

Elevator Technology

thyssenkrupp Elevator AG  
thyssenkrupp Allee 1  
45143 Essen  
Germany  
www.thyssenkrupp-elevator.com

Elevator Technology

# Escalator lighting

The 4<sup>th</sup> dimension of design



thyssenkrupp

Individual details given in this publication are guaranteed only if confirmed expressly in writing and in each respective case.

EN.V1.08.2016

engineering. tomorrow. together.



# The optical boost to your building.

## Great potential.

Lighting is a key design factor that is often neglected. As the great architect Le Corbusier once said, "Architecture is the learned game, correct and magnificent, of forms assembled in the light." Without attractive escalator lighting your entire building is missing the 4th dimension of design.

## Specialist expertise.

thyssenkrupp knows how to let your escalator appear in the best possible light. For a new escalator you can choose the very latest lighting options to ensure your escalator enhances the ambience of the entire building. For existing escalators we can offer you an impactful refurbishment. thyssenkrupp not only has a wide variety of escalator lighting elements for an architect to choose from, it can also fulfill any number of specific wishes.

## Building benefits.

Well-designed escalator lighting makes any building more attractive, improves safety levels, and gives clear guidance to people using your store, shopping mall, station, etc. By installing the right kind of escalator lighting, you can subtly guide people to where you want them to go.

## Leading lights.

An attractively lit escalator not only attracts people to your building, it also increases the chance that they come again. Since lighting has a proven impact on people's moods, you can increase their propensity to spend money or stay in your building longer – and that's sure to be good for your business.





Decorative lighting –  
a powerful  
design element.



#### Skirt band lighting.

##### Function:

- Supports light and color effects on the step band.
- Creates a beautiful ambience on and around the escalator.
- Special effects very impressive when installed with a metal balustrade.
- Almost uniform light channel as no shadows are cast and no individual LEDs are visible.

##### Implementation:

- LEDs arranged above the skirt behind a robust diffuser.
- Skirt band lighting makes color changes and moving lights possible.
- Lighting extends from one handrail inlet to the other and includes the straight and curved sections without interruption.



## Enhancing building space.

Decorative lighting has the power to radically enhance space. Are you exploiting this potential? Our numerous lighting options offer you many possibilities to improve the aesthetic appeal of escalators. Unobtrusive lighting makes escalators appear less bulky. Different colored lighting creates differing moods in a building. Changing colors make an escalator appear less static. If dark areas under or near an escalator are lit up, they instantly become more attractive. Check out on the decorative lighting options we have to offer – for your building's benefit.



### Truss lighting.

Function:

- Attractively plays with light and shadows.
- Provides outstanding insights into the working escalator.
- Underlines the character of this sophisticated piece of machinery.

Implementation:

- LEDs arranged inside the truss.
- Outer cladding of either transparent or translucent glass.
- Lighting extends from the bottom to the top of the escalator's outer face.
- Direct or indirect lighting possible.



### Robust balustrade lighting.

Function:

- Combines robust mechanical features with decorative lighting.
- Gives an indoor or outdoor escalator a sturdy appearance.
- Visible from inside and outside.

Implementation:

- LEDs arranged in a robust profile under the handrail on the outer side of the glass balustrade.
- Lighting extends from one handrail inlet to the other and includes the newels and the straight and curved sections without interruption.
- Robust balustrade lighting enables color changes and moving lights.
- Suitable for retrofit installation on existing robust balustrade.
- Suitable for indoor and outdoor installations.

### Slim balustrade lighting.

Function:

- Handrail appears to be flowing on the glass above a slim light-line.
- Gives an indoor escalator a pleasantly slim look.
- Visible from inside and outside.

Implementation:

- LEDs arranged in a filigree profile under the handrail on the outer side of the glass balustrade.
- Lighting extends from one handrail inlet to the other and includes the newels and the straight and curved sections without interruption.
- Suitable for retrofit installation.





#### Soffit light stripes.

##### Function:

- Accentuate the contours of an escalator.
- Give an escalator a more lightweight look.
- Numerous solutions to put the finishing touch to a building's lighting concept.

##### Implementation:

- Contours of the escalator highlighted by LEDs stripes underneath the escalator soffit.
- Soffit light stripes enable color changes and moving lights.
- Lighting extends from the bottom to the top of the escalator's underside without interruption.



#### More attractive architecture.

See how the 4th dimension of design can add to the attractiveness of architecture. Our escalator lighting options can do the same for your building.

