Dedicated to People Flow™

KONE

OPTIONS AND PLANNING DIMENSIONS

KONE TransitMaster™ 140 Escalators

KONE escalator and autowalk product range

Well designed and manufactured escalators and autowalks are a must for today's highly demanding public areas. They are key to ensuring the smooth, efficient and safe flow of people traveling within a building's environment.

KONE prides itself on delivering this option to customers. We offer a professional level of product design, customer support and project management, combined with the highest levels of efficiency and safety during the installation phase.

Versatile KONE TransitMaster escalators and autowalks are ideal for new installations while also providing one of the best small footprint options for customers looking for a replacement escalator solution.

The KONE TransitMaster product range incorporates two specific models:

- KONE TransitMaster 140 escalator
- KONE TransitMaster 120 escalator

Each one is specifically designed to meet the exact demands and needs of the market sector, whether it's for a low-rise retail location, a mass transit airport or railway station system.

TransitMaster 140 – built for reliable and long-term operation

The KONE TransitMaster 140 is a heavy-duty escalator designed for the public transportation segment. This segment covers metro/underground systems as well as airports, rail systems and other transit centers. It is part of the total KONE solution offering together with other KONE products such as:

- Commercial escalators and autowalks ---------- e.g. KONE TravelMaster™ 110
- Passenger elevators ---------- e.g. KONE MonoSpace® and EcoSpace™
- Service or Freight elevators ----- e.g. KONE MonoSpace

The versatile KONE TransitMaster 140 escalator is ideal for new installations and is specifically designed to meet the demands and needs of the market sector all the way up to the demanding requirements of mass transit airport and railway systems. Our heavy-duty escalators are designed to enable the seamless flow of large numbers of passengers.

It is designed, from both a technical and visual point of view, to fulfill the main customer requirements of the target segments:

- Safety and reliability
- Optimized total cost of ownership
- High quality in terms of technical performance and visual appearance
- Flexible offering and order engineering to meet customers' various needs
- Elegant and modern design

Overview of technical specifications

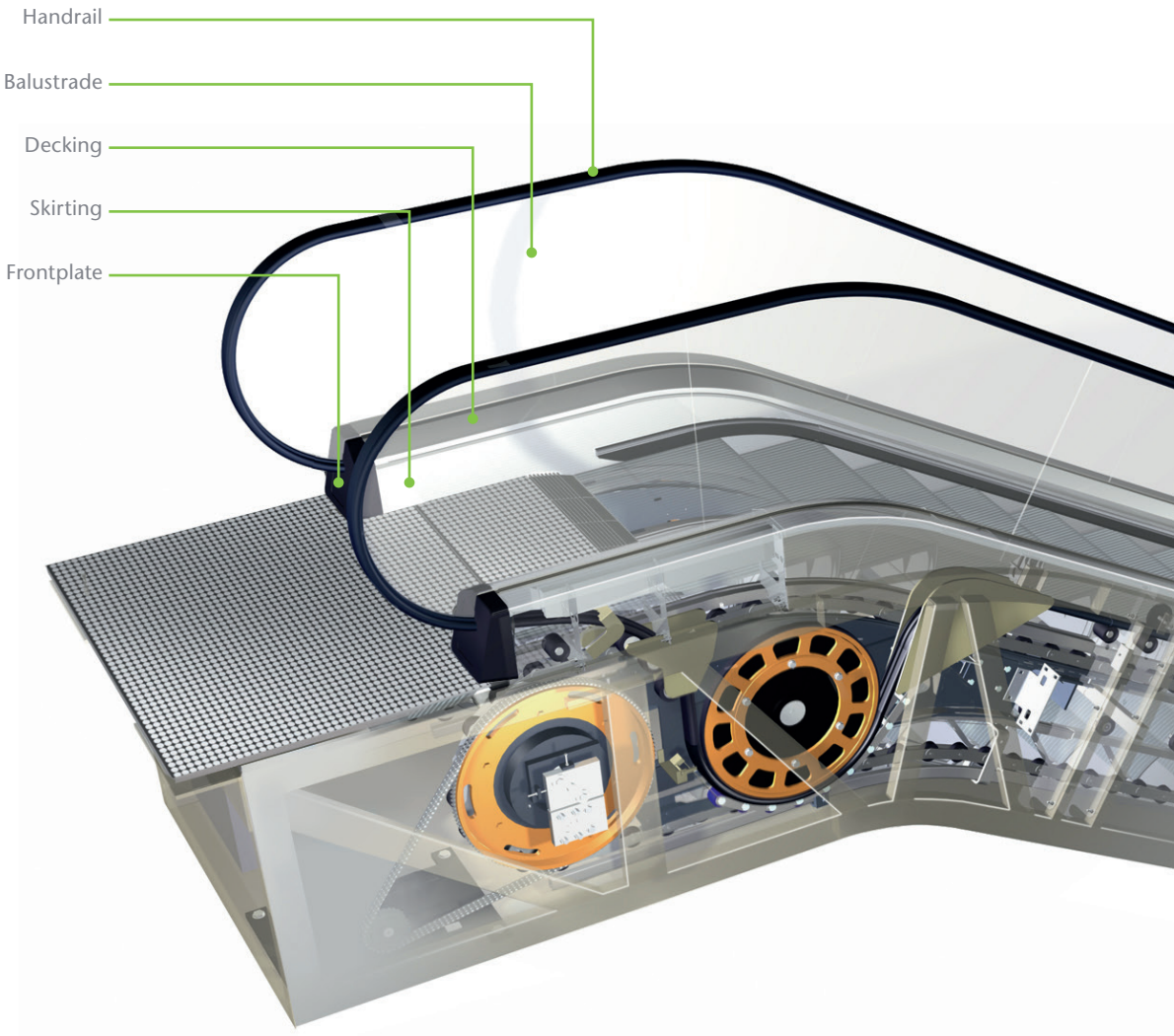
KONE TransitMaster 140 basic data	
Inclination	30°
Horizontal steps	2 – 4
Transition radii (top/bottom)	1.5/1.0, 2.7/2.0
Maximum rise	60 ft. (18 m)
Operational environment	Indoor, semi-outdoor, full-outdoor
Step width	32 in. (800 mm), 40 in. (1000 mm)
Balustrade type	Glass, solid inclined
Balustrade height	40 in. (1000 mm)
Speed	100 fpm (0.5 m/s)
Step chains	Outside roller chains (Ø 100 x 1 in.)
Duty cycle	Up to 24 hours/day
Typical service life	200,000 hours*

