Wall Bracing *Wind Solutions for Stemwall Foundations (Anchorage into Wall)*

SIMPSON Strong-Tie®

Equivalent Wall Bracing Length (ft)	Nominal Frame Width (ft)	Model No.	Minimum[11] Footing Width, W (in)	Minimum[11] Footing Depth, D (in)	Cast-in-Place Anchor[3]			Post Installed (Adhesive)[3, 7, 9] 5/8" Rod with SET-XP™/ SET/ AT			Post Installed (Mechanical)[3] 3/4" Dia. x 8½" Titen HD®[12]	
					Minimum[2, 6] End Distance (in)	Anchor[8] Assembly	Minimum Stem Width (in)	Minimum[2, 6] End Distance (in)	Minimum Embedment Depth - l_e (in)	Minimum Stem Width (in)	Minimum End Distance (in)	Minimum Stem Width (in)
SINGLE STORY												
8' Nominal Heights												
8	8	OMF69-8x8	18	14	4.5	OMFSL6-18	8	4.5	12	8	4.5	8
	10	OMF69-10x8									6	
	12	OMF69-12x8									7.5[4]	12
	16	OMF69-16x8						7.5[4]		10	7.5[5]	
12	8	OMF69-8x8	20	14	4.5	OMFSL6-18	8	6	12	8	7.5[4]	10
	10	OMF69-10x8						7.5[4]		10		
	12	OMF69-12x8				OMFSL9-18		4.5		8	NS	NS
	16	OMF99-16x8										
9' Nominal Heights												
8	8	OMF69-8x9	18	14	4.5	OMFSL6-18	8	4.5	12	8	6	8
	10	OMF69-10x9									7.5[4]	10
	12	OMF69-12x9						6				
	16	OMF69-16x9										
12	8	OMF69-8x9	20	14	4.5	OMFSL6-18	8	6	12	8	7.5[5]	12
	10	OMF69-10x9									7.5[4]	10
	12	OMF69-12x9						7.5[4]		10		
	16	OMF99-16x9				OMFSL9-18		4.5		8	7.5[5]	12
10' Nominal Heights												
8	8	OMF69-8x10	18	14	4.5	OMFSL6-18	8	4.5	12	8	6	8
	10	OMF69-10x10									4.5	
	12	OMF69-12x10									7.5[4]	10
	16	OMF69-16x10						6				
12	8	OMF99-8x10	20	14	4.5	OMFSL9-18	8	4.5	12	8	7.5[4]	10
	10	OMF99-10x10										
	12	OMF99-12x10										
	16	OMF99-16x10									7.5[5]	12
12' Nominal Heights												
8	8	OMF69-8x12	18	14	4.5	OMFSL6-18	8	4.5	12	8	7.5[4]	10
	10	OMF69-10x12									6	8
	12	OMF69-12x12										
	16	OMF69-16x12										
12	8	OMF99-8x12	20	14	4.5	OMFSL9-18	8	4.5	12	8	7.5[4]	10
	10	OMF99-10x12										
	12	OMF99-12x12										
	16	OMF99-16x12										
1ST STORY OF 2 STORIES OR 3 STORIES												
8' Nominal Heights												
8	8	OMF69-8x8	22	14	4.5	OMFSL6-18	8	7.5[4]	12	10	7.5[5]	12
	10	OMF69-10x8										
	12	OMF99-12x8				OMFSL9-18		6		8	NS	NS
	16	OMF99-16x8										
12	8	OMF99-8x8	26	14	4.5	OMFSL9-18	8	4.5	12	8	NS	NS
	10	OMF99-10x8										
	12	OMF99-12x8										
	16	OMF99-16x8						7.5[4]		10		
20	8	OMF1212-8x8	30	16	7.5[4]	OMFSL9-18	10	NS	NS	NS	NS	NS
	10	OMF99-10x8										
	12	OMF99-12x8			4.5	OMFSL9-18	8					
	16	OMF99-16x8										
9' Nominal Heights												
8	8	OMF69-8x9	22	14	4.5	OMFSL6-18	8	7.5[4]	12	10	7.5[5]	12
	10	OMF69-10x9										
	12	OMF99-12x9			4.5	OMFSL9-18		4.5		8	NS	NS
	16	OMF99-16x9										
12	8	OMF99-8x9	26	14	4.5	OMFSL9-18	8	4.5	12	8	NS	NS
	10	OMF99-10x9										
	12	OMF99-12x9										
	16	OMF99-16x9						7.5[4]		10		
20	8	OMF99-8x9	30	16	7.5[4]	OMFSL9-18	10	NS	NS	NS	NS	NS
	10	OMF99-10x9										
	12	OMF99-12x9			4.5		8					
	16	OMF99-16x9										
10' Nominal Heights												
8	8	OMF69-8x10	22	14	4.5	OMFSL6-18	8	7.5[4]	12	10	7.5[5]	12
	10	OMF69-10x10										
	12	OMF99-12x10			4.5	OMFSL9-18		4.5		8	NS	NS
	16	OMF99-16x10										
12	8	OMF99-8x10	26	14	4.5	OMFSL9-18	8	4.5	12	8	NS	NS
	10	OMF99-10x10										
	12	OMF99-12x10										
	16	OMF99-16x10						6				
20	8	OMF99-8x10	30	16	7.5[5]	OMFSL9-18	12	NS	NS	NS	NS	NS
	10	OMF99-10x10			7.5[4]		10					
	12	OMF99-12x10			4.5		8					
	16	OMF99-16x10										

