

TECHNICAL BROCHURE

WWW.FINDOORINDUSTRIAL.COM

P. +49 3030 809 542

HARDENBEGSTRASSE 12, 10623 BERLIN

INFO@FINDOORINTERNATIONAL.COM

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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. We also provide folding fire doors tested according to the SFS-EN 1634 standard.



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.

SLIDING DOORS

A sliding door is a great option for cold warehouses with plenty of side space. Lightweight sliding doors are easy to use and made from the same durable and high-quality materials as Findoor folding doors.



Explore Findoor sliding doors here.





MADE IN FINLAND



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

Every single door is fabricated at our own factory to fit exactly the specifications from each customer. This means that you will get precisely the door you want with respect to dimensions and appearance.

A minimal number of moving parts means maximally worry free and operationally reliable door. After its installation, the folding door will easily last the next 20 – 30 years with just a bit of maintenance. If you do anticipate having maintenance needs more frequently, you can sign onto our Findoor Carefree Contract, whereby you will outsource the maintenance to us.

Structure:

- The structure is built using a self-made, energy-efficient, and lightweight sandwich structure, either 50 or 60 mm thick.
- The surface of the door is made of hot-dip galvanized, powder-coated steel sheet, with a thickness of at least 0.5 mm.
- The organic coating thickness of the steel sheet is 50 µm.
- The U-value of the structure is 0.48 W/(m²K) with a 60 mm insulation and 0.58 W/(m²K) with a 50 mm insulation.



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 20 mm when opened.
- Windows: 2K-selective thermal glass. Windows below 700 mm 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 10000mm Height 8000mm	
Wind class	4	EN 12244, EN 12424
Air permeability class	±4 depending on the door size.	EN 12444, EN 12424
Water resistance class	3	EN 12489, EN 12425
U-value	U=0,68 W/(m²K) 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	2K selective glass. Windows below 700mm in height are toughened. Pass doors come standard with a door closer, lock body, key cylinder, and handle set.	
Aluminums	All aluminum parts have thermal breaks, including the pass doors and windows!	
Safety	Our doors are safety-tested according to standard EN 13241. The doors are designed to be slash-resistant.	
Mechanical durability	Tested for 200,000 opening cycles according to standard EN 12605.	



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:

- 0.73 W/m²K for a solid 4-panel folding door with dimensions 4000×4000 mm and 60 mm insulation.
- 0.99 W/m²K for a 4-panel folding door with dimensions 4000×4000 mm, including windows (size 500x1000 mm), and 60 mm insulation.
- 1.03 W/m²K for a 4-panel folding door with dimensions 4000×4000 mm, including windows (size 500x1000 mm) and an pass door, with 60 mm insulation.





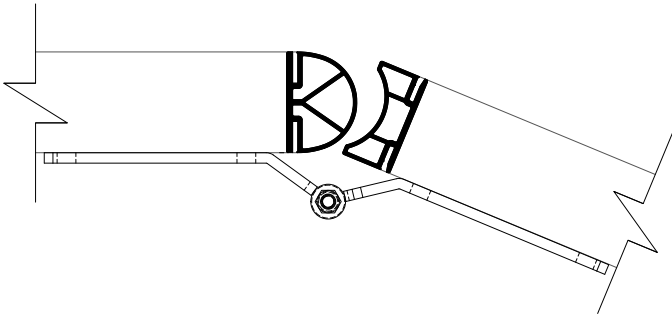


COLOR OPTIONS

Findoor folding doors use weather-resistant and high-quality sheet metal, which is also used in building roofs. Our standard colors are available from the RR color chart. 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 25mm seals that snugly fit against the door frame. At the bottom of the door, a 40mm high double seal presses tightly against the floor when the door closes. The structure of the seals is designed to prevent freezing.



RR20 White



RR21 Light Gray



RR22 Gray



RR23 Dark Gray



RR40 Silver



RR41 Dark Silver



RR32 Dark Brown



RR24 Light Yellow



RR35 Blue



RR29 Red



RR750 Brick Red



HINGES

- All hinges on the door are made of galvanized steel.
- Standard lifting hinges gradually lift by 20mm.
- 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.