** Up to 24 hours/day and for 200,000 hours with added options*

Eco-efficiency

KONE firmly believes that sustainable buildings are our future. We are committed to helping customers achieve their environmental objectives by providing environmentally responsible products and services.

- Standby speed operation reduces the escalator speed when no passengers are traveling, thus further reducing energy consumption and increasing equipment lifetime
- The possibility for a lubrication-free step chain means no oil, a cleaner escalator and environment, reduced fire hazard, simpler cleaning and easier maintenance
- LED lighting is both energy-efficient and long-lasting
- Escalator packaging and timber protection are examples of our commitment to using wood taken from sustainable forests
- At the end of March 2008, 90% of our production operations were certified according to the ISO 14001 standard

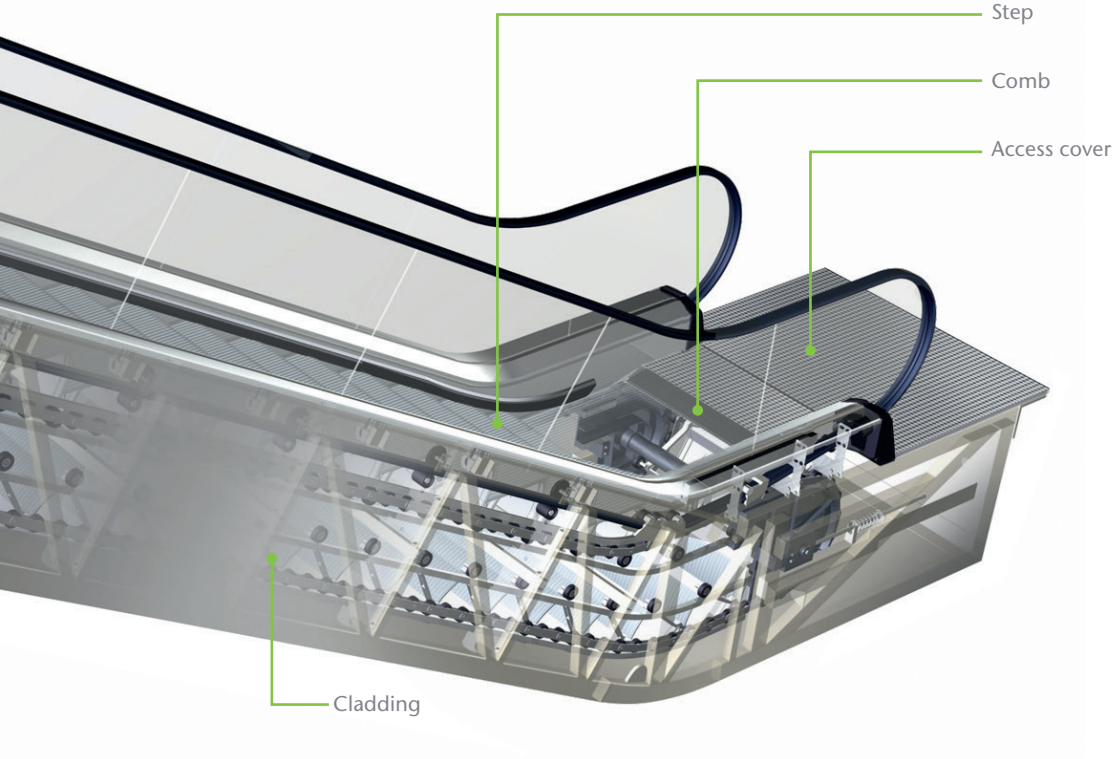


Safety options

The standard safety features of the KONE TransitMaster 140 according to the ASME A17.1/CSA B44 safety code are the following:

- Emergency stop buttons in the newel ends at the top and bottom of the escalator
- Broken step-chain (chain tension) switches in the return station which stop the escalator in case of failure of the step chain
- Handrail inlet switches with contacts at the handrail inlets into the balustrade heads
- Combplate impact device switches which stop the escalator in case objects become trapped between the comb teeth and the moving step band
- Level step device designed to detect a step that is about to enter the comb area at a lower elevation than the combplate
- Step guards at the top and bottom
- Speed sensor system, which electronically monitors the motor for over/under speeds and step band reversal
- Stop switches for technicians' use within upper and lower end pits
- Sockets for inspection use installed in the upper and lower machine compartments
- Skirt deflector brushes
- Access cover contacts
- Handrail speed monitor
- Step upthrust switch in the lower curve area to detect obstructions and stop the escalator before an elevated step impacts the combplate
- Missing step device at the top and bottom of the escalator to detect a missing step and remove power from the motor

