Elevator Technology

Escalators and moving walks

Escalating performance.

thyssenkrupp
When you choose an escalator or moving walk you want to feel confident with the decision you make. You want people you can trust and service you can count on. You want products that last and have minimal impacts on our environment. When you choose ThyssenKrupp Elevator, confidence is engineered into everything we do, from the planning and installation process to routine maintenance. It’s the reason customers trust us.
Our escalators help you move passengers through a fast-paced world. That’s why at ThyssenKrupp Elevator, we offer three classes of escalators, each designed to move people safely.

**VELINO COMMERCIAL-DUTY ESCALATOR**

Rise: up to 33'0" (10 m)
Step Width: 24", 32", 40"
(600 mm, 800 mm, 1000 mm)
Angle of Inclination: 30°
Speed: 100 fpm (0.5 m/s)
Usage Factor: 18–20 hours/day
Average Lifespan: 25 years
Step Load: per ASME minimum

ThyssenKrupp Elevator’s Velino commercial-duty escalator is designed to preserve the architectural integrity of almost any building. But it’s more than just good looks. This machine runs efficiently, keeping daily commuters safe while using minimal energy.

Thin stainless steel balustrades or 3/8" (10 mm) thick tempered safety glass panels and optional under handrail lighting provide striking aesthetics. Dual CPU controllers and optional Variable Voltage Variable Frequency (VVVF) drive technology save energy and help keep operational costs low.
Our heavy-duty Tugela escalator is most appropriate for high-rise applications and locations with heavy traffic. The reinforced balustrade is made of tempered safety glass so it is resistant to bumps from bags and cases. You can also customize the look with glass colors and optional under handrail lighting.

It features larger motors and chains, combined with reinforced handrail drives that make it an ideal escalator for convention centers, stadiums, smaller airports or any place where lots of people are on the move.

Rise: up to 65’7” (20 m)
Step Width: 24”, 32”, 40”
(600 mm, 800 mm, 1000 mm)
Angle of Inclination: 30°
Speed: 100 fpm (0.5 m/s)
Usage Factor: 20–24 hours/day
Average Lifespan: 30 years
Step Load: rated for 265 lbs/step

Dimensions above based on 100 fpm. The escalator shown above features glass balustrades and outer cladding, aluminum black-ribbed floorplates, aluminum skirt decking, black steps with yellow demarcation, and lights. See page 15 for a complete list of design options.

The Victoria transit-duty escalator is a non-stop workhorse perfect for transport hubs including the busiest train stations and airports. It is the strongest, most powerful ThyssenKrupp escalator model, featuring a specially reinforced drive system capable of maximum performance at full load capacity around the clock.

The Victoria features a step chain with external 4” (102 mm) rollers rather than traditional 3” (76 mm) internal rollers. It was developed specifically for transit traffic and is available with stainless steel or glass high-deck balustrades.

Rise: up to 164’-0”
Step Width: 24”, 32”, 40”
(600 mm, 800 mm, 1000 mm)
Angle of Inclination: 30°
Speed: 100 fpm (0.5 m/s)
Usage Factor: 24 hours/day
Average Lifespan: 35–40 years
Step Load: rated for 320 lbs/step

Dimensions above based on 100 fpm. May be modified to suit APTA guidelines. The escalator shown above features stainless steel balustrades and outer cladding, checkerplate floorplates, anodized silver skirt decking, and black steps. See page 15 for a complete list of design options.
Help your passengers take a break or speed their pace. Hidden away on the inside of ThyssenKrupp Elevator’s moving walks is conveyor technology that keeps people safe as they move to their destination.

