



Estrumetal
Estructuras metálicas

PERFILES ARMADOS ESTRUMETAL PAE

PERFILES
PAE

EQUIVALENTES
A

PERFILES
W

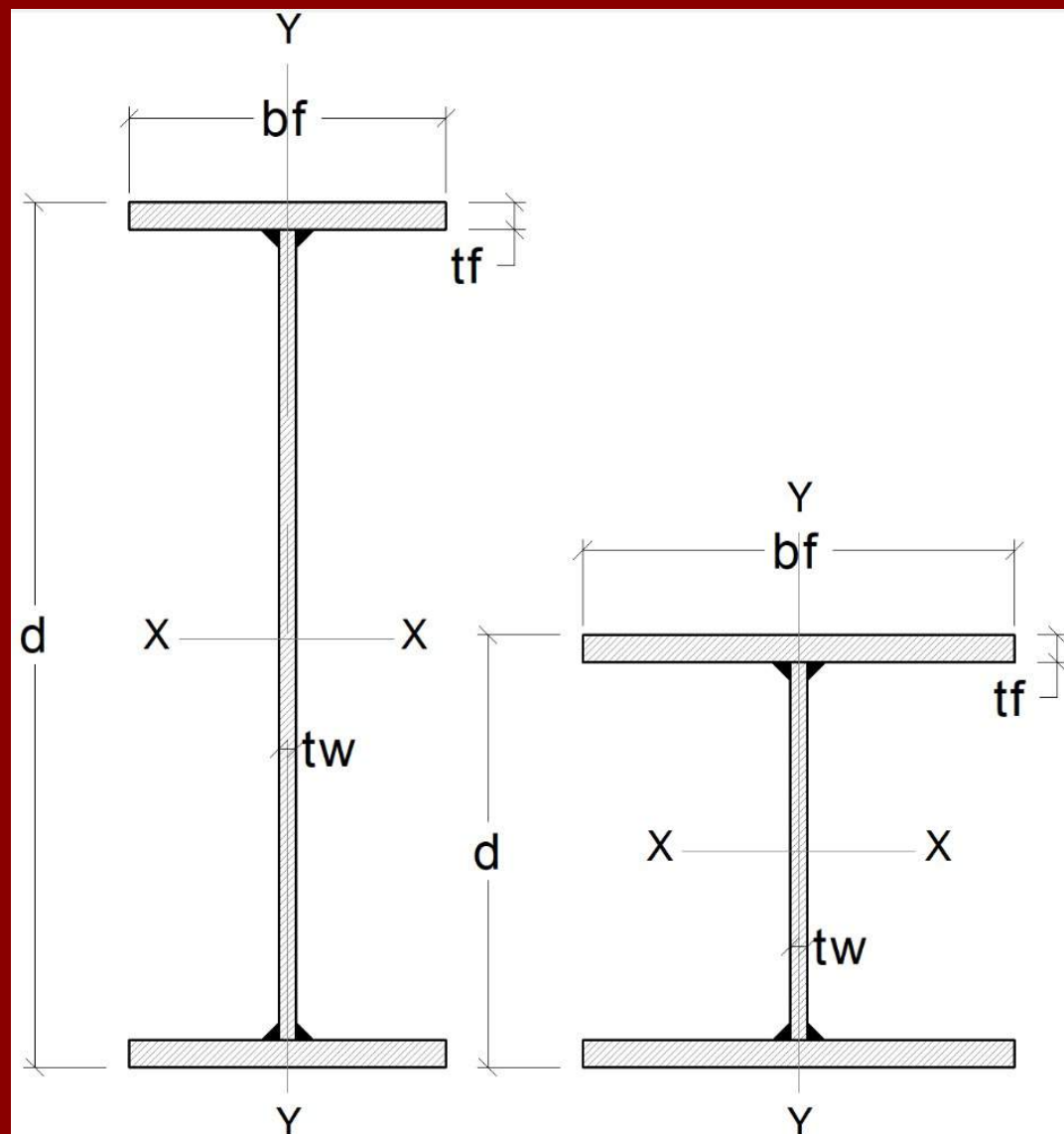




TABLA DE PERFILES ARMADOS ESTRUMETAL

PAE CON PROPIEDADES MECANICAS EQUIVALENTES A LOS PERFILES TIPO W - NORMA AISC - Acero ASTM A572 Gr.50

PERFIL	d (mm)	tw (mm)	bf (mm)	tf (mm)	Peso (Kg/m)	As (cm ²)	Ix-x (cm ⁴)	Iy-y (cm ⁴)	rx (cm)	ry (cm)	Sx (cm ³)	Sy (cm ³)	Zx (cm ³)	Zy (cm ³)
W8X28	205	7	166	12	41.8	53.2	4,079.1	903.2	8.8	4.1	398.2	108.6	437.9	165.6
PAE223X6X170X12	223	6	170	12	41.4	52.7	4,940.1	983.0	9.7	4.3	443.1	115.6	489.8	175.3
W8X31	203	7	203	11	46.2	58.9	4,578.5	1,544.2	8.8	5.1	450.6	151.9	490.8	230.7
PAE223X6X199X12	223	6	199	12	46.9	59.7	5,715.6	1,576.5	9.8	5.1	512.6	158.4	563.3	239.5
W8X40	210	9	205	14	59.7	75.5	6,077.0	2,043.7	9.0	5.2	581.7	199.9	644.5	303.1
PAE229X6X216X15	229	6	216	15	60.2	76.7	7,825.1	2,519.8	10.1	5.7	683.4	233.3	752.8	351.9
W8X48	216	10	206	17	71.6	91.0	7,658.7	2,534.8	9.2	5.3	707.9	245.8	794.8	374.5
PAE237X6X199X19	237	6	199	19	68.7	87.6	9,401.2	2,495.9	10.4	5.3	793.3	250.8	883.7	378.2
W10X30	267	8	148	13	44.7	57.0	7,075.9	695.1	11.1	3.5	530.9	94.2	595.5	144.8
PAE263X6X170X12	263	6	170	12	43.3	55.1	7,113.6	983.0	11.4	4.2	541.0	115.7	597.7	175.7
W10X45	257	9	204	16	67.1	85.8	10,322.5	2,222.7	11.0	5.1	804.6	217.9	885.0	331.7
PAE269X8X216X15	269	8	216	15	65.9	83.9	11,373.9	2,520.4	11.6	5.5	845.6	233.4	937.2	354.1
W10X54	257	9	254	16	80.5	101.9	12,611.8	4,287.2	11.1	6.5	983.2	337.6	1,075.2	509.4
PAE269X8X265X15	269	8	265	15	77.4	98.6	13,747.6	4,653.4	11.8	6.9	1,022.1	351.2	1,123.9	530.9
W12X30	312	7	166	11	44.7	56.7	9,906.3	844.9	13.2	3.9	632.5	102.3	696.5	156.6
PAE324X6X170X12	324	6	170	12	46.2	58.8	11,284.0	983.1	13.9	4.1	696.5	115.7	771.5	176.2
W12X40	302	7	203	13	59.7	75.5	12,778.3	1,835.6	13.0	4.9	843.9	180.3	912.4	274.9
PAE324X6X216X12	324	6	216	12	54.8	69.8	13,972.0	2,016.1	14.1	5.4	862.5	186.7	943.7	282.8
W12X53	307	9	254	15	79.0	100.6	17,689.8	3,987.5	13.3	6.3	1,156.9	314.6	1,255.4	476.9
PAE330X8X265X15	330	8	265	15	81.2	103.5	21,535.9	4,653.7	14.4	6.7	1,305.2	351.2	1,432.1	531.8
W12X65	307	10	305	15	96.9	123.2	22,185.1	7,242.4	13.4	7.7	1,440.4	476.9	1,557.0	721.2
PAE330X8X342X15	330	8	342	15	99.4	126.6	27,270.5	10,001.7	14.7	8.9	1,652.8	584.9	1,796.0	882.4

