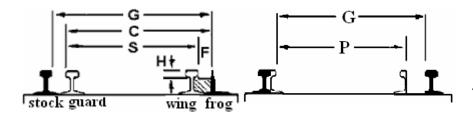


STANDARD

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Standard	S-3.2
Title	Scale Track, Standard Scale
Version	February 2010
Page	1 of 3



The Span, S, is derived by knowing S = C-F. C is the primary controlling dimension.

					Standa	rd S3.2	Guarde	d using	Target a	and Asy	mmetric	Imper	ial (ind	ch) Tole	rance			
Scale	Scale		G			С			S			F	Ò		Р			
Scale	Ratio	Gage at Frog			Check Gage			Span			Flangeway			Points			Н	Wheel
		Target	Plus	Minus	Target	Plus	Minus	Target	Plus	Minus	Target			Target	Plus	Minus	MIN	CODE
1"	1:12	4.752	0.060	0.002	4.586	0.011	0.004	4.366	0.004	0.002	0.218	0.002	0.065	4.561	0.004	0.004	0.140	1/2"
3/4"	1:16	3.502	0.038	0.002	3.353	0.014	0.004	3.172	0.004	0.002	0.179	0.002	0.046	3.325	0.004	0.004	0.094	13/32"
F	1:20.3	2.783	0.014	0.002	2.683	0.013	0.004	2.583	0.013	0.004	0.096	0.004	0.006	2.656	0.004	0.004	0.084	284
Fn3	1:20.3	1.772	0.010	0.006	1.652	0.010	0.004	1.550	0.005	0.015	0.115	0.002	0.023	1.628	0.004	0.004	0.066	250
LS	Varied					Large Scale Standards on Separate Page												
0	1:48	1.252	0.012	0.002	1.181	0.013	0.002	1.102	0.002	0.002	0.077	0.002	0.021	1.156	0.002	0.004	0.045	145
On3	1:48	0.752	0.012	0.002	0.707	0.010	0.002	0.654	0.002	0.002	0.051	0.002	0.018	0.685	0.002	0.004	0.026	116
On30	1:48	0.651	0.010	0.002	0.607	0.007	0.002	0.557	0.002	0.002	0.048	0.002	0.013	0.588	0.002	0.004	0.025	110
On2	1:48	0.502	0.009	0.002	0.457	0.007	0.002	0.407	0.002	0.002	0.048	0.002	0.012	0.438	0.002	0.004	0.025	110
S	1:64	0.885	0.010	0.002	0.841	0.007	0.002	0.791	0.002	0.002	0.048	0.002	0.013	0.822	0.002	0.004	0.025	110
Sn3	1:64	0.565	0.010	0.002	0.521	0.007	0.002	0.471	0.002	0.002	0.048	0.002	0.013	0.502	0.002	0.004	0.025	110
Sn2	1:64	0.415	0.008	0.002	0.379	0.004	0.002	0.339	0.002	0.002	0.038	0.002	0.008	0.363	0.002	0.004	0.023	88
00	1:76.2	0.752	0.009	0.002	0.707	0.007	0.002	0.657	0.002	0.002	0.048	0.002	0.012	0.688	0.002	0.004	0.025	110
НО	1:87.1	0.651	0.010	0.002	0.607	0.007	0.002	0.557	0.002	0.002	0.048	0.002	0.013	0.588	0.002	0.004	0.025	110
HOn3	1:87.1	0.415	0.008	0.002	0.379	0.004	0.002	0.339	0.002	0.002	0.038	0.002	0.008	0.363	0.002	0.004	0.023	88
HOn2	1:87.1	0.278	0.007	0.002	0.248	0.004	0.002	0.215	0.002	0.002	0.031	0.002	0.007	0.234	0.002	0.002	0.020	72
TT	1:120	0.473	0.006	0.002	0.439	0.003	0.002	0.403	0.002	0.002	0.034	0.002	0.005	0.426	0.002	0.002	0.023	79
TTn42	1:120	0.355	0.004	0.002	0.325	0.001	0.002	0.295	0.001	0.002	0.028	0.002	0.001	0.314	0.002	0.002	0.020	72
TTn3	1:120	0.302	0.004	0.002	0.272	0.002	0.002	0.242	0.002	0.002	0.028	0.002	0.002	0.260	0.002	0.002	0.020	72
N	1:160	0.355	0.004	0.002	0.325	0.001	0.002	0.295	0.001	0.002	0.028	0.002	0.001	0.314	0.002	0.002	0.020	72
Nn3	1:160	0.258	0.003	0.002	0.232	0.003	0.002	0.207	0.002	0.002	0.023	0.002	0.002	0.219	0.002	0.002	0.016	54
Nn2	1:160	0.179	0.002	0.002	0.152	0.006	0.002	0.127	0.002	0.002	0.023	0.002	0.004	0.136	0.002	0.002	0.016	54
Z	1:220	0.259	0.008	0.002	0.238	0.004	0.002	0.213	0.002	0.002	0.023	0.002	0.008	0.224	0.002	0.002	0.016	54

