

**Mission unlimited.**  
**Velino escalators.**



**ThyssenKrupp Elevator (ES/PBB)**



**ThyssenKrupp**



Progress is when visions become reality. Whether you are planning a shopping mall, equipping a multifunctional congress centre or exploring new directions in airport design – Velino escalators are in

their element wherever people are moving up.

***WELCOME FUTURE***

**Some call it versatility.  
We call it Velino.**







**Velino Base.**  
**Perfection lies in reduction.**

Less is often more. The Velino Base is the standard Velino escalator. You can depend on its ability to transport any volume of pedestrian traffic day by day. It is tireless in meeting your requirements for technology, quality and functionality.

**Working everywhere:**

Market leaders are easy to recognise because you encounter them all the time. You'll meet the Velino Base wherever there's a demand for a reliable escalator system.

**In constant motion:**

Endurance is a decisive factor. What you stipulate for your projects is what you should also look for when choosing an escalator. The unique operational availability of the Velino Base takes you a big step forward. As an escalator with one of the world's longest working lives its features are built for the future even today.

**Proven in everyday service:**

You can listen to lots about escalators. Or you can look at the essentials. Dependability is at the heart of the Velino Base. Stability, robustness and functionality are key companions. Employment of new technologies is matter of fact.



**velino base**

The basis for working well together.



## Velino Xtra. The escalator that scales to your demands.

Your expectations of a stationary means of passenger transport will be met in full by the Velino Xtra. A wide variety of design variants and choice of technological extensions make it an escalator with built-in freedom of expression.

### Perfect styling:

Design is a question of personality. The visual features of the Velino Xtra leave all possibilities open. Numerous options are available allowing you to set individual accents where you desire.

### Convincing technology:

The formula for success is to have the best ideas to make a better escalator. Our complete high-tech programme is geared to making the Velino Xtra perfectly adaptable to your wishes.

### Unique all over:

Every building has its own character, depending on its purpose, the structural conditions and your personal preferences. You build to measure – and each time you'll find the Velino Xtra is made for you.

# velino xtra

Expandable into detail.

An exclusive view with perspectives.



The Velino Xtra blends into the environment without losing any of its originality.





Appearances matter.  
Moving eyes as well.

Beauty is content with superficial details. Style, in contrast, comes through the coherent composition of all facets. With Velino escalators you can look forward to selecting precisely the design features that complement your visual concept.

Striking:

