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EVALUATION SUBJECT:

Lattice and Solid Patio Cover, Carports and Commercial Structures

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2006 International Building Code® (IBC)
- 2007 California Building Code® (CBC)

Property Evaluated:

Structural

2.0 USES

The components described herein provide a non-enclosed cover for residential as well as commercial applications. Patio covers are intended to be non-habitable structures conforming to Appendix I of the International Building Code.

3.0 DESCRIPTION

3.1 Lattice Cover Components and Connection Details: Lattice cover components and connection details are described in GN01, GN02, SC03, SC04, Lattice 1.0 Rafter Spans for Commercial and Patio Structures, Lattice Cover 2.0 Post Spacings for Patio and Commercial Covers for 90 mph Wind Areas, Lattice Cover 3.0 Post Spacings for Patio and Commercial Covers for High Wind Areas, LT01, LT02, LT03, M1, M3 AND M4.

The lattice beams consist of box and channel sections fabricated from 3004H36 and ASTM A653 Grade 50 steel. The post bases and bracket connections consist of sections fabricated from 6063T6 aluminum. Posts are box sections fabricated from 3004H36, 3105H26 and 6063T6 aluminum and ASTM A653 Grade 40 and ASTM A500 Grade steel. Span tables are provided to facilitate compliance with building codes for various live, snow and wind loads.

3.2 Solid Cover Components and Connection Details: Solid cover components and connection details are described in GN01, GN02, SC01, SC02, SC03, SC04, Solid Cover 4.0 Panel Spans for Commercial and Patio Structures, Solid Cover 5.0 Post Spacings for Patio and Commercial Covers for 90 mph Wind Areas, Solid Cover 6.0 Post Spacings for Patio and Commercial Covers for High Wind Areas, NP01, NP02, NP03, NP04, CD01, CD02, CD03, CD04, CD05, CD06, CD07, CD08, CD09, M1, M2, M3 AND M4. All drawings are dated April 27, 2009.

The roof panels consist of 3004H36 aluminum sections. The roof panels are supported by “J”, “I”, “C” and box sections formed of ASTM A653 Grade 40 and 50 steel, 3004H36, 6061T6 or 6063T6 aluminum. Posts are box sections fabricated from 3004H36, 3105H26 and 6063T6 aluminum and ASTM A653 Grade 40 and ASTM A500 Grade steel. Span tables are provided to facilitate compliance with building codes for various live, snow and wind loads.

4.0 DESIGN AND INSTALLATION

4.1 Design:

Determine the local design loads from the local building department including Live, Wind Speed and Exposure, Ground Snow and Seismic parameters. Determine the type of structure (freestanding or attached, single span or multispan, lattice or solid cover). Select the structural elements (rafter type,

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panel section, header type) that will give the desired spans from the appropriate tables. Select connection details that conform to the structural elements selected. Follow all requirements of the General Notes and Structural Configurations pages.

See General Notes #3 and #20 for limitations of seismic design.

5.0 CONDITIONS OF USE

Patio Covers in this report are intended for non habitable spaces as described in Appendix I of the International Building Code and must meet the requirements of that section. Carports and Commercial structures must use a minimum live load of 20 psf and are exempt from Appendix I requirements. All structures are Occupancy Category II and are not intended to meet the provisions related to hospitals (OSHPD) and public schools (DSA).

6.0 EVIDENCE SUBMITTED

Data and calculations complying with the 2006 IBC and 2007 CBC were submitted.

7.0 IDENTIFICATION

7.1 IAPMO Trademark: Each installation shall bear an original identifying decal or logo bearing the IAPMO shield and reference to this evaluation report thus:

IAPMO ES TM

IAPMO #0113

7.2 Amerimax Trademark: Each installation shall bear an original identifying decal or logo of Amerimax Building Products or Alumawood™ shade structures thus:

Amerimax

Amerimax ALUMAWOOD™

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