



Robertson Building Systems

An NCI Company

1343 Sandhill Dr.
Ancaster, Ontario L9G 4V5
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May 01, 2014

TORO STEEL BUILDINGS INC
1405 DENISON STREET
MARKHAM, ON L3R-5V2

14-B-47022
GANESH VENAKATARAMAN
SAN MARTIN, CA
40'-0" x 100'-0" x 25'-0"

To Whom It May Concern:

This is to certify that materials for the subject structure have been designed in accordance with the order documents, specifically as shown per the attached Engineering Design Criteria Sheet.

Aspects of code compliance as related to use or occupancy, such as sprinkler requirements, are not addressed by these documents.

These materials, when properly erected on an adequate foundation in accordance with the erection drawings as supplied and using the components as furnished, will meet the attached loading requirements.

This certification does not cover field modifications or the design of materials not furnished by Robertson Building Systems.

The attached design criteria information is to remain with and form part of this Letter of Certification.

The calculations and the metal building they represent are the product of Robertson Building Systems or a division of its affiliate NCI Building Systems. The engineer whose seal appears hereon is employed by either Robertson Building Systems or a division of its affiliate NCI Building Systems and is not the engineer of record for this project.

Cordially,

Robertson Building Systems
Materials for Metal Buildings
An NCI Company

Bejun Anklesaria, P.E.
Engineer IV





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Building Code CBC 13
Risk Category II - Normal

Roof Dead Load
Superimposed..... 2.000 psf
Collateral..... 4.5 psf
Roof Live Load..... 12/20.00 psf

Snow
Ground Snow Load (Pg)..... 20.0000 psf
Snow Load Importance Factor (Is) 1.0000
Flat Roof Snow Load (Pf)..... 20 psf
Snow Exposure Factor (Ce)..... 1.0
Thermal Factor (Ct)..... 1.00

Wind
Ultimate Wind Speed 110 mph
Wind Exposure Category C
Internal Pressure Coef (GCpi) 0.18/-0.18
Loads for components not provided by building manufacturer
Corner Areas 29.826 psf pressure -39.861 psf suction
Other Areas 29.826 psf pressure -32.354 psf suction
These values are the maximum values required based on a 10 sq ft area.
Components with larger areas may have lower wind loads.

Seismic
Seismic Importance Factor (Ie) 1.00
Seismic Design Category..... E
Soil Site Class..... D Stiff Soil
Ss..... 2.3707 g Sds 1.0000 g
S1..... 0.9072 g Sd1 0.9070 g
Analysis Procedure..... Equivalent Lateral Force
Column Line All All(Front) All(Back)
Basic Force Resisting System C4 B4 B4
Response Modification Coefficient (R) 3.25 3.25 3.25
System Over-Strength Factor (Omega) 3.0000 2.0000 2.0000
Seismic Response Coefficient (Cs) 0.308 0.308 0.308
Design Base Shear in kips (V) Transverse 12.72 Longitudinal 12.68
Basic Structural System (from ASCE 7-05 Table 12.1-1)
H - Steel System not Specifically Detailed for Seismic Resistance
C4 - Steel Ordinary Moment Frames
B4 - Steel Ordinary Concentric Braced Frames
G3 - Cantilevered Column System

