





Seismic with Masonry Veneer



Wall Selection and Anchorage Classification:

GARAGE FRONT APPLICATIONS (7' to 8' Tall)

Seismic Design Category	Equivalent Wall-Bracing Length (ft)	Wall Model	Single-Story Application		1st Story of 2-Story Application	
			Base Material Under Wall		Base Material Under Wall	
			Concrete 	CMU 	Concrete 	CMU 
D ₀	4	SSW12x7 w/SSWP-KT	C	NS	NS	NS
		SSW15x7 w/SSWP-KT	C	C	D	NS
		SSW18x7 w/SSWP-KT	B	B	D	NS
		SSW12x8 w/SSWP-KT	D	NS	NS	NS
		SSW15x8 w/SSWP-KT	C	D	E	NS
		SSW18x8 w/SSWP-KT	B	C	D	NS
		SSW12x7	D	NS	NS	NS
		SSW15x7	C	D	E	NS
		SSW18x7	B	C	D	NS
		SSW12x8	D	NS	NS	NS
		SSW15x8	D	NS	NS	NS
		SSW18x8	C	C	D	NS
		SW16x7x4	C	C	D ³	NS
		SW16x7x6	C	C	D	NS
		SW22x7x4	A	A	B	NS
		SW22x7x6	A	A	B	B
		SW16x8x4	C	C	NS	NS
		SW16x8x6	C	C	NS	NS
	SW22x8x4	B	B	C	NS	
	SW22x8x6	B	B	C	C	
	SSW12x7 w/SSWP-KT	E	NS	NS	NS	
	SSW15x7 w/SSWP-KT	D	NS	NS	NS	
	SSW18x7 w/SSWP-KT	C	D	E	NS	
	SSW12x8 w/SSWP-KT	E	NS	NS	NS	
	SSW15x8 w/SSWP-KT	D	NS	NS	NS	
	SSW18x8 w/SSWP-KT	D	D	F	NS	
	SSW15x7	D	NS	NS	NS	
	SSW18x7	D	D	E	NS	
	SSW15x8	E	NS	NS	NS	
	SSW18x8	D	E	F	NS	
	SW16x7x4	D	NS	NS	NS	
	SW16x7x6	D	NS	NS	NS	
	SW22x7x4	B	B	C ³	NS	
	SW22x7x6	B	B	C	NS	
	SW16x8x4	D ³	NS	NS	NS	
	SW16x8x6	D	NS	NS	NS	
	SW22x8x4	B	B	NS	NS	
	SW22x8x6	B	B	NS	NS	
	SSW15x7 w/SSWP-KT	E	NS	NS	NS	
	SSW18x7 w/SSWP-KT	D	NS	F	NS	
	SSW15x8 w/SSWP-KT	E	NS	NS	NS	
	SSW18x8 w/SSWP-KT	E	NS	G	NS	
SSW15x7	E	NS	NS	NS		
SSW18x7	E	NS	G	NS		
SSW18x8	E	NS	NS	NS		
SW22x7x4	C ³	C ³	NS	NS		
SW22x7x6	C	C	NS	NS		
SW22x8x4	C ³	NS	NS	NS		
SW22x8x6	C	C	NS	NS		

1. See pages 46-69 for anchorage solutions.
 2. When using SSW_x7.4 wall model, solution for SSW_x8 wall model applies.
 3. Solid header required for this solution.
 4. NS = No solution available.
 5. See general notes for additional information.



