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# ICC-ES Evaluation Report

# ESR-1398P

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This report is subject to renewal 06/2018.

**DIVISION: 10 00 00—SPECIALTIES**  
**SECTION: 10 73 00—PROTECTIVE COVERS**

**REPORT HOLDER:**

**EURAMAX INTERNATIONAL, INC.,  
d/b/a AMERIMAX EXTERIOR HOME PRODUCTS, INC.**

**303 RESEARCH DRIVE, SUITE 400  
NORCROSS, GEORGIA 30092**

**EVALUATION SUBJECT:**

**AMERIMAX EXTERIOR HOME PRODUCTS—FREESTANDING AND ATTACHED  
ALUMINUM AND STEEL PATIO COVERS, CARPORTS AND  
COMMERCIAL STRUCTURES**



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**DIVISION: 10 00 00—SPECIALTIES**  
**Section: 10 73 00—Protective Covers**

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**EURAMAX INTERNATIONAL, INC., d/b/a AMERIMAX  
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**EVALUATION SUBJECT:**

**AMERIMAX EXTERIOR HOME PRODUCTS—  
FREESTANDING AND ATTACHED ALUMINUM AND  
STEEL PATIO COVERS, CARPORTS AND COMMERCIAL  
STRUCTURES**

**1.0 EVALUATION SCOPE**

1.1 Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)

**Property evaluated:**

Structural

**1.2 Evaluation to the following green code(s) and/or standards:**

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

**Attributes verified:**

See Section 3.1

**2.0 USES**

The Amerimax freestanding and attached aluminum and steel patio covers described in this report comply with Appendix I of the IBC and Appendix H of the IRC. Freestanding and attached carports and commercial structures are used as covers where permitted by the applicable chapters and sections of the IBC, including IBC Section 406 for carports.

**3.0 DESCRIPTION**

**3.1 General:**

The freestanding and attached patio covers, carports and commercial structures must be constructed according to the engineering plans accompanying this report and as indicated in this report. The walls must be unenclosed on three sides for attached patio covers, and on four sides for freestanding patio covers, carports and commercial structures. These products are marketed under the trade name Alumawood™.

The attributes of the patio cover system have been verified as conforming to the provisions of (i) CALGreen Section A4.404.3.3; (ii) ICC 700-2015 and ICC 700-2012 Sections 601.5 and 11.601.4; and (iii) ICC 700-2008 Section 601.5. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

**3.2 Materials:**

**3.2.1 Aluminum:** The aluminum members are roll-formed and extruded shapes of various alloys and tempers, complying with Chapter 20 of the IBC and as specified in the engineering plans accompanying this report.

**3.2.2 Steel:** The steel members are formed from various grades of galvanized steel complying with ASTM A653 and having a minimum galvanized coating designation as specified in the engineering plans accompanying this report.

**3.2.3 Foam Plastic Core Sandwich Panels:** Sandwich panels used with the Amerimax products to form patio covers must be recognized in a current ICC-ES evaluation report for the end use specified in the engineering plans accompanying this report. Installation of sandwich panels must be in accordance with the sandwich panel evaluation report.

**3.2.4 Mechanical Fasteners and Anchors:** Mechanical fasteners and anchors, used for connection among components of the cover structures (including patio covers, carports and commercial structures), and for connection of the attached cover structures to the supporting structures, must be in accordance with the engineering plans accompanying this report.

**4.0 DESIGN AND INSTALLATION**

The design and installation of the patio covers, carports and commercial structures described in this report must be

in accordance with this report and with the accompanying engineering plans dated January 12, 2017 (for the 2015 IBC/IRC); September 29, 2013 (for the 2012 IBC/IRC), October 11, 2011 (for the 2009 IBC/IRC), and June 1, 2010 (for the 2006 IBC/IRC), as referenced in Tables 1, 2, 3 and 4, respectively.

**5.0 CONDITIONS OF USE**

The Amerimax Exterior Home Products Patio Covers, Carports and Commercial Structures described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Construction of the patio covers, carports and commercial structures must comply with this report and with the accompanying engineering plans dated January 12, 2017 (for the 2015 IBC/IRC); September 29, 2013 (for the 2012 IBC/IRC), October 11, 2011 (for the 2009 IBC/IRC), or June 1, 2010 (for the 2006 IBC/IRC), as referenced in Tables 1, 2, 3 and 4, respectively.
- 5.2 Patio covers are limited to use as structures regulated under Appendix I of the IBC or Appendix H of the IRC.
- 5.3 Carports and commercial structures are limited to use as structures regulated by the applicable chapters and sections of the IBC, including IBC Section 406 for carports.
- 5.4 Any unit with a flat roof snow load greater than 30 psf assigned to Seismic Design Categories A, B, C, D, D<sub>0</sub>, D<sub>1</sub>, D<sub>2</sub>, E, or F of either the IBC or IRC, and not complying with Exception 1 of IBC Section 1613.1, is outside the scope of this report, except as permitted in the engineering plans corresponding to the 2015, 2012 and 2009 IBC codes. The 2015 IBC engineering plans address seismic loads with roof snow loads over 30 psf.
- 5.5 Patio covers, carports and commercial structures installed in geographical areas cited in Section 26.8.1 of ASCE 7-10 for the 2015 and 2012 IBC/IRC (Section 6.5.7.1 of ASCE 7-05 for the 2009 and 2006 IBC/IRC) are outside the scope of this report.

