CANADIAN SHEET STEEL BUILDING INSTITUTE

Certificate of Design and Manufacturing Conformance for the Steel Building System Described

This Certificate is to affirm that all components of the Steel Building System described below, to be supplied by the named Manufacturer, have been or will be designed and fabricated in accordance with the following Standards to carry the loads and load combinations specified.

1. DESCRIPTION

Manufacturer's Name and Address _____
Manufacturer's Order Number _____
Customer Order Number _____
Building Type and Size _____
Intended Use and Occupancy _____
Importance Factor _____
Site Location _____
Applicable Building Code _____
Builder's Name and Address _____
Owner's Name and Address _____

2. DESIGN STANDARDS

Engineer's Initials

National Building Code of Canada, Part 4 Structural Design _____
CAN/CSA S16.1 Steel Structures for Buildings _____
CAN/CSA S136 Cold Formed Steel Structural Members _____

3. MANUFACTURING STANDARDS

(a) Fabrication has been or will be in accordance with CAN/CSA S16.1 and CAN/CSA S136, as applicable _____

(b) Welding has been or will be performed in accordance with CSA W59 and CAN/CSA S136, as applicable _____

(c) The Manufacturer has been approved by the Canadian Welding Bureau, in accordance with CSA W47.1, for Division 1 or Division 2 _____

(d) Welders have been certified by the Canadian Welding Bureau, in accordance with CSA W47.1 _____

4. PURLIN STABILITY

Purlin braces are provided in accordance with CAN/CSA S136, Clause 8. In particular, for a standing seam roof supported on movable clips, braces providing lateral support to both top and bottom purlin flange have been or will be provided. The number of rows is determined by analysis but in no case is less than 1 for spans up to 7 m (23 ft) inclusive or less than 2 for spans greater than 7 m (23 ft.) _____

(Continued over)

5. LOADS

Engineer's Initials

(a) Snow Load

ground snow load, S_0, _____ (kPa) (psf) _____

basic roof snow load, S, _____ (kPa) (psf) _____

drift load calculated for height difference of _____(m) (ft) _____

(b) Unbalanced Snow Load

(i) applied on any one and any two adjacent spans of continuous purlins _____

(ii) applied on any one and any two adjacent spans of modular rigid frames with continuous roof beams _____

(iii) applied as described for the building geometry in NBC Part 4 and in the Supplement to NBC, Commentary on Snow Loads _____

(c) Wind Load

hourly wind pressure for structural components_____ (kPa) (psf) _____

hourly wind pressure for cladding _____ (kPa) (psf) _____

probabilities for above 1/_____ and 1/_____ respectively _____

(d) Wind Load Application

(i) applied as per NBC Part 4, Section 4.1 _____

(ii) pressure coefficients as per Supplement to NBC, Commentary on Wind Loads, figures B6 thru B8 and B11 _____

(e) Crane Loads (where applicable)

type_____ (top-running) (under-running) (jib) _____

capacity _____ (tonnes) (tons) _____

maximum wheel load _____ (kN) (kips) _____

wheel base _____ (m) (ft) _____

(f) Mezzanine Live Load _____ (kPa) (psf) _____

(g) Seismic Load:

applied a per NBC, Part 4, Section 4.1 _____

Z_a _____ Z_v _____ V_____ _____

(h) Other Live Loads (specify)

_____ _____

(j) Dead Loads:

weight of Steel Building System structure as calculated by SBS Manufacturer _____ (kPa) (psf) _____

collateral load (mechanical, electrical, ceiling, sprinklers) etc) _____ (kPa) (psf) _____

mezzanine _____ (kPa) (psf) _____

other (specify)_____( ) _____

(k) Load Combinations

(i) applied in accordance with NBC, Part 4, Section 4.1 _____

(ii) for the combinations D+L, D+Q, and D+T there is no load reduction or increase in allowable stress _____

(iii) vertical and lateral crane load applied without reduction, in combination with full specified snow _____

6. CERTIFICATION BY ENGINEER

I _____, a Professional Engineer registered or licensed to practice in the Province or Territory of _____, hereby certify that I have reviewed the design and manufacturing process for the Steel Building System described. I certify that the foregoing statements, initialled by myself, are true.

Signature_____

Name_____

Title_____

Affiliation_____

Date_____

Professional Seal