

Poutrelles alvéolaires à ouvertures hexagonales

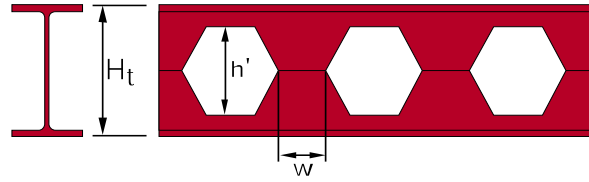
Dimensions: Les dimensions des poutrelles cellulaires sont modulables
 Exécution des soudures suivant dimensionnement
 Etat de surface: conforme à EN 10163-3: 2004, classe C, sous-classe 1

Castellated beams with hexagonal openings

Dimensions: The dimensions of the castellated beams are variable
 Execution of the welds according to design
 Surface condition: according to EN 10163-3: 2004, class C, subclass 1

Lochstegträger mit sechseckigen Öffnungen

Abmessungen: Die Abmessungen der Lochstegträger sind variabel
 Schweißnahtausführung nach Berechnung
 Oberflächenbeschaffenheit: Gemäß EN 10163-3: 2004, Klasse C, Untergruppe 1



Profil de base Base profile Basisprofil	Poutres ajourées avec ouvertures hexagonales / Castellated beams with hexagonal openings / Wabenträger mit sechseckigen Öffnungen				
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$				
	G (kg/m)	H _t (mm)	h' (mm)	w (mm)	A _L (m ² /m)

IPE

IPE 200	22,4	300,0	200,0	100,0	0,768
IPE 220	26,2	330,0	220,0	110,0	0,848
IPE 240	30,7	360,0	240,0	120,0	0,922
IPE 270	36,1	405,0	270,0	135,0	1,041
IPE 300	42,2	450,0	300,0	150,0	1,160
IPE 330	49,1	495,0	330,0	165,0	1,254
IPE 360	57,1	540,0	360,0	180,0	1,353
IPE 400	66,3	600,0	400,0	200,0	1,467
IPE 450	77,6	675,0	450,0	225,0	1,605
IPE 500	90,7	750,0	500,0	250,0	1,744
IPE 550	106,0	825,0	550,0	275,0	1,877
IPE 600	122,0	900,0	600,0	300,0	2,015

HE

HE 260 A	68,2	375,0	250,0	125,0	1,484
HE 260 B	93,0	390,0	260,0	130,0	1,499
HE 260 M	172,0	435,0	290,0	145,0	1,575
HE 280 A	76,4	405,0	270,0	135,0	1,603
HE 280 B	103,0	420,0	280,0	140,0	1,618
HE 280 M	189,0	465,0	310,0	155,0	1,694
HE 300 A	88,3	435,0	290,0	145,0	1,717
HE 300 B	117,0	450,0	300,0	150,0	1,732
HE 300 M	238,0	510,0	340,0	170,0	1,832
HE 320 A	97,6	465,0	310,0	155,0	1,756
HE 320 B	127,0	480,0	320,0	160,0	1,771
HE 320 M	245,0	539,0	359,0	180,0	1,866
HE 340 A	105,0	495,0	330,0	165,0	1,795
HE 340 B	134,0	510,0	340,0	170,0	1,810
HE 340 M	248,0	566,0	377,0	189,0	1,902
HE 360 A	112,0	525,0	350,0	175,0	1,834
HE 360 B	142,0	540,0	360,0	180,0	1,849
HE 360 M	250,0	593,0	395,0	198,0	1,934
HE 400 A	125,0	585,0	390,0	195,0	1,912
HE 400 B	155,0	600,0	400,0	200,0	1,927
HE 400 M	256,0	648,0	432,0	216,0	2,004
HE 450 A	140,0	660,0	440,0	220,0	2,011
HE 450 B	171,0	675,0	450,0	225,0	2,026
HE 450 M	263,0	717,0	478,0	239,0	2,096
HE 500 A	155,0	735,0	490,0	245,0	2,110
HE 500 B	187,0	750,0	500,0	250,0	2,125
HE 500 M	270,0	786,0	524,0	262,0	2,184
HE 550 A	166,0	810,0	540,0	270,0	2,209
HE 550 B	199,0	825,0	550,0	275,0	2,224
HE 550 M	278,0	858,0	572,0	286,0	2,280
HE 600 A	178,0	885,0	590,0	295,0	2,308
HE 600 B	212,0	900,0	600,0	300,0	2,323
HE 600 M	285,0	930,0	620,0	310,0	2,372
HE 650 A	190,0	960,0	640,0	320,0	2,407
HE 650 B	225,0	975,0	650,0	325,0	2,422
HE 650 M	293,0	1002,0	668,0	334,0	2,468
HE 700 A	204,0	1035,0	690,0	345,0	2,505
HE 700 B	241,0	1050,0	700,0	350,0	2,520
HE 700 M	301,0	1074,0	716,0	358,0	2,560
HE 800 A	224,0	1185,0	790,0	395,0	2,698
HE 800 B	262,0	1200,0	800,0	400,0	2,713
HE 800 M	317,0	1221,0	814,0	407,0	2,746
HE 900 A	252,0	1335,0	890,0	445,0	2,896
HE 900 B	291,0	1350,0	900,0	450,0	2,911
HE 900 M	333,0	1365,0	910,0	455,0	2,934

