

**Wall Bracing** *Wind Solutions for Slab-on-Grade Foundations*

Equivalent Wall Bracing Length (ft)	Nominal Frame Width (ft)	Model No.	Minimum <sup>11</sup> Footing Width, W (in)	Minimum <sup>11</sup> Footing Depth, D (in)	Cast-in-Place Anchor <sup>2</sup>		Post Installed (Adhesive) <sup>3</sup>		Post Installed (Mechanical) <sup>3</sup>
					Minimum <sup>2,6</sup> End Distance (in)	Anchor <sup>8</sup> Assembly	5/8" Rod with SET-XP™/SET/AT <sup>7,9</sup>	3/4" Dia. x 8 1/2" Titen HD <sup>12</sup>	
Min. End <sup>6</sup> Distance (in)	Embedment Depth - l <sub>e</sub> (in)	Minimum End <sup>6</sup> Distance (in)							
<b>SINGLE STORY</b>									
<b>8' Nominal Heights</b>									
8	8	OMF69-8x8	18	14	4.5	OMFAB6-24	4.5	12	4.5
	10	OMF69-10x8							6
	12	OMF69-12x8							6
	16	OMF69-16x8							6
12	8	OMF69-8x8	20	14	4.5	OMFAB6-24	4.5	12	6
	10	OMF69-10x8							4.5
	12	OMF69-12x8							6
	16	OMF69-16x8							6
<b>9' Nominal Heights</b>									
8	8	OMF69-8x9	18	14	4.5	OMFAB6-24	4.5	12	4.5
	10	OMF69-10x9							6
	12	OMF69-12x9							6
	16	OMF69-16x9							6
12	8	OMF69-8x9	20	14	4.5	OMFAB6-24	4.5	12	6
	10	OMF69-10x9							4.5
	12	OMF69-12x9							6
	16	OMF69-16x9							6
<b>10' Nominal Heights</b>									
8	8	OMF69-8x10	18	14	4.5	OMFAB6-24	4.5	12	4.5
	10	OMF69-10x10							6
	12	OMF69-12x10							6
	16	OMF69-16x10							6
12	8	OMF69-8x10	20	14	4.5	OMFAB6-24	4.5	12	6
	10	OMF69-10x10							4.5
	12	OMF69-12x10							6
	16	OMF69-16x10							6
<b>12' Nominal Heights</b>									
8	8	OMF69-8x12	18	14	4.5	OMFAB6-24	4.5	12	4.5
	10	OMF69-10x12							6
	12	OMF69-12x12							6
	16	OMF69-16x12							6
12	8	OMF69-8x12	20	14	4.5	OMFAB6-24	4.5	12	7.5 <sup>4</sup>
	10	OMF69-10x12							6
	12	OMF99-12x12							6
	16	OMF99-16x12							4.5
<b>1ST STORY OF 2 STORIES OR 3 STORIES</b>									
<b>8' Nominal Heights</b>									
8	8	OMF69-8x8	22	14	4.5	OMFAB6-24	4.5	12	6
	10	OMF69-10x8							6
	12	OMF99-12x8							4.5
	16	OMF99-16x8							4.5
12	8	OMF99-8x8	26	14	4.5	OMFAB9-24	4.5	12	6
	10	OMF99-10x8							6
	12	OMF99-12x8							6
	16	OMF99-16x8							7.5 <sup>4</sup>
20	8	OMF99-8x8	30	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12	11.5 <sup>5</sup>
	10	OMF99-10x8							11.5 <sup>5</sup>
	12	OMF99-12x8							11.5 <sup>5</sup>
	16	OMF99-16x8							11.5 <sup>5</sup>
<b>9' Nominal Heights</b>									
8	8	OMF69-8x9	22	14	4.5	OMFAB6-24	4.5	12	6
	10	OMF69-10x9							4.5
	12	OMF99-12x9							6
	16	OMF99-16x9							6
12	8	OMF99-8x9	26	14	4.5	OMFAB9-24	4.5	12	7.5 <sup>4</sup>
	10	OMF99-10x9							6
	12	OMF99-12x9							6
	16	OMF99-16x9							7.5 <sup>4</sup>
20	8	OMF99-8x9	30	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12	NS
	10	OMF99-10x9							11.5 <sup>5</sup>
	12	OMF99-12x9							11.5 <sup>5</sup>
	16	OMF99-16x9							11.5 <sup>5</sup>
<b>10' Nominal Heights</b>									
8	8	OMF69-8x10	22	14	4.5	OMFAB6-24	4.5	12	7.5 <sup>4</sup>
	10	OMF69-10x10							6
	12	OMF99-12x10							4.5
	16	OMF99-16x10							4.5
12	8	OMF99-8x10	26	14	4.5	OMFAB9-24	4.5	12	7.5 <sup>4</sup>
	10	OMF99-10x10							6
	12	OMF99-12x10							6
	16	OMF99-16x10							6
20	8	OMF99-8x10	30	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12	NS
	10	OMF99-10x10							11.5 <sup>5</sup>
	12	OMF99-12x10							11.5 <sup>5</sup>
	16	OMF99-16x10							11.5 <sup>5</sup>