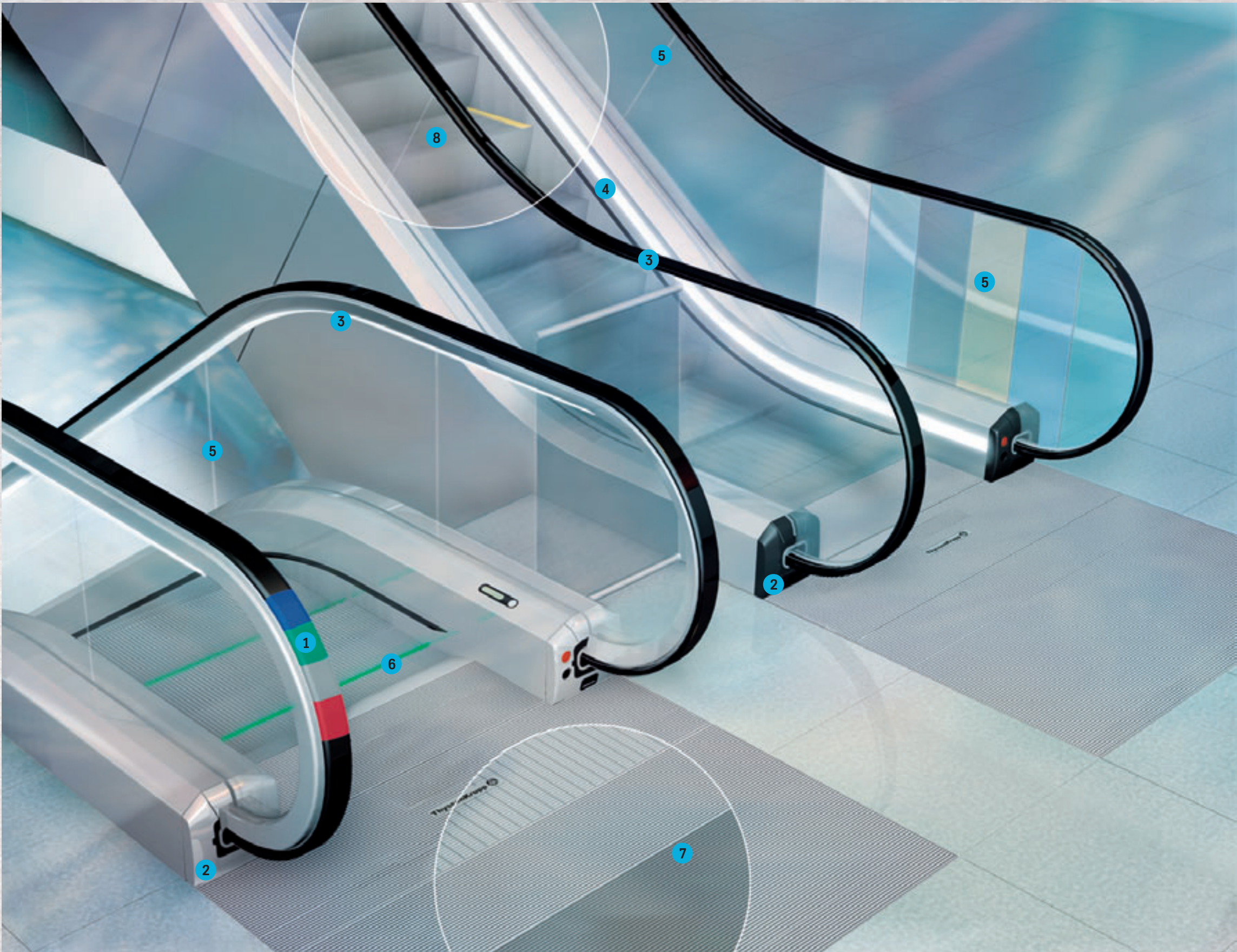
In your building all eyes will be on the escalators. A good reason why Velino looks just how you want it to.

Surprising:

Shining in the public eye. Numerous lighting variants are ready and waiting.

Comfortable:

Ergonomics is the ability of technology to adapt to its human user. Diverse components are available to harmonise your need for safety and comfort.

