Planning Guide for Escalators and Moving Walks
The Best Solution Requires Step-By-Step Preparation
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## Key Points for the Planning Process (Checklist)
No invention has had more of an influence on shopping than the escalator. Over the past 100 years, the escalator has opened up a whole new world as a simple means of connecting different floors, a world we now move around in as a matter of course.

The escalator was the most radical element in this architectural change process, and even today it is still the most popular installation in our retail environment – even if it is the one least perceived by its users.

Escalators and moving walks still play a key role in transporting large numbers of people. Planning escalators and moving walks correctly in shopping centers, trade fair centers, stores, movie theaters, and public transportation facilities is essential for business success and the smooth flow of people. This brochure is your universal guide to all the main process stages, from project planning to commissioning.
Commercial Sector
Escalators and moving walks are used to increase customer density and thus help boost sales in buildings used for commercial purposes. The following examples taken from everyday practice clearly illustrate how and why:

Example 1: Department Store
A six-story department store in the center of a European capital had three elevator units operated by a single control system. The objective here was to boost sales on the upper floors by 20 percent by increasing customer flow.

At the planners’ recommendation, the owner opted to install escalators. As a result, customer flow was substantially increased and sales rose by more than 30 percent.

Example 2: Food Store
A retailer provided access to the upper floor of his store using two comfortable and attractively designed glass elevators. Moving walks had not been installed for space reasons. Even after the elevators had been in operation for some time, the scheduled sales figures on the upper floor were not achieved due to insufficient customer flow. Once moving walks were installed, sales increased several-fold.

Example 3: Underground Parking Garage
A centrally located department store with a food hall and a multi-story underground parking garage was unable to achieve its targeted turnover objectives in the food hall. Internal analyses showed that elevator access as a whole was insufficient. Using moving walks to provide access to all underground levels solved the problem as customers were able to get to their cars directly with their shopping carts. The sizable investment into the retrofit installation was justified by the increase in sales.

Why Escalators and Moving Walks Matter
Escalators can help increase sales on all shopping levels
Ordinary stairways limit customer frequency on the upper floors
Why Escalators and Moving Walks Matter

**Public Sector**
Transporting large numbers of people efficiently is the top priority in public transportation. Schindler offers customized solutions for this area of application. Our escalator experts can tell you all about the special configuration options.

**Escalators, Moving Walks, and Elevators**
In the commercial sector, escalators and moving walks as well as elevators ensure a smooth traffic flow. Our experts will suggest the right choice and combination to suit your specific requirements.

Advantages of escalators and moving walks:
- Escalators and moving walks with a moving step/pallet band look inviting
- Escalators and moving walks help channel passenger flow
- Escalators and moving walks have a high transportation capacity
- Escalators and moving walks are open and convey people continuously
- Escalators and moving walks ensure that all floors are frequented evenly
Positioning Escalators or Moving Walks Within a Building
Basically, to achieve optimal customer density, the movement of customers within the building has to be facilitated. Distances in excess of 50 meters should be avoided on commercial premises and in office buildings. The charts below show basic escalator arrangements.

Customer circulation on sales premises depends on different criteria, such as the layout of the goods on sale. Fast-selling goods are usually sold in areas that are farther away from escalators. We recommend working closely with specialized store fitters or planners.

Escalators or Moving Walks?
Moving walks should be provided as a matter of principle whenever shopping or baggage carts are to be transported.

How Many Escalators or Moving Walks?
To determine the transportation requirements (persons per hour), you need to consider the following parameters:

- Type of building (offices, shopping center, movie theater, subway station, airport; one-way traffic, two-way traffic; single- or multi-purpose building)
- Peak traffic times (office opening and closing hours)
- Population factor based on net usable area
- Customer turnover rate per floor in department stores
- Level of traveling comfort required on the unit (uncrowded, convenient, crowded)
Once the transportation requirements have been stipulated, you can determine the number of escalators or moving walks required. Our experts will be happy to advise you.

The theoretical transportation capacity depends on the width and speed of the escalators. The effective transportation capacity is between 40 and 80 percent of the theoretical transportation capacity depending on user density and step width. The capacity of moving walks is calculated accordingly, taking into account transportation of shopping and baggage carts.

**Arrangement of Escalators and Moving Walks**

**Single Unit**
The single unit is used to connect two levels. It is suitable for buildings with passenger traffic flowing mainly in one direction. Flexible adjustment to traffic flow (e.g., up in the morning and down in the evening) is possible.

**Continuous Arrangement (One-Way Traffic)**
This arrangement is used mainly in smaller department stores to link three sales levels. It requires more space than the interrupted arrangement.

### Basic Planning

<table>
<thead>
<tr>
<th>Step width</th>
<th>Theoretical transportation capacity</th>
<th>Effective transportation capacity at a rated speed of</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>v = 0.5 m/s uncrowded</td>
<td>v = 0.5 m/s convenient</td>
</tr>
<tr>
<td>600 mm</td>
<td>4500 pers./h</td>
<td>1800 pers./h</td>
</tr>
<tr>
<td>800 mm</td>
<td>6750 pers./h</td>
<td>2400 pers./h</td>
</tr>
<tr>
<td>1000 mm</td>
<td>9000 pers./h</td>
<td>3000 pers./h</td>
</tr>
</tbody>
</table>

Table according to EN 115-1 (other national regulations can be met)
Interrupted Arrangement (One-Way Traffic)
While relatively inconvenient for the user, for the owner of the department store it provides the advantage that due to the spatial separation of the upward and downward directions, customers have to walk past specially placed merchandise displays.