See next page for footnotes

# Wall Bracing *Wind Solutions for Slab-on-Grade Foundations*

Strong-Tie®

Equivalent Wall Bracing Length (ft)	Nominal Frame Width (ft)	Model No.	Minimum Footing Width, W (in)	Minimum Footing Depth, D (in)	Cast-in-Place Anchor <sup>3</sup>		Post Installed (Adhesive) <sup>3</sup>		Post Installed (Mechanical)				
					Minimum End Distance (in)	Anchor Bolt <sup>8</sup> Assembly	<sup>5</sup> / <sub>8</sub> " Rod with SET-XP™/SET/AT <sup>7,9</sup>		<sup>3</sup> / <sub>4</sub> " Dia. x 8 <sup>1</sup> / <sub>2</sub> " Titen HD <sup>® 12</sup>				
							Min. End Distance (in)	Minimum Embedment Depth - l <sub>e</sub> (in)	Minimum End Distance (in)	Minimum Embedment Depth - l <sub>e</sub> (in)			
<b>1ST STORY OF 2 STORIES OR 3 STORIES</b>													
<b>12' Nominal Heights</b>													
8	8	OMF69-8x12	22	14	4.5	OMFAB6-24	4.5	12	7.5 <sup>4</sup>	6.25			
	10	OMF69-10x12							6				
	12	OMF99-12x12							4.5				
12	16	OMF99-16x12	26	14	4.5	OMFAB9-24	4.5	12	7.5 <sup>4</sup>	6.25			
	8	OMF99-8x12							6				
	10	OMF99-10x12											
20	12	OMF99-12x12	30	16	4.5	OMFAB9-24	NS	NS	NS	NS			
	16	OMF912-16x12							NS				
	8	OMF99-8x12							7.5 <sup>4</sup>		12	11.5 <sup>5</sup>	6.25
	10	OMF99-10x12											

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 1<sup>1</sup>/<sub>4</sub>" minimum end distance. Post-installed solutions requires 1<sup>3</sup>/<sub>4</sub>" minimum edge distance, and <sup>5</sup>/<sub>8</sub>" dia. 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 tall curb/stemwall select OMFSL anchor assembly with longer l<sub>e</sub> or use OMFSL extension kit to provide 8" minimum embedment into footing.
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. See page 50 for interior solutions.
11. See pages 59–60 for footing and grade-beam size and reinforcing required.
12. 6<sup>3</sup>/<sub>4</sub>" minimum embedment into concrete.