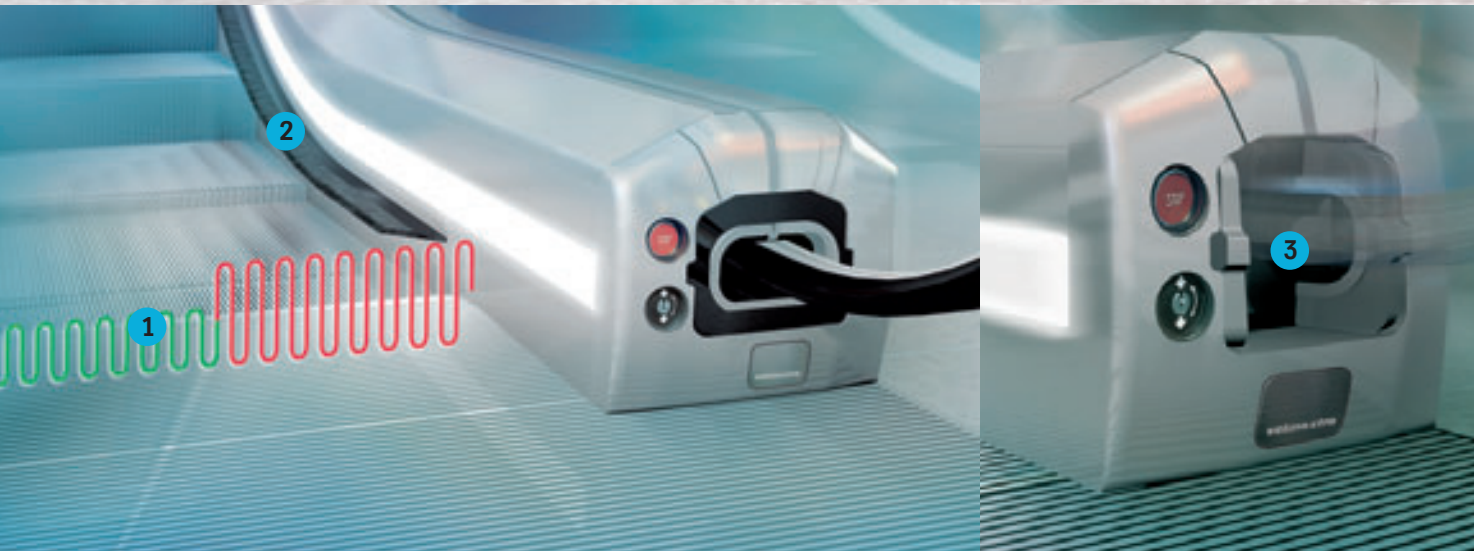


Luminescent examples of unusual design: soffit lighting and interior body lighting.

1. Eye-Catching handrails in matching colours.
2. Front skirt in different designs set accents.
3. Balustrade with integrated deflectors available with optional lighting. In another balustrade variant the handrails seem to hover above the balustrade.
4. The skirt band lighting illuminates the steps in a special way.
5. Choose your personal glass option: from ultraclear to bronze. With vertical or perpendicular glass joints.
6. Step gap lighting provides an extra degree of safety.
7. Differently structured floor plates in stainless steel or aluminium.
8. Steps in black or silver, with or without demarcation lines.



Even if you don't understand our technology, be sure it will understand you.



Velino escalators are programmed to work at the highest level. New technology developments guarantee an intelligent system characterised by long life, maximum safety and trendsetting high-end ideas. To put it briefly: We set the standards.

#### Safety first:

Outstanding user protection is provided by the dual circuit braking system, which brings the escalator to a safe halt irrespective of the travel direction.

#### Clever minds think ahead:

Equip your Velino with e-escalator technology. It allows you to monitor individual escalators or complete systems fast and conveniently via the internet.

#### Quick orientation:

The basic functions on the operating element are reduced to a minimum. Complete control of the escalator is in your hands.



1. The patented acoustic comb segment monitoring controls itself. In case of damage an online message is immediately sent to the controller room.

2. Skirt brushes increase safety by creating adequate distance between steps and skirt.

3. The handrail inlet guide is safeguarded by a flap system. Before anything can happen the Velino performs a controlled shutdown.

4. The multilingual display menu enables rapid access to functions for convenient remote or manual control.

e-escalator technology continually monitors all relevant data transmitted by sensors for analysis using in-house software.