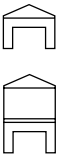
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			Concrete 	CMU 	Concrete 	CMU 
D ₁	4	SSW12x7 w/SSWP-KT	D	NS	NS	NS
		SSW15x7 w/SSWP-KT	C	D	E	NS
		SSW18x7 w/SSWP-KT	B	D	D	NS
		SSW12x8 w/SSWP-KT	D	NS	NS	NS
		SSW15x8 w/SSWP-KT	C	E	NS	NS
		SSW18x8 w/SSWP-KT	C	D	E	NS
		SSW12x7	D	NS	NS	NS
		SSW15x7	C	D	NS	NS
		SSW18x7	C	C	D	NS
		SSW15x8	D	NS	NS	NS
		SSW18x8	C	D	E	NS
		SW16x7x4	C	C	NS	NS
		SW16x7x6	C	C	NS	NS
		SW22x7x4	A	A	C	NS
		SW22x7x6	A	A	C	C
		SW16x8x4	C	NS	NS	NS
		SW16x8x6	C	C	NS	NS
		SW22x8x4	B	B	C ³	NS
	SW22x8x6	B	B	C	C	
	SSW12x7 w/SSWP-KT	E	NS	NS	NS	
	SSW15x7 w/SSWP-KT	D	NS	NS	NS	
	SSW18x7 w/SSWP-KT	D	E	F	NS	
	SSW15x8 w/SSWP-KT	E	NS	NS	NS	
	SSW18x8 w/SSWP-KT	D	F	F	NS	
	SSW15x7	E	NS	NS	NS	
	SSW18x7	D	D	F	NS	
	SSW15x8	E	NS	NS	NS	
	SSW18x8	D	NS	G	NS	
	SW16x7x4	D ³	NS	NS	NS	
	SW16x7x6	D	NS	NS	NS	
	SW22x7x4	B	B	NS	NS	
	SW22x7x6	B	B	NS	NS	
	SW22x8x4	C	C	NS	NS	
	SW22x8x6	C	C	NS	NS	
	SSW15x7 w/SSWP-KT	E	NS	NS	NS	
	SSW18x7 w/SSWP-KT	D	NS	G	NS	
SSW18x8 w/SSWP-KT	E	NS	NS	NS		
SSW18x7	E	NS	NS	NS		
SSW18x8	E	NS	NS	NS		
SW22x7x4	C ³	NS	NS	NS		
SW22x7x6	C	C	NS	NS		
SW22x8x4	C ³	NS	NS	NS		
SW22x8x6	C	NS	NS	NS		





1. See pages 46-69 for anchorage solutions.
2. When using SSW_x7.4 wall model, solution for SSW_x8 wall model applies.
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			Base Material Under Wall		Base Material Under Wall	
			Concrete 	CMU 	Concrete 	CMU 
D ₂	4	SSW12x7 w/SSWP-KT	D	NS	NS	NS
		SSW15x7 w/SSWP-KT	C	D	E	NS
		SSW18x7 w/SSWP-KT	C	C	D	NS
		SSW12x8 w/SSWP-KT	D	NS	NS	NS
		SSW15x8 w/SSWP-KT	D	NS	NS	NS
		SSW18x8 w/SSWP-KT	C	D	E	NS
		SSW12x7	E	NS	NS	NS
		SSW15x7	D	NS	NS	NS
		SSW18x7	C	C	E	NS
		SSW15x8	D	NS	NS	NS
		SSW18x8	C	D	E	NS
		SW16x7x4	C	NS	NS	NS
		SW16x7x6	C	C	NS	NS
		SW22x7x4	B	B	C ³	NS
		SW22x7x6	B	B	C	C
		SW16x8x4	D	NS	NS	NS
	SW16x8x6	D	D	NS	NS	
	SW22x8x4	B	B	C ³	NS	
	SW22x8x6	B	B	C	C	
	6	SSW15x7 w/SSWP-KT	D	NS	NS	NS
		SSW18x7 w/SSWP-KT	D	D	F	NS
		SSW15x8 w/SSWP-KT	E	NS	NS	NS
		SSW18x8 w/SSWP-KT	D	NS	G	NS
		SSW15x7	E	NS	NS	NS
		SSW18x7	D	NS	F	NS
		SSW18x8	E	NS	G	NS
		SW22x7x4	B	B	NS	NS
		SW22x7x6	B	B	NS	NS
		SW22x8x4	C	C	NS	NS
	SW22x8x6	C	C	NS	NS	
	8	SSW15x7 w/SSWP-KT	F	NS	NS	NS
		SSW18x7 w/SSWP-KT	E	NS	G	NS
SSW18x8 w/SSWP-KT		E	NS	NS	NS	
SSW18x7		E	NS	NS	NS	
SSW18x8		F	NS	NS	NS	
SW22x7x4		C ³	NS	NS	NS	
SW22x7x6		C	NS	NS	NS	
SW22x8x4		D ³	NS	NS	NS	
SW22x8x6	D	NS	NS	NS		

1. See pages 46-69 for anchorage solutions.
2. When using SSW_x7.4 wall model, solution for SSW_x8 wall model applies.
3. Solid header required for this solution.
4. NS = No solution available.
5. See general notes for additional information.