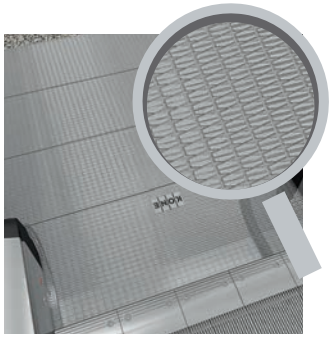
Other safety and monitoring functions, such as KONE Care™ Remote Monitoring and KONE E-Link™, are available on request.



Visual options

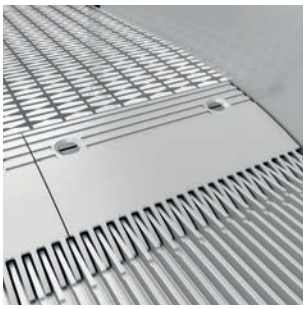
Access cover

Natural ribbed aluminum

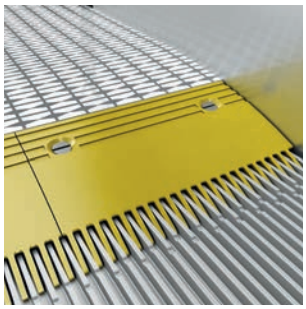


Stainless steel surface with punched diamond pattern (available in 304#)

Comb

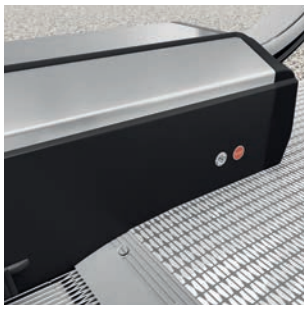


Aluminum comb segments



Aluminum comb with yellow coating

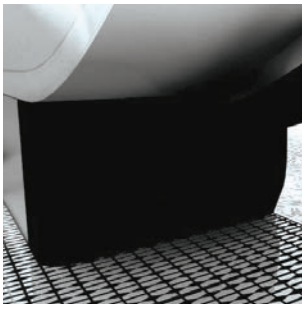
Skirt



Sheet steel skirt with black anti-friction coating

Brushed satin stainless steel skirt with clear anti-friction coating

Frontplate



Black plastic

Stainless steel

Black plastic flat frontplate for solid inclined balustrade

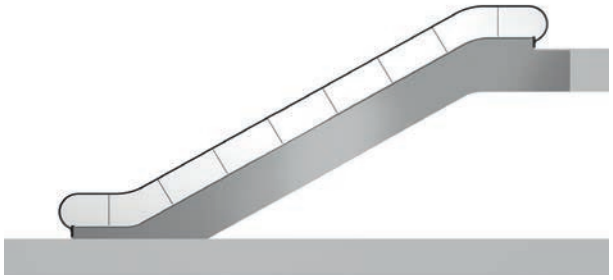
Balustrade

Clear glass balustrade panels

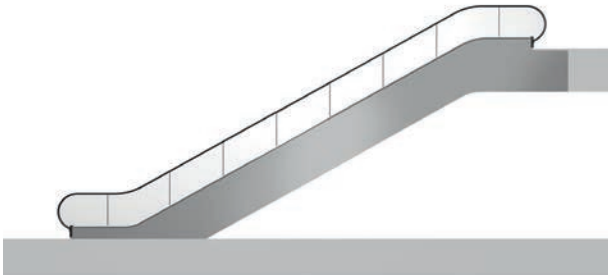
Brushed stainless steel solid inclined balustrade

Balustrade extension

Balustrade joints



As standard, joints between glass balustrade panels are arranged perpendicular to the truss. Inclined panels are 48 in. (1200 mm) wide except for one make-up panel at the upper end which is used to compensate for the vertical rise.



As an option, the inclined panel widths can be equalized with joints arranged perpendicular to the floor or truss.

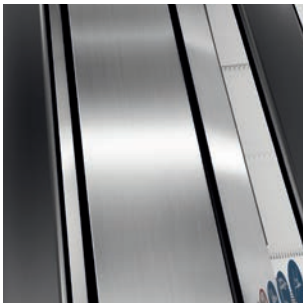
Handrail

Black

Black with white demarcation inserts

Decking

Brushed satin stainless steel



Center decking

Step color

Silver aluminum

Black color aluminum
with metal color ribs

Step demarcation

Yellow painted (RAL1004)

Yellow plastic insert (RAL1023)