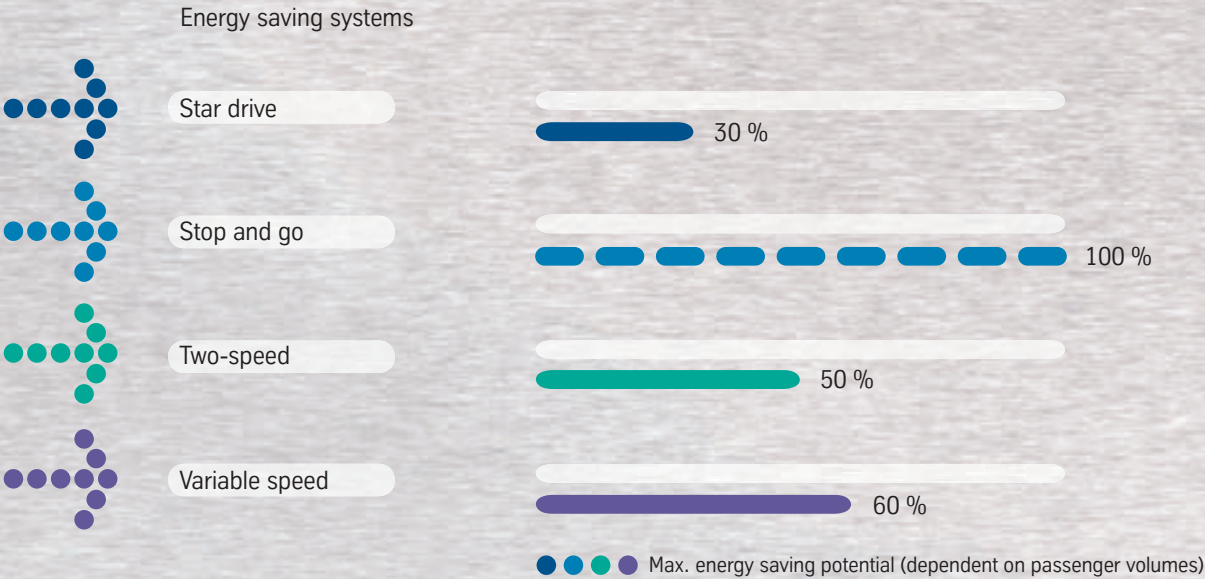


**e-escalator**

ThyssenKrupp is inventor of the Internet Escalator.



An ideal investment saves money without you having to do anything.



Don't save on the system. Let the system save for you. The Velino's long reliability and integrated energy saving functions are economic factors that pay dividends.

**Star drive:**  
The two-phase system with constant speed starts and idles in the economic star drive mode saving up to 30 % more energy than delta drive.

resumes as soon as a person enters the step area. This not only saves energy during prolonged periods of inactivity, but prevents material wear as well.

**Variable speed:**  
When the escalator is carrying a load the frequency converter accelerates gently from standby to nominal speed. The energy saving is approx. 60 %.

**Two-speed:**  
The pole change motor works with fixed parameters – no load and full load – giving energy savings of approx. 50 %.

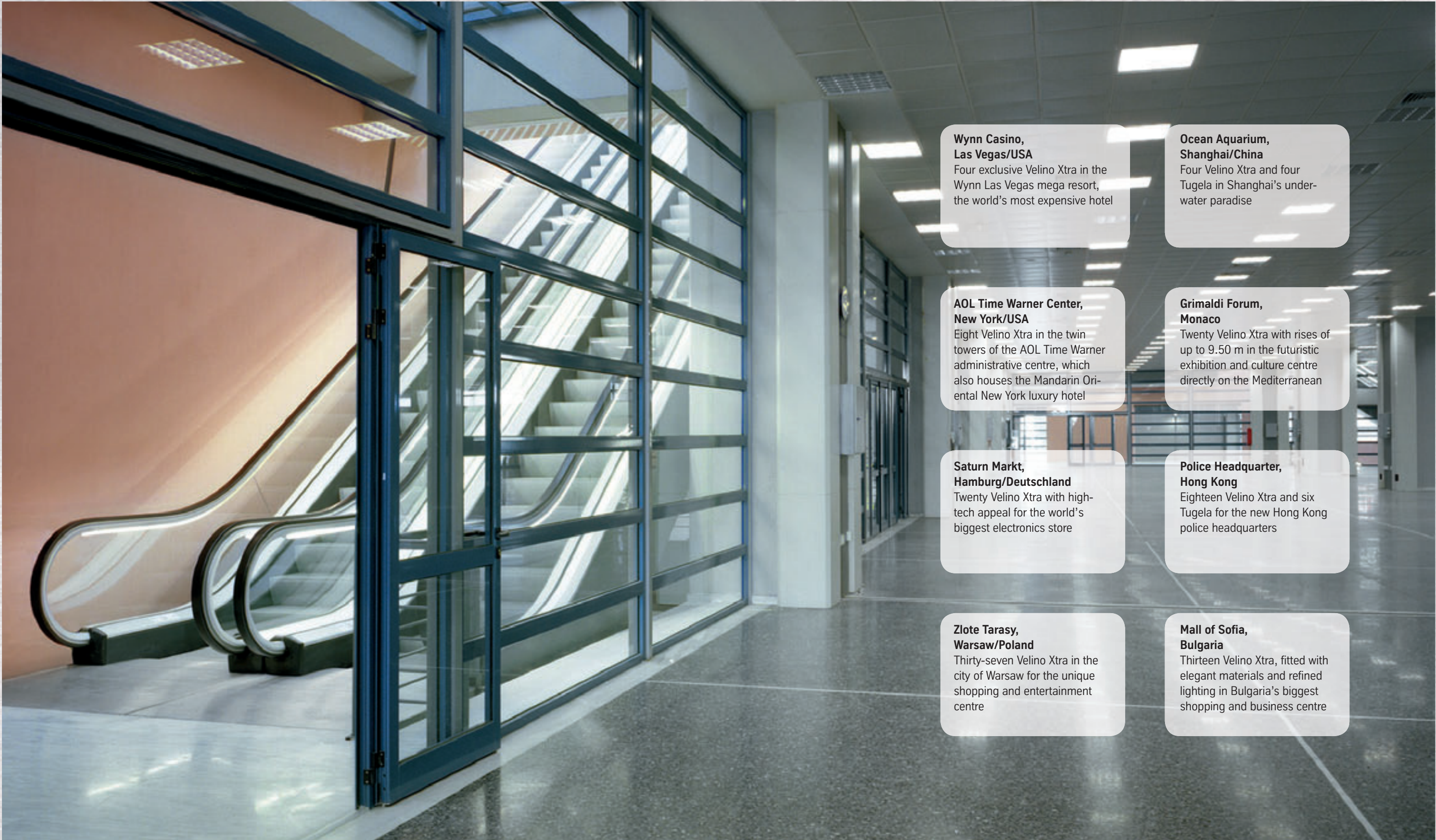
**Stop and go:**  
The escalator stops when carrying no passengers and