Parallel, Interrupted Arrangement (Two-Way Traffic)
This arrangement is used mainly in department stores and public transportation buildings with heavy traffic volumes. When there are three or more escalators or moving walks, it should be possible to reverse the direction of travel depending on the traffic flow.

Crisscross, Continuous Arrangement (Two-Way Traffic)
This type of installation is the one used most frequently as it allows customers to travel quickly to the upper floors without any waiting time. Depending on how the escalators are positioned, the store fitter can open up the view onto the shop floor to stimulate customer interest in the goods on display.
Proper Inclination

**Escalators**
Inclinations of 30° and 35° are the common international standard for escalators.

**30° Inclination**
This inclination provides the highest traveling comfort and maximum safety for the user.

**35° Inclination**
The 35° escalator is the most space-efficient solution. However, this inclination is perceived as too steep if rises exceed 6 m – particularly in downward travel. According to EN 115-1, a 35° inclination is not permissible for rises above 6 m.

**Moving Walks**
Inclinations of 10°, 11°, and 12° are the common international standard for inclined moving walks. Users find that a 10° inclination provides the most comfortable ride. A 12° inclination is used when space is limited.

Horizontal moving walks without transition curves can generally be provided for inclinations between 0° and 6°.
**Optimal Step/Pallet Widths**

**Escalators**
Escalators are available with step widths of 600, 800 and 1000 mm. The most popular step width is 1000 mm. This step width gives the user unimpeded access to the step band, even with baggage and shopping bags. The other two step widths are used mainly for less frequented units or where space is restricted.

**Moving Walks**
Moving walks are suitable for transporting shopping or baggage carts.

Inclined moving walks are available with pallet widths of 1000 mm and 1100 mm.

A moving walk width of 1100 mm is generally recommended as the pallets should always be at least 400 mm wider than the shopping carts when moving walks are operated with shopping carts.

Horizontal moving walks are available with a pallet width of 1000 mm, 1200 mm and 1400 mm. At airports, there is an increasing tendency to use 1200 or 1400 mm wide moving walks, since this width easily allows users to step around passengers with baggage carts.

If a number of escalators or moving walks are to be installed in a continuous arrangement in a building, the same step or pallet width should be selected for all units in order to avoid local congestion.
**Optimal Speed**

Speed not only has a considerable impact on the potential transportation capacity of escalators and moving walks, it also influences the space requirements. The tables below summarize the different product configurations depending on speed.

**0.5 m/s for Continuous Customer Flow**

This is the optimal speed for all escalators and moving walks in the commercial sector. The combination of sufficient transportation capacity, optimal safety, and minimum space requirement makes this speed the worldwide standard for this application.

<table>
<thead>
<tr>
<th>Rise</th>
<th>Speed</th>
<th>Maximum inclination</th>
<th>Horizontal step run (mm)</th>
<th>Radii of curvature (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H ≤ 6 m</td>
<td>≤ 0.5 m/s</td>
<td>≥ 35°</td>
<td>800</td>
<td>R ≥ 1</td>
</tr>
<tr>
<td></td>
<td>&gt; 0.5 ≤ 0.65 m/s</td>
<td>≥ 30°</td>
<td>1200</td>
<td>R ≥ 1.5</td>
</tr>
<tr>
<td></td>
<td>&gt; 0.65 ≤ 0.75 m/s</td>
<td>≥ 30°</td>
<td>1600</td>
<td>R ≥ 2.6</td>
</tr>
<tr>
<td>H &gt; 6 m</td>
<td>≤ 0.5 m/s</td>
<td>≥ 30°</td>
<td>1200</td>
<td>R ≥ 1</td>
</tr>
<tr>
<td></td>
<td>&gt; 0.5 ≤ 0.65 m/s</td>
<td>≥ 30°</td>
<td>1600</td>
<td>R ≥ 1.5</td>
</tr>
<tr>
<td></td>
<td>&gt; 0.65 ≤ 0.75 m/s</td>
<td>≥ 30°</td>
<td>1600</td>
<td>R ≥ 2.6</td>
</tr>
</tbody>
</table>

**Escalators:** Table according to EN 115-1 (other national regulations can be met)

<table>
<thead>
<tr>
<th>Rise</th>
<th>Speed</th>
<th>Inclination</th>
<th>Horizontal pallet run (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>not limited</td>
<td>≤ 0.75 m/s *</td>
<td>0°-6°</td>
<td>not required</td>
</tr>
<tr>
<td>by standards</td>
<td>&gt; 0.75 ≤ 0.9 m/s *</td>
<td>max. 12°</td>
<td>1600 at top and bottom, pallet width ≤ 1.1 m</td>
</tr>
<tr>
<td></td>
<td>≥ 0.5 m/s **</td>
<td>10°-12°</td>
<td></td>
</tr>
</tbody>
</table>

* v ≤ 0.65 m/s is recommended
** In the case of moving walk operation with shopping or baggage carts
0.6 or 0.65 m/s for
Intermittent Transportation Requirements
This speed is recommended for intermittent passenger arrivals, as at railway stations or subway stations. It has also proven effective at trade fair centers. Longer horizontal runs and larger transition curves are required at these speeds to guarantee optimal safety and loading factor of the escalator/moving walk.