- 5.6 Effects of sliding snow described in Section 7.9 of ASCE 7 (-10 for the 2015 and 2012 IBC and IRC, -05 for the 2009 and 2006 IBC and IRC) are outside the scope of this report.
- 5.7 The minimum uniform live load for patio covers must be 10 psf (47.88 Pa). The minimum uniform live load for carports or commercial structures must be 20 psf (95.76 Pa).
- 5.8 For attached patio cover structures, the mean roof height of the structure to which the patio cover is attached must not exceed 30 feet (9.1 m).
- 5.9 For attached units, the loads that are to be resisted by the structures to which the patios, carports and commercial structures are attached, as applicable, are provided in the accompanying plans. The adequacy of the structures that support the additional loading from the attached units must be justified, by a registered design professional, when required by the jurisdiction where the project is located, and the justification is subject to the approval of the code official.
- 5.10 Plans, details and specifications concerning proper installation of the patio cover, carports, and commercial structures that are applicable to the specific building under consideration, must be part of the construction documents submitted to the code official for approval.

**6.0 EVIDENCE SUBMITTED**

Data in accordance with the ICC-ES Acceptance Criteria for Patio Covers (AC340), dated June 2012 (editorially revised May 2016).

**7.0 IDENTIFICATION**

Each structure bears a permanent decal or identifying tag noting the allowable roof live/snow load, design wind speed and exposure, name of the manufacturer, and the ICC-ES evaluation report number (ESR-1398P).

**TABLE 1—ENGINEERING PLANS (DATED JANUARY 12, 2017) FOR AMERIMAX EXTERIOR HOME PRODUCTS ALUMINUM AND STEEL PATIO COVERS, CARPORTS AND COMMERCIAL STRUCTURES (FOR THE 2015 IBC/IRC)**

DRAWING NUMBER	NUMBER OF PAGES	SECTION DESCRIPTION OR DRAWING TITLES
	1	TABLE OF CONTENTS
GN01-2015 GN02-2015	2	GENERAL NOTES
SC01-2015	1	SOLID PANEL STRUCTURAL CONFIGURATIONS
SC02-2015	1	ALUMAWOOD STRUCTURAL CONFIGURATIONS
<b>Lattice Cover Components and Connection Details</b>		
	1	SECTION 1.0 LATTICE COVER INSTRUCTIONS AND POST TABLES
	2	LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES
	22	LATTICE COVER 2.0 POST SPACING, POST TYPE AND FOOTING SIZE FOR LATTICE COVER
LT01-2015 LT02-2015 LT03-2015 LT04-2015	4	COMPONENT PARTS AND CONNECTION DETAILS FOR LATTICE STRUCTURES
<b>Solid Cover Components and Connection Details</b>		
	1	SECTION 4.0 SOLID COVER INSTRUCTIONS AND POST TABLES
	3	SECTION 4.0 SOLID COVER PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES
	23	SECTION 5.0 POST SPACINGS, POST TYPE AND FOOTING FOR SOLID COVERS
NP01-2015 NP02-2015 NP03-2015 NP04-2015	4	COMPONENT PARTS AND CONNECTION DETAILS FOR NEWPORT PATIO STRUCTURES
CD01-2015 CD02-2015 CD03-2015 CD04-2015 CD05-2015 CD06-2015 CD07-2015 CD08-2015 CD09-2015	9	COMPONENT PARTS AND CONNECTION DETAILS

**TABLE 1—ENGINEERING PLANS (DATED JANUARY 12, 2017) FOR AMERIMAX EXTERIOR HOME PRODUCTS ALUMINUM AND STEEL PATIO COVERS, CARPORTS AND COMMERCIAL STRUCTURES (FOR THE 2015 IBC/IRC) (Continued)**

