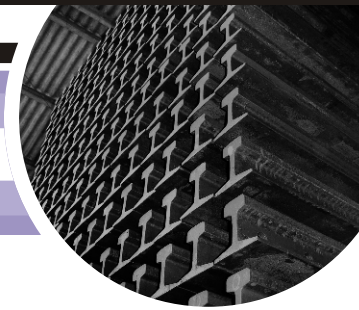
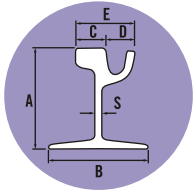


## Tabela de Consultas Tabla de Consultas



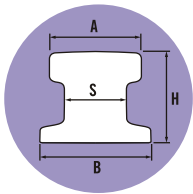
### Trilho de garganta (para bonde) Riel de viga (para tranvía)



	PESO PESO		ALTURA ALTURA A		PATIM BASE B		BOLETO HONGO C		ALMA ALMA D		LARGURA TOTAL ANCHURA TOTAL E	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
51Ri1 (Ri52-13)	51.37	103.56	130	5.12	150	5.91	56.0	2.21	42.0	1.65	113	4.45
53Ri1 (Ri53-13)	52.97	106.78	130	5.12	150	5.91	56.0	2.21	36.0	1.42	113	4.45
59Ri1 (Ri59-10)	58.97	118.88	180	7.09	180	7.09	56.0	2.21	42.7	1.68	113	4.45
59Ri2 (Ri59-13)	58.14	117.20	180	7.09	180	7.09	56.0	2.21	42.0	1.65	113	4.45
60Ri1 (Ri60-10)	60.59	122.14	180	7.09	180	7.09	56.0	2.21	36.7	1.44	113	4.45
60Ri2 (Ri60-13)	59.75	120.45	180	7.09	180	7.09	56.0	2.21	36.0	1.42	113	4.45
62Ri1 (NP4aM)	62.37	125.73	180	7.09	180	7.09	56.0	2.21	34.5	1.36	116	4.57
57Ri1 (Ph37)	56.54	113.98	182	7.17	150	5.91	52.5	2.07	60.5	2.38	127	5.00

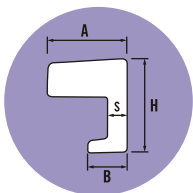
As almas(S) de todos esses trilhos têm uma espessura de 12mm, com exceção do 57Ri1 (11 mm)  
Las almas(S) de los rieles son de 12mm, a excepción del 57Ri1 (11mm)

### Terceiro trilho Tercer riel (riel conductor)



	PESO PESO		BOLETO HONGO A		ALTURA ALTURA H		PATIM BASE B		ALMA ALMA S	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
150 NMC (TR75)	74.00	149.16	104.8	4 1/8	103.2	4 1/16	123.8	4 7/8	69.85	2 3/4
T52	52.31	105.45	101	3.98	100.5	3.96	44	1.73	46	1.81

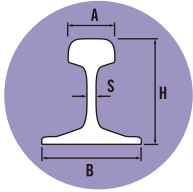
### Contra-trilho Contra-riel



	PESO PESO		BOLETO HONGO A		ALTURA ALTURA H		PATIM BASE B		ALMA ALMA S	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
UIC 33	32.92	66.2	93	3.66	80	3.15	40	1.57	20	0.79

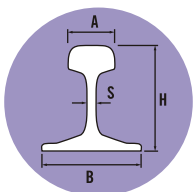
## Tabela de Consultas Tabla de Consultas