0.75 m/s for
Extreme Transportation Capacity
Although speeds up to 0.75 m/s (escalators) and up to 0.9 m/s (moving walks) are possible, they are not recommended as the effective transportation capacity will not increase any further and there is an increased danger of children or elderly people tripping or falling in the landing areas.

Transportation capacity c (persons/h)
as a function of speed

\[ c = \text{theoretical transportation capacity (persons/h)} \]
for a nominal width of 1000 mm

\[ \begin{align*}
0.45 & \quad 0.50 & \quad 0.55 & \quad 0.60 & \quad 0.65 & \quad 0.70 & \quad 0.75 & \quad 0.80 & \quad 0.85 \\
\text{c} & \quad \text{c}_{\text{th}} & \quad \text{c}_{\text{max}} & \quad \text{c}_{\text{eff}} \\
\begin{array}{cccccccc}
0.50 & 0.55 & 0.65 & 0.75 & 0.85
\end{array}
\end{align*} \]

\[ \begin{array}{cccccccc}
5.00 & 6.00 & 7.00 & 8.00 & 9.00 & 10.00 & 11.00 & 12.00 & 13.00 & 14.00
\end{array} \]

\[ \begin{array}{cccccccc}
0.45 & 0.50 & 0.55 & 0.60 & 0.65 & 0.70 & 0.75 & 0.80 & 0.85
\end{array} \]
Detailed Planning

**Standards**
The European EN 115-1 standard defines the safe structural design and safe installation of escalators and moving walks in buildings. The planning instructions in this brochure refer to these regulations.

The standard-compliant inclination and speed have already been discussed under Proper Inclination and Optimal Speed.

**Transportation of Disabled Persons, Transportation of Baby Carriages**
Escalators and moving walks are not suitable for transporting wheelchairs and baby carriages. It is recommended to post a sign in the access area of escalators and moving walks indicating where the nearest elevators are located.

**Space Requirement**

**Step/Pallet Run**
The correct number of horizontal steps/pallets in the landing areas (i.e., the step/pallet run) of escalators and inclined moving walks according to EN 115-1 depends on the rise, the inclination, and the rated speed. The standard-compliant step/pallet run is indicated in the two tables under Optimal Speed on page 12.
Free Space
To ensure safe use of the escalators and moving walks, a sufficient amount of free space must be provided at the upper and lower landings (see figure below for minimum dimensions according to EN 115-1).

Fixed stairs are forbidden in the unrestricted area. This area must be flat. A maximum inclination of 6° is permissible. For space after the period the value of Ca, please refer to the dimension sheets at the end of this brochure.

For moving walks that are expected to have a high traffic volume and that are also designed for transporting shopping and baggage carts, the free spaces should have a length of at least 5 m. Passenger guide bars, as shown in the picture below, need to be installed outside the free space, otherwise special regulations according to EN 115-4 have to be applied.

Safety, Regulation-Compliant

Balustrade Height
Balustrades are available in heights of 900, 1000 and 1100 mm. The advantage of 900 mm balustrades is that even small children can easily reach the handrail. For greater fall heights we recommend balustrades with a continuous height of 1000 mm. A balustrade height of 1100 mm is also available if required under national regulations.

Overhead Clearance
The free overhead clearance at every point along the step/pallet band must be at least 2.3 m.

Safety Clearances
The horizontal clearance from the outer edge of the handrail to the walls or other obstacles must always be at least 80 mm. This clearance must be maintained up to a height of at least 2.1 m above the step/pallet band. With vertical walls, all Schindler escalators and moving walks provide the specified safety clearance of 80 mm.
Detailed Planning

**Ceiling Deflectors, Wedging Guards**
With escalators and moving walks arranged in a crisscross pattern or with floor openings, there is a risk of wedging between balustrades and adjacent escalator/moving walks or ceilings and columns. If the distance between the outer edge of the handrail and the obstacle is less than 400 mm, wedging guards or ceiling deflectors are to be provided.

Deflectors must be rigidly mounted in order to meet all requirements. A pendulously mounted deflector can be used in addition to the mandatory rigidly mounted deflector.

**Protective Barriers**
Appropriate structural measures must be installed to prevent people from accessing escalators or moving walks from the side. Protective barriers and guards should be provided on the balustrades where necessary.

Protective barriers, guards against climbing the balustrades, ceiling deflectors, and wedging guards can also be supplied by Schindler as an option.
**Railings Provided by the Customer**

Railings are to be fitted by the customer at the accesses to the escalators and moving walks. The distance to the handrail of the escalator/moving walk must be at least 80 mm. It is recommended that the support for the escalator/moving walk be at least 1000 mm away from the ceiling edge, so that the balustrade does not have to be extended.
Operating Modes and Energy Efficiency
The operating mode of the escalators/moving walks can be adapted to the application. There are essentially three operating modes:

- continuous operation
- stop & go operation
- continuous operation with crawling

Schindler escalators and moving walks offer optimized energy-saving packages for all three operating modes.

ECO
Continuous operation is the optimal mode for the commercial sector in which customers are to be transported efficiently to the upper floors of the store.

ECO Plus
Stop & go operation is recommended for the intermittent arrival of passengers or for sporadic use outside peak times. Typical applications include movie theaters and airports. When there are no passengers, the unit remains ready for operation as signaled by a direction indicator. The Schindler entrance monitoring system detects approaching passengers and sets the escalator/moving walk into motion whenever required.

