

## ACB – Vigas alveolares con alvéolos circulares

Dimensiones: Las dimensiones de las vigas alveolares son variables. Pueden optimizarse con ayuda del software ACB.

Ejecución de las soldaduras según diseño

Estado de la superficie: conforme a norma EN 10163-3: 2004, clase C, subclase 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 - Travi alveolari con aperture circolari

Dimensioni: le dimensioni delle Travi alveolari sono variabili. Possono essere ottimizzate con il software ACB.

La esecuzione delle saldature dipende dal disegno

Condizioni di superficie: secondo EN 10163-3: 2004, classe C, sottoclasse 1

IPE					
Perfil básico Base profile Profilo di base	Viga de techo / Roof beam / trave per copertura				
	(D ≈ 1,05 x h, w = 0,25 x D)*				
	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

IPE A 200	17,1	290,4	210	52,5	0,699
IPE 200	20,7	293,4	210	52,5	0,706
IPE O 200	23,2	295,4	210	52,5	0,718
IPE A 220	20,6	320,1	230	57,5	0,774
IPE 220	24,3	323,1	230	57,5	0,780
IPE O 220	27,2	325,1	230	57,5	0,793
IPE A 240	24,3	349,7	250	62,5	0,843
IPE 240	28,5	352,7	250	62,5	0,849
IPE O 240	31,9	354,7	250	62,5	0,862
IPE A 270	28,6	394,3	280	70	0,954
IPE 270	33,5	397,3	280	70	0,961
IPE O 270	39,4	401,3	280	70	0,974
IPE A 300	34	441,2	315	78,75	1,065
IPE 300	39,2	444,2	315	78,75	1,071
IPE O 300	45,9	448,2	315	78,75	1,088
IPE A 330	40	488,2	350	87,5	1,150
IPE 330	45,7	491,2	350	87,5	1,156
IPE O 330	53,1	495,2	350	87,5	1,173
IPE A 360	46,9	533,3	380	95	1,242
IPE 360	53,1	535,7	380	95	1,248
IPE O 360	61,5	539,7	380	95	1,265

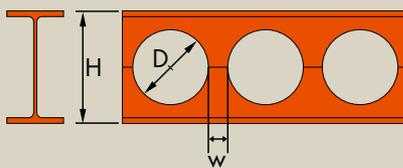
IPE					
Perfil básico Base profile Profilo di base	Jácena / Floor beam / trave per solaio				
	(D ≈ 1,05 x h, w = 0,5 x D)*				
	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

IPE A 200	17,4	275,6	205	105	0,719
IPE 200	21,1	279,9	210	110	0,724
IPE O 200	23,7	283,6	210	105	0,736
IPE A 220	21,0	305,6	230	120	0,794
IPE 220	24,8	308,6	230	120	0,800
IPE O 220	27,8	312,2	230	115	0,812
IPE A 240	24,8	334,3	250	130	0,866
IPE 240	29,2	337,3	250	130	0,872
IPE O 240	32,6	340,9	250	125	0,884
IPE A 270	29,2	378,9	280	140	0,980
IPE 270	34,2	383,3	285	145	0,986
IPE O 270	40,2	385,9	280	140	0,998
IPE A 300	34,7	420,3	310	160	1,095
IPE 300	40,1	427,8	315	155	1,100
IPE O 300	46,9	431,1	315	157,5	1,116
IPE A 330	40,9	466,3	345	175	1,184
IPE 330	46,8	469,3	345	175	1,190
IPE O 330	54,3	476,2	350	175	1,205
IPE A 360	48,0	511,4	375	185	1,279
IPE 360	54,3	515,2	380	190	1,283
IPE O 360	62,9	519,2	380	190	1,299

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.



# ACB

Páginas de notaciones 199-203 / Notations pages 199-203 / Pagine di annotazioni 199-203

Perfil básico Base profile Profilo di base	IPE				
	Viga de techo / Roof beam / trave per coperture				
	(D ≈ 1,05 x h, w = 0,25 x D)*				
G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m	

IPE A 400	53,6	592,1	420	105	1,345
IPE 400	61,7	595,1	420	105	1,352
IPE O 400	70,4	599,1	420	105	1,368
IPE A 450	62,6	668,7	475	118,75	1,469
IPE 450	71,9	671,7	475	118,75	1,476
IPE O 450	85,7	677,7	475	118,75	1,497
IPE A 500	73,8	742,9	525	131,25	1,596
IPE 500	84	745,9	525	131,25	1,603
IPE O 500	99,4	751,9	525	131,25	1,623
IPE A 550	85,6	819,5	580	145	1,715
IPE 550	97,5	822,5	580	145	1,722
IPE O 550	113,4	828,5	580	145	1,743
IPE A 600	99,9	893,7	630	157,5	1,841
IPE 600	113,1	896,7	630	157,5	1,848
IPE O 600	142,8	906,7	630	157,5	1,886
IPE 750 x 147	134,5	1127,2	790	197,5	2,301
IPE 750 x 173	159,9	1136,2	790	197,5	2,328
IPE 750 x 196	181,9	1144,2	790	197,5	2,348

Perfil básico Base profile Profilo di base	IPE				
	Jácena / Floor beam / trave per solaio				
	(D ≈ 1,05 x h, w = 0,5 x D)*				
G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m	

IPE A 400	54,8	568,2	415	205	1,386
IPE 400	63,1	572,6	420	210	1,391
IPE O 400	72,1	576,6	420	210	1,407
IPE A 450	64,1	639,7	470	240	1,517
IPE 450	73,7	647,1	475	235	1,521
IPE O 450	87,8	652,4	475	237,5	1,542
IPE A 500	75,6	712,9	520	260	1,647
IPE 500	86,1	717,3	525	265	1,653
IPE O 500	102,0	724	525	262,5	1,673
IPE A 550	87,7	787,4	575	285	1,772
IPE 550	100,1	791,9	580	290	1,778
IPE O 550	116,4	797,9	580	290	1,798
IPE A 600	102,5	857,6	625	315	1,904
IPE 600	116,2	862	630	320	1,909
IPE O 600	146,6	873,5	630	315	1,945
IPE 750 x 147	138,8	1084,3	790	400	2,379
IPE 750 x 173	164,6	1093,3	790	400	2,405
IPE 750 x 196	187,0	1102,8	790	395	2,425

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base.