### Trilho vignole (trilho ferroviário) - Perfis americanos Riel vignole (riel férreo) - Perfiles americanos



	PESO PESO		BOLETO HONGO A		ALTURA ALTURA H		PATIM BASE B		ALMA ALMA S	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
141RE (TR70)	69.79	140.70	77.79	3 1/16	188.91	7 7/16	152.40	6	17.46	11/16
136RE (TR68)	67.41	135.88	74.61	2 15/16	185.74	7 5/16	152.40	6	17.46	11/16
133RE	66.10	133.25	76.20	3	179.39	7 1/16	152.40	6	17.46	11/16
132RE	65.31	131.66	76.20	3	180.98	7 1/8	152.40	6	16.67	21/32
CB122	60.77	122.50	74.61	2 15/16	172.24	6 25/32	152.40	6	16.67	21/32
119RE	58.87	118.67	67.47	2 21/32	173.04	6 13/16	139.70	5 1/2	15.88	5/8
115RE (TR57)	56.90	114.68	69.06	2 23/32	168.28	6 5/8	139.70	5 1/2	15.88	5/8
100RE (TR50)	50.35	101.50	68.26	2 11/16	152.40	6	136.53	5 3/8	14.29	9/16
100ARA-B	49.88	100.56	67.47	2 21/32	143.27	5 41/64	130.57	5 9/64	14.29	9/16
100ARA-A	49.80	100.39	69.85	2 3/4	152.40	6	139.70	5 1/2	14.29	9/16
90ARA-A (TR45)	44.65	90.00	65.09	2 9/16	142.88	5 5/8	130.18	5 1/8	14.29	9/16

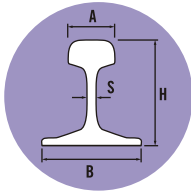
### Trilho vignole (trilho ferroviário) - Perfis europeus Riel vignole (riel férreo) - Perfiles europeos



	PESO PESO		BOLETO HONGO A		ALTURA ALTURA H		PATIM BASE B		ALMA ALMA S	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
RN45	44.79	90.29	66.0	2.60	142.0	5.59	130.0	5.12	15.0	0.59
46E2 (U33)	46.27	93.28	62.0	2.44	145.0	5.71	134.0	5.28	15.0	0.59
49E1 (S49 DIN)	49.90	100.59	67.0	2.64	149.0	5.87	125.0	4.92	14.0	0.55
50E6 (U50)	50.90	102.61	65.0	2.56	153.0	6.02	140.0	5.51	15.5	0.61
54E1 (UIC54)	54.77	110.41	70.0	2.76	159.0	6.26	140.0	5.51	16.0	0.63
54E2 (UIC54E)	53.82	108.50	67.01	2.64	161.0	6.34	125.0	4.92	16.0	0.63
54E3 (S54 DIN)	54.57	110.01	67.0	2.64	154.0	6.06	125.0	4.92	16.0	0.63
60E1 (UIC60)	60.21	121.38	72.0	2.83	172.0	6.77	150.0	5.91	16.5	0.65

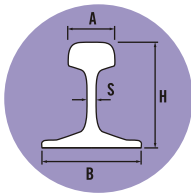
## Tabela de Consultas Tabla de Consultas

### Trilho Leve - Perfis americanos Riel ligero - Perfiles americanos



	PESO PESO		BOLETO HONGO A		ALTURA ALTURA H		PATIM BASE B		ALMA ALMA S	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
ASCE 85	42.17	85.00	65.09	2 9/16	131.76	5 3/16	131.76	5 3/16	14.29	9/16
ASCE 80 (TR40)	39.68	80.00	63.50	2 1/2	127.00	5	127.00	5	13.89	35/64
ASCE 75 (TR37)	37.20	75.00	62.7	2 15/32	122.2	4 13/16	122.2	4 13/16	13.49	17/32
ASCE 60 (TR30)	29.76	60.00	60.32	2 3/8	107.95	4 1/4	107.95	4 1/4	12.30	31/64
ASCE 40	19.84	40.00	47.62	1 7/8	88.90	3 1/2	88.90	3 1/2	9.92	25/64
ASCE 30	14.88	30.00	42.86	1 11/16	79.37	3 1/8	79.37	3 1/8	8.33	21/64
ASCE 25	12.40	25.00	38.10	1 1/2	69.85	2 3/4	69.85	2 3/4	7.54	19/64
ASCE 20	9.92	20.00	34.13	1 11/32	66.67	2 5/8	66.67	2 5/8	6.35	1/4