#### Illuminated soffit cladding.

##### Function:

- Allows for a wide range of advertising possibilities.
- Maximizes the impact of an advertising message on escalator passengers.

##### Implementation:

- Integration of company logos, brand names or any other patterns into the soffit cladding and illuminated by LEDs from the inside.
- Changing and constant colors available in many combinations.
- Advertisements interchangeable.



#### Soffit spotlights.

##### Function:

- Create optical highlights, e.g. by illuminating the area below an escalator.
- Create a beautiful ambience in the entire building.

##### Implementation:

- Spotlights in the soffit arranged in various positions and quantities to illuminate the space under the escalator.
- Can be fitted to any kind of soffit cladding – in any individual way.



Traffic lights –  
let light  
lead the way.



#### Column traffic lights.

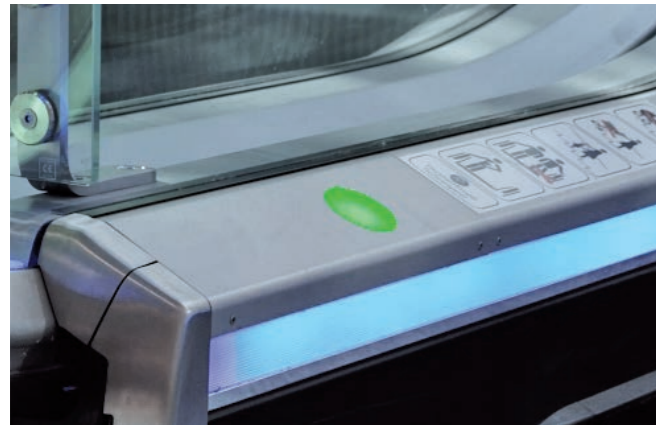
##### Function:

- Good visibility at eye level due to installation in a raised column.
- Useful advantage for escalator traffic.
- Indicate direction and readiness before a user reaches the escalator.

##### Implementation:

- Different colored lights and symbols for indicating direction and readiness.
- Several positions possible: left, right or both sides of the escalator.
- Several symbols available.





#### Inner decking traffic lights.

##### Function:

- Standard traffic lights for glass balustrades.
- Indicate direction and readiness of an escalator.

##### Implementation:

- Clearly visible LEDs installed on the decking profile.
- Red/green lighting, traffic symbols and design version available.
- No column needed.



#### Front skirt traffic lights.

##### Function:

- Standard traffic lights for a slim-line balustrade of an iwalk.
- Indicate direction and readiness before a user reaches the escalator.

##### Implementation:

- LEDs arranged underneath the lower part of the handrail.
- Red and green lights available.
- No column needed.



### Useful information for escalator users.

Traffic lights indicate to users the direction and availability of an escalator. Different symbols, signs or colors tell an approaching user that an escalator is running in the desired direction, in the opposite direction or temporarily out of order. Two-way traffic lights are used when an escalator operates in both directions and starts when approached from a specific direction.

#### Floor plate traffic lights.

##### Function:

- Nicely visible from different perspectives and in particular before a passenger stands on the escalator/moving walk.
- Improves accessibility, e.g. for people with impaired vision.

##### Implementation:

- Whole width of the floor plate covered.
- Brightness automatically adjusts to ambient brightness.
- Robust design for all climatic conditions and heavy-duty applications.

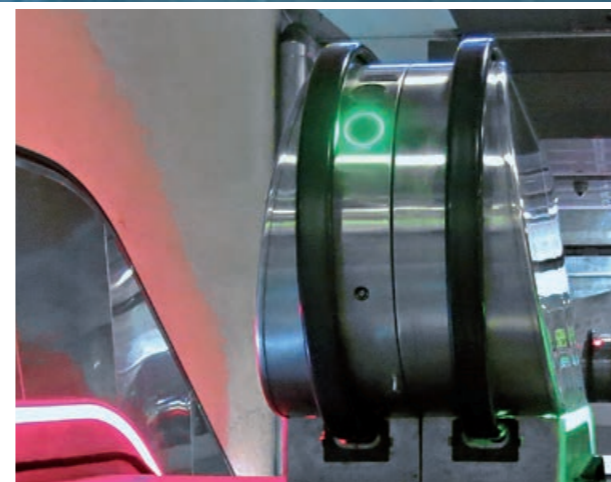
#### Traffic lights in newel.

##### Function:

- Standard traffic lights for metal balustrades.
- Indicate direction and readiness of an escalator.