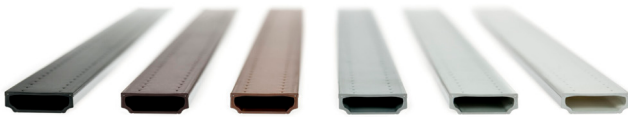
FOLDING DOOR FEATURES

PASS DOOR

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

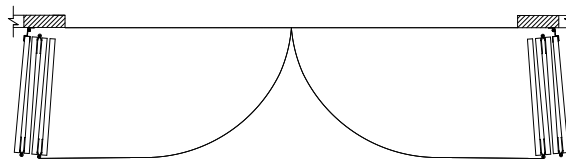
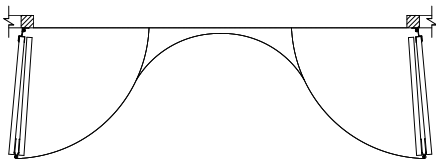
WINDOWS

Highly insulating and light-transmitting 2K thermal glass units that remain clear for decades. Our glass units feature modern TGI spacers.



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.

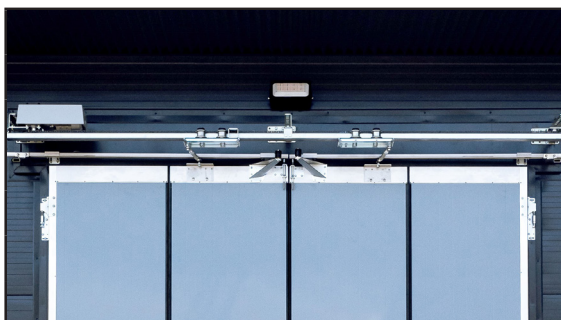


ELECTRICALLY OPERATED FOLDING DOORS

Folding doors can also be equipped with different kind of 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!



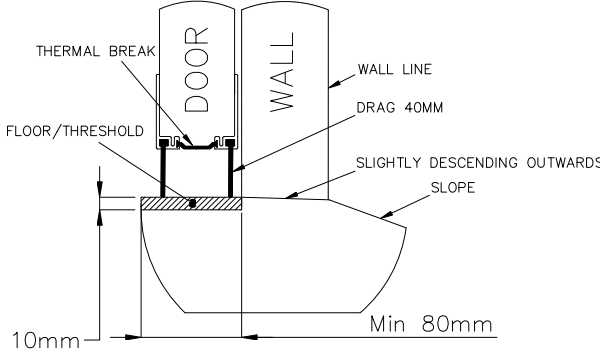
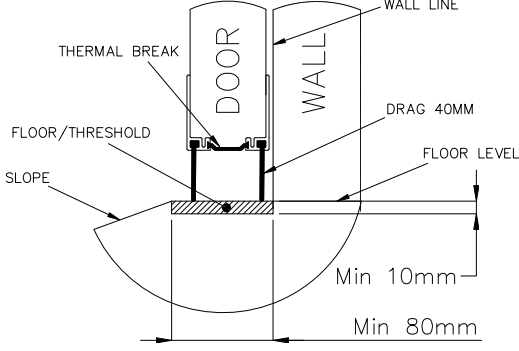
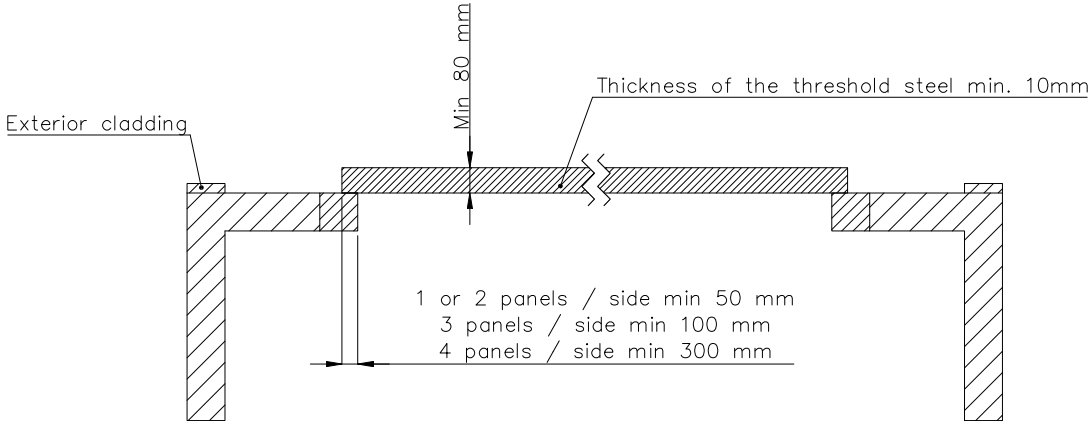
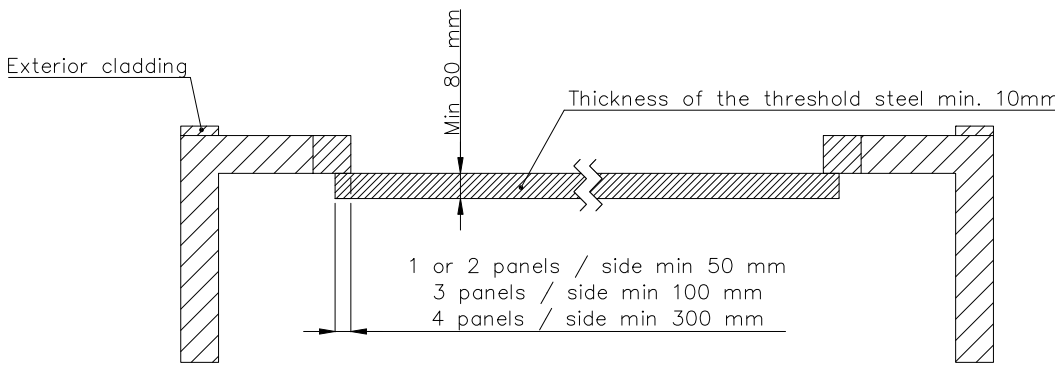
FD-OPERATOR	
SUPPLY VOLTAGE	230 V
OPENING SPEED	~15 seconds
TIMES OPENING/DAY	Max. 100 times a day
MAX. PANEL SIZE	Max. 1500 mm
CONTROL	Remote control & fixed opening button
SAFETY DEVICES	Photocells and load guard



