

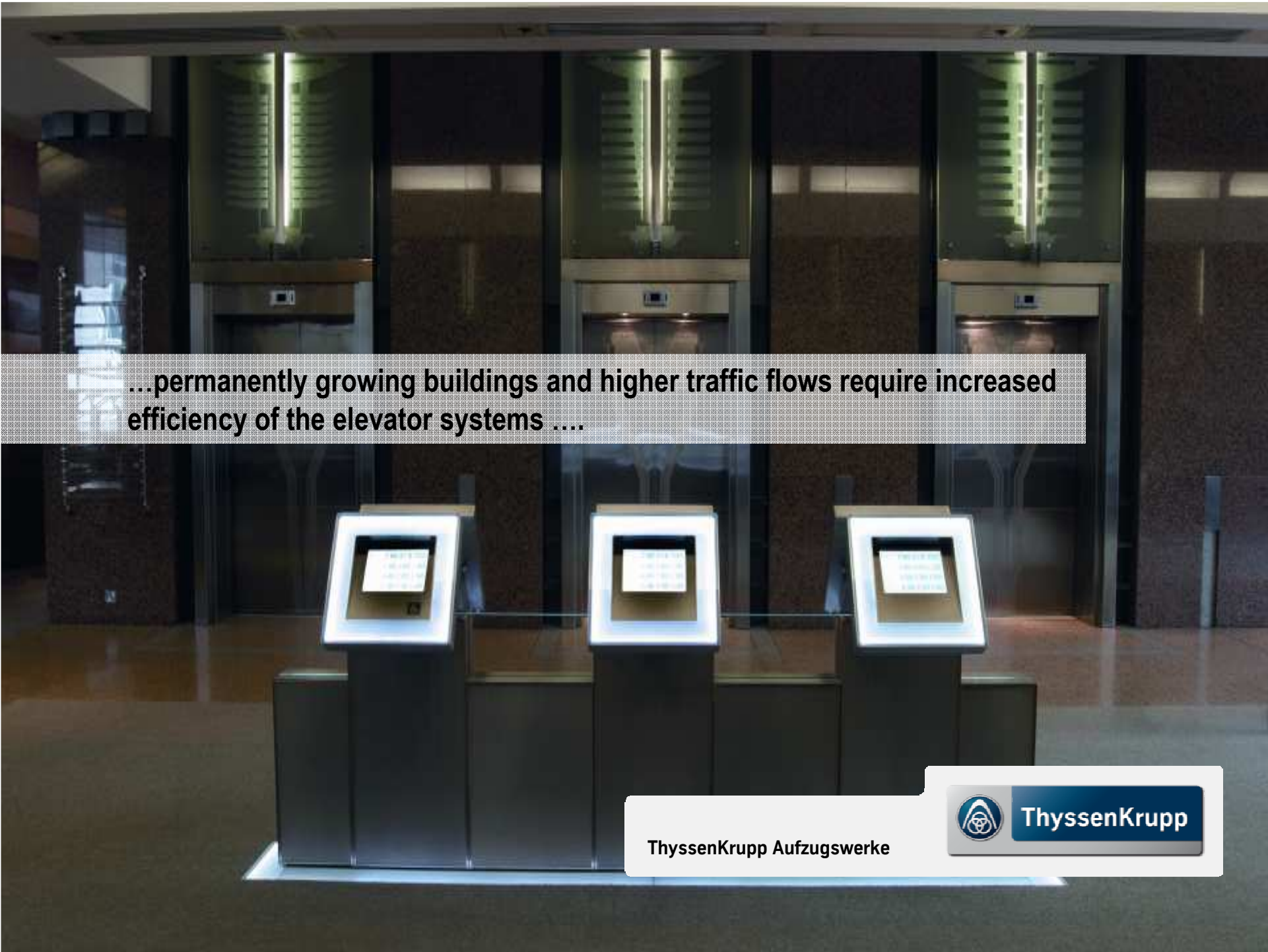
Destination Selection Control (DSC)



ThyssenKrupp Aufzugswerke



ThyssenKrupp



...permanently growing buildings and higher traffic flows require increased efficiency of the elevator systems

ThyssenKrupp Aufzugswerke



ThyssenKrupp

**... the Destination Selection Control DSC of ThyssenKrupp
offers elevator system a new dimension of efficiency.**



ThyssenKrupp Aufzugswerke



ThyssenKrupp

contents

- The basic concept
- Destination Selection Control
- Advantages
- Special functions
- Application area
- References



