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Beginning of **NEW**FOLDING

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History

2014 2014 11 FOLZEN KOREA incorporated 2014 11 Patented – Folding door handles 2014 11 Patented – Folding doors with opening & shutting angle–adjustable gallery windows 2015 2015 07 Office building moved (Sinheung-dong 3-ga, Incheon) 2015 07 System doors released 2016 2016 02 Patented - Folding door with integrated moving guide 2016 03 Obtained Certificate of Design Registration - Folding door guide frame 2016 07 Obtained Certificate of Design Registration – Door frame shape 2016 07 Sponsored MBC TV series - 'W' 2016 08 Obtained Certificate of Design Registration - Door panel frame 2016 08 Obtained Certificate of Design Registration – Door panel shape 2016 09 Sponsored MBC TV series - 'Shopping King Louis' 2016 11 MBC TV series - 'Weightlifting Fairy Kim Bok-ju' 2016 11 Sponsored MBC TV series - 'Night Light' 2017 **2017 06** Type of business added – Wholesale & retail businesses 2017 06 Increase in the number of material suppliers 2017 07 Sliding doors and polyamide insulated folding doors developed 2017 11 Sponsored tvN TV series - 'Prison Playbook' 2018 2018 01 Sponsored MBC TV series - 'Radio Romance' 2018 01 Sliding doors developed and manufactured 2018 01 Polyamide insulated folding doors developed and manufactured 2018 02 Obtained Certificate of Design Registration - Door frame 2018 02 Obtained Certificate of Design Registration - Door frame II 2018 03 Sponsored KBS TV series - 'Queen of Mystery, Season II' 2018 03 Sponsored MBC TV series - 'The Great Seducer' 2018 03 Insulated Folding Door Test Results (Class 2) (24T insulated glass 1.400) 2018 05 Participated in MBC Construction EXPO (Ilsan KINTEX) 2018 10 Patented – Door frame connection device 2018 11 Awarded 'Incheon City Mayor's Prize' in startup business at I-STARTUP 2018 12 Commendation from the Minister of SMEs and Startups [Venture Startup Promotion Reward]

Performances



Public	fac	ilities
Gyeyang		
(Incheon) Station, J		
Gyeyang		
KORAIL.	Seoul	METRO

PASCUCCI, Twosome Place, GRIDAGGUM, EDIYA, SULBING, Paik's Coffee

Cafe

HANAM PIG. MAPO GALMAEGI. MY THAI (Itaewon), Cheongchun Pocha, Gwangjang Pocha, MEKONG THAI, YEONEOSIDAE, Myth Jokbal, DONI BURGER

Food

AUTO Q (KIA). SsangYong Motor, FM7, Blue Hands (Hyundai)

Automobile

Hilton Hotels & Reports, LOTTE WORLD, LOTTE HOTEL JEJU, KENSINGTON JEJU HOTEL, Seoul National University Hospital, Incheon National University, Sejong University Gunja Hall, Gapyeong Benest Golf Club

Others

Certification





Venture Business











Certificate of

- Door Panel Shape





Certificate of Design Registration

– Door Frame Shape

Design Registration

– Door Panel Shape









Design Registration

- Door Frame



Design Registration











Certificate of Design Registration

Certificate of Design Registration



Certificate of Design Registration

Certificate of Design Registration



Insulated Folding Door Test Results

the way to trust KCL



TEST REPORT

1. NO : EC17-00293_M1

2. Client

O Name : FOLZEN KOREA INC.

O Address: 27, Seohae-daero 180 beon-gil, Jung-gu, Incheon, Republic of Korea

3. Date of Test: 2017.06.30 ~ 2018.10.01

4. Use of Report: For Regulation on Energy Efficiency Labeling

5. Test Sample : FZ-SF70A

6 Test Method

(1) Ministry of Knowledge Economy Korea Energy Management Corporation 2018-183

7. Test Results

1) FZ-S070

Test Item(s)	Unit	Test Method	Test Results	Remark
√Thermal transmittance	W/m² - K	(1)	1.400	(20.3 ± 5) °C (54 ± 15) % R.H.
√Air-leakage - Infiltration rate (Grade)	m'/(h · m')	(1)	0.17 (Grade 1)	(21.1 ± 1.5) °C (60 ± 5) % R.H.

The checked test property with the mark of "√" is the recognized test property by the KOLAS.

© Test specimen composite - 1)Frame material : Aluminium, 2) Composition of Glasses(24mm) Low-e5(soft, KCC)+Ar14+Low-e5(soft, KCC), 3)Spacer material: Thermal spacer

7-1) Summary of result, 7-2) Test Results of Thermal Transmittance, 7-3) Test Results of Air Leakage, 7-4) Specimen Drawings, 7-5) Specimen Photos

Affirmation Name :

Technical Manager Kay houtet Name : Lee In Woo

ZEN KOREA

Heat **Transmittance**

1.4 W/m²·K

Reissuance(R1)

Date: 2018.11.19

Modification(M1)

Date: 2018.10.11

Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the qualities of the lot from which the sample was taken or of apparently identical or similar products.

The above test certificate is the accredited test results by Korea Laboratory Accreditation Scheme. which signed the ILAC-MRA.

2018.10.01

Korea Conformity Laboratories President Yoon Kap Seok Joen, Kapbeel

Accredited by KOLAS, Republic of KOREA

Address: 21591 85, Dambang-ro, Namdong-gu, Incheon, Korea 82-32-460-5100

Result Inquiry: Incheon & Gyeonggi Branch 82-32-460-5133





24T Insulated glass applied

• Air tightness: Class 1 • Heat transmittance: 1,400

Hardware

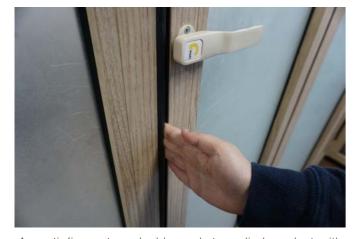




A very durable and unbreakable patented product which does not need an assistant handle



Very solid and durable made of high-strength aluminum (AL,6N01) alloy; easily opened/shut with roulette shaft



An anti-finger-trap double gasket-applied product with great sealing force



A SUS bearing roller type made of high-strength aluminum (AL.6N01) alloy; easily opened/shut through the rail

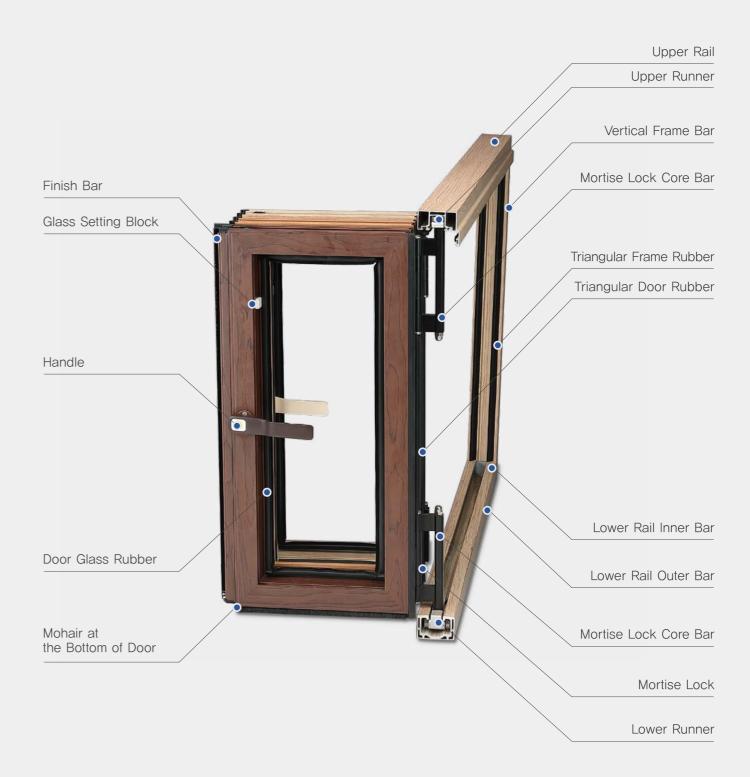


strength aluminum (AL.6N01) alloy; smoothly opened/shut, the floor playing a role of the lower runner and guide



Designed to reduce damage and wear rates made of high- Lower rail suitable to housing facilities; rails unburied under

Product Name & Hardware









Window Type

FZ-SF40

An exterior folding window; window-type lower rails, not regular lower rails, applied Keeps wind and rainwater from penetrating through the frame (applied to places where people cannot come in or go out)

Model Indoor / outdoor
Frame material (AL,6N01) profile

Installation space Max. door width - 800mm, max. door height - 3000mm

Maximum number of panels 30 (right, left: 15 panels each)

Glass size 5mm, 8mm, 10mm, 12mm, 16mm, 22mm, 24mm

Glass type Tempered glass, transparent glass, insulated glass, etc.

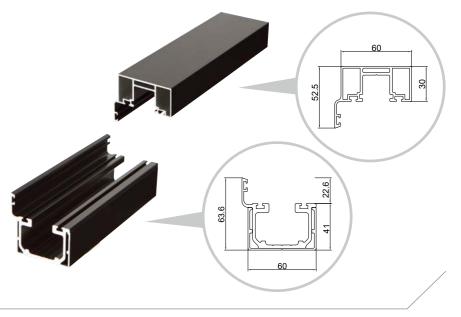
Coating Fluororesin coating (black, white, chocolate, silver, gray, others)

Effects Windproof, soundproof, anti-dew, anti-leakage

Hardware Upper/lower track runner, standard smart handle, simultaneous

upper and lower tightening

Window Type Upper/Lower Rail Profile Image and Detailed View









General Type FZ-SF50

A basic type of smart luxury/smart folding series; made up for the weakness of folding doors through continued studies and a lot of investments based on extensive knowhow and technologies Connecting rod-assembly type, not conventional piece-assembly type; solid and durable Easy construction and reduced installation time with the use of track-connecting rod at frame installation

Model Indoor / outdoor

Frame material Aluminum (AL,6N01) profile

Installation space Max. door width - 800mm, max. door height - 3000mm

Maximum number of panels 30 (right, left: 15 panels each)

Glass size 5mm, 8mm, 10mm, 12mm, 16mm, 22mm, 24mm

Glass type Tempered glass, transparent glass, insulated glass, etc.

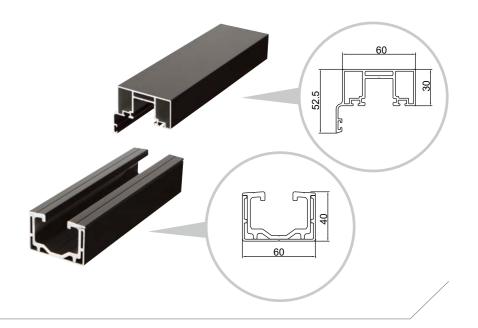
Coating Fluororesin coating (black, white, chocolate, silver, gray, others)

Effects Windproof, soundproof, anti-dew, anti-leakage

Hardware Upper/lower track runner, standard smart handle, simultaneous

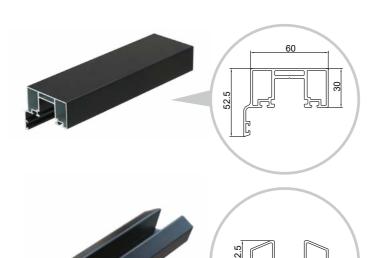
upper and lower tightening

General Type Upper/Lower Rail Profile Image and Detailed View





Slim Lower Rail Type Upper/Lower Rail Profile Image and Detailed View







Slim Lower Rail Type

FZ-SF57

Folding doors designed for housing facilities; Applicable to in balcony-extended apartment or houses without being buried under the floor; does not disturb people's moving with low lower rail

Model Indoor / outdoor

Frame material Aluminum (AL,6N01) profile

Max. door width - 800mm, max. door height - 3000mm Installation space

Maximum number of panels 20 (right, left: 10 panels each)

Glass size 5mm, 8mm, 10mm, 12mm, 16mm, 22mm, 24mm Glass type Tempered glass, transparent glass, insulated glass, etc.

Coating Fluororesin coating (black, white, chocolate, silver, gray, others)

Effects Windproof, soundproof, anti-dew, anti-leakage

Hardware Upper/lower track runner, standard smart handle, simultaneous

upper and lower tightening

▼ The highest in the Republic of Korea 8000mm





Supports both upper and lower parts simultaneously; applicable to unusual places which are not under standard specifications; holds the door tight without loosening by supporting both lower and upper parts simultaneously unlike a regular lower part-supporting product

Model Indoor / outdoor

Frame material Aluminum (AL,6N01) profile

Installation space Max, door width - 800mm, max, door height - 8000mm

Maximum number of panels 30 (right, left: 15 panels each)

Glass size 5mm, 8mm, 10mm, 12mm, 16mm, 22mm, 24mm

Glass type Tempered glass, transparent glass, insulated glass, etc.

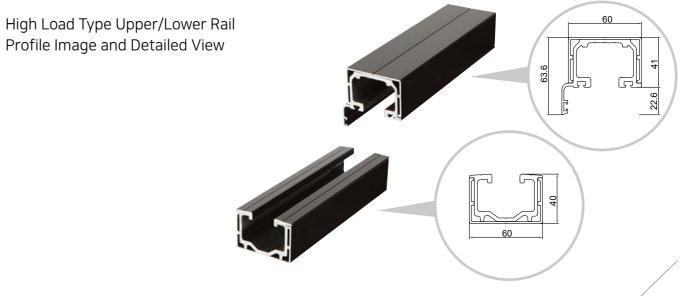
Coating Fluororesin coating (black, white, chocolate, silver, gray, others)

Effects Windproof, soundproof, anti-dew, anti-leakage

Hardware Upper/lower track runner, standard smart handle, simultaneous

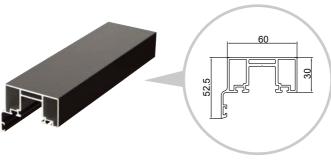
upper and lower tightening

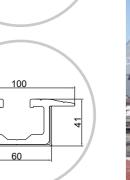






Auto Body Shop Only Upper/Lower Rail Profile Image and Detailed View









Auto Body Shop Only

FZ-SF65

Applied to the automobile lower rail (high-strength aluminum alloy 6N01); rail is strong enough to stand vehicle and heavy equipment (Good for an auto body shop/factory entry door)

Model Indoor / outdoor

Frame material Aluminum (AL,6N01) profile

 $\label{eq:max.doorwidth} \textbf{Installation space} \qquad \qquad \textbf{Max. door width} - 800 \text{mm, max. door height} - 6000 \text{mm}$

Maximum number of panels 30 (right, left: 15 panels each)

Glass size 5mm, 8mm, 10mm, 12mm, 16mm, 22mm, 24mm

Glass type Tempered glass, transparent glass, insulated glass, etc.

Coating Fluororesin coating (black, white, chocolate, silver, gray, others)

Effects Windproof, soundproof, anti-dew, anti-leakage

Hardware Upper/lower track runner, standard smart handle, simultaneous

upper and lower tightening



Insulated Folding FZP-SF70

An insulated anti-dew folding door which reduces energy loss caused by the thermal conductivity of aluminum and prevents condensation with polyamide

Air tightness: Class 1, Heat transmittance 1,400

A product made of 24T insulated glass with great insulated, soundproof and windproof effects

Model Indoor / outdoor

Frame material Aluminum (AL,6N01) profile

Installation space Max. door width - 800mm, max. door height - 6000mm

Maximum number of panels 30 (right, left: 15 panels each)

 $24\text{mm}{\sim}35\text{mm}$ Glass size

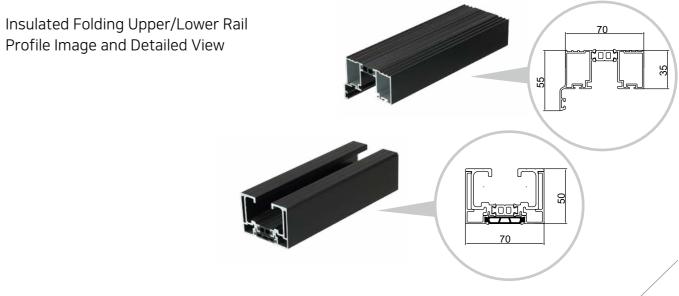
Tempered glass, transparent glass, insulated glass, low-E glass, etc. Glass type Coating Fluororesin coating (black, white, chocolate, silver, gray, others)

Effects Windproof, soundproof, anti-dew, anti-leakage

Hardware Upper/lower track runner, standard smart handle, simultaneous

upper and lower tightening











A fixed door designed for easy space division and great view





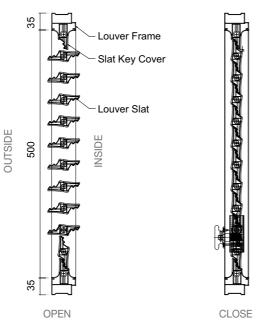
W o o d Folding

A thermally patterned aluminum folding door in wood color Installable indoor and outdoor with great weather—proof and corrosion—resistant effects















Louver Folding

FZ-SL50

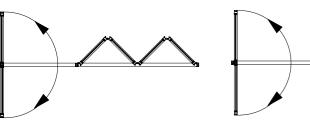
A folding door with the advantages of louver; blocks UV rays and direct sunlight; easily ventilated during winter or rain even without opening the door Able to adjust the angle precisely; reduces indoor heat loss and saves energy

Spendor

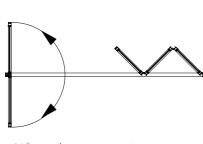
A folding door with visual effects of interior design; preferred among young ladies



Hinge door (main door) applications



180° open/closed Even-numbered





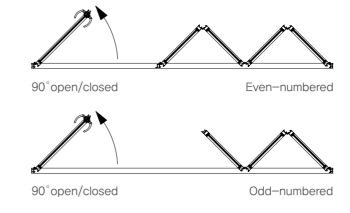


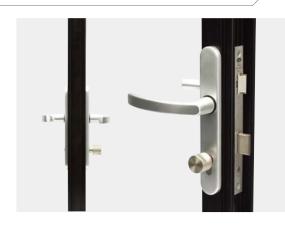
Hinge Door

An entry door which swings up to a 180 degree; compatible with a folding door; able to open and close the entire door; lockable



Mortise lock (main door) applications





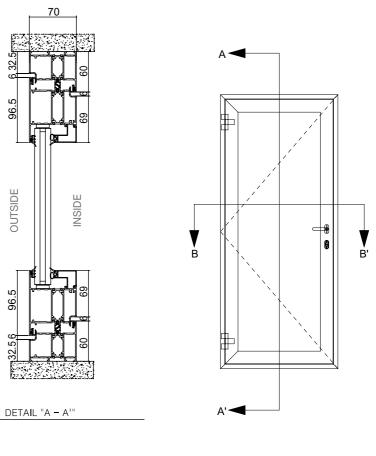
Mortise lock Door

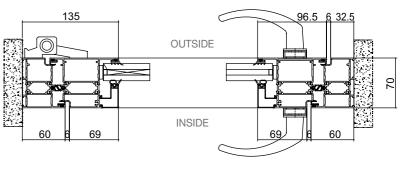
An entry door which swings up to a 90 degree in one direction only; compatible with hinge and mortise lock doors; able to open and close the entire door; lockable













System D o o r

An entry door for housing and commercial facilities; great insulation and airtightness with the use of system polyamide

Model Indoor / outdoor

Frame material Aluminum (AL,6N01) profile

Insulating material Polyamide
Glass size 24mm~35mm

Glass type Tempered glass, transparent glass, insulated glass, low-E glass, etc.

Coating Fluororesin coating (black, white, chocolate, silver, gray, others)

Effects Windproof, soundproof, anti-dew, anti-leakage

Current Door Frame-based Folding Door

Forget the old routine - 'remove chassis and then install folding doors'.

Fascinating interior design and great finish as well! This door is designed for those who want some folding doors only, not overall remodeling; effective construction skipping removal and other unnecessary processes (Good for occupied houses)



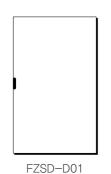
Sliding

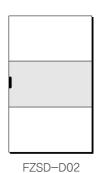
A slim sliding door which partitions space; offers a great open view and free to choose patterns and sliding glass; fascinating interior design added to housing space

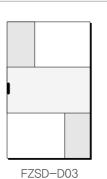


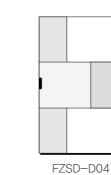


Sliding Door Partition Dividing









Turning Door

Open/closed in both directions; auto-closing; great open view (95%); efficient use of space; safety damper

Aluminum frame + interior film wrapping (Free to choose diverse colors)





Safety Damper Patented

The door is being closed smoothly and prevents finger trap injuries.





The gear is designed to rotate in both directions for safe and smooth opening/closing.





Auto-closing Hinge

The door can be easily opened and closed since it is automatically returned to the closed position by little force.



Asymmetric Door (Pair Door)

Open/closed in both directions; auto-closing; efficient use of space; the other door has a lock

Aluminum frame + interior film wrapping (Free to choose diverse colors)





The door can be easily opened and closed since it is automatically returned to the closed position by little force.



Door Lock

There is a lock in the upper part of the other door. During ordinary time, only one door is used. If necessary, both doors are operated.





Door Control

There is a magnet inside the door hinge, making both doors well closed.



B i k e Pullway

It is a modular bike pullway which can be installed at any stairs in different width and height. As a prefabricated extruded product, it has made up for the weakness of conventional products. This product also minimized risk factors, skipping welding and grinding processes, and it can be installed quickly. With easy repair and maintenance, furthermore, it can reduce costs, With ergonomic design, it was honored to receive a prize at Good Design and the world's top three design awards: Red Dot Design Award, iF Design Award, IDEA Design Award, With excellence in quality, it's been provided to public organizations across the country such as railway/subway operating agencies (e.g., KORAIL, Seoul Metro, Incheon/Daegu/Gwangju Subway, etc.), 6 metropolitan cities (e.g., Seoul, etc.), Sejong Special Self—governing City and Jeju Special Self—governing Province.











Multipurpose R a m p

This multipurpose ramp is easily assembled and installed at any places such as slope and uneven site for an easy pass of wheelchairs, strollers and luggage bags. Made of high-strength aluminum, it is highly durable. In addition, it has dramatically reduced installation costs and time, compared to conventional construction methods. The adoption of antislip design has increased safety. Considering esthetic aspects, it looks good in any environments. It's been installed at almost all places including KORAIL, Seoul Metro, LG-Philips LCD Paju Plant, various special schools and car display zones, proving its excellence.







Bike Pullway Construction Performances

Railway and Subway Stations Seoul Station and 3 others (KORAIL Airport Railroad)

Yongsan Station and 7 others (KORAIL Jungang Line)
Uijeongbu Station and 10 others
(KORAIL Gyeongwon Line)
Munsan Station and 17 others (KORAIL Gyeongui Line)

Sangbong Station and 17 others (KORAIL Gyeongchun Line) Songdo Station and 7 others (KORAIL Suin Line) Incheon City Hall Station and 18 others (Incheon Subway)

Dongdaegu Station and 21 others (Daegu Subway) Samgakji Station (Seoul Metro) Others

Apartment and Others

Incheon Songdo Haemoro Apartment Jeongseon-gun Office Building KT Seocho Office, Seoul Taeneung Rainwater Pump Station Junggye Jugong Apartment Complex 5 Others

Viaduct Bridge

Soraedaegyo Bridge (Incheon) Seogyeongogagyo Bridge (Bundang) Bangjangsan Tunnel Gogagyo Bridge (Pohang) Baekokgyo Bridge (Gyeongsan) Others

Terraced Land on the River

Sicheongyo Bridge (Incheon)

Gyulhyeongyo Bridge (Incheon)

Yeonsugogagyo Bridge (Incheon)

Seongnaecheon Stream (Seoul)
Yangjaecheon Stream (Seoul)
Seunggicheon Stream (Incheon)
Songdo Neigihborhood Park Detention Basin (Incheon)
Taehwagang River (Ulsan)
Wangsukcheon Stream (Namyangju)
Buyongcheon Stream (Ujijeongbu)
Bogangcheon Stream (Ujijeongbu)
Gongjicheon Stream (Jeungpyeon—gun)
Gongjicheon Stream (Chuncheon)
Gwangjucheon Stream (Gwangju Metropolitan City)
Pogokgyeongancheon Stream (Yongin, Gyeonggi-do)

Plaza and Park

Cheonggyecheon Plaza (Seoul Metropolitan Fa-

cilities Management Corporation)
Gwanghwamun Plaza (Seoul Metropolitan Facilities Management Corporation)
Hangang Park Yeouido Saetgang Pedestrian Bridge
Prehistoric Relics Park (Bucheon, Gyeonggi-do)
Others

Underground Passage and Road without Separate Pedestrian Walkway

Changdong Underground Road without Separate
Pedestrian Walkway (Seoul)
Nokcheon Underground Road without Separate
Pedestrian Walkway (Seoul)
Seo-gu Office Underground Passage (Incheon)
Yongdam Underground Road without Separate
Pedestrian Bridge (Incheon)
Juwon Pedestrian Bridge (Incheon)
Yangji 7-gil Pedestrian Bridge (Incheon)
Wonddong Elementary School Pedestrian Bridge
(Osan)

Imgok Underground Passage (Anyang)
Heungseon Underground Road without Separate
Pedestrian Walkway (Uijeongbu)
Terminal Samgeori Intersection Underground Pas—
sage (Wonju)
Donosin Underground Passage (Suwon)

Yeonghwa Underground Passage (Suwon)

trian Walkway (Bundang)

Songwon Pedestrian Bridge (Gumi)
Daejam Pedestrian Bridge (Pohang)
Yanghak Pedestrian Bridge (Pohang)
SK View Pedestrian Bridge (Pohang)
Gupo Intersection Pedestrian Bridge (Busan)
Gyeongsan Station Pedestrian Bridge (Gyeongsan)
KYUNGIL University Pedestrian Bridge (Gyeongsan)

Utgeori Underground Passage (Suwon)

Gimpo Airport Sky Park Pedestrian Bridge

Pedestrian Bridge

Hwaseong Underground Passage (Suwon)
Gyeongsan Station Okgok Underground Road with-

Sponsorship

















Portfolio

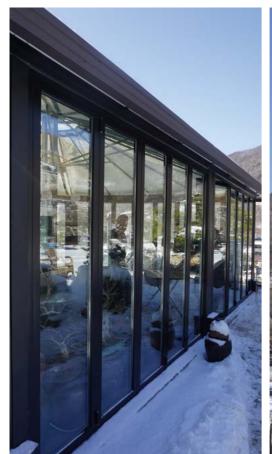








Portfolio



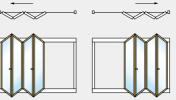


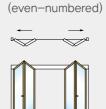


Folding Type

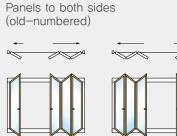
4-panel Bifold Door

All panels to the side



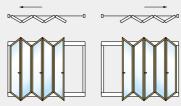


Panels to both sides

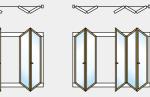


5-panel Bifold Door

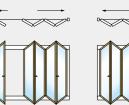
All panels to the side

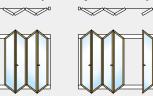




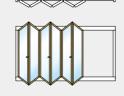


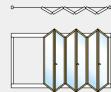
Panels to both sides (even/odd-numbered)

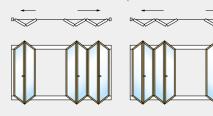




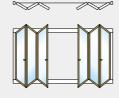
6-panel Bifold Door

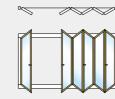


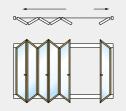




Panels to both sides (old-numbered)







Color Sample

* Please note that actual color may differ from the sample displayed herein. Use the color chart for reference only.

Sample