### ORINOCO MOVING WALK

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rise:</strong></td>
<td>up to 29'-7&quot; (up to 9 m)</td>
</tr>
<tr>
<td><strong>Nominal Pallet Width:</strong></td>
<td>40&quot;, 48&quot;, 56&quot; (1000 mm, 1400 mm, 1600 mm)</td>
</tr>
<tr>
<td><strong>Length:</strong></td>
<td>up to 656'-2&quot; (up to 200 m)</td>
</tr>
<tr>
<td><strong>Angle of Inclination:</strong></td>
<td>0 through 6°, 10°, 12°</td>
</tr>
<tr>
<td><strong>Speed:</strong></td>
<td>100–125 fpm (0.5–0.65 m/s)</td>
</tr>
<tr>
<td><strong>Usage Factor:</strong></td>
<td>18 hours/day</td>
</tr>
<tr>
<td><strong>Average Lifespan:</strong></td>
<td>25 years</td>
</tr>
</tbody>
</table>

All three models of our Orinoco moving walks are steadfastly dependable and have design options that allow this hard-working equipment to harmonize with any style of architecture.

Choose from balustrades with 40" (1016 mm) high 3/16" (10 mm) thick tempered safety glass or high-deck stainless steel that will keep equipment looking good despite constant traffic.
iwalk
PIT OR PIT-LESS MOVING WALK

Rise: up to 23'-0" (up to 7 m)
Length: up to 328'-1" (up to 100 m)
Angle of Inclination: 1
0 through 6°, 12°
Speed: 100–125 fpm (0.5–0.65 m/s)
Usage Factor: 20 hours/day
Average Lifespan: 25 years

Dimensional data shown here comply with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from national codes. Consult your local ThyssenKrupp Elevator representative for details.

Dimensions above based on 100 fpm.

iwalk, from ThyssenKrupp Elevator, will fit anywhere. The iwalk’s slim dimensions require very little construction work, and technical features ensure low energy consumption. In fact, it is compact enough to easily integrate into existing buildings.

The horizontal version of the iwalk only needs a shallow — just over a 14" (356 mm) — pit, or can be installed on top of an existing floor. All that is needed for installation are two ramps, one at each end. This makes it possible for the iwalk to be installed and removed quickly to deal with temporary traffic needs or moved from one side of a building to another for renovation work.

Thanks to small and flat transitions, the risk of tripping on an iwalk is greatly reduced. Unlike traditional moving walks, these seamless transitions ease travel with luggage trolleys, strollers, or shopping carts.

iwalk features technology that can monitor how many people it is carrying and adjust power usage accordingly, making it a perfect fit for energy and cost conscious customers.

Advantages at a glance:
- Easy to adapt and install for very flexible planning
- Lightweight and modular for easier transport and flexible installation
- Innovative pallet belt with efficient drive for smooth, safe ride
- Increased efficiency through an energy recovery system
- Longer balustrades and wider pallets that maintain exterior dimensions
- Low risk of tripping due to reduced comb segment height
- State-of-the-art design with flat entrance area and no visible fasteners
- Variable speed operation also available
Modernizing outdated building systems offers the largest single impact a building owner can have on reducing energy consumption and costs. Modernizing your escalator system means compliance with the latest code and improved safety and reliability.

By modernizing your escalators, you can expect a reduction in energy use. ThyssenKrupp Elevator will also work hard to utilize as much of your existing equipment as possible to reduce waste and save you money.

When ThyssenKrupp Elevator modernizes escalators, we can use most existing trusses, regardless of the manufacturer. The existing truss is cleaned, repainted and prepared for the installation of the new imod component package.

During an imod modernization, the following components are replaced:

- Floor plates
- Combplate assemblies
- Handrails
- Handrail drive system
- Balustrades, skirts, deckings
- Mounting hardware
- Steps, chains, axels, rollers
- Step tracks and structure
- Motor, gear box, and brake
- Main drive sprocket assembly
- Lower tension carriage systems
- Controls, piping, and electrical equipment

“move ahead with optimum EFFICIENCY.

The imod escalator has improved safety features, higher reliability and will provide energy savings to our company.”

GINA WAGGONER, Director Ford Land Facilities Management
SAFETY

SAFETY ZONE
The entry and exit zone shall be kept clear of all obstacles. The width of the zone shall be not less than the width between the centerlines of the handrail plus 8” (200 mm). See Fig. 1.
The length of the zone, measured from the end of the newel, shall be no less than twice the distance between the centerlines of the handrail. Space shall be provided to accommodate all traffic in the safety zone.

