Certificate of Design and Manufacturing Conformation with NBC, *1995*

This certificate is to affirm that all components of the steel building system described below, to be supplied by the named manufacturer certified in accordance with CSA A660, 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 :	**Star Building Systems, Lockeford, CA, and Monticello, IA**
Manufacturer's Certificate No. under CSA A660 :	**Lockeford STABUO, Monticello STARMO**
Customer Order Number :	**11-B-72753**
Building Type and Size :	**SRHI 60 x 100 x 18 (feet units)**
Intended Use and Occupancy :	**Warehouse**
Importance Factor (*NBC*, Clause 4.1.3.2.(7)) :	**1**
Site Location :	**53113C Hwy 21, Sherwood Park, Alberta**
Applicable Building Code:	**1997 Alberta**
Builder's Name and Address :	**Allied Steel, 6400 N Andrews Ave. #200, FT Lauderdale, FL 33309**
Owner's Name and Address :	**DJ Holdings, 53113C Hwy 21, Sherwood Park, Alberta**

2. DESIGN STANDARDS

Engineer's Initials*

National Building Code of Canada, 1995, Part 4: *Structural Design*

CAN/CSA-S16-01, *Limit States Design of Steel Structures*

CAN/CSA-S136-01, *North American Specification for the Design of Cold-Formed Steel Structural Members*

Other (Specify) _____ dated _____

3. MANUFACTURING STANDARDS

(a) Fabrication has been or will be in accordance with CAN/CSA-S16 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 certified in accordance with CSA W47.1, for Division 1.

(d) Welders have been qualified in accordance with CSA W47.1.

4. PURLIN STABILITY

Purlin braces are provided in accordance with CAN/CSA-S136, Clause D3 and Appendix B, Clause D3.2.3. 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 the analysis but no case is less than 1 for spans up to 7m inclusive or less than 2 for spans greater than 7m.

5.LOADS

(a) Snow,Ice, and Rain Load

Ground snow load,Ss,	**1.60** (kPa)	**33.42** (psf)
Snow exposure factor,	**1**	
Roof snow load, S,	**1.38** (kPa)	**28.82** (psf)
Associated rain load, Sr,	**0.10** (kPa)	**2.09** (psf)

considering roof size per *NBC*,Clause 4.1.7.1.7(b)

Drift loads considered (*NBC*, Clause 4.1.7.1.7(c.)) refer to drawig of specific building.

Specified rain load (*NBC*, Clause 4.1.7.3) **N/A** (mm)

**Initial each true statement. Mark N/A if statement does not apply.*

(b) Full and Partial Snow Load — Engineer's Initials* DW

(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 User's Guide - *NBC* 1995 Structural Commentaries (Part 4), *Commentary H:Snow Loads*

(c.) Wind Load — DW

Reference velocity pressure for structural components **0.45** (kPa) **9.40** (psf)

Reference velocity pressure for cladding **0.32** (kPa) **6.68** (psf)

Probabilities for above **1/30** **and** **1/10** respectively

Importance factor **1**

(d) Wind Load Application — DW

(i) Applied as per *NBC*, Part 4, Section 4.1.8

(ii) Pressure coefficients as per User's guide - *NBC* 1995 Structural Commentaries (Part 4), *Commentary B: Wind Loads*, figures B7 through B13

(iii) Building internal pressure Category **2** per User's Guide - *NBC* 1995 Structural Commentaties (Part 4), Commentary B: Wind Loads, Item 37

(e) Crane Loads (where applicable) — DW

Type **N/A** (top running)(under-running)(jib)

Capacity **0.00** (metrc tons)

Wheel base **0.00** (m) **0.00** (ft)

Maximum static vertical wheel load **0.00** (kN) **0.00** (kips)

Vertical impact factor **0** %

Lateral Factor **0** %, lateral wheel load **0.00** (kN) **0.00** (kips)

Longitudinal factor **0** %, max.long.load **0.00** (kN)/side **0.00** (kips/side)

(f) Mezzanine Live Load **0.00** (kPa) **0.00** (psf) — DW

(g) Seismic Load: — DW

Applied as per NBC, Part 4, Section 4.1.9 **Za = 0, Zv = 1, v = 0.05, I = 1, F = 1.5**

(h) Other Live Loads (specify) — DW

N/A

(i) Dead Loads — DW

Dead load of building components is incorporated in the design

Collateral load (mechanical, electrical etc.) **0 psf 0 kPa**

Ceiling **0 psf 0 kPa** Sprinklers **0 psf 0 kPa**

Mezzanine **0.00** (kPa) **0.00** (psf)

Other dead load (specify) **None**

(j) Load Combinations — DW

Applied in accordance with *NBC*, Part 4, Section 4.1.

6. GENERAL REVIEW DURING CONSTRUCTION — DW

The manufacturer does not provide general review during construction for regulatory purposes.

**Initial each true statement. Mark N/A if statement does not apply.*

7. CERTIFICATION BY ENGINEER

I **Dustin L. Cole**, a Professional Engineer registered or licensed to practice in the Province or Territory of **Alberta**, hereby certify that I have reviewed the design and manufacturing process for the steel building system described. I certify that the foregoing statements, initialed by me, are true.

Name **Dustin L. Cole** Signature

Title **Director of Engineering**

Affliation **Star Building Systems** Date ~~4/22/2007~~ 4/26

Professional Seal