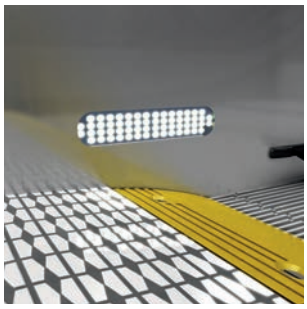
Horizontal steps

2 horizontal steps

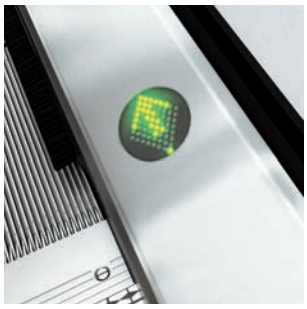
3 horizontal steps

4 horizontal steps

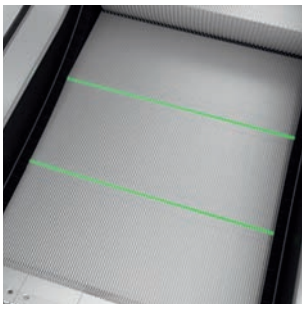
Lighting



LED comb lighting



Traffic lights located in the decking



Under-step demarcation lighting

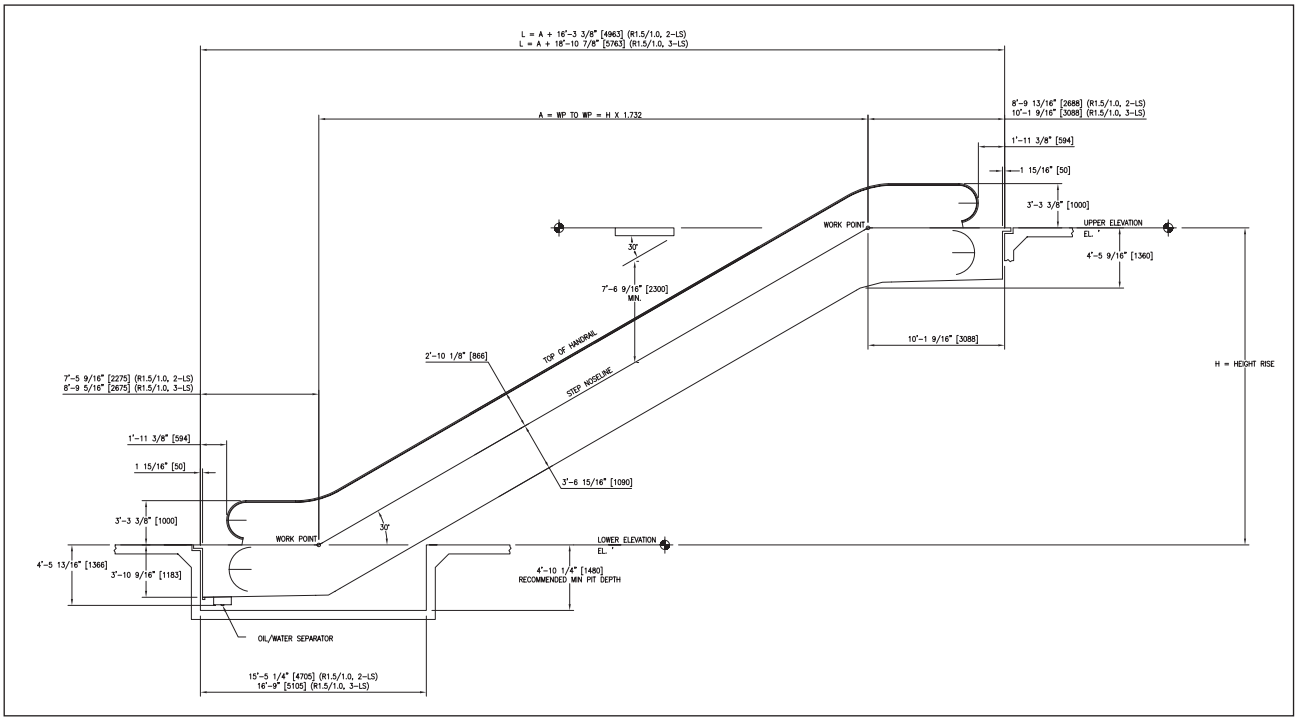
Additional options

Diagnostics display

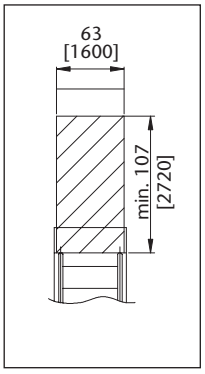
KONE TransitMaster 140 planning dimensions

Architectural planning data

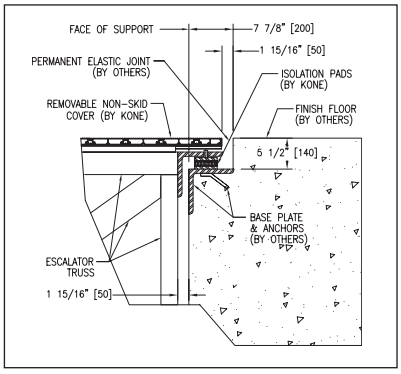
30° inclination / 1.5 transition radii / 40 in. (1000 mm) step width / 2 or 3 horizontal steps at each landing