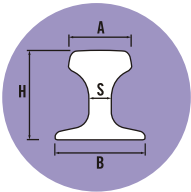
### Trilho Leve - Perfis europeus Riel ligero - Perfiles europeos



	PESO PESO		BOLETO HONGO A		ALTURA ALTURA H		PATIM BASE B		ALMA ALMA S	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
S7	6.75	13.61	25	0.98	65	2.56	50	1.97	5	0.20
S10	10.00	20.16	32	1.26	70	2.76	58	2.28	6	0.24
S12	12.00	24.19	34	1.34	80	3.15	65	2.56	7	0.28
S14	14.00	28.22	38	1.50	80	3.15	70	2.76	9	0.35
S18	18.30	36.89	43	1.69	93	3.66	82	3.23	10	0.39
S20	19.80	39.91	44	1.73	100	3.94	82	3.23	10	0.39
S24	24.43	49.25	53	2.09	115	4.53	90	3.54	10	0.39
S30	30.03	60.48	60.3	2.37	108	4.25	108	4.25	12.3	0.48
S33	33.47	67.47	58	2.28	134	5.28	105	4.13	11	0.43
S41/10 (41E1)	41.24	83.14	67	2.64	138	5.43	125	4.92	12	0.47
26AFNOR	26.3	53.02	50	1.97	110	4.33	100	3.94	10	0.39
30AFNOR	30	60.48	58.6	2.31	125.5	4.94	106	4.17	11	0.43

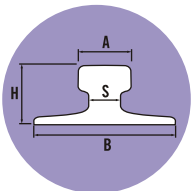
## Tabela de Consultas Tabla de Consultas

### Trilho para ponte rolante e guindaste - Perfis americanos Riel de grúa - Perfiles americanos



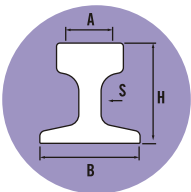
	PESO PESO		BOLETO HONGO A		ALTURA ALTURA H		PATIM BASE B		ALMA ALMA S	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
CR175 (TR87)	86.80	175.00	107.95	4 1/4	152.40	6	152.40	6	38.10	1 1/2
CR171	84.83	171.00	109.22	4.30	152.40	6	152.40	6	31.75	1 1/4
CR135	66.97	135.00	87.31	3 7/16	146.05	5 3/4	131.76	5 3/16	31.75	1 1/4
CR105 (TR52)	52.09	105.00	65.09	2 9/16	131.76	5 3/16	131.76	5 3/16	23.81	15/16
CR104	51.59	104.00	63.50	2 1/2	127.00	5	127.00	5	25.40	1

### Trilho para ponte rolante e guindaste - Perfis americanos Riel de grúa - Perfiles americanos



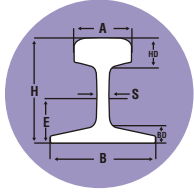
	PESO PESO		BOLETO HONGO A		ALTURA ALTURA H		PATIM BASE B		ALMA ALMA S	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
A150	150.30	302.99	150.00	5.91	150.00	5.91	220.00	8.66	80.00	3.15
A120	100.00	201.59	120.00	4.72	105.00	4.13	220.00	8.66	72.00	2.83
A100	74.30	149.78	100.00	3.94	95.00	3.74	200.00	7.87	60.00	2.36
A75	56.20	113.29	75.00	2.95	85.00	3.35	200.00	7.87	45.00	1.77
A65	43.10	86.88	65.00	2.56	75.00	2.95	175.00	6.89	38.00	1.50
A55	31.80	64.11	55.00	2.17	65.00	2.56	150.00	5.91	31.00	1.22
A45	22.10	44.55	45.00	1.77	55.00	2.17	125.00	4.92	24.00	0.94

