

ACE DOORS
Mark Pelkey
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A NEW BREAKTHROUGH IN THE ROLLING DOOR INDUSTRY

AN **EXTREME** DOOR FOR EXTREME CONDITIONS

Maximum:

- ♠ Durability ♠
- ♠ Resistance to abusive environments ♠
- ♠ Return on investment ♠

Minimum:

- ♠ Down time ♠
- ♠ Effort to make operational after impact ♠
- ♠ Maintenance due to high quality components ♠

- ♠ Engineered for years of dependable service with minimum maintenance or repairs
- ♠ Will meet the demands of all of your industrial and commercial applications
- ♠ Break-away guides are fully adjustable to suit the location and windload requirements.
- ♠ The sidelock bars provide a smooth running surface for the curtain while keeping it in the guides, even while under heavy windload.
- ♠ The Air Wave safety edge leads the industry in sensitivity and reliability.
- ♠ The hinged bottom bar is equipped with breakaway straps that will keep it rigid unless impact occurs.
- ♠ Wear strips on both sides of the curtain protect the rubber surface from friction that may cause wear.
- ♠ Upon impact the curtain and bottom bar will release from the guides preventing damage to the door. The door can be reset in minutes from the floor without any special tools or ladders.



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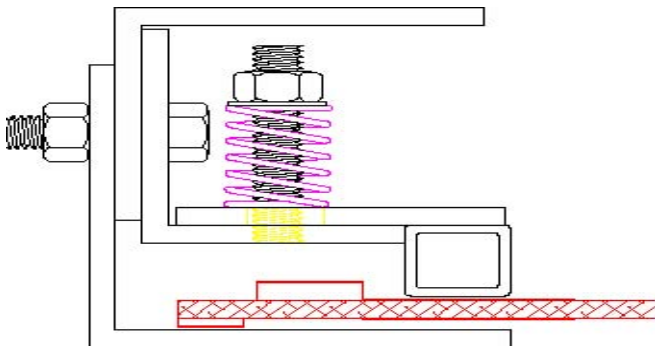
AN EXTREME DOOR FOR EXTREME CONDITIONS

Self Repairing: The patented curtain design with sidelock bars withstands impacts. After an impact our unique break-away design resets itself **from the floor** without the use of special tools or ladders. The ends of the bottom bar are simply inserted into the side guides and the door then is cycled to a position where the shear bolts can be replaced.

Virtually Maintenance Free: Simplistic design, all parts are made from durable materials that require little maintenance, an **extreme door for extreme conditions**.

Excellent Energy Saver: Excellent sealing capability due to our double sidelocks, providing our customers with a near airtight seal and minimum air infiltration. The curtain will remain resilient and flexible at temperatures ranging from -40F(C) to +180F (+85C) minimizing heat loss/gain in your facility.

Proven Performance & Long Life: Our rugged design eliminates costly downtime often experienced with conventional doors. The limited lifetime warranty on our ¼" thick rubber curtain gives you years of trouble free operation.



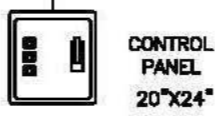
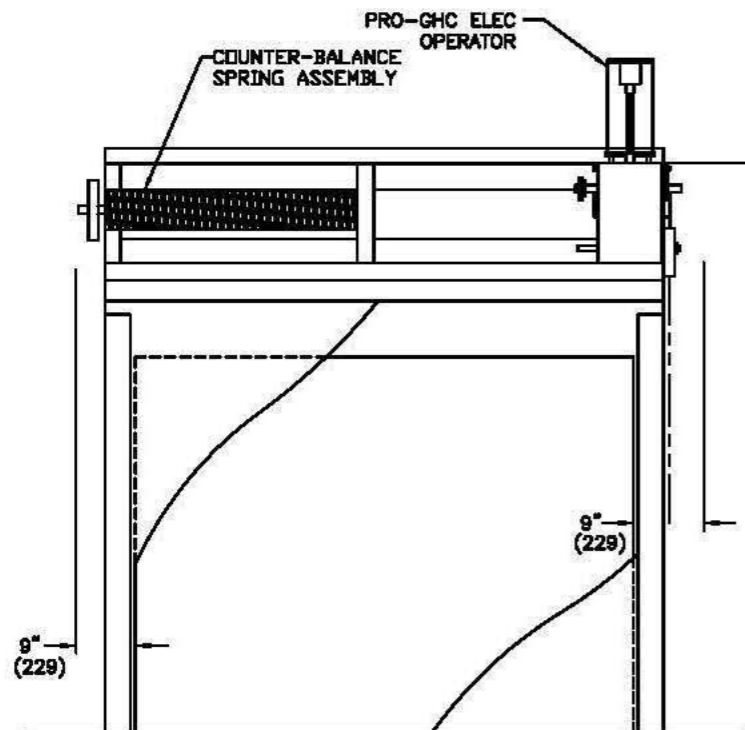
Standard Equipment: Break-away bottom bar, guides & curtain, wear strips on both sides of curtain, Air Wave safety edge, outboard mounted counter balance spring assembly with a minimum of 50,000 cycles and heavy duty self aligning bearings

