EVALUATION REPORT

Report Number: 0114
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DIVISION: 10-SPECIALTIES
Section: 10530—Protective Covers

REPORT HOLDER:
METALS USA BUILDING PRODUCTS
2240 ALBRIGHT DR.
HOUSTON, TX 77017
Phone: (713) 965-0990
www.metalsusa.com

EVALUATION SUBJECT:

Patio Covers using metal lattice beams.

1.0 Evaluation Scope

1.1 Compliance with the following Codes:

- 2006 International Residential Code ® (IRC)
- 2006 International Building Code ® (IBC)

1.2 Evaluated in accordance with:

- ICC AC 340 Dated April 2008

Property Evaluated:

- Structural

2.0 USES

The assemblies described in this report and attached drawings provide a shade structure for residential and commercial applications.

3.0 DESCRIPTION

Lattice cover components and connection details as described in attached drawings (4 sheets) dated 11/13/2007.

The lattice beams consist of box and channel sections fabricated from 3004 H36 aluminum and A653 Grade 50 steel. The post bases and bracket connections consist of sections fabricated from 6063 T6 aluminum and A-36 steel. Posts are box sections fabricated from 3004 H36 aluminum or A653 Grade 50 steel. Span tables are provided to facilitate design in compliance with IBC 2006 but are limited to a maximum of 20 PSF live load and wind speeds of 110 MPH, Exposure C.
The patio structures may be either free standing or attached to the existing residence as depicted in the attached drawings.

4.0 DESIGN AND INSTALLATION

The designer shall follow the procedures shown on the drawings in selecting the appropriate components based on spans, roof live load and wind load conditions.

5.0 CONDITIONS OF USE

The lattice cover patio covers are subject to the following restrictions:

- Installations where columns are attached to concrete slabs or are designed based on 10 PSF live load are subjected to the limitations of Appendix I of the IBC.
- Attachment details to the existing building are reviewed by the local building official and/or a licensed professional engineer.
- The patio cover cannot be enclosed without additional engineering.
- Anchors at slab attached conditions, where permitted, must be designed by a licensed design professional in accordance with Appendix D of ACI 318.

6.0 EVIDENCE SUBMITTED

Structural calculations and drawings.

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7.0 IDENTIFICATION

The products described in this report are identified with a die-stamped label indicating the name of the manufacturer (Metals USA) and the IAPMO ES Mark of Conformity:

Director of Evaluation Services