ECO Premium
In continuous operation with crawling, the escalator/moving walk continues to crawl at 0.1 m/s in the absence of passengers, using a frequency converter. Mechanical wear is considerably lower than in conventional stop & go operation, and in this operating mode the readiness for operation and the direction of travel are indicated by the slowly moving steps.

ECO Premium Plus
As the top of the range, the ECO Premium Plus package offers the highest energy-saving potential. It combines the energy-saving functions of the ECO Plus and the ECO Premium packages and features stop & go operation together with stand-by speed operation. For top energy efficiency, high-efficiency drives and motors must be specified.
Special Applications

Outdoor Installation
Special measures are required for escalators and moving walks that are installed outdoors and are therefore subject to the effects of weather conditions. These measures are necessary to achieve optimal unit availability and the longest possible service life for the components. For more detailed information, please contact our experts.

Extreme Locations
For applications that require sturdiness and safety under extreme transportation conditions, we recommend our balustrade design I. This inclined balustrade, which is made of 12 mm thick, shock-resistant stainless-steel sandwich panels, provides optimal operation in ski resorts, outdoor applications or in regions susceptible to vandalism.

Moving Walk Operation
With Shopping Carts
Only suitably designed shopping carts (in accordance with EN 1929-2 and EN 1929-4) and baggage carts may be used on moving walks. Access to the moving walk entrance must be blocked for non-specified carts.

The width of each shopping or baggage cart and its contents must be at least 400 mm less than the nominal pallet width, since passengers must be able to walk past any cart on the moving walk. For moving walks with an inclination greater than 6°, the rated speed must be limited to 0.5 m/s. Shopping or baggage carts must conform to the moving walk design:
- The design must ensure safe and correct loading.
- The maximum weight must not exceed 160 kg when loaded.
- A braking or blocking system must be fitted to enable automatic locking on the inclined section of moving walks.
- The carts must be equipped with deflectors (bumpers) to reduce the risk of getting stuck.
- To ensure safe exit from the moving walk, the blocking system of the rear rollers of shopping or baggage carts must lock onto the pallet in order to push the front rollers over the combs. The front rollers and/or blocking system must release easily from the pallet.
- Deflectors and guiding devices must be provided in the surrounding area to ensure correct alignment when entering the moving walk.
- Safety signs about safe and correct use of shopping or baggage carts must be posted.
**Detailed Planning**

**Escalator Operation**

**With Shopping or Baggage Carts**

For safety reasons, the transportation of shopping and baggage carts on escalators is not allowed. If they must be transported, moving walks must be installed.

If it is reasonably foreseeable that trolleys will be taken onto an escalator, then suitable barriers acc. EN 115-4 must be installed to prevent this occurrence.

Additional stops for emergency situations at the exit, with a distance between 2.0 m and 3.0 m before the comb intersection line, must be provided.
Schindler escalators and moving walks are ideally designed for use in all the relevant application segments. The modular structure of Schindler escalators and moving walks means that the components required can be adapted to each application while retaining the same outer design.

The following table provides an overview of the product types and their main application segments.

<table>
<thead>
<tr>
<th>Escalators</th>
<th>Moving walks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schindler 9300AE</td>
<td>Schindler 9700</td>
</tr>
<tr>
<td>Type 10</td>
<td>Type 20/30</td>
</tr>
<tr>
<td></td>
<td>Inclined moving walk</td>
</tr>
<tr>
<td></td>
<td>Horizontal moving walk</td>
</tr>
<tr>
<td>Shopping center</td>
<td>X</td>
</tr>
<tr>
<td>Store</td>
<td>X</td>
</tr>
<tr>
<td>DIY store, supermarket</td>
<td>X</td>
</tr>
<tr>
<td>Hotel, office building</td>
<td>X</td>
</tr>
<tr>
<td>Movie theater</td>
<td>X</td>
</tr>
<tr>
<td>Museum</td>
<td>X</td>
</tr>
<tr>
<td>Library</td>
<td>X</td>
</tr>
<tr>
<td>Trade fair center</td>
<td>X</td>
</tr>
<tr>
<td>Airport</td>
<td>X</td>
</tr>
<tr>
<td>Railway/subway station</td>
<td>X</td>
</tr>
</tbody>
</table>
The Best Product for Your Premises

**Schindler 9300AE**
With its individual configuration packages, the Schindler 9300AE offers a process-optimized solution to your requirements.

The Schindler 9300AE-10 escalator comprises the variants and option packages most often specified for escalators in department stores and the retail sector.

The Schindler 9300AE-20 escalator also fulfills the special requirements and specifications of the public transportation sector. The technical equipment featured by this range of products complies with all the requirements in this segment, combined with an outstanding aesthetic design.

**Schindler 9700**
This sturdy product line is ideal for large rises and the special extreme duty requirements of public transportation. Our experts will be happy to advise you.

**Schindler 9500AE**
Schindler offers the world’s most complete range of products in the global moving walk market. Inclined moving walks with widths of up to 1100 mm are designed to be used with shopping carts. With widths of up to 1400 mm, horizontal moving walks perfectly cover the public transportation requirements at airports, trade fair centers or other facilities.
Optimal planning and preparation of on-site transportation and the moving of the escalator/moving walk into the building are essential for ensuring the best possible installation sequence and thereby minimizing building costs. Escalators/moving walks are entirely preassembled at the factory. This is why planning on-site transportation of the escalators/moving walks, which can be up to 17 m long and weigh up to 100 kN, is such a key step in the planning process.