Track NOTES:

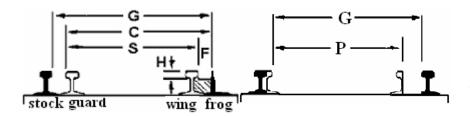
- 1. When wheels are used with deeper flanges see **STANDARD S3.3**.
- 2. The F limit applies only to the wing rail, and the C limit applies only to the guard rail. Both apply to the same rail only in special work such as a crossing.
- 3. For a full discussion of minimum radius, minimum turnout and radius equivalents of degrees of curvature. etc., see S-8 and RP-11.
- 4. Guard and wing rails shall be flared to a minimum dimension across the flared flangeway end of 1.5 x Fmax. Flare angle shall not exceed 10 degrees, and the Flare must disappear before reaching the working area of its rail.
- 5. These track dimensions are more restrictive with Gmax for guarded trackwork, for general tracksee STANDARD S3.1.
- 6. Metric measurements are found on page 2.
- 7. Please see S4.2 and RP-25 Wheel Contour for the appropriate wheel profile.
- 8. O-scale frog flangeway (F) is recommended with a target for code 145 wheels at 0.071".



STANDARD

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Standard	S-3.2
Title	Scale Track, Standard Scale
Version	February 2010
Page	2 of 3



The Span, S, is derived by knowing S = C-F. C is the primary controlling dimension.

					Standar	d S3.2	Guarde	ed using	Target	and As	ymmetri	c ME 7	ETRIC (mm) Tolerance												
Scale	Scale	le G				С		_	S			F			Р										
Scale	Ratio	Gag	e at Fi	rog	Check Gage			Span			Flangeway				Points	Н	Wheel								
		Target	Plus	Minus	Target			Target	Plus	Minus			Minus	Target	Plus	Minus	MIN	CODE							
1"	1:12	120.70	1.52	0.05	116.48	0.28	0.10	110.90	0.10	0.05	5.54	0.05	1.65	115.85	0.10	0.10	3.56	1/2"							
3/4"	1:16	88.95	0.97	0.05	85.17	0.36	0.10	80.57	0.10	0.05	4.55	0.05	1.17	84.46	0.10	0.10	2.39	13/32"							
F	1:20.3	70.69	0.36	0.05	68.15	0.33	0.10	65.61	0.33	0.10	2.44	0.10	0.15	67.46	0.10	0.10	2.13	284							
Fn3	1:20.3	45.00	0.25	0.15	42.00	0.25	0.10	39.37	0.13	0.38	2.92	0.05	0.58	41.35	0.10	0.10	1.68	250							
LS	Varied			•		Large Scale Standards on Separate Page																			
0	1:48	31.80	0.30	0.05	30.00	0.33	0.05	27.99	0.05	0.05	1.96	0.05	0.53	29.36	0.05	0.10	1.14	145							
On3	1:48	19.10	0.30	0.05	17.96	0.25	0.05	16.61	0.05	0.05	1.30	0.05	0.46	17.40	0.05	0.10	0.66	116							
On30	1:48	16.54	0.25	0.05	15.42	0.18	0.05	14.15	0.05	0.05	1.22	0.05	0.33	14.94	0.05	0.10	0.64	110							
On2	1:48	12.75	0.23	0.05	11.61	0.18	0.05	10.34	0.05	0.05	1.22	0.05	0.30	11.13	0.05	0.10	0.64	110							
S	1:64	22.48	0.25	0.05	21.36	0.18	0.05	20.09	0.05	0.05	1.22	0.05	0.33	20.88	0.05	0.10	0.64	110							
Sn3	1:64	14.35	0.25	0.05	13.23	0.18	0.05	11.96	0.05	0.05	1.22	0.05	0.33	12.75	0.05	0.10	0.64	110							
Sn2	1:64	10.54	0.20	0.05	9.63	0.10	0.05	8.61	0.05	0.05	0.97	0.05	0.20	9.22	0.05	0.10	0.58	88							
00	1:76.2	19.10	0.23	0.05	17.96	0.18	0.05	16.69	0.05	0.05	1.22	0.05	0.30	17.48	0.05	0.10	0.64	110							
НО	1:87.1	16.54	0.25	0.05	15.42	0.18	0.05	14.15	0.05	0.05	1.22	0.05	0.33	14.94	0.05	0.10	0.64	110							
HOn3	1:87.1	10.54	0.20	0.05	9.63	0.10	0.05	8.61	0.05	0.05	0.97	0.05	0.20	9.22	0.05	0.10	0.58	88							
HOn2	1:87.1	7.06	0.18	0.05	6.30	0.10	0.05	5.46	0.05	0.05	0.79	0.05	0.18	5.94	0.05	0.05	0.51	72							
TT	1:120	12.01	0.15	0.05	11.15	0.08	0.05	10.24	0.05	0.05	0.86	0.05	0.13	10.82	0.05	0.05	0.58	79							
TTn42	1:120	9.02	0.10	0.05	8.26	0.03	0.05	7.49	0.03	0.05	0.71	0.05	0.03	7.98	0.05	0.05	0.51	72							
TTn3	1:120	7.67	0.10	0.05	6.91	0.05	0.05	6.15	0.05	0.05	0.71	0.05	0.05	6.60	0.05	0.05	0.51	72							
N	1:160	9.02	0.10	0.05	8.26	0.03	0.05	7.49	0.03	0.05	0.71	0.05	0.03	7.98	0.05	0.05	0.51	72							
Nn3	1:160	6.55	0.08	0.05	5.89	0.08	0.05	5.26	0.05	0.05	0.58	0.05	0.05	5.56	0.05	0.05	0.41	54							
Nn2	1:160	4.55	0.05	0.05	3.86	0.15	0.05	3.23	0.05	0.05	0.58	0.05	0.10	3.45	0.05	0.05	0.41	54							
Z	1:220	6.58	0.20	0.05	6.05	0.10	0.05	5.41	0.05	0.05	0.58	0.05	0.20	5.69	0.05	0.05	0.41	54							