# Wall Bracing *Seismic Solutions for Slab-on-Grade Foundations*

Equivalent Wall Bracing Length (ft)	Nominal Frame Width (ft)	Model No.	Minimum <sup>11</sup> Footing Width, W (in)	Minimum <sup>11</sup> Footing Depth, D (in)	Cast-in-Place Anchor <sup>3</sup>		Post Installed (Adhesive) <sup>3</sup>	
					Minimum <sup>2, 6</sup> End Distance (in)	Anchor <sup>8</sup> Assembly	<sup>5</sup> / <sub>8</sub> " Rod with SET-XP™/SET/AT <sup>7, 9</sup>	Minimum <sup>6</sup> End Distance (in)
<b>SINGLE STORY</b>								
<b>8' Nominal Heights</b>								
8	8	OMF69-8x8	22	14	4.5	OMFSL6-24	6	12
	10	OMF69-10x8					7.5 <sup>4</sup>	
	12	OMF69-12x8					4.5	
	16	OMF99-16x8					OMFSL9-24	
12	8	OMF99-8x8	24	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12
	10	OMF99-10x8						
	12	OMF99-12x8						
	16	OMF99-16x8						
<b>9' Nominal Heights</b>								
8	8	OMF69-8x9	22	14	4.5	OMFSL6-24	6	12
	10	OMF69-10x9					5	
	12	OMF69-12x9						
	16	OMF99-16x9					OMFSL9-24	
12	8	OMF99-8x9	24	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12
	10	OMF99-10x9						
	12	OMF99-12x9						
	16	OMF99-16x9						
<b>10' Nominal Heights</b>								
8	8	OMF69-8x10	22	14	4.5	OMFSL6-24	6	12
	10	OMF69-10x10					4.5	
	12	OMF69-12x10						
	16	OMF99-16x10					OMFSL9-24	
12	8	OMF99-8x10	24	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12
	10	OMF99-10x10						
	12	OMF99-12x10						
	16	OMF912-16x10						
<b>12' Nominal Heights</b>								
8	8	OMF69-8x12	22	14	4.5	OMFSL6-24	7.5 <sup>4</sup>	12
	10	OMF69-10x12					6	
	12	OMF99-12x12						
	16	OMF99-16x12					OMFSL9-24	
12	8	OMF99-8x12	24	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12
	10	OMF99-10x12						
	12	OMF99-12x12						
	16	OMF99-16x12						
<b>1ST STORY OF 2 STORIES OR 3 STORIES</b>								
<b>8' Nominal Heights</b>								
8	8	OMF99-8x8	28	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12
	10	OMF99-10x8					NS	
	12	OMF99-12x8						
	16	OMF99-16x8					NS	
12	8	OMF99-8x8	32	16	4.5	OMFSL9-24	NS	NS
	10	OMF99-10x8						
	12	OMF99-12x8						
	16	OMF99-16x8						
20	8	OMF99-8x8	38	18	4.5	OMFSL9-24	NS	NS
	10	OMF99-10x8						
	12	OMF99-12x8						
	16	OMF912-16x8						
<b>9' Nominal Heights</b>								
8	8	OMF99-8x9	28	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12
	10	OMF99-10x9						
	12	OMF99-12x9						
	16	OMF99-16x9						
12	8	OMF99-8x9	32	16	4.5	OMFSL9-24	NS	NS
	10	OMF99-10x9						
	12	OMF99-12x9						
	16	OMF99-16x9						
20	8	OMF1212-8x9	38	18	7.5 <sup>4</sup>	OMFSL9-24	NS	NS
	10	OMF1212-10x9			7.5			
	12	OMF1212-12x9						
	16	OMF1212-16x9						
<b>10' Nominal Heights</b>								
8	8	OMF99-8x10	28	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12
	10	OMF99-10x10						
	12	OMF99-12x10						
	16	OMF99-16x10						
12	8	OMF99-8x10	36	16	4.5	OMFSL9-24	NS	NS
	10	OMF99-10x10						
	12	OMF99-12x10						
	16	OMF99-16x10						
20	8	OMF1212-8x10	38	18	7.5 <sup>4</sup>	OMFSL9-24	NS	NS
	10	OMF1212-10x10			7.5			
	12	OMF1212-12x10						
	16	OMF1212-16x10						

See next page for footnotes

# Wall Bracing *Seismic Solutions for Slab-on-Grade Foundations*

Equivalent Wall Bracing Length (ft)	Nominal Frame Width (ft)	Model No.	Minimum <sup>11</sup> Footing Width, W (in)	Minimum <sup>11</sup> Footing Depth, D (in)	Cast-in-Place Anchor <sup>3</sup>		Post Installed (Adhesive) <sup>3</sup>	
					Minimum <sup>2,6</sup> End Distance (in)	Anchor <sup>8</sup> Assembly	5/8" Rod with SET-XP™/SET/AT <sup>7,9</sup>	
							Minimum End <sup>6</sup> Distance (in)	Embedment Depth - l <sub>e</sub> (in)
<b>1ST STORY OF 2 STORIES OR 3 STORIES</b>								
<b>12' Nominal Heights</b>								
8	8	OMF99-8x12	28	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12
	10	OMF99-10x12						
	12	OMF99-12x12						
	16	OMF99-16x12						
12	8	OMF99-8x12	36	16	4.5	OMFSL9-24	NS	NS
	10	OMF129-10x12						
	12	OMF129-12x12			6			
	16	OMF1212-16x12						
20	8	OMF1212-8x12	44	18	7.5 <sup>4</sup>	OMFSL9-24	NS	NS
	10	OMF1212-10x12						
	12	OMF1212-12x12						
	16	OMF1512-16x12						