Optional Equipment: Helical gear electric operator, hood, traveling windbar, timers, photo eyes, loop detectors, remote controls, soft start & soft stop

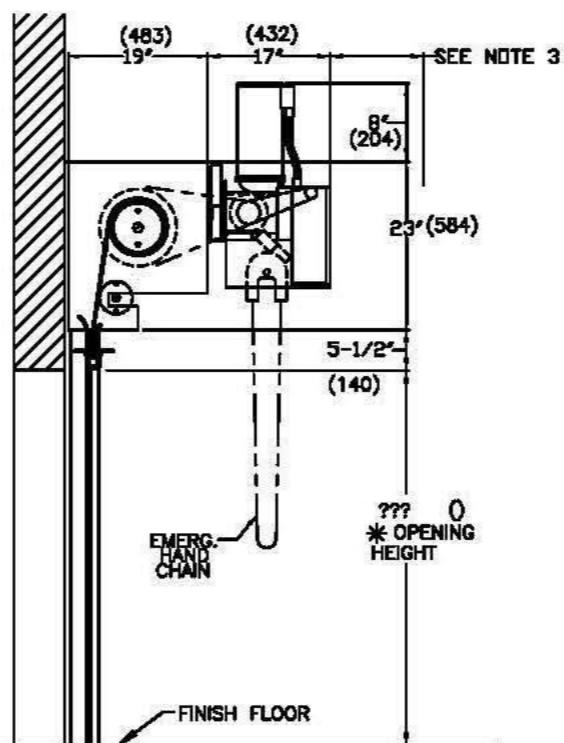
Standard Features: All doors withstand wind loads of 20 PSF (88 MPH) and/or pressure differentials on interior or exterior openings. **FMR Rolling Rubber Doors with electric operators:** One-year warranty on parts & workmanship, limited lifetime on curtain, includes a separate control panel with a cycle-counter, Air Wave safety edge & photocell.

Rolling Door Models and Series Numbers

	FCR-100	FMR-200	FMR-250	FMR-300	FMR-350
Usage	Manual Operator	Standard Cycle	High Cycle	Large Openings	Very Large Openings
Max Opening Size	20' h. or w., max 400 sq/ft	20' h. or w., max 400 sq/ft	20' h. or w., max 400 sq/ft	27' h. or 24' w., max 648 sq/ft	30' h. or 40' w., max 1200 sq/ft
Counterbalance Doors	50K Cycle Springs	50K Cycle Springs	100K Cycle Springs	50K Cycle Springs	50K Cycle Springs
Springless Doors	Not Available	Not Available	Available	Consult Factory	Consult Factory
Drive Systems	Chain Hoist	Gear Head	Helical Gear (High Efficiency)	Gear Head	Helical Gear (High Efficiency)



CONTROL PANEL
20"x24"



NOTES:

- 50,000 CYCLE COUNTER-BALANCE SPRINGS
- ELECTRICAL INFORMATION:
VOLTAGE ??? PHASE ???
OPERATOR NEMA ???
CONTROL PANEL NEMA ???
PUSH BUTTONS INCLUDED ON CONTROL PANEL
TIMER TO CLOSE; TIME DELAY ON REVERSE
REFLECTIVE PHOTOCELL
- PROVIDE ADEQUATE CLEARANCE FOR WIRING.
- THIS DRAWING COVERS GENERAL CONDITIONS, DIMS AND SPECIFICATIONS ONLY. DO NOT USE FOR INSTALLATION PURPOSES. INSTALLATION INSTRUCTIONS AND DIMENSIONS ARE INCLUDED WITH SHIPMENT.
- DOOR SPEED = 12 ips
- MAXIMUM DOOR HEIGHT <= 16' 0"
(OVERSIZE DOORS AVAILABLE UPON REQUEST)
- APPROX. WT. OF DOOR IS ??? LBS. () Kg.

ALL DIMENSIONS IN BRACKETS ARE IN MILLIMETERS.
DIMENSIONS AND CLEARANCES AS NOTED BY
ASTERISK (*) MUST BE FIELD CHECKED.