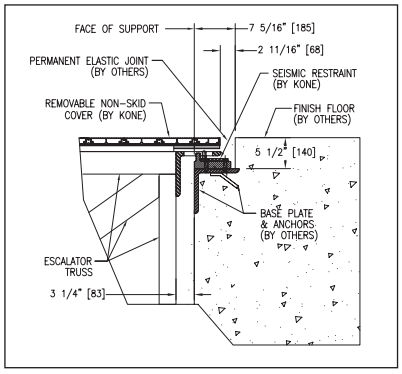
Passenger Circulation Area Requirements



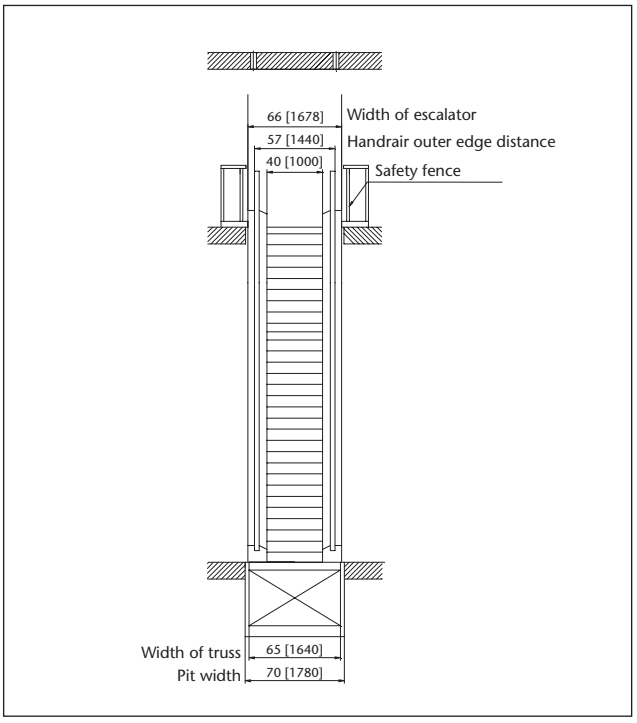
Standard Slip-End Support



Seismic Slip-End Support



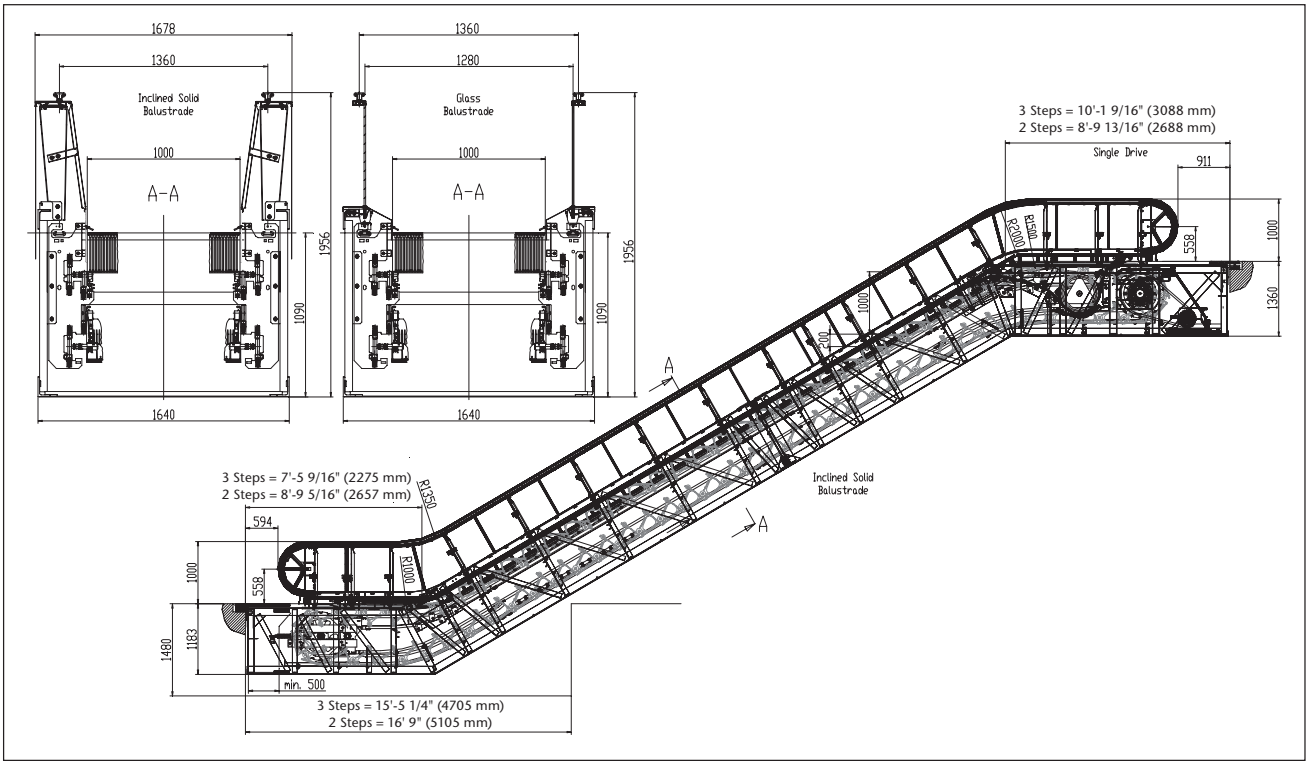
Reaction force (kN)	
Without intermediate support	Please contact your local KONE Sales Professional for current reaction data
With intermediate support	Please contact your local KONE Sales Professional for current reaction data



- All dimensions are in metric and US standard measurements
- Maximum vertical rise: H = 709 in. (18,000 mm)*
- If intermediate support is required, please contact your KONE Sales Professional
- When truss extensions are required please contact your local KONE Sales Professional
- Additional cladding material maximum 10 lbs./ft^2 (15 kg/m^2)
- Additional step width and level step options are available. Please contact your local KONE Sales Professional.

