

This structure may be used for residential storage only, and may not be used for any other purpose.

BOW/RAFT	ER FRAME,	END POST,	TABLE GROUND A SPECIFICA	NCHOR AND	PANEL FASTER	NER SPACING
WIND EXPOSURE CATEGORY	ULTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	MAXIMUM POST/RAFTER SPACING (FEET) 5.0	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
					METAL PANELS	SPACING
B OR C	105 TO 140	82 TO 108	35 65	4.0	29 Gauge	8
	neights and/or	slopes may	1 (HIGH V GROUND A	NCHOR AND	D PANEL FASTER	11 - 2-588120
			SPECIFICA	TIONS		
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 OSTS OR GIRTS
			1	(1-2-1)	METAL PANELS	SPACING
B OR C	141 TO 150	109 TO 116	30	5.0	29 Gauge	8
B, C OR D	151 TO 170	117 TO 132	20	4.0	26 Gauge	6
2.   3.	12 or 14 gaug Fasteners cons Specifications	ge steel tube aist of #12 x applicable only grees (1.5:12	bow frames. <sup>2</sup> " self-drilling for mean ro to 6:12 pitch	g screws witho of height of 2	etal panels fastene ut control seal wa 24 feet or less ani quirements for othe	sher. d roof slopes

#### GENERAL NOTES

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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 THE 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.

ALL 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" × #" 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 2 SELF DRILLING FASTENERS (SDF) UNLESS NOTED OTHERWISE.

ALL WELDED CONNECTIONS SHALL BE SHOP WELDED UNLESS NOTED OTHERWISE.

GROUND ANCHOR REQUIREMENTS: INSTALL HELICAL ANCHORS WITHIN 6" OF EACH CORNER POST AND AT A MAXIMUM SPACING OF 25' ALONG THE BASE RAIL INSTALL GROUND RODS (#4 THREADED REBAR) BETWEEN THE HELICAL ANCHORS AT A MAXIMUM SPACING OF 5' AND A MINIMUM SPACING OF 4' ALONG THE BASE RAIL HELICAL ANCHORS AND GROUND RODS ARE NOT REQUIRED FOR CONCRETE FOOTING AND/OR CONCRETE SLAB CONSTRUCTION.

CONCRETE EXPANSION ANCHORS SHALL BE ITW RAMSET/REDHEAD TRUBOLT WEDGE ANCHOR, WEJ-IT ANKR-TITE MODEL AT1252, SLEEVE ANCHOR MODEL HSA 1260, ITW REDHEAD TAPCON+ OR 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 STEEL OR HOT DIPPED GALVANIZED.

# ANDARD CARPORT DETAILS 12 ft to 24 ft SPAN

LIGHT FRAME CONSTRUCTION

()23" x 23" 14 Ga. : USE  $(2\frac{1}{4}" \times 2\frac{1}{4}" 12 \text{ Ga.}$ TUBE FOR ALL FRAME AND BASE MEMBERS UNLESS OTHERWISE SHOWN.



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ISOMETRIC

### CONCRETE FOUNDATION DESIGN RECOMMENDATIONS:

CONCRETE INFORMATION AND DETAILS SHOWN IN THESE PLANS ARE FOR INFORMATION ONLY, THE CONCRETE SLAB AND FOUNDATION ARE BY OTHERS. THE OWNER IS RESPONSIBLE FOR PROVIDING A SUITABLE FOUNDATION FOR THE PROPOSED STRUCTURE AND COORDINATING CONCRETE STRENGTH AND FOUNDATION DEPTH REQUIREMENTS WITH THE LOCAL BUILDING CODE OFFICIALS.

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 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 OR EXPOSED TO THE EARTH OR WEATHER AND 12" 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.



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# METAL CARPORT INSTALLATION PLANS AND DETAILS

## AND

## FRAMING AND FASTENER SPECIFICATIONS

CAROLINA CARPORTS, INC.

187 Cardinal Ridge Trail DOBSON, NORTH CAROLINA 27017

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 2018 INTERNATIONAL BUILDING CODES AND THE 2018 NORTH CAROLINA BUILDING CODE.

BUILDING CODE INFO	RMAT	ION	DESIGN LOADS		
OCCUPANCY CATEGORY	1	11	MIN. DEAD LOAD	5 PSF	
USE GROUP	U or S		MIN. FLOOR LIVE LOAD	125 PSF	
CONSTRUCTION TYPE	28		MIN. ROOF LIVE LOAD	20 PSF	
IMPORTANCE FAC	TORS		MIN. GROUND SNOW LOAD		
WIND Iw	1.0		MAX. GROUND SNOW LOAD		
SNOW Is	8.0	1.0	MIN. ULTIMATE WIND SPEED	SEE TABLE 1	
EARTHQUAKE le	1	.0	MAX. ULTIMATE WIND SPEED		
			EXPOSURE CATEGORY	1	
			SEISMIC RESPONSE COEFFICIENT	0.500	

These plans have been provided for the OFTH CAROL purpose of obtaining a building permit for the construction of the building for: Alfonso Arvizu Benavidez Name 732 Cool Springs Road L. LUEBBC City Lillington State: NC WGINEEP Zip: 27546 Use of these plans by anyone else or for 10/14/2021 any other purpose is prohibited. SHEET 1 OF 4