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.

## ACB – Vigas alveolares con alvéolos circulares (continúa)

Dimensiones: Las dimensiones de las vigas alveolares son variables. Pueden optimizarse con ayuda del software ACB.

Ejecución de las soldaduras según diseño

Estado de la superficie: conforme a norma EN 10163-3: 2004, clase C, subclase 1

## ACB – Castellated beams with circular openings (continued)

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 - Travi alveolari con aperture circolari (continua)

Dimensioni: le dimensioni delle Travi alveolari sono variabili. Possono essere ottimizzate con il software ACB.

La esecuzione delle saldature dipende dal disegno

Condizioni di superficie: secondo EN 10163-3: 2004, classe C, sottoclasse 1

HE					
Perfil básico Base profile Profilo di base	Viga de techo / Roof beam / trave per copertura				
	(D ≈ 1,05 x h, w = 0,25 x D)*				
	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 260 AA	51,7	368,9	275	68,75	1,395
HE 260 A	65,3	374,9	275	68,75	1,408
HE 260 B	89,2	384,9	275	68,75	1,429
HE 260 M	165,6	414,9	275	68,75	1,525
HE 280 AA	58,5	398,5	295	73,75	1,509
HE 280 A	73,2	404,5	295	73,75	1,522
HE 280 B	98,9	414,5	295	73,75	1,543
HE 280 M	181,1	444,5	295	73,75	1,639
HE 300 AA	66,6	427,2	315	78,75	1,617
HE 300 A	84,8	434,2	315	78,75	1,631
HE 300 B	112,4	444,2	315	78,75	1,653
HE 300 M	229,1	484,2	315	78,75	1,778
HE 320 AA	70,7	454,9	335	83,75	1,647
HE 320 A	93,6	463,9	335	83,75	1,666
HE 320 B	121,5	473,9	335	83,75	1,687
HE 320 M	235,6	512,9	335	83,75	1,806
HE 340 AA	74,9	486	360	90	1,678
HE 340 A	100,3	496	360	90	1,699
HE 340 B	128,5	506	360	90	1,720
HE 340 M	238,0	543	360	90	1,835
HE 360 AA	79,2	514,7	380	95	1,711
HE 360 A	107,1	525,7	380	95	1,734
HE 360 B	135,6	535,7	380	95	1,755
HE 360 M	239,9	570,7	380	95	1,861
HE 400 AA	87,3	573,1	420	105	1,778
HE 400 A	118,9	585,1	420	105	1,803
HE 400 B	148,0	595,1	420	105	1,824
HE 400 M	244,4	627,1	420	105	1,920

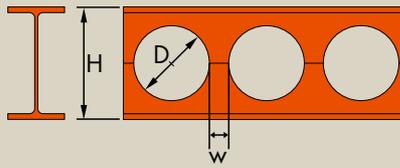
HE					
Perfil básico Base profile Profilo di base	Jácena / Floor beam / trave per solaio				
	(D ≈ 1,05 x h, w = 0,5 x D)*				
	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 260 AA	52,5	347,2	260	130	1,422
HE 260 A	66,2	354,6	265	135	1,433
HE 260 B	90,3	370,5	275	135	1,452
HE 260 M	167,2	412	305	155	1,539
HE 280 AA	59,3	375,9	280	140	1,539
HE 280 A	74,2	383,3	285	145	1,550
HE 280 B	100,1	399,2	295	145	1,568
HE 280 M	182,9	440,6	325	165	1,656
HE 300 AA	67,6	405,7	305	152,5	1,647
HE 300 A	85,9	412	305	155	1,661
HE 300 B	113,7	427,8	315	155	1,679
HE 300 M	231,1	485,2	355	175	1,793
HE 320 AA	71,8	432,4	325	162,5	1,680
HE 320 A	94,9	440,6	325	165	1,698
HE 320 B	123,1	456,5	335	165	1,716
HE 320 M	237,8	512,8	375	185	1,824
HE 340 AA	76,1	466,6	360	180	1,711
HE 340 A	101,8	469,3	345	175	1,734
HE 340 B	130,2	485,2	355	175	1,753
HE 340 M	240,5	539,5	395	195	1,856
HE 360 AA	80,6	494,2	380	190	1,746
HE 360 A	108,7	499,3	370	190	1,770
HE 360 B	137,5	515,2	380	190	1,788
HE 360 M	242,5	566,2	415	205	1,885
HE 400 AA	88,9	550,6	420	210	1,817
HE 400 A	120,8	556,7	410	210	1,843
HE 400 B	150,2	572,6	420	210	1,861
HE 400 M	247,4	620,5	455	225	1,947

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.



# ACB

Páginas de notaciones 199-203 / Notations pages 199-203 / Pagine di annotazioni 199-203

