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EXECUTIVE OFFICER

Dagard, USA Corp.
1251 Ave of the Americas, 34th Floor
New York, NY 10020

RESEARCH REPORT: RR 25600
(CSI # 13030)

Attn: Conrad Walker
(609) 233-9541

Expires: May 1, 2020
Issued Date: July 1, 2018
Code: 2017 LABC

Local Representative: Clean Room West
Attn: Steve Alley
(714) 258-7700 x230

GENERAL APPROVAL – Renewal and Clerical Modification - Dagard SI-60 and SM-60 Sandwich Panels for modular walls and ceilings systems for clean rooms or cold rooms.

DETAILS

Dagard SI-60 panels consist of metal skins of 0.016" galvanized steel, conforming to ASTM A570, with 3.0 pound density urthane foam core of 2 ½ inch thickness sandwiched between two metal skins. The panels are produced in 47-inch widths. They are approved to be used as interior walls and suspended ceiling panels. Flames spread and smoke density ratings for foam core per ASTM E84 are 0 and 240, respectively.

Dagard SM-60 panels consist of metal skins .024" (22 gauge) of galvanized steel, conforming to ASTM A653, (European grade SS 230), with 6.0 pound density rock wool core of 1 ½ inch thickness sandwiched between two metal skins. The panels are produced in 47-inch widths. They are approved to be used as interior walls and suspended ceiling panels. Flame spread and smoke density for the finished panels are 0 and 5, respectively.

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RE: Dagard SI-60 and SM-60 Sandwich Panels for modular walls and ceilings systems for clean rooms or cold rooms

The general approval of the panels is subject to the following conditions:

1. The panels shall be installed in the interior of the building only. No electrical, mechanical, or plumbing shall be allowed to be cut into panels once fabricated. Separate electrical approval is required from plan check for any fabricated systems.
2. Use of the panels shall be limited to locations where combustible materials are permitted by the Code.
3. The panels shall be fabricated in the shop of a licensed fabricator approved by the Los Angeles City Department of Building and Safety. Each panel shall be identified by the manufacturer's name and product designation.
4. Materials for the panel shall be as specified above. Test data by a Los Angeles City approved testing agency shall be submitted upon request.
5. Complete plans and design calculations bearing the signature of a civil or structural engineer registered in California shall be submitted for each job.
6. Design of a building or structure utilizing the panels shall be in accordance with the Code and the design data specified below:

For SI-60 Panels

- A. Panel Height Limitation (feet) and Maximum Concentric Axial Loads (PLF) for 2.5" panel

Height (feet)	Maximum Axial Load (PLF)
10	300
8	360
6	430

- B. Maximum Allowable Loads (PSF) for 2.5" Ceiling Panels

Span (feet)	Maximum allowable Loads (PSF)
10	20
8	30
6	430

- C. Maximum Allowable Shear Load for 2.5" Wall Panels with Maximum Height: Width Ratio 3-1/2:1

Dagard, USA Corporation

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Panel Span (FT)	Allowable Shear (PLF)
10	65
8	80
6	95

For SM-60 Panels

- A. Panel Height Limitation (feet) and Maximum Concentric Axial Loads (PLF) for 2.5" panel

Height (feet)	Maximum Axial Load (PLF)
12	300
10	360
8	430

- B. Maximum Allowable Loads (PSF) for 2.5" Ceiling Panels

Span (feet)	Maximum allowable Loads (PSF)
12	20
10	30
8	40

- C. Maximum Allowable Shear Load for 2.5" Wall Panels with Maximum Height:Width Ratio 3-1/2:1

Panel Span (FT)	Allowable Shear (PLF)
12	65
10	80
8	95

DISCUSSION

The clerical modification is to update the code to the 2017 City of Los Angeles Building Code and to update the contact person.

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

The approval is based on tests in accordance with ASTM E-72, ASTM E-84 and ASTM D-1929.

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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, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

QUAN NGHIEM, Chief
Engineering Research Section
201 N. Figueroa Street, Room 880
Los Angeles, CA 90012
Phone 213-202-9812
Fax 213-202-9943

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