

High-rise solutions – Design.  
Bringing form and function to life.



**Schindler**



# Vision.

## Your thoughts, our passion.

Schindler's high-rise track record is proof of our experience. You can count on our global network of high-rise experts which offers you – throughout the whole life-cycle of your building – an unprecedented level of service and quality. Our solutions are specified to suit every stage of the building:

### **Design**

Bringing form and function to life.

### **Install**

Pioneering new building methods.

### **Operate**

Optimizing the stream of people and goods.

### **Maintain**

Revolutionizing performance with intelligent engineering.

This refreshing perspective of 'Design' leads to a well-founded and carefully considered vision for your building.

Every true high-rise transportation design starts the same way: with listening, before we present or introduce ideas or solutions. Our philosophy is to listen to our clients.

In that way, we endeavor to make each of our customers' visions a reality by first understanding simple yet important objectives:

- The building type
- The role that the building plays in the city
- The status the structure will have in the global high-rise market

# Understanding the building types.

Understanding customer's needs is one of the main preconditions for creating the framework of building requirements. Schindler offers several different packages that perfectly match the diverse demands of specific building types.

## Office

Contrary to popular belief, office building's elevators operate at peak capacity during lunch hours rather than the morning rush. Office use is all about **efficiency** and **traffic management**. Efficiency in terms of both the energy saving nature of our solutions and the correct solutions to cope with the traffic flow in your building. PORT, our traffic management system is also key to secure, efficient and informed navigation of the building.

## Hotel

Hotels usually only operate with traffic peaks just before midday, usually in line with checkout times. Therefore there is not the same need for optimal traffic performance as other building types.

Modern, luxurious hotels inevitably have an emphasis on the style and comfort of their elevators and communal areas. When thinking of the most challenging customer requirements, **customization** of the solutions and the user **experience** are key.



### **Residential**

Overall, premium residential buildings operate with the least intense traffic of all building types. Elevator usage peaks in the mornings as people often leave for the day. For residential buildings, **people** are the key. Happy and content tenants are essential to your building's success. The styling and the **reliability** of the elevators enhance that great feeling of coming home after a long day to relax.

### **Mixed use**

Mixed use buildings present the biggest opportunity to create some truly intelligent and unique solutions. Depending on the types of occupancy in a mixed use building, the traffic requirements and package selection can vary. Our team of expert consultants will be with you from the beginning to consider which aspects will be essential in your building and to offer the most comprehensive solution.