##### Implementation:

- LEDs arranged on the front of a metal balustrade.
- Red/green lighting or traffic symbols available.
- No column needed.



#### Traffic lights in glass newel.

##### Function:

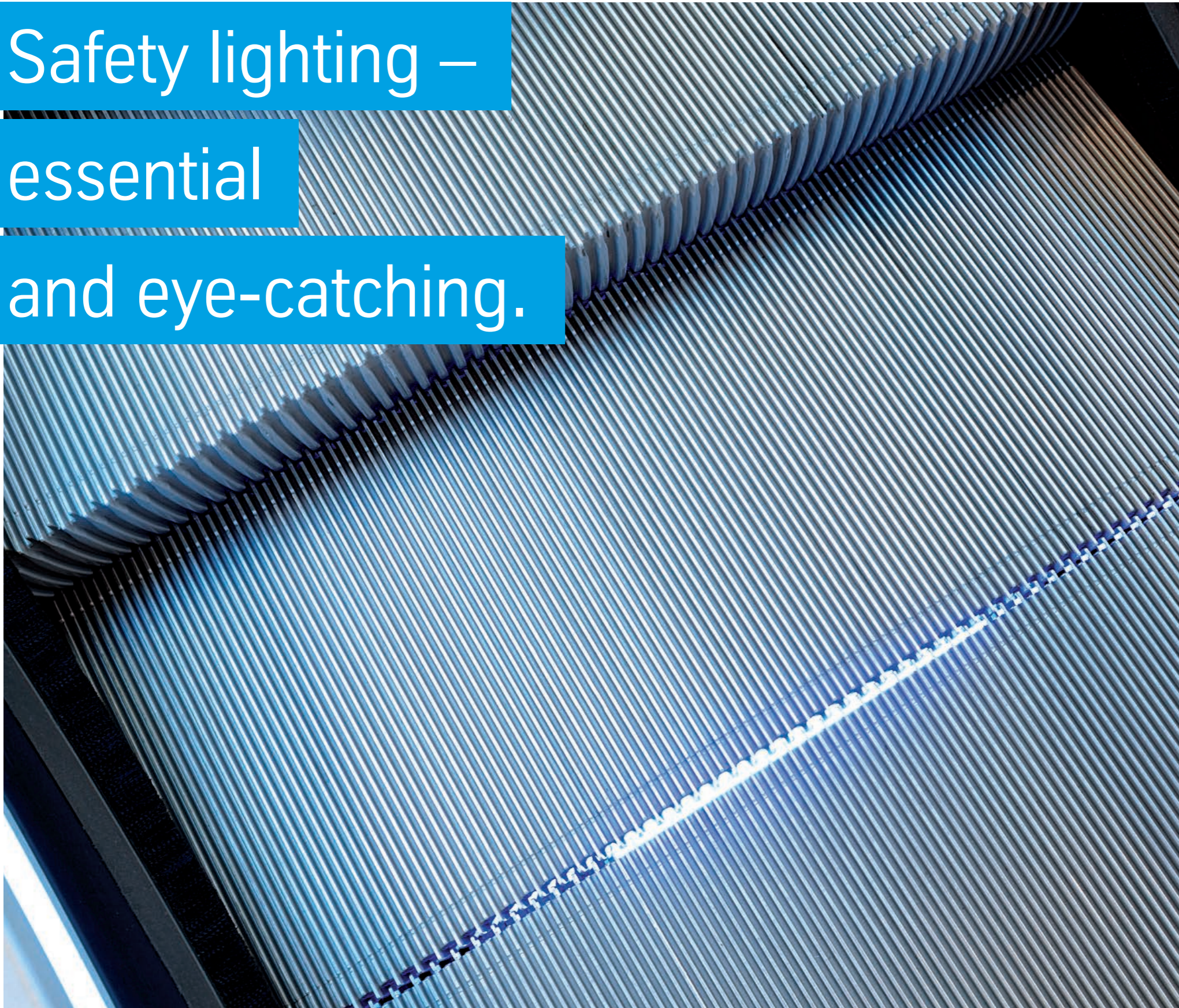
- Attractive design element.
- Useful supportive function for other traffic lights.
- Provides outstanding insights into the turning wheel of an escalator.

##### Implementation:

- Red and green colored lighting arranged in glass newel.
- Large surfaces ensure better visibility from all angles.



# Safety lighting – essential and eye-catching.



## Step gap lighting.

Function:

- Enhances passenger safety.
- Helps passengers entering the escalator to step onto the tread surface safely.
- Helps leaving passengers to identify the end of the escalator and avoid stumbling.

