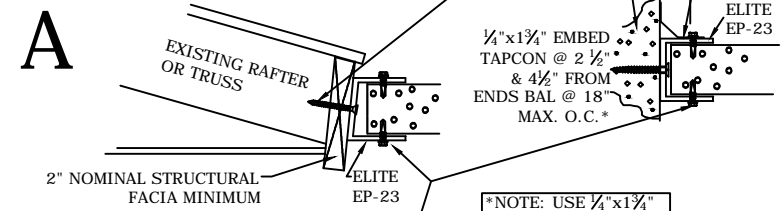


ELITE 2000 POST AND BEAM OPEN CARPORT MASTER PLAN SHEET

CONNECTION TO STRUCTURE: WOOD OR CONCRETE

1/2"x3" LAG BOLT @ 10" O.C. & ENDS TO 2" SOUND FASCIA. ENSURE FASCIA IS SECURELY FASTENED TO EACH RAFTER WITH (1) 1/2" X 3" LAG MIN. CENTER LAGS TO RAFTERS. ENSURE 1 1/2" MIN. PENETRATION PRE-DRILL HOLE TO AVOID SPLITTING

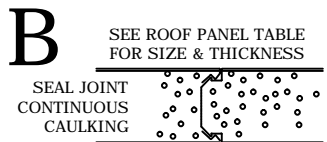


#14x3/4" SMS @ 7" O.C. (8) PER 4' PANEL TOP & BOTTOM. ADD (2) SMS 2" & 4" FROM EACH ENCLOSURE END TOP & BOTTOM. HEAVY ADHESIVE CAULK TOP & BOTTOM CONTINUOUS

*NOTE: USE 1/4"x1 1/4" EMBED TAPCONS, 2 1/2" & 4 1/2" FROM ENDS, 14" MAX O.C. TO HOLLOW BLOCK

TABLE 1: ALT. LAG BOLT CONNECTION

VEL & EXP	LAG SPACING TABLE		
	RL	4", 0.024"	4", 0.032"
100 B	21 PSF	9" O.C.	11" O.C.
110 B			
120 B			
130 B			
140 B	(6) PER 4' PANEL	(5) PER 4' PANEL	
100 C	28 PSF	7" O.C.	9" O.C.
110 C			
120 C			
130 C			
140 C	(7) PER 4' PANEL	(6) PER 4' PANEL	
150 C	50 PSF	5" O.C.	7" O.C.



SEE ROOF PANEL TABLE FOR SIZE & THICKNESS
SEAL JOINT CONTINUOUS CAULKING
ROOF SPAN FROM TABLE MIN ROOF PITCH IS 1/4" PER 12". MAX ROOF PITCH IS 3" IN 12"

ROOF PANEL CONNECTION FRONT ELEVATION

TABLE 2: OPEN WALL COLUMN HEIGHT TABLE MAX ROOF SPAN = 21'-1"

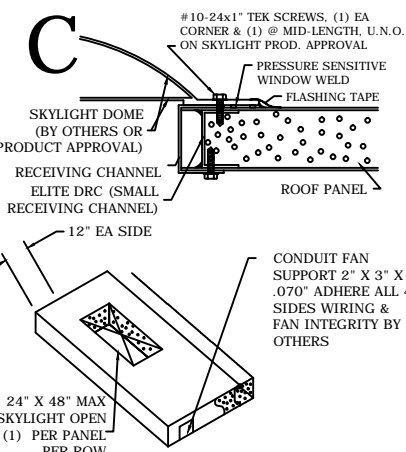
COLUMN	COLUMN SPACING						
	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"
2.5x1.5	8'-0"	8'-3"	8'-3"	6'-4"	N/A	N/A	#NUM!
2.5x2.5	9'-7"	7'-9"	10'-0"	9'-0"	7'-2"	N/A	N/A
2.5x4 POOL	10'-0"	10'-0"	10'-0"	9'-6"	9'-2"	6'-7"	N/A
2.5x6 POOL	10'-0"	10'-0"	10'-0"	10'-0"	6'-7"	9'-3"	6'-10"
2.5x7 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x8 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"
2.5x9 POOL	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"

TABLE 2 NOTES:
VALUES ARE MAXIMUM AVERAGE ON CENTER SPACING OF POSTS, EITHER GRAVITY OR UPLIFT. TO EXCEED A 10' MAXIMUM POST HEIGHT, SITE SPECIFIC ENGINEERING BY A REGISTERED ENGINEER MUST BE PERFORMED. A 30PSF MAX ROOFLoad HAS BEEN APPLIED TO COLUMN VALUES, ALONG WITH A 10PSF MINIMUM WINDLOAD ON EFFECTIVE TRIBUTARY AREA (WORST CASE STORM CONDITION).

