

# Diesel Locomotive & Freight Car Grab rail & Stanchion Data

## *Handrails and Stanchions*

### *Non builder specific:*

Description	Prototype inches	H0 scale inches	H0 scale millimeters	Acknowledgement
Grabirons	.75	.009	.22	Ed Ryan
Coupler Release lever	1.0	.011	.29	Ed Ryan
Coupler Release lever clearance	2.0	.023	.58	Rick Blanchard
Switcher pilot grabs	1.0	.011	.29	Rick Blanchard
Switcher pilot grabs clearance	4.0	.046	1.17	Rick Blanchard

### *EMD:*

Description	Prototype inches	H0 scale inches	H0 scale millimeters	Acknowledgement
Longitudinal handrails EMD	1.25	.014	.36	Ed Ryan
Pressed Stanchion EMD SD60M - width	2.625	.030	.765	Warren Johnson
Pressed Stanchion EMD SD40T-2 - width	2.5	.029	.73	Warren Johnson
Pressed Stanchion EMD SD60M, SD40T-2 - depth	1.375	.016	.40	Warren Johnson
Pressed Stanchion EMD SD60M, SD40T-2 - length (short type)	42.5	.488	12.39	Warren Johnson
Pressed Stanchion EMD SD60M, SD40T-2 - length (long type)	52.0	.597	15.16	Warren Johnson
EMD handrail height from walkway to top of handrail	38.0	.436	11.08	Warren Johnson
Vertical handholds EMD cabs E, F, BL2	1.375	.016	.40	Ed Ryan
Vertical nose handholds EMD cabs	1.0	.011	.29	Ed Ryan

**GE:**

<i>Description</i>	<i>Prototype inches</i>	<i>H0 scale inches</i>	<i>H0 scale millimeters</i>	<i>Acknowledgement</i>
Longitudinal handrails GE circa 1960s/70s	1.5	.017	.44	Don Strack
Vertical section of GE handrails up to first stanchion where joined to (slid in to) longitudinal, circa 1960s/70s	1.25	.014	.36	Don Strack
Longitudinal handrails GE (eg) AC 4400	1.625	.0186	.47	Warren Johnson
GE Stanchion (C 40-8) - width	2.625	.030	.765	Warren Johnson
GE Stanchion (AC 4400) - width	2.50	.029	.73	Warren Johnson
GE Stanchion (AC 4400, C 40-8) - depth	1.25	.014	.365	Warren Johnson
GE Stanchion (AC 4400, C 40-8) - length	48.5	.557	14.14	Warren Johnson
GE handrail height from walkway to top of handrail	38.0	.436	11.08	Warren Johnson

**ALCO:**

<i>Description</i>	<i>Prototype inches</i>	<i>H0 scale inches</i>	<i>H0 scale millimeters</i>	<i>Acknowledgement</i>
Bar stanchions Alco (may be approximate)	2.5 x .75	.029 x .009	.73 x .22	Don Strack

**Pipes and Hoses:**

<i>Description</i>	<i>Prototype inches</i>	<i>H0 scale inches</i>	<i>H0 scale millimeters</i>	<i>Acknowledgement</i>
Brake line	1.875	.022	.55	Ed Ryan
Brake line hose	2.125 to 2.25	.024 to .026	.62 to .66	Ed Ryan
MU Hoses	1.0 to 1.375	.011 to .016	.29 to .40	Ed Ryan
Signal line	1.375	.016	.40	Ed Ryan
Signal line hose	2.0	.023	.58	Ed Ryan

Sand pipe	1.0 to 1.375	.011 to .016	.29 to .40	Ed Ryan
Sand hose	1.875	.022	.55	Ed Ryan
Speed Recorder cable	1.0 to 1.5	.011 to .017	.29 to .44	Ed Ryan
Brake cylinder pipe (on trucks)	.875	.010	.26	Ed Ryan
Air reservoir line	1.375	.016	.40	Ed Ryan
Horn air supply	.625	.007	.18	Ed Ryan

***Rivet Counter's sundries (all truly good stuff):***

***EMD:***

<i>Description</i>	<i>Prototype inches</i>	<i>H0 scale inches</i>	<i>H0 scale millimeters</i>	<i>Acknowledgement</i>
Hood door thickness EMD - yep, with paint (SD60)	.129	.0015	.04	Warren Johnson
SD40 radiator fan height (including guard 4.75")	10	.115	2.92	Warren Johnson
SD40 radiator fan and db fan guard height	4.75	.055	1.39	Warren Johnson
SD40 Dynamic brake fan height (including guard 4.75")	8.25	.095	2.41	Warren Johnson
SD40 Dynamic brake vent height	6.25	.072	1.82	Warren Johnson
SD40 Dynamic brake vent length	13	.149	3.79	Warren Johnson
SD40 Dynamic brake vent width	23	.264	6.71	Warren Johnson
'Q' fan - height at rim	7.75	.089	2.26	Warren Johnson
'Q' fan - height at centre	10.5	.121	3.06	Warren Johnson
SD40 radiator cooling fan hatch thickness (including 1/16" gasket)	0.25	.003	.07	Warren Johnson
GP9 numberboard access hatches (measured from SP #5623)	11.25 x 27.5	.13 x .316	3.28 x 8.00	Howard P Wise

**GE:**

Description	Prototype inches	H0 scale inches	H0 scale millimeters	Acknowledgement
Hood door thickness GE - includes paint! :-) (Dash 8 40 C)	.132	.0015	.04	Warren Johnson

**Freight Car Data**

<i>Description</i>	<i>Prototype inches</i>	<i>H0 scale inches</i>	<i>H0 scale millimeters</i>	<i>Acknowledgement</i>
Drop type grabs - minimum	.625	.007	.18	Eric Neubauer
Drop type grabs - more typical	.75	.009	.22	Eric Neubauer
Ladder rungs - minimum	.625	.007	.18	Allen Cain
Roof Corner Hand Holds - minimum	.625	.007	.18	Allen Cain
Side grab irons - minimum	.625	.007	.18	Allen Cain
End grab irons - minimum	.625	.007	.18	Allen Cain
Tank Car Safety Rail - pipe	1.25	.014	.36	Allen Cain
Tank Car safety rail - bar stock	.75	.009	.22	Allen Cain