## TABLE 1 , END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

D	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET)	AVERAGE FASTI ON-CENTERS ALO PURLINS, AND PO (INCH	G RAFTERS OR STS OR GIRTS
		V	(,,	METAL PANELS	SPACING
		35	5.0		
0	82 TO 117	40	4.0	29 Gauge	8
		50	4.0 (12 Ga.)		

applicable to 29 gauge metal panels fastened directly to 12 or 14 tube bow frames.

sist of #12 x ½" self-drilling screws without control seal washers, applicable only for mean roof height of 24 feet or less and roof slopes legrees (1.5:12 to 6:12 pitch). Spacing requirements for other roof by slopes may vary.

## TABLE 1 (HIGH WIND REGION) END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

0	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET)	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OF PURLINS, AND POSTS OR GIRTS (INCHES)	
L		( - /	(,,	METAL PANELS	SPACING
Ī	118 TO 132	20	4.0	26 Gauge	6

applicable to 29 gauge and 26 gauge metal panels fastened directly to ge steel tube bow frames.

sist of #12 x 2 self-drilling screws without control seal washer. applicable only for mean roof height of 24 feet or less and roof slopes egrees (1.5:12 to 6:12 pitch). Spacing requirements for other roof r slopes may vary.

THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS NCHORAGE. OTHER DESIGN ISSUES, INCLUDING, BUT NOT LIMITED TO, PLUMBING, ELECTRICAL, PAUCKS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.

D AS UTILITY/STORAGE BUILDINGS CAPABLE OF SUPPORTING THE DEAD LOAD OF THE AND WIND LOADS. IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, WHICH EXERT TURE SHALL BE AT THE OWNER'S RISK. CAROLINA CARPORTS SHALL NOT BE RESPONSIBLE LURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.

BOVE TABLE IS THE MAXIMUM SPACING FOR THE MAIN WIND FORCE RESISTING SYSTEM, A TO MEET LOCAL BUILDING CODE AND/OR SITE SPECIFIC REQUIREMENTS.

KSI STEEL OR BETTER. ALL METAL PANELS SHALL BE 80 KSI STEEL OR BETTER.

ANELS TO FRAMING WITH ∯12" x ≹" SELF DRILLING FASTENERS WITH CONTROL SEAL C OF 8" FOR 29 GAUGE PANELS AND 6" FOR 26 GAUGE PANELS.

E #12 x ₹" SELF DRILLING FASTENERS (SDF) UNLESS NOTED OTHERWISE.

BE SHOP WELDED UNLESS NOTED OTHERWISE.

INSTALL HELICAL ANCHORS ALONG SIDE BASE RAIL WITHIN 6" OF EACH CORNER POST AND LONG THE BASE RAIL INSTALL GROUND ANCHORS (#4 THREADED REBAR) BETWEEN THE EACH POST ALONG THE BASE RAIL HELICAL ANCHORS AND GROUND ANCHORS ARE NOT \$ AND/OR CONCRETE SLAB CONSTRUCTION.

IN 6" OF EACH VERTICAL POST ALONG SIDE AND END BASE RAILS. USE ITW RAMSET/ STRONG-TIE STRONG BOLT-2 WEDGE ANCHORS, OR ITW REDHEAD TAPCON+ OR TITEN HD D EQUAL.

EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS AND HEADERS.

S FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE I ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

# STANDARD BUILDING DETAILS 12 ft to 24 ft SPAN

LIGHT FRAME CONSTRUCTION

NOTE: USE  $\bigcirc$   $2\frac{1}{2}$ " ×  $2\frac{1}{2}$ " 14 Ga.  $\bigcirc$   $2\frac{1}{4}$ " ×  $2\frac{1}{4}$ " 12 Ga.

STEEL TUBE FOR ALL FRAME AND BASE
RAIL MEMBERS UNLESS OTHERWISE SHOWN.

NOTE: THESE ARE STANDARD DETAILS THAT CAN BE USED FOR A WIDE RANGE OF APPLICATIONS. IF SITE SPECIFIC PLANS ARE REQUIRED, A SEPARATE SET OF PLANS WILL NEED TO BE PREPARED.



CONCRETE FOUNDATION DESIGN RECOMMENDATIONS:

THE CONRETE SLAB AND FOUNDATION ARE CONSTRUCTED BY OTHERS. THE OWNER IS RESPONSIBLE FOR PROVIDING A SUITABLE SLAB AND FOUNDATION FOR THE PROPOSED STRUCTURE. THE CONCRETE DETAILS SHOWN ON THESE PLANS MAY BE USED, HOWEVER, THE LOCAL BUILDING CODE OFFICIALS MAY HAVE MORE RESTRICTIVE REQUIREMENTS. THE OWNER IS RESPONSIBLE FOR COORDINATING THE CONCRETE SLAB AND FOUNDATION STRENGTH AND DEPTH REQUIREMENTS WITH THE LOCAL BUILDING CODE OFFICIALS.

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS OR AS REQUIRED BY LOCAL BUILDING CODE. THE USE OF HIGHER STRENGTH CONCRETE IS ACCEPTABLE.

COVER OVER REINFORCING STEEL:
MINIMUM CONCRETE OVER REINFORCING BARS SHALL BE 3 INCHES WHERE
CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE
EARTH AND 13" ELSEWHERE.

REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40. THE USE OF
FIBER REINFORCED CONCRETE (FRC) OR WELDED WIRE FABRIC (WWF) IS
ACCEPTABLE.

SOIL BEARING PRESSURE: THE ALLOWABLE SOIL BEARING PRESSURE IS BASED ON A PRESUMPTIVE ALLOWABLE BEARING PRESSURE OF 1,500 PSF IN ACCORDANCE WITH TABLE 1806.2 OF THE INTERNATIONAL BUILDING CODE.



### CAROLINA CARPORTS INC.

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## METAL BUILDING INSTALLATION PLANS AND DETAILS AND

#### FRAMING AND FASTENER SPECIFICATIONS

THE OWNER IS RESPONSIBLE FOR OBTAINING A BUILDING PERMIT, IF NEEDED, AND FOR COMPLYING WITH ALL LOCAL BUILDING CODE REQUIREMENTS.

THIS IS TO CERTIFY THAT THE CALCULATIONS AND SPECIFICATIONS HEREIN HAVE BEEN PREPARED BY THE UNDERSIGNED PROFESSIONAL ENGINEER, AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2015 INTERNATIONAL BUILDING CODE, THE 2015 INTERNATIONAL RESIDENTIAL CODE, THE 2018 NORTH CAROLINA BUILDING CODE AND THE 2018 NORTH CAROLINA RESIDENTIAL CODE.

RMATION	BUILDING CODE INFO
1 11	RISK CATEGORY
U or S	USE GROUP
IIB	CONSTRUCTION TYPE

	IMPORTANCE FAC	TORS	
Г	WIND Iw	1.0	
Г	SNOW is	8.0	1.0
Г	EARTHQUAKE Is	1.0	

	DESIGN LOADS
5 PSF	MIN. DEAD LOAD
125 PSF	MIN. FLOOR LIVE LOAD
20 PSF	MIN. ROOF LIVE LOAD
10 PSF	MIN. GROUND SNOW LOAD
	MAX. GROUND SNOW LOAD
SEE	MIN. ULTIMATE WIND SPEED
TABLE 1	MAX. ULTIMATE WIND SPEED
	EXPOSURE CATEGORY
D2	MAX. SEISMIC DESIGN CATEGORY

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SHEET 1 OF 4





