PHILIP WOLFBURG 24' X40' STEEL BARN

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 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	5.0	20 Cause	
5 510 6	100 10 140	02 10 106	65	4.0	29 Gauge	8

- NOTES: 1. Specifications applicable to 29 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames.
 - Fasteners consist of #12 x ¾" self-drilling screws without control seal washers.
 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

TABLE 1 (HIGH WIND REGION)
BOW/RAFTER FRAME, END POST, GROUND ANCHOR AND PANEL FASTENER SPACING
SPECIFICATIONS

WIND EXPOSURE CATEGORY	JLTIMATE WIND SPEED (MPH)	NOMINAL WIND SPEED (MPH)	MAXIMUM GROUND SNOW LOAD (PSF)	OUND POST/RAFTER SPACING	AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS OR GIRTS (INCHES)	
			.3. 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

- NOTES: 1. Specifications applicable to 29 gauge and 26 gauge metal panels fastened directly to 12 or 14 gauge steel tube bow frames.
 - Fasteners consist of #12 x 3 self-drilling screws without control seal washer.
 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.

GENERAL NOTES:

THESE PLANS PERTAIN ONLY TO THE STRUCTURE, INCLUDING MAIN WIND FORCE RESISTING SYSTEM (MWFRS), COMPONENTS AND CLADONIC, AND BASE RAIL ANCHORAGE, OTHER DESIGN ISSUES, INCLUDING, BUT NOT LIMITED TO, PULNIBING, 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. IMPROVEDENTS NOT SPECIFICALLY ADDRESSED HEREIN, WHICH EXERT ADDITIONAL LOADS ON THE STRUCTURE SHALL BE AT THE OWNER'S RISK. CAROLINA CAPRORTS 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" x \$\frac{1}{4}" 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.

heights and/or slopes may vary.

GROUND ANCHOR REDUIREMENTS: 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 REBURY) BETWEEN THE HELICAL ANCHORS AT A MAXIMUM 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 RANSET/REDHEAD TRUBOLT WEDGE ANCHOR, WEJ-IT ANKR-TITE MODEL AT1252, SLEEVE ANCHOR MODEL HSA 1260, ITW REDHEAD TAPCON+ OR APPROVED EQUAL.

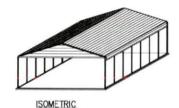
POST/RAFTER PRACING: BRACE ON EVERY POST/RAFTER CONNECTION, EXCEPT FOR END WALLS AND HEADERS.

CALVANIZATION: METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE CALVANIZED IN ACCORDANCE WITH ASTIA A 15.3, CLASS B-2. METAL PLATE CONNECTIORS, SCREWS, BOLTS AND MALLS DIFFOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED CALVANIZED.

STANDARD CARPORT DETAILS 12 ft to 24 ft SPAN

LIGHT FRAME CONSTRUCTION

NOTE: USE O2½" x 2½" 14 Ga.
O2½" x 2½" 12 Ga.
STEEL TUBE FOR ALL FRAME AND BASE
RAIL MEMBERS UNIESS OTHERWISE SHOWN





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 BILLIDING CODE OFFICIALS.

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 25 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 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



CAROLINA CARPORTS INC.

P.O. BOX 1263 DOBSON, NC 27017 TOLL FREE 1-800-670-4262 LOCAL 336-367-6400 FAX 336-367-6410

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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 CARCLINA BUILDING CODE.

BUILDING CODE INFO	RMAT	ION
OCCUPANCY CATEGORY	1	11
USE GROUP	U or S	
CONSTRUCTION TYPE	28	
IMPORTANCE FACT	TORS	
WIND Iw	1.0	
SNOW Is	0.8	1.0
EARTHQUAKE le	1	.0

DESIGN LOADS			
MIN. DEAD LOAD	5 PSF		
MIN. FLOOR LIVE LOAD	125 PSF		
MIN. ROOF LIVE LOAD	20 PSF		
MIN, GROUND SNOW LOAD			
MAX. GROUND SNOW LOAD			
MIN. ULTIMATE WIND SPEED	SEE TARLE 1		
MAX. ULTIMATE WIND SPEED			
EXPOSURE CATEGORY			
SEISMIC RESPONSE COEFFICIENT	0.500		

These plans have been provided for the purpose of obtaining a building permit for the construction of the building for:

Name:	Philip Wol	fburg
Address:	388 Crawford	
City:	Coats	State: NC

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10/14/2021

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