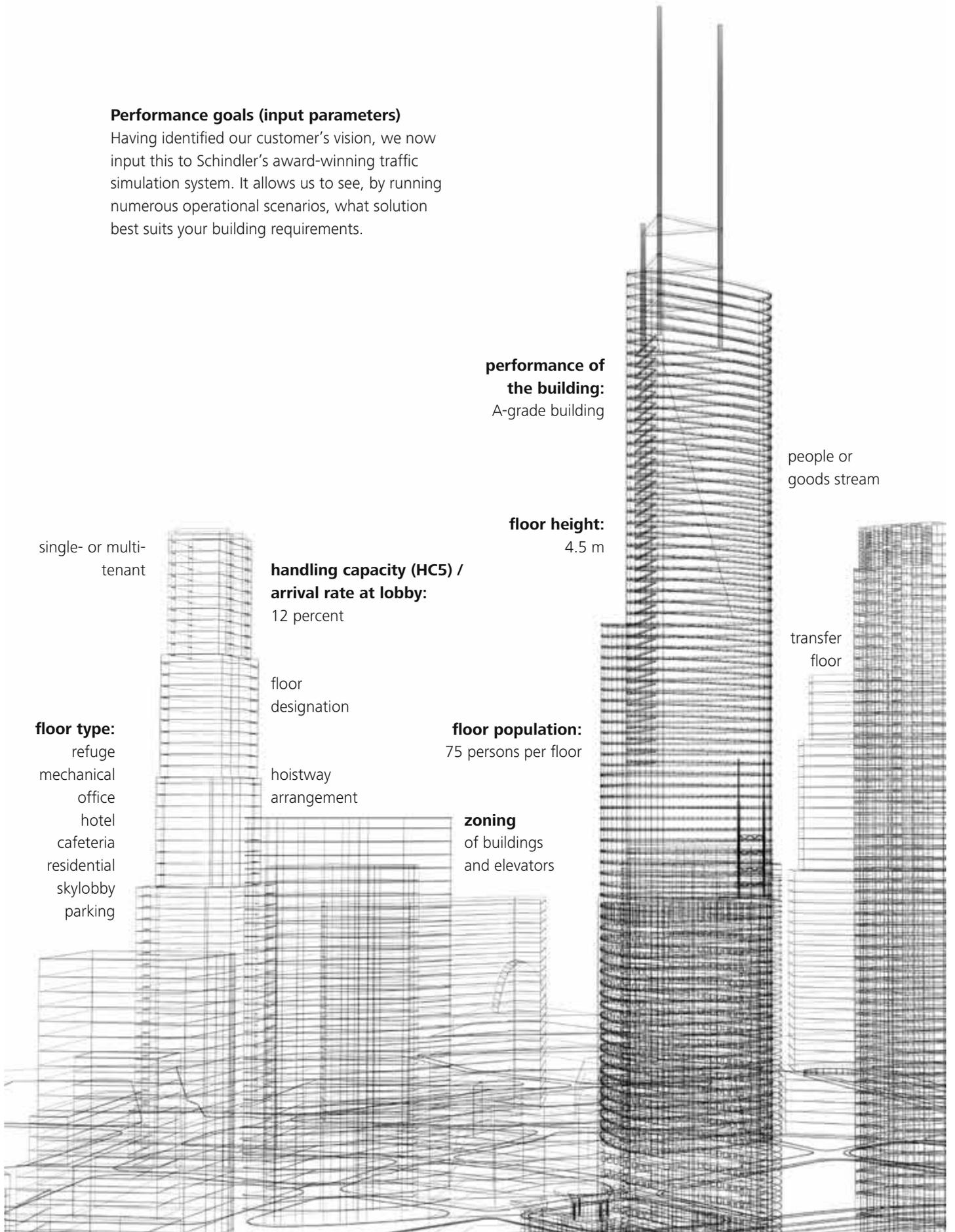


# Traffic simulation.

## Most advanced building planning.

### Performance goals (input parameters)

Having identified our customer's vision, we now input this to Schindler's award-winning traffic simulation system. It allows us to see, by running numerous operational scenarios, what solution best suits your building requirements.



**performance of the building:**  
A-grade building

people or goods stream

**floor height:**  
4.5 m

transfer floor

single- or multi-tenant

**handling capacity (HC5) / arrival rate at lobby:**  
12 percent

floor designation

**floor population:**  
75 persons per floor

**floor type:**  
refuge  
mechanical  
office  
hotel  
cafeteria  
residential  
skylobby  
parking

hoistway arrangement

**zoning**  
of buildings and elevators

### Proactive 360° planning

For well-founded, all-round planning of mixed-use buildings, the proven practical know-how of Schindler's specialists is indispensable.

Only through the intense collaboration of everyone involved can optimal solutions be found to the complex problems posed by today's tall buildings.

The goal is to integrate all the traffic-related zones of a building into a single transit management system.

Schindler's innovative Transit Intelligence System allows perfect coordination and seamless integration of all the important aspects of transporting people in a modern mega-skyscraper.

### Main results of the traffic simulation (performance result)



#### Number of elevators / zoning

The number and zoning of elevators, required for the desired building performance.

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#### Control type (conventional or PORT)

Depending on the needs of each building, we provide a state-of-the-art Transit Management with PORT Technology.

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#### Single-deck / double-deck

Which type of elevators best align with the traffic requirements of the building.

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#### Rated load and nominal speed

Optimized building layout to define the right capacity and to achieve the optimal flight-time.

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#### Individualization

Special access and services to VIP or barrier free elevators.

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#### Average waiting time

How long will the average waiting time for passengers be?

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#### Hoistway arrangement

Intelligent arrangement to improve traffic stream in key transit areas of the building.

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# It's your choice.

