

Florida Building Officials and/or Building Departments

HISTORICAL PERSPECTIVE: When the AAF Guide was initially published in 2003, it had not yet been implemented into the Florida Building Code. It was then utilized as a "Master File" engineering document with "Letters of Authorization" and registered users placed upon a lookup list on this page. The use of these letters was then a pre-requisite for the use of the document.

However, since the publication is now a code approved prescriptive document, per Florida Building Code, Building, 2010, Sec 2002.4.1; FBCR, 2007, Sec 301.2.1.1.1, these letters are no longer issued, nor is it necessary for anyone to be registered with the AAF to use the guide. While the AAF still encourages users to register with us, the registered user list is maintained solely for the purpose of providing update information to current guide users as a convenience. Neither Florida law nor the building code nor the AAF requires users to be registered. The AAF Guide is no longer "Master File" engineering, but is a prescriptive document that has been adopted by the Florida Building Commission.

The AAF offers training in the use of the Guide but the training is not a pre-requisite to use.

In accordance with the building code, there are no additional or supplemental requirements. The AAF Guide does not fall under FS 489.113(9)b, but it does however fall under FS 489.113(9)c.

APPLICABLE FLORIDA STATUTE:

FS 489.113 (9) Qualifications for practice; restrictions.-

(c) Notwithstanding anything in this chapter or any other provision of law, a licensed engineer or architect is not required for the preparation or use of any design guide adopted by the Florida Building Commission as part of the building code pursuant to s. 553.73.

CURRENTLY APPLICABLE FLORIDA BUILDING CODE PROVISIONS:

2010 FBC {BUILDING} 2002.4.1

The following design guides shall be accepted as conforming to accepted engineering practices:

AAF Guide to Aluminum Construction in High Wind Areas.

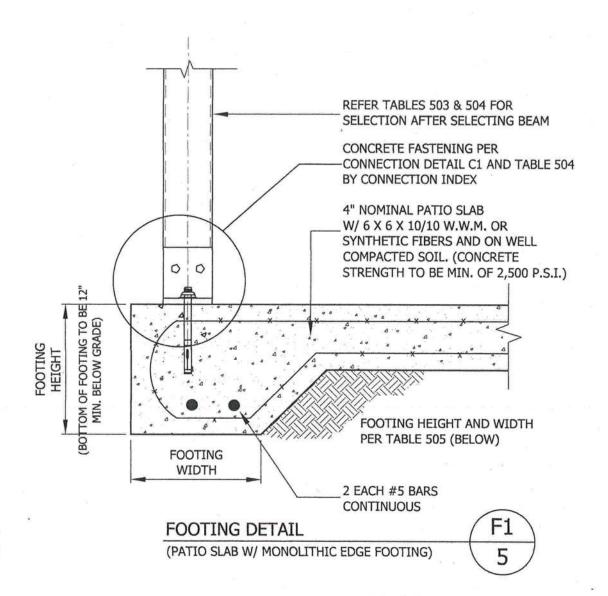
2010 FBC {RESIDENTIAL} R301.2.1.1.1 Design -

The following design guide shall be accepted as conforming to accepted engineering practices: AAF Guide to Aluminum Construction in High-Wind Areas.

2010 FBC {BUILDING} 1622.1.2

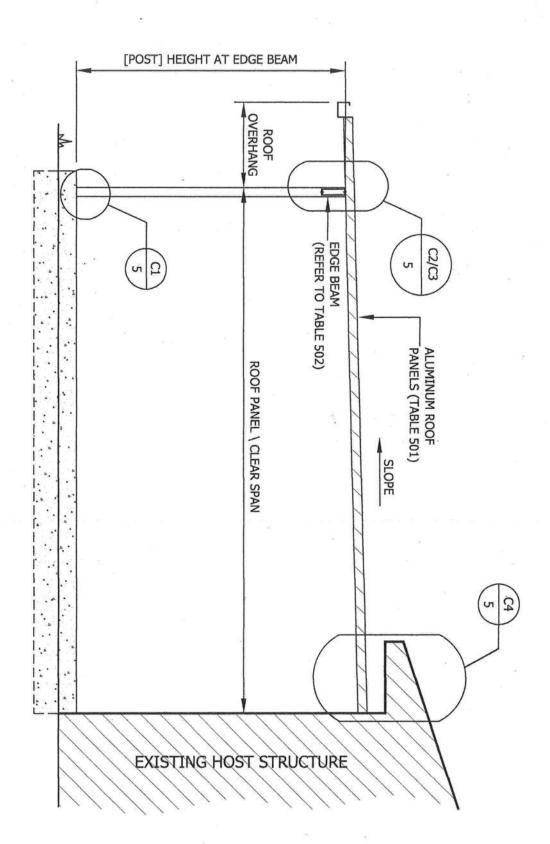
Design shall be based on such loads applied horizontally inward and outward to the walls with a shape factor of 1.3 and applied vertically upward and downward on the roof with a shape factor of 0.7.