** For rises above 709 in. (18,000 mm) please contact your local KONE Sales Professional.*

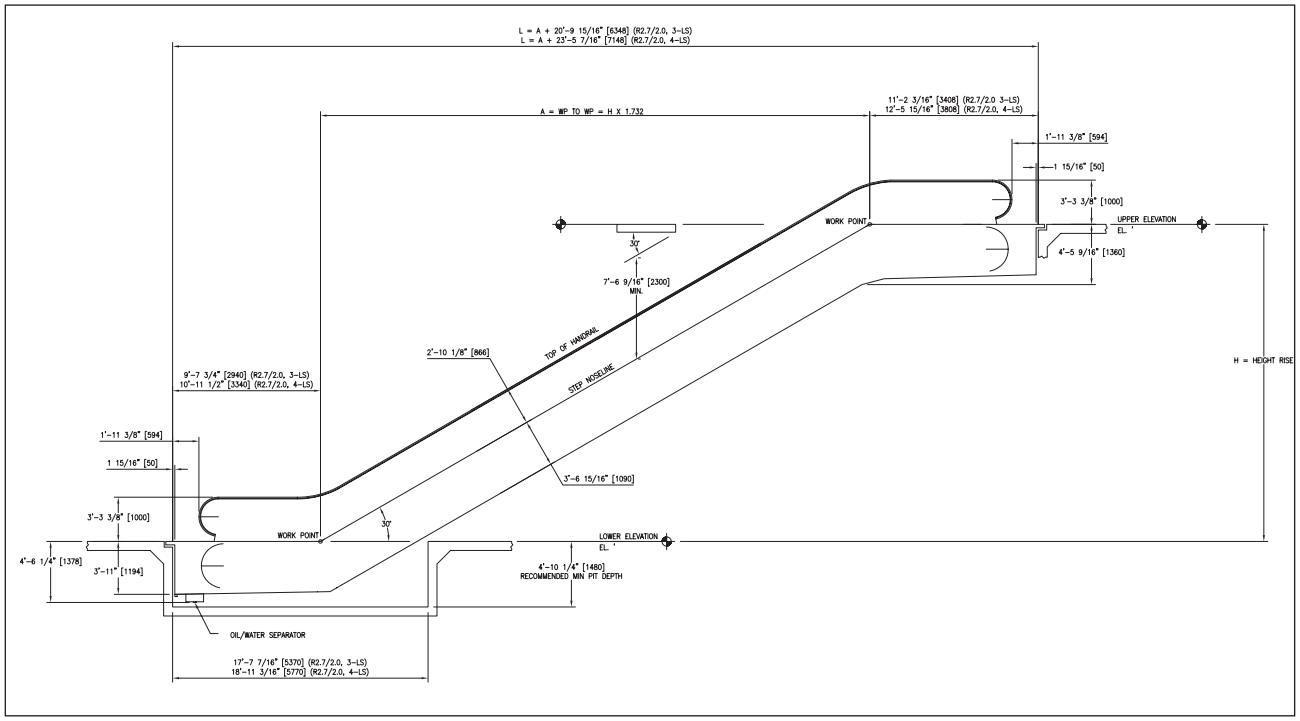
Overview drawing



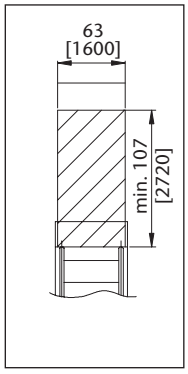
KONE TransitMaster 140 planning dimensions

Architectural planning data

30° inclination / 2.7 transition radii / 40 in. (1000 mm) step width / 3 or 4 horizontal steps at each landing



Passenger Circulation Area Requirements



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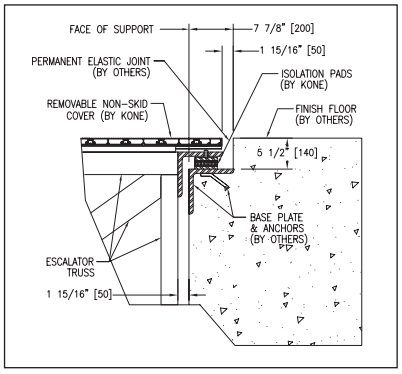
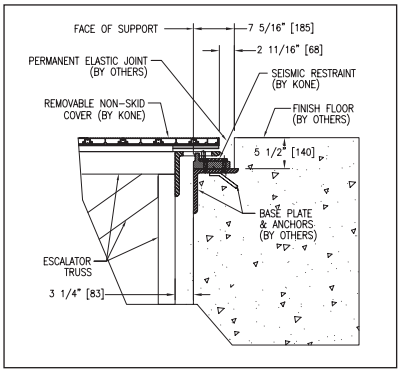


