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TECHNICAL BROCHURE



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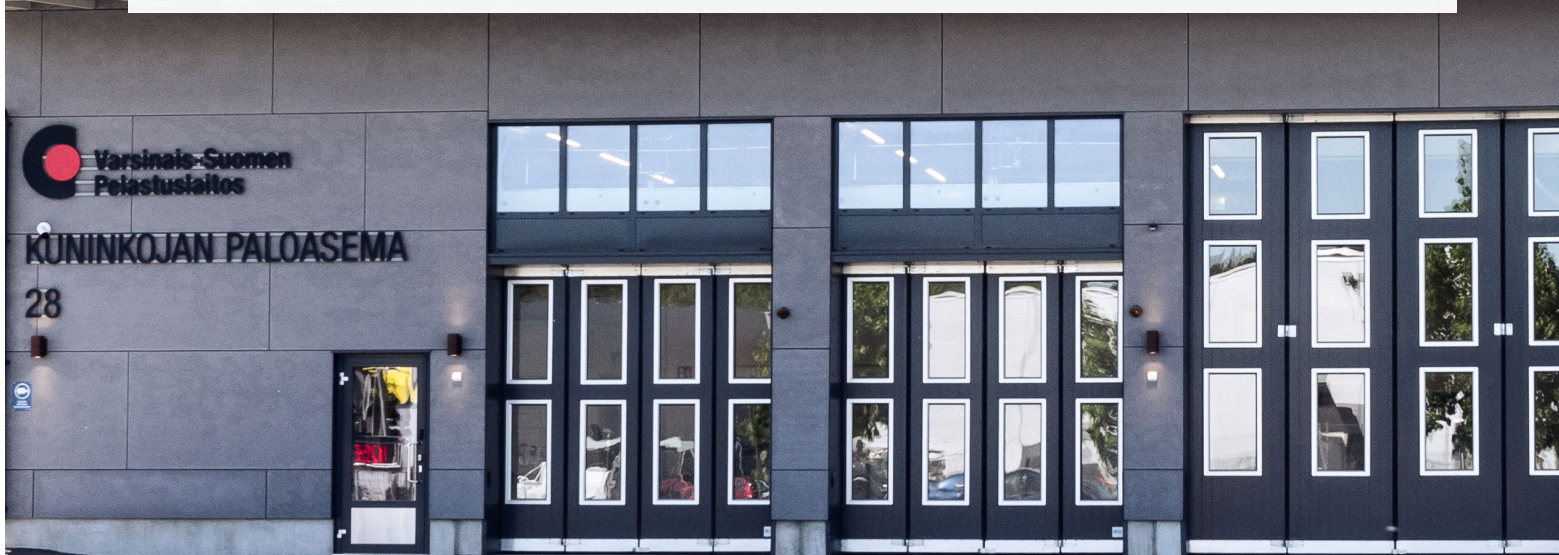
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FOLDING DOORS

Findoor folding doors are designed to withstand heavy usage and varying weather conditions without compromising reliability. The folding doors are available with electric operators as well as with windows or fully glazed. Findoor folding doors are an excellent solution for, for example, barns, fire stations, halls, and car washes.



Explore Findoor folding doors here.



FRAME DOORS

Are you looking for a tight, easy-to-use, and durable entrance or double door that opens smoothly even in winter? Findoor frame doors are ideal for challenging conditions in agriculture and industry.

We also provide frame doors with fire ratings.



Explore Findoor frame doors here.





MADE IN CANADA



FINDOOR WAS BORN OUT OF A GENUINE NEED

The first Findoor model emerged in 1989, the prototype being designed and assembled by Jaara brothers Seppo and Tauno in Ii, Finland.

A groundbreaking invention, the Findoor was created in response to a unique need for an item of similar make. At the time there were not any products of comparable style on the market, and as customers visited The Jaara Brothers shop for equipment repairs, the same question seemed to arise time and time again:

“Where did you guys get your door?”

Seppo and Tauno quickly discovered they had created a product that solved many issues other common products were well known for in the market. Since then, over 40,000 Findoor's have been manufactured and installed all over Scandinavia and North America.



FOLDING DOORS TO MEET ANY APPLICATION

Findoor's folding doors are industrial grade doors for use, for example, by workers in the trades. They are durable and so light in construction that even a big door can be operated manually without much exertion.