Inner values count.  
For buildings too.

Velino Base and Velino Xtra.  
In service worldwide.



**Wynn Casino,  
Las Vegas/USA**  
Four exclusive Velino Xtra in the  
Wynn Las Vegas mega resort,  
the world's most expensive hotel

**Ocean Aquarium,  
Shanghai/China**  
Four Velino Xtra and four  
Tugela in Shanghai's under-  
water paradise

**AOL Time Warner Center,  
New York/USA**  
Eight Velino Xtra in the twin  
towers of the AOL Time Warner  
administrative centre, which  
also houses the Mandarin Ori-  
ental New York luxury hotel

**Grimaldi Forum,  
Monaco**  
Twenty Velino Xtra with rises of  
up to 9.50 m in the futuristic  
exhibition and culture centre  
directly on the Mediterranean

**Saturn Markt,  
Hamburg/Deutschland**  
Twenty Velino Xtra with high-  
tech appeal for the world's  
biggest electronics store

**Police Headquarter,  
Hong Kong**  
Eighteen Velino Xtra and six  
Tugela for the new Hong Kong  
police headquarters

**Zlote Tarasy,  
Warsaw/Poland**  
Thirty-seven Velino Xtra in the  
city of Warsaw for the unique  
shopping and entertainment  
centre

**Mall of Sofia,  
Bulgaria**  
Thirteen Velino Xtra, fitted with  
elegant materials and refined  
lighting in Bulgaria's biggest  
shopping and business centre



# Ten good reasons for escalators and moving walkways from ThyssenKrupp.



1. Speed monitoring
2. Controller
3. Newel
4. Step
5. Balustrade
6. Skirt band lighting
7. Skirt
8. Handrail
9. Comb plate
10. Operating controls
11. Protection cover to reversing station
12. Tensioning station
13. Handrail inlet guide
14. Step run guard
15. Tracks
16. Supporting structure
17. Step chain
18. Handrail drive
19. Drive unit