DRAWING	PAGES	SECTION DESCRIPTION
<b>Miscellaneous</b>		
Misc1a-2015	1	MISCELLANEOUS DETAILS
Misc1b- 2015	1	MISCELLANEOUS DETAILS (BASE PLATE STUB POST DETAILS)
Misc2-2015	1	MISCELLANEOUS DETAILS (FAN BEAM DETAILS)
Misc3-2015	1	7.0 POST AND FASTENER REQUIREMENTS FOR COMMERCIAL AND PATIO COVER STRUCTURES
Misc4-2015	1	7.0 CONCRETE FOOTING OPTIONS
Misc5a-2015 Misc5b-2015	2	7.0 REQUIREMENTS FOR SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS FOR SINGLE SPAN ATTACHED LATTICE STRUCTURES
Misc6-2015	1	7.0 FORCES ON EXISTING BUILDING
Misc7-2015	1	STRUCTURAL PROPERTIES OF BEAMS, FASCIA, PANELS AND RAFTERS FOR USE BY DESIGN PROFESSIONALS
Misc8-2015	1	CONCRETE SLAB REQUIREMENTS FOR CONSTRAINED FOOTINGS

**TABLE 2—ENGINEERING PLANS (DATED SEPTEMBER 29, 2013) FOR AMERIMAX EXTERIOR HOME PRODUCTS ALUMINUM AND STEEL PATIO COVERS, CARPORTS AND COMMERCIAL STRUCTURES (FOR THE 2012 IBC/IRC)**

DRAWING	PAGES	SECTION DESCRIPTION
	1	TABLE OF CONTENTS
	1	PROFESSIONAL ENGINEERING STAMPS
GN01-2012 GN02-2012	2	GENERAL NOTES
SC01-2012	1	SOLID PANEL STRUCTURAL CONFIGURATIONS
SC02-2012	1	ALUMAWOOD STRUCTURAL CONFIGURATIONS
<b>Lattice Cover Components and Connection Details</b>		
	4	LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES
	4	LATTICE COVER 2.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS NORMAL WIND AREAS
	4	LATTICE COVER 3.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS HIGH WIND AREAS
LT01-2012 LT02-2012 LT03-2012 LT04-2012	4	COMPONENT PARTS AND CONNECTION DETAILS FOR LATTICE STRUCTURES
<b>Solid Cover Components and Connection Details</b>		
	2	SOLID COVER 4.0 PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES
	10	SOLID COVERS 5.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS IN 115 MPH WIND AREAS
	10	SOLID COVER 6.0 POST SPACINGS FOR PATIO AND COMMERCIAL COVERS HIGH WIND AREAS
NP01-2012 NP02-2012 NP03-2012 NP04-2012	4	COMPONENT PARTS AND CONNECTION DETAILS FOR NEWPORT PATIO STRUCTURES
CD01-2012 CD02-2012 CD03-2012 CD04-2012 CD05-2012 CD06-2012 CD07-2012 CD08-2012 CD09-2012	9	COMPONENT PARTS AND CONNECTION DETAILS

**TABLE 2—ENGINEERING PLANS (DATED SEPTEMBER 29, 2013) FOR AMERIMAX EXTERIOR HOME PRODUCTS ALUMINUM AND STEEL PATIO COVERS, CARPORTS AND COMMERCIAL STRUCTURES (FOR THE 2012 IBC/IRC) (Continued)**

DRAWING	PAGES	SECTION DESCRIPTION
<b>Miscellaneous</b>		
Misc1a-2012	1	MISCELLANEOUS DETAILS
Misc1b- 2012	1	MISCELLANEOUS DETAILS (BASE PLATE STUB POST DETAILS)
Misc2-2012	1	MISCELLANEOUS DETAILS (FAN BEAM DETAILS)
Misc3-2012	1	7.0 POST AND FASTENER REQUIREMENTS FOR ALL STRUCTURES
Misc4-2012	1	7.0 FOOTING AND SLAB ATTACHMENT TABLES
Misc5a-2012 Misc5b-2012	2	7.0 REQUIREMENTS FOR SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS
Misc6-2012	1	7.0 FORCES ON EXISTING BUILDING
Misc7-2012	1	STRUCTURAL PROPERTIES OF BEAMS, FASCIA, PANELS AND RAFTERS FOR USE BY DESIGN PROFESSIONALS
Misc8-2012	1	CONCRETE SLAB REQUIREMENTS FOR CONSTRAINED FOOTINGS

**TABLE 3—ENGINEERING PLANS (DATED OCTOBER 11, 2011) FOR AMERIMAX EXTERIOR HOME PRODUCTS ALUMINUM AND STEEL PATIO COVERS, CARPORTS, AND COMMERCIAL STRUCTURES (FOR 2009 IBC/IRC)**

