STEELCOR BUILDINGS
4084 LYNDHURST COURT
SARASOTA, FL. 34235

DATE: 07/01/25
ERWIN HANGAR
JOB NO: 9277
BUILDING SIZE:
WIDTH : 120 ft.
LENGTH : 75 ft.
EAVE HT : 26 ft.
JOB SITE: ERWIN, NC 28339

To Whom It May Concern:

This Letter of Design Certification ensures that primary and secondary framing furnished by Metal Building Manufacturer are designed in accordance with information specified to Metal Building Manufacturer on the order documents and summarized by loading information below.

DESIGN LOAD CRITERIA:
Building Code:IBC 21/NCBC 24
Roof Dead Load(D): 2.000 psf plus wt. of metal bldg structure
Roof Live Load(Lr): 20.00 psf
Tributary Live Load Reduction:Yes

Collateral Load(C)	: 3 psf	Snow Thermal_Coef. Ct	: 1.00
Building Risk Category	: II - Normal	Snow Imp. Fac.	: 1.0000
Wind Speed Ultimate	: 120 mph	Seismic Use Group (SUG)	: II - Normal
Nominal	: 92.95 mph	Seismic Site Class	: D
Wind Exp. Cat	: C	Mapped Response (Ss)	: 0.1860
Serviceability Wind	: 10 -year MRI	Mapped Response (S1)	: 0.0860
Enclosure Type	: Enclosed	Design Response (Sds)	: 0.1984
Internal Wind Coef.	: -0.18/0.18	Design Response (Sd1)	: 0.1376
		Rigid Frame (Cs)	: 0.0662
Ground Snow Load(Pg)	: 10.00 psf	Design Category (SDC)	: C
Roof Snow Load	: 7 psf	Seismic Importance	: 1.00
Snow Exp. Fac	: 1.0000	Res Mod Factor(OMF)R	: 3.000*
		Res Mod Factor (Brc) R	: 3.000*

* STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.

COMPONENTS & CLADDING (unfactored)
Wall Field Values : 32.081 psf / -34.755 psf
Wall Edge Values : 32.081 psf / -42.695 psf

REFERENCE DESIGN STANDARDS:
*AISC Specification for Structural Steel Buildings-Allowable stress design, 360-16.
*AISI North-American Specification for the Design of Cold-Formed Steel Structural Members, 2016 (W/S2-20).
*MBMA Low Rise Building Systems Manual,Latest Edition.
*AISC Design Guide 3,"Serviceability Design Consideration for Steel Buildings,Second Edition"
*AWS Latest Edition of Structural Welding Code-Steel.
* IBC 21/NCBC 24 are using the ASCE7-16.

This certification is limited to the structural design of the frames, secondary, and roof/wall covering manufactured or supplied by Metal Building Manufacturer only and excludes Accessory items such as doors, windows, louvers, translucent panels, and ventilators. This certification specifically excludes any foundation, masonry, erection of building and general contract work.

The undersigned is not the engineer of record for the overall project.

Sincerely,

Wayne Brad Baker, P.E.

Wayne Brad Baker, P.E.
235 Sanders Rd.
Hahira, GA 31632

7.9.25