See next page for footnotes

Wall Bracing *Wind Solutions for Stemwall Foundations (Anchorage into Wall)*

Equivalent Wall Bracing Length (ft)	Nominal Frame Width (ft)	Model No.	Minimum[11] Footing Width, W (in)	Minimum[11] Footing Depth, D (in)	Cast-in-Place Anchor[3]			Post Installed (Adhesive)[7,9] 5/8" Rod with SET-XP™/ SET/ AT			Post Installed (Mechanical)[3] 3/4" Dia. x 8½" Titen HD®	
					Minimum[2, 6] End Distance (in)	Anchor[8] Assembly	Minimum Stemwall Width (in)	Minimum[2, 6] End Distance (in)	Minimum Embedment Depth - l_e (in)	Minimum Stem Width (in)	Minimum End Distance (in)	Minimum Stem Width (in)
1ST STORY OF 2 STORIES OR 3 STORIES												
12' Nominal Heights												
8	8	OMF69-8x12	22	14	4.5	OMFSL6-18	8	7.5[4]	12	10	7.5[5]	12
	10	OMF69-10x12										
	12	OMF99-12x12			4.5	OMFSL9-18		4.5		8		
	16	OMF99-16x12										
12	8	OMF99-8x12	26	14	4.5	OMFSL9-18	8	4.5	12	8	NS	NS
	10	OMF99-10x12										
	12	OMF99-12x12										
	16	OMF99-16x12										
20	8	OMF129-8x12	30	16	7.5	OMFSL9-18	12	NS	NS	NS	NS	NS
	10	OMF129-10x12			7.5[4]		10					
	12	OMF1212-12x12										
	16	OMF1212-16x12			7.5		8					

1. See general notes for additional information.
2. See foundation details for typical minimum end distances and edge distances.
3. Cast-in-place solution requires 1¾" minimum edge distance. Post-installed solutions requires 1¾" minimum edge distance, and ⅝" dia. ASTM F1554 Gr. 36 or ASTM A36 threaded rods.
4. Solution requires 3" minimum edge distance.
5. Solution requires 5" minimum edge distance.
6. See page 38 for possible wall configuration for required anchorage end and edge distances.
7. Simpson Strong-Tie® SET-XP™ anchoring adhesive required for seismic solutions.
8. For short stemwalls, see stemwall anchorage to footing solutions.
9. For Simpson Strong-Tie® Acrylic-Tie® adhesive solutions, increase embedment depths shown by 4".
10. NS = No close-to-edge and end-distance solutions.
11. See pages 59–60 for footing and grade-beam size and reinforcing required.