Exception: Screen enclosures shall be permitted to be designed in accordance with the

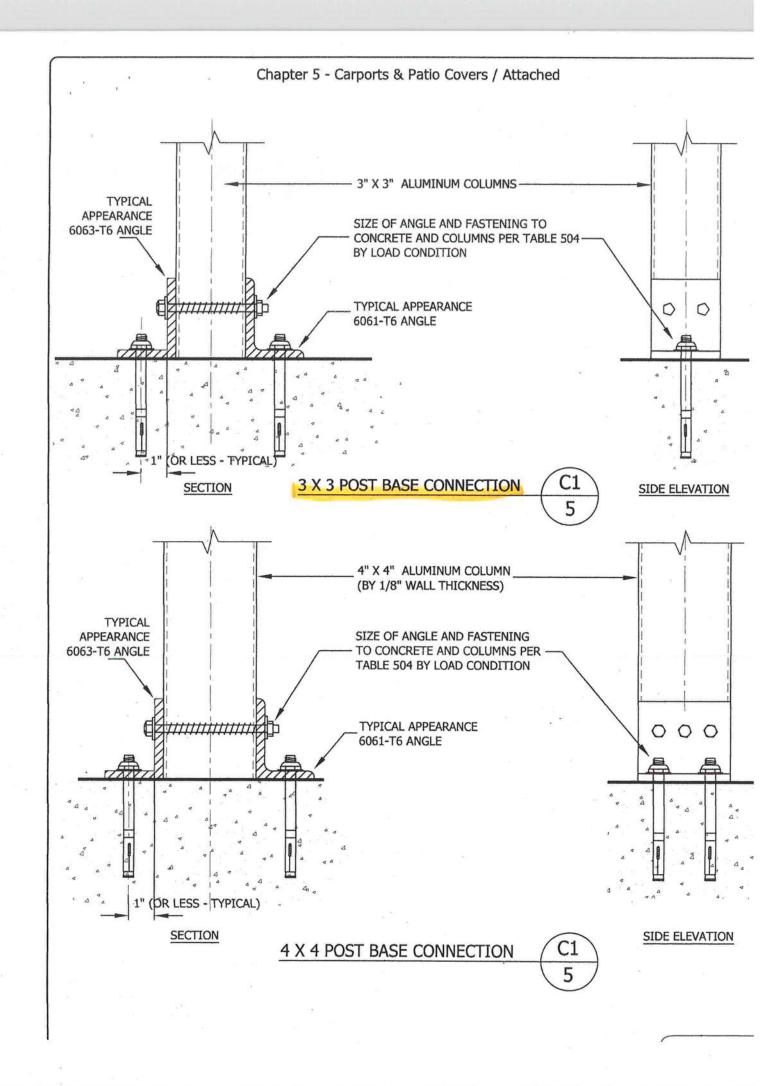




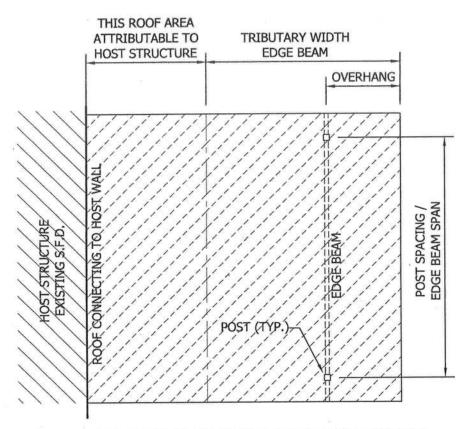
TYPICAL SECTION - ATTACHED COVER / CARPORT



