7.57	7.53	7.49	7.4	7.33	7.27	7.17	7.08	6.99	6.87	6.68	6.53	6.38
Abaque Couissant - Modèle CoursConstructionAcier.fr - Février 2022															 Données : www.ConstruirAcier.fr									
HEA	100	120	140	160	180	200	220	240	260	280	300	320	340	360	400	450	500	550	600	650	700	800	900	1000
masse	16.7	19.9	24.7	30.4	35.5	42.3	50.5	60.3	68.2	76.4	88.3	97.6	105	112	125	140	155	166	178	190	204	224	252	272
A	21.24	25.34	31.42	38.77	45.25	53.83	64.34	76.84	86.82	97.26	112.5	124.4	133.5	142.8	159	178	197.5	211.8	226.5	241.6	260.5	285.8	320.5	346.8
h	96	114	133	152	171	190	210	230	250	270	290	310	330	350	390	440	490	540	590	640	690	790	890	990
b	100	120	140	160	180	200	220	240	260	280	300	300	300	300	300	300	300	300	300	300	300	300	300	300
d	56	74	92	104	122	138	152	164	177	196	208	225	243	261	298	344	390	438	486	534	582	674	770	868
tw	5	5	5.5	6	6	6.5	7	7.5	7.5	8	8.5	9	9.5	10	11	11.5	12	12.5	13	13.5	14.5	15	16	16.5
tf	8	8	8.5	9	9.5	10	11	12	12.5	13	14	15.5	16.5	17.5	19	21	23	24	25	26	27	28	30	31
r	12	12	12	15	15	16	18	21	24	24	27	27	27	27	27	27	27	27	27	27	27	30	30	30
ly	349.2	606.2	1033	1673	2510	3692	5410	7763	10450	13670	18260	22930	27690	33090	45070	63720	86970	111900	141200	175200	215300	303400	422100	553800
Wely	72.76	106.3	155.4	220.1	293.6	388.6	515.2	675.1	836.4	1013	1260	1479	1678	1891	2311	2896	3550	4146	4787	5474	6241	7682	9485	11190
Wply	83.01	119.5	173.5	245.1	324.9	429.5	568.5	744.6	919.8	1112	1383	1628	1850	2088	2562	3216	3949	4622	5350	6136	7032	8699	10810	12820
iy	4.06	4.89	5.73	6.57	7.45	8.28	9.17	10.05	10.97	11.86	12.74	13.58	14.4	15.22	16.84	18.92	20.98	22.99	24.97	26.93	28.75	32.58	36.29	39.96
Avz	7.56	8.46	10.12	13.21	14.47	18.08	20.67	25.18	28.76	31.74	37.28	41.13	44.95	48.96	57.33	65.78	74.72	83.72	93.21	103.2	117	138.8	163.3	184.6
lz	133.8	230.9	389.3	615.6	924.6	1336	1955	2769	3668	4763	6310	6985	7436	7887	8564	9465	10370	10820	11270	11720	12180	12640	13550	14000
Welz	26.76	38.48	55.62	76.95	102.7	133.6	177.7	230.7	282.1	340.2	420.6	465.7	495.7	525.8	570.9	631	691.1	721.3	751.4	781.6	811.9	842.6	903.2	933.6
Wplz	41.14	58.85	84.85	117.6	156.5	203.8	270.6	351.7	430.2	518.1	641.2	709.7	755.9	802.3	872.9	965.5	1059	1107	1156	1205	1257	1312	1414	1470
iz	2.51	3.02	3.52	3.98	4.52	4.98	5.51	6	6.5	7	7.49	7.49	7.46	7.43	7.34	7.29	7.24	7.15	7.05	6.97	6.84	6.65	6.5	6.35

