

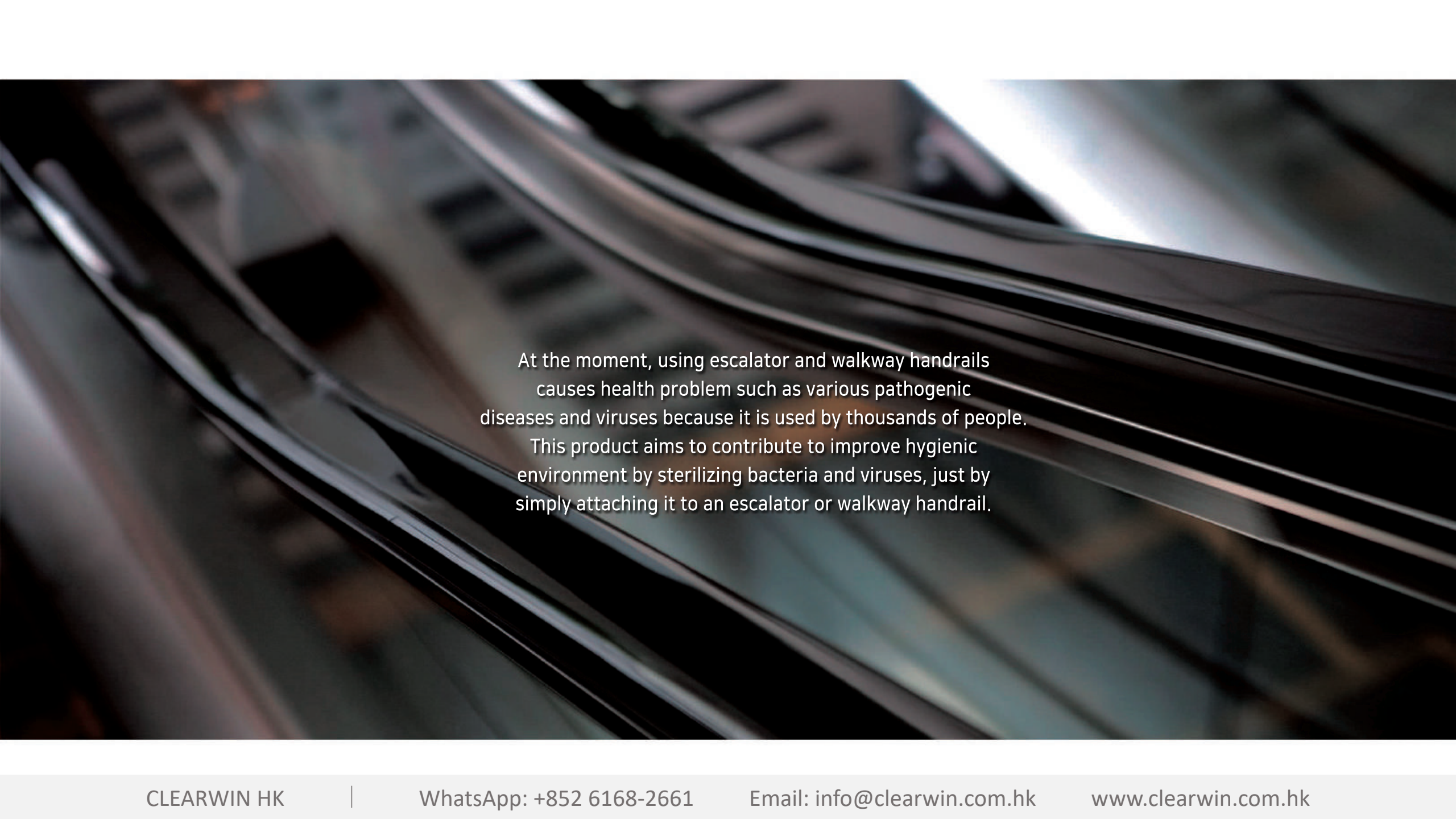
Escalator Handrail UV Sterilization



UV Sterilization Escalator Handrail

**CLEAR
WIN**

HANDRAIL ULTRAVIOLET STERILIZER
CLEARWIN



At the moment, using escalator and walkway handrails causes health problem such as various pathogenic diseases and viruses because it is used by thousands of people. This product aims to contribute to improve hygienic environment by sterilizing bacteria and viruses, just by simply attaching it to an escalator or walkway handrail.



Tempered glass type

Stainless steel type



*It is installable anywhere
as long as the escalators and moving walkways are there.*

Hospital



Transportation facilities



*Department
& Shopping mall*

Black & White color



Simple Design Cover



01

The main body is fixed to the balustrade of the moving walkways.



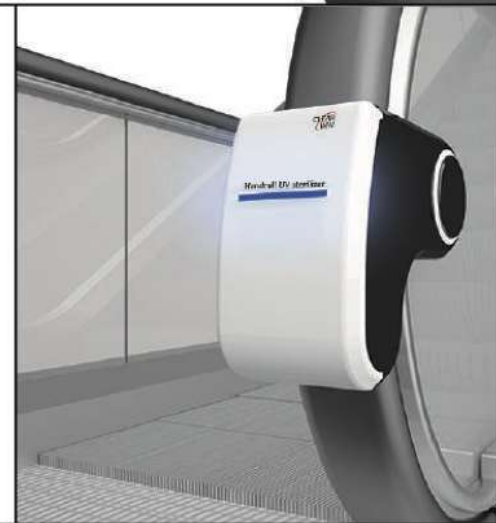
The roller contacts constant pressure on the handrail.

02



03

The rear roller and the handrail's rotational force, generates power.



Electric power is produced by the UV germicidal lamp, and operates the display by the lighting circuit configuration.

04

UV-C

UV-C sterilization

Most suitable process pasteurization
for Escalator handrail *UV-C*.



Safety

prevent hand squeeze by
multi-safe devices.

ESCALATOR HANDRAIL STERILIZER
CLEARWIN

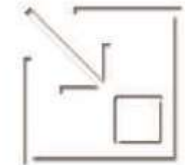


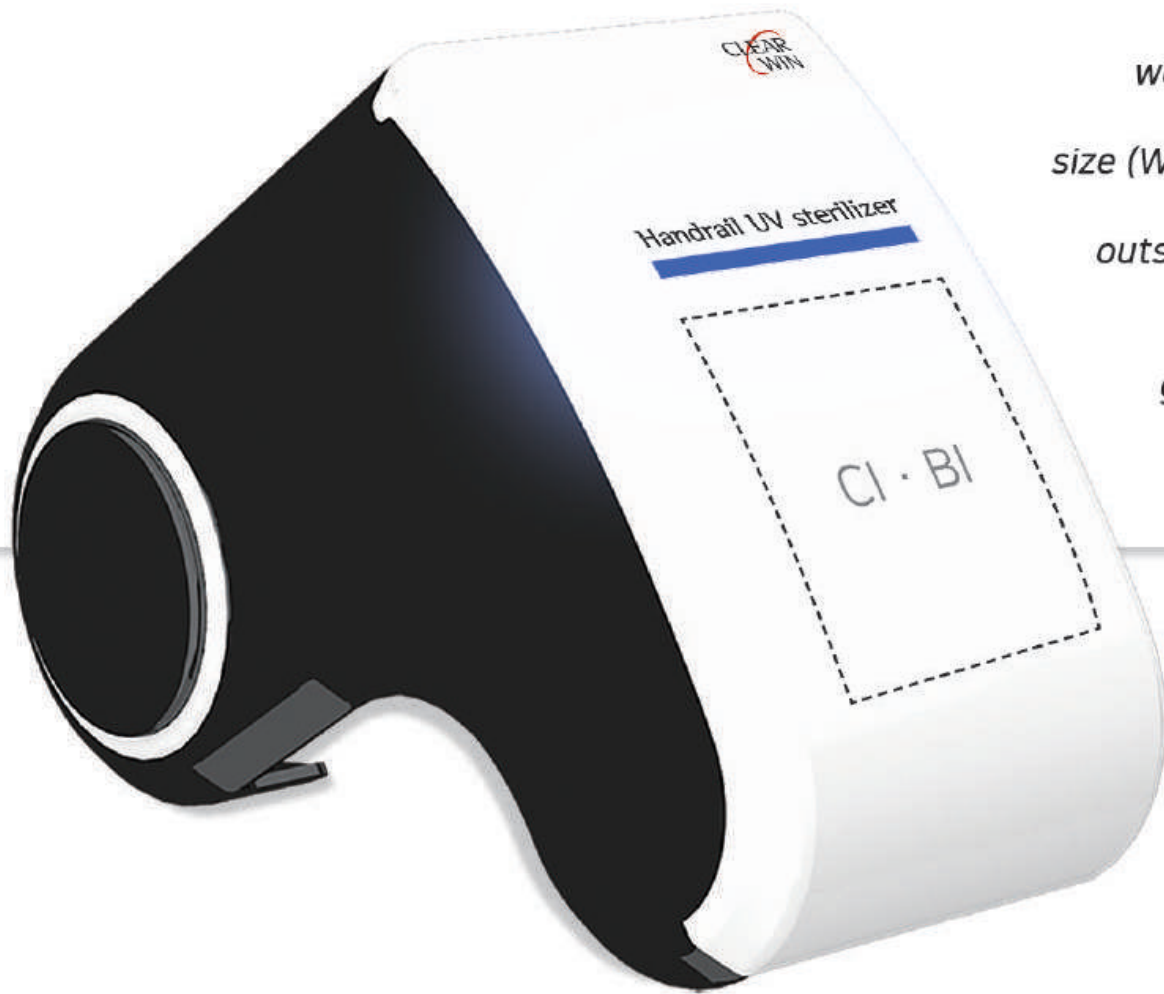
Self-generation

Eco-friendly *self-generation system*,
no need external energizer.

Compact & Lightweight

easy-installation by
downsizing & weight lightning.





weight (kg) | 1.8kg

size (WXHxD) mm | 130 x 220 x 260mm

outside cover | material ABS-AF312 flame retardant
color Black & White

generator | DC output 24V, 40~45W

LED UV-C | wavelength 278nm



UV sterilization method optimized for escalator
handrail sterilization

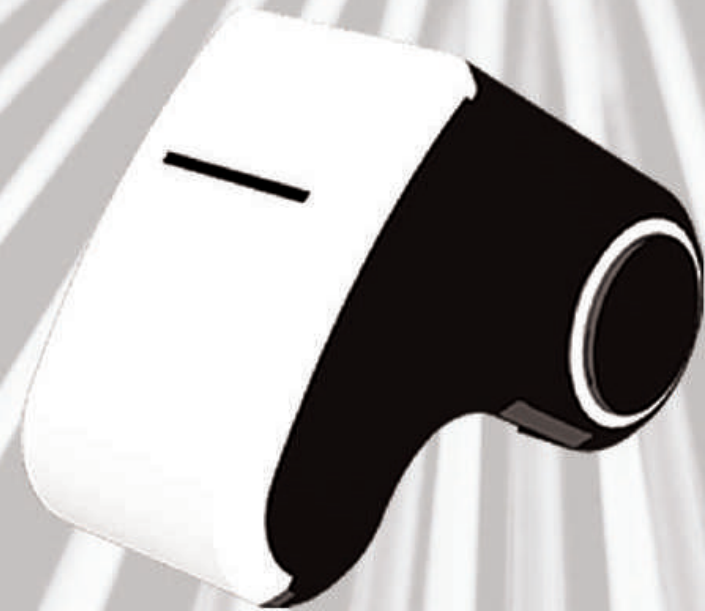
UV-C wavelength acting on virus most strongly

Comparison between UV sterilization and other sterilization methods

	UV sterilization	<i>Heat sterilization</i>	<i>Ozone sterilization</i>	<i>Chemical sterilization</i>	<i>Radio- sterilization</i>
<i>Sterilization of mycetoma</i>	Effective against all	Effective against all	Effective against all	Effective against specific	Effective against all
<i>Bactericidal change</i>	Little change	Occasional	Occasional	Occasional	Little change
<i>Permeability</i>	No permeability (except air and water)	Effective even inside the object	Effective on the object surface	Effective even inside the object	Effective even inside the object
<i>Sterilization time</i>	Short	Considerably	Long	Considerably	Short
<i>Usage</i>	Easy	Occasionally	Difficult	Easy	Difficult

E. coli
Staphylococcus
Candida
Influenza virus

*Certified for sterilizing
the Staphylococcus Aureus and E. Coli
by using sterilizing power of UV-C LED lamp.*





시험성적서

1. Client Name : SOOKYOUNGAI CO., LTD. Certificate No. : IL-1500356
Address : 804, Hyundai41 tower, 253, Mokedongdong-ro, Yangcheon-gu, Seoul-si, Republic of Korea Page(1) / (1)Page end.
Date of Receipt : Jan. 15, 2015 Date of Enforcement : Jan. 20, 2015

2. Use of Report : Quality management
3. Test Sample : Escalator handrail UV sterilizer device
4. Date of Test : Jan. 15, 2015 ~ Jan. 20, 2015
5. Test method used : Pour Plate Method
6. Testing Environment : Temperature : (25 ± 0.5) °C, Relative Humidity : (45 ± 5) % R.H.

Test Results

Items	Unit	Result					Remark
		The synthesis water	1 turn	10 turn	20 turn	30 turn	
Staphylococcus aureus	CFU/mL	1 000	190	260	99	110	-

Notice 1. The results shown in this test report refer only to the offered sample by client.
2. The test report cannot be used for the purpose of litigation or advertising, and shouldn't be republished without document approval.

Received by: Hyunho Seo
Tested by: Inkyu Beck
Technical Manager: Minhyoung Song

Korea Environment & Water Works Institute



시험성적서

1. Client Name : SOOKYOUNGAI CO., LTD. Certificate No. : IL-150107
Address : 804, Hyundai41 tower, 253, Mokedongdong-ro, Yangcheon-gu, Seoul-si, Republic of Korea Page(1) / (1)Pages
Date of Receipt : Feb. 2, 2015 Date of Enforcement : Feb. 9, 2015

2. Use of Report : Quality management
3. Test Sample : Escalator handrail UV sterilizer device lamp
4. Date of Test : Feb. 2, 2015 ~ Feb. 9, 2015
5. Test method used : Pour Plate Method
6. Testing Environment : Temperature : (35 ± 0.5) °C, Relative Humidity : (45 ± 5) % R.H.

Test Results

Items	Unit	Result				Remark
		The synthesis water	30 sec.	1 min.	2 min.	
Staphylococcus aureus	CFU/mL	1 500	Not Detected	Not Detected	Not Detected	-
Escherichia coli	CFU/mL	1 300	-	Not Detected	-	-

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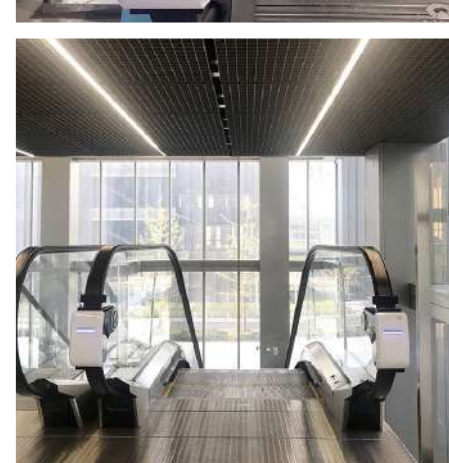
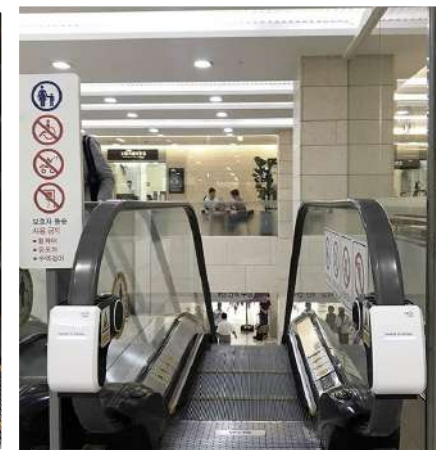
Korea Environment & Water Works Institute



Certified by
Korea Environment & Water Works Institute
Life, Environment & Food Institute
FITI Testing & Research Institute
Food Analysis Institute

Escalator Handrail UV Sterilization

Case Reference



Escalator Handrail UV Sterilization

Case Reference

KOREA PROJECT

Year	Date	Building
2016	0805	SEOUL SEVERANCE HOSPITAL
	1031	SEOUL CITY HALL
	1125	SUNG NAM CITY HALL
	1209	SEOUP HYUNDAI DEPARTMENT
2017	0123	DAEGU BUILDING MANAGEMENT D
	0213	DAEGU BUILDING MANAGEMENT B
	0719	SEOUL GFC B/D
	0815	SEOUL LG GROUP B/D
	0817	LG SEOUL B/D
	0818	LG GUANGHWAMONN B/D
	0825	SOOWON SAMSUNG LAB
	0909	SECURITY INDUSTRY B/D
	1003	SRT TRAIN STATION
	1102	KOREA SHINSAEGAE MALL
	1107	SEOUL GANGNAM TWOER
2018	1207	DAEGU BUILDING MANAGEMENT C
	1211	LG MUSEU,
	0130	INCHEON HOSPITAL
	0706	KT HEADQUARTER B/D
	0717	KT BOONDANG B/D
2019	0905	MIRAE STOCK B/D
	0920	IHWA HOSPITAL
	1010	SEOUL JONGRO LOTTE MALL
	0103	CJ GROUP B/D
	0412	SEOUL GRANDSEOUL B/D
	0415	SEOUL GNI B/D
	0502	SEOUL JONGRO BOOK STORE
	0520	SEOUL KT B/D
	0515	SEOUL SK STOCK B/D
	0604	SEOUL SOIL COMPNAY
2020	0701	DAEGU GAEMYUNG HOSITAL
	0723	KIMHAE AIRPOER
	0711	SEOUL HANLIM HOSPITAL
	0820	SEOUL NEWCORE DEPARTMENT
	0830	IKEA GOYANF
	1001	SEOUL D TOWER

KOREA PROJECT

Year	Date	Building
2019	1210	IKEA GIHUNG
	1219	SEOUL METER SADANG STATION
	1219	YANG CHEON STATION
	1219	ONSU STATION
	1219	CHUNGMOO-RO STATION
	1219	CHONGSIN DAE ATATION
	1219	YANGCHEONGU STATION
2020	0105	SEOUL IFC CENTER

OVERSEA PROJECT

Year	Date	Building
2016	1201	CHINA CITY HALL HOPITAL
	1230	CHINA BEIJING POSCO B/D
2017	1205	CHINA LG TWIN TOWER
	1219	DUBAI BIN SOUKET MALL
2018	0123	CHINA BEIJING WOLDCENTER MALL
	0302	HONGKONG POLYTEC
	0405	TAIWAN TINAN CITY HOSPITAL
	0425	TAIWAN TINAN SIN NAU MEDICAL
	0805	TAIWAN TAOYUAN AIRPORT
	0910	MALAYSIA GENTIG MALL
2019	1029	HONGKONG D-PARK
	0105	TURKEY ISTANBUL AIRPORT
	0312	MACAU GRAND EMPEROR CASINO
2020	0220	HYSAN PLACE
	0303	LEE GARDENS

MAJOR PENDING PROJECT

Location	PROJECT
Hong Kong	BANK OF CHINA
	MTR CORPORATION LIMITED
USA	TEXAS AIRPOT
	OTIS (OEM)
CHINA	OTIS (OEM)

*UL CERT. WILL BE ISSUED IN MARCH 2020.

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