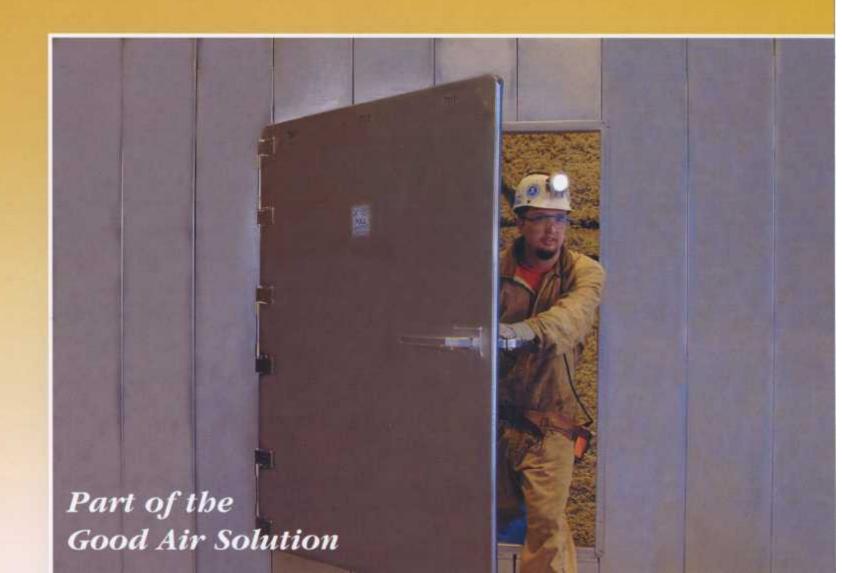


KENNEDY STEEL MAN DOORS

Jack Kennedy Metal Products & Buildings, Inc.



INTRODUCTION



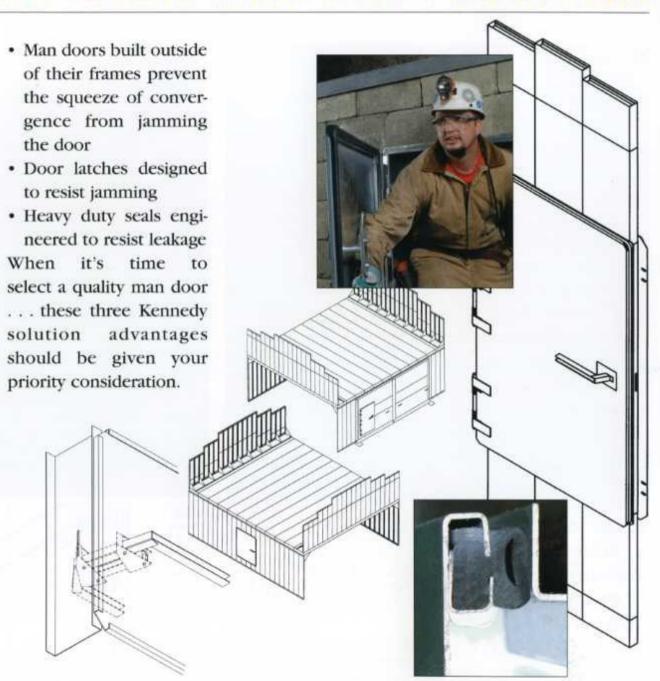
Kennedy steel man doors are designed by people with decades of mine door experience to operate safely and economically in mining environments. Our complete system of doors and frames is engineered for both Kennedy steel stoppings as well as masonry or wood block stoppings and is built for enduring strength with patented features that operate, seal and protect under severe underground mine heaving and distortion conditions.

Kennedy steel man doors are engineered to operate, seal and protect under severe beaving and distortion conditions.

THE KENNEDY STEEL MAN DOOR SOLUTION

The Kennedy steel man door solution consists of a complete selection of doors, frames, latches and seals that are integrated and engineered to support safe passage under severe mining conditions. Built utilizing galvanized steel for strength and corrosion resistance, the Kennedy man door is a collection of innovative yet practical design concepts that have been developed and tested over decades and found to be the most reliable mine doors in existence.

Three inherent Kennedy advantages make significant impact on mine door performance and safety.

