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RESEARCH REPORT: RR 26195
(CSI # 07410)

Expires : May 1, 2023
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Code : 2020 LABC

GENERAL APPROVAL – Renewal - CENTRIA Intercept Non-Structural Metal Wall Cladding System

DETAILS

The CENTRIA Intercept modular metal cladding system is formed from aluminum alloy (3003, 3105, or 5005), zinc alloy (710 alloy), copper alloy (C11000), and high-chromium stainless steel (Chromeshield-22). The main panel component includes a flat pan with return edges on all sides, outwardly along each folded-bend and inwardly along the remaining edges.

Material	Thickness	Height
Aluminum Alloy (ASTM B209)	0.060 inch min.	48-inch max.
Zinc Alloy (ASTM B69)	0.048-inch (1.2 mm) min.	30-inch max.
	0.060-inch (1.5 mm) min.	
Copper Alloy (ASTM B370 & B69)	0.050-inch min.	26-inch max.
High-Chromium Stainless Steel (ASTM A240)	0.050-inch (1.27 mm) min.	42-inch max.

Aluminum cladding system panels shall be coil-coated or painted (AAMA 2605). CENTRIA cladding system panels are available in various sizes. Intercept panel widths range from 12.5 inches to 48 inches with panel lengths up to 12 feet—maximum panel module (48 inches) cannot be fabricated to maximum panel length (12’-0”) due to manufacturing limitations related to panel aspect ratio.

Intercept panels can be manufactured for both a horizontal and vertical orientation. The sequence of installation can proceed horizontally or vertically, left-to-right, right-to-left, or bottom-to-top. Aluminum starter extrusions (ASTM B221) provide an initial engagement location for the first panel, fastened to available supports spaced at 16 inches on center into 16 gauge minimum steel with a mechanical fastener; standard CENTRIA fasteners used for panel attachment are ¼-14, 304 stainless steel fasteners . The next row of panels is installed with the bottom edges interlocking with the "hook-and-grab" extrusion of an adjacent panel, creating one of the panel's primary structural engagements. Custom flashing is fabricated to meet project-specific conditions within building envelope. Flashing shall be installed per Section 1405.4 of the 2020 Los Angeles Building Code.

The Intercept Modular Panel System shall be installed over a weather resistive barrier complying with Sections 1403.2 and 1405.2 of the 2020 Los Angeles Building Code.

Acceptable substrates include 16 gauge minimum cold-formed metal framing, 5/8-inch thick plywood, concrete, or masonry block. An air space shall be provided between inside face of panel and the face of the substrate to facilitate air flow and water evaporation.

The allowable positive and negative panel out-of-plane (transverse) loads for panels are based on positive and negative wind load as set forth in attached tables.

The approval is subject to the following conditions:

1. The CENTRIA Intercept Modular Metal Panel system shall be installed in accordance with the manufacturer's published installation instructions and this general approval.

2. The approval of the structural substrate to which the CENTRIA Modular Metal Panel system is attached is beyond the scope of this approval. Structural calculations demonstrating the capacity of the substrate to support imposed loads must be submitted to the Structural Plan Check Section for review and approval. The calculations shall be signed and sealed by a licensed civil or structural engineer registered in the State of California.
3. The design and detailing of panel attachment to building substrate based on site specific loading conditions shall be submitted to the Structural Plan Check Section for review and approval for each project. Panel fasteners shall be approved for use by the Department. The design and detailing of the panel attachment shall be signed and sealed by a licensed civil or structural engineer registered in the State of California.
4. Panels are manufactured in Frankfort, KY under a quality control program, with inspections by Farabaugh Engineering and Testing (FET).
5. Each panel shall be labeled with the manufacturer name (CENTRIA), manufacturing address, product name, production date and LARR No. 26195.

DISCUSSION

The report is in compliance with the 2020 Los Angeles City Building Code.

The approval is based on tests in accordance with the following standards:

- ASTM E72, Standard Test Methods of Conducting Strength Tests of Panels for Building Construction.
- ASTM E330, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
- AAMA 508 (if required), Voluntary Test Method and Specification for Pressure Equalized Rainscreen Wall Cladding Systems.
- ASTM E1886, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
- ASTM E1996, Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

Addressee to whom this Research Report is issued is responsible for Providing copies of it, complete with any attachments indicated, to architects, engineer and builders using items approved herein in design or construction which must be approved by the Department of Building Safety Engineers and Inspectors.

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Attachment: Allowable Wind Load Tables (14 pages)