

Chapter 2 - Screen Rooms

Fastening Requirements - Ends of Roof Beams in Screen Rooms							Table 210a
Connecting to Posts w/ 1/8" Splice Plates using #12 SMS into Posts							
(Tabular Values are Screws per Side per End)	Attached Carrier Beam (by abbreviation)						
	4S	5S	6S	7S	8S	9S	10S
Post Group A	3	3	3	3	4	6	7
2"X4" Self-Mating Beam	2	3	3	3	4	6	7
Post Group B	2	3	3	3	4	6	7
2"X7" Self-Mating Beam	2	2	3	3	4	5	6
Post Group C	2	2	2	2	3	4	5
2"X9" Self-Mating Beam(H)	2	2	2	2	3	4	4

Fastening Requirements - Ends of Roof Beams in Screen Rooms							Table 210b
Connecting to Posts w/ 1/8" Splice Plates using #14 SMS into Posts							
(Tabular Values are Screws per Side per End)	Attached Carrier Beam (by abbreviation)						
	4S	5S	6S	7S	8S	9S	10S
Post Group A	2	3	3	3	4	6	7
2"X4" Self-Mating Beam	2	3	3	3	4	6	6
Post Group B	2	2	3	3	4	5	6
2"X7" Self-Mating Beam	2	2	2	3	3	5	5
Post Group C	2	2	2	2	3	4	4
2"X9" Self-Mating Beam(H)	2	2	2	2	2	3	4

Notes:

- 1) Post Groups shown below
- 2) Select Beam Fasteners from Table 209
- 3) Maintain a minimum spacing of 1" On Center of Screws, size plate to accommodate.

Updated Table 205 May 3, 2010: 1) added reinforcement requirements; AND, 2) changed Allowable Tributary Load Widths to reflect new computations on Rupture Depth (refer to website)

Concrete Slab Foundations & Monolithic Footings (Detail F2)			Table 205 Exposure B			
Total Height (In)	Bottom Width (In)	Reinforcement	Allowable Tributary Load Widths for Solid Roofs			
			Solid Roofs / Screen Walls			
			110 mph	120 mph	130 mph	140 mph
		4" Nominal Patio Slab (only)	14'- 11"	12'-7½"	10'-11¼"	9'- 8"
8	8	1 Each #5	19'-8¾"	16'-8¼"	14'-5½"	12'-9¼"
8	12	2 Each #5	20'-7¾"	17'-5½"	15'-1½"	13'-4¼"
12	12	2 Each #5	23'-4¼"	19'-9¼"	17'-1½"	15'-1½"
12	16	2 Each #5	25'-2¼"	21'-3¾"	18'-5½"	16'-3½"
16	16	2 Each #5	28'-9¾"	24'-4½"	21'-1½"	18'-7¾"

Continuous Perimeter Concrete Footings			Table 206 Exposure B			
Height (In)	Width (In)	Reinforcement	Allowable Tributary Load Widths for Solid Roofs			
			110 mph	120 mph	130 mph	140 mph
8	8	1 Each #5	5'-9¾"	4'- 11"	4'-3¼"	3'-9¼"
8	12	2 Each #5	8'-8¾"	7'-4½"	6'-4¾"	5'-7¾"
12	12	2 Each #5	13'- 1"	11'- 1"	9'-7¼"	8'-5¾"
12	16	2 Each #5	17'-5½"	14'-9¼"	12'-9½"	11'-3½"
16	16	2 Each #5	23'-3¼"	19'-8¼"	17'-0¾"	15'-0¾"