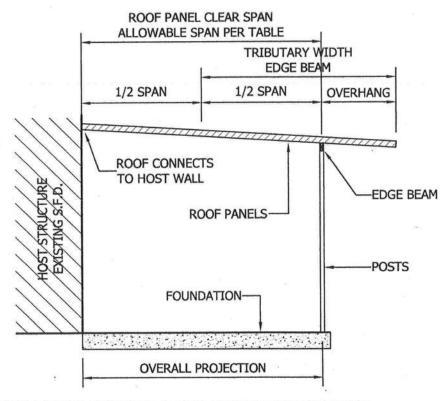
Chapter 5 - Carports & Patio Covers / Attached



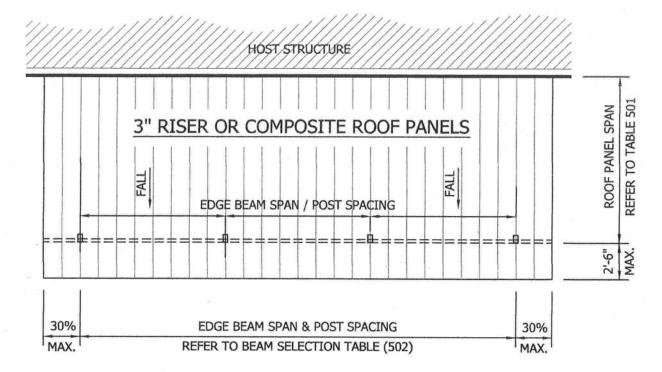
Chapter 5 - Carports & Patio Covers / Attached



SCHEMATIC PARTIAL PLAN / TRIBUTARY LOAD WIDTHS



SCHEMATIC SECTION / TRIBUTARY LOAD WIDTHS

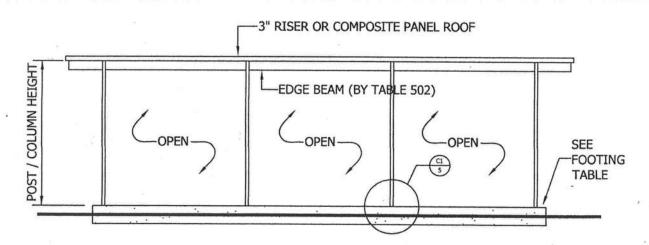


PLAN VIEW - ATTACHED COVER (SHED TYPE)

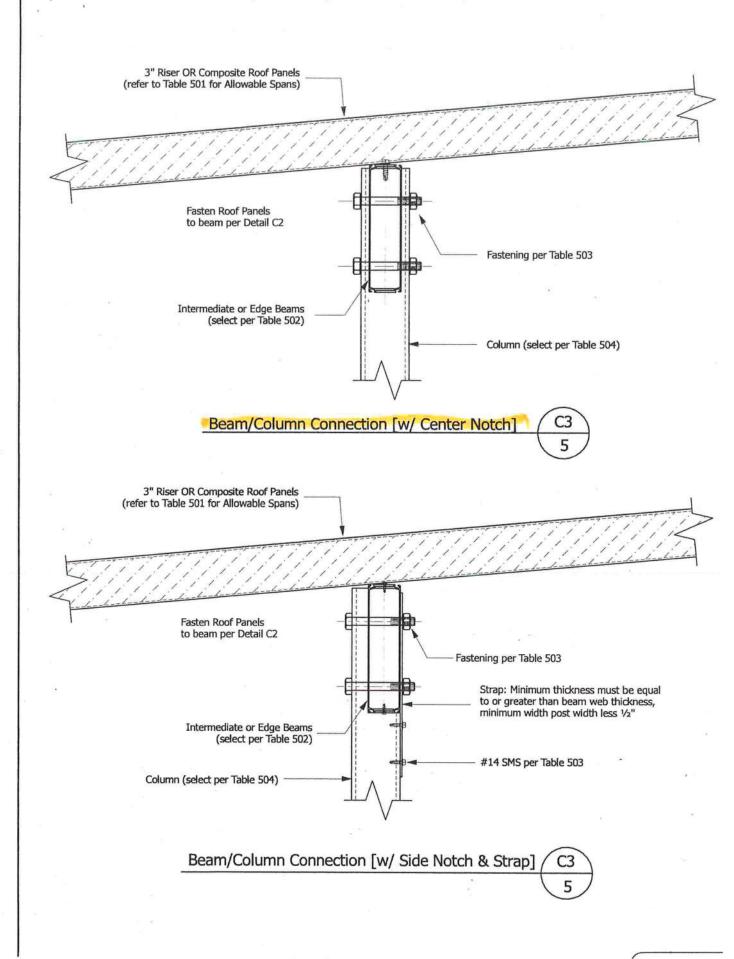
FOR ALLOWABLE SPANS, DETERMINE ROOF TYPE, THEN REFER TO: TABLE 501 FOR ROOF PANEL SPANS TABLE 502 FOR EDGE BEAMS

