



# JUS DOORS

**JUS THE DOORS  
NO GIMMICKS**

**Unlocking Simplicity  
US Design, US Code, US Parts  
US Craftsmanship**

**INNOVATION**

**in Emergency Services**

**Series 87 & 93 Four Fold Doors**

**A folding door designed with the  
emergency services industry in mind.**

# FOUR FOLD & MULTI FOLD



Designed with your station in mind.

Under the **FOUR FOLD DOOR** product family, JUS Doors manufactures two folding door lines; the **Four Fold Series 87 & 93** and a **Multi-Fold** sliding folding door. Both doors are highly robust, offering state of the art integrated safety with low maintenance requirements; making them a superior choice for your emergency service apparatus bay.

## What makes these doors so great for the Emergency Services industry?

- **Horizontally Deployed:** reduces the probability of impact with the bottom panels of a traditional overhead door. When an operator exits prematurely the risk of apparatus impacting an overhead door as it opens increases. A horizontally door allows helps to avoid obstructions & interference with exhaust evacuation systems. These risk come with high repair cost and these doors can help you to mitigate those risk.
- **No Track / No Springs:** both the Four Fold and the Multi-Fold design eliminate tracks and torsion springs; both are problematic items requiring increased maintenance as the doors age. By eliminating those tracks and springs, the cost of ownership in years 10 – 20 are substantially less than a traditional overhead door.
- **Operational Speed:** Opening in as quick as 5 seconds, these doors reduce exit speed by 75%. Rapid exit increases the serviceable area of a station, allowing quicker responses to the extremities of its coverage area!
- **Wide Openings:** for much wider openings, the Multi-Fold provides an option for wider bays, while retaining a quick opening speed. Cycling at just under 1.5 ft / sec, the Multi-Fold can open a 24' bay in just under 16 seconds; or close a bay in width up to a max of 120'.

4F 87 & 93



MF





# EMERGENCY SERVICES

When it just needs to...WORK.



**Every second counts, and when there's an emergency, it just needs to work! The Model 87 & 93 Four Fold Door have been simplified, proven, and designed to work for decades. Made in the USA, we're proud of our heritage, and you will be too!**

## How can you know that you can count on the Four Fold& Multi Fold?

With over 4 decades in door experience, the engineering behind the Four Fold & the Multi Fold door has proven a reliable and cost-effective solution in Fire and Ambulance stations alike. These doors open quicker, with the Four Fold reaching fully opened in only 5 seconds; regardless of size.

The horizontal opening action allows the engineer to never lose sight of the door as it opens, eliminating costly errors resulting from the door being out of sight. Improved exit speeds allow a station to improve its response times and service greater geographic area while maintaining minimum response times. Both the Four Fold & the Multi-Fold are highly configurable with options such as time delayed automatic closing or traffic lights & sirens. Each door, as a standard, comes with all required safety devices to comply with UL 325; ensuring the user and the general public are always safe during the operation of these doors.

With a network of authorized Dealer & Services channels around the US, we are prepared to ensure your doors are always in "READY" mode.



# PARTS & COMPONENTS

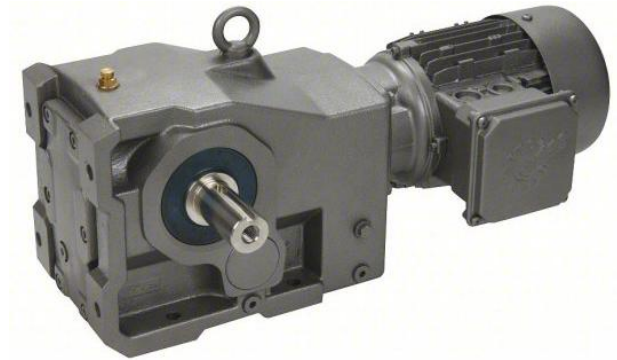


## How does it work?

**In the Emergency Services industry, when duty calls you must get out. JUS Doors employs only the most reliable parts & components for use with its doors; and requires prompt accessibility of all replacement & service components. All replacement parts are domestically procurable; ensuring when a service issue arises, it can always be addressed quickly & efficiently keeping your door online .**