Perfil básico Base profile Profilo di base	HE					HE				
	Viga de techo / Roof beam / trave per coperture					Jácena / Floor beam / trave per solaio				
	(D ≈ 1,05 x h, w = 0,25 x D)*					(D ≈ 1,05 x h, w = 0,5 x D)*				
	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m
HE 450 AA	93,7	646,7	475	118,75	1,856	95,6	621,4	475	237,5	1,901
HE 450 A	132,8	661,7	475	118,75	1,887	135,2	629,9	460	230	1,934
HE 450 B	162,7	671,7	475	118,75	1,908	165,3	647,1	475	235	1,951
HE 450 M	250,7	699,7	475	118,75	1,996	254,3	685,2	500	250	2,031
HE 500 AA	100,5	717,9	525	131,25	1,936	102,8	690	525	262,5	1,986
HE 500 A	147,2	735,9	525	131,25	1,973	149,8	704,5	515	255	2,024
HE 500 B	177,8	745,9	525	131,25	1,994	180,9	717,3	525	265	2,042
HE 500 M	256,4	769,9	525	131,25	2,070	260,6	751,4	550	280	2,111
HE 550 AA	111,7	794,5	580	145	2,021	114,4	763,9	580	290	2,076
HE 550 A	157,2	812,5	580	145	2,058	160,3	774,6	565	285	2,115
HE 550 B	188,6	822,5	580	145	2,079	192,2	791,9	580	290	2,133
HE 550 M	263	844,5	580	145	2,150	267,7	822,5	600	300	2,197
HE 600 AA	119,4	867,7	630	157,5	2,105	122,5	834,5	630	315	2,165
HE 600 A	167,7	886,7	630	157,5	2,144	171,1	849,2	620	310	2,205
HE 600 B	199,9	896,7	630	157,5	2,165	203,9	862	630	320	2,224
HE 600 M	269,1	916,7	630	157,5	2,228	274,3	890,7	650	330	2,281
HE 600 x 337	317	928,7	630	157,5	2,274	323,6	895,5	630	315	2,328
HE 600 x 399	375,8	944,7	630	157,5	2,328	383,5	911,5	630	315	2,381
HE 650 AA	127,4	945,8	690	172,5	2,186	130,9	909,5	690	345	2,253
HE 650 A	178,3	965,8	690	172,5	2,227	182,3	919,3	670	340	2,296
HE 650 B	211,2	975,8	690	172,5	2,248	215,8	936,6	685	345	2,314
HE 650 M	275,6	993,8	690	172,5	2,307	281,4	961,8	700	350	2,367
HE 650 x 343	322,3	1005,8	690	172,5	2,349	329,4	969,5	690	345	2,410
HE 650 x 407	382,3	1021,8	690	172,5	2,403	390,7	985,5	690	345	2,462
HE 700 AA	138,2	1017,6	735	183,75	2,274	142,1	979	735	367,5	2,344
HE 700 A	191,5	1037,6	735	183,75	2,314	196,0	993,9	725	365	2,387
HE 700 B	225,3	1047,6	735	183,75	2,336	230,4	1009,7	735	365	2,405
HE 700 M	281,8	1063,6	735	183,75	2,386	288,0	1030	750	380	2,451
HE 700 x 352	329,7	1075,6	735	183,75	2,428	337,3	1037	735	367,5	2,494
HE 700 x 418	391,1	1091,6	735	183,75	2,482	400,0	1053	735	367,5	2,546

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.

## ACB – Vigas alveolares con alvéolos circulares (continúa)

Dimensiones: Las dimensiones de las vigas alveolares son variables. Pueden optimizarse con ayuda del software ACB.

Ejecución de las soldaduras según diseño

Estado de la superficie: conforme a norma EN 10163-3: 2004, clase C, subclase 1

## ACB – Castellated beams with circular openings (continued)

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 - Travi alveolari con aperture circolari (continua)

Dimensioni: le dimensioni delle Travi alveolari sono variabili. Possono essere ottimizzate con il software ACB.

La esecuzione delle saldature dipende dal disegno

Condizioni di superficie: secondo EN 10163-3: 2004, classe C, sottoclasse 1

HE					
Perfil básico Base profile Profilo di base	Viga de techo / Roof beam / trave per copertura				
	(D ≈ 1,05 x h, w = 0,25 x D)*				
	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 800 AA	157,3	1168,4	840	210	2,439
HE 800 A	209,1	1188,4	840	210	2,479
HE 800 B	244,6	1198,4	840	210	2,501
HE 800 M	296	1212,4	840	210	2,543
HE 800 x 373	347,2	1224,4	840	210	2,589
HE 800 x 444	413,8	1240,4	840	210	2,643
HE 900 AA	180,9	1321,6	950	237,5	2,608
HE 900 A	233,4	1341,6	950	237,5	2,648
HE 900 B	270,4	1351,6	950	237,5	2,670
HE 900 M	308,6	1361,6	950	237,5	2,699
HE 900 x 391	362,2	1373,6	950	237,5	2,745
HE 900 x 466	431,8	1389,6	950	237,5	2,800
HE 1000 AA	201,5	1470,1	1050	262,5	2,780
HE 1000 A	251,6	1490,1	1050	262,5	2,820
HE 1000 B	290,2	1500,1	1050	262,5	2,842
HE 1000 M	322,4	1508,1	1050	262,5	2,867
HE 1000 x 393	362,1	1516,1	1050	262,5	2,888
HE 1000 x 415	377,8	1520,1	1050	262,5	2,901
HE 1000 x 494	450,7	1536,1	1050	262,5	2,956
HE 1000 x 584	534,7	1556,1	1050	262,5	3,018

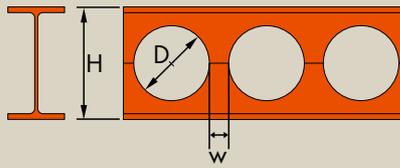
HE					
Perfil básico Base profile Profilo di base	Jácena / Floor beam / trave per solaio				
	(D ≈ 1,05 x h, w = 0,5 x D)*				
	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 800 AA	162,1	1124,5	840	420	2,521
HE 800 A	214,5	1138,6	830	420	2,563
HE 800 B	250,6	1154,5	840	420	2,581
HE 800 M	303,0	1175,7	855	425	2,618
HE 800 x 373	355,8	1180,5	840	420	2,666
HE 800 x 444	424,2	1196,5	840	420	2,718
HE 900 AA	186,8	1272,1	950	475	2,701
HE 900 A	239,8	1286,3	935	465	2,743
HE 900 B	277,7	1299,2	945	475	2,762
HE 900 M	316,7	1315	955	475	2,788
HE 900 x 391	372,0	1324,1	950	475	2,834
HE 900 x 466	443,6	1340,1	950	475	2,886
HE 1000 AA	208,4	1415,4	1050	525	2,883
HE 1000 A	258,8	1435,4	1050	525	2,923
HE 1000 B	298,5	1445,4	1050	525	2,943
HE 1000 M	331,5	1453,4	1050	525	2,967
HE 1000 x 393	372,7	1461,4	1050	525	2,988
HE 1000 x 415	388,7	1465,4	1050	525	3,000
HE 1000 x 494	463,7	1481,4	1050	525	3,052
HE 1000 x 584	549,9	1501,4	1050	525	3,113

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.