Planning is based on the technical specifications in our dimension sheets or on the layout drawing specific to the project.

As a matter of principle, we recommend that you coordinate the date and time as well as how the escalator/moving walk will be moved into the building and the access route with our experts PLENTY OF TIME IN ADVANCE.

The key points involved in this process are summarized below.

**Moving the Escalator or Moving Walk Into the Building**
A suitable area for unloading the escalator/moving walk from the truck has to be provided in front of the building. The access routes to the building and the installation site must be level and accessible with roller dollies.

Essentially, there are two possibilities for moving the escalator/moving walk into the building:

- Through ground-floor openings in the building using special forklift trucks
- Through appropriate side openings in the building or roof using an on-site or mobile crane
Services Provided by the Customer, Site Preparations

Transportation to the Installation Site

The clearance over the entire access route must not be less than the minimum dimension stipulated in the dimension sheet/layout drawing. (Don’t forget suspended pipes or lines.)

The type of delivery has to be stipulated at the time of the release for production. After that date the escalators/moving walks can no longer be designed in several parts.

The required entrance width depends on the width of the escalator/moving walk. Given the length of the escalator/moving walk, make sure all curves and bends can be negotiated easily. We recommend that you plot out the entire transportation route on a CAD plan or paper model.

The entire transportation route must be level and free of obstacles, and be able to withstand particular floor loads. If not, the appropriate load distribution has to be provided. Our experts can advise you.
**Delivery Modes**
The escalator/moving walk is usually ordered fully assembled, in one part.

If there is insufficient clearance, the escalator/moving walk can be supplied with the balustrades not mounted.

In the case of long escalators/moving walks or restricted space conditions, the escalator/moving walk can be delivered in two or more parts. However, due to the increased transportation and assembly costs this form of delivery should be used only where unavoidable.

**Recess Clearances, Floor Openings, Supports**
Please refer to our dimension sheets and the project-specific layout drawing for all the necessary recess clearances, floor openings and supports.

**Suspension Points to Be Provided by the Customer**
Suspension points for pulley blocks for the proper movement and placement of the escalator/moving walk are to be provided by the customer. The suspension points must be positioned along the symmetry axis of the escalator/moving walk above the end supports and — where applicable — the intermediate supports. The exact position is indicated on our layout drawings. The suspension points must be rated for a load of 50 kN.
Services Provided by the Customer, Site Preparations

Connections to Other Installations

Electrical Connections
The electrical connection is generally made at the upper escalator/moving walk station as shown in the figure. The number and minimum cross-section of the connecting cables are specified in our layout drawing. The supply connection is to be provided by the customer through an authorized electrician.

Sprinklers
If required by the customer, sprinkler tubing can optionally be fitted to the escalator/moving walk. The installation of the sprinkler heads and the connection of the sprinkler tubing are to be provided by the customer through an authorized specialist.

Fire Control System
The applicable national regulations for commissioning fire control systems must be observed.

Oil Separator
An oil separator has to be fitted when installing escalators/moving walks outdoors. If the oil separator is supplied by Schindler (optional), the customer must provide a recess in the escalator/moving walk pit and a water drain.
From Production Release to Final Installation

Once the detailed planning is completed, you will receive from us a project planning sheet or a layout drawing based on your indications and containing all the relevant information such as escalator/moving walk geometry, support loads, and key electrical data. You can also draw up this plan yourself using SchindlerDraw at www.schindler.com.

**Production Release**

Next, you give the go-ahead for the production of the escalator/moving walk by signing the valid project planning sheet or the layout drawing and returning it to us. Check once again that the main dimensions of the escalator/moving walk correspond with the dimensions of your building structure. Our installation team will be happy to coordinate the access route as well as the moving and placement logistics with you once again.

**Site Preparation Inspection**

Before your escalator/moving walk is delivered, our installation team examines on site the supports and the installation dimensions. Acceptance of the preparations to be made by the customer, i.e., electrical connections, transportation routes, etc., is also carried out with the site management.

**Transportation From Factory to Site**

Depending on the delivery mode, the escalators/moving walks are delivered by truck (or in a container for deliveries overseas). Given the possible excess lengths and heights, official approvals may be necessary for the transportation to the site.
Moving the Escalator/Moving Walk Into the Building
Moving the escalator/moving walk into the building up to the supports is a critical process that requires meticulous preparations (see Services Provided by the Customer, Site Preparations).

Once the escalator/moving walk has been unloaded by crane or forklift truck, the escalator/moving walk is placed on roller dollies and towed by forklift truck. To minimize the on-site transportation logistics, it is extremely important to keep the transportation route as short and as straight as possible.

Setting Down Onto the End Supports
Usually, suspension points in the form of ceiling plates or ceiling openings with a diameter of 50 mm are prepared by the customer in accordance with the indications on the layout drawing to secure the hoisting gear. These points are used to hoist the escalators/moving walks and set them down onto the supports. Each suspension point must have a load-bearing capacity of at least 50 kN.

If no suspension points are provided by the customer, installation scaffolds are used. This installation method takes longer and involves more materials.

If the roof or ceiling opening is sufficiently large, a crane can be used to set the escalator/moving walk down onto its end supports from above.

Because a certain amount of time will probably elapse between the placing of the escalator/moving walk and its commissioning, the unit should be adequately protected against dirt and damage due to building work.
The covering fitted by Schindler should be removed only during commissioning. The escalator is not to be used as a fixed stairway during the construction phase (increased risk of dirt, soiling, and damage).