Poutrelles alvéolaires à ouvertures octogonales

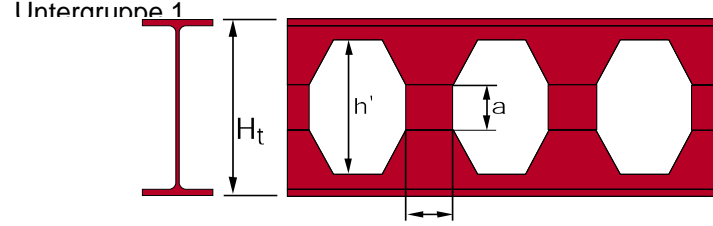
Dimensions: Les dimensions des poutrelles cellulaires sont modulables
 Exécution des soudures suivant dimensionnement
 Etat de surface: conforme à EN 10163-3: 2004, classe C, sous-classe 1

Castellated beams with octagonal openings

Dimensions: The dimensions of the castellated beams are variable
 Execution of the welds according to design
 Surface condition: according to EN 10163-3: 2004, class C, subclass 1

Lochstegträger mit achteckigen Öffnungen

Abmessungen: Die Abmessungen der Lochstegträger sind variabel
 Schweißnahtausführung nach Berechnung
 Oberflächenbeschaffenheit: Gemäß EN 10163-3: 2004, Klasse C, Untergruppe 1



Profil de base Base profile Basisprofil	Poutres ajourées avec ouvertures octogonales / Castellated beams with octagonal openings / Wabenträger mit achteckigen Öffnungen				
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$				
	a (mm)	G (kg/m)	H _t (mm)	h' (mm)	w (mm)

100,0	23,9	400,0	300,0	100,0	0,801
110,0	27,9	440,0	330,0	110,0	0,885
120,0	32,6	480,0	360,0	120,0	0,962
135,0	38,4	540,0	405,0	135,0	1,086
150,0	45,0	600,0	450,0	150,0	1,210
165,0	52,3	660,0	495,0	165,0	1,309
180,0	60,9	720,0	540,0	180,0	1,413
200,0	70,8	800,0	600,0	200,0	1,534
225,0	83,1	900,0	675,0	225,0	1,680
250,0	97,4	1000,0	750,0	250,0	1,827
275,0	114,0	1100,0	825,0	275,0	1,969
300,0	131,0	1200,0	900,0	300,0	2,115