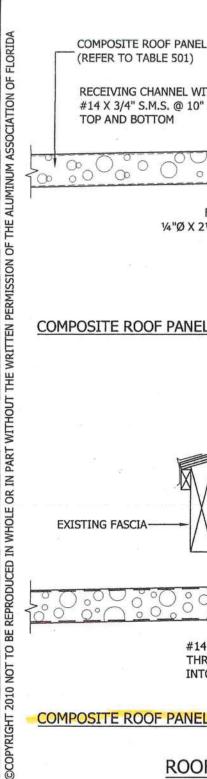
NOTES:

- 1) MAXIMUM EDGE BEAM CANTILEVER IS 30% OF ALLOWABLE SPAN FOR SELECTED EDGE BEAM
- 2) MAXIMUM ROOF PANEL CANTILEVER IS 2' 6"



FRONT ELEVATION - SHED TYPE ATTACHED COVER





(REFER TO TABLE 501)

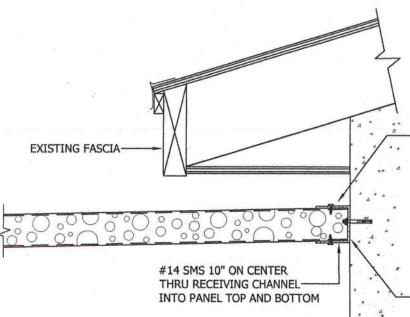
RECEIVING CHANNEL WITH #14 X 3/4" S.M.S. @ 10" O.C.

> FASTEN TO FASCIA WITH 14"Ø X 21/2" LAGS 12" ON CENTER ALONG HEADER

> > NOTE: FASCIA MUST BE 2" NOMINAL, 1" NOMINAL FASCIA MAY BE AUGMENTED TO 2".

COMPOSITE ROOF PANEL CONNECTION TO HOST FASCIA

EXISTING MASONRY OR WOOD FRAMED HOST STRUCTURE PERIMETER WALL



WHERE PROXIMITY OF HOST EAVE PROHIBITS INSTALLATION OF FASTENER INTO TOP OF PANEL, FASTEN PANELS @ BOTTOM W/ 6 EACH #14 SMS PER PANEL (THIS APPLIES ONLY TO MAXIMUM ROOF PANEL SPAN OF 12' AND A ROOF HEIGHT OF 8', ALL OTHER APPLICATIONS REQUIRE SITE SPECIFIC ENGINEERING)

EXISTING MASONRY OR WOOD FRAMED HOST STRUCTURE PERIMETER WALL

EXTRUDED OR MINIMUM .040 THICKNESS ROOF HEADER (A.K.A. RECEIVING CHANNEL) WITH 14"Ø X 21/2" LONG LAG SCREWS FOR LUMBER HOST 1 PER STUD - 3/8"Ø X 21/2" LONG MASONRY SCREWS FOR MASONRY HOST @ 16" O.C.

COMPOSITE ROOF PANEL CONNECTION TO HOST WALL

ROOF TO HOST CONNECTION DETAILS

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Span
Beam
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and/
t Spacing
Pos

