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LOS ANGELES, CA 90012

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OSAMA YOUNAN, P.E.
EXECUTIVE OFFICER

Modernfold, Inc.
512 5th St. NW
Dyersville, IA 52040

Attn: Tom Goldsmith
(563) 875-7136

RESEARCH REPORT: RR 22410
(CSI # 08350)

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

GENERAL APPROVAL – Renewal - Modernfold Folding Door Partitions and Operable Walls and Acousti-Clear Motorized and Glass Wall Systems

DETAILS

The Encore product is an operable partition for dividing large rooms to separate people and sound. The wall system consists of panels and track that create desired room layouts. Panels are stored by folding and stacking against each other. These panels are moved out of the stack and travel down track system to location and interface with adjacent panels.

Encore panels are constructed with steel framing, steel outside skin material, fiberglass insulation, gypsum board backers, vinyl seals and finish covering for appropriate acoustical performance. Panels are nominally 4” thick. Width and height is job specific for the opening size it will be filling, but typically approximately 4 feet wide. Common height is approximately 9’, but can be as high as 30 feet in one piece construction.

The Acousti-Clear Automatic, Acousti-Clear Motorized, and the glass wall models of Compactline, 100ARG, 362SR-DRS, and 362 TR-DRS are constructed with aluminum framing, steel seal mechanisms, glass skin material, and vinyl seals for appropriate acoustical performance. Acousti-Clear panels are normally 4” thick, while glass wall models are typically ½” thick. Width and height is job specific for the opening size it will be filling, but typically approximately 4’ wide. Common height is 9’, but can be as high as 12’.

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Modernfold, Inc.

RE: Modernfold Folding Door Partitions and Operable Walls

Modernfold folding door partitions and operable walls of the following series (see attached drawings) are approved for the rating indicated:

Item No.	Series Designation	Rating
1	Modernfold Series	Noncombustible
2	Modernfold Soundmaster	Noncombustible
3	Modernfold Acousti-Seal 900 Series	Noncombustible
4	Modernfold Encore Series	Noncombustible
5	Modernfold Acousti-Clear Series	Noncombustible
6	Modernfold Glass Wall Series	Noncombustible

** Separate general approval is required for Modernfold Spacesetter Model Office Market.

The Acousti-Clear Motorized system consists of manually movable partitions suspended from a track system that allows the sections to be manually moved and repositioned for use and storage. The partitions are available in various configurations:

- Intermediate Panel – Solid Tile
- Intermediate Panel - Glazed – with or without motorized blinds
- (AWA) Adjustable wall section
- Single Pass door Panel DT – single door on center
- Double Leaf Pass door DTZ – single door on right or left of panel. Two panels join side-by-side to create a double-door.
- TE Panel

The partitions employ motorized resilient sealing systems at the top and bottom of the wall sections for sound insulation. Motorized blinds are an option in glazed partitions. The motorized sealing system at the end of a partition run is operated through a manually operated momentary contact key switch. The power supply for the system is identified as Listed Class 2 supplies. The supplies are field supplied and not part of this certification.

The panels were investigated to the Standard for Safety for Test for Surface Burning Characteristics of Building Materials, UL 723 Tenth Edition Dated September 10, 2008. Flame Spread is less than 200 and Smoke Developed is less than 450.

The panel constructions as indicated within were investigated to CAN/ULC-S102M, "Test for Surface Burning Characteristics of Building Materials and Assemblies." The limitations are 150 Flame Spread for sprinklered buildings and 75 Flame Spread for non-sprinklered Bbuildings for Group A occupancies (Meeting Areas).

Modernfold, Inc.

RE: Modernfold Folding Door Partitions and Operable Walls

The approval is subject to the following conditions:

1. The folding door partitions shall not be used where a fire-rated door or fire-rated partition is required by the 2017 Los Angeles City Building Code.
2. Rooms created on each side of the folding door partitions shall comply to all requirements of the 2014 Los Angeles City Building Code for separate rooms.
3. The installation of the folding door partitions or operable walls shall not create a corridor.
4. Folding door partitions and operable walls over 6 feet in height shall be designed to meet the requirements of the 2017 Los Angeles City Building Code. For each job where the folding door partitions or operable walls are used, calculations bearing the signature of a licensed Civil or Structural Engineer or Architect registered in the State of California shall be submitted to Structural Engineering along with detailed drawings of the anchorage system of the partitions to the supporting structure above.
5. All materials used for the construction of the partitions shall be limited to the materials for which test reports have been submitted to the Engineering Research Section.
6. The folding door partitions shall be identified by the manufacturer's name and series designation.
7. Separate approval from the Electrical Engineering is required for any electrical installations within the partitions.
8. Finish materials for the partitions shall be specified on the approved set of plans for each job. Wall finish materials shall meet the requirements of Section 803.5 of the 2017 Los Angeles City Building Code. Folding door partitions or operable walls finished with combustible wall covering materials shall only be used in locations where combustible construction is permitted by the 2017 Los Angeles City Building Code. See Table I for a list of approved finish materials.
9. Textile wall coverings shall be protected by automatic sprinkler system as required by Section 803.1.4 of the 2017 Los Angeles City Building Code.

DISCUSSION

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

The approval is based on tests conducted in accordance with UBC Standard No. 8-1 (ASTM E-84).

Modernfold, Inc.

RE: Modernfold Folding Door Partitions and Operable Walls

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.

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.

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

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Attachments: 7 sheets of drawings

TABLE I

Finish Material	Flame Spread	Smoke Density	Class
Sweep Strip Vinyl	5	10	A
Cord Mesh 48 (Plastic-Coated Fabric)	13	224	A
Cord Mesh 36 (Vinyl-Coated Fabric)	15	138	A
Sound Master Liner Paper	5	10	A
Veneer Faced Particle Board	90	50	C
*Embossed Vinyl-Coated Fabric 21 oz	10	15	A
*Vinyl-Coated Polyester Fabric 30 oz	15	20	A
**Wall Covering Fabric Igneous	5	85	A
**Wall Covering Fabric Playa, Mojave, Denali	25	40	A
**Wall Covering Fabric Seabisquit	5	40	A
**Wall Covering Fabric Whirlaway, Kentucky Derby, Stargazer	15	140	A
+ Neeole Bond Polyester Tufted Loop	15	185	A
**Wall Covering Fabric Luma	20	50	A
**Wall Covering Fabric Spectra	20	50	A
**Wall Covering Fabric Prisma	25	40	A
Glass, ANSI Z97.1	0	0	A

* Manufactured by RJF International, Inc.

** Manufactured by Design Tex and Company.

+Manufactured by Shaw Industries