125,0	71,0	500,0	375,0	125,0	1,526
130,0	96,4	520,0	390,0	130,0	1,542
145,0	179,0	580,0	435,0	145,0	1,623
135,0	79,2	540,0	405,0	135,0	1,648
140,0	107,0	560,0	420,0	140,0	1,665
155,0	197,0	620,0	465,0	155,0	1,746
145,0	91,5	580,0	435,0	145,0	1,765
150,0	121,3	600,0	450,0	150,0	1,782
170,0	247,0	680,0	510,0	170,0	1,889
155,0	101,0	620,0	465,0	155,0	1,808
160,0	132,0	640,0	480,0	160,0	1,824
179,5	255,0	718,0	539,0	180,0	1,926
165,0	109,0	660,0	495,0	165,0	1,850
170,0	139,0	680,0	510,0	170,0	1,867
188,5	258,0	754,0	566,0	189,0	1,965
175,0	117,0	700,0	525,0	175,0	1,892
180,0	148,0	720,0	540,0	180,0	1,909
197,5	261,0	790,0	593,0	198,0	2,000
195,0	131,0	780,0	585,0	195,0	1,977
200,0	162,0	800,0	600,0	200,0	1,994
216,0	268,0	864,0	648,0	216,0	2,076
220,0	147,0	880,0	660,0	220,0	2,084
225,0	179,0	900,0	675,0	225,0	2,101
239,0	276,0	956,0	717,0	239,0	2,176
245,0	163,0	980,0	735,0	245,0	2,192
250,0	196,0	1000,0	750,0	250,0	2,208
262,0	284,0	1048,0	786,0	262,0	2,271
270,0	175,0	1080,0	810,0	270,0	2,299
275,0	210,0	1100,0	825,0	275,0	2,316
286,0	294,0	1144,0	858,0	286,0	2,375
295,0	188,0	1180,0	885,0	295,0	2,406
300,0	224,0	1200,0	900,0	300,0	2,423
310,0	302,0	1240,0	930,0	310,0	2,475
320,0	201,0	1280,0	960,0	320,0	2,514
325,0	239,0	1300,0	975,0	325,0	2,530
334,0	311,0	1336,0	1002,0	334,0	2,579
345,0	217,0	1380,0	1035,0	345,0	2,620
350,0	257,0	1400,0	1050,0	350,0	2,637
358,0	321,0	1432,0	1074,0	358,0	2,679
395,0	240,0	1580,0	1185,0	395,0	2,830
400,0	280,0	1600,0	1200,0	400,0	2,846
407,0	339,0	1628,0	1221,0	407,0	2,882
445,0	271,0	1780,0	1335,0	445,0	3,044
450,0	313,0	1800,0	1350,0	450,0	3,061
455,0	358,0	1820,0	1365,0	455,0	3,086

ACB - Poutrelles alvéolaires à ouvertures circulaires

Dimensions: Les dimensions des poutrelles cellulaires sont modulables. Une optimisation est possible à l'aide du logiciel ACB.

Exécution des soudures suivant dimensionnement

Etat de surface: conforme à EN 10163-3: 2004, classe C, sous-classe 1

ACB - Castellated beams with circular openings

Dimensions: The dimensions of the castellated beams are variable. They can be optimised with the ACB software.

Execution of the welds according to design

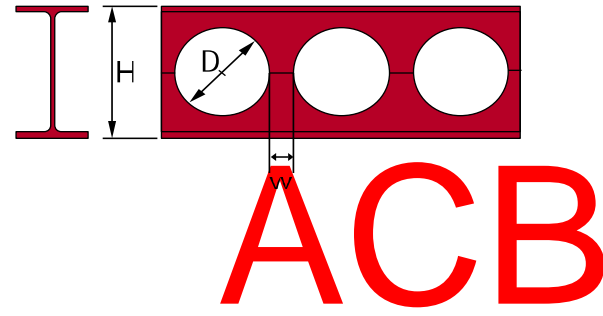
Surface condition: according to EN 10163-3: 2004, class C, subclass 1

ACB - Lochstegträger mit runden Öffnungen

Abmessungen: Die Abmessungen der Lochstegträger sind variabel. Sie können mittels ACB Software optimiert werden.