### Trilhos para ponte rolante e guindaste - Perfis especiais Rieles de grúa - Perfiles especiales



	PESO PESO		BOLETO HONGO A		ALTURA ALTURA H		PATIM BASE B		ALMA ALMA S	
	kg/m	lb/yda	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.	mm	pol./pulg.
MRS 73	73.63	148.43	70.0	2.76	157.0	6.18	146.0	5.75	32.0	1.26
MRS 86	85.50	172.40	102.0	4.02	102.0	4.02	165.0	6.50	80.3	3.16
MRS 87A	86.80	175.00	101.6	4	152.4	6	152.4	6	34.9	1 3/8
MRS 125	125.00	252.00	120.0	4.72	180.0	7.09	180.0	7.09	40.0	1.57
MRS 192	192.00	387.07	140.0	5.51	157.2	6.19	229.0	9.02	128.3	5.05
MRS 221	221.40	446.32	220.0	8.66	160.0	6.30	220.0	8.66	145.0	5.71
AS86	85.88	173.13	101.6	4	152.46	6	150.0	5.91	35.0	1.38
CR73	73.30	147.76	100.0	3.94	135.0	5.31	140.0	5.51	32.0	1.26
CR100	100.20	201.99	120.0	4.72	150.0	5.91	155.0	6.10	39.0	1.54

