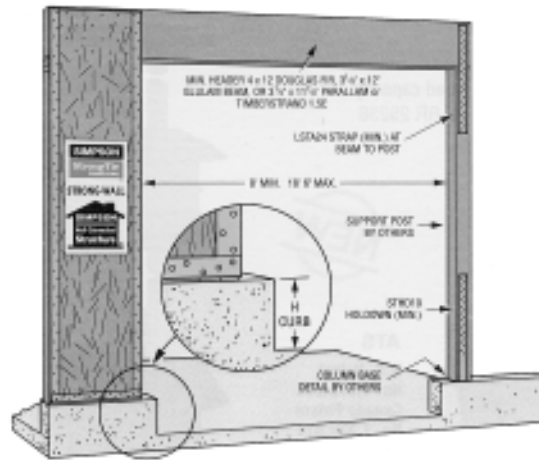


STRONG-WALL™ SHEARWALL

Detail 1 - Single Wall Garage Portal

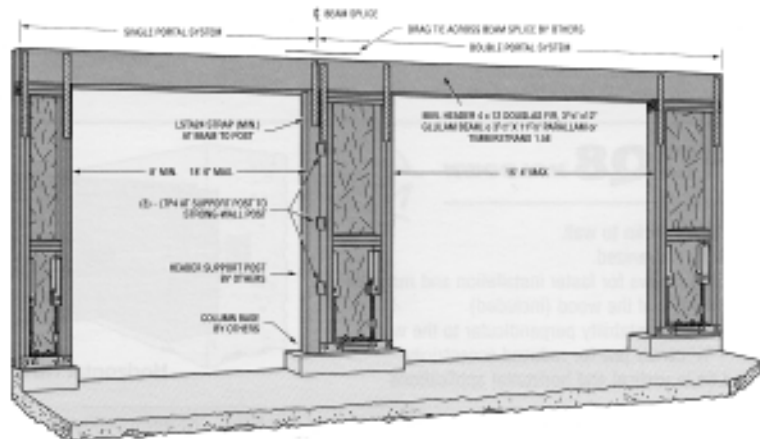
1. Beam to support post and support post to foundation uplift connectors may be reduced where justified by calculations.
2. This detail reflects lateral load requirements of a Single Wall Portal system. It is the designer's responsibility to provide a complete load path for all loads in accordance with the governing codes.
3. Longer header spans can be accommodated if larger headers are used such that equivalent stiffness is equal to or greater than that provided by the minimum header and maximum length indicated.
4. STHD10 and LSTA24 (*design by others*) are minimum requirements to achieve the allowable loads.



Detail 2 - Single and Double Wall Garage Portal

1. Beam to support post and support post to foundation uplift connectors may be reduced where justified by calculations.
2. This detail reflects lateral load requirements of a Single and Double Wall Portal system. It is the designer's responsibility to provide a complete load path for all loads in accordance with the governing codes.
3. System rating equals the sum of the Single and Double Wall Portal values.
4. Alternate Installation: A single piece header (*no camber*) may be substituted for the two headers shown above. The design rating for this condition may then be evaluated as the sum of the individual wall (*pier*) ratings. Individual wall (*pier*) ratings for this condition may be taken as half of their Double Wall Portal values.
5. Longer header spans can be accommodated if larger headers are used such that equivalent stiffness is equal to or greater than that provided by the minimum header and maximum length indicated.
6. LTP4 and LSTA24 (*design by others*) are minimum requirements to achieve the allowable loads.

Check our website
www.simpsonstrongwall.com
for structural details.



SINGLE WALL GARAGE PORTAL*

Model No.	W (in)	H (in)	T (in)	Number of Fasteners in Top of Wall	Number of Mud sill Anchors	Holdown Reaction ^a at Strength Limit States (lbs)	Holdown Reaction ^b at Allowable Load (lbs)	Holdown ² Anchor Bolts	Allowable Shear V Load (lbs) for Portal System	Drift at Allowable Shear V (in)	Allowable Shear V Load (lb/ft)	Max. Wall Weight (lbs)
SW16x7-4HD	16	78	4	8-SDS1/4x6	2-3/4	17100	3070	2-SSTB28	1460	.348	1095	90
SW16x7-6HD	16	78	5 3/4	8-SDS1/4x6	2-3/4	17100	3070	2-SSTB28	1460	.348	1095	112
SW16x8-4HD	16	90	4	8-SDS1/4x6	2-3/4	18940	1780	2-SSTB28	1245	.420	935	95
SW16x8-6HD	16	90	5 3/4	8-SDS1/4x6	2-3/4	18940	1780	2-SSTB28	1245	.420	935	120
SW22x7-4	22	78	4	10-SDS1/4x6	2-3/4	21700	5410	2-SSTB28	2190	.396	1195	95
SW22x7-6	22	78	5 3/4	10-SDS1/4x6	2-3/4	21700	5410	2-SSTB28	2190	.396	1195	117
SW22x8-4	22	90	4	10-SDS1/4x6	2-3/4	21160	3260	2-SSTB28	1995	.446	1090	105
SW22x8-6	22	90	5 3/4	10-SDS1/4x6	2-3/4	21160	3260	2-SSTB28	1995	.446	1090	130

1. For plywood shear panel, add "P" to model name (e.g. SW24x8P), and multiply the table loads by 0.88.
2. For two-pour applications, use the SSTB34.
3. Recommended header moisture content is 16% or less at time of installation.
4. A single wall garage portal system consists of 1 wall with a header spanning over

5. Recommended minimum 5/8" x 12" mudsill anchor.
6. Reactions are measured test values.
7. The minimum header sizes listed are the minimum required for lateral rigidity of the portal system. Larger headers may be required due to vertical loading.

The building designer shall verify that these details are consistent with the complete load path requirements of the structure.