Track NOTES:

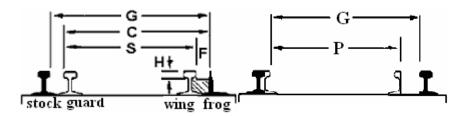
- 1. When wheels are used with deeper flanges see **STANDARD S3.3**.
- 2. The F limit applies only to the wing rail, and the C limit applies only to the guard rail. Both apply to the same rail only in special work such as a crossing.
- 3. For a full discussion of minimum radius, minimum turnout and radius equivalents of degrees of curvature. etc., see S-8 and RP-11.
- 4. Guard and wing rails shall be flared to a minimum dimension across the flared flangeway end of 1.5 x Fmax. Flare angle shall not exceed 10 degrees, and the Flare must disappear before reaching the working area of its rail.
- 5. These track dimensions are more restrictive with G_{max} for guarded trackwork, for general track see STANDARD S3.1.
- 6. O-scale frog flangeway (F) is recommended with a target for code 145 wheels at 1,8mm.
- 7. Imperial measurements are found on page 1.



STANDARD

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Standard	S-3.2
Title	Scale Track, Standard Scale
Version	February 2010
Page	3 of 3



The Span, S, is derived by knowing S = C-F. C is the primary controlling dimension.

				(Standard	I S3.2 G	Guarded (using Ta	rget and	l Asymm	etric Im	oerial ((inch) T	olerance	Э		
Scale	Scale	Scale		G		CS							F			н	
Ocale	Ratio	Ga	ge at Fr	og	Check Gage			Span			Flangeway			Points			
		Target	Plus	Minus	Target	Plus	Minus	Target	Plus	Minus	Target	Plus	Minus	Target	Plus	Minus	MIN
LS	Varied	1.772	0.010	0.006	1.652	0.010	0.004	1.550	0.005	0.015	0.115	0.002	0.023	1.629	0.003	0.005	0.118

					Standar	d S3.2	Guarded	using Ta	rget and	Asymm	etric <i>ME</i>	TRIC (<i>mm)</i> ⊤o	olerance			
Scale	Scale	lle G C S F							Н								
Scale	Ratio	Ga	ge at Fr	og	Check Gage			Span			Flangeway				•••		
		Target	Plus	Minus	Target	Plus	Minus	Target	Plus	Minus	Target	Plus	Minus	Target	Plus	Minus	MIN
LS	Varied	45.01	0.25	0.15	41.96	0.25	0.10	39.37	0.13	0.38	2.92	0.05	0.58	41.38	0.08	0.13	3.00

Track NOTES:

- 1) The term "LS" for "Large Scales" standards covers all common commercial scales running on LS 45mm gauge track (1:32, 1:29, 1:24, 1:22.5, and 1:20.3) without regard as to whether the trains are standard or narrow gauge.
- 2) Due to the inherent nature of large scale trains, the wheel and track standards for "Standard" (Sx.2) and "Deep Flange" (Sx.3) are identical except in terms of flange width and depth, thus the track H depth also is changed.
- 3) With regard to 1:20.3 (also designated "F" scale), trains built to that scale running on LS 45mm gauge track are also classified Fn3. Standards for Fn3 track and wheels are identical to those for LS, with exception given to more specific targets given for tread width and flange depth. Track standards for Fn3 are to be identical to those used for LS 45mm gauge.