Jecum	ana, Ima	ortaneo E	actor -	77	Conm	mant 0. C	ladding I	Saalaa Du				Mar J. Access	200
occup	ancy Impo	or carice r	actor = ,	//	Compo				essures V		rective v	vina Area	1
-	1	i -		7		The second second	-	CONTRACTOR OF THE PARTY OF THE	Roof Pane		- 11		1 11
	4	5	6	/	8	9	10	11	12	13	14	15	16
6	3T/A	3T/A	3H/A	5S/A	5S/A	5S/A	5S/A	5S/A	6S/A	6S/A	6S/A	6S/A	6S/
7	3H/A	5S/A	5S/A	5S/A	5S/A	6S/A	6S/A	6S/A	6S/A	7S/B	7S/B	7S/B	7S/
8	5S/A	5S/A	5S/A	6S/A	6S/A	6S/A	7S/A	7S/A	7S/B	8S/B	8S/C	8S/C	8S/
9	5S/A	6S/A	6S/A	6S/A	7S/A	7S/A	8S/A	8S/B	8S/B	8S/C	8S/C	8S/C	8S/
10	6S/A	6S/A	7S/A	7S/A	8S/A	8S/A	8S/B	8S/B	8S/C	8S/C	8S/D	8S/D	85/
11	6S/A	7S/A	7S/A	8S/A	8S/A	8S/B	8S/B	8S/C	8S/C	8S/D	8S/D	8S/D	85/
12	7S/A	7S/A	8S/A	8S/A	8S/B	8S/B	8S/C	8S/C	8S/D	8S/D	8S/D	8S/D	8S/
13	7S/A	8S/A	8S/A	8S/B	8S/B	8S/C	8S/C	8S/D	8S/D	8S/D	8S/D	9S/E	95/
14	8S/A	8S/A	8S/A	8S/B	8S/C	8S/C	85/D	8S/D	8S/D	9S/D	9S/E	9S/E	95/
15	8S/A	8S/A	8S/A	8S/B	8S/C	8S/C	8S/D	9S/D	9S/D	9S/E	9S/E	9S/E	95/
16	8S/A	8S/A	8S/B	8S/C	8S/C	8S/D	9S/D	9S/D	9S/D	9S/E	9S/E	10S/E	105
17	8S/A	8S/A	8S/B	8S/C	8S/D	9S/D	9S/D	9S/D	9S/E	9S/E	10S/E	10S/E	105
18	8S/A	8S/A	8S/B	8S/C	9S/D	9S/D	9S/D	9S/E	10S/E	10S/E	10S/E	10S/F	105
19	8S/A	8S/B	8S/C	9S/C	9S/D	9S/D	9S/D	10S/E	10S/E	10S/E	10S/F	10S/F	2-9
20	8S/A	8S/B	8S/C	9S/D	9S/D	9S/D	10S/E	10S/E	10S/E	10S/E	2-9/F	2-9/F	2-9
21	8S/A	8S/B	9S/C	9S/D	9S/D	10S/D	10S/E	10S/E	10S/E	2-9/F	2-9/F	2-9/G	2-9
22	8S/A	9S/B	9S/C	9S/D	10S/D	10S/E	10S/E	10S/E	2-9/E	2-9/F	2-9/G	2-9/G	2-10

Abbreviation Key: Numeric value indicates beam depth (inches)

A prefix of 2 indicates a double beam is required.

H = Hollow, S=Self-Mating, T=Hollow Tilt

An entry of "na" indicates site specific design required.

Occupa	ancy Impo	ortance F	actor = .	77	Compo	onent & C	Cladding (Design Pro	essures V	ary by Ff	fective V	Vind Area	4
									Roof Pane		TOCHTO T	TITO AT CO	
-	4	5	6	7	8	9	10	11	12	13	14	15	16
6	3T/A	3H/A	5S/A	5S/A	5S/A	- 5S/A	6S/A	6S/A	6S/B	6S/B	6S/C	7S/C	75/0
7	5S/A	5S/A	5S/A	6S/A	6S/A	6S/A	7S/B	7S/B	7S/C	7S/C	8S/C	8S/D	85/0
8	5S/A	5S/A	6S/A	6S/A	7S/A	7S/B	7S/B	8S/C	8S/C	8S/D	8S/D	8S/D	8S/E
9	6S/A	6S/A	7S/A	7S/A	8S/B	8S/B	8S/C	8S/C	8S/D	8S/D	8S/D	8S/D	8S/D
10	6S/A	7S/A	7S/A	8S/B	8S/B	8S/C	8S/C	8S/D	8S/D	8S/D	8S/D	8S/E	8S/E
11	7S/A	8S/A	8S/A	8S/B	8S/C	8S/C	8S/D	8S/D	8S/D	8S/D	8S/E	8S/E	8S/E
12	7S/A	8S/A	8S/B	8S/C	8S/C	8S/D	8S/D	8S/D	8S/D	8S/E	8S/E	9S/E	9S/E
13	8S/A	8S/A	8S/B	8S/C	8S/D	8S/D	8S/D	8S/D	9S/E	9S/E	9S/E	9S/E	9S/F
14	8S/A	8S/B	8S/C	8S/C	8S/D	8S/D	8S/D	9S/E	9S/E	9S/E	9S/E	9S/F	9S/F
15	8S/A	8S/B	8S/C	8S/D	8S/D	9S/D	9S/E	9S/E	9S/E	9S/E	9S/F	10S/F	105/0
16	8S/A	8S/B	8S/C	8S/D	9S/D	9S/D	9S/E	9S/E	9S/E	10S/F	10S/F	10S/G	105/0
17	8S/A	8S/C	8S/D	8S/D	9S/D	9S/E	9S/E	9S/E	10S/F	10S/F	10S/G	10S/G	na
18	8S/B	8S/C	8S/D	9S/D	9S/D	9S/E	10S/E	10S/E	10S/F	10S/G	10S/G	na	na
19	8S/B	8S/C	9S/D	9S/D	9S/E	10S/E	10S/E	10S/F	10S/F	2-9/G	na	na	na
20	8S/B	8S/C	9S/D	9S/D	10S/E	10S/E	10S/F	10S/F	2-9/G	2-9/G	na	na	na
21	8S/C	9S/D	9S/D	9S/E	10S/E	10S/E	10S/F	2-9/G	2-9/G	na	na	na	na
22	8S/C	9S/D	9S/D	10S/E	10S/E	10S/E	2-9/F	2-9/G	2-9/G	na	na	na	na