SKIRT BRUSHES
Skirt brushes are intended to prevent passenger foot entrapment within the step/skirt running clearance. Factory-installed skirt brushes are featured on all ThyssenKrupp’s escalators.

CLEAR HEIGHT ABOVE STEPS
The clearance above the step or pallet band must be at least 7'-0" (2134 mm) at every location as required by code.

LIGHTING
In order for passengers to step safely onto escalators, the step or pallet band must be adequately lit. The ambient building lighting must be at least 50 lx along all parts of the step band. ThyssenKrupp Elevator offers various additional lighting options.

For example:
- Above the balustrade (under handrail)
- Integrated in the skirt band
- At the combplates

<table>
<thead>
<tr>
<th>Step Width</th>
<th>Safety Zone Width</th>
<th>Safety Zone Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>24”</td>
<td>3’-5”</td>
<td>5’-6”</td>
</tr>
<tr>
<td>600 mm</td>
<td>1041 mm</td>
<td>1676 mm</td>
</tr>
<tr>
<td>32”</td>
<td>4’-1”</td>
<td>6’-10”</td>
</tr>
<tr>
<td>800 mm</td>
<td>1245 mm</td>
<td>2083 mm</td>
</tr>
<tr>
<td>40”</td>
<td>4’-9”</td>
<td>8’-2”</td>
</tr>
<tr>
<td>1000 mm</td>
<td>1448 mm</td>
<td>2489 mm</td>
</tr>
</tbody>
</table>

Fig. 1: Infill panels

DESIGN OPTIONS

OUTER CLADDING
- Stainless steel
- Mirror
- Glass
- Powder coated

FLOOR PLATES
- Aluminum black ribbed
- Aluminum plain ribbed
- Stainless steel structure-etched
- Aluminum checker plate

SKIRT DECKING
- Brushed stainless steel
- Aluminum
- Powder coated
- Anodized silver

ESCALATOR STEP OPTIONS
- Powder coated silver with yellow demarcation
- Powder coated black grooves with yellow demarcation

MOVING WALK PALLET OPTIONS
- Powder coated silver with yellow demarcation
- Powder coated black grooves with yellow demarcation

*These dimensions are absolute minimums. According to Fig. 1, an infill panel must be installed.

1 Yellow demarcation optional.
OVERVIEW
TRAVEL SPEEDS AND TRANSPORT CAPACITIES
Escalators and moving walks can continuously move passengers. Consequently, their transport capacity is much greater than that of elevators. Travel speed of escalators is limited by code to 100 fpm (0.5 m/s). For moving walks with 0–8° inclination, the speed can be increased up to 180 fpm (0.9 m/s).

TRAVEL HEIGHTS AND INCLINES
Escalators
With a rise of only 6’-0” (1829 mm), an escalator can considerably improve access to a building. ThyssenKrupp Elevator has designed escalators to reach a rise of 164’-0” (50 m). Code limits the inclination angle to 30° in the US and Canada. See Figs. 2A and 2B.

Moving Walks
Inclined moving walks typically used in shopping centers and retail applications are permitted a maximum angle of 12°. For extended travel distances, e.g., trade fairs and airports, horizontal moving walks which enable the use of wider pallets are the most efficient option.

STEP AND PALLET WIDTHS
A clearance of 1½” (30 mm) for installation must be added to the overall width on either side of an escalator or moving walk. The standard escalator step width for the North American market is 40” (1000 mm). See Fig. 3.

OUTDOOR APPLICATIONS
ThyssenKrupp Elevator outdoor application escalators include as a minimum: galvanized truss structure, protective chain covers, automatic lubrication, handrails with nylon sliders, stainless steel handrail guides, oil/water separator in lower pit floor, and stainless steel fasteners for all exposed surfaces.