Seismic Slip-End Support



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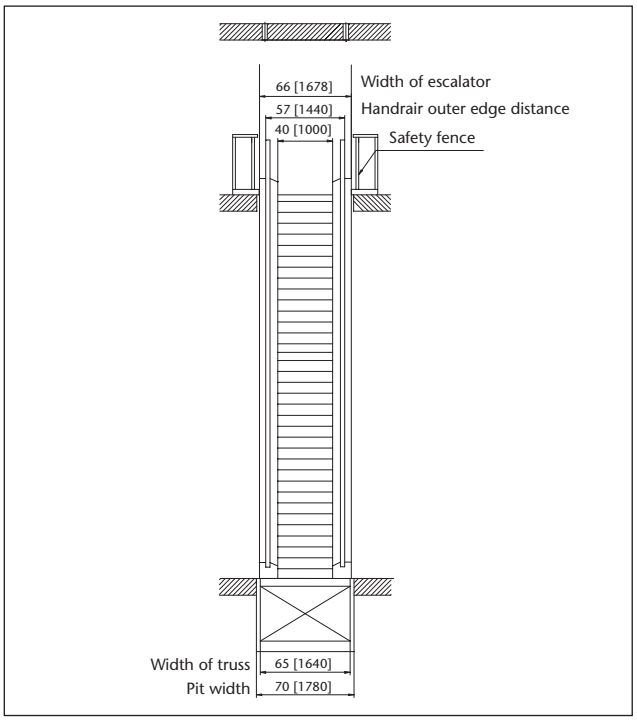