# ACB

Páginas de notaciones 199-203 / Notations pages 199-203 / Pagine di annotazioni 199-203

HL					
Perfil básico Base profile Profilo di base	Viga de techo / Roof beam / trave per coperture				
	(D ≈ 1,05 x h, w = 0,25 x D)*				
	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HL 920 x 344	320,1	1402,4	999	249,75	3,201
HL 920 x 368	341,2	1406,4	999	249,75	3,214
HL 920 x 390	362,6	1411,4	999	249,75	3,228
HL 920 x 420	392,3	1418,4	999	249,75	3,251
HL 920 x 449	419,8	1423,4	999	249,75	3,266
HL 920 x 491	458,3	1432,4	999	249,75	3,280
HL 920 x 537	501,8	1440,4	999	249,75	3,310
HL 920 x 588	550,4	1451,4	999	249,75	3,341
HL 920 x 656	614,4	1462,4	999	249,75	3,381
HL 920 x 725	678,9	1474,4	999	249,75	3,419
HL 920 x 787	737,7	1486,4	999	249,75	3,456
HL 920 x 970	911,0	1518,4	999	249,75	3,561
HL 1000 AA	275,1	1482,1	1050	262,5	3,204
HL 1000 A	300,3	1490,1	1050	262,5	3,220
HL 1000 B	346,7	1500,1	1050	262,5	3,242
HL 1000 M	385,2	1508,1	1050	262,5	3,267
HL 1000 x 443	412,9	1512,1	1050	262,5	3,276
HL 1000 x 483	451,0	1520,1	1050	262,5	3,301
HL 1000 x 539	503,8	1530,1	1050	262,5	3,334
HL 1000 x 554	517,1	1532,1	1050	262,5	3,343
HL 1000 x 591	552,0	1540,1	1050	262,5	3,364
HL 1000 x 642	599,2	1548,1	1050	262,5	3,393
HL 1000 x 748	699,6	1568,1	1050	262,5	3,456
HL 1000 x 883	826,3	1592,1	1050	262,5	3,535
HL 1100 A	317,9	1640,9	1155	288,75	3,408
HL 1100 B	362,7	1650,9	1155	288,75	3,429
HL 1100 M	402,5	1658,9	1155	288,75	3,454
HL 1100 R	463,0	1668,9	1155	288,75	3,488

HL					
Perfil básico Base profile Profilo di base	Jácena / Floor beam / trave per solaio				
	(D ≈ 1,05 x h, w = 0,5 x D)*				
	G kg/m	H mm	D mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HL 920 x 344	328,1	1350,3	999	499,5	3,297
HL 920 x 368	349,6	1354,3	999	499,5	3,309
HL 920 x 390	371,4	1359,3	999	499,5	3,323
HL 920 x 420	401,6	1366,3	999	499,5	3,345
HL 920 x 449	429,7	1371,3	999	499,5	3,360
HL 920 x 491	469,0	1380,3	999	499,5	3,374
HL 920 x 537	513,5	1388,3	999	499,5	3,402
HL 920 x 588	563,2	1399,3	999	499,5	3,432
HL 920 x 656	628,7	1410,3	999	499,5	3,471
HL 920 x 725	694,7	1422,3	999	499,5	3,507
HL 920 x 787	754,6	1434,3	999	499,5	3,543
HL 920 x 970	931,6	1466,3	999	499,5	3,644
HL 1000 AA	282,3	1427,4	1050	525	3,307
HL 1000 A	307,4	1435,4	1050	525	3,323
HL 1000 B	355,0	1445,4	1050	525	3,343
HL 1000 M	394,3	1453,4	1050	525	3,367
HL 1000 x 443	423,1	1457,4	1050	525	3,375
HL 1000 x 483	462,1	1465,4	1050	525	3,400
HL 1000 x 539	516,2	1475,4	1050	525	3,432
HL 1000 x 554	529,9	1477,4	1050	525	3,440
HL 1000 x 591	565,5	1485,4	1050	525	3,460
HL 1000 x 642	614,0	1493,4	1050	525	3,488
HL 1000 x 748	716,5	1513,4	1050	525	3,549
HL 1000 x 883	846,1	1537,4	1050	525	3,625
HL 1100 A	326,5	1580,9	1155	577,5	3,521
HL 1100 B	372,3	1590,9	1155	577,5	3,541
HL 1100 M	413,0	1598,9	1155	577,5	3,566
HL 1100 R	475,4	1608,9	1155	577,5	3,598

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.

## Vigas alveolares con alvéolos hexagonales

Dimensiones: Las dimensiones de las vigas alveolares son variables  
Ejecución de las soldaduras según diseño  
Estado de la superficie: conforme a norma EN 10163-3: 2004, clase C, subclase 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

## Travi alveolari con aperture esagonali

Dimensioni: le dimensioni delle Travi alveolari sono variabili.  
La esecuzione delle saldature dipende dal disegno  
Condizioni di superficie: secondo EN 10163-3: 2004, classe C, sottoclasse 1

HE					
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos hexagonales Castellated beams with hexagonal openings Travi alveolari con aperture esagonali				
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$				
	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 260 AA	54,1	366,0	244,0	122,0	1,474
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 AA	61,2	396,0	264,0	132,0	1,593
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 AA	69,8	425,0	283,0	142,0	1,705
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 AA	74,2	452,0	301,0	151,0	1,740
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 AA	78,9	480,0	320,0	160,0	1,777
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 AA	83,7	509,0	339,0	170,0	1,814
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 AA	92,4	567,0	378,0	189,0	1,891
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

