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CEDA-ALUM PATIO SYSTEMS RESIDENTIAL PATIO COVERS, CARPORTS, AND COMMERCIAL ROOF STRUCTURES

CSI Sections:

10 73 00 Protective Covers

13 34 00 Fabricated Engineered Structures

1.0 RECOGNITION

Ceda-Alum Patio Cover Systems Residential Patio Covers, Carports, and Commercial Roof Structures recognized in this report have been evaluated for use as recreational, outdoor living purposes associated with a dwelling unit. The structural properties of the Patio Cover Systems, Carports, and Commercial Roof Structures comply with the intent of the provisions of the following codes and regulations:

- 2021, 2018, and 2015 International Building Code® (IBC)
- 2021, 2018, and 2015 International Residential Code® (IRC)
- 2022 and 2019 California Building Code (CBC) – attached supplement
- 2022 and 2019 California Residential Code (CRC) – attached supplement

2.0 LIMITATIONS

Use of the Ceda-Alum patio covers, carports, and commercial roof structures recognized in this report are subject to the following limitations:

2.1 Patio covers shall be associated with one- and two-family dwelling units only and shall be limited to use as structures regulated under Appendix I of the IBC or Appendix H of the IRC.

2.2 Carports and commercial roof structures shall be limited to use as structures regulated by the applicable chapters of the IBC for Risk Category II in accordance with Table 1.5-1 of ASCE/SEI 7. Carports associated with one and two-family dwelling units shall be limited to use as structures regulated by the applicable chapters of the IBC, IRC.

2.3 Structures that are to be used to attach Ceda-Alum patio systems shall be adequate to support the additional loads imposed by the new patio structure. Carports and commercial roof structures to be freestanding only.

2.4 Tabulated plans shall be modified in accordance with the reduction factors shown in the accompanying plans for all patio covers, carports, and commercial roof structures subject to snow drifting and sliding.

2.5 The projection to length ratio of attached structures shall not exceed 2.25, but may be increased to 4.0 when using column and footing details that relate to freestanding patio covers as described in drawings S7.1 and L7.1.

2.6 The minimum roof slope for solid patio cover structures with insulated roof panels (IRP) shall not be less than 0.5 inch per foot (4.17 percent). The minimum roof slope for solid patio cover structures with roll formed panel (RFP) shall not be less than 0.375 inch per foot (3.125 percent). The maximum roof slope is 3 degrees.

2.7 Pertaining to attached patio cover structures, existing structures shall have a minimum width of 29.5 feet (9.0 m), a maximum length of 50.5 feet (15.4 m), a mean roof height of 22.5 feet (6.9 m) or less in Exposure categories C. Existing structure roof slope to be 1.5:12 to 6:12 (12.5 to 50 percent). Maximum roof overhang shall be 24 inches (0.61 m).

2.8 Patio covers that are attached, freestanding, and the existing structure to which the structure is attached shall comply with the scoping requirements of Chapter 26 of ASCE/SEI 7 for regular geometric shape and response characteristics.

2.9 Patio Cover design minimum roof loads are as follows: 10 psf (478.8 Pa) for one- and two-family dwellings and 20 psf (957.6 Pa) for carports and commercial roof structures.

2.10 The cover system shall be limited to use in locations associated with IBC Seismic Design Categories A, B, C, D, or E, and the Response Modification Coefficient R, shall be taken as 1.25. Seismic coefficients S_s and S₁ shall be limited as described in drawing G0.1.

2.11 Sealant and caulking approved by Ceda-Alum shall be used at penetrations in the existing exterior wall surface.

2.12 Foam plastic core roof panels shall comply with an approved evaluation report, Section 4.1.2 of this report, and provide the proper vertical and lateral load capacities as shown in this report.

2.13 Abrupt changes in wind speed up over hills, ridges, or escarpments in accordance with Section 26.8.1 of ASCE/SEI 7 are outside the scope of this report as pertaining to Ceda-Alum patio covers, carports, or commercial structures subject to topographic effects.

2.14 Adding solid enclosure walls and their effect on the structure as built is outside the scope of this report.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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2.15 The Ceda-Alum Patio Systems shall be installed in accordance with the applicable code, the manufacturer's published installation instructions, this report, and the plans accompanying this report, dated January 12, 2023. Where there is a conflict, the more restrictive requirements shall govern.

2.16 Patio covers shall not be enclosed with any type of solid or mesh material unless specifically designed by a registered design professional.