UNIQUE DOOR WITH NO MAINTENANCE WORRIES

The folding door holds up under heavy usage day after day without needing continuous maintenance. It is an excellent choice as a door on, for example, barns, fire stations, airport buildings, fabrication plants and carwashes. The core of the door is a thermally insulating material that does not absorb water, and that core is clad in sheet steel with a treated surface. Whenever the door is opened or closed, steel hinges lift the door off the floor, keeping the weather-stripping on the door bottom in good condition and also making light work out of using the door. The weather-stripping, being made of EPDM rubber holds up well in extreme conditions. If needed, you can also get an entry door in the folding door itself.



Structure:

- The structure is built using a self-made, energy-efficient, and lightweight sandwich structure. Thickness of the structure is 2 1/2"
- Cladding: heat galvanized sheet steel, minimum thickness of .02" (0.5 mm), painted by heat cured powder coating
- The dry film thickness of the steel sheet is 0.75-1.85 Mil
- The U-value of the structure is 0.09 Btu/h ·ft² ·F



Basic features:

All Findoor folding doors come standard with Premium equipment. The folding doors are manufactured with either manual or electric operation.

- Inward or outward opening, with the possibility of opening up to 180 degrees.
- Sealing: Seals made of EPDM rubber capable of withstanding extreme conditions. Between the door leaves, there is an 8-groove male-female seal, and at the bottom, a double drag.
- The door comes standard with lifting hinges that gradually lift the door by 25/32" when opened.
- Windows: 2K-selective thermal glass. Windows below 2' 4" in height are made of toughened glass.
- All aluminum parts have thermal breaks, including the pass doors and windows!
- All hinges on the door are made of electro-galvanized steel.
- All hinges on the door are bearing-mounted, reducing friction when closing and opening the door.
- The high-quality locking mechanism engages with the counterpart on the upper side. The locking mechanism does not lock to the floor, allowing for a seamless threshold except for a small floor sweep in the middle.



TECHNICAL FEATURES

Maximum size	Width 50 ft Height 27 ft (Higher ones will be special projects)	
Wind class	4	EN 12444, EN 12424
Air permeability class	±4 depending on the door size.	EN 12427, EN 12426
Water resistance class	3	EN 12489, EN 12425
U-value	0.012 (Btu/h ·ft ² ·F) 5x5 solid door.	EN 12428
Sealing	EPDM rubber. Male-female interlocking seals. Double drag at the bottom.	
Hinges	All hinges are made of electro-galvanized steel.	
Windows and pass door	3K selective glass. Windows below 2' 4" in height are toughened. Man doors come standard with a door closer, lock body, key cylinder, and handle set.	
Aluminums	All aluminum parts have thermal breaks, including the man doors and windows!	
Safety	Our doors are safety-tested according to standard EN 13241. The doors are designed to be slash-resistant.	



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ENERGY-EFFICIENT SOLUTION IDEAL FOR APPLICATIONS SUCH AS BARNES, FIRE STATIONS, HALLS, AND CAR WASHES

Findoor folding doors keep interiors warm throughout the year and contribute to heating cost savings. The thermal transmittance coefficient of Findoor folding doors has been tested according to standard EN 12418. The sandwich structure and thermally broken aluminum of Findoor folding doors make them highly energy-efficient.

Examples of U-values for Findoor folding doors:

- 0.13 Btu/h · ft² · F for a solid 4-panel folding door with dimensions 13' x 13'
- 0.17 Btu/h · ft² · F for a 4-panel folding door with dimensions 13' x 13' including windows (size 20" x 39")
- 0.18 Btu/h · ft² · F for a 4-panel folding door with dimensions 13' x 13' including windows (size 20" x 39") and an mandoor.





FOLDING DOOR FEATURES



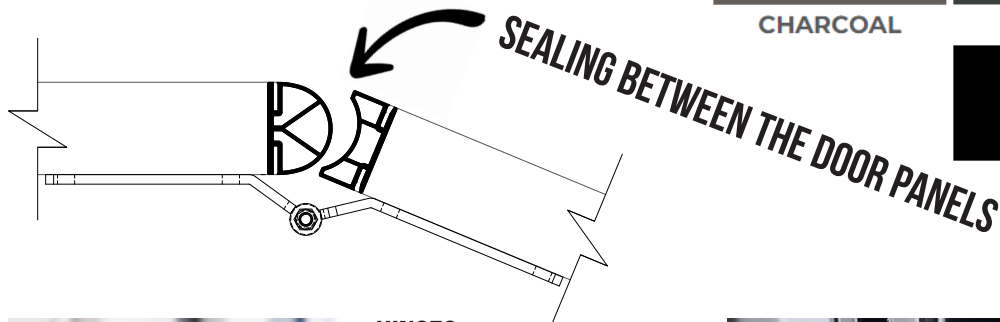
COLOR OPTIONS

Findoor folding doors use weather-resistant and high-quality sheet metal, which is also used in building roofs. On the right side you can see our standard colors. Inquire about other color options from our sales representatives!