### Some key features of components used in the Four Fold & the Multi Fold:

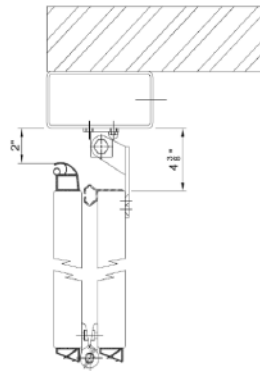
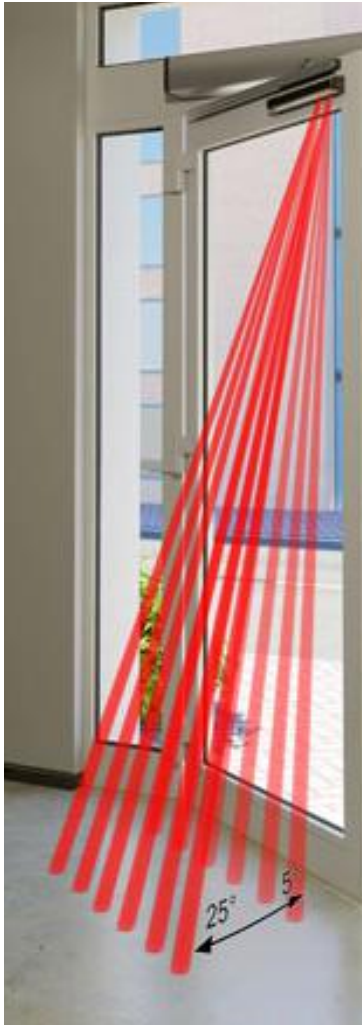
- **Jamb Mounted or Center Mounted Operator Configuration:** Specifically designed to ensure smooth and reliable operation while opening & closing the folding doors.
- **Fully Configurable PLC Control Panel:** A control panel housed in a NEMA 4 enclosure with advance technology allowing for efficient use of energy, while deploying SAFEcoder technology to ensure the door always remains safe.
- **Push Button Controls:** Standard open, stop, close push button interfaces; allowing the user to operate the door.
- **Remote Transmitter & Receiver:** A transmitter & receiver system employing a rolling code algorithm to keep the door secured from unintended access while away from the station.
- **Manual Release:** A toggled mechanical interface which allows the doors to be disengaged from its operator for manual operation in the event of power failure; ensuring the opening is accessible in all conditions.
- **BEA Microwave Sensor:** Technology combined with sophistication designed specifically for the automatic door industry; allowing for the configuration of timed delayed closure upon exit with intelligence to determine direction of travel ensuring apparatus does not reverse into closing door.





# SAFETY & SENSOR

Keepin' it safe



As folding doors have gained in popularity, so has the need to keep them safe. JUS Doors is an industry forerunner in safety development; having developed systems such as TravelPath anti-crush sensory, JUS is well versed to anticipate and guard against the perils associated with the operation of folding doors.

## Some key safety features of the 4F87, 93 & MF folding door options:

- **Lead Edge Safety Protection:** The lead safety edge prevents entrapment & closure on occupants.
- **Low Profile Adjustable Hinge:** JUS custom designed jamb hinge is designed to allow field adjustments, allowing for the variances of various project sites. Additionally, the hinge is designed with a low-profile design eliminating massive gaps at the jamb and minimizing the potential pinch point.
- **BEA LZR Widescan & Flatscan Protection:** With the BEA Widescan & Flatscan, the sensor adjust to the movement of the door as it moves, providing the occupant dynamic protection as they fold open or close.
- **EMX Photocell Technology:** Like a traditional photoeye, the EMX provides an infrared photo beam with faults when broken protecting the door from operation while an obstacle is present.
- **Highly Configurable PLC Panel:** With a fully configurable PLC Control Panel, the door may be configured to receive additional safety inputs as prescribed by the owner (i.e. warning horn & strobe, light curtains, pressure sensors, presence sensors, etc.).

# AESTHETICS & DESIGN



One size, does not fit all.

Over the years, JUS Doors has learnt different clients have different needs & desires. Thus, we approach each of our clients with a degree of individuality. Our production facilities are set up such that we can offer standard production models with improved lead times and more attractive price points; or for the client who prefers something a bit more unique, custom fabrication is available as well.