Wall Bracing *Seismic Solutions for Stemwall Foundations (Anchorage into Wall)*

SIMPSON Strong-Tie®

Equivalent Wall Bracing Length (ft)	Nominal Frame Width (ft)	Model No.	Minimum[11] Footing Width, W (in)	Minimum[11] Footing Depth, D (in)	Cast-in-Place Anchor[3]			Post Installed (Adhesive)[3, 7, 9] 5/8" Rod with SET-XP™/ SET/ AT		
					Minimum[2, 6] End Distance (in)	Anchor[8] Assembly	Minimum Stem Width (in)	Minimum[2, 6] End Distance (in)	Minimum Embedment Depth - l_e (in)	Minimum Stem Width (in)
SINGLE STORY										
8' Nominal Heights										
8	8	OMF69-8x8	22	14	4.5	OMFSL6-18	8	NS	NS	NS
	10	OMF69-10x8								
	12	OMF99-12x8				OMFSL9-18		4.5	12	8
	16	OMF99-16x8						7.5[4]		10
12	8	OMF69-8x8	24	16	4.5	OMFSL6-18	8	NS	NS	NS
	10	OMF69-10x8								
	12	OMF99-12x8				OMFSL9-18		6	12	8
	16	OMF99-16x8						7.5[4]		10
9' Nominal Heights										
8	8	OMF69-8x9	22	14	4.5	OMFSL6-18	8	NS	NS	NS
	10	OMF69-10x9								
	12	OMF99-12x9				OMFSL9-18		4.5	12	8
	16	OMF99-16x9						6		
12	8	OMF69-8x9	24	16	4.5	OMFSL6-18	8	NS	NS	NS
	10	OMF69-10x9								
	12	OMF99-12x9				OMFSL9-18		6	12	8
	16	OMF99-16x9						7.5[4]		10
10' Nominal Heights										
8	8	OMF69-8x10	22	14	4.5	OMFSL6-18	8	NS	NS	NS
	10	OMF69-10x10								
	12	OMF99-12x10				OMFSL9-18		4.5	12	8
	16	OMF99-16x10								
12	8	OMF69-8x10	24	16	7.5[5]	OMFSL6-19	12	NS	NS	NS
	10	OMF99-10x10			4.5	OMFSL9-18	8	6	12	8
	12	OMF99-12x10								
	16	OMF912-16x10								
12' Nominal Heights										
8	8	OMF69-8x12	22	14	7.5[4]	OMFSL6-18	10	NS	NS	NS
	10	OMF69-10x12			4.5		8			
	12	OMF99-12x12				OMFSL9-18	10	4.5	12	8
	16	OMF99-16x12					8			
12	8	OMF99-8x12	24	16	7.5[4]	OMFSL9-18	10	7.5[4]	12	10
	10	OMF99-10x12			4.5		8	6		8
	12	OMF99-12x12								
	16	OMF99-16x12								
1ST STORY OF 2 STORIES OR 3 STORIES										
8' Nominal Heights										
8	8	OMF99-8x8	28	16	4.5	OMFSL9-18	8	7.5[4]	12	10
	10	OMF99-10x8								
	12	OMF99-12x8								
	16	OMF99-16x8						NS	NS	NS
12	8	OMF99-8x8	32	16	7.5[5]	OMFSL9-18	12	NS	NS	NS
	10	OMF99-10x8			7.5[4]		10			
	12	OMF99-12x8								
	16	OMF99-16x8								
9' Nominal Heights										
8	8	OMF99-8x9	28	16	4.5	OMFSL9-18	8	7.5[4]	12	10
	10	OMF99-10x9								
	12	OMF99-12x9								
	16	OMF912-16x9						NS	NS	NS
12	8	OMF99-8x9	32	16	7.5[5]	OMFSL9-18	12	NS	NS	NS
	10	OMF99-10x9			7.5[4]		10			
	12	OMF99-12x9								
	16	OMF99-16x9								
10' Nominal Heights										
8	8	OMF99-8x10	28	16	7.5[4]	OMFSL9-18	10	7.5[4]	12	10
	10	OMF99-10x10			4.5		8			
	12	OMF99-12x10								
	16	OMF912-16x10								
12	8	OMF99-8x10	36	16	7.5[5]	OMFSL9-18	12	NS	NS	NS
	10	OMF99-10x10			7.5[4]		10			
	12	OMF99-12x10								
	16	OMF99-16x10								
12' Nominal Heights										
8	8	OMF912-8x12	28	16	7.5[5]	OMFSL9-18	12	NS	NS	NS
	10	OMF99-10x12			4.5		8	7.5[4]	12	10
	12	OMF99-12x12								
	16	OMF99-16x12								
12	8	OMF99-8x12	36	16	7.5[5]	OMFSL9-18	12	NS	NS	NS
	10	OMF129-10x12								
	12	OMF129-12x12								
	16	OMF1212-16x12			7.5[4]		10			