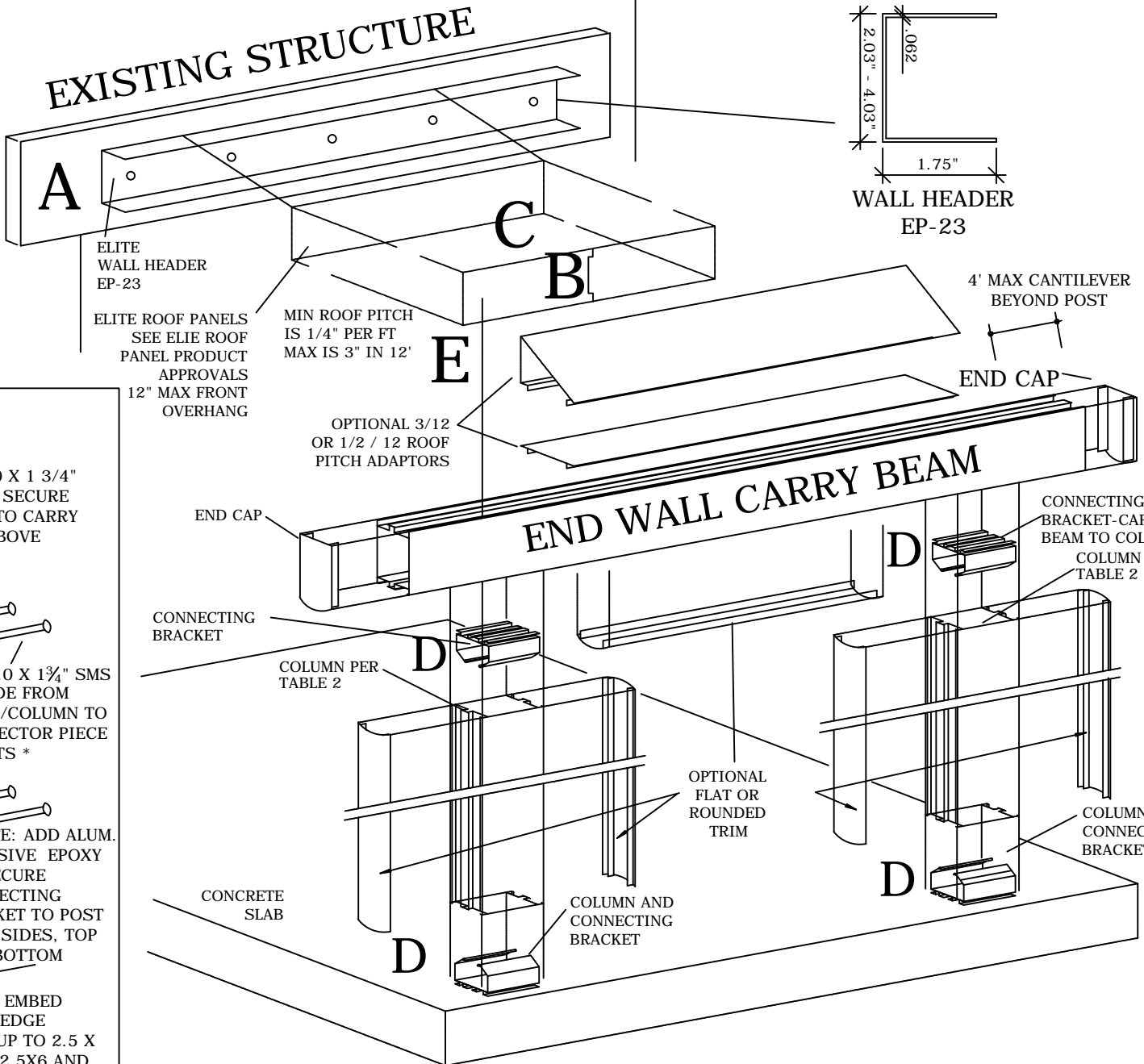
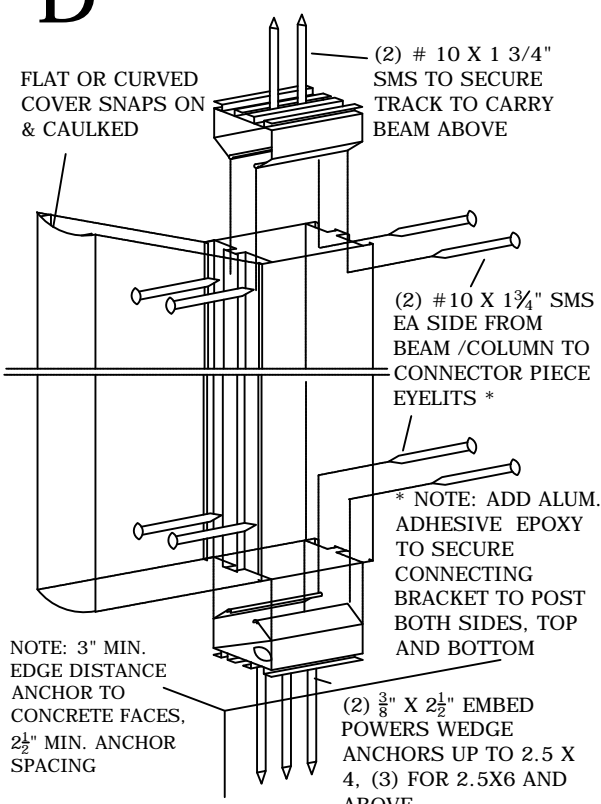
6063-T6