Abbreviation Key: Numeric value indicates beam depth (inches)

A prefix of 2 indicates a double beam is required.

H = Hollow, S=Self-Mating, T=Hollow Tilt

An entry of "na" indicates site specific design required.

Table 503 - Post to Beam Fastening		Minimum	Bolts R	Bolts Required
Beam / Section	(Abbr)	Post Size	# of Bolts	Diameter
2" X 3 or 4 Hollow or Snap	Varies	3"X3"X.060	2	3/8"
2"X4" Self-Mating Beam	2X4 SMB	3"X3"X.060	3	3/8"
2"X5" Self-Mating Beam	2X5 SMB	3"X3"X.060	3	1/2"
2"X6" Self-Mating Beam	2X6 SMB	3"X3"X.060	3	2/8"
2"X7" Self-Mating Beam	2X7 SMB	3"X3"X.060	4	2/8"
2"X8" Self-Mating Beam	2X8 SMB	3"X3"X.093	3	2/8
2"X9" Self-Mating Beam	2X9L SMB	3"X3"X.093	3	2/8"
2"X9" Self-Mating Beam	2X9H SMB	3"X3"X.093	4	1/2"
2"X10" Self-Mating Beam	2X10 SMB	3"X3"X.093	4	2/8"
Double 2"X9"(H) SMB	2-2X9	4"X4"X.125	2	3/4"
Double 2"X10" SMB	2-2X10	4"X4"X.125	m	18/8

			Size of Double	Size of Double	Angle to		
LOAD		Minimum	6063-T6 Angles	6061-T6 Angles	Column	Concrete	Assembl
INDEX #	Footing Size	Post	Required (Note #1)	Required (Note #1)	Bolts	Anchors	Capacit)
A	2' - 0" X 2' - 0" X 2' - 0" 3X3X,06 Fluted	3X3X,06 Fluted	2" X 3" X 5/16"	2" X 3" X 1/4"	2 Each 3/8" Dia	2 Each 3/8" Dia 2 Each 5/16" Dia X 2" Embedment	1,200
Ф	2' - 4" X 2' - 4" X 2' - 0" 3X3X.06 Fluted 2-1/2" X 2-1/2" X 3/8"	3X3X.06 Fluted	2-1/2" X 2-1/2" X 3/8"	2" X 3" X 1/4"	2 Each 1/2" Dia	2 Each 1/2" Dia 2 Each 3/8" Dia X 2" Embedment	1,629
U	2' -8" X 2' -8" X 2' -8"		3"X3"X,093" 2-1/2" X 2-1/2" X 1/2" Z 2-1/2" X 2-1/2" X 3/8"	2-1/2" X 2-1/2" X 3/8"		2 Each 1/2" Dia 2 Each 1/2" Dia X 3" Embedment	2,855
۵	3' - 0" X 3' - 0" X 3' - 0"		2-1/2" X 2-1/2" X 1/2"	2-1/2" X 2-1/2" X 3/8"	2 Each 5/8" Dia	3"X3"X.125" 2-1/2" X 2-1/2" X 1/2" 2-1/2" X 2-1/2" X 3/8" 2 Each 5/8" Dia 2 Each 5/8" Dia X 6" Embedment	4,050
ш	3' - 4" X 3' - 4" X 3' - 2"		2-1/2" X 2-1/2" X 5/8"	2-1/2" X 2-1/2" X 1/2"	3 Each 1/2" Dia	4"X 4"X.125" 2-1/2" X 2-1/2" X 5/8" 2-1/2" X 2-1/2" X 1/2" 3 Each 1/2" Dia 2 Each 3/4" Dia X 7" Embedment	5,272
ட	3' - 8" X 3' - 8" X 3' - 8"		Bury Column into Cond	Bury Column into Concrete per detail or Site Specific Engineering	pecific Engineering		7,394
ŋ	G 4'-0" X 4'-0" X 4'-0" 4"X4"X.125"	4"X4"X 125"	Bury Column into Cong	Bury Column into Concrete ner detail or Site Specific Engineering	necific Engineering		0 600

