



November 19, 2025

Olympia Steel Buildings
400 Island Avenue
McKees Rocks, PA 15136

Re: Job No.: 15130-38808
Dan Legaly
185 Progress Dr
Fuquay Varina, NC 27526
Wake

WRF 60'-0" W x 168'-0" L x 14'-0" EH Roof Slope 3.0:12

To whom it may concern:

In our professional opinion, the above referenced buildings have been designed to sustain no less than the requested design loads as listed on the order documents, applied per the **2015 International Building Code** specifically as follows:

Risk Category	II - Normal	
Dead Load	2.50 psf	
Collateral Load	3.00 psf	(Misc.)
Roof Live Load	20.00 psf	Reducible
Rainfall Intensity	6.54 in/hr	5-year return period 5-minute duration
Ground Snow Load	15.00 psf	Importance Factor: 1.0 Exposure Factor: 1.00
Roof Snow Load	10.50 psf	Thermal Factor: 1.00 Slope Factor: 1.00
Wind Speed V_{ult} (3-sec gust)	120 mph	Exposure = C
Wind Speed V_{asd}	93 mph	
Serviceability Wind Speed	76 mph	
Internal Pressure Coefficient	± 0.18	

Wind design is based on an **Enclosed** building. All building envelope accessories (windows, doors, etc.) not provided by the metal building fabricator must be designed to sustain no less than the same wind criteria as the building.

For components, cladding, and MWFRS, deflections involving wind are based on 10-year serviceability wind pressures.

Seismic Importance Factor $I_e =$	1.0000	
Spectral Response Acceleration, $S_s =$	0.1750	Design Spectral Response, $S_d =$ 0.1867
Spectral Response Acceleration, $S_1 =$	0.0840	Design Spectral Response, $S_{d1} =$ 0.1344
Seismic Design Category =	C	Site Class = D
Seismic Response Coefficient, $C_s =$	0.0623	Design Base Shear, $V =$ 5.36 kips (Lat)
		5.35 kips (Long)



Seismic Force-Resisting System

H. Steel Systems not Specifically Detailed for Seismic Resistance

Framing Direction	Lateral	Longitudinal
Response Modification Factor	3.0	3.0
Deflection Amplification Factor	3.0	3.0
Analysis Procedure	Equivalent Lateral Force	

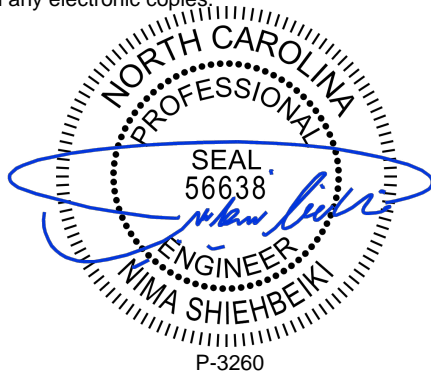
Design is in accordance with the **AISI S100-12 North American Specification for the Design of Cold-Formed Steel Structural Members**, the **AISC 360-10 Specification for Structural Steel Buildings**, the **AWS D1.1-2020 Structural Welding Code - Steel**, the **AWS D1.3-2018 Structural Welding Code - Sheet Steel**, and generally accepted engineering practices.

The engineer whose seal and signature appears on these documents represents Whirlwind Steel Buildings, Inc and is not the Engineer of Record (EOR) for the overall construction project. It is expressly noted that this letter of professional opinion includes only the steel building as designed and furnished by Whirlwind Steel Buildings, Inc. and specifically excludes all accessories, anchor rods, foundation, masonry, general contract work, or any field modifications deviating from the Whirlwind construction documents.

Sincerely,

This document has been digitally signed and sealed by Nima Shiehbeiki on 12/04/2025

Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



Nima Shiehbeiki, PE.