RL = ROOF LOAD
TABLE 1 NOTES:
ANCHORAGE CONSIDERS MAXIMUM GRAVITY AND UPLIFT FOR THE SPECIFIED WIND CONDITION. ANCHORS ARE TO BE EQUALLY SPACED, BEGINNING 2" FROM EACH PANEL END.

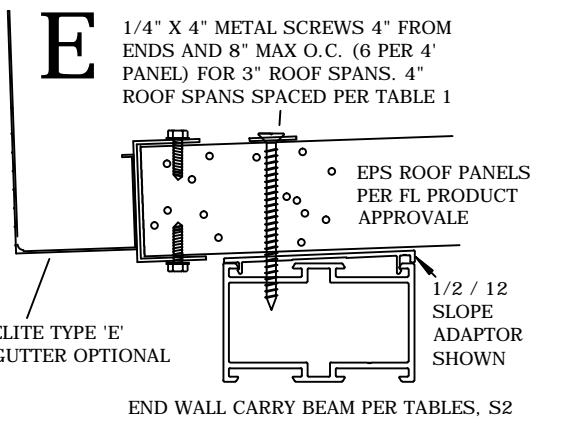
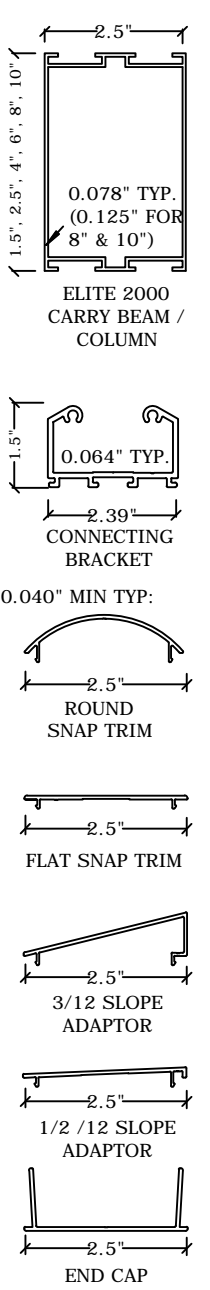
ROOF PANEL ACCESSORIES