Schweißnahtausführung nach Berechnung

Oberflächenbeschaffenheit: Gemäß EN 10163-3: 2004, Klasse C, Untergruppe 1



Profil de base Base profile Basisprofil	poutre de toiture / Roof beam / Dachträger			
	(D ≈ 1,05 x h, w = 0,25 x D)*			
	G (kg/m)	H (mm)	D (mm)	w (mm)

Profil de base Base profile Basisprofil	poutre de plancher / Floor beam / Deckenträger			
	(D ≈ 1,05 x h, w = 0,5 x D)*			
	G (kg/m)	H (mm)	D (mm)	w (mm)

IPE

IPE 200	20,7	293.4	210	52.5
IPE 220	24,3	323.1	230	57.5
IPE 240	28,5	352.7	250	62.5
IPE 270	33,5	397.3	280	70
IPE 300	39,2	444.2	315	78.75
IPE 330	45,7	491.2	350	87.5
IPE 360	53,1	535.7	380	95
IPE 400	61,7	595.1	420	105
IPE 450	71,9	671.7	475	118.75
IPE 500	84	745.9	525	131.25
IPE 550	97,5	822.5	580	145
IPE 600	113,1	896.7	630	157.5
HE 260 A	65,3	374.9	275	68.75
HE 260 B	89,2	384.9	275	68.75
HE 260 M	165,6	414.9	275	68.75
HE 280 A	73,2	404.5	295	73.75
HE 280 B	98,9	414.5	295	73.75
HE 280 M	181,1	444.5	295	73.75
HE 300 A	84,8	434.2	315	78.75
HE 300 B	112,4	444.2	315	78.75
HE 320 A	93,6	463.9	335	83.75
HE 320 B	121,5	473.9	335	83.75
HE 340 A	100,3	496	360	90
HE 340 B	128,5	506	360	90
HE 360 A	107,1	525.7	380	95
HE 360 B	135,6	535.7	380	95
HE 300 M	229,1	484.2	315	78.75
HE 320 M	235,6	512.9	335	83.75
HE 400 A	118,9	585.1	420	105
HE 340 M	238,0	543	360	90
HE 400 B	148,0	595.1	420	105
HE 360 M	239,9	570.7	380	95
HE 450 A	132,8	661.7	475	118.75
HE 400 M	244,4	627.1	420	105
HE 450 B	162,7	671.7	475	118.75
HE 500 A	147,2	735.9	525	131.25
HE 450 M	250,7	699.7	475	118.75
HE 500 B	177,8	745.9	525	131.25
HE 500 M	256,4	769.9	525	131.25
HE 550 A	157,2	812.5	580	145
HE 550 B	188,6	822.5	580	145
HE 550 M	263	844.5	580	145
HE 600 A	167,7	886.7	630	157.5
HE 600 B	199,9	896.7	630	157.5
HE 600 M	269,1	916.7	630	157.5
HE 650 A	178,3	965.8	690	172.5
HE 650 B	211,2	975.8	690	172.5
HE 650 M	275,6	993.8	690	172.5
HE 700 A	191,5	1037.6	735	183.75
HE 700 B	225,3	1047.6	735	183.75
HE 700 M	281,8	1063.6	735	183.75
HE 800 A	209,1	1188.4	840	210
HE 800 B	244,6	1198.4	840	210
HE 800 M	296	1212.4	840	210
HE 900 A	233,4	1341.6	950	237.5
HE 900 B	270,4	1351.6	950	237.5
HE 900 M	308,6	1361.6	950	237.5
HE 1000 A	251,6	1490.1	1050	262.5
HE 1000 B	290,2	1500.1	1050	262.5
HE 1000 M	322,4	1508.1	1050	262.5

