TABLE 1

BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING SPECIFICATIONS

WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET)	AVERAGE FASTI ON-CENTERS ALO PURLINS, AND PO (INCH	NG RAFTERS OR DSTS OR GIRTS	
				(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	METAL PANELS	SPACING	
			35	5.0			
B or C	105 TO 150	82 TO 117	40	4.0	29 Gauge	8	
			50	4.0 (12 Ga.)			

- NOTES: 1 Specifications applicable to 29 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames.
 - 2. Fasteners consist of #12 x }" self-drilling screws without control seal washers. 3. Specifications applicable only for mean roof height of 24 feet or less and roof slopes of 7 to 27 degrees (1.5:12 to 6:12 pitch). Spacing requirements for other roof heights and/or slopes may vary.

THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADDING, AND BASE RAIL ANCHORAGE, OTHER DESIGN ISSUES, INCLUDING, BUT NOT LIMITED TO, PLUMBING, ELECTRICAL. INGRESS/EGRESS, PROPERTY SET-BACKS, OR OTHER LOCAL ZONING REQUIREMENTS ARE THE RESPONSIBILITY OF OTHERS.

THESE STRUCTURES ARE DESIGNED AS UTILITY/STORAGE BUILDINGS CAPABLE OF SUPPORTING THE DEAD LOAD OF T STRUCTURE AND APPLICABLE LIVE AND WIND LOADS, IMPROVEMENTS NOT SPECIFICALLY ADDRESSED HEREIN, WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK, CAROLINA CARPORTS SHALL NOT BE RESPONSIBLE FOR STRUCTURAL DAMAGE OR FAILURE DUE TO THE APPLICATION OF ADDITIONAL LOADS.

THE SPACING INDICATED IN THE ABOVE TABLE IS THE MAXIMUM SPACING FOR THE MAIN WIND FORCE RESISTING SYSTEM. A CLOSER SPACING MAY BE NEEDED TO MEET LOCAL BUILDING CODE AND/OR SITE SPECIFIC REQUIREMENTS

STEEL TUBING SHALL BE 55 KSI STEEL OR BETTER. ALL METAL PANELS SHALL BE 80 KSI STEEL OR BETTER.

FASTEN METAL ROOF AND WALL PANELS TO FRAMING WITH #12" x 3" SELF DRILLING FASTENERS WITH CONTROL SEAL WASHERS AT AN AVERAGE SPACING OF 8" FOR 29 GAUGE PANELS AND 6" FOR 26 GAUGE PANELS.

ALL FIELD CONNECTIONS SHALL BE #12 x 1 SELF DRILLING FASTENERS (SDF) UNLESS NOTED OTHERWISE.

ALL WELDED CONNECTIONS SHALL BE SHOP WELDED UNLESS NOTED OTHERWISE.

GROUND ANCHOR REQUIREMENTS: INSTALL HELICAL ANCHORS ALONG SIDE BASE RAIL WITHIN 6" OF EACH CORNER POST AND AT A MAXIMUM SPACING OF 25' ALONG THE BASE RAIL INSTALL GROUND ANCHORS (#4 THREADED REBAR) BETWEEN THE HELICAL ANCHORS WITHIN 6" OF EACH POST ALONG THE BASE RAIL HELICAL ANCHORS AND GROUND ANCHORS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION

INSTALL CONCRETE ANCHORS WITHIN 6" OF EACH VERTICAL POST ALONG SIDE AND END BASE RAILS. USE ITW RAMSET/ REDHEAD TRUBOLT OR SIMPSON STRONG-TIE STRONG BOLT-2 WEDGE ANCHORS, OR ITW REDHEAD TAPCON+ OR TITEN HD SCREW ANCHORS OR AN APPROVED EQUAL

POST/RAFTER BRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS AND HEADERS.

GALVANIZATION: METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STANLESS STELL OR HOT DIPPED GAVANIZED.

STANDARD BUILDING DETAILS 12 ft to 24 ft SPAN

CAROLINA CARPORTS INC.

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NOTE: USE 2^{1}_{2} " × 2^{1}_{2} " 14 Ga.

21" x 21" 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.



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 1	RISK CATEGORY
U or S	USE GROUP
IIB	CONSTRUCTION TYPE

IMPORTANCE FAC	TORS	
WIND Iw	1.0	
SNOW Is	0.8	1.0
EARTHQUAKE le	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	MAX. ULTIMATE WIND SPEED
	EXPOSURE CATEGORY
D2	AV SEISHIC DESIGN CATEGORY

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.

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

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.

Project Location:

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