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Local Representative:  
Luis Cadena  
(203) 262-9245

RESEARCH REPORT: RR 26079  
(CSI # 07 42 13)

Expires: February 1, 2020  
Issued Date: February 1, 2018  
Code: 2017 LABC

**GENERAL APPROVAL** – Renewal – Dri-Design, Non-Structural Metal Wall Cladding System

## DETAILS

The Dri-Design cladding system panels are formed from aluminum alloy (3003-H14 or 5005-H34) or zinc alloy (ASTM B69, Type I) and are manufactured in the thicknesses outlined in the Table below.

Material	Thickness	Height
Aluminum Alloy	Min. 0.080-inch	Max. 48-inch
Zinc Alloy	Min. 0.040-inch	Max. 18.5-inch
	Min. 0.060-inch	Max. 32-inch

Aluminum cladding system panels may be painted (AAMA 2605) or coated (AAMA 611). Dri-Design cladding system panels are available in various sizes, as outlined in the Table below.

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Dri-Design, Inc.

RE: Aluminum Non-Structural Metal Wall Cladding System.

<b>Aluminum</b>		
Finish Options:	PVDF Paint, Anodized Coating	
Size Parameter Options:	Width (inch)	Height (inch)
	24	72
	120	24
	48	48
	60	30
<b>Zinc</b>		
Finish Options:	Quartz, Anthra, Pigmento Series, Azengar, Natural	
1.5mm Size Parameter Options:	Width (inch)	Height (inch)
	24	72
	120	24
	32	32
1.0mm Size Parameter Options:	24	72
	72	24
	24	24

The sequence of installation proceeds laterally, bottom to top, with the first row of panels being captivated at the sill condition and anchored only at the head of the panels, utilizing screws located approximately 1” from the ends and spaced 8” to 16” on center (See Panel Attachment details in Table below). The next row of panels is installed with the bottom edges of the panels engaging/interlocking with the head of the panels below. Aluminum extrusion or formed metal aluminum or zinc trim is used at the perimeter of the cladding system to provide a finished appearance. Aluminum extrusions or formed metal aluminum or zinc trims are fastened to the wall with screws spaced approximately 16” on center. The perimeter trim or extrusion starters are flashed and sealed to the weather barrier using a 4” flashing tape. Flashing tape is applied to the weather barrier and overlaps the trim or extrusion anchorage fasteners. At the sill detail, ¼” diameter weep holes are used the trim or extrusion approximately 1” from the ends and maximum 8” on center. See attached installation details.

The Dri-Design cladding system is installed over various approved substrates including 5/8” thick plywood, min. 14 ga. Steel girts and/or hat channels, masonry block or brick (see Condition #4). A weather barrier is employed at the exterior surface of the sheathing onto which the aluminum panel system is installed. The weather barrier shall be installed, taped/sealed, per the manufacturer’s installation instructions.

Dri-Design, Inc.

RE: Aluminum Non-Structural Metal Wall Cladding System.

Dri-Design Panel		Panel Attachment			Positive / Negative Wind Pressures (psf)
Material	Min. Thickness	Component Attached	Fasteners	Maximum Fastener Spacing	
Aluminum	0.080-inch	Min. 0.080" aluminum J-Channel at wall sill	#12 x 1" self-tapping, pancake head screws	8" o.c.	+65.0 / -65.0
		Min. 0.080" aluminum closure at wall terminations	#12 x 1" self-tapping, pancake head screws	16" o.c.	
		Integral Horizontal Flange	#12 x 1" self-tapping, pancake head screws	16" o.c.	
Zinc	0.040-inch	Min. 0.040" zinc J-Channel at wall sill	#8 x 3/4" self-tapping, pancake head screws	8" o.c.	+41.4 / -50.6
		Min. 0.040" zinc closure at wall terminations	#8 x 1-5/8" self-tapping, pancake head screws	16" o.c.	
		Integral Horizontal Flange	#8 x 3/4" self-tapping, pancake head screws	8" o.c.	
Zinc	0.060-inch	Min. 0.060" zinc J-Channel at wall sill	#8 x 3/4" self-tapping, pancake head screws	8" o.c.	+30.1 / -50.1
		Min. 0.060" zinc closure at wall terminations	#8 x 1-5/8" self-tapping, pancake head screws	16" o.c.	
		Integral Horizontal Flange	#8 x 3/4" self-tapping, pancake head screws	8" o.c.	

**This approval is subject to the following conditions:**

1. Each panel shall be labeled with the Dri-Design, Inc. name and address, the product name, production date and research report number, LARR 26079.
2. The Dri-Design metal wall cladding system shall be installed in accordance with the manufacturer's published installation instructions and this general approval.
3. Structural calculations demonstrating that applied loads are less than the allowable loads must be submitted to the Structural Plan Check Section for approval. The calculations shall be signed and sealed by a licensed civil or structural engineer, registered in the State of California.
4. The approval of the structural substrate to which the Dri-Design metal wall cladding 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.
  - a. A licensed civil or structural engineer shall analyze the fasteners for pullout for use atop the specified sheathing or hat-channels. The structural framing, sheathing and/or hat channels shall be reviewed and approved by the Structural Plan Check Section.
5. Use of the Dri-Design metal cladding system as bracing against lateral wind or earthquake forces is outside the scope of this approval.

Dri-Design, Inc.

RE: Aluminum Non-Structural Metal Wall Cladding System.

6. Panels are manufactured in Schofield, WI under a quality control program with inspections by Architectural Testing, Inc.

## DISCUSSION

The report is in compliance with the 2017 Los Angeles City Building Code.

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

- ASTM E283, Standard Test Method for Rate of Air Leakage through Exterior Windows, Curtain walls and Doors under Specified Pressure Differences across the Specimen.
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- ASTM E330, Standard Test Method for Structural Performance of Exterior Windows, Curtain walls and Door by Uniform Static Air Pressure Difference.
- ASTM E331, Standard Test Method for Water Penetration of Exterior Windows, Curtain wall and Doors by Uniform Static Air Pressure Difference.
- ASTM E547, Standard Test Method for Water Penetration of Exterior Windows, Curtain wall and Doors by Uniform Static Air Pressure Difference.

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 Department of Building and Safety Engineers and Inspectors

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