Note #1: Size of angle legs may vary, so long as, concrete anchors are within 1" of outside face of vertical angle leg and vertical leg can accomodate bolts specified. Length of angle is considered to be equal to the size of the column specified. Isolated Concrete Footing Note: Footings of 3' - 0" and above require reinforcement in top (and bottom).

llowable Roof Panel Spans for Attached Covers (Type	II)		Table 501
Table 501b 110 MPH Wind Zone Exposure B			
	Design	Panel/Skin	Thickness
Industry Standard Products	Load (psf)	0.024	0.032
3" Standing Seam (Riser) by 5 Rib	22.9	7'-0"	10'-0"
3" Composite (1 lb EPS Core X Skin Thickness)	22.1	10'-9"	12'-8"
4" Composite (1 lb EPS Core X Skin Thickness)	22.1	11'-11"	14'-1"
5" Composite (1 lb EPS Core X Skin Thickness)	22.1	13'-0"	14'-8"
6" Composite (1 lb EPS Core X Skin Thickness)	22.1	14'-1"	15'-4"
3" Composite (2 lb EPS Core X Skin Thickness)	22.1	12'-8"	13'-9"
4" Composite (2 lb EPS Core X Skin Thickness)	22.1	14'-1"	15'-1"
5" Composite (2 lb EPS Core X Skin Thickness)	22.1	14'-8"	16'-2"
6" Composite (2 lb EPS Core X Skin Thickness)	22.1	15'-4"	17'-3"
Table 501c 120 MPH Wind Zone Exposure B			
7/1	Design	Panel/Skin	Thickness
Industry Standard Products	Load (psf)	0.024	0.032
3" Standing Seam (Riser) by 5 Rib	27.3	6'-5"	9'-2"
3" Composite (1 lb EPS Core X Skin Thickness)	26.3	10'-2"	11'-11
4" Composite (1 lb EPS Core X Skin Thickness)	26.3	11'-3"	13'-3"
5" Composite (1 lb EPS Core X Skin Thickness)	26.3	12'-3"	13'-10'
6" Composite (1 lb EPS Core X Skin Thickness)	26.3	13'-4"	14'-5"
3" Composite (2 lb EPS Core X Skin Thickness)	26.3	11'-11"	12'-11
4" Composite (2 lb EPS Core X Skin Thickness)	26.3	13'-3"	14'-3"
5" Composite (2 lb EPS Core X Skin Thickness)	26.3	13'-10"	15'-3"
			16'-4"

Concrete Slab	Foundations & N	Monolithic Footings (De	tail F1)			Table 505 (Typ	e I)
Expos	sure B		Allo	wable Tributa	ary Load Widtl	hs for Solid R	oofs
Total	Bottom			Solid Ro	ofs / Partially	Enclosed	
Height (In)	Width (In)	Reinforcement*	110 mph	120 mph	130 mph	140 mph	146 mph
4" Nominal Patio Slab		2'- 11"	2'-51/2"	2'-11/4"	1'-93/4"	1'- 8"	
16	12	2 Each #5	7'-31/4"	6'-11/4"	5'-21/2"	4'- 6"	4'-11/2"
16	16	2 Each #5	8'-83/4"	7'- 4"	6'- 3"	5'-41/2"	4'-111/2"
20	16	2 Each #5	10'-73/4"	8'-111/2"	7'-71/2"	6'- 7"	6'-01/2"
24	16	2 Each #5	12'- 7"	10'- 7"	9'-01/4"	7'-91/4"	7'-13/4"
24	20	3 Each #5	15'- 0"	12'-71/4"	10'- 9"	9'-31/4"	8'-61/4"

Note: Maximum Post Spacing 10' - 0" for Concrete Slab with Monolithic Footings.