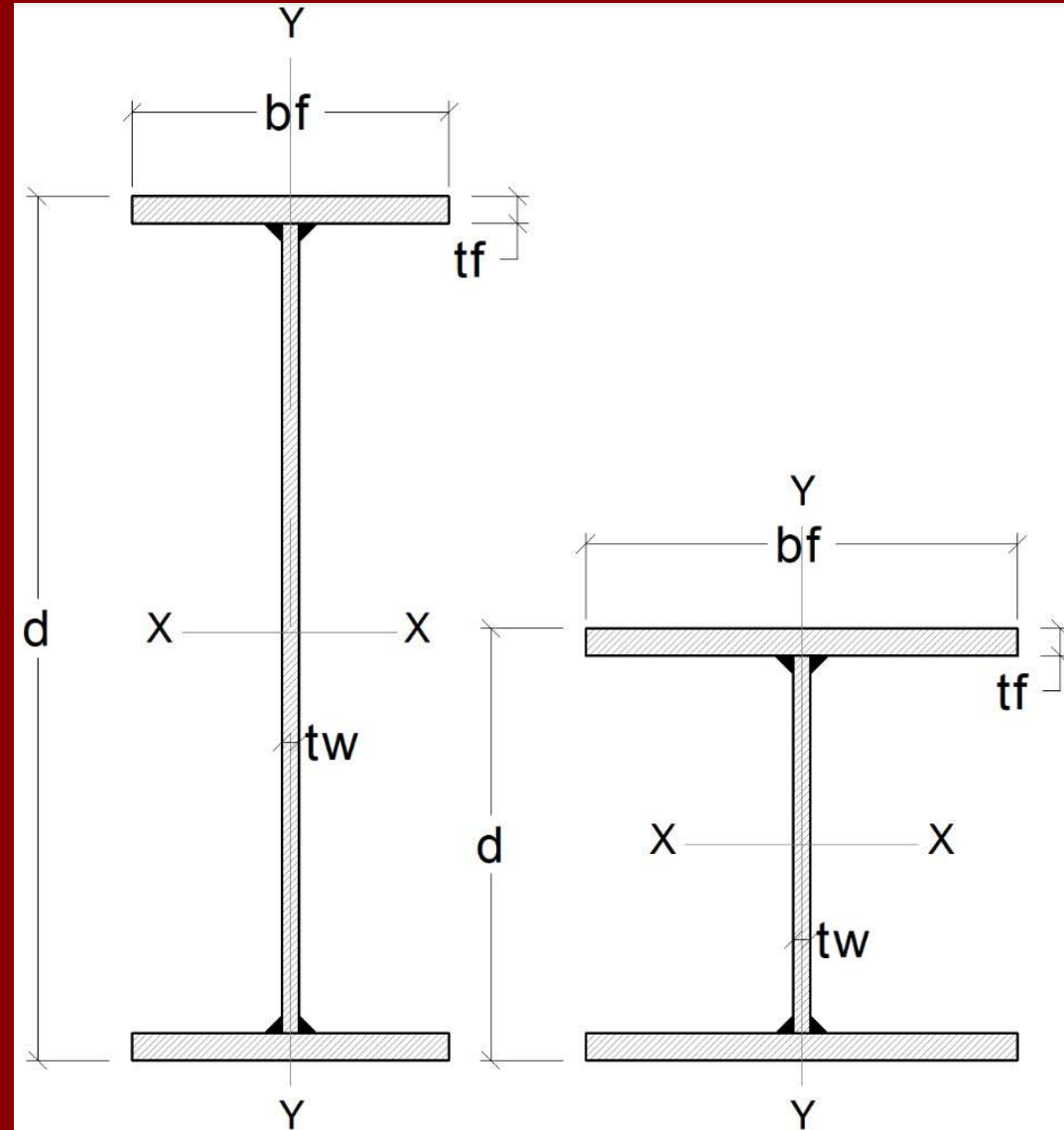


Nomenclatura

d: Altura total del perfil

tw: Ancho de los patines

tf: Espesor de los patines



Nomenclatura

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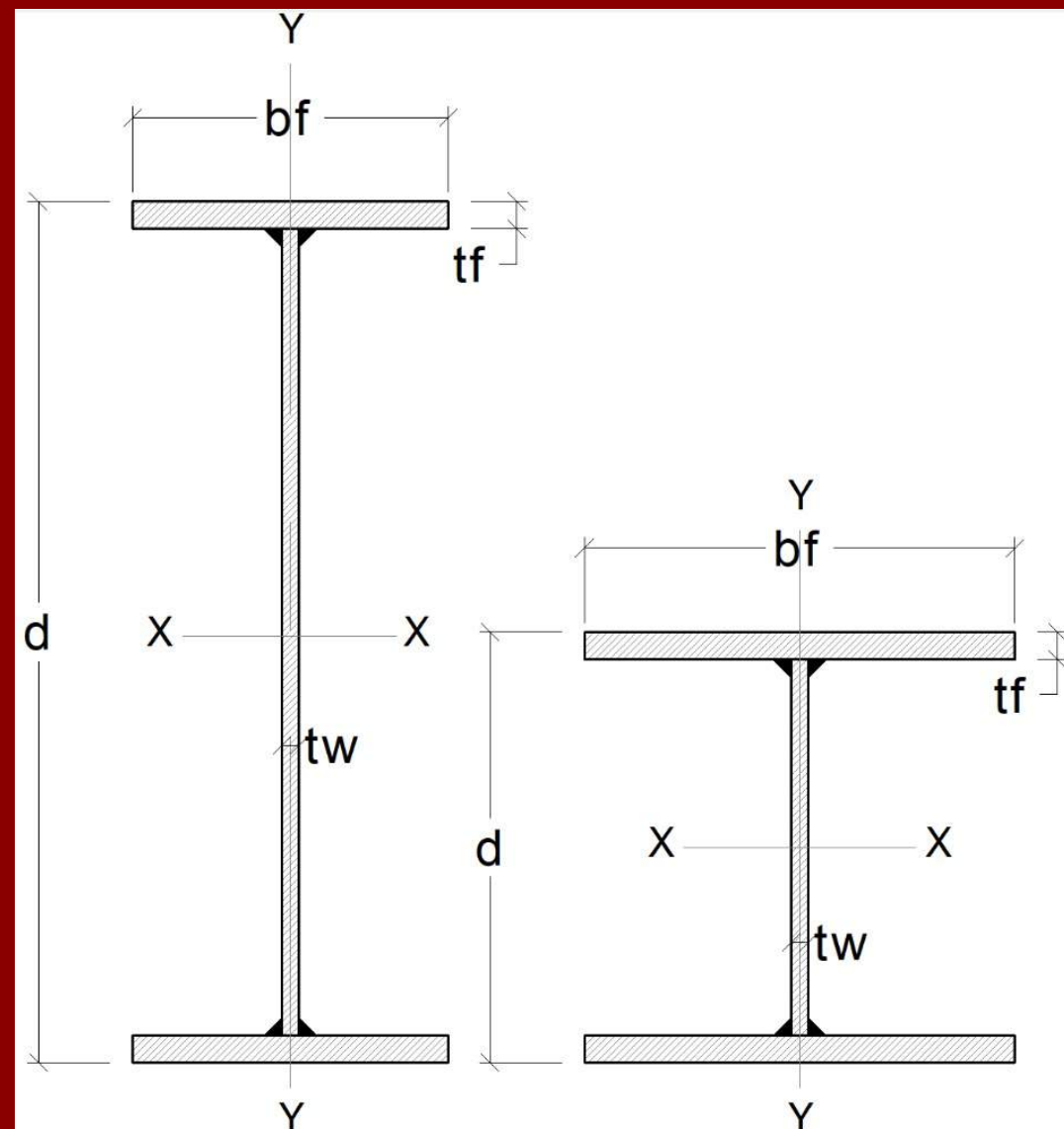
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TABLA DE PERFILES ARMADOS ESTRUMETAL

