

OMFAB Anchorage Assembly *Tied Anchorage Solutions*

The OMFAB anchorage assembly with additional slab reinforcing is an economical alternative for applications where 2½" (or greater) edge distance exists.

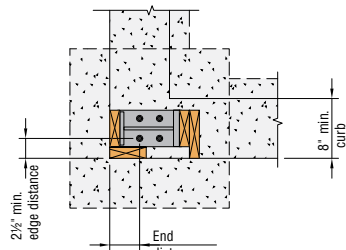
OMFAB Anchor Assemblies

Model No.	Anchor Rod		Embed. l _e (in)	Bearing Plate Size (in)
	Quantity	Diameter (in)		
6" Columns				
OMFAB6-14-KT	2	⅝	8½	⅜ x 3 x 5½
OMFAB6-18-KT	2	⅝	12½	⅜ x 3 x 5½
OMFAB6-24-KT	2	⅝	18½	⅜ x 3 x 5½
OMFAB6-30-KT	2	⅝	24½	⅜ x 3 x 5½
OMFAB6-36-KT	2	⅝	30½	⅜ x 3 x 5½
9", 12" and 15" Columns				
OMFAB9-18-KT	4	⅝	12½	⅜ x 5½ x 5½
OMFAB9-24-KT	4	⅝	18½	⅜ x 5½ x 5½
OMFAB9-24HS-KT	4	⅝	18½	⅜ x 6¾ x 6¾
OMFAB9-30-KT	4	⅝	24½	⅜ x 5½ x 5½
OMFAB9-30HS-KT	4	⅝	24½	⅜ x 6¾ x 6¾
OMFAB9-36-KT	4	⅝	30½	⅜ x 5½ x 5½
OMFAB9-36HS-KT	4	⅝	30½	⅜ x 6¾ x 6¾

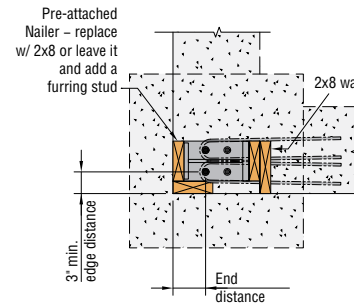
1. OMFAB-KT anchor assemblies are pre-engineered anchorage solutions for tension only.
2. For embedment depth, d_e, required. See tension anchorage solutions below.
3. Additional reinforcing ties or hairpins are required for shear when Strong Frame™ ordinary moment frame column is placed at edge of slab. See tied anchorage solutions for reinforcing requirements and allowable shear capacities.

Tension Anchorage Solutions for 2006 IBC Loads^{1,2,3,4,5}

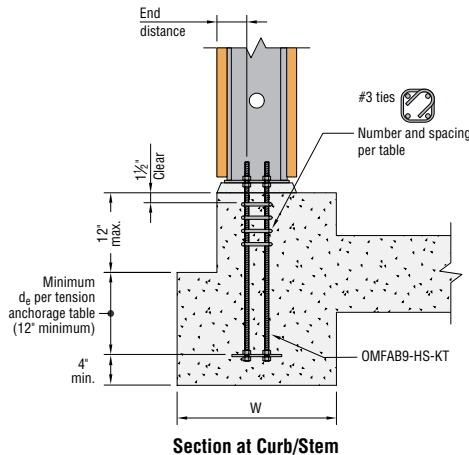
Column Size	Nominal Heights	Wind ¹				Seismic ²			
		Uncracked Concrete		Cracked Concrete		Uncracked Concrete		Cracked Concrete	
		W	d _e	W	d _e	W	d _e	W	d _e
C6	8'-12'			14	6	24	8	27	9
	14'-19'	12	6	12	6	15	6	18	6
C9	8'-12'	18	6	21	6	38	12	43	14
	14'-19'	12	6	14	6	26	8	30	9
C12	8'	23	7	26	8	46	15	53	17
	9'-12'	23	7	26	8	40	13	46	15
	14'-19'	16	6	19	6	34	11	39	12
C15	8'-9'	27	8	31	10	54	17	62	20
	10'-19'	24	7	28	9	40	13	46	15



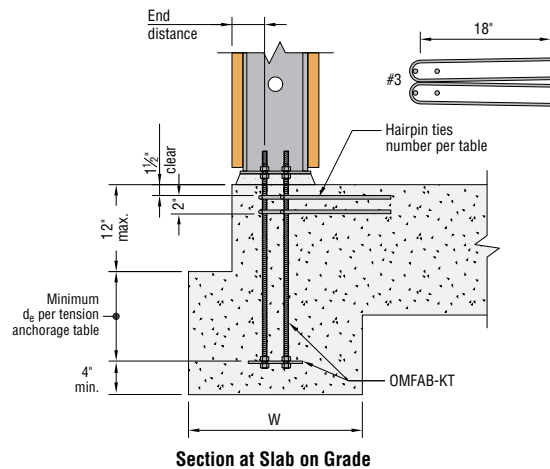
Plan View – Curb/Stemwall



Plan View – Slab on Grade



Section at Curb/Stem



Section at Slab on Grade

OMFAB Tied Anchorage Shear Capacities

Column Size	Stemwall/Curb Tied Anchorage Solutions			Slab on Grade Hairpin Solutions	
	Tie Size and Number	Tie Spacing	Allowable ASD Shear	Tie Size and Number	Allowable ASD Shear
C6	NS	NS	NA	2 - #3	5725
C9	3 - #3	3"	8345	2 - #3	11450
	4 - #3	2"	9735	—	—
C12	3 - #3	3"	8345	2 - #3	11450
	5 - #3	1.75"	13295	4 - #3	23690
C15	3 - #3	3"	8345	2 - #3	11450
	5 - #3	1.75"	13295	4 - #3	23690

1. Tied anchorage solutions require Strong Frame™ column to be located in from the edge of slab. For solutions with column at edge of slab, use OMFSL.
2. Ties or hairpins shall be ASTM A615 or A706, Grade 60 reinforcing. Ties are not supplied by Simpson Strong-Tie® and must be furnished by contractor.
3. Curb-tied anchorage solutions may also be used for slab on grade installations.
4. **Shaded** values require high-strength OMFAB-HS anchorage assemblies.
5. NS = No solution

1. Wind includes Seismic Design Category A and B
2. Seismic denotes Seismic Design Category C through F. Detached 1 and 2 family dwellings in SDC C may use wind solutions.
3. Anchorage solutions are also applicable to designs under the 2000 and 2003 IBC.
4. **Shaded** values require high strength threaded rods per ASTM A449.
5. Footing dimensions are the minimum required for concrete anchorage requirements only. The Designer must determine required footing size and reinforcing for other design limits.
6. For anchorage solutions where edge distances greater than 2½" exist, see the OMFAB anchorage assemblies below.
7. Uncracked values include Ψ_{c,N} = 1.25 factor per ACI 318-05 D5.2.6. Designer shall evaluate cracking at service load levels and select appropriate cracked or uncracked solution.
8. 2500 psi concrete minimum.