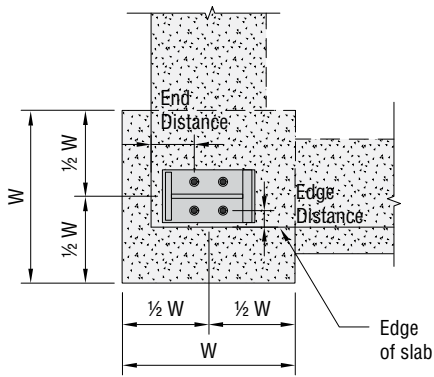
- See general notes for additional information.
- See foundation details for typical minimum end distances and edge distances.
- Cast-in-place solution requires 1¼" minimum edge distance. Post installed solutions requires 1¼" minimum edge distance, and 5/8" dia. A36 threaded rods.
- Solution requires 3" minimum edge distance.
- Solution requires 5" minimum edge distance.
- See page 38 for possible wall configuration for required anchorage end and edge distances.
- Simpson Strong-Tie® SET-XP™ anchoring adhesive required for seismic solutions.
- For tall curb/stemwall select OMFSL anchor assembly with longer l<sub>e</sub> or use OMFSL extension kit to provide 8" minimum embedment into footing.
- For Simpson Strong-Tie® Acrylic-Tie® adhesive solutions, increase embedment depths shown by 4".
- NS = No close to edge and end distance solutions. See page 50 for interior solutions.
- See pages 59–60 for footing and grade-beam size and reinforcing required.
- 6¼" minimum embedment into concrete.

# Wall Bracing Solutions for Slab-on-Grade Foundations

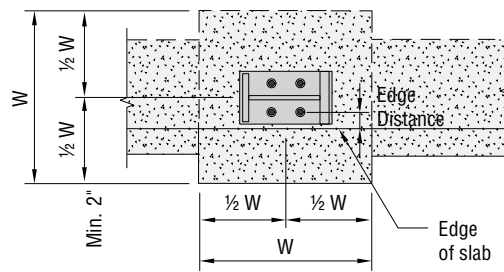
BALLOON FRAMING: Wind solutions										
Equivalent Wall Bracing Length (ft)	Nominal Frame Width (ft)	Model No.	Footing <sup>11</sup> Width, W (in)	Footing <sup>11</sup> Depth, D (in)	Cast-in-Place Anchor <sup>3</sup>		Post Installed Solutions <sup>3</sup>			
					Minimum <sup>2,10</sup> End Distance (in)	Anchor <sup>5,7</sup> Assembly	Minimum <sup>2,10</sup> End Distance (in)	Embedment Depth - l <sub>e</sub> (in)	Minimum <sup>2,10</sup> End Distance (in)	Embedment Depth - l <sub>e</sub> (in)
<b>18' Nominal Heights</b>										
8	8	OMF99-8x18	22	14	4.5	OMFAB9-24	4.5	12	6	6.25
	10	OMF912-10x18							4.5	
	12	OMF912-12x18							4.5	
	16	OMF912-16x18							4.5	
<b>19' Nominal Heights</b>										
8	8	OMF912-8x19	22	14	4.5	OMFAB9-24	4.5	12	6	6.25
	10	OMF912-10x19							4.5	
	12	OMF912-12x19							4.5	
	16	OMF129-16x19							4.5	
<b>BALLOON FRAMING: Seismic solutions</b>										
<b>18' Nominal Heights</b>										
8	8	OMF129-8x18	32	16	4.5	OMFSL9-24	4.5	12	11 <sup>5</sup>	6.25
	10	OMF129-10x18							7.5 <sup>4</sup>	
	12	OMF1212-12x18							6	
	16	OMF1212-16x18							6	
12	8	OMF1512-8x18	38	16	4.5	OMFSL9-24	7.5 <sup>4</sup>	12	NS	NS
	10	OMF1512-10x18							NS	NS
	12	OMF1512-12x18							NS	NS
<b>19' Nominal Heights</b>										
8	8	OMF129-8x19	32	16	4.5	OMFSL9-24	4.5	12	11 <sup>5</sup>	6.25
	10	OMF1212-10x19							7.5 <sup>4</sup>	
	12	OMF1212-12x19							6	
	16	OMF1212-16x19							6	
12	8	OMF1512-8x19	38	16	4.5	OMFSL9-24	NS	NS	NS	NS