CHAIN OPERATOR	
SUPPLY VOLTAGE	400 V
OPENING SPEED	~8 seconds
TIMES OPENING/DAY	Max. 200 times a day
MAX. PANEL SIZE	Max. 1800 mm
CONTROL	Remote control & fixed opening button
SAFETY DEVICES	Photocells and safety edges



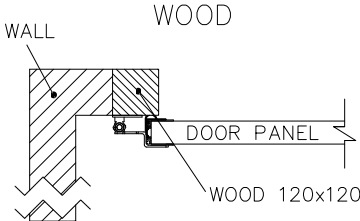
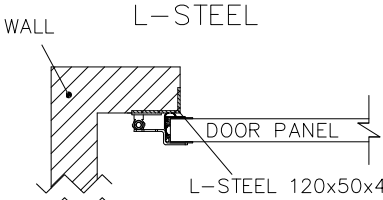
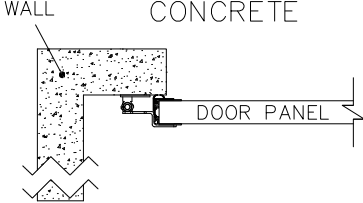
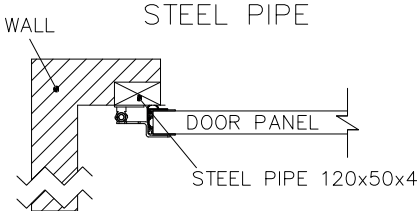
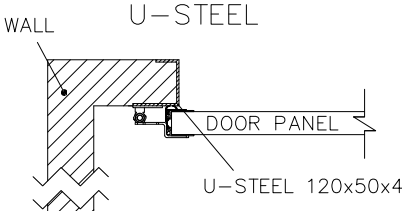
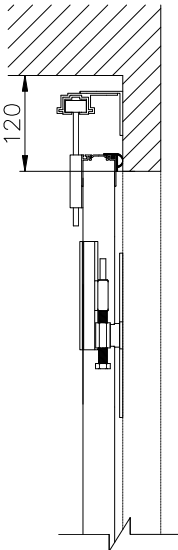
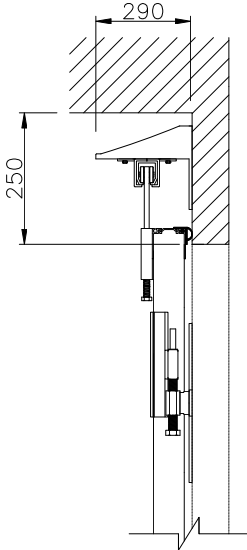
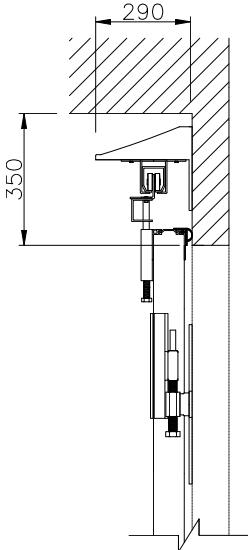
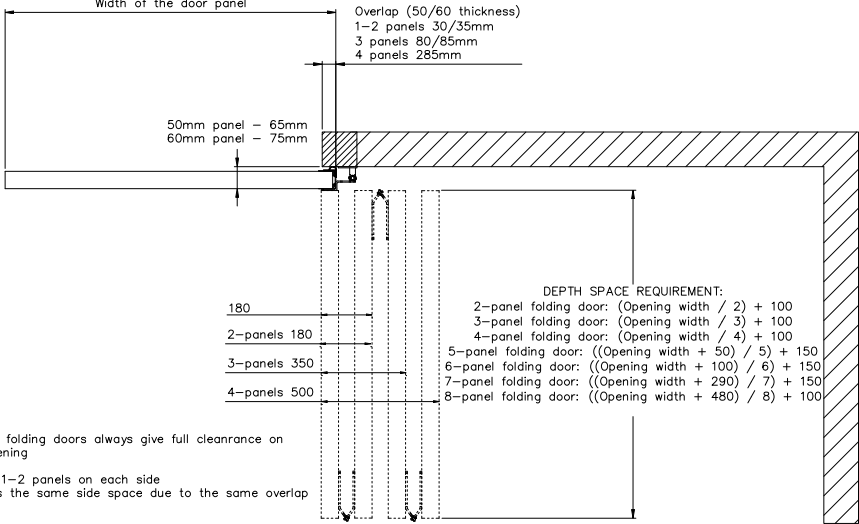
The table below generally determines the number of door panels based on the width of the door opening. We can also manufacture solutions that deviate from the table.

Width of the door opening in millimeters		Amount of door panels	
0-2450		2	
2451-3700		3	
3701-5000		4	
5001-6270		5	
6271-7550		6	
7551-8800		7	
8800-10000		8	
Inswing		Outswing	
Threshold side view		Threshold side view	
Outswing door threshold top view			
Inswing 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	 WOOD WOOD 120x120	 L-STEEL L-STEEL 120x50x4	 CONCRETE	