PAE CON PROPIEDADES MECANICAS EQUIVALENTES A LOS PERFILES TIPO W - NORMA AISC - Acero ASTM A572 Gr.50

PERFIL	d (mm)	tw (mm)	bf (mm)	tf (mm)	Peso (Kg/m)	As (cm ²)	Ix-x (cm ⁴)	Iy-y (cm ⁴)	rx (cm)	ry (cm)	Sx (cm ³)	Sy (cm ³)	Zx (cm ³)	Zy (cm ³)
W14X26	353	6	128	11	38.8	49.6	10,197.7	370.9	14.3	2.7	578.5	58.2	644.9	90.7
PAE360X6X158X9	360	6	158	9	38.4	49.0	10,761.6	592.3	14.8	3.5	597.9	75.0	674.6	115.5
W14X30	351	7	171	10	44.7	57.1	12,112.3	815.8	14.6	3.8	688.3	95.4	757.4	146.9
PAE360X6X183X9	360	6	183	9	42.0	53.5	12,147.9	919.9	15.1	4.1	674.9	100.5	753.5	153.9
W14X34	356	7	171	12	50.7	64.5	14,151.9	969.8	14.8	3.9	796.4	113.2	881.8	174.4
PAE366X6X183X12	366	6	183	12	50.6	64.4	15,765.1	1,226.3	15.6	4.4	861.5	134.0	952.8	204.2
W14X43	348	8	203	13	64.1	81.3	17,814.7	1,881.4	14.8	4.8	1,025.8	185.2	1,114.7	283.0
PAE372X6X199X15	372	6	199	15	63.0	80.2	21,033.0	1,970.8	16.2	5.0	1,130.8	198.1	1,241.1	300.3
W14X53	353	9	205	17	79.0	100.6	22,518.1	2,401.7	15.0	4.9	1,274.9	234.3	1,394.1	358.9
PAE372X8X216X15	372	8	216	15	72.3	92.2	23,325.7	2,520.9	15.9	5.2	1,254.1	233.4	1,390.6	355.8
W14X61	353	10	254	16	91.0	115.5	26,638.8	4,453.7	15.2	6.2	1,509.2	352.3	1,645.3	536.3
PAE372X9X265X15	372	9	265	15	86.6	110.3	28,345.5	4,654.5	16.0	6.5	1,524.0	351.3	1,682.2	534.1
W16X26	399	6	140	9	38.8	49.5	12,528.6	399.2	15.9	2.8	629.3	57.2	708.2	89.5
PAE416X6X148X8	416	6	148	8	37.4	47.7	13,055.9	433.0	16.5	3.0	627.7	58.5	723.1	91.3
W16X31	404	7	140	11	46.2	58.9	15,608.7	516.1	16.3	3.0	773.5	73.6	870.6	115.1
PAE424X6X148X12	424	6	148	12	46.7	59.5	18,277.5	649.1	17.5	3.3	862.1	87.7	971.7	135.2
W16X36	404	7	178	11	53.7	68.4	18,647.2	1,019.8	16.5	3.9	925.9	114.7	1,035.3	177.7
PAE424X6X183X12	424	6	183	12	53.3	67.9	21,843.2	1,226.4	17.9	4.2	1,030.3	134.0	1,144.8	204.7
W16X40	406	8	178	13	59.7	76.1	21,560.8	1,202.9	16.8	4.0	1,060.2	135.2	1,178.4	208.7
PAE430X6X170X15	430	6	170	15	58.9	75.0	25,168.3	1,229.0	18.3	4.0	1,170.6	144.6	1,298.3	220.5
W16X45	409	9	179	14	67.1	85.8	24,391.2	1,365.2	16.9	4.0	1,191.3	153.1	1,329.3	237.2
PAE430X8X183X15	430	8	183	15	68.2	86.9	27,914.8	1,533.8	17.9	4.2	1,298.4	167.6	1,459.2	257.9



