



114 Rosemont Lane Imler, PA 16655

17096 Certificate of Design.ME.doc

Revised 8/17/2009

Certificate of Design

This Certificate is to confirm that all components of the Steel Building System described below, to be supplied by Corle Building Systems, produced at its Facility at Imler, PA, have been or will be designed in accordance with the following standards, loads, and design criteria as specified in the order documents.

Project/Building Description

CBS Factory Order Number:	FO-17096	Building Geometry:	
Purchaser/Customer Information:	Seacoast Crane & Building Co., Inc. P.O. Box 540 Kittery, ME 03904	<i>Width:</i>	120'-0"
Project Name and Location:	Portland Sports Realty, LLC 512 Warren Avenue Portland, ME 04101	<i>Length:</i>	150'-0"
		<i>Eave Height:</i>	34'-0"
		<i>Roof Slope:</i>	1.00/12

Design Standards

AISC: *Specification for Structural Steel for Buildings, Allowable Stress Design/9th Ed.*
 AISI: *North American Specification for the Design of Cold-Formed Steel Structural Members, 2001 Ed.*
 AWS D1.1/D1.1M: *Structural Welding Code – Steel, 2006 Ed.*
 MBMA: *Metal Building Systems Manual, 2006 Edition*

Design Load Criteria

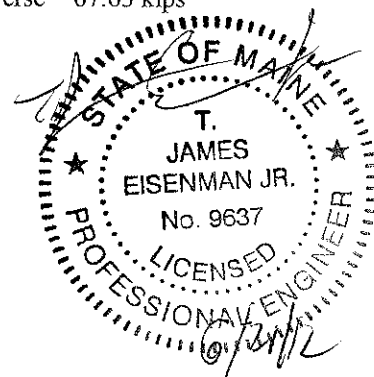
Building Code:	International Building Code, 2009		
Dead Load:	4.06 psf plus primary framing actual weight		
Collateral Load:	5 psf		
Roof Live Load:	20 psf		
Frame Live Load:	20 psf		
Snow Load Criteria:	<i>Ground Snow Load, p_g:</i> 60 psf <i>Snow Exposure Factor, C_e:</i> 1.00 <i>Snow Importance Factor, I_s:</i> 1.10	<i>Thermal Factor, C_t:</i> 1.00 <i>Flat Roof Snow Load, p_f:</i> 46.2 psf	
Wind Load Criteria:	<i>Basic Wind Speed:</i> 100 mph <i>Terrain Exposure:</i> B <i>Wind Importance Factor, I_w:</i> 1.15	<i>Occupancy Category:</i> III <i>Internal Pressure Coefficients:</i> +0.18/-0.18 <i>Components and Cladding not by CBS:</i> +19.57 psf -26.04 psf	
Seismic Criteria:	<i>Design Category:</i> C <i>Site Class:</i> E <i>Seismic Importance Factor, I_e:</i> 1.25 <i>Occupancy Category:</i> III <i>Analysis Procedure:</i> Equivalent Lateral Force Procedure <i>Basic Seismic Force Resisting Systems:</i> Steel Systems Not Specifically Detailed For Seismic Resistance <i>Response Modification Factors, R:</i> Frame = 3.00 FSW = 3.00 BSW = 3.00 <i>Seismic Response Coefficients, C_s:</i> Frame = 0.165 FSW = 0.202 BSW = 0.202 <i>Seismic Base Shear, V:</i> Longitudinal = 78.49 kips Transverse = 67.63 kips	<i>S_s:</i> 0.320 <i>S₁:</i> 0.080 <i>S_{ds}:</i> 0.486 <i>S_{d1}:</i> 0.187	
Mezzanine Loads:	<i>Dead Load:</i> N/A <i>Collateral Load:</i> N/A <i>Live Load:</i> N/A	Additional Loads: N/A	

Certification by Engineer

I, T. James Eisenman, Jr., P.E., a licensed engineer in the State of Maine, 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