	 STEEL PIPE STEEL PIPE 120x50x4	 U-STEEL U-STEEL 120x50x4	Note! 1 or 2 panels / side - 120mm 3 panels / side 200mm 4 / side 400mm Details shows 1 or 2 panel option	
	Guide track 2,3 and 4 panel doors	Small carrying track 4,5 and 6 panel doors	Big carrying track 7 and 8 panel doors	
Tracks	 120	 290 250	 290 350	
Space requirements	 Width of the door panel Overlap (50/60 thickness) 1-2 panels 30/35mm 3 panels 80/85mm 4 panels 285mm 50mm panel - 65mm 60mm panel - 75mm 180 2-panels 180 3-panels 350 4-panels 500 DEPTH SPACE REQUIREMENT: 2-panel folding door: $(\text{Opening width} / 2) + 100$ 3-panel folding door: $(\text{Opening width} / 3) + 100$ 4-panel folding door: $(\text{Opening width} / 4) + 100$ 5-panel folding door: $((\text{Opening width} + 50) / 5) + 150$ 6-panel folding door: $((\text{Opening width} + 100) / 6) + 150$ 7-panel folding door: $((\text{Opening width} + 290) / 7) + 150$ 8-panel folding door: $((\text{Opening width} + 480) / 8) + 100$ Indoor folding doors always give full clearance on the opening Having 1-2 panels on each side requires the same side space due to the same overlap			