Nomenclatura

d: Altura total del perfil

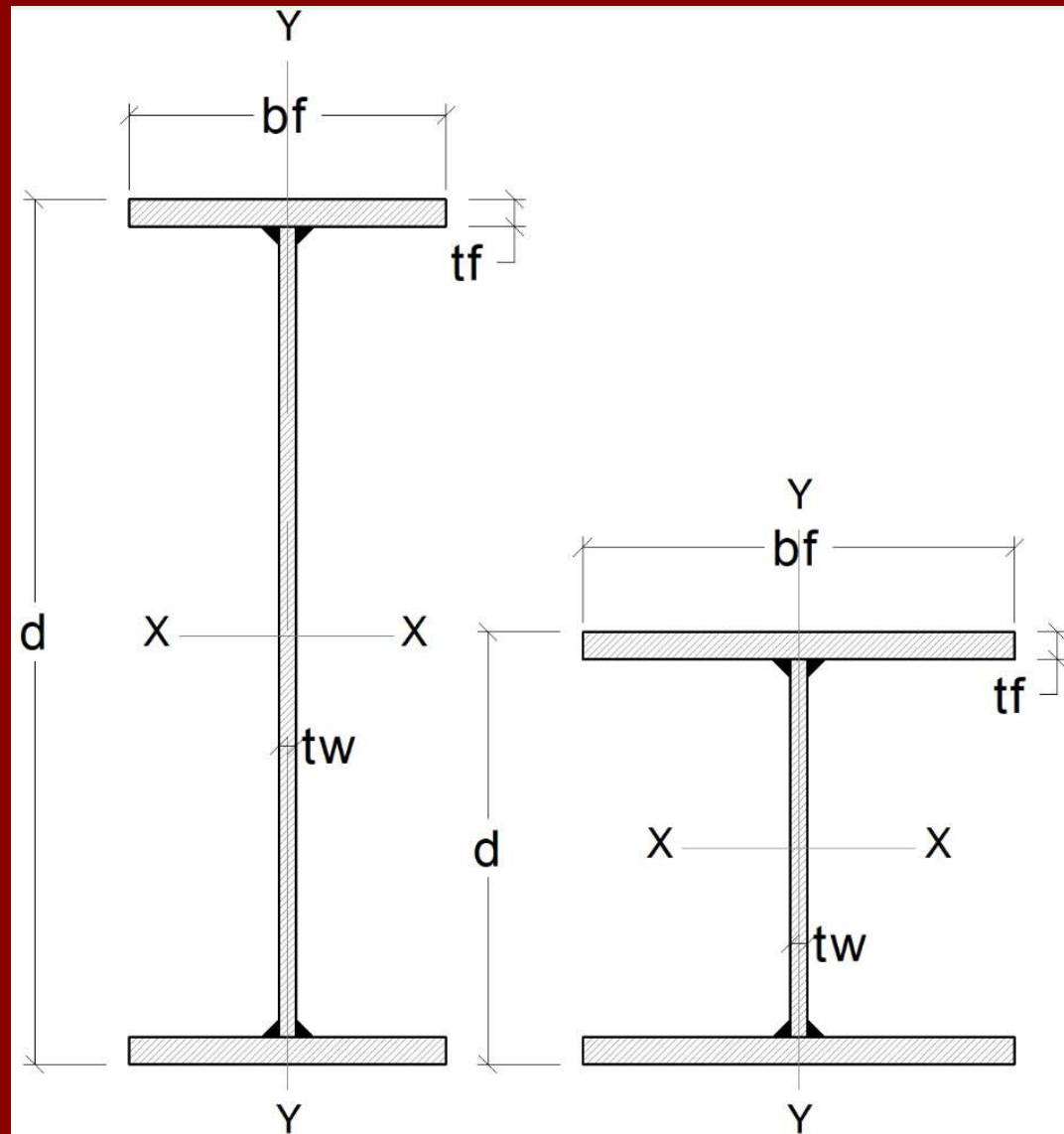
tw: Ancho de los patines

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TABLA DE PERFILES ARMADOS ESTRUMETAL