- See general notes for additional information.
- See foundation details for typical minimum end distances and edge distances.
- Cast-in-place solution requires 1¼" minimum edge distance. Post installed solutions require 1¾" minimum edge distance, and ⅝" dia. A36 threaded rods.
- Solution requires 3" minimum edge distance.
- Solution requires 5" minimum edge distance.
- Simpson Strong-Tie® SET-XP™ anchoring adhesive required for seismic solutions.

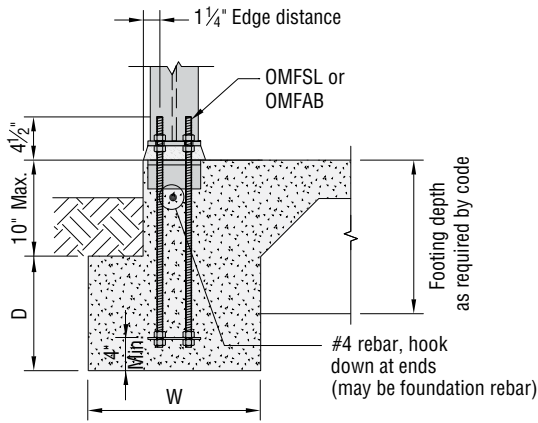
- Select OMFSL and OMFAB anchorage assemblies to provide minimum embedment of 8" into footing.
- For Simpson Strong-Tie® Acrylic-Tie® adhesive solutions, increase embedment depths shown by 4".
- NS = No solution.
- See page 38 for possible wall configuration for required anchorage end and edge distance.
- See pages 59–60 for footing and grade-beam size and reinforcing required.



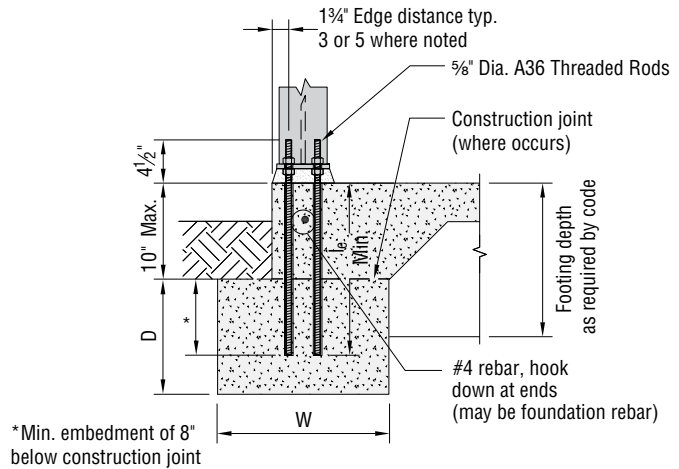
**Plan View  
At Corner**



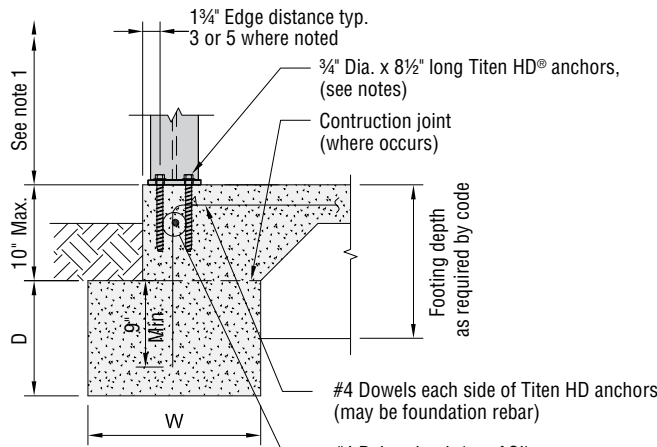
**Plan View  
Away From Corner**



**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 H1 values in the catalog. See detail 5/SF3 for top of wall adjustment. See detail 8/SF2 for bottom of column adjustment.
2. If construction joint occurs between slab and footing, use adhesive application or provide #4 dowels on each side of the Titen HD® anchors.