Any dirt that cannot be removed can affect the service life of mechanical and electrical components.

**Final Installation, Commissioning**

Upon completion of installation, the escalator/moving walk is thoroughly checked once more during a test run. At the handover, you will be given the customer documentation and the keys for the unit.

In some countries, acceptance by an authorized verification body is necessary prior to commissioning. Commissioning can then proceed as usual.

Please note that the unit has to be kept in a safe operating state by an authorized maintenance organization. We at Schindler are at your disposal around the clock for such services.
Interactive Configuration With SchindlerDraw

For project-specific configurations we recommend SchindlerDraw, the interactive online configuration tool available at www.schindler.com.

With SchindlerDraw, you can create and download project-specific *.dxf and *.dwg files as well as neutral specification texts to suit the data you have. The projects remain stored in your personal project center, where they can also be processed at a later stage.
Key Points for the Planning Process

Checklist

Approval of the Layout Drawing
- Pit dimensions
- Rise
- Support distance and dimensions
- Electrical feed lines
- Sprinkler connections, if necessary
- Phone connection for remote monitoring
- Water drain for outdoor installation

Services to Be Provided by the Customer
- Masonry, scaffolding, and cutting work
- Structural supports for the escalator or moving walk supports
- Protective railings for the upper floor opening, if necessary
- Power supply to the escalator or moving walk main switch
- Phone line for remote monitoring
- Erection of scaffolding and barriers, provision of openings, removal of doors and portals (if necessary to bring the unit inside the building)
- Covering of finished floor with planking and, if necessary, support of floors for transportation and suspension of the unit in the building
- Any incurred acceptance and testing fees
- Satisfactory covering of the unit to protect against damage and dirt until commissioning
- Erection of barriers to protect against unauthorized access to the unit (e.g., site barriers, warning signs)
- Protective barriers, ceiling deflectors, wedging guards (optionally supplied by Schindler)
- Cleaning of the unit to remove dirt accumulated during construction, if necessary
- Water drain, oil separators as per building codes

And remember, if you have any questions, our experts are always available to help you.

Disclaimer
The specifications, options, and colors mentioned in this brochure are indicative only and are subject to change without notice. They are not intended to, and do not, constitute an offer on the part of the Schindler Group.
Schindler 9300AE
Type 10 • 30°-K

Rise: max. 6 m at a step width of 1000 mm
Balustrade: design E
Balustrade height: 900/1000 mm

Inclination: 30°
Step width: 600/800/1000 mm
Step run: 2 horizontal steps

All dimensions in mm.
Observe national regulations!
Subject to change.
The stated loads are characteristic values according to EN 1990.

Observe national regulations!

<table>
<thead>
<tr>
<th>Step width (mm)</th>
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</thead>
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Transportation dimensions

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<td>Support loads R2 (kN)</td>
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<td>2740</td>
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<td>10860</td>
<td>10860</td>
</tr>
<tr>
<td>Entire support surface smooth and level</td>
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<tr>
<td>Inlet for lighting and power circuits centered at upper end, through front face</td>
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Detail Z

Gaps at joints to be filled with joint filler (by customer)

Entire support surface smooth and level

Inlet for lighting and power circuits centered at upper end, through front face
Schindler 9300AE
Type 10 · 30°-M

Rise: max. 8 m at a step width of 1000 mm
Balustrade: design E
Balustrade height: 900/1000 mm

Inclination: 30°
Step width: 600/800/1000 mm
Step run: 3 horizontal steps

1) If L > L_{max.}, an intermediate support may be required; please consult Schindler.
2) Delivery in 2 parts.

All dimensions in mm.
Observe national regulations!
Subject to change.
The stated loads are characteristic values according to EN 1990.

Step width (mm) | 600 | 800 | 1000
---|---|---|---
A: Step width | 600 | 800 | 1000
B: Width between handrails | 758 | 958 | 1158
C: Handrail center distance | 838 | 1038 | 1238
D: Width of escalator | 1140 | 1340 | 1540
E: Width of pit | 1200 | 1400 | 1600
L_{max.}: Limiting span length | 19300 | 17600 | 16200
H_{max.}: Maximum rise | 12000 | 9300 | 8000
C: Distance between outer faces of handrails | 918 | 1118 | 1318

Transportation dimensions

Water drain for outdoor installation

Gaps at joints to be filled with joint filler (by customer)

Entire support surface smooth and level

Inlet for lighting and power circuits centered at upper end, through front face

<table>
<thead>
<tr>
<th>Step width</th>
<th>Rise H mm</th>
<th>Weight kN</th>
<th>Support loads R1 kN</th>
<th>R2 kN</th>
<th>Transp. dimensions h mm</th>
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| 600 | 3000 | 58 | 48 | 42 | 2850 11610
| | 3500 | 61 | 51 | 45 | 2880 12590
| | 4000 | 65 | 54 | 48 | 2910 13580
| | 4500 | 68 | 57 | 51 | 2930 14570
| | 5000 | 72 | 60 | 54 | 2950 15570
| | 5500 | 75 | 63 | 57 | 2970 16560
| | 6000 | 78 | 66 | 60 | 2990 17550
| 800 | 3000 | 61 | 55 | 49 | 2850 11610
| | 3500 | 65 | 58 | 53 | 2880 12590
| | 4000 | 68 | 62 | 56 | 2910 13580
| | 4500 | 72 | 65 | 60 | 2930 14570
| | 5000 | 76 | 69 | 63 | 2950 15570
| | 5500 | 82 | 74 | 68 | 2970 16560
| | 6000 | 86 | 78 | 72 | 2990 17550
| 1000 | 3000 | 63 | 62 | 56 | 2850 11610
| | 3500 | 69 | 66 | 61 | 2880 12590
| | 4000 | 73 | 70 | 65 | 2910 13580
| | 4500 | 79 | 74 | 70 | 2930 14570
| | 5000 | 83 | 80 | 74 | 2950 15570
| | 5500 | 89 | 87 | 79 | 2970 16560
| | 6000 | 94 | 91 | 83 | 2990 17550
**Schindler 9300AE**  
**Type 10 · 35°-K**