DRAWING	PAGES	SECTION DESCRIPTION
	1	TABLE OF CONTENTS
	1	PROFESSIONAL ENGINEERING STAMPS
GN01-2009 GN02-2009	2	GENERAL NOTES
SC01-2009	1	SOLID PANEL STRUCTURAL CONFIGURATIONS
SC02-2009	1	ALUMAWOOD STRUCTURAL CONFIGURATIONS
<b>Lattice Cover Components and Connection Details</b>		
	1	LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES
	4	LATTICE 2.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURS IN 90 MPH WIND AREAS
	4	LATTICE 3.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS
LT01-2009 LT02-2009 LT03-2009	3	COMPONENT PARTS AND CONNECTION DETAILS FOR LATTICE STRUCTURES
<b>Solid Cover Components and Connection Details</b>		
	2	SOLID COVER 4.0 PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES
	10	SOLID COVER 5.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN 90 MPH WIND AREAS
	10	SOLID COVER 6.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS
NP01-2009 NP02-2009 NP03-2009 NP04-2009	4	COMPONENT PARTS AND CONNECTION DETAILS FOR NEWPORT PATIO STRUCTURES
CD01-2009 CD02-2009 CD03-2009 CD04-2009 CD05-2009 CD06-2009 CD07-2009 CD08-2009 CD09-2009	9	COMPONENT PARTS AND CONNECTION DETAILS
<b>Miscellaneous</b>		
M1-2009	1	MISCELLANEOUS DETAILS
M2-2009	1	MISCELLANEOUS DETAILS (FAN BEAM DETAILS)
M3-2009	1	7.0 POST AND FASTENER REQUIREMENTS FOR ALL STRUCTURES
M4-2009	1	7.0 FOOTING AND SLAB ATTACHMENT TABLES
M5-2009	1	7.0 REQUIREMENTS FOR SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS
M6-2009	1	7.0 FORCES ON EXISTING BUILDING
M7-2009	1	STRUCTURAL PROPERTIES OF BEAMS, FASCIA, PANELS AND RAFTERS FOR USE BY DESIGN PROFESSIONALS
M8-2009	1	CONCRETE SLAB REQUIREMENTS FOR CONSTRAINED FOOTINGS

**TABLE 4—ENGINEERING PLANS (DATED JUNE 1, 2010) FOR AMERIMAX EXTERIOR HOME PRODUCTS ALUMINUM AND STEEL PATIO COVERS, CARPORTS, AND COMMERCIAL STRUCTURES (FOR 2006 IBC/IRC)**

DRAWING	PAGES	SECTION DESCRIPTION
GN01-2006.DWG GN02-2006.DWG SC01-2006.DWG SC02-2006.DWG	4	GENERAL NOTES AND STRUCTURAL CONFIGURATIONS
<b>Lattice Cover Components and Connection Details</b>		
	1	LATTICE 1.0 RAFTER SPANS FOR COMMERCIAL AND PATIO STRUCTURES
	4	LATTICE 2.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN 90 MPH WIND AREAS
	4	LATTICE 3.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS
LT01.DWG LT02.DWG LT03.DWG	3	COMPONENT PARTS AND CONNECTION DETAILS FOR LATTICE STRUCTURES
<b>Solid Cover Components and Connection Details</b>		
	2	SOLID COVER 4.0 PANEL SPANS FOR COMMERCIAL AND PATIO STRUCTURES
	10	SOLID COVER 5.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN 90 MPH WIND AREAS
	10	SOLID COVER 6.0 POST SPACINGS FOR LATTICE PATIO AND COMMERCIAL STRUCTURES IN HIGH WIND AREAS
NP01.DWG NP02.DWG MP03.DWG MP04.DWG	4	COMPONENT PARTS AND CONNECTION DETAILS FOR NEWPORTS
CD01-2006.DWG CD02-2006.DWG CD03-2006.DWG CD04-2006.DWG CD05-2006.DWG CD06-2006.DWG CD07-2006.DWG CD08-2006.DWG CD09-2006.DWG	9	COMPONENT PARTS AND CONNECTION DETAILS
<b>Miscellaneous</b>		
M1-2006.DWG	1	MISCELLANEOUS DETAILS
M2-2006.DWG	1	FAN BEAM DETAILS
M3	1	7.0 POST AND FASTENER REQUIREMENTS FOR ALL STRUCTURES
M4	1	7.0 FOOTING AND SLAB ATTACHMENT TABLES
M5	1	7.0 REQUIREMENTS FOR SURFACE MOUNTED POSTS ON CONCRETE SLABS OR FOOTINGS
M6	1	7.0 LOADS ON EXISTING BUILDING
M7	1	DESIGN PROPERTIES OF ALUMINUM AND STEEL BEAMS, HEADERS, AND SOLID PANELS