# Seções de Trilho Secciones de Carril



Peso Normal Por Jarda Peso Normal Por Yarda	Tipo de trilho Tipo de carril	DIMENSÃO EM POLEGADAS DIMENSION EN PULGADAS								DESIGNAÇÃO DA SEÇÃO DESIGNACIÓN DE LA SECCIÓN		
		H	B	A	S	HD	FD	BD	E			
12 lb.	ASCE	2	2	1	3/16	9/16	1 3/32	2	2	1240	12 AS	-
16 lb.	ASCE	2 3/8	2 3/8	1 11/64	7/32	41/64	1 23/64	2 3/8	2 3/8	1640	16 AS	-
20 lb.	ASCE	2 5/8	2 5/8	1 11/32	1/4	23/32	1 15/32	2 5/8	2 5/8	2040	20 AS	-
25 lb.	ASCE	2 3/4	2 3/4	1 1/2	19/64	25/32	1 31/64	2 3/4	2 3/4	2540	25 AS	-
30 lb.	ASCE	3 1/8	3 1/8	1 11/16	21/64	7/8	1 23/32	3 1/8	3 1/8	3040	30 AS	-
35 lb.	ASCE	3 5/16	3 5/16	1 3/4	23/64	61/64	1 25/32	3 5/16	3 5/16	3540	35 AS	-
40 lb.	ASCE	3 1/2	3 1/2	1 7/8	25/64	1 1/64	1 55/64	3 1/2	3 1/2	4040	40 AS	-
45 lb.	ASCE	3 11/16	3 11/16	2	27/64	1 1/16	1 31/32	3 11/16	3 11/16	4540	45 AS	-
50 lb.	ASCE	3 7/8	3 7/8	2 1/8	7/16	1 1/8	2 1/16	3 7/8	3 7/8	5040	50 AS	-
55 lb.	ASCE	4 1/16	4 1/16	2 1/4	15/32	1 11/64	2 11/64	4 1/16	4 1/16	5540	55 AS	-
60 lb.	ASCE	4 1/4	4 1/4	2 3/8	31/64	1 7/32	2 17/64	4 1/4	4 1/4	6040	60 AS	603
	MISC.	4 1/4	4 1/4	2 5/16	1/2	1 7/16	2 1/8	4 1/4	4 1/4	6051	-	-
65 lb.	ASCE	4 7/16	4 7/16	2 13/32	1/2	1 9/32	2 3/8	4 7/16	4 7/16	6540	65 AS	653
70 lb.	ASCE	4 5/8	4 5/8	2 7/16	33/64	1 11/32	2 15/32	4 5/8	4 5/8	7040	70 AS	701
75 lb.	ASCE	4 13/16	4 13/16	2 15/32	17/32	1 27/64	2 35/64	4 13/16	4 13/16	7540	75 AS	753
	MO. PAC.	4 3/4	4 3/4	2 9/16	9/16	1 7/16	2 15/32	4 3/4	4 3/4	7550	75 MP	-
	S. PAC.	4 15/16	4 7/16	2 7/16	33/64	1 3/8	2 5/8	4 15/16	4 15/16	7524	75 SP	757
80 lb.	ASCE	5	5	2 1/2	35/64	1 1/2	2 5/8	5	5	8040	80 AS	800
	DUDLEY	5 1/8	5	2 21/32	17/32	1 1/2	2 3/4	5 1/8	5 1/8	8022	80 DY	-
85 lb.	ASCE	5 3/16	5 3/16	2 9/16	9/16	1 35/64	2 3/4	5 3/16	5 3/16	8540	85 AS	851
	CAN. PAC.	5 1/8	5	2 1/2	9/16	1 7/16	2 11/16	5 1/8	5 1/8	8524	85 CP	-
	CB&Q	5 3/16	5 1/4	2 21/32	9/16	1 35/64	2 3/4	5 3/16	5 3/16	8543	85 CB	852
	MO. PAC.	5 7/32	4 5/8	2 15/32	75/128	1 3/4	2 39/64	5 7/32	5 7/32	8550	-	-
	PS	5 1/8	5 1/8	2 1/2	17/32	1 21/32	2 15/32	5 1/8	5 1/8	8531	85 PS	-
	PRR	5	5	2 9/16	17/32	1 3/4	2 3/8	5	5	8533	85 PR	-
	SOO LINE	5 3/8	4 7/8	2 1/2	9/16	1 15/32	2 29/32	5 3/8	5 3/8	8520	-	-
90 lb.	ASCE	5 3/8	5 3/8	2 5/8	9/16	1 19/32	2 55/64	5 3/8	5 3/8	9040	90 AS	-
	ARA-A	5 5/8	5 1/8	2 9/16	9/16	1 15/32	3 5/32	5 5/8	5 5/8	9020	90 RA	902
	ARA-B	5 17/64	4 49/64	2 9/16	9/16	1 39/64	2 5/8	5 17/64	5 17/64	9030	90 RB	905
	AT&SF	5 5/8	5 5/16	2 9/16	9/16	1 15/32	3 5/32	5 5/8	5 5/8	9021	90 SF	903
	C&NW	5 17/32	5 3/32	2 1/2	1/2	1 17/32	2 31/32	5 17/32	5 17/32	9035	90 DO	-
	D&RG	5 1/2	5 1/8	2 9/16	9/16	1 5/8	2 7/8	5 1/2	5 1/2	-	-	906