## Matching the right packages.

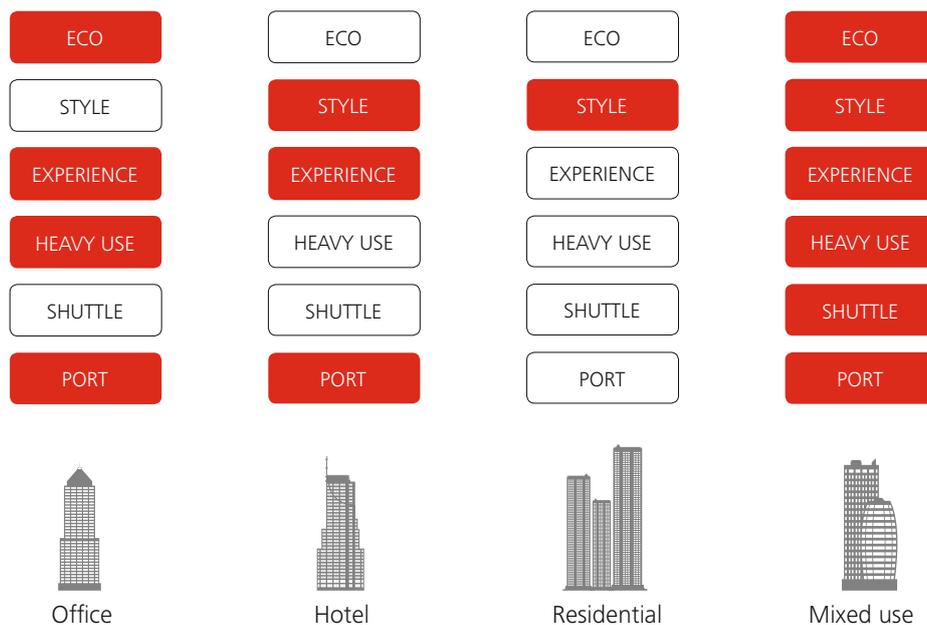
### The 6 innovative Schindler packages

The Schindler 7000 is an incredibly well engineered product in it's simplest modular form. We are now able to take this to the next level with six innovative packages designed to further enhance the performance and style of your elevators.

These six packages can be combined in any number of ways to give you the a tailored solution, specific to your building requirements. We know what is important to our customers and that's why we offer modularity in a simple clear way, aiding our customer's decision making.



Certain building types have a greater emphasis on specific requirements. This is why our specialists work with you from the very beginning so you can select the right packages for your building.





### ECO PACKAGE

The combination of **highly efficient components** and specific system configurations creates the ECO Package. Designed to minimize the energy consumption of your elevator system through **smarter elevator acceleration** and the replacement of traditional lighting with LEDs throughout the hoist ways and car interiors, this package reduces both the environmental impact of your building and the running costs.



### STYLE PACKAGE

Schindler 7000 Style package allows you, our customer, access to world-renowned designers and international design centers who will help you to create your vision. You can choose from our award-winning, **ready-to-install** collections, inspired by global architectural trends, or from the **piecework series**, consisting of high-quality components designed to complement and enhance your interior design project.



### EXPERIENCE PACKAGE

The Experience package is all about the individual's level of comfort when riding in the elevators. Created to offer the **smoothest and quietest ride** possible, the experience package can be broken down into two focal areas:

- Ride: Components, such as guide rails and roller guide shoes, have been redesigned to **increase the stability** of your elevators, minimizing shakes to create a superior ride quality.
- Noise: The combination of smaller components and specific **noise-cancelling configurations**, such as car insulation and sealing, create a calm and tranquil atmosphere inside your elevators.



### HEAVY USE PACKAGE

The Heavy Use package incorporates some of the more robust components, to create an **incredibly durable** and hard-working elevator. In buildings that **require frequent journeys** and almost constant movement, you need a system that can handle the traffic. Rigid system configurations and tougher door systems aim to ensure uptime and keep the people in your building moving.



### SHUTTLE PACKAGE

The Shuttle package is ideal for highly populated buildings that require shortcuts between **two key areas** of the building. Most of the time we see this service connecting the main lobby directly to an observation area or upper sky lobby. The **increased travel efficiency** makes handling high passenger volume quicker and simpler, while the more robust components ensure an optimal elevator performance.



### PORT PACKAGE

The PORT Package is a smart overlay to an already intelligent system. This software perfectly complements the elevator hardware to create a **perfect stream of people and goods** through the building. Advanced algorithms simulate individual journeys and aim to **minimize waiting and travel times**. PORT incorporates, travel, security access, guidance and visitor invitations into conveniently located terminals throughout the building or even into your own smartphone.

# Single and double-deck solutions. Ideal for any building needs.

## Single-deck

For many years, Schindler has been operating in the high-rise market with well-known, high-quality single-deck solutions. The proven technology is constantly being further developed and adapted to the increasing requirements.

And with the innovative double-deck solutions, another significant improvement step has been made: The pioneering double-deck elevators are now available as a standard option in the modular Schindler 7000 elevator system.

### Key specifications

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**Elevator type:** passenger/goods, single-deck

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**Travel height:** up to 500 m

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**Speed:** 2.5 - 10 m/s

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**Rated load:** 800 - 2000 kg

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\*All of the same packages that are available for the single, are also available on the double-deck.



## Double-deck

Double-deck elevators should never be a daunting prospect for your building. Double-deck solutions operate almost identically to single-deck, just at twice the capacity.

Schindler 7000 double-deck elevators have everything it takes to cope with the increasing complexity of building planning. Intelligent engineering and advanced Transit intelligence systems are key. Such sophisticated systems deliver major increases in efficiency, both in energy saving and handling capacity.