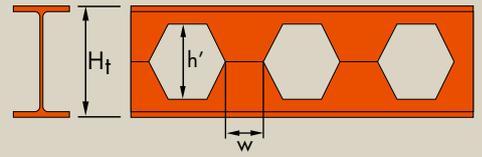
HE					
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos hexagonales Castellated beams with hexagonal openings Travi alveolari con aperture esagonali				
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$				
	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 450 AA	99,7	638,0	425,0	213,0	1,984
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 AA	107,0	708,0	472,0	236,0	2,077
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 AA	120,0	783,0	522,0	261,0	2,175
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 AA	129,0	856,5	571,0	285,5	2,272
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 600 x 337	337,0	948,0	632,0	316,0	2,407
HE 600 x 399	399,0	972,0	648,0	324,0	2,450
HE 650 AA	138,0	930,0	620,0	310,0	2,369
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 650 x 343	343,0	1020,0	680,0	340,0	2,500
HE 650 x 407	407,0	1044,0	696,0	348,0	2,543
HE 700 AA	150,0	1005,0	670,0	335,0	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 700 x 352	352,0	1092,0	728,0	364,0	2,592
HE 700 x 418	418,0	1116,0	744,0	372,0	2,635

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base.

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.



Páginas de notaciones 199-203 / Notations pages 199-203 / Pagine di annotazioni 199-203

HE					
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos hexagonales Castellated beams with hexagonal openings Travi alveolari con aperture esagonali				
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$				
	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 800 AA	172,0	1155,0	770,0	385,0	2,660
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 800 x 373	373,0	1239,0	826,0	413,0	2,782
HE 800 x 444	444,0	1263,0	842,0	421,0	2,824
HE 900 AA	198,0	1305,0	870,0	435,0	2,858
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
HE 900 x 391	391,0	1383,0	922,0	461,0	2,970
HE 900 x 466	466,0	1407,0	938,0	469,0	3,012
HE 1000 AA	222,0	1455,0	970,0	485,0	3,056
HE 1000 A	272,0	1485,0	990,0	495,0	3,095
HE 1000 B	314,0	1500,0	1000,0	500,0	3,110
HE 1000 M	349,0	1512,0	1008,0	504,0	3,130
HE 1000 x 393	393,0	1524,0	1016,0	508,0	3,144
HE 1000 x 409	409,0	1530,0	1020,0	510,0	3,162
HE 1000 x 488	488,0	1554,0	1036,0	518,0	3,204
HE 1000 x 579	579,0	1584,0	1056,0	528,0	3,254

HL					
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos hexagonales Castellated beams with hexagonal openings Travi alveolari con aperture esagonali				
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$				
	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HL 920 x 344	345,0	1390,5	927,0	463,5	3,450
HL 920 x 368	368,0	1396,5	931,0	465,5	3,460
HL 920 x 390	390,0	1404,0	936,0	468,0	3,480
HL 920 x 420	420,0	1414,5	943,0	471,5	3,500
HL 920 x 449	449,0	1422,0	948,0	474,0	3,510
HL 920 x 491	491,0	1435,5	957,0	478,5	3,520
HL 920 x 537	537,0	1447,5	965,0	482,5	3,540
HL 920 x 588	588,0	1464,0	976,0	488,0	3,570
HL 920 x 656	656,0	1480,5	987,0	493,5	3,600
HL 920 x 725	725,0	1498,5	999,0	499,5	3,630
HL 920 x 787	787,0	1516,5	1011,0	505,5	3,660
HL 920 x 970	970,0	1564,5	1043,0	521,5	3,740
HL 1000 AA	296,0	1473,0	982,0	491,0	3,479
HL 1000 A	321,0	1485,0	990,0	495,0	3,495
HL 1000 B	371,0	1500,0	1000,0	500,0	3,510
HL 1000 M	412,0	1512,0	1008,0	504,0	3,530
HL 1000 x 443	443,0	1518,0	1012,0	506,0	3,530
HL 1000 x 483	483,0	1530,0	1020,0	510,0	3,550
HL 1000 x 539	539,0	1545,0	1030,0	515,0	3,580
HL 1000 x 554	554,0	1548,0	1032,0	516,0	3,590
HL 1000 x 591	591,0	1560,0	1040,0	520,0	3,600
HL 1000 x 642	642,0	1572,0	1048,0	524,0	3,620
HL 1000 x 748	748,0	1602,0	1068,0	534,0	3,670
HL 1000 x 883	883,0	1638,0	1092,0	546,0	3,740
HL 1100 A	343,0	1635,0	1090,0	545,0	3,710
HL 1100 B	390,0	1650,0	1100,0	550,0	3,726
HL 1100 M	433,0	1662,0	1108,0	554,0	3,746
HL 1100 R	499,0	1677,0	1118,0	559,0	3,770

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base.

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.

## Vigas alveolares con alvéolos hexagonales (continúa)

Dimensiones: Las dimensiones de las vigas alveolares son variables  
Ejecución de las soldaduras según diseño  
Estado de la superficie: conforme a norma EN 10163-3: 2004, clase C, subclase 1

## Castellated beams with hexagonal openings (continued)

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

## Travi alveolari con aperture esagonali (continua)

Dimensioni: le dimensioni delle Travi alveolari sono variabili.  
La esecuzione delle saldature dipende dal disegno  
Condizioni di superficie: secondo EN 10163-3: 2004, classe C, sottoclasse 1

Perfil básico Base profile Profilo di base	IPE				
	Vigas alveolares con alvéolos hexagonales Castellated beams with hexagonal openings Travi alveolari con aperture esagonali				
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$				
	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