<table>
<thead>
<tr>
<th>Rise</th>
<th>max. 6 m at a step width of 1000 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balustrade</td>
<td>design E</td>
</tr>
<tr>
<td>Balustrade height</td>
<td>900/1000 mm</td>
</tr>
</tbody>
</table>

**Inclination:** 35°  
**Step width:** 600/800/1000 mm  
**Step run:** 2 horizontal steps

All dimensions in mm.  
Observe national regulations!  
Subject to change.  
The stated loads are characteristic values according to EN 1990.

**Transportation dimensions**

Detail **Z**  
Gaps at joints to be filled with joint filler (by customer)  
Entire support surface smooth and level  
Inlet for lighting and power circuits centered at upper end, through front face

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**Water drain for outdoor installation**

**Suspension point centered above escalator axis!**

All dimensions in mm.  
Observe national regulations!  
Subject to change.  
The stated loads are characteristic values according to EN 1990.

**Power supply**

**Step width (mm)**

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**Power supply**
**Schindler 9300AE**

**Type 20 · 30°-M**

**Rise:** max. 13 m at a step width of 1000 mm  
**Balustrade:** design E  
**Balustrade height:** 900/1000 mm  

**Inclination:** 30°  
**Step width:** 600/800/1000 mm  
**Step run:** 3 horizontal steps

---

### Step width (mm)

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<th>1000</th>
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<td>918</td>
<td>1118</td>
<td>1318</td>
</tr>
</tbody>
</table>

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### Transportation dimensions

| CA: Distance between outer faces of handrails | 918 | 1118 | 1318 |

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### Detail Z

- **Gaps at points to be filled with joint filler (by customer)**
- **Entire support surface smooth and level**
- **Inlet for lighting and power circuits centered at upper end, through front face**

---

### Support loads

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<th>Weight</th>
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<td>81</td>
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</tbody>
</table>

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All dimensions in mm.  
Observe national regulations!  
Subject to change.  
The stated loads are characteristic values according to EN 1990.

1) If L > L<sub>max.</sub>, an intermediate support may be required.  
Please consult Schindler.  
2) With a double drive, the truss must be extended by 417 mm.  
3) With a balustrade height of 900 mm, h is reduced by 70 mm.  
4) Delivery in min. 2 parts.  
5) Delivery in at least 3 parts.
### Planning Guide for Escalators and Moving Walks

**Schindler 9500AE Type 10**

**Rise:** max. 7.5 m at a pallet width of 1000 mm  
**Balustrade:** design E  
**Balustrade height:** 900/1000 mm

### Inclination: 10°/11°/12°  
**Pallet width:** 800/1000/1100 mm  
**Horizontal pallet run:** 400 mm

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<thead>
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<th>Inclination</th>
<th>Rise</th>
<th>Length</th>
<th>Fixup dimension in one part</th>
<th>Pallet width A = 800</th>
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<th>Pallet width A = 1100</th>
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<th>Pallet width A = 1100</th>
</tr>
</thead>
<tbody>
<tr>
<td>12°</td>
<td>H</td>
<td>L</td>
<td></td>
<td>G</td>
<td>Supp. loads (kN)</td>
<td>G</td>
</tr>
<tr>
<td>1000</td>
<td>1085</td>
<td>2150</td>
<td></td>
<td>70</td>
<td>88</td>
<td>56</td>
</tr>
<tr>
<td>2000</td>
<td>2216</td>
<td>3946</td>
<td></td>
<td>92</td>
<td>111</td>
<td>74</td>
</tr>
<tr>
<td>3000</td>
<td>3256</td>
<td>4700</td>
<td></td>
<td>113</td>
<td>134</td>
<td>94</td>
</tr>
</tbody>
</table>

1) Calculated on the basis of a deflection of L / 750. If L > Lmax, an intermediate support may be required; please consult Schindler.  
2) Intermediate support (R3) at a distance of L / 2.  
3) With a double drive, the truss must be extended by 417 mm.  
4) Dimensions for balustrade height of 1,000 mm.  
5) Free spaces, overhead clearance, safety clearance; ceiling deflectors, wedging guards, and protective barriers according to national regulations (optional supply by Schindler).

**All dimensions in mm.**  
Observe national regulations!  
Subject to change.

**INT = intermediate support(s)**

The stated loads are characteristic values according to EN 1990.