### Key specifications

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**Elevator type:** passenger, double-deck

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**Travel height:** up to 500 m

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**Speed:** 2.5 - 10 m/s

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**Rated load:** 2 x 1250 - 2000 kg

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\*All of the same packages that are available for the single, are also available on the double-deck.



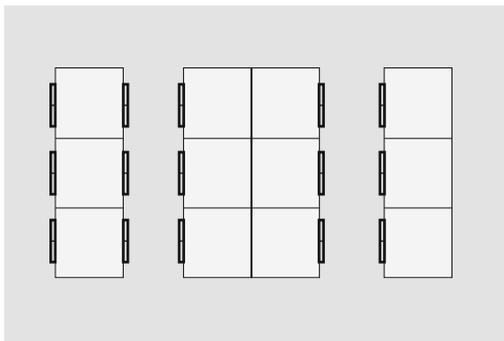
### Optimizing the space

Building planning with Schindler goes beyond the usual conversations of building sway and seismic activity. With Schindler, we consider how to optimise the space in your building without compromising on the traffic stream. Double-deck is the ideal solution for high occupancy buildings

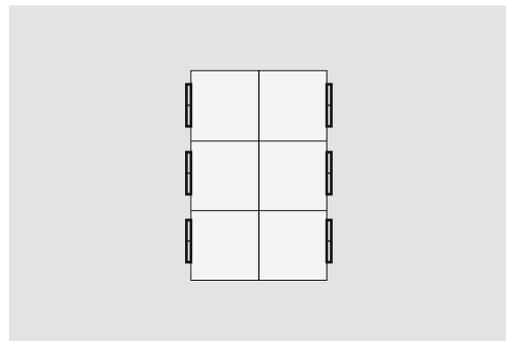
where space is increasingly finite. Schindler aim to maximise the rentable floor space by minimising the footprint of the elevators and hoistways:

- fewer hoistways required for more elevators
- optimal dimensions of hoistways
- intelligent hoistway arrangement to improve traffic stream

### Reducing the number of hoistways



Elevator core (single-deck).



Elevator core (double-deck). Increasing rentable space.

It is clear to see the amount of space that has now been created as a result of Double Deck solutions. Now imagine this space saving on all 50+ levels of the building and the potential investment returns.

### Customer Benefits



Double-deck elevators can **effectively double the traffic capacity** of your tall building. Coupled with Schindler's Transit Intelligence system, PORT, the stream of people and goods through your building will enjoy unparalleled efficiency and speed.



The increased elevator capacity combined with intelligent building layout and planning results in **shorter waiting times** and easier navigation of high-rise buildings.



By **reducing the number of hoistways**, optimizing the hoistway dimensions and effectively planning the elevator arrangement, Schindler can reduce the amount of space required for your vertical transportation system, **increasing the rentable space** in your building and the investment potential.

# The journey through the building.

## The first impression counts.

Upon entering the building, Schindler designation plates give passengers clear, concise, yet stylish signage to seamlessly guide them through the building.

When designing a building, passenger experience is one of the distinguishing features for each lobby.

Depending on the feeling that the building designers want to give to its occupants, Schindler's distinctive designation plates give the building a unique character which defines it within the local buildings landscape.

Once the passenger arrives at the elevator bank, the elevator-calling system must be easy to spot without being too obtrusive. For this purpose, Schindler has created numerous design options for landing operating panels as well as landing indicator panels. Should Schindler's award-winning PORT technology be chosen for the project, flag indicating panels can also be used to identify your assigned elevator.





# The journey continues.

## Exploring the building's character.

However, the passenger's visual journey does not end at the elevator-calling station. The choice of door frame variation also enables architects to be as imposing or discreet within the interior design as needed.

The flush transom allows architects to bring a sense of height to the elevator entrance. This entrance style is used generally in lobbies.

Box frames tend to be used throughout the building, giving a stronger sense of structure and frame to the elevator entrance. Schindler has experience with such designs in thousands of different buildings.





# The car interior.

## A space for creativity.

Once the passenger enters the car, the building experience is complete, however, the journey is not. Inside the car is where Schindler truly enables customers to express their own sense of style.

According to recent surveys, passengers rank elevator car interior design among the most important decision factors concerning overall building aesthetics.

No high-rise experience is complete without a state-of-the-art infotainment system, capable of displaying important and bespoke content to the elevator occupants. This pioneering software gives building operators the full flexibility of implementing their own designs or using Schindler infotainment templates already installed in some of the most advanced high-rise buildings in the world.





# Pioneering the future of building design.

Schindler's pioneering design tools give high-rise artists and engineers the full capacity to work on their project with market-leading technologies and new, innovative insights.

Next-generation buttons, new comfort sensors, and connection possibilities are just some of the features that we offer.





# Schindler 7000.

We pulse the skyline.

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