IPE A 200	18,4	295,5	197,0	98,5	0,764
IPE 200	22,4	300,0	200,0	100,0	0,768
IPE O 200	25,1	303,0	202,0	101,0	0,779
IPE A 220	22,2	325,5	217,0	108,5	0,843
IPE 220	26,2	330,0	220,0	110,0	0,848
IPE O 220	29,4	333,0	222,0	111,0	0,858
IPE A 240	26,2	355,5	237,0	118,5	0,918
IPE 240	30,7	360,0	240,0	120,0	0,922
IPE O 240	34,3	363,0	242,0	121,0	0,932
IPE A 270	30,7	400,5	267,0	133,5	1,037
IPE 270	36,1	405,0	270,0	135,0	1,041
IPE O 270	42,3	411,0	274,0	137,0	1,051
IPE A 300	36,5	445,5	297,0	148,5	1,156
IPE 300	42,2	450,0	300,0	150,0	1,160
IPE O 300	49,3	456,0	304,0	152,0	1,174
IPE A 330	43,0	490,5	327,0	163,5	1,250
IPE 330	49,1	495,0	330,0	165,0	1,254
IPE O 330	57,0	501,0	334,0	167,0	1,268
IPE A 360	50,2	536,4	358,0	178,8	1,351
IPE 360	57,1	540,0	360,0	180,0	1,353
IPE O 360	66,0	546,0	364,0	182,0	1,367

Perfil básico Base profile Profilo di base	IPE				
	Vigas alveolares con alvéolos hexagonales Castellated beams with hexagonal openings Travi alveolari con aperture esagonali				
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$				
	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

IPE A 400	57,4	595,5	397,0	198,5	1,464
IPE 400	66,3	600,0	400,0	200,0	1,467
IPE O 400	75,7	606,0	404,0	202,0	1,481
IPE A 450	67,2	670,5	447,0	223,5	1,603
IPE 450	77,6	675,0	450,0	225,0	1,605
IPE O 450	92,4	684,0	456,0	228,0	1,622
IPE A 500	79,4	745,5	497,0	248,5	1,741
IPE 500	90,7	750,0	500,0	250,0	1,744
IPE O 500	107,0	759,0	506,0	253,0	1,760
IPE A 550	92,1	820,5	547,0	273,5	1,875
IPE 550	106,0	825,0	550,0	275,0	1,877
IPE O 550	123,0	834,0	556,0	278,0	1,893
IPE A 600	108,0	895,5	597,0	298,5	2,013
IPE 600	122,0	900,0	600,0	300,0	2,015
IPE O 600	154,0	915,0	610,0	305,0	2,045
IPE 750 x 147	147,0	1129,5	753,0	376,5	2,510
IPE 750 x 173	173,0	1143,0	762,0	381,0	2,534
IPE 750 x 196	196,0	1155,0	770,0	385,0	2,552

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base.

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.

# Vigas alveolares con alvéolos octogonales

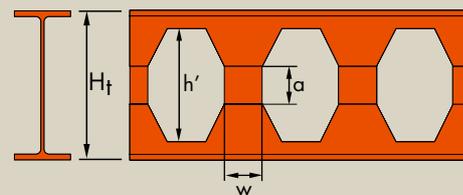
Dimensiones: Las dimensiones de las vigas alveolares son variables  
Ejecución de las soldaduras según diseño  
Estado de la superficie: conforme a norma EN 10163-3: 2004, clase C, subclase 1

# 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

# Travi alveolari con aperture ottagonali

Dimensioni: le dimensioni delle Travi alveolari sono variabili.  
La esecuzione delle saldature dipende dal disegno  
Condizioni di superficie: secondo EN 10163-3: 2004, classe C, sottoclasse 1



Páginas de notaciones 199-203 / Notations pages 199-203 / Pagine di annotazioni 199-203

HE						
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos octogonales Castellated beams with octagonal openings Travi alveolari con aperture ottagonali					
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$					
	a mm	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 260 AA	122,0	56,2	488,0	366,0	122,0	1,515
HE 260 A	125,0	71,0	500,0	375,0	125,0	1,526
HE 260 B	130,0	96,4	520,0	390,0	130,0	1,542
HE 260 M	145,0	179,0	580,0	435,0	145,0	1,623
HE 280 AA	132,0	63,6	528,0	396,0	132,0	1,637
HE 280 A	135,0	79,2	540,0	405,0	135,0	1,648
HE 280 B	140,0	107,0	560,0	420,0	140,0	1,665
HE 280 M	155,0	197,0	620,0	465,0	155,0	1,746
HE 300 AA	141,5	72,6	566,0	425,0	142,0	1,752
HE 300 A	145,0	91,5	580,0	435,0	145,0	1,765
HE 300 B	150,0	121,3	600,0	450,0	150,0	1,782
HE 300 M	170,0	247,0	680,0	510,0	170,0	1,889
HE 320 AA	150,5	77,4	602,0	452,0	151,0	1,790
HE 320 A	155,0	101,0	620,0	465,0	155,0	1,808
HE 320 B	160,0	132,0	640,0	480,0	160,0	1,824
HE 320 M	179,5	255,0	718,0	539,0	180,0	1,926
HE 340 AA	160,0	82,5	640,0	480,0	160,0	1,830
HE 340 A	165,0	109,0	660,0	495,0	165,0	1,850
HE 340 B	170,0	139,0	680,0	510,0	170,0	1,867
HE 340 M	188,5	258,0	754,0	566,0	189,0	1,965
HE 360 AA	169,5	87,7	678,0	509,0	170,0	1,871
HE 360 A	175,0	117,0	700,0	525,0	175,0	1,892
HE 360 B	180,0	148,0	720,0	540,0	180,0	1,909
HE 360 M	197,5	261,0	790,0	593,0	198,0	2,000
HE 400 AA	189,0	97,1	756,0	567,0	189,0	1,954
HE 400 A	195,0	131,0	780,0	585,0	195,0	1,977
HE 400 B	200,0	162,0	800,0	600,0	200,0	1,994
HE 400 M	216,0	268,0	864,0	648,0	216,0	2,076