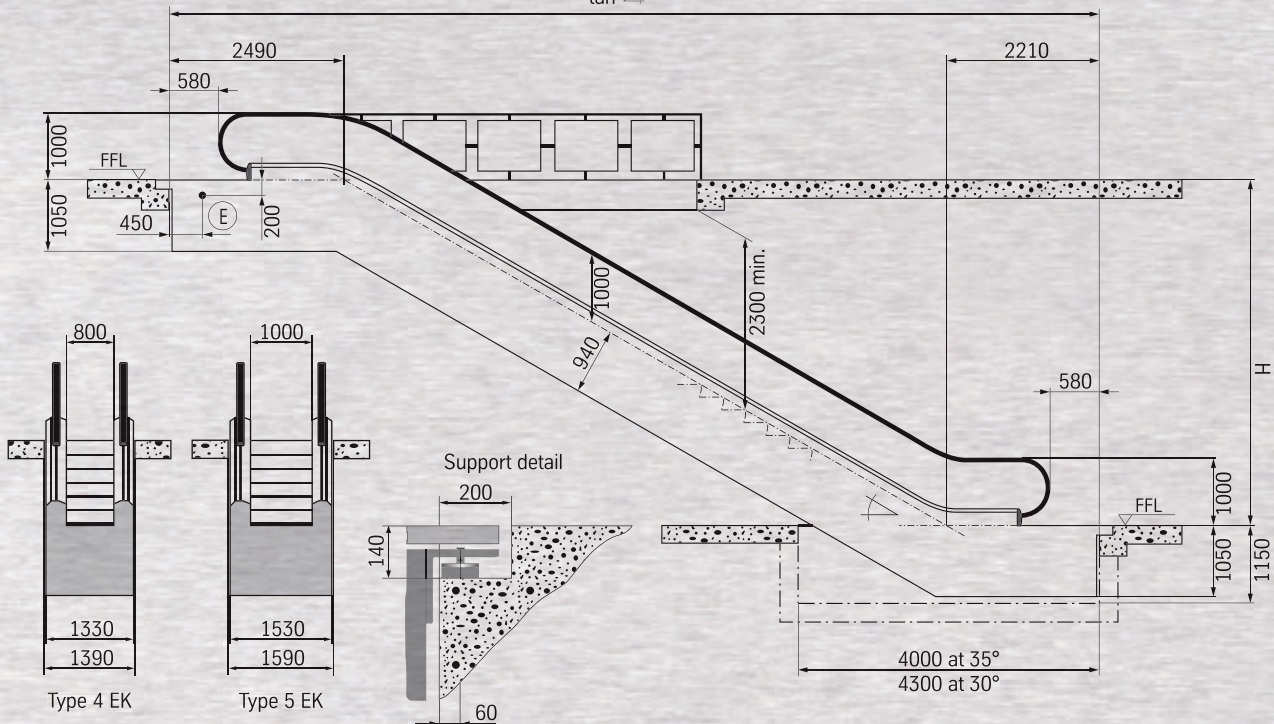
## Velino Base

Nominal step width (mm)	4 EK=800		5 EK=1000	
Continuous balustrade height (mm)	1000		1000	
Angle of inclination	30°	35°	30°	35°
Min. rise H (m)	2.85	2.85	2.85	2.85
Max. rise H (m)	6.00	6.00	6.00	6.00
Theor. capacity in pers./h v = Velocity v = 0.5 m/s	6750		9000	

## Velino Xtra

Nominal step width (mm)	4 EK=800		5 EK=1000	
Continuous balustrade height (mm)	1000		1000	
Angle of inclination	30°	35°	30°	35°
Max. rise H (m)	15	6	15	6
Theor. capacity in pers./h v = Velocity v = 0.5 m/s v = 0.65 m/s	6750		9000	

$$L = \frac{H}{\tan \alpha} + 4700$$



## Economy

Large flows of people are efficiently guided through your building. Innovative **energy saving systems** and **long life-cycle** reduce operating costs even further.

## Quality

High product quality through innovative technologies, precision **finishing** and premium materials reduces **wear and tear** and generates maximum **availability**.

## Design

Modern design combined with quality **materials** and a wide range of **lighting systems** and **outer cladding** boosts the charisma of your building.

## Service

**Online analysis** with error diagnosis, technical **support** or quick **replacement part provision** for older models too – we help you under all circumstances.

## Safety

Intelligent **safety sensors** and **online monitoring** from control centre fulfil highest international standards and provide permanent management of your escalator systems.

## Innovation

The unique **bus system** for the internet-escalator and countless international **patents** testify to our innovative status in design, safety and technology.

## Individuality

Numerous colour, material and finish variations allow **customised** solutions for adaptation to architecture or corporate identity.

## Internationality

A dense global **sales** and **service network** puts us always close at hand. International production sites guarantee **short delivery schedules**.

## Consulting competence

From **planning** to **assembly** to **service** – competent consulting partners are at your disposal on all issues at all times.

## Experience

Your **specialists** for escalators and moving walkways with decades of experience in development, production and assembly, with over 60,000 installed systems **worldwide**.



## **ThyssenKrupp Elevator (ES/PBB)**

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