BASIC FEATURES:

- Frame doors are made as a single-leaf entrance door or a double-leaf pair door.
- The door frame consists of a self-made, energy-efficient, and lightweight sandwich structure, 60 mm thick.
- The surface of the door is made of hot-dip galvanized, powder-coated steel sheet, with a thickness of at least 0,5 mm.
- The U-value of the structure is 0,48 W/(m²K).
- The frame of Findoor frame doors, as well as the aluminum surrounding the door, are thermally broken.
- Color according to the RR color chart!

SEALING:

- The sealing of Findoor frame doors is made from weather- and wear-resistant EPDM rubber.
- The structure of the seals is designed to prevent freezing.

THRESHOLD:

- For Findoor frame doors, a 50 mm high threshold or a double drag is available, ensuring that there is no threshold left in the doorway.

LOCKING:

- Findoor frame doors come standard with a lock body, key cylinder, handle set, and a self-closing door closer.
- Electric locks and their installations are also available; please inquire with our sales representatives for more information.
- Emergency exit devices compliant with EN1125 and EN179 are also available.

SAFETY:

- Our frame doors have been safety tested according to standard EN 13241.



1. FRAME DOOR



2. DOUBLE FRAME DOOR



LIGHTWEIGHT STRUCTURE

Findoor sliding doors are a great solution for lighter class warehouses with plenty of side space. Using a lightweight sliding door is easy and can be done effortlessly even alone.

DURABLE MATERIALS

We use the same durable materials in our sliding doors as in our folding doors. Coated steel sheet and a water-resistant structure ensure that the sliding door operates year after year, regardless of the weather.

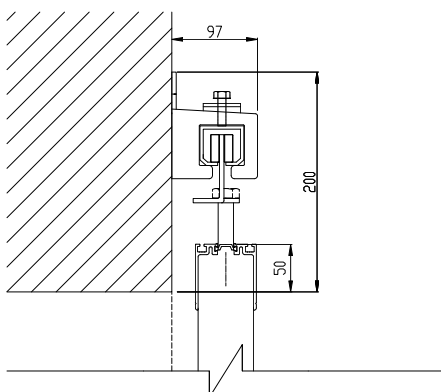
FIRE RATED AND ELECTRICALLY OPERATED SLIDING DOORS

Sliding doors are available with EI120 fire classification if needed. Electric operator can also be installed in the sliding doors. All our sliding doors come with a two-year warranty, regardless of the installation method.

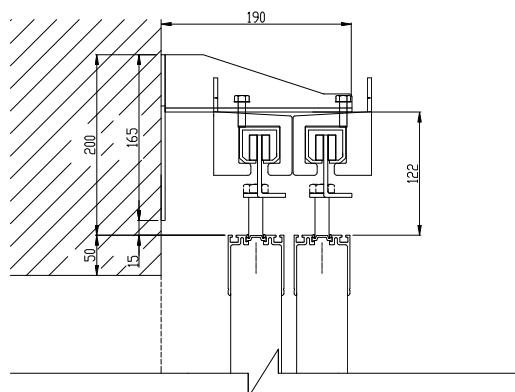
SPACE REQUIREMENTS

Findoor sliding doors use the same excellent sliding tracks as our folding doors. Individual sliding doors require a 200 mm mounting surface. If you want multiple parallel sliding doors, the requirement for the upper mounting surface is 250 mm. Please note that the upper mounting surface is double the width of the opening.

2. SINGLE SLIDING DOOR



2. PARALLEL SLIDING DOORS





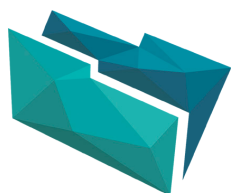
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DOOR REVOLUTION

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ProdLib

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!

FOLLOW US IN SOCIAL MEDIA!