### Transportation dimensions

<table>
<thead>
<tr>
<th>Pallet width</th>
<th>800</th>
<th>1000</th>
<th>1100</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 INT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10°: H1</td>
<td>Lu x 0.1163</td>
<td>- 1161</td>
<td></td>
</tr>
<tr>
<td>11°: H1</td>
<td>Lu x 0.1444</td>
<td>- 1177</td>
<td></td>
</tr>
<tr>
<td>12°: H1</td>
<td>Lu x 0.2126</td>
<td>- 1192</td>
<td></td>
</tr>
<tr>
<td>10°: H2</td>
<td>H1 x Lu x 0.1163</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11°: H2</td>
<td>H1 x Lu x 0.1444</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12°: H2</td>
<td>H1 x Lu x 0.2126</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Figures:**

- **Detail Z:** Gaps at joints to be filled with joint filler (by customer)  
- **Entire support surface smooth and level**  
- **Inlet for lighting and power circuits centered at upper end, through front face**  

### Schindler 9500 Advanced Edition Type 10
1) For outdoor installations a water drain shall be provided over the entire length of the concrete pit by customer.

2) The support loads T1 and D1 are equally distributed over the width of the moving walk, whereas the support loads T2, D2, M1, M3 etc. are equally distributed among the supports on the left and right side.

For outdoor installations, feasibility must be checked by the supplying factory on the basis of climatic conditions.

For parallel installation the drive stations must be mounted always on the same end.

All dimensions in mm.

All loads in KN.

Observe national regulations!

Subject to change.

Please consult Schindler.
Balustrade: design I/P
Balustrade height: 1000 mm
Truss: standard

Inclination: 30°
Step width: 800 / 1000 mm
Step run: 2, 3, 4 horizontal steps

Speed
\[ v = 0.5 - 0.65 \text{ m/s} \]
Nominal rise according to EN 115 with \( A = 1000 \text{ mm} \)
Size S: max. 13 m

All dimensions in mm. Observe national regulations!
Subject to changes.

The specified dimensions are minimum dimensions; according to the configuration, larger dimensions might apply.

Step width

<table>
<thead>
<tr>
<th>Step run</th>
<th>K</th>
<th>M</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>2239</td>
<td>2639</td>
<td>3039</td>
</tr>
<tr>
<td>L2</td>
<td>2362</td>
<td>2762</td>
<td>3162</td>
</tr>
<tr>
<td>L3</td>
<td>4570</td>
<td>4970</td>
<td>5370</td>
</tr>
<tr>
<td>L4</td>
<td>3076</td>
<td>3476</td>
<td>3876</td>
</tr>
<tr>
<td>L5</td>
<td>2738</td>
<td>3138</td>
<td>3538</td>
</tr>
</tbody>
</table>

Please contact Schindler for support loads, motor ratings, transportation dimensions, and weights. Please contact Schindler for dimensions relating to truss extensions, double drives, frequency converters, and lighting installations.

Please request detailed drawings Z, X and Y for expansion joints, seismic specifications and wind loads respectively from Schindler. Please contact the supplying factory for availability and delivery dates.
Schindler 9700AE
Type 3S · 30°-M, L  Truss height 1104

Balustrade: design I / P
Balustrade height: 1000 mm
Truss: standard

Inclination: 30°
Step width: 800 / 1000 mm
Step run: 3, 4 horizontal steps

The specified dimensions are minimum dimensions: according to the configuration, larger dimensions might apply.

Speed

\[ v = 0.5 – 0.65 \text{ m/s} \]
Nominal rise according to EN 115 with A = 1000 mm max. 16 m

All dimensions in mm. Observe national regulations. Subject to changes.

Please contact Schindler for support loads, motor rating, transport dimensions and weight!
Please contact Schindler for dimensions relating to truss extensions, double drives, frequency converters and lighting installations.
Please request detail information Z, X and Y for expansion joints, seismic specifications and wind loads respectively from Schindler.
Please contact the supplying factory for availability and delivery date.
For outdoor installation, please contact Schindler. For speed \( v = 0.75 \text{m/s} \) please contact Schindler.

---

### Table: Step Run

<table>
<thead>
<tr>
<th>Step run</th>
<th>M</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>2907</td>
<td>3307</td>
</tr>
<tr>
<td>L2</td>
<td>2990</td>
<td>3390</td>
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<tr>
<td>L3</td>
<td>5250</td>
<td>5630</td>
</tr>
<tr>
<td>L4</td>
<td>3797</td>
<td>4197</td>
</tr>
<tr>
<td>L5</td>
<td>3419</td>
<td>3819</td>
</tr>
</tbody>
</table>

**Step width**

- A: Step width 800 1000
- B: Width between handrails 1060 1260
- C: Handrail center distance 1140 1340
- D: Escalator width 1400 1640
- E: Pit dimension 1500 1700
- Lmax: without intermediate supports 18100 16800
- X1,2,3: with intermediate supports 15000 14000

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**Please contact Schindler for support loads, motor rating, transport dimensions and weight!**
**Please contact Schindler for dimensions relating to truss extensions, double drives, frequency converters and lighting installations.**
**Please request detail information Z, X and Y for expansion joints, seismic specifications and wind loads respectively from Schindler.**
**Please contact the supplying factory for availability and delivery date.**
**For outdoor installation, please contact Schindler. For speed \( v = 0.75 \text{m/s} \) please contact Schindler.**
For generations, Schindler has been providing the finest elevator and escalator technology to architects and builders around the world. Founded in Switzerland in 1874, Schindler is one of the world’s leading elevator and escalator manufacturers, with subsidiaries in over one hundred countries. Every day, Schindler solutions help around one billion people get from A to B.

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www.schindler.com