

Certificate of Design

This Certificate is to confirm that all components of the Steel Building System described below have been or will be designed and fabricated in accordance with the following standards, loads, and design criteria as specified in the order documents.

Project/Building Description

CBS Factory Order Number:	FO#25196	Building #:	1	OF	1	
Purchaser/Customer Information:	Universal Steel Buildings 400 Island Avenue McKees Rocks, PA 15136	Building Geometry:	Width:	30'-0"	Length:	30'-0"
Project Name and Location:	Marcus Hampers 50 Eaton Road Plainfield, NH 03781	Eave Height:	12'-0"	Roof Slope:	4.00/12	

Design Standards

AISC: Specification for Structural Steel for Buildings, Allowable Stress Design/14th Ed.
AISI: North American Specification for the Design of Cold-Formed Steel Structural Members, 2012 Ed.
AWS D1.1/D1.1M: Structural Welding Code – Steel, 2015 Ed.
MBMA: Metal Building Systems Manual, 2012 Edition

Design Load Criteria

Building Code:	International Building Code, 2015	
Local Code:	International Building Code, 2015	
Dead Load:	2.25 PSF Plus Primary Framing Actual Weight	
Collateral Load:	1 PSF	
Roof Live Load:	20 PSF	
Frame Live Load:	20 PSF	
Snow Load Criteria:	Ground Snow Load, Pg: 100 PSF	Thermal Factor, Ct: 1.00
	Snow Exposure Factor, Ce: 1.00	Flat Roof Snow Load, Pf: 70.0 PSF
	Snow Importance Factor, Is: 1.00	

Wind Load Criteria:

Ultimate Wind Speed:	115 MPH	Occupancy Category:	II
Nominal Wind Speed:	89 MPH	Internal Pressure Coefficients:	+0.18/-0.18
Terrain Exposure:	B	Components and Cladding not by CBS:	+23.77 PSF -31.77 PSF
Wind Importance Factor, Iw:	1.00		

Seismic Criteria

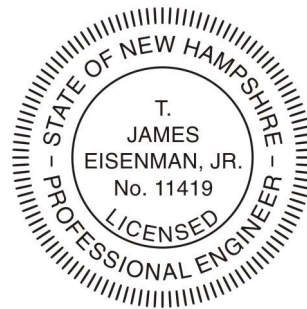
Site Class:	D	Ss:	0.2410
Design Category:	C	S1:	0.0840
Seismic Importance Factor, Ie:	1.00	Sds:	0.2571
Occupancy Category:	II	Sd1:	0.1344
Analysis Procedure	Equivalent Lateral Force Procedure		
Basic Seismic Force Resisting Systems:	Steel Systems Not Specifically Detailed For Seismic Resistance		
Response Modification Factors, R:	Frame= 3.00	FSW= 3.00	BSW= 3.00
Seismic Response Coefficients, CS:	Frame= 0.086	FSW= 0.086	BSW= 0.086
Seismic Base Shear, V:	Longitudinal = 1.77 Kips	Transverse= 1.80 Kips	

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Crane Information:	Crane Type:	N/A	Hoist/Trolley Weight:	N/A
	CMAA Service Class:	N/A	Wheel Spacing:	N/A
	Crane Capacity:	N/A		
	Bridge Weight:	N/A		
Mezzanine Loads:	Dead Load:	N/A		
	Collateral Load:	N/A		
	Live Load:	N/A		
Additional Loads:				

Certification By Engineer

I, T. James Eisenman, Jr., P. E., a licensed engineer in the State of New Hampshire, certify that I have reviewed the design criteria for the steel building system described above and to the best of my knowledge all components have been designed to meet the applicable criteria as specified in the Order Documents.



Signature

Date

SEAL