

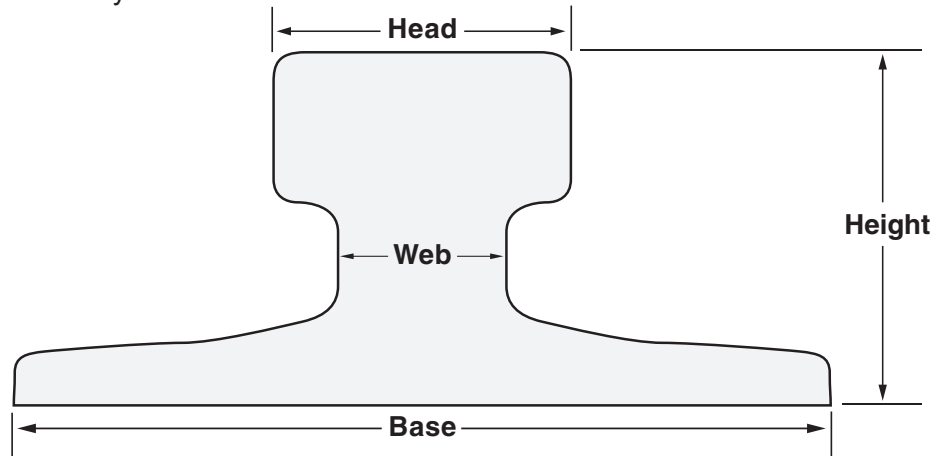


# EUROPEAN CRANE RAIL

European Crane Rails are characterized by a wide base, low center of gravity, and thick web, making them exceptionally well-suited to withstand strong lateral forces. These rails come in various section profiles ranging from A45 to A150, with the number indicating the head width in millimeters. For example, an A150 rail has a head that measures 150 millimeters across.

These rails are produced according to DIN 536, a European technical specification, and are offered in three different steel grades. The most frequently requested option is the S700 standard grade, but two higher-strength grades are also available. You can refer to the table below for the minimum tensile strength of each grade.

The highest grade, S1100, achieves its enhanced strength and hardness through the use of a chrome-vanadium alloy steel.



<b>Tensile Strength:</b>	S700 Grade	690 N/mm <sup>2</sup>	202 BHN
	S900A Grade	880 N/mm <sup>2</sup>	261 BHN
	S1100 Grade	1080 N/mm <sup>2</sup>	320 BHN
<b>Standard Lengths:</b> 10 Meters 12 Meters (most common) 15 Meters			
Rails are supplied with blank ends (no holes). All joints must be welded.			

Section	Weight		Head		Height		Base		Web		Area	Moment of Inertia	Section Modulus	
													Head	Base
	kg/m	lbs/yd	mm	inch	mm	inch	mm	inch	mm	inch	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm <sup>3</sup>
<b>A45</b>	22.10	44.55	45.00	1.77	55.00	2.17	125.00	4.92	24.00	0.94	28.20	90.00	41.50	27.00
<b>A55</b>	31.80	64.11	55.00	2.17	65.00	2.56	150.00	5.91	31.00	1.22	40.50	178.00	68.80	45.60
<b>A65</b>	43.10	86.88	65.00	2.56	75.00	2.95	175.00	6.89	38.00	1.50	54.90	319.00	105.40	71.30
<b>A75</b>	56.20	113.29	75.00	2.95	85.00	3.35	200.00	7.87	45.00	1.77	71.60	531.00	153.60	105.30
<b>A100</b>	74.30	149.78	100.00	3.94	95.00	3.74	200.00	7.87	60.00	2.36	94.70	856.00	203.40	161.80
<b>A120</b>	100.00	201.59	120.00	4.72	105.00	4.13	220.00	8.66	72.00	2.83	127.40	1361.00	289.10	235.00
<b>A150</b>	150.30	302.99	150.00	5.91	150.00	5.91	220.00	8.66	80.00	3.15	191.40	4373.00	601.50	565.70