

RENEGADE STEEL BUILDINGS, INC.
2151 HOMER RD.
COMMERCE, GA 30529

DATE: 1/31/23
JUNIOR FAIRCLOTH
JOB NO: 7871
BUILDING SIZE:
WIDTH : 40 ft.
LENGTH : 60 ft.
EAVE HT : 16 ft.
JOB SITE: DUNN, NC 28334

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 15/NCBC 18
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) : 0.5 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 : B Mapped Response (Ss) : 0.1810
Serviceability Wind : 10 -year MRI Mapped Response (S1) : 0.0850
Enclosure Type : Enclosed Design Response (Sds) : 0.1931
Internal Wind Coef. : -0.18/0.18 Design Response (Sd1) : 0.1360
 Rigid Frame (Cs) : 0.0644
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 : 23.689 psf / -25.663 psf
Wall Edge Values : 23.689 psf / -31.526 psf

REFERENCE DESIGN STANDARDS:

- *AISC Specification for Structural Steel Buildings-Allowable stress design, 360-10.
- *AISI North-American Specification for the Design of Cold-Formed Steel Structural Members, 2012 Edition.
- *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 15/NCBC 18 are using the ASCE7-10.

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