Abaque Coulissant H

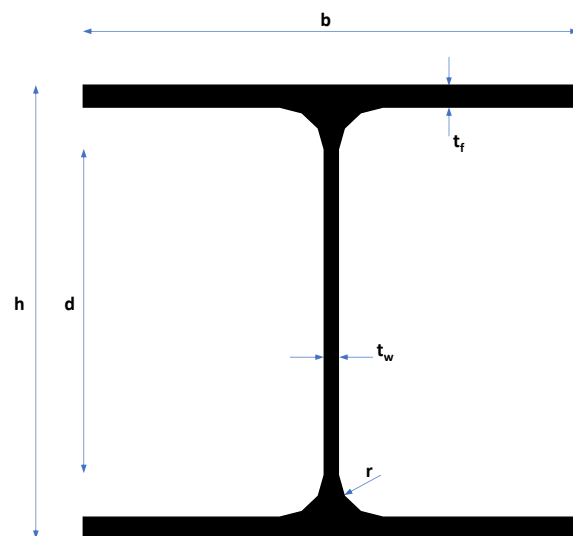


HEB

masse		kg/m
A		cm ²
h		mm
b		mm
d		mm
tw		mm
tf		mm
r		mm

Iy		cm ⁴
Wely		cm ³
Wply		cm ³
iy		cm
Avz		cm ²
Iz		cm ⁴
Welz		cm ³
Wplz		cm ³
iz		cm

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HEA

masse		kg/m
A		cm ²
h		mm
b		mm
d		mm
tw		mm
tf		mm
r		mm

Iy		cm ⁴
Wely		cm ³
Wply		cm ³
iy		cm
Avz		cm ²
Iz		cm ⁴
Welz		cm ³
Wplz		cm ³
iz		cm

UPN	80	100	120	140	160	180	200	220	240	260	280	300	320	350	380	400
masse	8.65	10.6	13.4	16	18.8	22	25.3	29.4	33.2	37.9	41.8	46.2	59.5	60.6	63.1	71.8
A	11	13.5	17	20.4	24	28	32.2	37.4	42.3	48.3	53.3	58.8	75.8	77.3	80.4	91.5
h	80	100	120	140	160	180	200	220	240	260	280	300	320	350	380	400
b	45	45	55	60	65	70	75	80	85	90	95	100	100	100	102	110
d	47	64	82	98	115	133	151	167	184	200	216	232	246	282	313	324
tw	6	6	7	7	7.5	8	8.5	9	9.5	10	10	10	14	14	13.5	14
tf	8	8	9	10	10.5	11	11.5	12.5	13	14	15	16	17.5	16	16	18
r	8	8	9	10	10.5	11	11.5	12.5	13	14	15	16	17.5	16	16	18

ly	106	206	364	605	925	1350	1910	2690	3600	4820	6280	8030	10870	12840	15760	20350
Wely	26.5	41.2	60.7	86.4	116	150	191	245	300	371	448	535	679	734	829	1020
Wply	31.8	49	72.6	103	138	179	228	292	358	442	532	632	826	918	1014	1240
iy	3.1	3.91	4.62	5.45	6.21	6.95	7.7	8.48	9.22	9.99	10.9	11.7	12.1	12.9	14	14.9
Avz	5.1	6.46	8.8	10.41	12.6	15.09	17.71	20.62	23.71	27.12	29.28	31.77	47.11	50.84	53.23	58.55
Iz	19.4	29.3	43.2	62.7	85.3	114	148	197	248	317	399	495	597	570	615	846
Welz	6.36	8.46	11.1	14.8	18.3	22.4	27	33.6	39.6	47.7	57.2	67.8	80.6	75	78.7	102
Wplz	12.1	16.2	21.2	28.3	35.2	42.9	51.8	64.1	75.7	91.6	109	130	152	143	148	190
iz	1.33	1.47	1.59	1.75	1.89	2.02	2.14	2.3	2.42	2.56	2.74	2.9	2.81	2.72	2.77	3.04

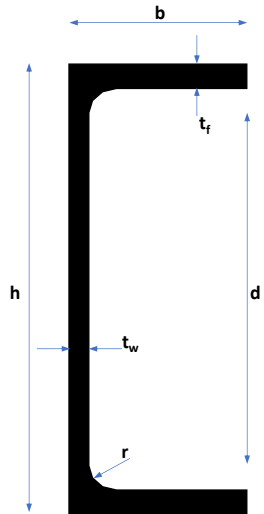
Abaque Couissant - Modèle CoursConstructionAcier.fr - Février 2022