DIMENSIONS & DATA

ESCALATOR THEORETICAL TRANSPORT CAPACITIES AND DIMENSIONS

<table>
<thead>
<tr>
<th>Nominal Step Width</th>
<th>Truss Width</th>
<th>Pit Width</th>
<th>Persons per Hour²</th>
</tr>
</thead>
<tbody>
<tr>
<td>24”</td>
<td>600 mm</td>
<td>5’-8½”</td>
<td>5’-10”</td>
</tr>
<tr>
<td>30”</td>
<td>800 mm</td>
<td>4’-6½”</td>
<td>4’-9½”</td>
</tr>
<tr>
<td>40”</td>
<td>1000 mm</td>
<td>5’-0½”</td>
<td>5’-2½”</td>
</tr>
</tbody>
</table>

MOVING WALK THEORETICAL TRANSPORT CAPACITIES AND DIMENSIONS

<table>
<thead>
<tr>
<th>Nominal Pallet Width</th>
<th>Truss Width</th>
<th>Pit Width</th>
<th>Persons per Hour²</th>
</tr>
</thead>
<tbody>
<tr>
<td>32”</td>
<td>640 mm</td>
<td>4’-4½”</td>
<td>4’-6½”</td>
</tr>
<tr>
<td>40”</td>
<td>800 mm</td>
<td>5’-0½”</td>
<td>5’-3½”</td>
</tr>
<tr>
<td>48”</td>
<td>1200 mm</td>
<td>5’-8½”</td>
<td>5’-12½”</td>
</tr>
<tr>
<td>56”</td>
<td>1400 mm</td>
<td>6’-4½”</td>
<td>6’-8½”</td>
</tr>
<tr>
<td>64”</td>
<td>1600 mm</td>
<td>7’-0½”</td>
<td>7’-2½”</td>
</tr>
</tbody>
</table>

ESCALATOR PARTS

1 Dimensional data shown here comply with the current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from national codes. Consult your local ThyssenKrupp Elevator representative for details.

2 Based on 100 fpm.

3 A maximum inclination of 12° is permitted for moving walks. If the pallet width exceeds 40” (1000 mm), a maximum inclination of 4° is permitted by code.
PRE-INSTALLATION

PREPARATIONS BY OTHERS

- Whenever possible, schedule escalator delivery to take place prior to the installation of floor slabs, ceilings, roofs, or any overhead obstructions.
- Normally, completely assembled escalators and/or moving walks are moved in by crane through a suitable overhead opening. See Fig. 4A. In most cases, this allows the equipment to be assembled off site, removing disruptions to other subcontractors. Another option is to bring the escalator and/or moving walk in through a suitable opening at the ground floor. It is important that the route to the assembly location within the building is free of obstacles and level, and the ceiling can support the hoist load. Otherwise, appropriate shoring must be provided.
- Check that the floor of the building will bear the transport weight of your escalator. Otherwise, additional floor under-pinning support will be required during the installation period.
- In order to have your system delivered and assembled in a timely manner, please take note of the following during your planning:
  1. In cases where it is not possible to bring a complete escalator and/or moving walk into the building, the balustrade is dismantled before delivery. See Fig. 4B.
  2. The length of some escalators and/or moving walks require that they are manufactured with a split and installed in sections.
  - You will be notified of the location and size of required ceiling/roof openings. Please ensure the required opening dimensions are made available.
- When designing support recesses take into account the support loads. They are shown on the installation drawing, i.e. at those locations where the supports of your escalator (or your moving walk) will be placed, the supports must be able to bear the weight of the escalator including 105 lbs/ft² traffic load. When preparing the supporting structures, the dimensions and reactions indicated on our installation plans must be precisely adhered to. See Fig. 5.
- Intermediate supports are needed on escalators with a considerable travel height and on long moving walks. You will be informed if an intermediate support is required and ThyssenKrupp Elevator will assist with determining the proper location. See Fig. 6. Typically, an intermediate support is required:
  - 2 flat steps design: H>26’-6” (8077 mm)
  - 3 flat steps design: H>24’-10” (7569 mm)