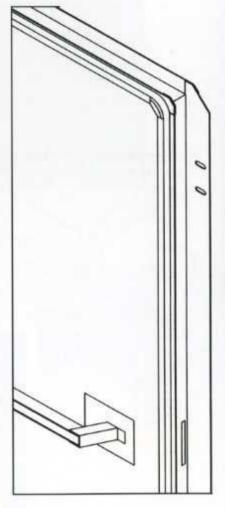


KENNEDY STEEL MAN DOORS

BUILT FOR KENNEDY STEEL STOPPINGS

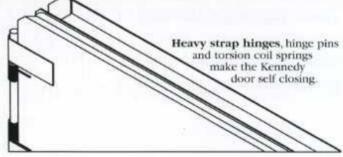
Our steel stopping man door takes the place of panels in the stopping. Doors come in kit form with all the necessary hardware for installation. Kennedy doors seal on the outside of their frame. The pressure that would normally be found on the frame of a man door in a conventional stopping is absorbed by the telescopic action of the upper and lower short panels in the Kennedy steel stopping. Consequently, air leakage at the door is held to a minimum over the stopping's life. The door is an independent unit, hung on its own frame.

Therefore, it does not prevent the stopping from yielding as necessary to accommodate roof-tofloor pressure.





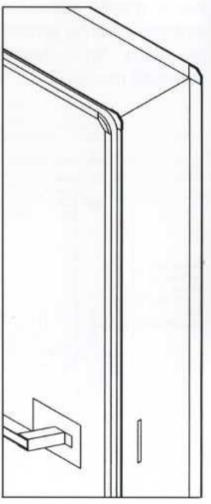
Small oblong holes in the extended flange on the door's narrow frame allow clamps to secure the door frame into a Kennedy stopping.

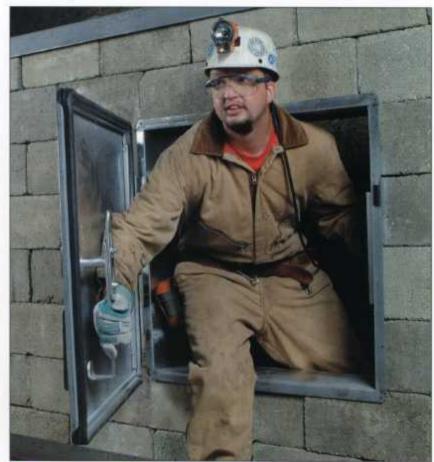


BUILT FOR MASONRY BLOCK STOPPINGS

Our steel man door that is designed for masonry block stoppings has an expanded frame large enough to accommodate concrete block between the flanges. The Kennedy block door complements our steel stopping door system with basically the same array of features that are configured in a wider profile frame. The same strap hinges, hinge pins and torsion coil springs utilized in the steel stopping door are used to make the masonry door self closing.

Kennedy masonry frames are large enough to accommodate blocks between the flanges.





Kennedy doors built outside of their frames prevent the squeeze of convergence from jamming the door.

keep them from getting jammed in case of frame distortion.

PARALLELOGRAM AUTOMATIC LATCH

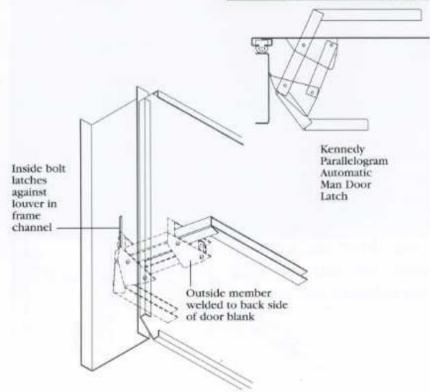
bolt. The large operating considerable convergence raises away from the

Kennedy latches are avail- damage. This is possible louver when the door is able in both manual and because the door is unlatched. automatic styles for use in mounted outside its frame Kennedy steel man doors allowing for the use of In addition, the paralleloand feature engineering Kennedy parallelogram gram specifications designed to automatic jam resistant has a retrofit adjustable latches.

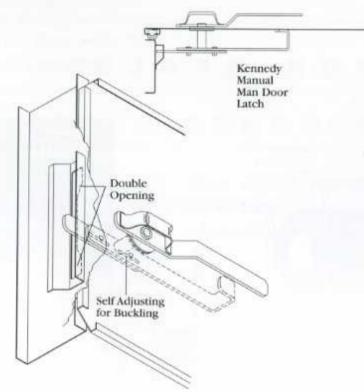
Here's how this patented structural damage. parallelogram automatic latch works. As you pull the handle of the door An important feature of toward you, the bolt the design of the parallelo- unhooks from the louver gram latch is that it because the "stationary provides a very large member" is welded to the operating range. When inside of the door panel. convergence occurs, it The other piece below usually causes the frame the top member has its to buckle inward, so the pointed end engaged in louver moves toward the the louver. This makes a "bolt" that moves to latch range lets the Kennedy the door. Because of the door continue to function four pivot points of the even though there is parallelogram, the bolt

automatic latch strike that can be applied to doors with heavy









MANUAL LATCH

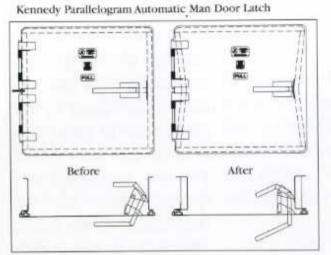
The basic operational concept of the Kennedy manual latch is that the latch rotates about a pivot point that is through a hole in the door panel. The bolt is engaged in a special piece that has been added to the frame The bolt is not rigidly attached to the "J" shaped piece but is held with two bolts. The bolts are in slots so if the frame distorts, moving towards the latch, the bolt can slide on the "J" shaped piece and not become jammed.