TYPICAL FASTENING DETAIL



EXTRUSIONS



GENERAL NOTES

- THIS DOCUMENT SHALL NOT BE USED OR REPRODUCED WITHOUT THE ORIGINAL SIGNATURE & RAISED SEAL OF C.T. "GUS" TARNOWSKI, P.E. & MUST HAVE "ELITE IN RED" ACROSS THE FACE OF THIS DRAWING. ALTERATIONS, ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE OUR CERTIFICATION. PHOTOCOPIES AND UNSEALED DOCUMENTS ARE NOT TO BE ACCEPTED.
- THIS STRUCTURE HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2007 FLORIDA BUILDING CODE WITH 2009 SUPPLEMENTS.
- THE EXISTING HOST STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADED STRUCTURE AS VERIFIED BY THE PERMIT HOLDER. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS CONTAINED HEREIN.
- FABRICATION AND DISTRIBUTION OF ALL MATERIALS TO BE BY ELITE ALUMINUM ONLY IN ACCORDANCE WITH APPROVED FABRICATION METHODS.
- ALL EXTRUSIONS SHALL BE ALUMINUM ALLOY TYPE 6063-T6.
- FASTENERS SHALL HAVE A HEAD AND/OR BE PROVIDED WITH 1/2" DIAMETER WASHER UNLESS OTHERWISE NOTED.
- ALL PRIMARY MEMBERS AND TENSION CONNECTIONS SHALL BE BOLTED OR FASTENED WITH POP RIVETS OR SHEET METAL SCREWS AS SHOWN IN ACCORDANCE WITH PROPER FASTENING METHODS AND CODES. ANY FASTENER STRIPPED OR NOT ADEQUATELY HOLDING SHALL BE REPLACED.
- ALL FASTENERS TO BE 2024-T4 ALLOY, NON-MAGNETIC STAINLESS STEEL OR CADMIUM PLATED OR OTHERWISE CORROSION RESISTANT MATERIAL & SHALL COMPLY WITH SPECIFICATIONS FOR ALUM. STRUCTURES - SECTION 5, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- ROOF PITCH TO BE 1/4" PER FT MIN, 6" PER FT MAX O.N.O. ON SITE SPEC. DRAWING.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALUMINUM MEMBERS FROM DISSIMILAR METALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND AND ALL RELATED WIRING AND CONSIDERATIONS TO BE DESIGNED BY OTHERS AS REQUIRED.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY ELITE, et al. INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FOR ALL COSTS & DAMAGES INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES AND FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED IN THIS SPECIFICATION, NO CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

C.T. "GUS" TARNOWSKI #PE0050662



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4650 LYONS TECHNOLOGY PARKWAY
COCONUT CREEK, FL 33073
ELITE 2000 POST AND BEAM OPEN CARPORT

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END WALL CARRY BEAM CLEAR SPAN TABLE:

TABLE 3: 100MPH, EXPOSURE 'B'

OPEN WALL CARRY BEAM SPAN TABLE: 10 PSF								
BEAM	ROOF CLEAR SPAN							
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	
2.5x1.5	6'-4"	5'-10"	5'-4"	5'-0"	4'-8"	4'-4"	4'-2"	
2.5x2.5	7'-10"	7'-4"	6'-10"	6'-7"	6'-3"	6'-0"	5'-8"	
2.5x4	11'-2"	10'-4"	9'-8"	9'-2"	8'-9"	8'-3"	7'-9"	
2.5x6	15'-7"	14'-6"	13'-4"	12'-4"	11'-7"	10'-10"	10'-3"	
2.5x8	16'-0"	16'-0"	15'-10"	14'-8"	13'-9"	13'-0"	12'-3"	
2.5x10	16'-0"	16'-0"	16'-0"	16'-0"	15'-8"	14'-9"	14'-0"	

TABLE 4: 100MPH, EXP 'C', 110MPH, EXP 'B'

OPEN WALL CARRY BEAM SPAN TABLE: 14 PSF								
BEAM	ROOF CLEAR SPAN							
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	
2.5x1.5	5'-7"	5'-0"	4'-7"	4'-2"	3'-10"	3'-8"	3'-6"	
2.5x2.5	7'-1"	6'-7"	6'-2"	5'-9"	5'-4"	5'-1"	4'-9"	
2.5x4	10'-0"	9'-2"	8'-7"	7'-10"	7'-4"	7'-0"	6'-7"	
2.5x6	13'-9"	12'-4"	11'-3"	10'-4"	9'-9"	9'-2"	8'-8"	
2.5x8	16'-0"	14'-8"	13'-4"	12'-4"	11'-7"	11'-0"	10'-4"	
2.5x10	16'-0"	16'-0"	15'-3"	14'-2"	13'-2"	12'-6"	11'-9"	

TABLE 5: 110MPH, EXP 'C', 120MPH, EXP 'B'