![Fig. 4A: Completely assembled escalator.](image)

![Fig. 4B: Split escalator.](image)

![Fig. 5: Top and bottom supports.](image)

![Fig. 6: Intermediate supports.](image)
PRE-INSTALLATION

PREPARATIONS BY OTHERS

- You will be responsible for fitting pick-up points for hoisting and supporting the escalator during assembly. Speak to your local ThyssenKrupp Elevator representative for size and location. These should be located exactly above the center of the supporting points. For systems with several supporting structures please plan for additional pick-up points above the intermediate supports. All pick-up points must be capable of taking a load strain of 11,240 lb (50 kN). See Figs. 7A and 7B.
- The exterior cladding of the truss (unless otherwise specified) is prepared by others.

Weight of the cladding is not to exceed 10 lb/ft² (48.82 kgf/m²).

- Our diagram shows where escalators and moving walks are connected to the power supply. Power supply is always located at the upper well. Please note that electrical cables are inserted at a distance of 1'-6" (450 mm) on the side of the support and that the length of the cable on the inside of the escalator must be about 5'-0" (1500 mm). With complex controls, such as those required in transit installations, the escalator control equipment may be installed in a separate room.

The power supply cable must be installed in this separate control room. In case of additional soffit lighting, a separate power supply must be provided. The power connection must be provided by an authorized electrician assigned by the owner’s representative. If escalator truss or comb plate heaters are provided, a separate 220 VAC power supply is required.

- An optional safety feature is the installation of a sprinkler piping within the escalator or moving walk.

- A type-proofed oil/water separator is essential for escalators and moving walks which are designed for outdoor exposure. ThyssenKrupp supplies an oil/water separator in the lower well for all outdoor-exposure products. At the construction site, a recess and drain must be provided for the oil separator in the pit. See Fig. 8.

- In the threshold areas of the escalators, a railing must be installed by others. The distance to the escalator handrail must be at least 4" (101 mm).

Fig. 7A: Pick-up points with wooden beam.
Fig. 7B: Pick-up points with threaded rods.
Fig. 8: Intermediate supports.

Fig. 7A: Stable concrete, 2 drill holes in the concrete, wooden beam, steel tube, steel plates.
Fig. 7B: Stable concrete, 2 drill holes in the concrete, wooden beam.
ESCALATORS

- Electrical service to upper well including three-phase main power supply and lockable, fused disconnects to each controller. Provide single phase 120 VAC electrical service and lockable, fused disconnect for light and convenience outlet in the upper well and all other electrical devices that are not a part of the escalator proper but may be required by local authorities.

- Provision of wiring and conduit from the closest wellway of each escalator group or single escalator to the firefighter’s control room and/or console as required. Coordinate with escalator contractor for size, number and location of conduit.

- Other work required for installation of the escalator(s) including, but not limited to, required changes to sprinklers, lighting, electrical, air conditioning and heating systems. Provide barriers for open wellways during construction per OSHA regulations.

- Cutting of floors, walls, ceilings or partitions together with any repairs made necessary by such cutting.

- Painting and finish work required beyond that included in this section.

MOVING WALKS

- Electrical service to upper well including three-phase main power supply and lockable, fused disconnects to each controller. Provide single phase 120 VAC electrical service and lockable, fused disconnect for light and convenience outlet in the upper well and all other electrical devices that are not a part of the moving walk proper that may be required by local authorities.

- Provision of wiring and conduit from the closest wellway of each moving walk group or single moving walk to the firefighter’s control room and/or console as required. Coordinate with moving walk contractor for size, number and location of conduit.

- Other work required for installation of the moving walk(s) including, but not limited to, required changes to sprinklers, lighting, electrical, air conditioning and heating systems. Provide barriers for open wellways during construction per OSHA regulations.

- Protect moving walk truss, steps, landing plates, balcony, handrail, and special metal finishes from damage during construction.

- All engineering costs to determine and identify structural load capacities and restrictions will be by others.
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