HE						
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos octogonales Castellated beams with octagonal openings Travi alveolari con aperture ottagonali					
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$					
	a mm	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 450 AA	212,5	105,0	850,0	638,0	213,0	2,055
HE 450 A	220,0	147,0	880,0	660,0	220,0	2,084
HE 450 B	225,0	179,0	900,0	675,0	225,0	2,101
HE 450 M	239,0	276,0	956,0	717,0	239,0	2,176
HE 500 AA	236,0	113,0	944,0	708,0	236,0	2,156
HE 500 A	245,0	163,0	980,0	735,0	245,0	2,192
HE 500 B	250,0	196,0	1000,0	750,0	250,0	2,208
HE 500 M	262,0	284,0	1048,0	786,0	262,0	2,271
HE 550 AA	261,0	128,0	1044,0	783,0	261,0	2,262
HE 550 A	270,0	175,0	1080,0	810,0	270,0	2,299
HE 550 B	275,0	210,0	1100,0	825,0	275,0	2,316
HE 550 M	286,0	294,0	1144,0	858,0	286,0	2,375
HE 600 AA	285,5	138,0	1142,0	856,5	285,5	2,367
HE 600 A	295,0	188,0	1180,0	885,0	295,0	2,406
HE 600 B	300,0	224,0	1200,0	900,0	300,0	2,423
HE 600 M	310,0	302,0	1240,0	930,0	310,0	2,475
HE 600 x 337	316,0	358,0	1264,0	948,0	316,0	2,512
HE 600 x 399	324,0	424,0	1296,0	972,0	324,0	2,558
HE 650 AA	310,0	148,0	1240,0	930,0	310,0	2,472
HE 650 A	320,0	201,0	1280,0	960,0	320,0	2,514
HE 650 B	325,0	239,0	1300,0	975,0	325,0	2,530
HE 650 M	334,0	311,0	1336,0	1002,0	334,0	2,579
HE 650 x 343	340,0	365,0	1360,0	1020,0	340,0	2,613
HE 650 x 407	348,0	434,0	1392,0	1044,0	348,0	2,659
HE 700 AA	335,0	161,0	1340,0	1005,0	335,0	2,580
HE 700 A	345,0	217,0	1380,0	1035,0	345,0	2,620
HE 700 B	350,0	257,0	1400,0	1050,0	350,0	2,637
HE 700 M	358,0	321,0	1432,0	1074,0	358,0	2,679
HE 700 x 352	364,0	376,0	1456,0	1092,0	364,0	2,713
HE 700 x 418	372,0	447,0	1488,0	1116,0	372,0	2,759

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base.

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie..  
h = altezza del profilo di base.

## Vigas alveolares con alvéolos octogonales (continúa)

Dimensiones: Las dimensiones de las vigas alveolares son variables  
Ejecución de las soldaduras según diseño  
Estado de la superficie: conforme a norma EN 10163-3: 2004, clase C, subclase 1

## Castellated beams with octagonal openings (continued)

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

## Travi alveolari con aperture ottagonali (continua)

Dimensioni: le dimensioni delle Travi alveolari sono variabili.  
La esecuzione delle saldature dipende dal disegno  
Condizioni di superficie: secondo EN 10163-3: 2004, classe C, sottoclasse 1

HE						
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos octogonales Castellated beams with octagonal openings Travi alveolari con aperture ottagonali					
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$					
	a mm	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HE 800 AA	385,0	186,0	1540,0	1155,0	385,0	2,788
HE 800 A	395,0	240,0	1580,0	1185,0	395,0	2,830
HE 800 B	400,0	280,0	1600,0	1200,0	400,0	2,846
HE 800 M	407,0	339,0	1628,0	1221,0	407,0	2,882
HE 800 x 373	413,0	400,0	1652,0	1239,0	413,0	2,920
HE 800 x 444	421,0	477,0	1684,0	1263,0	421,0	2,964
HE 900 AA	435,0	215,0	1740,0	1305,0	435,0	3,003
HE 900 A	445,0	271,0	1780,0	1335,0	445,0	3,044
HE 900 B	450,0	313,0	1800,0	1350,0	450,0	3,061
HE 900 M	455,0	358,0	1820,0	1365,0	455,0	3,086
HE 900 x 391	461,0	421,0	1844,0	1383,0	461,0	3,124
HE 900 x 466	469,0	503,0	1876,0	1407,0	469,0	3,168
HE 1000 AA	485,0	242,0	1940,0	1455,0	485,0	3,218
HE 1000 A	495,0	293,0	1980,0	1485,0	495,0	3,260
HE 1000 B	500,0	339,0	2000,0	1500,0	500,0	3,277
HE 1000 M	504,0	377,0	2016,0	1512,0	504,0	3,298
HE 1000 x 393	508,0	425,0	2032,0	1524,0	508,0	3,313
HE 1000 x 409	510,0	442,0	2040,0	1530,0	510,0	3,332
HE 1000 x 488	518,0	529,0	2072,0	1554,0	518,0	3,377
HE 1000 x 579	528,0	627,0	2112,0	1584,0	528,0	3,430

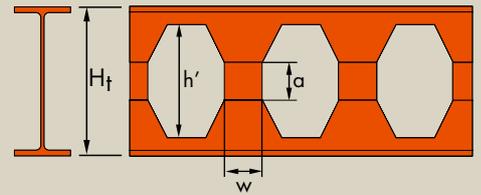
HL						
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos octogonales Castellated beams with octagonal openings Travi alveolari con aperture ottagonali					
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$					
	a mm	G kg/m	H <sub>t</sub> mm	h' mm	w mm	A <sub>L</sub> m <sup>2</sup> /m