OPEN WALL CARRY BEAM SPAN TABLE: 15 PSF								
BEAM	ROOF CLEAR SPAN							
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	
2.5x1.5	5'-4"	4'-9"	4'-4"	4'-1"	3'-9"	3'-7"	3'-4"	
2.5x2.5	6'-10"	6'-4"	6'-0"	5'-7"	5'-2"	4'-10"	4'-8"	
2.5x4	9'-8"	9'-0"	8'-3"	7'-8"	7'-2"	6'-8"	6'-4"	
2.5x6	13'-4"	11'-10"	10'-10"	10'-1"	9'-4"	8'-10"	8'-4"	
2.5x8	15'-10"	14'-2"	13'-0"	12'-0"	11'-2"	10'-7"	10'-0"	
2.5x10	16'-0"	16'-0"	14'-9"	13'-8"	12'-9"	12'-1"	11'-4"	

TABLE 6: 120MPH, EXP 'C', 130MPH, EXP 'B'

OPEN WALL CARRY BEAM SPAN TABLE: 18 PSF								
BEAM	ROOF CLEAR SPAN							
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	
2.5x1.5	4'-10"	4'-4"	4'-0"	3'-8"	3'-6"	3'-3"	3'-1"	
2.5x2.5	6'-6"	6'-0"	5'-6"	5'-1"	4'-9"	4'-6"	4'-3"	
2.5x4	9'-2"	8'-3"	7'-6"	7'-0"	6'-6"	6'-2"	5'-9"	
2.5x6	12'-2"	10'-10"	9'-10"	9'-2"	8'-7"	8'-1"	7'-8"	
2.5x8	14'-6"	13'-0"	11'-9"	11'-0"	10'-2"	9'-8"	9'-2"	
2.5x10	16'-0"	14'-9"	13'-6"	12'-6"	11'-8"	11'-0"	10'-4"	

TABLE 7: 130MPH, EXP 'C', 140MPH, EXP 'B'

OPEN WALL CARRY BEAM SPAN TABLE: 21 PSF								
BEAM	ROOF CLEAR SPAN							
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	
2.5x1.5	4'-7"	4'-1"	3'-8"	3'-4"	3'-2"	3'-0"	N/A	
2.5x2.5	6'-2"	5'-7"	5'-1"	4'-8"	4'-4"	4'-2"	3'-10"	
2.5x4	8'-7"	7'-8"	7'-0"	6'-6"	6'-0"	5'-8"	5'-4"	
2.5x6	11'-3"	10'-1"	9'-2"	8'-6"	8'-0"	7'-6"	7'-1"	
2.5x8	13'-4"	12'-0"	11'-0"	10'-1"	9'-6"	8'-10"	8'-6"	
2.5x10	15'-3"	13'-8"	12'-6"	11'-6"	10'-9"	10'-2"	9'-8"	

TABLE 8: 140MPH, EXP 'C'

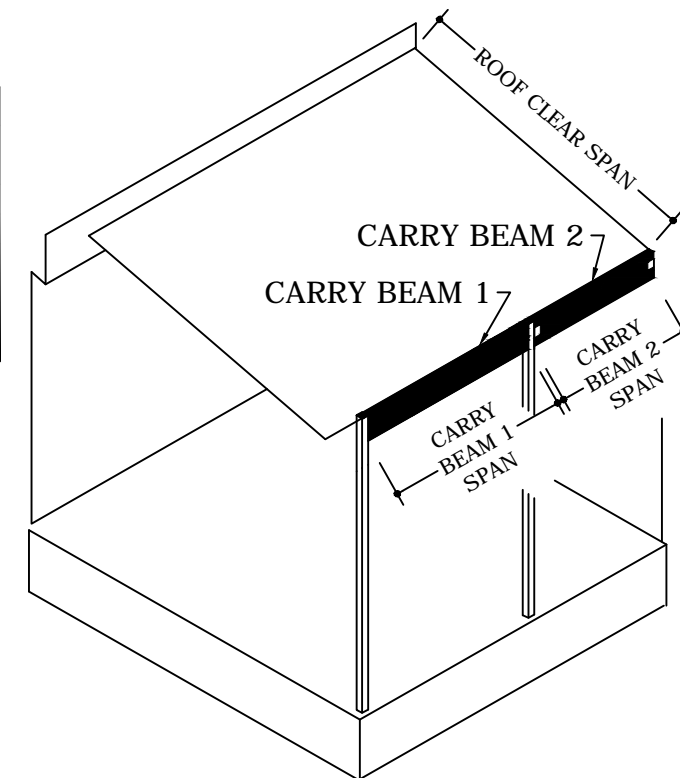
OPEN WALL CARRY BEAM SPAN TABLE: 24 PSF								
BEAM	ROOF CLEAR SPAN							
	8'-0"	10'-0"	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	
2.5x1.5	4'-3"	3'-9"	3'-6"	3'-2"	3'-0"	N/A	N/A	
2.5x2.5	5'-9"	5'-2"	4'-9"	4'-4"	4'-1"	3'-10"	3'-8"	
2.5x4	8'-0"	7'-2"	6'-6"	6'-0"	5'-7"	5'-3"	5'-0"	
2.5x6	10'-6"	9'-4"	8'-7"	8'-0"	7'-4"	7'-0"	6'-8"	
2.5x8	12'-7"	11'-2"	10'-2"	9'-6"	8'-10"	8'-4"	7'-10"	
2.5x10	14'-3"	12'-9"	11'-8"	10'-9"	10'-1"	9'-6"	9'-0"	