21,1	279.9	210	110
24,8	308.6	230	120
29,2	337.3	250	130
34,2	383.3	285	145
40,1	427.8	315	155
46,8	469.3	345	175
54,3	515.2	380	190
63,1	572.6	420	210
73,7	647.1	475	235
86,1	717.3	525	265
100,1	791.9	580	290
116,2	862	630	320
66,2	354.6	265	135
90,3	370.5	275	135
167,2	412	305	155
74,2	383.3	285	145
100,1	399.2	295	145
182,9	440.6	325	165
85,9	412	305	155
113,7	427.8	315	155
94,9	440.6	325	165
123,1	456.5	335	165
101,8	469.3	345	175
130,2	485.2	355	175
108,7	499.3	370	190
137,5	515.2	380	190
231,1	485.2	355	175
237,8	512.8	375	185
120,8	556.7	410	210
240,5	539.5	395	195
150,2	572.6	420	210
242,5	566.2	415	205
135,2	629.9	460	230
247,4	620.5	455	225
165,3	647.1	475	235
149,8	704.5	515	255
254,3	685.2	500	250
180,9	717.3	525	265
260,6	751.4	550	280
160,3	774.6	565	285
192,2	791.9	580	290
267,7	822.5	600	300
171,1	849.2	620	310
203,9	862	630	320
274,3	890.7	650	330
182,3	919.3	670	340
215,8	936.6	685	345
281,4	961.8	700	350
196,0	993.9	725	365
230,4	1009.7	735	365
288,0	1030	750	380
214,5	1138.6	830	420
250,6	1154.5	840	420
303,0	1175.7	855	425
239,8	1286.3	935	465
277,7	1299.2	945	475
316,7	1315	955	475
258,8	1435.4	1050	525
298,5	1445.4	1050	525
331,5	1453.4	1050	525

ACB – Poutrelles alvéolaires à ouvertures sinusoidales "ANGELINA"

Dimensions: Les dimensions des poutrelles cellulaires sont modulables.

Exécution des soudures suivant dimensionnement.

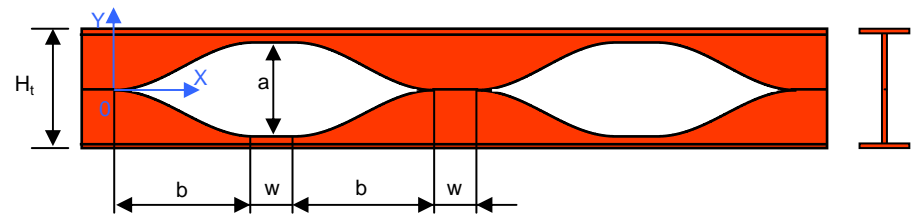
Etat de surface: conforme à EN 10163-3: 2004, classe C, sous-classe 1

ACB – Castellated beams with sinusoidal openings "ANGELINA"

Dimensions: The dimensions of the castellated beams are variable.

Execution of the welds according to design.

Surface condition: according to EN 10163-3: 2004, class C, subclass 1



ACB – Lochstegträger mit sinusförmigen Öffnungen "ANGELINA"

Abmessungen: Die Abmessungen der Lochstegträger sind variabel.

Schweißnahtausführung nach Berechnung.