HL 920 x 344	463,5	368,0	1854,0	1390,5	463,5	3,605
HL 920 x 368	465,5	393,0	1862,0	1396,5	465,5	3,615
HL 920 x 390	468,0	416,0	1872,0	1404,0	468,0	3,636
HL 920 x 420	471,5	448,0	1886,0	1414,5	471,5	3,657
HL 920 x 449	474,0	479,0	1896,0	1422,0	474,0	3,668
HL 920 x 491	478,5	523,0	1914,0	1435,5	478,5	3,680
HL 920 x 537	482,5	573,0	1930,0	1447,5	482,5	3,701
HL 920 x 588	488,0	628,0	1952,0	1464,0	488,0	3,733
HL 920 x 656	493,5	701,0	1974,0	1480,5	493,5	3,765
HL 920 x 725	499,5	775,0	1998,0	1498,5	499,5	3,797
HL 920 x 787	505,5	841,0	2022,0	1516,5	505,5	3,829
HL 920 x 970	521,5	1038,0	2086,0	1564,5	521,5	3,914
HL 1000 AA	491,0	317,0	1964,0	1473,0	491,0	3,643
HL 1000 A	495,0	342,0	1980,0	1485,0	495,0	3,660
HL 1000 B	500,0	396,0	2000,0	1500,0	500,0	3,677
HL 1000 M	504,0	440,0	2016,0	1512,0	504,0	3,698
HL 1000 x 443	506,0	474,0	2024,0	1518,0	506,0	3,699
HL 1000 x 483	510,0	517,0	2040,0	1530,0	510,0	3,720
HL 1000 x 539	515,0	577,0	2060,0	1545,0	515,0	3,752
HL 1000 x 554	516,0	594,0	2064,0	1548,0	516,0	3,762
HL 1000 x 591	520,0	633,0	2080,0	1560,0	520,0	3,773
HL 1000 x 642	524,0	689,0	2096,0	1572,0	524,0	3,795
HL 1000 x 748	534,0	802,0	2136,0	1602,0	534,0	3,848
HL 1000 x 883	546,0	948,0	2184,0	1638,0	546,0	3,922
HL 1100 A	545,0	369,0	2180,0	1635,0	545,0	3,892
HL 1100 B	550,0	419,0	2200,0	1650,0	550,0	3,909
HL 1100 M	554,0	465,0	2216,0	1662,0	554,0	3,931
HL 1100 R	559,0	537,0	2236,0	1677,0	559,0	3,956

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base.

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie.  
h = altezza del profilo di base.



Páginas de notaciones 199-203 / Notations pages 199-203 / Pagine di annotazioni 199-203

IPE						
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos octogonales Castellated beams with octagonal openings Travi alveolari con aperture ottagonali					
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$					
	a mm	G kg/m	$H_t$ mm	$h'$ mm	w mm	$A_L$ m <sup>2</sup> /m
IPE A 200	98,5	19,6	394,0	295,5	98,5	0,797
IPE 200	100,0	23,9	400,0	300,0	100,0	0,801
IPE O 200	101,0	26,7	404,0	303,0	101,0	0,813
IPE A 220	108,5	23,6	434,0	325,5	108,5	0,879
IPE 220	110,0	27,9	440,0	330,0	110,0	0,885
IPE O 220	111,0	31,3	444,0	333,0	111,0	0,895
IPE A 240	118,5	27,8	474,0	355,5	118,5	0,958
IPE 240	120,0	32,6	480,0	360,0	120,0	0,962
IPE O 240	121,0	36,5	484,0	363,0	121,0	0,972
IPE A 270	133,5	32,6	534,0	400,5	133,5	1,082
IPE 270	135,0	38,4	540,0	405,0	135,0	1,086
IPE O 270	137,0	45,0	548,0	411,0	137,0	1,097
IPE A 300	148,5	38,9	594,0	445,5	148,5	1,206
IPE 300	150,0	45,0	600,0	450,0	150,0	1,210
IPE O 300	152,0	52,5	608,0	456,0	152,0	1,225
IPE A 330	163,5	45,8	654,0	490,5	163,5	1,305
IPE 330	165,0	52,3	660,0	495,0	165,0	1,309
IPE O 330	167,0	60,7	668,0	501,0	167,0	1,324
IPE A 360	178,8	53,3	715,0	536,4	178,8	1,411
IPE 360	180,0	60,9	720,0	540,0	180,0	1,413
IPE O 360	182,0	70,4	728,0	546,0	182,0	1,428

IPE						
Perfil básico Base profile Profilo di base	Vigas alveolares con alvéolos octogonales Castellated beams with octagonal openings Travi alveolari con aperture ottagonali					
	$(H_t = 1,5 \times h; w = 0,5 \times h)^*$					
	a mm	G kg/m	$H_t$ mm	$h'$ mm	w mm	$A_L$ m <sup>2</sup> /m
IPE A 400	198,5	61,0	794,0	595,5	198,5	1,530
IPE 400	200,0	70,8	800,0	600,0	200,0	1,534
IPE O 400	202,0	80,8	808,0	606,0	202,0	1,548
IPE A 450	223,5	71,6	894,0	670,5	223,5	1,678
IPE 450	225,0	83,1	900,0	675,0	225,0	1,680
IPE O 450	228,0	99,0	912,0	684,0	228,0	1,698
IPE A 500	248,5	84,9	994,0	745,5	248,5	1,824
IPE 500	250,0	97,4	1000,0	750,0	250,0	1,827
IPE O 500	253,0	115,0	1012,0	759,0	253,0	1,844
IPE A 550	273,5	98,5	1094,0	820,5	273,5	1,966
IPE 550	275,0	114,0	1100,0	825,0	275,0	1,969
IPE O 550	278,0	132,0	1112,0	834,0	278,0	1,986
IPE A 600	298,5	116,0	1194,0	895,5	298,5	2,113
IPE 600	300,0	131,0	1200,0	900,0	300,0	2,115
IPE O 600	305,0	166,0	1220,0	915,0	305,0	2,147
IPE 750 x 147	376,5	160,0	1506,0	1129,5	376,5	2,636
IPE 750 x 173	381,0	187,0	1524,0	1143,0	381,0	2,661
IPE 750 x 196	385,0	212,0	1540,0	1155,0	385,0	2,680

\* Ejemplo: posibilidad de otras geometrías.  
h = altura del perfil de base.

\* Example: other geometries are possible.  
h = height of base profile.

\* Esempio: sono possibili altre geometrie..  
h = altezza del profilo di base.