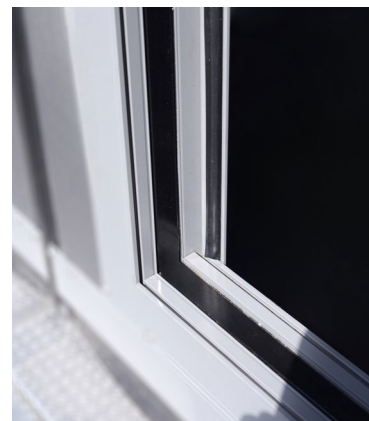
SEALING

The sealing of the folding door is made from weather- and wear-resistant EPDM rubber. Unique male-female seals are installed between the door leaves. Surrounding the door are robust 1" seals that snugly fit against the door frame. At the bottom of the door, a 1 37/64" high double seal presses tightly against the floor when the door closes. The structure of the seals is designed to prevent freezing.



HINGES

- All hinges on the door are made of galvanized steel.
- Standard lifting hinges gradually lift by 25/32".
- Dust-resistant bearing.
- The lifting hinge lightens the door operation, allowing for smooth usage even with large doors.
- Excellent adjustment options.



THERMAL BREAKS

- All aluminum used in Findoor doors is thermally broken.
- Thermally broken aluminum improves the U-value of doors and keeps condensation better outside the building.



TRACKS

- Findoor folding doors have a track only above the opening.
- We use both guide and carrying tracks in our folding doors. The type of track depends on the size of the door.
- The tracks are designed to prevent freezing.



FLOOR GUIDE

- Only a small floor guide is installed on the threshold of Findoor folding doors, preventing the door from moving even in strong gusts of wind.
- The floor guide is designed to withstand the weight of larger furniture, so you can confidently drive over it.

FOLDING DOOR FEATURES

MAN DOOR

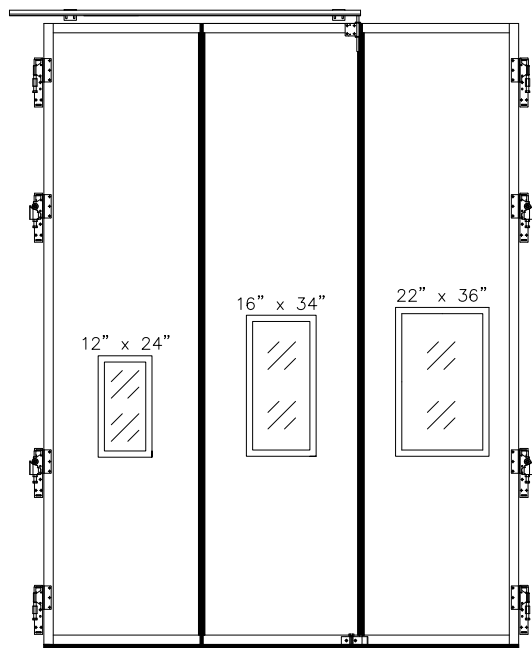
It is possible to have a man door integrated into our folding doors. The aluminum used in the man doors is thermally broken. The standard equipment for man doors includes a door closer, lock body, key cylinder, and handle set. Man doors in electrically operated folding doors are equipped with a magnet contact.

WINDOWS

Standard sizes are highly insulating and light-transmitting 3K thermal glass units that remain clear for decades. Custom sizes with 2K glass.