Oberflächenbeschaffenheit: Gemäß EN 10163-3: 2004, Klasse C, Untergruppe 1

Profil de base Base profile Basisprofil	poutre de plancher / Floor beam / Deckenträger					
	$y = \left(0,5 \cdot \frac{a}{2} \right) \cdot \sin \left[\pi \left(\frac{x}{b} + \frac{3}{2} \right) \right] + \frac{a}{4}$					
	G (kg/m)	H _t (mm)	a (mm)	b (mm)	w (mm)	A _L (m ² /m)
IPE						
IPE 200	22.4	319.0	238.0	433.6	250	0.768
IPE 220	26.2	357.6	275.2	486.1	250	0.848
IPE 240	30.7	390.4	300.8	530.6	250	0.922
IPE 270	36.1	449.6	359.2	611.1	250	1.041
IPE 300	42.2	508.6	417.2	691.3	250	1.160
IPE 330	49.1	561.0	462.0	762.5	250	1.254
IPE 360	57.1	618.6	517.2	840.8	250	1.353
IPE 400	66.3	691.0	582.0	939.2	250	1.467
IPE 450	77.6	788.8	677.6	1072.2	250	1.605
IPE 500	90.7	886.0	772.0	1204.3	250	1.744
IPE 550	90.7	886.0	772.0	1204.3	250	1.744
IPE 600	122.0	1074.0	948.0	1459.8	250	2.015
HE						
HE 260 A	68.2	387.0	274.0	526.0	250	1.484
HE 260 B	93.0	397.0	274.0	539.6	250	1.499
HE 260 M	172.0	427.0	274.0	580.4	250	1.575
HE 280 A	76.4	426.0	312.0	579.0	250	1.603
HE 280 B	103.0	436.0	312.0	592.6	250	1.618
HE 280 M	189.0	466.0	312.0	633.4	250	1.694
HE 300 A	88.3	458.0	336.0	622.5	250	1.717
HE 300 B	117.0	468.0	336.0	636.1	250	1.732
HE 320 A	97.6	495.0	370.0	672.8	250	1.756
HE 320 B	127.0	505.0	370.0	686.4	250	1.771
HE 340 A	105.0	533.0	406.0	724.5	250	1.795
HE 340 B	134.0	543.0	406.0	738.1	250	1.810
HE 300 M	238.0	508.0	336.0	690.5	250	1.832
HE 360 A	112.0	571.0	442.0	776.1	250	1.834
HE 360 B	142.0	581.0	442.0	789.7	250	1.849
HE 320 M	245.0	544.0	370.0	739.4	250	1.866
HE 340 M	248.0	580.0	406.0	788.3	250	1.902
HE 400 A	125.0	648.0	516.0	880.8	250	1.912
HE 400 B	155.0	658.0	516.0	894.4	250	1.927
HE 360 M	250.0	616.0	442.0	837.3	250	1.934
HE 400 M	256.0	690.0	516.0	937.9	250	2.004
HE 450 A	140.0	744.0	608.0	1011.3	250	2.011
HE 450 B	171.0	754.0	608.0	1024.9	250	2.026
HE 450 M	263.0	782.0	608.0	1062.9	250	2.096
HE 500 A	155.0	840.0	700.0	1141.7	250	2.110
HE 500 B	187.0	850.0	700.0	1155.3	250	2.125
HE 500 M	270.0	874.0	700.0	1188.0	250	2.184
HE 550 A	166.0	938.0	796.0	1275.0	250	2.209
HE 550 B	199.0	948.0	796.0	1288.5	250	2.224
HE 550 M	278.0	970.0	796.0	1318.4	250	2.280
HE 600 A	178.0	1036.0	892.0	1408.2	250	2.308
HE 600 B	212.0	1046.0	892.0	1421.7	250	2.323
HE 600 M	285.0	1066.0	892.0	1448.9	250	2.372
HE 650 A	190.0	1134.0	988.0	1541.4	250	2.407
HE 650 B	225.0	1144.0	988.0	1555.0	250	2.422
HE 650 M	293.0	1162.0	988.0	1579.4	250	2.468
HE 700 A	204.0	1232.0	1084.0	1674.6	250	2.505
HE 700 B	241.0	1242.0	1084.0	1688.2	250	2.520
HE 700 M	301.0	1258.0	1084.0	1709.9	250	2.560
HE 800 A	224.0	1424.0	1268.0	1935.5	250	2.698
HE 800 B	262.0	1434.0	1268.0	1949.1	250	2.713
HE 800 M	317.0	1448.0	1268.0	1968.2	250	2.746
HE 900 A	252.0	1620.0	1460.0	2201.9	250	2.896
HE 900 B	291.0	1630.0	1460.0	2215.5	250	2.911
HE 900 M	333.0	1640.0	1460.0	2229.1	250	2.934
HE 1000 A	272.0	1818.0	1656.0	2471.1	250	3.095
HE 1000 B	314.0	1828.0	1656.0	2484.7	250	3.110
HE 1000 M	349.0	1836.0	1656.0	2495.5	250	3.130