	GRT. NO.	5 3/8	5	2 5/8	9/16	1 15/32	2 7/8	5 3/8	5 3/8	9024	-	-
	INTRBGH	5	5	2 7/8	11/16	1 15/32	2 11/32	5	5	9050	90 RT	-
	U. PAC.	5 3/4	5 3/8	2 3/4	17/16	1 25/32	3 3/8	5 3/4	5 3/4	9023	-	901
	DUDLEY	5 1/2	5	2 21/32	9/16	1 15/32	3 1/32	5 1/2	5 1/2	-	90 DY	-
100 lb.	ASCE	5 3/4	5 3/4	2 3/4	9/16	1 45/64	3 5/64	5 3/4	5 3/4	10040	100 AS	-
	PS	5 11/16	5	2 3/4	9/16	1 13/16	2 25/32	5 11/16	5 11/16	10031	100 PS	-
	PRR	5 1/2	5 1/2	2 3/4	5/8	1 7/8	2 11/16	5 1/2	5 1/2	10033	100 PR	-
	ARA-A	6	5 1/2	2 3/4	9/16	1 9/16	3 3/8	6	6	10020	100 RA	1003
	ARA-B	5 41/64	5 9/64	2 3/4	9/16	1 45/64	2 55/64	5 41/64	5 41/64	10030	100 RB	1002
	AREA	6	5 3/8	2 3/4	9/16	1 21/32	3 9/32	6	6	10025	100 RE	10025
	C&NW	5 45/64	5 9/64	2 3/4	9/16	1 39/64	2 61/64	5 45/64	5 45/64	10035	100 DM	-
	GRT. NO.	5 45/64	5	2 3/4	9/16	1 5/8	3	5 45/64	5 45/64	10036	100 GN	-
	INTRBGH	5 3/4	5 3/4	2 3/4	9/16	1 45/64	3 5/64	5 3/4	5 3/4	10005	100 RT	-
	NY. NH&H	6	5 1/2	2 3/4	19/32	1 23/32	3 11/32	6	6	10034	100 NH	-
	READING	5 5/8	5 5/8	2 3/4	9/16	1 45/64	2 55/64	5 5/8	5 5/8	10032	100 RG	-
101 lb.	DL&W	5 7/16	5 3/8	2 3/4	5/8	1 23/32	2 11/16	5 7/16	5 7/16	10133	101 DL	-
105 lb.	DL&W	6	5 3/8	2 3/4	5/8	1 23/32	3 1/4	6	6	10533	105 DL	-
	DUDLEY	6	5 1/2	3	5/8	1 5/8	3 13/32	6	6	10524	105 DY	-
110 lb.	AREA	6 1/4	5 1/2	2 25/32	19/32	1 23/32	3 13/32	6 1/4	6 1/4	11025	110 RE	1100
	GR. NO.	6 1/2	5 1/2	2 3/4	19/32	1 5/8	3 3/4	6 1/2	6 1/2	11036	110 GN	-
	LE. VAL.	6	5 1/2	2 7/8	19/32	1 7/8	3 1/16	6	6	11033	110 LV	-
112 lb.	AREA	6 5/8	5 1/2	2 23/32	19/32	1 11/16	3 13/16	6 5/8	6 5/8	11228	112 RE	1121
	TR.	6 3/4	5 1/2	2 1/2	5/8	1 3/4	3 3/4	6 3/4	6 3/4	11229	-	1122
113 lb.	SO. PAC.	6 13/16	5 1/2	2 11/16	19/32	1 7/8	3 13/16	6 13/16	6 13/16	-	-	1130
115 lb.	AREA	6 5/8	5 1/2	2 23/32	5/8	1 11/16	3 13/16	6 5/8	6 5/8	11525	115 RE	1150
	DUDLEY	6 1/2	5 1/2	3	5/8	1 11/16	3 3/4	6 1/2	6 1/2	11522	115 DY	-
119 lb.	AREA	6 13/16	5 1/2	2 21/32	5/8	1 7/8	3 13/16	6 13/16	6 13/16	11937	119 RE	-
127 lb.	DUDLEY	7	6 1/4	3	21/32	1 11/16	4 5/32	7	7	12723	127DYM	-
130 lb.	PS	6 5/8	5 1/2	3	11/16	2	3 13/32	6 5/8	6 5/8	13031	130 PS	-
	AREA	6 3/4	6	2 15/16	21/32	1 27/32	3 11/16	6 3/4	6 3/4	13025	130 RE	1300
131 lb.	AREA	7 1/8	6	3	21/32	1 3/4	4 3/16	7 1/8	7 1/8	13128	131 RE	1311
132 lb.	AREA	7 1/8	6	3	21/32	1 3/4	4 3/16	7 1/8	7 1/8	13228	132 RE	1321
133 lb.	AREA	7 1/16	6	3	11/16	1 15/16	3 15/16	7 1/16	7 1/16	13331	133 RE	1330
136 lb.	AREA	7 5/16	6	3	11/16	1 15/16	4 3/16	7 5/16	7 5/16	13637	136 RE	-
140 lb.	AREA	7 5/16	6	2 15/16	3/4	2 1/16	4 3/16	7 5/16	7 5/16	-	140 RE	-
152 lb.	PS	8	6 3/4	3	11/16	1 27/32	4 7/8	8	8	15222	152 PS	-
155 lb.	PS	8	6 3/4	3	3/4	2 1/16	4 21/32	8	8	15531	155 PS	-