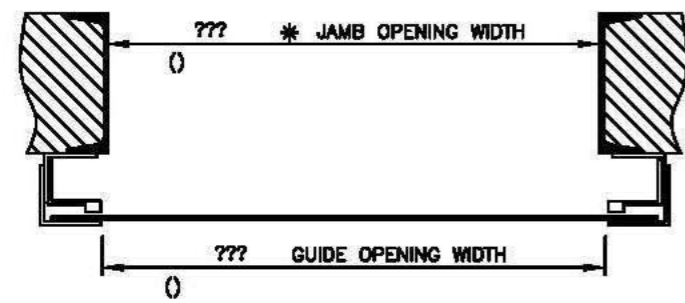
VERIFIED BY: _____ ON: _____

MAKE	HAND	ARCH. MARK	BREAKAWAY MARK
1	AS SHOWN		R1

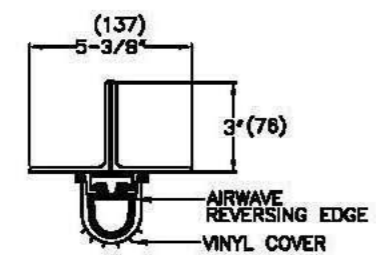
NO.	BY	DATE	REVISION
3			
2			
1	R.B.	/ /04	ORIGINAL DRAWING

**BREAKAWAY DOOR
MANUFACTURING INC.**

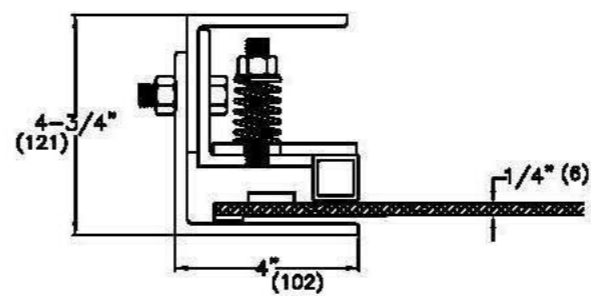
JOB: ?????
CONTRACTOR:
ARCHITECT:
DISTRIBUTOR: ?????



* VERIFY WALL
CONSTRUCTION
AND THICKNESS



BOTTOM BAR DETAIL
MAT'L: STEEL
FINISH: BLACK



GUIDE DETAIL
MAT'L: STEEL
FINISH: BLACK

CURTAIN DETAIL
MAT'L: S.B.R
FINISH: BLACK

HIGH CYCLE RUBBER DOOR FACE MOUNT MODEL FMR

Breakaway

DOOR MANUFACTURING

Unique energy-saver

When determining the efficiency of most door systems in relation to energy conservation, the critical statistic is usually the “R” factor of the material used in the body of the door itself. Overlooked in nearly all cases is the heat loss that any door system incurs around the perimeter of the opening.

This is due mainly to the continual problem of having to constantly adjust the door track and hardware to maintain a close contact between the body of the door and the edges of the opening.

While the body of a FMR rubber door system is comprised of a rubber curtain only ¼” thick (offering little in the way of an impressive “R” figure), the unique sealing qualities of the rubber within the guide system provides for a near-perfect seal around the opening at all times.

Thus the FMR rubber roll-up door systems can be just as effective in total energy conservation as even the best of conventionally insulated industrial doors. The example below provides our rubber roll-up vs. R14 insulated sectional door. The following assumptions and calculations are consistent the example below:

- a) All door sizes are assumed to be 14’ wide x 14’ high
- b) Heat lost is calculated both through the body of the door and around the perimeter of the opening
- c) Heat lost is calculated with the door in the close position only
- d) The body of the door is calculated based on the same square foot size (i.e.: 14 x 14 = 196sq/ft)
- e) The perimeter is calculated around the opening including the base (i.e.: 14+14+14= 42 feet)
- f) Infiltration of air around the perimeter of a door opening has been determined by independent testing at 20 CFM.
- g) The “R” figures listed in the below example are stated by the manufacturers of the respective door system.

EXAMPLE:

FMR VS R-14 insulated sectional door:

R value for FMR rubber roll-up = 0.6
R value for the insulated sectional door = 14

FMR BTU’S LOST/HR

Heat lost – door body (196 x 1/. 6 x 70) = 22867
Heat lost - perimeter (42 x 10 x 1.08 x 70) = 31752
Total BTU/HR = 54619

SECTIONAL BTU’S LOST/HR

Heat lost – door body (196 x 1/. 14 x 70) = 980
Heat lost - perimeter (42 x 20 x 1.08 x 70) = 63504
Total BTU/HR = 64484

Conclusion the R14 sectional door will loose approximately 9865 more BUT’S per hour, due to section and perimeter air infiltration. Unlike conventional sectional doors the greater the pressure on the FMR door the better the seal, thus offering the best energy savings available.

**Dealer of Breakaway Door Manufacturing Call Mark @ Ace doors 705-322-0363 Ext:111
1800-561-0656 or E~mail: mark@acedoors.ca**