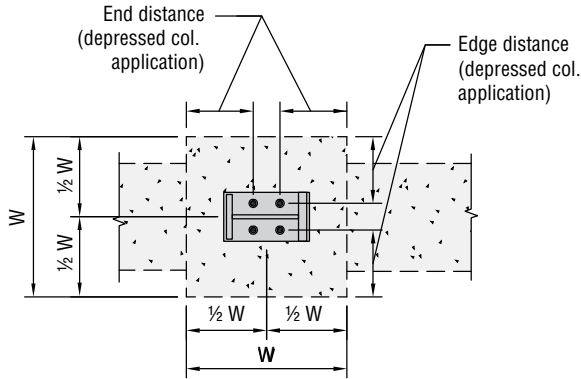
Note: Place moment frame anchorage before placing rebar.

# Wall Bracing *Interior Solutions for Slab-on-Grade Foundations*

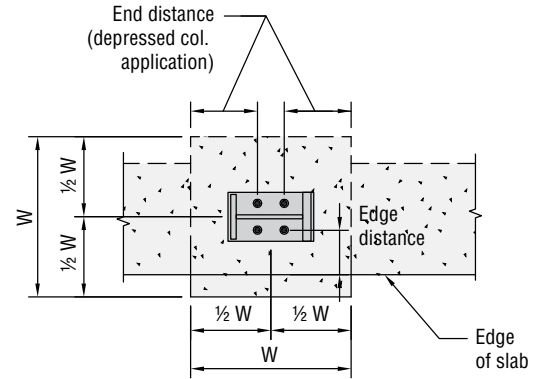
Column Type	Equivalent Wall Bracing Length (ft)	SET-XP™/SET/AT <sup>2,3,4</sup>			Titen HD <sup>6</sup> ¾" Dia. x 8½" Long	
		End (in)	Edge (in)	Embedment (in)	End (in)	Edge (in)
<b>SINGLE STORY (WIND SOLUTION)</b>						
C6	8	11.5	5	12	11.5	5
	12					
C9	8	11.5	5	12	11.5	5
	12					
C12	8	11.5	5	12	11.5	5
	12					
C15	8	11.5	5	12	11.5	5
	12					
<b>1ST STORY OF 2 OR 3 STORIES (WIND SOLUTION)</b>						
C6	8	11.5	5	12	11.5	7.5
	12		7.5		NS	NS
	20					
C9	8	11.5	5	12	11.5	7.5
	12		7.5			10.5
	20					
C12	8	11.5	5	12	11.5	7.5
	12		7.5			10.5
	20					
C15	8	11.5	5	12	11.5	7.5
	12		7.5			10.5
	20					
<b>SINGLE STORY (SEISMIC SOLUTION)</b>						
C6	8	11.5	5	12	11.5	5
	12		7.5		NS	NS
C9	8	11.5	5	12	11.5	5
	12		7.5			10.5
C12	8	11.5	5	12	11.5	5
	12		7.5			10.5
C15	8	11.5	5	12	11.5	5
	12		7.5			10.5
<b>1ST STORY OF 2 OR 3 STORIES (SEISMIC SOLUTION)</b>						
C6	8	11.5	11.5	12	NS	NS
	12	16	16			
	20	18	18			
C9	8	11.5	11.5	12	11.5	7.5
	12	16	16		NS	NS
	20	18	18			
C12	8	11.5	11.5	12	11.5	7.5
	12	16	16		NS	NS
	20	18	18			
C15	8	11.5	11.5	12	11.5	7.5
	12	16	16		NS	NS
	20	18	18			

1. See general notes for additional information.
2. Adhesive solution requires ¾" dia. A36 threaded rods.
3. Simpson Strong-Tie® SET-XP™ anchoring adhesive required for seismic solutions.
4. For Simpson Strong-Tie® Acrylic-Tie® adhesive solutions, increase embedment depths shown by 4".
5. See pages 59–60 for footing and grade-beam size and reinforcing required.
6. 6¼" minimum embedment into concrete.
7. NS = No close to edge and end-distance solutions.