PAE CON PROPIEDADES MECANICAS EQUIVALENTES A LOS
PERFILES TIPO W - NORMA AISC - Acero ASTM A572 Gr.50

PERFIL	d (mm)	tw (mm)	bf (mm)	tf (mm)	Peso (Kg/m)	As (cm ²)	Ix-x (cm ⁴)	Iy-y (cm ⁴)	rx (cm)	ry (cm)	Sx (cm ³)	Sy (cm ³)	Zx (cm ³)	Zy (cm ³)
W16X57	417	11	181	18	85.0	108.4	31,550.3	1,794.0	17.1	4.1	1,510.9	198.3	1,703.3	309.2
PAE438X8X183X19	438	8	183	19	79.7	101.5	34,808.9	1,942.4	18.5	4.4	1,589.4	212.3	1,776.9	325.0
W16X77	419	12	262	19	114.8	145.8	46,201.7	5,744.0	17.8	6.3	2,195.9	440.8	2,437.4	674.4
PAE438X9X265X19	438	9	265	19	107.3	136.7	49,027.8	5,895.5	18.9	6.6	2,238.7	444.9	2,469.7	675.8
W18X35	450	8	152	11	52.2	66.5	21,227.8	636.8	17.9	3.1	943.9	83.9	1,070.8	131.8
PAE483X8X170X9	483	8	170	9	53.2	67.8	23,892.8	738.9	18.8	3.3	989.3	86.9	1,157.7	137.7
W18X40	455	8	153	13	59.7	76.1	25,473.4	795.0	18.3	3.2	1,120.9	104.1	1,266.3	163.1
PAE495X6X158X15	495	6	158	15	59.1	75.3	32,338.5	986.9	20.7	3.6	1,306.6	124.9	1,461.9	191.6
W18X50	457	9	191	14	74.6	94.8	33,298.5	1,669.1	18.7	4.2	1,456.8	175.3	1,634.5	271.9
PAE495X8X199X15	495	8	199	15	76.1	96.9	41,101.4	1,972.1	20.6	4.5	1,660.7	198.2	1,865.3	304.8
W18X55	460	10	191	16	82.0	104.5	37,044.6	1,868.9	18.8	4.2	1,610.8	195.0	1,811.2	303.8
PAE495X9X199X15	495	9	199	15	79.7	101.6	41,939.2	1,973.0	20.3	4.4	1,694.5	198.3	1,919.3	306.9
W21X48	523	9	207	11	71.6	91.0	39,916.6	1,610.8	20.9	4.2	1,524.0	156.0	1,715.6	243.7
PAE505X8X216X12	505	8	216	12	70.9	90.3	38,924.3	2,017.6	20.8	4.7	1,541.6	186.8	1,740.6	287.9
W21X55	528	10	209	13	82.0	104.5	47,450.4	2,014.6	21.3	4.4	1,802.6	193.4	2,025.4	300.8
PAE511X8X216X15	511	8	216	15	81.1	103.3	47,285.7	2,521.5	21.4	4.9	1,850.7	233.5	2,069.8	358.0
W21X62	533	10	209	16	92.5	118.1	55,358.8	2,393.3	21.7	4.5	2,081.2	229.4	2,333.3	355.7
PAE511X8X265X15	511	8	265	15	92.6	118.0	56,329.6	4,654.5	21.9	6.3	2,204.7	351.3	2,434.3	534.7
W24X55	599	10	178	13	82.0	104.5	56,191.2	1,211.2	23.2	3.4	1,868.1	136.0	2,165.6	218.3
PAE632X8X183X15	632	8	183	15	80.9	103.1	66,804.3	1,534.7	25.5	3.9	2,114.1	167.7	2,418.5	261.2
W24X62	602	11	179	15	92.5	117.4	64,515.9	1,436.0	23.4	3.5	2,146.7	160.6	2,466.4	257.4
PAE632X8X199X15	632	8	199	15	84.7	107.9	71,373.5	1,972.7	25.7	4.3	2,258.7	198.3	2,566.6	307.0