Données : www.ConstruirAcier.fr

IPE	80	100	120	140	160	180	200	220	240	270	300	330	360	400	450	500	550	600
masse	6	8.1	10.4	12.9	15.8	18.8	22.4	26.2	30.7	36.1	42.2	49.1	57.1	66.3	77.6	90.7	106	122
A	7.64	10.3	13.2	16.4	20.1	23.9	28.5	33.4	39.12	45.94	53.81	62.61	72.73	84.46	98.82	115.5	134.4	156
h	80	100	120	140	160	180	200	220	240	270	300	330	360	400	450	500	550	600
b	46	55	64	73	82	91	100	110	120	135	150	160	170	180	190	200	210	220
d	59.6	74.6	93.4	112.2	127.2	146	159	177.6	190.4	219.6	248.6	271	298.6	331	378.8	426	467.6	514
tw	3.8	4.1	4.4	4.7	5	5.3	5.6	5.9	6.2	6.6	7.1	7.5	8	8.6	9.4	10.2	11.1	12
tf	5.2	5.7	6.3	6.9	7.4	8	8.5	9.2	9.8	10.2	10.7	11.5	12.7	13.5	14.6	16	17.2	19
r	5	7	7	7	9	9	12	12	15	15	15	18	18	21	21	21	24	24
ly	80.14	171	317.8	541.2	869.3	1317	1943	2772	3892	5790	8356	11770	16270	23130	33740	48200	67120	92080
Wely	20.03	34.2	52.96	77.32	108.7	146.3	194.3	252	324.3	428.9	557.1	713.1	903.6	1156	1500	1928	2441	3069
Wply	23.22	39.41	60.73	88.34	123.9	166.4	220.6	285.4	366.6	484	628.4	804.3	1019	1307	1702	2194	2787	3512
iy	3.24	4.07	4.9	5.74	6.58	7.42	8.26	9.11	9.97	11.23	12.46	13.71	14.95	16.55	18.48	20.43	22.35	24.3
Avz	3.58	5.08	6.31	7.64	9.66	11.25	14	15.88	19.14	22.14	25.68	30.81	35.14	42.69	50.85	59.87	72.34	83.78
Iz	8.48	15.92	27.67	44.92	68.31	100.9	142.4	204.9	283.6	419.9	603.8	788.1	1043	1318	1676	2142	2668	3387
Welz	3.69	5.79	8.65	12.31	16.66	22.16	28.47	37.25	47.27	62.2	80.5	98.52	122.8	146.4	176.4	214.2	254.1	307.9
Wplz	5.82	9.15	13.58	19.25	26.1	34.6	44.61	58.11	73.92	96.95	125.2	153.7	191.1	229	276.4	335.9	400.5	485.6
iz	1.05	1.24	1.45	1.65	1.84	2.05	2.24	2.48	2.69	3.02	3.35	3.55	3.79	3.95	4.12	4.31	4.45	4.66

Abaque Coulissant I U

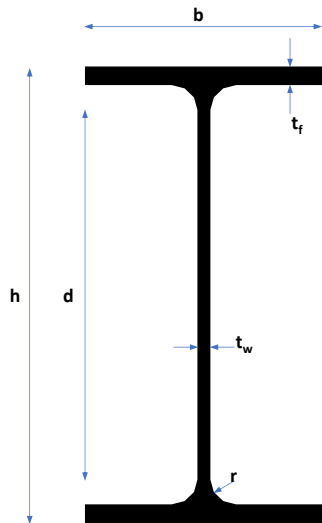


UPN

masse		kg/m
A		cm ²
h		mm
b		mm
d		mm
tw		mm
tf		mm
r		mm

Iy		cm ⁴
Wely		cm ³
Wply		cm ³
iy		cm
Avz		cm ²
Iz		cm ⁴
Welz		cm ³
Wplz		cm ³
iz		cm

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IPE

masse		kg/m
A		cm ²
h		mm
b		mm
d		mm
tw		mm
tf		mm
r		mm

Iy		cm ⁴
Wely		cm ³
Wply		cm ³
iy		cm
Avz		cm ²
Iz		cm ⁴
Welz		cm ³
Wplz		cm ³
iz		cm