



Unique model railroad structure **Plan-Sets** designed in CAD.

708-945-8740

Most designs being offered are drawn in 1:24 scale, which has a scale name of “half inch.” In other words, 1 inch of a model equals 24 inches full (real) scale. See [1/2" Scale Chart](#) for the most popular large scale conversions of fractional inches. Below are the factors for conversions of popular modeling scales for measurements or when making copies of our 1:24 scale drawings with a printed scale of 1 = 1 .

1/2 SCALE CONVERSIONS TO OTHER POPULAR SCALES					
SCALE NAME	COMMON DESIGNATION	1 SCALE INCH EQUALS ³	COMMON MODELING	TO CONVERT 1:24 SCALE DRAWINGS WITH A COPIER	TO CONVERT 1:24 SCALE DIMENSIONS WITH A CALCULATOR
Gn15	1:8	8.47"	15" gauge trains*	increase to 283%	multiply by 2.833
1"	1:12	12"	Doll Houses	increase to 200%	multiply by 2.000
7/8"	1:13.7	13.55"	2' gauge trains*	increase to 177%	multiply by 1.771
Gn30	1:16.9	16.93"	2½' gauge trains*	increase to 142%	multiply by 1.418
16 mm	1:19.1	19.05"	2' gauge trains**	increase to 126%	multiply by 1.260
Fn3	1:20.3	20.32"	3' gauge trains*	increase to 118%	multiply by 1.181
G	1:22.5	22.22"	3 m gauge trains*	increase to 108%	multiply by 1.080
½"	1:24	24"	Doll Houses & trains	100%	multiply by 1.000
Gn48	1:27	27.09"	4' gauge trains*	reduce to 89%	multiply by .886
	1:29	29"	Large scale trains	reduce to 83%	multiply by .828
	1:30	30"	54 mm Military	reduce to 80%	multiply by .800
"	1:32	31.89"	US std. gauge trains*	reduce to 75%	multiply by .753
O	1:43	43.26"	trains (UK)	reduce to 55%	multiply by .555
O	1:48	48"	Doll House & trains** (USA)	reduce to 50%	multiply by .500
	1:54	54"	28 mm Military	reduce to 44%	multiply by .444
S	1:64	64.03"	Trains (3' gauge) & 25 mm Military	reduce to 37%	multiply by .375
OO	1:76.2	76.19"	Trains	reduce to 32%	multiply by .315
	1:80.5	80.5"	20 mm gammers	reduce to 30%	multiply by .298
HO	1:87.1	86.98"	Trains	reduce to 28%	multiply by .276
	1:107	107"	15 mm gammers	reduce to 22%	multiply by .224
TT	1:120	119.60"	Trains	reduce to 20%	multiply by .201
N	1:160	159.47"	Trains	reduce to 15%	multiply by .15
	1:161	161"	10 mm Military	reduce to 15%	multiply by .149
Z	1:220	220.79"	Trains	reduce to 11%	multiply by .109
³ "1 Scale Inch Equals" is based on US standard track gauge of 4'-8.5" comparison, unless otherwise noted.			*with 45mm (1.7717") G gauge track ** with 32mm (1.2598") O gauge track	1:48 scale .5" x .500 = .250" 1:29 scale: .5" x .828 = .414" 1:22.5 scale .5" x 1.080 = .540" 1:20.3 scale .5" x 1.181 = .590" 16 mm scale .5" x 1.260 = .630"	