Nomenclatura

d: Altura total del perfil

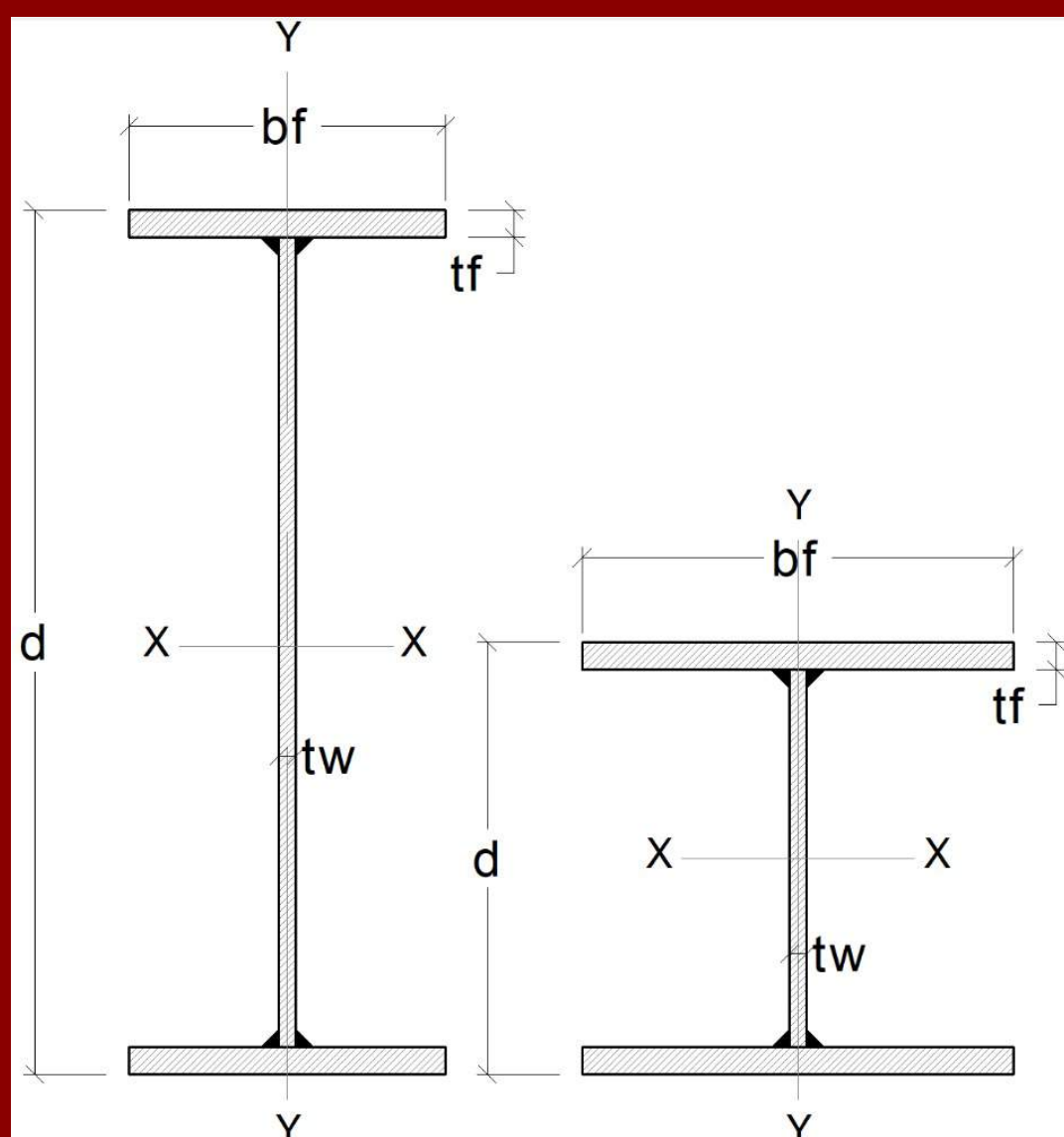
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TABLA DE PERFILES ARMADOS ESTRUMETAL

PAE CON PROPIEDADES MECANICAS EQUIVALENTES A LOS
PERFILES TIPO W - NORMA AISC - Acero ASTM A572 Gr.50

PERFIL	d (mm)	tw (mm)	bf (mm)	tf (mm)	Peso (Kg/m)	As (cm ²)	Ix-x (cm ⁴)	Iy-y (cm ⁴)	rx (cm)	ry (cm)	Sx (cm ³)	Sy (cm ³)	Zx (cm ³)	Zy (cm ³)
W24X68	602	11	228	15	101.4	129.7	76,170.4	2,930.3	24.2	4.8	2,523.6	257.3	2,850.7	402.2
PAE632X8X239X15	632	8	239	15	94.1	119.9	82,796.4	3,415.5	26.3	5.3	2,620.1	285.8	2,936.8	438.4
W24X76	607	11	228	17	113.3	144.5	87,408.6	3,433.9	24.6	4.9	2,884.1	301.5	3,241.9	469.1
PAE640X8X239X19	640	8	239	19	109.1	139.0	102,131.6	4,325.7	27.1	5.6	3,191.6	362.0	3,544.8	552.7
W24X84	612	12	229	20	125.3	159.4	98,646.8	3,929.2	24.9	5.0	3,211.9	342.5	3,635.3	534.9
PAE640X9X239X19	640	9	239	19	113.8	145.0	103,949.7	4,326.8	26.8	5.5	3,248.4	362.1	3,635.4	555.4
W24X104	612	13	325	19	155.1	198.1	129,031.7	10,780.4	25.5	7.4	4,227.9	667.0	4,719.6	1,031.3
PAE640X9X342X19	640	9	342	19	144.5	184.1	141,696.4	12,670.9	27.7	8.3	4,428.0	741.0	4,850.7	1,123.9
W27X102	688	13	254	21	152.1	193.5	150,675.8	5,785.6	27.9	5.5	4,375.3	455.6	4,938.5	709.2
