

LMC STEEL
22061 FLETCHER RD
OBRIEN, FL 32071

DATE: 4/ 7/24
BETHLEHEM PARK ASSEMBLY BLDG.
JOB NO: 8546
BUILDING SIZE:
WIDTH : 40 ft.
LENGTH : 80 ft.
EAVE HT : 12 ft.
JOB SITE: FT. WHITE FL, 32038

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:FBC 23/8th Edition	
Roof Dead Load(D): 2.00 psf plus wt. of metal bldg structure	
Roof Live Load(Lr): 20.00 psf	
Tributary Live Load Reduction:Yes	
Collateral Load(C) : 2.00 psf	Snow Thermal Coef. Ct : 1.2000
Building Risk Category : II - Normal	Snow Imp. Fac. : 1.0000
Wind Speed Ultimate : 121 mph	Seismic Use Group (SUG) : II - Normal
Nominal : 93.73 mph	Seismic Site Class : D
Wind Exp. Cat : B	Mapped Response (Ss) : 0.1200
Serviceability Wind : 10 -year MRI	Mapped Response (S1) : 0.0560
Enclosure Type : Enclosed	Design Response (Sds) : 0.1000
Internal Wind Coef. : -0.18/0.18	Design Response (Sd1) : 0.0800
	Rigid Frame (Cs) : 0.0334
Ground Snow Load(Pg) : 3.00 psf	Design Category (SDC) : B
Roof Snow Load : 2.17 psf	Seismic Importance : 1.00
Snow Exp. Fac : 1.0000	Res Mod Factor(OMF)R : 3.000*
	Res Mod Factor (Brc) R : 3.000*

COMPONENTS & CLADDING (unfactored)

Wall Field Values : 21.497 psf / -23.319 psf
Wall Edge Values : 21.497 psf / -28.784 psf

REFERENCE DESIGN STANDARDS:

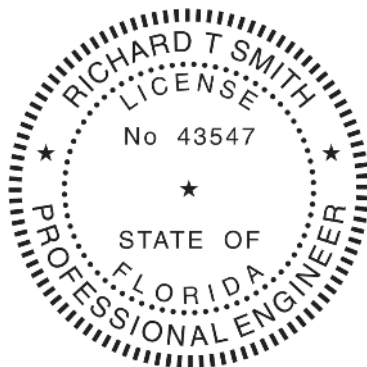
- *AISC Specification for Structural Steel Buildings-Allowable stress design, 360-16.
- *AISI North-American Specification for the Design of Cold-Formed Steel Structural Members, 2016 (2020) w/S2 Edition.
- *MBMA Low Rise Building Systems Manual, Latest Edition.
- *AISC Design Guide 3, "Serviceability Design Consideration for Steel Buildings, Second Edition"
- *AWS Latest Edition of Structural Welding Code-Steel.
- * FBC 23/8th Edition are using the ASCE7-22.

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,

Richard T. Smith, P.E.



Richard T
Smith

Digitally signed by Richard T
Smith
DN: c=US, st=Alabama, l=Salem,
cn=Richard T Smith,
email=rtsmith@smitheng.net
Date: 2024.04.09 18:23:58 -04'00'

This item has been digitally signed and sealed by Richard T Smith on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.