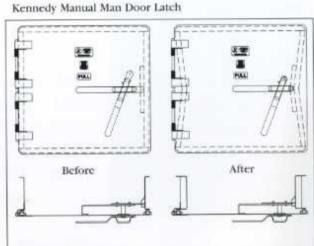
The slots that the bolt "tongue" can slide back in make the bolt shorter. The strike has an opening that "cams" the door tight as the latch is centered.

There are two openings, one above and one below the center section of the strike so that the latch can operate if the frame is distorted to such an extent that if the bolt can't reach to engage one opening, it will be able to engage the other, providing a secure seal.

The Kennedy jam proof latch defeats frame distortion.

One of the inherent advantages of Kennedy doors is its patented latching system. These latches are built to continue to function in spite of the "squeeze" of convergence induced size reduction pressure on the door frame, essentially making the latch jam proof.





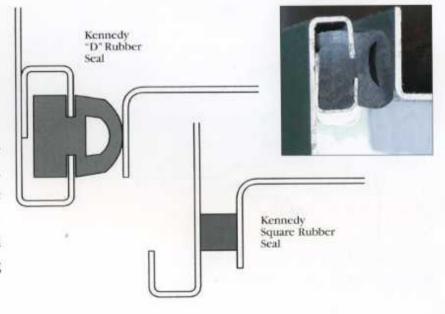
"D" RUBBER SEALS

seal has become the mining industry top standard for mine door closure. The "D" seal is captivated in the door panel and seals tight against the channel frame. This door seal gasket solves the problems of tear-off and provides superior resilience. The seal captivation is accom-

plished with specially The Kennedy "D" rubber molded grooves in the rubber and is filled by a separate "rubber" retainer.

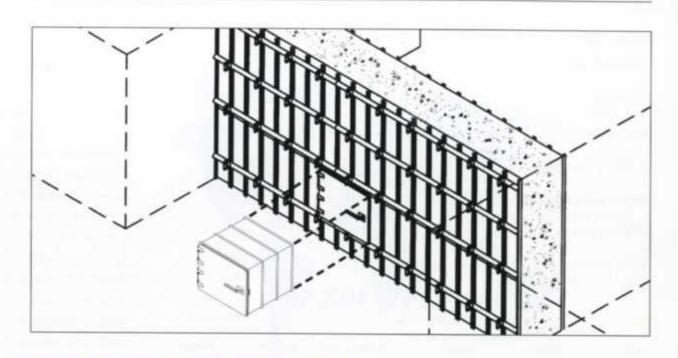
SOUARE RUBBER SEAL

The Kennedy square rubber seal features a reversed panel design with the return flange turned away. The square seal is glued to the frame reducing damage risk.



KENNEDY NZL EXTENDED FRAME D

Kennedy NZL (Near Zero Leak) steel man doors in extended frames are designed for use with NZL stoppings. NZL doors and stoppings are constructed to be used on "main lines"in places where they would be in use for an extended period of time. Their greatest advantage is that they offer low leakage over time.



specifically to "blow open" will not relieve pressure. to relieve concussion from blasting, long wall initial roof collapse, etc. These doors are able to open in both directions and are held closed by the friction of their perimeter seals.

The Kennedy concussion When desired, this door relief doors are built can be locked closed so it Kennedy Kennedy Concussion Door Concussion Door in Kennedy in Block Wall Steel Stopping

ORDER INFORMATION

Kennedy Metal Products Steel Man Doors Customer____

Date of Request _____

Delivery Date Requested _____

When ordering, select from door features including:

- ✓ Frame Size
 ✓ Latch Type
 ✓ Rubber Seal Type
- ✓ Reversibility
 ✓ Frame Opening

Door Number and Feature Code Example:

MPSC-915S-36X30

Self Closing Kennedy doors have a self-closing safety feature Frame
Size
Denotes
frame size for
concrete
block thickness in 6 or 8
inches and 9
makes
reference to
doors for
Kennedy

stoppings

Latch
Type
1 for
automatic
closing, 2
for "manual"
8 latch and 0
9 for no latch

Rubber Seal Type 5 for the heavy "D" rubber that is integrated in the door and 0 for the 1/2" square rubber that is

glued in

place

S-Side Hung R-Reversible The door leaf can be reversed and remounted for direction change E-Economy model

Opening in masonry models. In the 900 series additional numbers refer to the length of stopping pan packaged

with door

Frame

Common Man Door Sizes Quantity MPSC-615-31.5X30.5 MPSC-610E-31.5X30.5 MPSC-815-31.5X30.5 MPSC-815-35.5X60 MPSC-815R-31.5X30.5 MPSC-825-31.5X30.5 MPSC-815-48X60* MPSC-810-31.5X30.5 MPSC-820R-31.5X30.5 MPSC915S-36X30-24/24 MPSC925S-36X30-18/24 MPSC915-36X60-12/36 MPSC915-48X60* MPSC925-48X60* MPSC905-12X12

Kennedy doors with special sizes or features are available upon request.

OVERCASTS/Kennedy steel man doors are available for use with overcasts, both side and end wall applications.

"Denotes 3 Kennedy doors that are 48" wide and meet the MSHA criteria for an Escapeway Door. Kennedy offers vinyl reflecterized signs that identify mine door locations.

Date Order Placed_______
Delivery Date Quoted ______



Jack Kennedy Metal Products & Buildings, Inc.

P.O. Box 138

Taylorville, IL 62568

READ THIS NOTICE

The seller makes no warranty of any kind whatsoever, expressed or implied; and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed by seller and excluded from this agreement. Seller hereby disclaims any liability for any other or consequential damages which might occur from failure of the product to perform as herein stated.

KENNEDY WORLDWIDE

Kennedy Metal Products has been working to make mining safer and more productive for decades. We are recognized experts in mining ventilation with plants and warehouses on four continents.



READ THIS WARNING

NEVER defeat any feature of this door. It may be related to safety in some manner you do not understand.

WARNING: While this door has been designed to operate in mining conditions, it is possible for it to become jammed or inoperative. Check it frequently to be sure the door, its latch and hinges particularly, are operational and satisfactorily providing their intended function. Personnel could be trapped if this door doesn't work properly.

WARNING: Installation of this door where there is significant air pressure differential across the door could cause the door to be difficult to open, and to close with great force causing injury or even death to you and/or others.

WARNING: If there is significant air pressure differential across the door and high flow rates through the open door, being in front of the door or passing through the door way could be hazardous. The flow of air could cause you to lose your balance or be forced through the doorway unexpectedly causing injury or even death to you and/or others. Be careful.

WARNING: Opening this door for extended periods, or not being sure it is completely closed and sealed, or blocking it open – even partially – may make significant air flow changes in this and other areas in the mine. These changes could result in dust or gas accumulation that in turn could cause an ignition or explosion. Do not allow this door to make ventilation changes you do not understand. A mine disaster could occur causing injury or death to you and/or others.

WARNING: Read completely and thoroughly all installation manuals, instructions and warnings before attempting to install this product and follow such manuals, instruction and warnings. Failure to do so could result in injury and/or death to you and others at the time of installation or in the future.



Jack Kennedy Metal Products & Buildings, Inc.

FOR THE BEST VENTILATION USE THE COMPLETE KENNEDY SYSTEM...STOPPINGS, DOORS & OVERCASTS

- · Steel Stoppings
- NZL (near zero leak) Stoppings
- Preassembled Stoppings
- Overcasts
- Undercasts

- Over 200 Models of Man Doors
- Concussion Relief Doors
- · Manual Regulators
- Power Regulators
- Automatic Regulating Systems
- · Rescuer Boxes
- · Roof Brackets
- Conveyor Belt Slip and Sequence Switches
- · Belt Crossings



PATENT INFORMATION

These products are covered by one or more United States or Foreign Patents, granted or pending. 4082331, 4118894, 4523406; 1256319, 4573294; 4478535, 5168667, 645899; 2258006, 2066075, 92/2783, 6164871; 738872; 9926549.8; 2288597; 99/6988, 6052986; 724730, 9906465.1; 99/2403, 5167474, 09/044455; 1754399; 9906200.2; 992074; 6220785, 741355, 99/7771; RE34220; RE32871; 578107; 2177437; 1210943; 85/05115; RE32675; 555283; 566541; 2119852; 1198902; 83/1658; 4820081; 601647; 2214542; 1302099; 88/8623; 4695035; 588383, 2182081; 1246348; 86/7509; 4484857; 6579084; 09/903429; 60/355245

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