PAE728X12X265X19	728	12	265	19	144.0	183.5	159,431.1	5,903.0	29.5	5.7	4,380.0	445.5	4,998.1	693.1
W27X146	696	15	356	25	217.7	278.7	235,587.0	18,439.1	29.1	8.1	6,784.2	1,040.6	7,516.2	1,606.5
PAE734X12X400X22	734	12	400	22	203.2	258.8	255,977.2	23,476.6	31.4	9.5	6,974.9	1,173.8	7,693.9	1,786.2
W27X178	706	18	358	30	265.4	338.7	292,194.5	23,100.8	29.4	8.3	8,275.5	1,291.3	9,235.9	1,997.8
PAE734X19X342X32	734	19	342	32	271.8	346.2	317,469.9	21,372.5	30.3	7.9	8,650.4	1,249.9	9,815.0	1,937.1
W30X108	757	14	267	19	161.1	204.5	186,055.4	6,077.0	30.2	5.5	4,899.7	457.2	5,583.2	722.5
PAE754X12X265X22	754	12	265	22	158.4	201.8	192,030.8	6,833.8	30.8	5.8	5,093.7	515.8	5,779.9	799.4
W30X124	767	15	267	24	184.9	235.5	223,100.0	7,533.8	30.8	5.7	5,817.4	563.7	6,608.6	882.1
PAE765X12X265X25	765	12	265	25	171.4	218.3	218,014.1	7,764.3	31.6	6.0	5,699.7	586.0	6,436.2	905.1
W30X148	780	17	267	30	220.7	281.3	278,042.6	9,448.5	31.4	5.8	7,144.8	709.6	8,132.3	1,118.6
PAE779X15X265X32	779	15	265	32	217.3	276.9	282,431.3	9,945.2	31.9	6.0	7,251.1	750.6	8,251.7	1,166.9
W33X118	836	14	292	19	176.0	223.9	245,576.5	7,783.5	33.1	5.9	5,883.0	534.2	6,709.3	842.4
PAE838X12X300X19	838	12	300	19	164.9	210.0	242,401.2	8,561.5	34.0	6.4	5,785.2	570.8	6,588.3	884.9