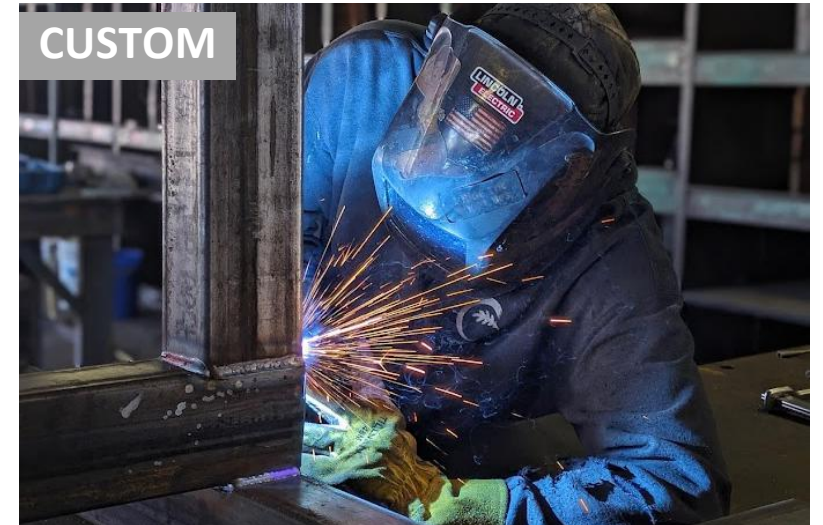
## Some Design Options Available:

- **Glazing:** JUS offers a standard glazing configuration of select window sizing & layout; positioned into panel with closed cell injection foam insulation providing a superior level of energy efficiency. Custom glazing, i.e. fully glazed, models are also available.
- **Finish Options:** JUS panels can be configured to receive a polyurethane powder coat system available in the range of RAL colors, a select range of pre-finished plastisol factory applied panels, or pre primed for field application of wet paint & epoxies.
- **Full Size Wicket Door:** Subject to width restrictions, panels can be configured to include an integrated wicket door. On wider panels, the integrated wicket door can be configured as to serve as a means of egress.
- **Automatic Time Delayed Closure:** Doors can be configured to automatically close after preset length of time.
- **Traffic Light Integration:** Door can be interfaced to set traffic lights to "red" on user command for safe emergency exit.
- **Safety Lights & Sirens:** Door can be configured to include safety lights and / or siren to warn users that door is in operation.
- **Safety Zone:** All doors manufactured by JUS which are automated are configured to include an invisible protection zone around the door to prevent lose of life, limb, or property damage.

STANDARD



CUSTOM





# CONFIGURATION OPTIONS

JUS Doors' is here to support you!

Product	Four Fold (Manual)	Four Fold (Electric)	Four Fold (Electric)	Multi Fold (Manual)	Multi Fold (Electric)
Short Name	F87M	F87	F93	MFM	MFE
<b>Feature</b>					
Hanging Arrangement	Side-Hung Bi-Folding			Top-Hung Bi-Folding	
Panel Configuration	1, 2 or 3 leaves to each side, i.e. 2+1, 3+0, 3+2.	2+0, 2+2, 0+2	2+2	multiple leaf configurations	up to 25 leaves per side, in bi-directional or unidirectional format
<b>Opening Sizes</b>					
Max Width	18' 8"	15' 7"	16' 4"	Unlimited	65' 7"
Max Height	19' 8"	19' 8"	24' 7"	19' 8"	19' 8"
Max Opening Area	258'	129' (2+0)	349'	Unlimited	538' (1-way)
<b>Clearance</b>					
Sideroom	7 7/8"	8 7/8"	11 3/4"	Varies Refer MF Series drawings.	Varies Refer MF Series drawings.
Headroom	5 7/8"	5 7/8"	17 7/8"	7 1/8"	9 1/8"
Max No. Tracks	1	1	1	1	1
Mounted Inside or Outside (In, Out)	In / Out	In	In / Out	In / Out	In / Out
<b>Operation</b>					
Electric	N/A	√	√	N/A	√
Manual	√	M/O	M/O	√	M/O
Opening Speed	N/A	6 Seconds (max 2.62f/s)	10 Seconds (max 1.64f/s)	N/A	max 1.31f/s
<b>Panel Construction</b>					
Solid Panel Polyurethane (Thickness Inch)	√ (2 3/64")	√ (2 3/64")	√ (2 7/16")	√ (2 3/64", 2 7/16")	√ (2 3/64", 2 7/16")
Solid Panel Mineral Wool (RW) (max 4500 H, 52 thick)	√	√	√	√	√



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Professionally Installed & Serviced by: