

A business continuity plan (BCP) will be set up for the office building to ensure that business will not come to a halt in the event of a disaster.



## Prevention of power outages

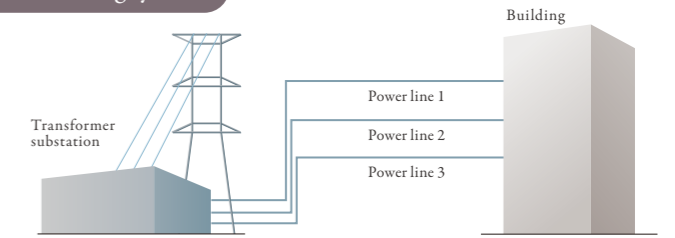
Measures to prevent power outages throughout the building in the event of a disaster

A triple backup system will be used to avoid corporate risks such as server shutdowns.



Triple circuit spot network power supply system

Triple circuit power receiving system



A generator can be used to provide power in the event of an outage in the transformer substation.

Medium-pressure gas

15VA/m<sup>2</sup> of power will be supplied for lighting and power outlets and 7VA/m<sup>2</sup> will be supplied for air conditioning for a minimum of 7 days in the event of a power outage.)

Heavy oil

15VA/m<sup>2</sup> of power will be supplied for lighting and outlets and 7VA/m<sup>2</sup> will be supplied for air conditioning for 72 hours in the event of an outage in the medium-pressure gas supply.

\*A separate charge will apply, and companies will need to lay a main line and install a switchboard. \*To prevent a temporary power outage when switching to the backup power supply, it will be necessary to install a UPS for an additional charge. \*The backup power supply will not be 100% of the usual supply, but around 1/4 of outlet power supply.

## Security

Security measures to provide peace of mind



Flapper gates

Flapper gates will be installed in the basement and on the first floor. Entry will be managed using a non-contact IC card reader.



Security in elevators

IC cards can be configured so that only authorized personnel can stop at particular floors (optional).



Elevator halls

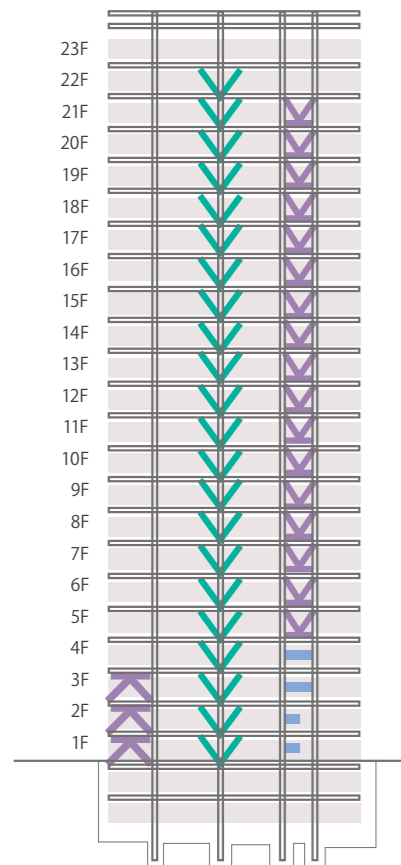
IC card security facilities can be installed in the elevator hall on each floor so that only authorized personnel can enter (optional).



Door security for leased offices

A non-contact IC card reader and electric lock will be installed on the dedicated door to each office to manage entry.

## Seismic damping



Schematic diagram of structure

Three quake-proof systems to ensure safety

Decentralized Seismic damping facilities will be installed on each floor to reduce shaking in the event of an earthquake or strong winds.



Buckling restraining brace

A steel sheet core encased in steel tubing and mortar will enable expansion and contraction to absorb energy and reduce damage to the building.



Oil damper

Efficiently absorbs vibration caused by earthquakes and wind, reducing shaking in the building.



Viscous wall dampers for quake-proofing

The gaps between the steel sheets will be filled with viscous damping materials to create resistance, absorbing vibration and reducing shaking in the building.

Measures to prevent power outages in common areas in the event of a disaster

Power will be supplied to both private and common areas in the event that a power outage occurs due to causes such as accidents. Reduced elevator operation in each bank will continue to be powered, and it will still be possible to use the bathrooms and the IC card facilities for entry, enabling offices to function as normal.



Elevators

2 out of 11 will operate



Toilets

Lighting Some can be used

Flush Some can be used

Sinks Some can be used



Lighting in common areas

30% lighting

## Disaster prevention base



Service water storage

Around 3 days' worth of service water (enough for around 1,000 people) will be stored, enabling people to use the toilets in the event that the water supply is cut off.



Reuse of rainwater

Rainwater will be filtered, enabling reuse for purposes such as toilet flushing.



Water-efficient toilets

Water-efficient toilets will be adopted to reduce the volume of water used with each flush, contributing to water-saving.



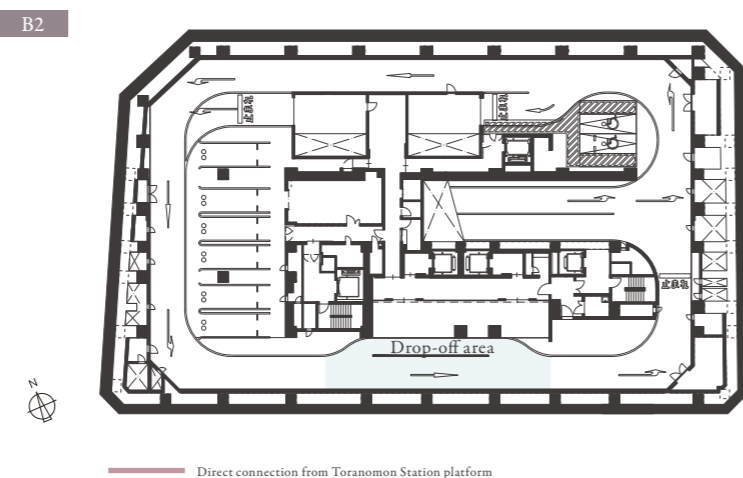
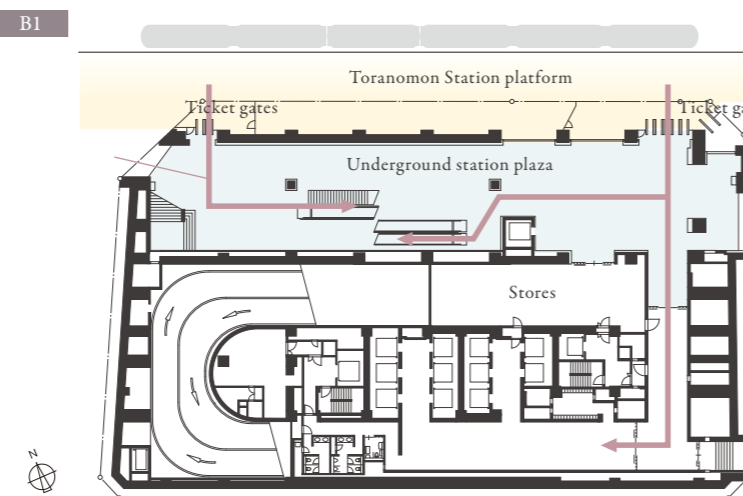
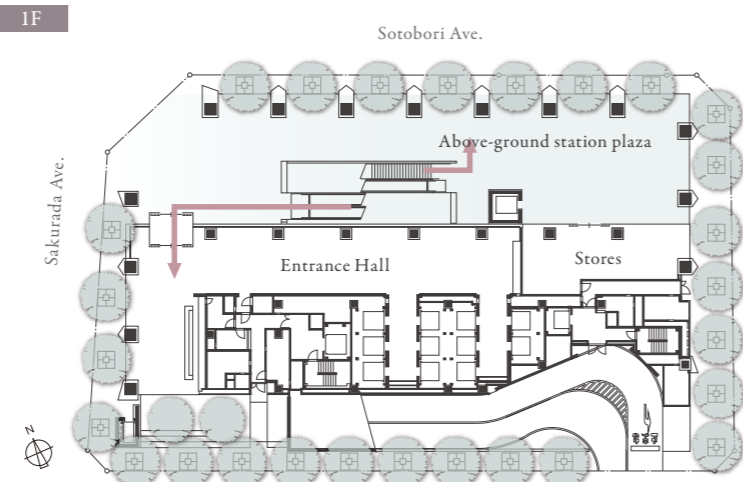
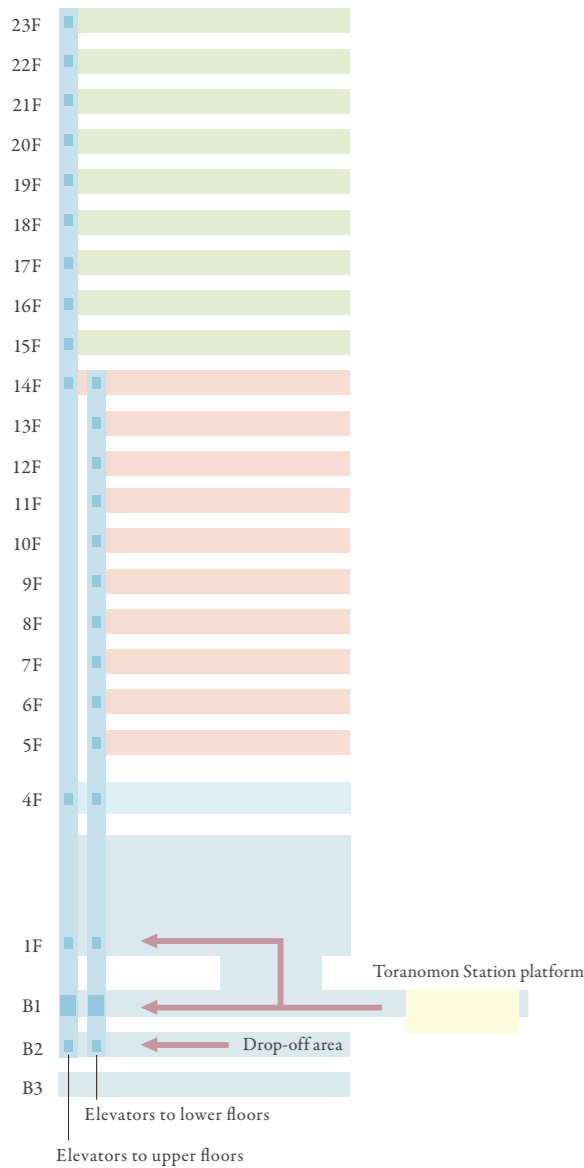
Temporary shelter area

The above-ground station plaza will be able to shelter up to around 800 people who cannot return home on the day a disaster occurs.

Designed with efficient routes to make daily life more comfortable and create a great first impression for visitors.

Passengers will be able to step straight off the Tokyo Metro Ginza Line Toranomon Station platform and into the elevator on the first basement floor. They can also take an escalator right to the entrance. The second basement floor will have a vehicle drop-off area near the elevator.

Cross-section



GOLD LEED certification



This project has obtained Provisional LEED-CS GOLD Certification, a certification given by the U.S. Green Building Council to environmentally-friendly buildings.

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Summary

Project Title	TOKYO TORANOMON GLOBAL SQUARE
Access	1 minute walk by direct passage from Toranomon Station on the Tokyo Metro Ginza Line (TBD) 4 minutes walk from Gate A12 of Kasumigaseki Station on the Tokyo Metro Hibiya Line, Marunouchi Line and Chiyoda Line 6 minutes walk from Gate A3 of Uchisaiwaicho Station on the Toei Mita Line
Address	Toranomon 1-chome 3 * 6, Minato Ward, Tokyo
Structure/floors	Steel-frame structure (partially steel-frame reinforced concrete structure) 24 above-ground floors, 3 underground levels
Quake-proof performance	Seismic damping structure
Site area	2,782.44m <sup>2</sup>
Total floor area	47,273.67m <sup>2</sup>
Power Supply System	Spot network with special 22kV high voltage
Parking spaces	88
Two-wheeler spaces	6(motorcycles) 45(30 visitor bicycles, 10 contracted bicycles, 5 bicycles shared by the Minato Ward government)
Standard floor area	1,349.67m <sup>2</sup>
Ceiling height	3.0m
Floor Load	500kg/m <sup>2</sup> (1,000kg/m <sup>2</sup> in some areas)
Type of underfloor wiring	OA floor(100mm)
Capacitance	60VA/m <sup>2</sup> (can be enhanced to up to 90VA/m <sup>2</sup> )
Air conditioning	Individual air conditioning
Elevators	11 standard elevators (5 for lower floors and 6 for upper floors), 2 freight and emergency elevators, 1 elevator to parking area.
Lighting	LED lighting
Use	Office space, stores, parking, etc.
Certified by the Minister for Land, Infrastructure, Transport and Tourism	Evaluated for structural and disaster-proof performance
Design and supervision	A joint design project between Nihon Sekkei and Mitsubishi Jisho Sekkei
Construction	A joint project between Takenaka and Nishimatsu
Completion	Scheduled for June 2020