Nomenclatura

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TABLA DE PERFILES ARMADOS ESTRUMETAL

PAE CON PROPIEDADES MECANICAS EQUIVALENTES A LOS
PERFILES TIPO **W** - NORMA AISC - Acero ASTM A572 Gr.50

PERFIL	d (mm)	tw (mm)	bf (mm)	tf (mm)	Peso (Kg/m)	As (cm ²)	Ix-x (cm ⁴)	Iy-y (cm ⁴)	rx (cm)	ry (cm)	Sx (cm ³)	Sy (cm ³)	Zx (cm ³)	Zy (cm ³)
W33X152	851	16	295	27	226.7	289.7	339,644.8	11,363.1	34.2	6.3	7,980.5	773.5	9,098.2	1,223.6
PAE850X15X342X25	850	15	342	25	228.4	291.0	355,056.3	16,689.9	34.9	7.6	8,354.3	976.0	9,453.8	1,509.5
W33X221	861	20	401	33	329.6	421.3	536,938.5	34,963.4	35.7	9.1	12,437.8	1,737.0	13,929.1	2,700.9
PAE864X19X400X32	864	19	400	32	320.3	408.0	524,308.5	34,179.1	35.8	9.2	12,136.8	1,709.0	13,689.6	2,637.4
W36X135	904	15	305	20	201.3	257.4	324,660.5	9,365.2	35.5	6.0	7,193.9	617.8	8,252.6	984.3
PAE938X12X342X19	938	12	342	19	186.8	238.0	347,337.0	12,680.2	38.2	7.3	7,405.9	741.5	8,401.7	1,144.7
W36X182	922	18	307	30	271.4	345.8	470,341.5	14,443.2	36.9	6.5	10,209.1	943.9	11,638.6	1,493.2
PAE964X15X300X32	964	15	300	32	256.7	327.0	508,228.4	14,425.3	39.4	6.6	10,544.2	961.7	11,984.7	1,493.7
W36X247	932	20	419	34	368.3	467.7	695,106.5	42,039.4	38.5	9.5	14,961.4	2,015.6	16,692.2	3,107.0
PAE976X19X400X38	976	19	400	38	372.9	475.0	784,472.3	40,584.8	40.6	9.2	16,075.3	2,029.2	18,105.1	3,127.4
W40X149	970	16	300	21	222.2	282.6	407,906.8	9,531.7	38.0	5.8	8,406.6	635.8	9,443.7	1,008.7
PAE964X15X342X22	964	15	342	22	226.5	288.5	431,223.0	14,693.2	38.7	7.1	8,946.5	859.2	10,261.6	1,340.5
W40X199	983	17	401	27	296.8	379.4	620,184.8	28,928.1	40.4	8.7	12,618.0	1,445.3	13,984.3	2,255.2
PAE970X15X465X25	970	15	465	25	290.8	370.5	616,527.9	41,919.5	40.8	10.6	12,711.9	1,803.0	14,159.6	2,757.0
W40X235	1,008	21	302	40	350.4	445.8	724,242.7	18,480.7	40.3	6.4	14,338.7	1,222.5	16,285.1	1,944.4
PAE1006X19X342X38	1,006	19	342	38	342.7	436.6	736,547.5	25,387.6	41.1	7.6	14,643.1	1,484.7	16,688.4	2,312.4