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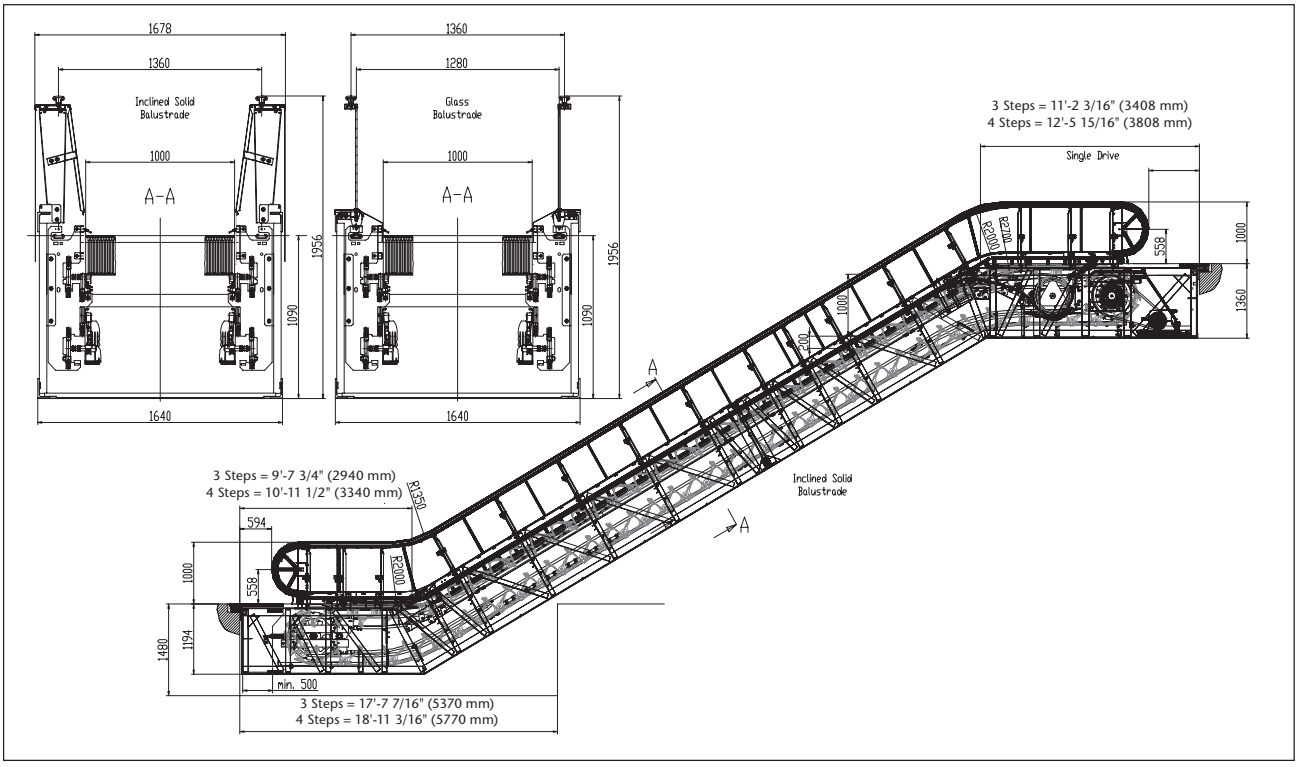
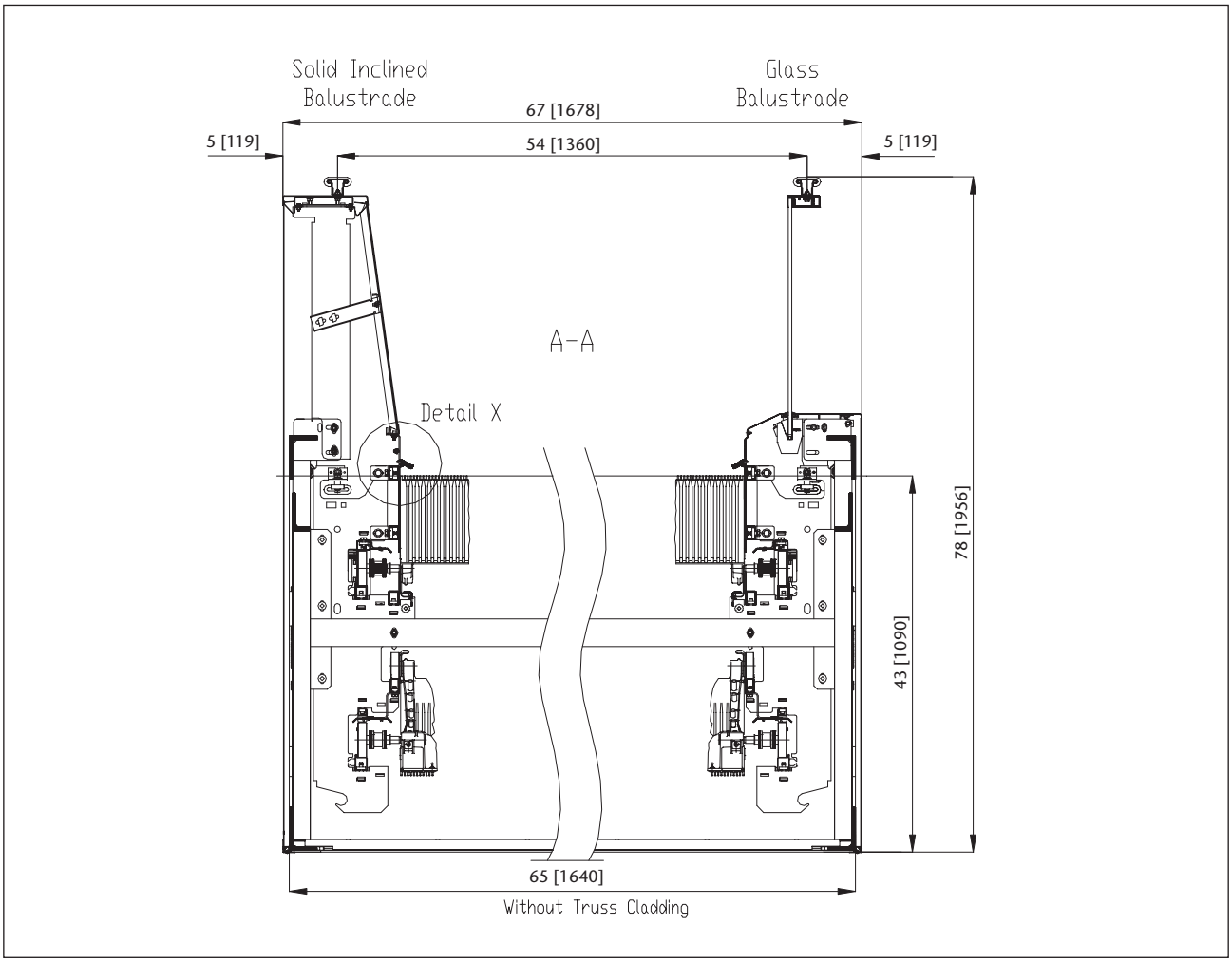
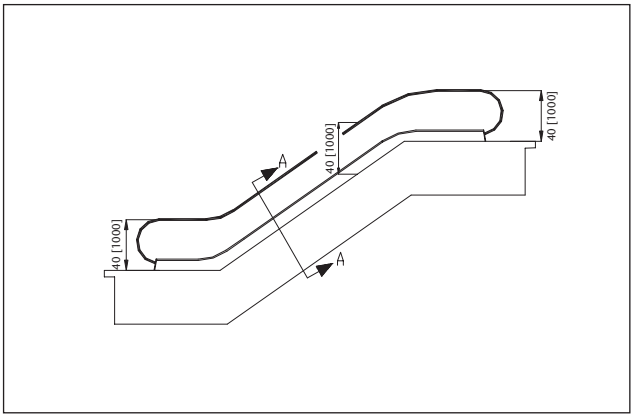
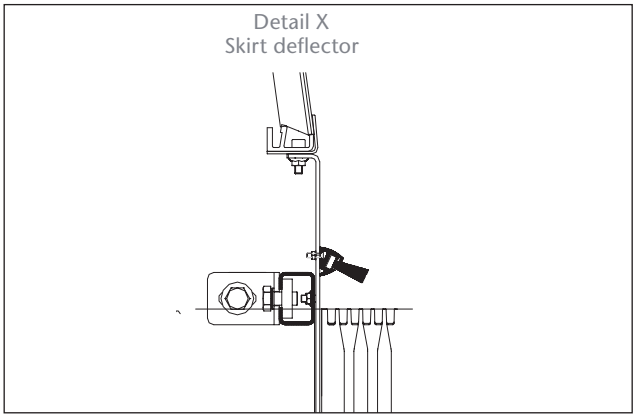


Balustrade section

Solid inclined and glass balustrade








Ausgang
Abfall

KONE provides innovative and eco-efficient solutions for elevators, escalators and the systems that integrate them with today's intelligent buildings.

We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernization. KONE is a global leader in helping our customers manage the smooth flow of people and goods throughout their buildings.

Our commitment to customers is present in all KONE solutions. This makes us a reliable partner throughout the life cycle of the building. We challenge the conventional wisdom of the industry. We are fast, flexible, and we have a well-deserved reputation as a technology leader, with such innovations as KONE MonoSpace®, KONE EcoMod™, and KONE UltraRope®.

KONE employs nearly 50,000 dedicated professionals to serve you globally and locally.

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