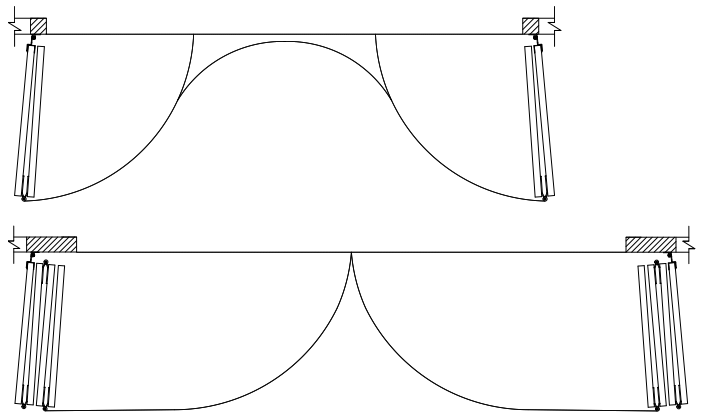
STANDARD WINDOW SIZES

12" x 24", 16" x 34", 22" x 36"



DOOR TYPES

1+0, 1+1, 2+0, 2+1, 3+0, 3+1, 2+2, 4+0, 4+1, 3+3, 4+2, 3+4, 4+4.



ELECTRICALLY OPERATED FOLDING DOORS

Folding doors can also be equipped with electric operators. Electrically operated doors are operated with remote controls or a fixed opening button. Other control options are also available. Necessary safety devices are installed for electrically operated doors. Manual doors can also be automated afterwards!



FD-OPERATOR	
SUPPLY VOLTAGE	120 V
OPENING SPEED	~15 seconds
TIMES OPENING/DAY	Max. 100 times a day
MAX. PANEL SIZE	Max. 6'
CONTROL	Remote control & fixed opening button
SAFETY DEVICES	Photocells and load guard



The table below generally determines the number of door panels based on the width of the door opening. We can also manufacture solutions that deviate from the table.

	Width of the door opening in millimeters	Amount of door panels
	0 - 7' 11"	2
	10' - 11' 11"	3
	11' 11" - 16'	4
	16' - 19' 11"	5
	19' 11" - 23' 10"	6
	23' 10" - 27' 2"	7
	27' 2" - 50'	8
	Inswing	Outswing
Threshold side view		
Outswinging door threshold top view		
Inswinging door threshold top view		

TECHNICAL DETAILS

The suggested number of door panels for the tracks is indicative.
If your door has a lot of glass or is a fire door, please check the required track with our salesperson!

Options for the mounting surface	<p>WOOD 4 23/32" x 4 23/32"</p>	<p>L-STEEL 4 23/32" x 2" Thickness min. 5/32"</p>		<p>NOTE! 1 or 2 panels per side - 4 23/32" 3 panels per side 8" 4 panels per side 16" - first 10" does not need to be mounting surface. Ask salesperson for details!</p> <p>This details shows 1 or 2 panel option</p>
	<p>STEEL PIPE 4 23/32" x 2" Thickness min. 5/32"</p>	<p>U-STEEL 4 23/32" x 2" Thickness min. 5/32"</p>		
	<p>Guide track 2,3 and 4 panel doors</p>	<p>Medium duty track 4,5 and 6 panel doors</p>	<p>Heavy duty track 7 and 8 panel doors</p>	
Tracks				
Space requirements	<p>Width of the door panel</p> <p>Overlap 1-2 panels 1 3/8" 3 panels 3 11/32" 4 panels 11 7/32"</p> <p>60mm panel - 3"</p> <p>DEPTH SPACE REQUIREMENT: 2-panel folding door: (Opening width / 2) + 4" 3-panel folding door: (Opening width / 3) + 4" 4-panel folding door: (Opening width / 4) + 4" 5-panel folding door: ((Opening width + 2") / 5) + 6" 6-panel folding door: ((Opening width + 4") / 6) + 6" 7-panel folding door: ((Opening width + 12") / 7) + 6" 8-panel folding door: ((Opening width + 1' 7") / 8) + 4"</p> <p>7 3/32" 2-panels 7 3/32" 3-panels 1' 2" 4-panels 1' 8"</p> <p>Indoor folding doors always give full clearance on the opening</p> <p>Having 1-2 panels on each side requires the same side space due to the same overlap</p> <p>Attention! FD-Operators requires 8" mm more free side space from the height of the operators when the door is on open position. In special cases, the operators can be placed in the middle panels</p>			



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DOOR REVOLUTION

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Findoor folding door BIM objects can now be
found in the ProdLib library



Did you know that with your quote, you always
receive a 3D-model of your door, which allows
you to examine your door more closely!

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