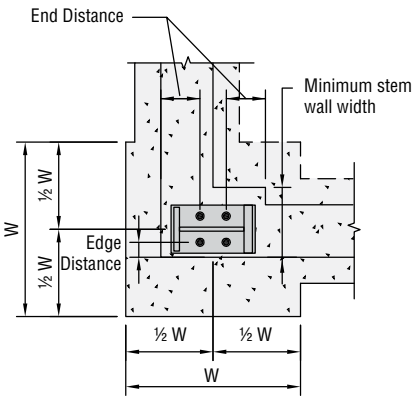
1. See general notes for additional information.
2. See foundation details for typical minimum end distances and edge distances.
3. Cast-in-place solution requires 1¼" minimum edge distance. Post-installed solutions requires 1¾" minimum edge distance, and ⅝" dia. ASTM F1554 Gr. 36 or ASTM A36 threaded rods.
4. Solution requires 3" minimum edge distance.
5. Solution requires 5" minimum edge distance.
6. See page 38 for possible wall configuration for required anchorage end and edge distances.
7. Simpson Strong-Tie® SET-XP™ anchoring adhesive required for seismic solutions.
8. For short stemwalls, see stemwall anchorage to footing solutions.
9. For Simpson Strong-Tie® Acrylic-Tie® adhesive solutions, increase embedment depths shown by 4".
10. NS = No close-to-edge and end-distance solutions.
11. See pages 59–60 for footing and grade-beam size and reinforcing required.

Wall Bracing *Solutions for Stemwall Foundations (Anchorage into Wall)*

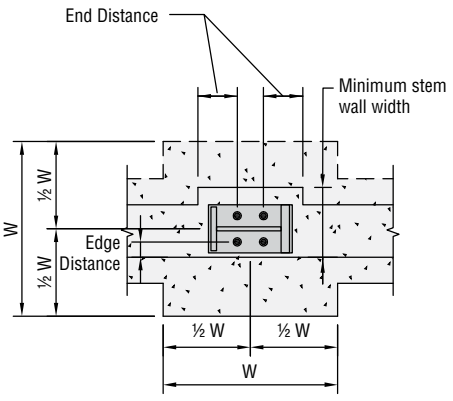
Equivalent Wall Bracing Length (ft)	Nominal Frame Width (ft)	Model No.	Minimum[10] Footing Width, W (in)	Minimum[10] Footing Depth, D (in)	Cast-in-Place Anchor [3]			Post Installed Solutions ⅝" Rod with SET-XP/SET/AT [5, 7]		
					Minimum[2, 9] End Distance (in)	Anchor[6] Assembly	Minimum Stem Width (in)	Minimum[2, 9] End Distance (in)	Minimum Embedment Depth - l_e (in)	Minimum Stem Width (in)
BALLOON FRAMING: Wind Solutions										
18' Nominal Heights										
8	8	OMF99-8x18	22	14	4.5	OMFSL9-18	8	4.5	12	8
	10	OMF912-10x18								
	12	OMF912-12x18								
	16	OMF912-16x18								
19' Nominal Heights										
8	8	OMF912-8x19	22	14	4.5	OMFSL9-18	8	4.5	12	8
	10	OMF912-10x19								
	12	OMF912-12x19								
	16	OMF129-16x19								
BALLOON FRAMING: Seismic Solutions										
18' Nominal Heights										
8	8	OMF129-8x18	32	16	4.5	OMFSL9-18	8	4.5	12	8
	10	OMF129-10x18								
	12	OMF1212-12x18								
	16	OMF1212-16x18								
12	8	OMF1512-8x18	38	16	7.5[4]	OMFSL9-18	10	NS	NS	NS
	10	OMF1512-10x18						7.5[4]	12	10
	12	OMF1512-12-18								
19' Nominal Heights										
8	8	OMF129-8x19	32	16	4.5	OMFSL9-18	8	4.5	12	8
	10	OMF1212-10x19								
	12	OMF1212-12x19								
	16	OMF1212-16x19								

