

KARLGARIN MODELS

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SCALE FLATBOTTOM RAIL for 0 & Gauge 1



For years, those wishing to model standard- or narrow-gauge track with flatbottom rails in 7mm scale/0 Gauge have generally had to make do with rail originally intended for 00/H0 use. Whilst perfectly functional, such rail is often made with a profile which does not accurately represent a given size of rail in a larger scale, resulting in a very unconvincing appearance.

Karlgarin Models have invested in exclusive new tooling and now produce correctly proportioned sections of flatbottom rail in three sizes. Whilst specifically dimensioned for 1:43 7mm/ft scale, they are also suitable for representing slightly heavier prototype weights of rail in 1:48 O scale, and lighter rails in 1:32 scale / Gauge 1. All Karlgarin FB rail is made in top-quality high-Ni nickel silver to provide a far more realistic effect than the 'yellow' look of traditional nickel silver rail.

The table shows (in 7mm [1/43] scale) prototype rail sizes (traditionally measured in weight per linear unit) in relation to the universal modelling practice of referring to the height of the rail (in thousandths of an inch) as being of 'code xxx'. For the sake of completeness, the largest 7mm-scaled size currently available commercially is also included.

Manufacturer		Karlgarin Models	Karlgarin Models	Karlgarin Models	Peco
Model size (Code)		<u>82/7</u>	<u>100/7</u>	<u>125/7</u>	<u>143 (actually 148)</u>
Prototype rail weight(s) represented		40-45lb/yard 20-21kg/m nominal	60-70lb/yard 27-31kg/m nominal	80-100lb/yard 41-49kg/m nominal	110-115lb/yard 50-55 kg/m nominal
Model:	Height	0.082"	0.099"	0.126"	0.148"
	Foot Width	0.080"	0.100"	0.112"	0.123"
	Head Width	0.044"	0.053"	0.056"	0.063"
	(see note 1)				
Prototype:	Height	3 1/2"	4 5/16"	5 7/16"	6 1/4"
	Foot Width	3 1/2"	4 5/16"	4 7/8"	5 3/8"
	Head Width	1 7/8"	2 5/16"	2 7/16"	2 3/4"
	(see note 2)				
Std. 00/H0 alternatives:					
	Height	0.082"	0.100"		
	Foot Width	0.070"	0.087"	N/A	N/A
	Head Width	0.031"	0.042"		

Note 1 All scale dimensions are measured from production samples chosen at random and are subject to manufacturing tolerances. Karlgarin tolerances are nominally ± 0.001 ".

Note 2 Prototype dimensions for a given weight of rail vary considerably from country to country. The sizes listed are typical of numerous and widely-differing original Standards and are given to the nearest common major imperial dimension.

For 7mm scale, it can be seen that Karlgarin rails are scale size, whereas *for a close representation of the prototype sizes shown*, the typical alternative 00/H0 types of code 82 are approximately 40% undersize on the head width and 15% undersize on the foot width. 00/H0 types of code 100 are 25% undersize on the head and 15% undersize on the foot.