TABLE 9: 140MPH, EXP 'C'*

OPEN WALL CARRY BEAM SPAN TABLE: 43 PSF								
BEAM	ROOF CLEAR SPAN							
	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	
2.5x1.5	3'-4"	3'-2"	3'-0"	N/A	N/A	N/A	N/A	
2.5x2.5	4'-8"	4'-4"	4'-1"	3'-10"	3'-8"	3'-6"	3'-4"	
2.5x4	6'-4"	6'-0"	5'-7"	5'-3"	5'-1"	4'-10"	4'-8"	
2.5x6	8'-4"	7'-10"	7'-4"	7'-0"	6'-8"	6'-4"	6'-2"	
2.5x8	10'-0"	9'-4"	8'-9"	8'-4"	8'-0"	7'-7"	7'-3"	
2.5x10	11'-4"	10'-8"	10'-1"	9'-6"	9'-1"	8'-8"	8'-4"	

TABLE 10: 150MPH, EXP 'C'

OPEN WALL CARRY BEAM SPAN TABLE: 50 PSF								
BEAM	ROOF CLEAR SPAN							
	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	
2.5x1.5	3'-1"	N/A	N/A	N/A	N/A	N/A	N/A	
2.5x2.5	4'-3"	4'-0"	3'-9"	3'-7"	3'-4"	3'-3"	3'-2"	
2.5x4	5'-10"	5'-6"	5'-2"	4'-10"	4'-8"	4'-6"	4'-3"	
2.5x6	7'-9"	7'-3"	6'-10"	6'-6"	6'-2"	5'-10"	5'-8"	
2.5x8	9'-3"	8'-8"	8'-2"	7'-9"	7'-4"	7'-1"	6'-9"	
2.5x10	10'-7"	9'-10"	9'-3"	8'-9"	8'-4"	8'-1"	7'-9"	



CARRY BEAM SPAN DEFINED

TABLE 3-10 NOTES:

- 2005 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
 - USE APPROPRIATE TABLE REQUIRED BY THE FLORIDA BUILDING CODE & GOVERNING LOCAL BUILDING CODES. VERIFY REQUIREMENTS WITH BUILDING DEPARTMENT.
 - DEFLECTION LIMIT = $L/120$ *.
 - MAXIMUM EAVE BEAM SPANS ONLY NOTED IN TABLES. NOT TO BE USED WITH INTERMEDIATE CARRY BEAMS WITHOUT ENGINEER APPROVAL.
 - A 3PSF DEAD LOAD HAS BEEN USED WITH ALL CARRY BEAM TABLES.
 - 10PSF MINIMUM SOLID ROOF LIVE LOAD USED OR RESPECTIVE ROOF WINDLOAD (PER FBC TABLE 2002.4 OR ASCE 7-05 FOR HVHZ)USED, WHICHEVER GOVERNS.
 - ROOF CLEAR SPAN IS FROM HOST STRUCTURE TO THE CARRY BEAM.
 - 12" MAXIMUM OVERHANG ON FRONT OF ENCLOSURE, ROOF PANEL SIDE WALL OVERHANG MUST BE SUPPORTED BY EXTENDING CARRY BEAM (4' MAX CANTILEVER)
- *HVHZ ONLY, IF ROOF CLEAR SPAN IS ≤ 12 FT, DEFLECTION = $L/80$, IF ROOF CLEAR SPAN IS > 12 FT, DEFLECTION = $L/180$, MINIMUM SOLID ROOF LIVE LOAD = 30PSF

C.T. "GUS" TARNOWSKI
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