1. See general notes for additional information.
2. See foundation details for typical minimum end distances and edge distances.
3. Cast-in-place solution requires 1¾" minimum edge distance. Post-installed solutions requires 1¾" minimum edge distance, and ⅝" dia. A36 threaded rods.
4. Solution requires 3" minimum edge distance.
5. Simpson Strong-Tie® SET-XP™ anchoring adhesive required for seismic solutions.
6. For short stemwalls, see stemwall anchorage into footing solutions.
7. For Simpson Strong-Tie® Acrylic-Tie® adhesive solutions, increase embedment depths shown by 4".
8. NS = No close-to-edge and end-distance solutions.
9. See page 38 for possible wall configuration for required anchorage end and edge distances.
10. See pages 59–60 for footing and grade-beam size and reinforcing required.

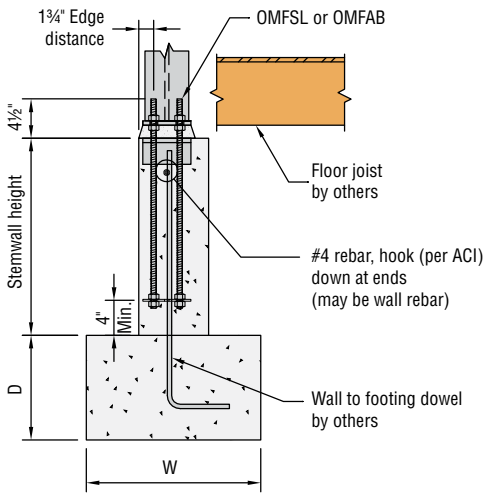
Wall Bracing *Solutions for Stemwall Foundations (Anchorage into Wall)*



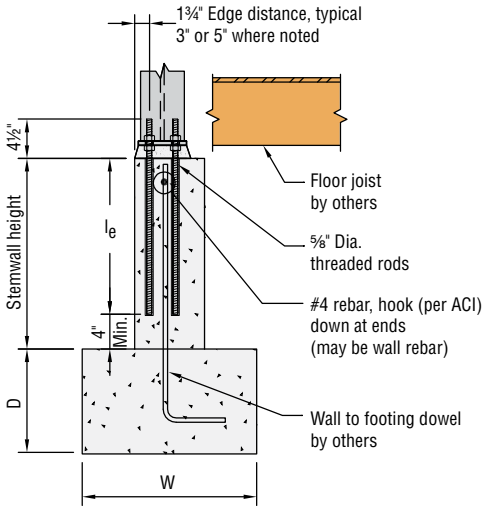
Plan View at Corner



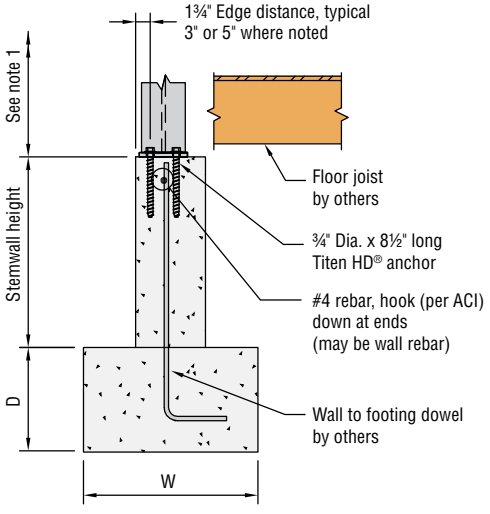
Plan View Away From Corner



Section View Cast-in-Place Application



Section View Adhesive Application



Section View Mechanical Application

Notes:
1. Non-shrink grout is not required for post-installed mechanical applications. However, top-of-concrete to top-of-field installed top plate distance needs to be adjusted to achieve the listed H_1 values in the catalog.
2. See detail 5/SF3 for top of wall adjustment.
3. See detail 6/SF2 for column height adjustment at base.

Note: Place moment frame anchorage before placing rebar.