Implementation:

- LEDs clearly indicate the edges of the steps.
- Green or blue colored lighting available.



## Safety first on your escalator.

Safety lighting plays a key role in any escalator lighting scheme – simply because it increases users' awareness of where special care is needed to reduce the risk of an accident.

## Comb plate lighting.

Function:

- Makes potential danger spots more visible.
- Helps to prevent passengers from stumbling or getting trapped.

Implementation:

- Illuminates the transition from the fixed comb plate to the moving steps.
- Ensures at least 50 lux at the comb intersection line in case of insufficient ambient light (required by EN115).
- Also available as traffic lights.



# Lighting options – at a glance.

All the available lighting options are listed below. Thanks to the use of LEDs the lifetime of the white color option is >50,000 operating hours and of the color option >25,000 operating hours. All lighting options can be retrofitted.

## Decorative lighting at a glance

	Slim balustrade	Robust balustrade	Skirt band	Truss lighting	Ambient cladding	Soffit spotlights	Soffit light stripes	Soffit cladding
<b>Type/Color</b>								
White, RGB	■	■	■	■	■	■	■	■
<b>Status</b>								
Constant	■	■	■	■	■	■	■	■
Color changes	■	■	■	■	■		■	■
Moving lights		■	■	■	■		■	■
<b>Climate class</b>								
All climates		■	■					
Indoor	■			■	■	■	■	■
<b>Available in</b>								
Velino	■	■	■	■	■	■	■	■
Tugela		■	■	■		■	■	■
Victoria		■	■	■	■	■	■	■
Orinoco	■	■	■	■	■	■	■	■
iwalk	■	■	■					

## Traffic lights at a glance

	In floor plate	In inner decking	In front skirt	In newel	In glass newel	In column
<b>Type/Color</b>						
Red, green	■	■	■	■	■	■
One way		■		■		■
Oncoming traffic						■
<b>Status</b>						
Switch	■	■	■	■	■	■
Constant		■	■	■		
<b>Climate class</b>						
All climates	■	■	■	■	■	■
<b>Available in</b>						
Velino	■	■				■
Tugela	■	■		■		■
Victoria	■	■		■	■	■
Orinoco	■	■		■		■
iwalk	■		■			■

## Safety lighting at a glance

	Step gap	Comb plate
<b>Type/Color</b>		
Green, blue	■	
White, green, blue		■
<b>Status</b>		
Constant	■	■
Flashing		■
<b>Climate class</b>		
All climates	■	■
<b>Available in</b>		
Velino	■	■
Tugela	■	■
Victoria	■	■
Orinoco	■	■
iwalk	■	



# thyssenkrupp moves people – the future of urban mobility.

In 40 short years, we’ve become one of the world’s leading elevator companies with unique engineering capabilities, offering next-generation solutions like MULTI, the ropeless elevator, ACCEL, an accelerated people mover, and MAX, a cloud-based predictive maintenance service. Whether building a new state-of-the-art system or optimizing and modernizing existing ones, our solutions deliver crucial energy and time efficiencies, helping to address the challenges of urbanization and transform cities into the best places to live.



Sales of over **€ 7.2 billion**

**50,000+** employees

Figures for our Elevator Technology business

### A trusted partner

We support our customers throughout their project lifecycle, from the design to the end-of-life phase. Every step of the way, we strive to fully understand their needs and consistently deliver the safest, highest quality passenger transportation solutions, maintenance and modernization packages.

Through our internal technical support function, ITS (International Technical Services), thyssenkrupp trains its service technicians in a multibrand portfolio, enabling them to successfully service more than 1.2 million units under maintenance.

### thyssenkrupp – the diversified industrial group

engineering.tomorrow.together – three words that describe who we are, what we do, and how we do it. Driven by global megatrends such as urbanization and the need for efficient use of environmental resources, our global community of more than 150,000 colleagues works together with our customers to harness our engineering expertise and strive for technological and business solutions that satisfy the demand for “more” in a “better” way.

Find out more: [www.thyssenkrupp.com](http://www.thyssenkrupp.com)



One World Trade Center



Makkah Clock Tower / Source © SL Rasch

We provide smart and innovative products for a wide variety of applications:

- Passenger and freight elevators
- Escalators and moving walks
- Passenger boarding bridges
- Stair and platform lifts
- Customized service and modernization solutions



Mercedes Benz



thyssenkrupp Quartier