* (B) indicates bottom only, (T&B) indicate top and bottom

Concrete Slab	Foundations & N	Monolithic Footings (De	tail F1)			Table 505 (Typ	oe II)
Expos	sure B		Allo	wable Tributa	ry Load Widtl	hs for Solid R	oofs
Total	Bottom			Solid Ro	ofs / Partially	Enclosed	
Height (In)	Width (In)	Reinforcement*	110 mph	120 mph	130 mph	140 mph	146 mph
4" Nominal Patio Slab		3'-91/2"	3'-21/4"	2'-81/2"	2'- 4"	2'-13/4"	
16	12	2 Each #5	9'- 5"	7'- 11"	6'- 9"	5'-93/4"	5'-41/4"
16	16	2 Each #5	11'-3¾"	9'- 6"	8'- 1"	6'-113/4"	6'- 5"
20	16	2 Each #5	13'-9¾"	11'-71/4"	9'-10¾"	8'-61/4"	7'- 10"
24	20	2 Each #5	16'-3¾"	13'-81/2"	11'-8¼"	10'-03/4"	9'- 3"
24	20	3 Each #5	19'-51/4"	16'- 4"	13'- 11"	12'- 0"	11'-01/2"

Note: Maximum Post Spacing 10' - 0" for Concrete Slab with Monolithic Footings.

* (B) indicates bottom only, (T&B) indicate top and bottom

Continuous	Perimeter Concr	ete Footings (Detal F2)				Table 506 (Ty	peI)
E	Exposure B		Al	owable Solid	Roof Tribut	tary Load Wid	dths
Height (In)	Width (In)	Reinforcement*	110 mph	120 mph	130 mph	140 mph	146 mph
16	12	2 Each #5 (B)	5'- 6"	4'-71/2"	3'-11¼"	3'-43/4"	3'-11/2"
16	16	2 Each #5 (B)	7'- 4"	6'- 2"	5'- 3"	4'-61/2"	4'- 2"
20	16	2 Each #5 (B)	9'-21/4"	7'-81/2"	6'-63/4"	5'- 8"	5'-21/2"
20	20	3 Each #5 (B)	11'-5¾"	9'-73/4"	8'-21/2"	7'- 1"	6'-61/4"
24	20	2 Each #5 (T&B)	13'-91/4"	11'-6¾"	9'-101/4"	8'- 6"	7'-93/4"
24	24	2 Each #5 (T&B)	16'-61/4"	13'-101/2"	11'- 10"	10'-21/2"	9'-41/2"
30	24	2 Each #5 (T&B)	20'-73/4"	17'-41/4"	14'-91/2"	12'- 9"	11'-83/4"

^{* (}B) indicates bottom only, (T&B) indicate top and bottom

Continuous	Perimeter Concr	ete Footings (Detal F2))			Table 506 (Ty	peII)
E	Exposure B		All	owable Solid	Roof Tribut	tary Load Wi	dths
Height (In)	Width (In)	Reinforcement*	110 mph	120 mph	130 mph	140 mph	146 mph
16	12	2 Each #5 (B)	7'-13/4"	5'-11¾"	5'-11/4"	4'-43/4"	4'-01/2"
16	16	2 Each #5 (B)	9'-61/4"	7'-11¾"	6'-93/4"	5'-101/2"	5'-43/4"
20	16	, 2 Each #5 (B)	11'-10¾"	9'-11¾"	8'-61/4"	7'- 4"	6'- 9"
20	20	3 Each #5 (B)	14'-101/2"	12'- 6"	10'-73/4"	9'-21/4"	8'-51/4"
24	20	2 Each #5 (T&B)	17'- 10"	14'-11¾"	12'-91/4"	11'-01/4"	10'-11/2"
24	24	2 Each #5 (T&B)	21'- 5"	17'-113/4"	15'- 4"	13'-21/2"	12'-13/4"
30	24 bottom only, (T&E	2 Each #5 (T&B)	26'-91/4"	22'- 6"	19'- 2"	16'-61/4"	15'-21/4"