2.17 The Ceda-Alum Patio Systems recognized in this report are produced by Ceda-Alum LLC in Sacramento, CA.

3.0 PRODUCT USE

3.1 General: During the design stage or installation of Ceda-Alum system patio covers, carports, or commercial roof structures, one shall comply with applicable codes, manufacturer's installation instructions, this report, and the accompanying plans and specifications. Loading conditions shall be noted in the plans accompanying this report. Any conflicts will dictate a reversion to the strictest guidelines.

3.2 Design: Considering the design selection of any carport, patio cover, or commercial roof structure one shall adhere to the design criteria as specified in the plans that accompany this report. The use of any carport, patio cover, or commercial project and its location along with code correspondence, applicable code, risk category, ground snow load, roof live load, seismic design category, and frost depths shall be an addendum to this report and plan.

3.3 Installation: Considering the use of the selected components to be used based on the design of any carport, patio cover, or commercial roof structure within this report and the accompanying plans, the more stringent requirements shall govern if any conflicts occur. The attached patio covers shall be open on at least 3 sides. Carports are to be open on at least 2 sides. Carport floor surfaces shall be of approved noncombustible materials and sloped in accordance with IBC Section 406.2.4 or IRC Section R309.2.

4.0 PRODUCT DESCRIPTION:

Patio covers, commercial roof structures, and carports by Ceda-Alum LLC are optioned as attached or freestanding both solid and lattice designs. All structures shall be constructed in accordance with this report and the accompanying plans. Freestanding patio covers, carports, and commercial roof structures shall be open on all 4 sides.

4.1 Materials:

4.1.1 Aluminum: The structural members of these components are roll-formed or extruded aluminum in various alloys and tempers, in accordance with this report and the accompanying approved plans.

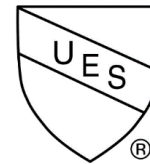
4.1.2 LRP Roof Panels: Laminated polystyrene roof panels "sandwich panels" consist of an attachment ledger, trim, and extruded aluminum gutters. The LRP roof panels sandwiched by aluminum skins to a polystyrene core are outside the scope of this report and shall comply with an approved evaluation report.

4.1.3 Fasteners: Fasteners include steel and aluminum bolts, lag screws, wood screws, self-drilling screws, sheet metal screws and post-installed anchors as specified in the plans accompanying this report.

4.1.4 Steel: Steel members as described in this report and the accompanying plans are of various grades and comply with ASTM A500 Grade B, and ASTM A653 SS Grade 50. The steel framing members have a galvanized coating of G60 or greater.

5.0 IDENTIFICATION

Ceda-Alum Patio Cover Systems, Carports and Commercial Structures is identified by the Ceda-Alum name and trademark, product name, and evaluation report number (ER-783). The IAPMO Uniform Evaluation Service Mark of Conformity may also be used as shown below:



IAPMO UES ER-783

6.0 SUBSTANTIATING DATA

Data complying with the ICC-ES Acceptance Criteria for Patio Covers (AC340) approved August 2018, editorially revised August 2021, including quality control manuals (Ceda-Alum Canopy Systems), product drawings, and installation instructions.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Ceda-Alum Patio Cover Systems Residential Patio Covers, Carports, And Commercial Roof Structures to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at locations noted in Section 2.17 of this report under a quality control program with periodic inspection under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org



CALIFORNIA SUPPLEMENT

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1.0 RECOGNITION

The Ceda-Alum Patio Systems Residential Patio Covers, Carports, and Commercial Roof Structures, as evaluated and represented in IAPMO UES Evaluation Report ER-783 and with changes as noted in this supplement, is a satisfactory alternative for use in buildings built under the following codes (and regulations):

- 2022 and 2019 California Building Code (CBC)
- 2022 and 2019 California Residential Code (CRC)

2.0 LIMITATIONS

Use of the Ceda-Alum patio covers, carports, and commercial roof structures recognized in this report supplement are subject to the following limitations:

2.1 Ceda-Alum patio systems shall be constructed in accordance with this Evaluation Report ER-783 and the accompanying plans dated January 12, 2023. The systems shall also be built in accordance with California Building and Residential Codes. Where there is a conflict, the more restrictive requirements shall govern.

2.2 The Ceda-Alum patio systems shall comply with the provisions in IAPMO UES ER-783 applicable to the 2021 IBC or IRC for use under the 2022 CBC or 2022 CRC, or the 2018 IBC or 2018 IRC for use under the 2019 CBC or 2019 CRC.

2.3 Any installation within a Fire Hazard Severity Zone or Wildland - Urban Interface Fire Area shall comply with the specified areas applicable guidelines and requirements.

2.4 This supplement expires concurrently with ER-783.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org