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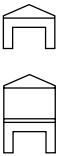
Seismic with Masonry Veneer







Wall Selection and Anchorage Classification:

GARAGE FRONT APPLICATIONS (9' to 11' Tall)

Seismic with Masonry Veneer







Seismic Design Category	Equivalent Wall-Bracing Length (ft)	Wall Model	Single-Story Application		1st Story of 2-Story Application	
			Base Material Under Wall		Base Material Under Wall	
			Concrete 	CMU 	Concrete 	CMU 
D ₀	4	SSW15x9	D	NS	NS	NS
		SSW18x9	C	D	E	NS
		SSW21x9	C	C	D	NS
		SSW15x10	D	NS	NS	NS
		SSW18x10	D	D	E	NS
		SSW21x10	C	C	E	NS
		SSW15x11	E	NS	NS	NS
		SSW18x11	D	D	F	NS
		SSW21x11	C	D	E	NS
	SSW24x11	C	C	D	E	
	6	SSW18x9	D	NS	G	NS
		SSW21x9	D	D	F	NS
		SSW24x9	C	D	E	NS
		SSW18x10	E	NS	NS	NS
		SSW21x10	D	E	F	NS
		SSW24x10	D	D	E	NS
		SSW18x11	E	NS	NS	NS
		SSW21x11	D	E	G	NS
	SSW24x11	D	D	F	NS	
	8	SSW18x9	F	NS	NS	NS
		SSW21x9	E	F	G	NS
		SSW24x9	D	E	F	NS
		SSW18x10	F	NS	NS	NS
		SSW21x10	E	NS	G	NS
SSW24x10		E	E	G	NS	
SSW18x11		G	NS	NS	NS	
SSW21x11	F	NS	NS	NS		
SSW24x11	E	F	G	NS		
D ₁	4	SSW15x9	D	NS	NS	NS
		SSW18x9	D	D	E	NS
		SSW21x9	C	C	E	NS
		SSW24x9	B	C	D	E
		SSW15x10	E	NS	NS	NS
		SSW18x10	D	D	F	NS
		SSW21x10	C	D	E	NS
		SSW24x10	C	C	D	E
		SSW18x11	D	E	F	NS
	SSW21x11	D	D	E	NS	
	SSW24x11	C	C	E	E	
	6	SSW18x9	E	NS	NS	NS
		SSW21x9	D	E	F	NS
		SSW24x9	D	D	F	NS
		SSW18x10	E	NS	NS	NS
		SSW21x10	E	E	G	NS
		SSW24x10	D	D	F	NS
		SSW18x11	F	NS	NS	NS
		SSW21x11	E	NS	G	NS
	SSW24x11	D	E	F	NS	
	8	SSW18x9	F	NS	NS	NS
		SSW21x9	E	NS	G	NS
		SSW24x9	E	E	G	NS
		SSW18x10	G	NS	NS	NS
SSW21x10		F	NS	NS	NS	
SSW24x10		E	F	G	NS	
SSW21x11		F	NS	NS	NS	
SSW24x11	E	F	H	NS		

See footnotes on page 41.

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Wall Selection and Anchorage Classification:

GARAGE FRONT APPLICATIONS (9' to 11' Tall)

Seismic Design Category	Equivalent Wall-Bracing Length (ft)	Wall Model	Single-Story Application		1st Story of 2-Story Application	
			Base Material Under Wall		Base Material Under Wall	
			Concrete 	CMU 	Concrete 	CMU 
D ₂	4	SSW15x9	E	NS	NS	NS
		SSW18x9	D	D	F	NS
		SSW21x9	C	D	E	NS
		SSW24x9	C	C	D	E
		SSW15x10	E	NS	NS	NS
		SSW18x10	D	E	F	NS
		SSW21x10	D	D	E	NS
		SSW24x10	C	C	E	E
		SSW18x11	D	NS	G	NS
		SSW21x11	D	D	F	NS
	SSW24x11	C	D	E	NS	
	6	SSW18x9	E	NS	NS	NS
		SSW21x9	D	E	G	NS
		SSW24x9	D	D	F	NS
		SSW18x10	F	NS	NS	NS
		SSW21x10	E	NS	G	NS
		SSW24x10	D	E	F	NS
		SSW18x11	F	NS	NS	NS
		SSW21x11	E	NS	NS	NS
	SSW24x11	E	E	G	NS	
	8	SSW18x9	F	NS	NS	NS
		SSW21x9	F	NS	H	NS
		SSW24x9	E	F	G	NS
		SSW18x10	G	NS	NS	NS
		SSW21x10	F	NS	NS	NS
		SSW24x10	E	F	G	NS
		SSW21x11	F	NS	NS	NS
		SSW24x11	F	NS	H	NS

1. See pages 46-69 for anchorage solutions.
2. For 11' wall heights, increase wall-bracing length as required by IRC R301.3.
3. NS = No solution available.
4. See general notes for additional information.