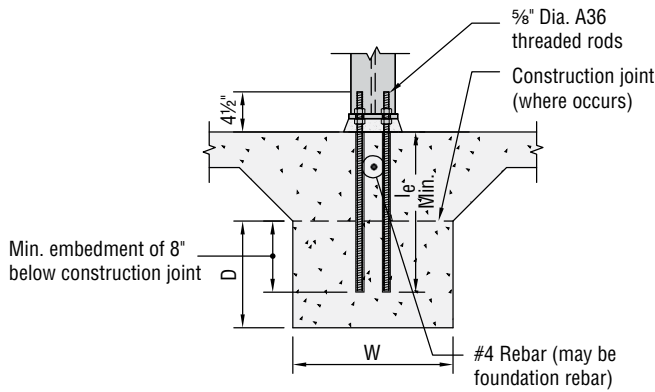
**Wall Bracing Interior Solutions for Slab-on-Grade Foundations**



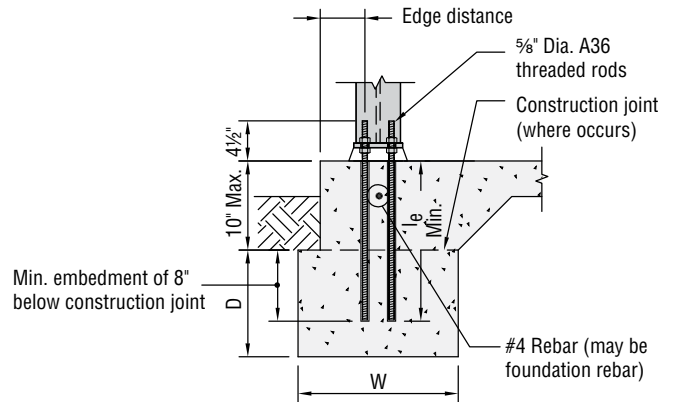
**Plan View  
Slab Interior**



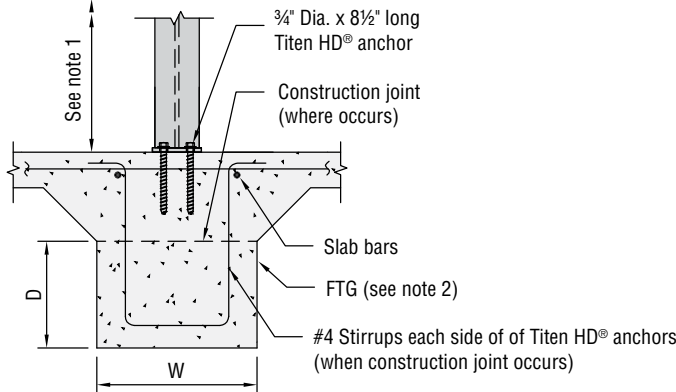
**Plan View  
at Slab Edge**



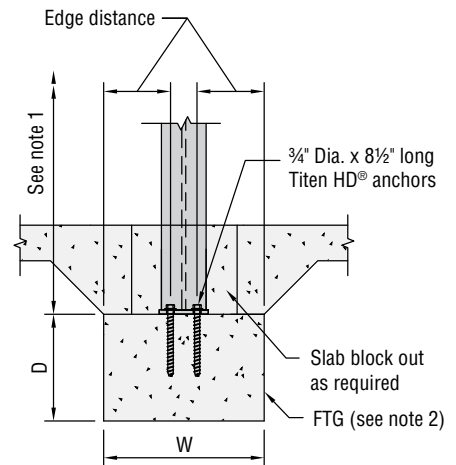
**Section View at Slab Interior  
Adhesive Application**



**Section View at Slab Edge  
Adhesive Application**



**Section View at Slab Interior  
Mechanical Application**



**Section View Depressed Column  
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<sub>1</sub> values in the catalog.
2. Adjust footing width, "W", as required to achieve required anchorage end and edge distance.