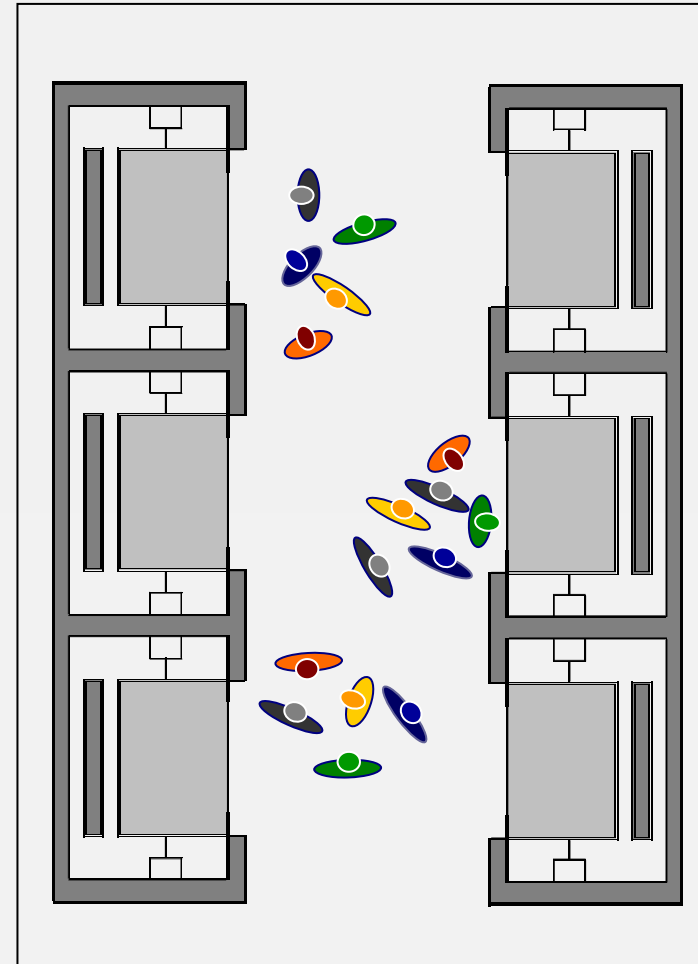
Conventional system

basic concept

Which elevator will come first?

How long do I have to wait?

How many floors will be approached?



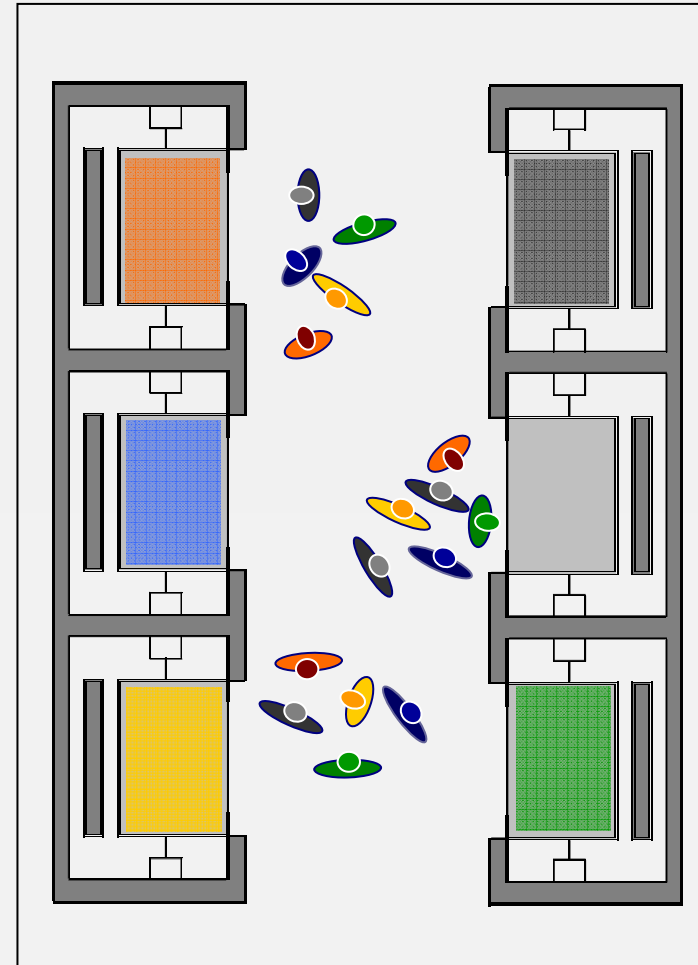
Destination Selection Control DSC

Higher capacity for elevator groups

An elevator will be assigned to the passenger!

The destination arrival time will be reduced!

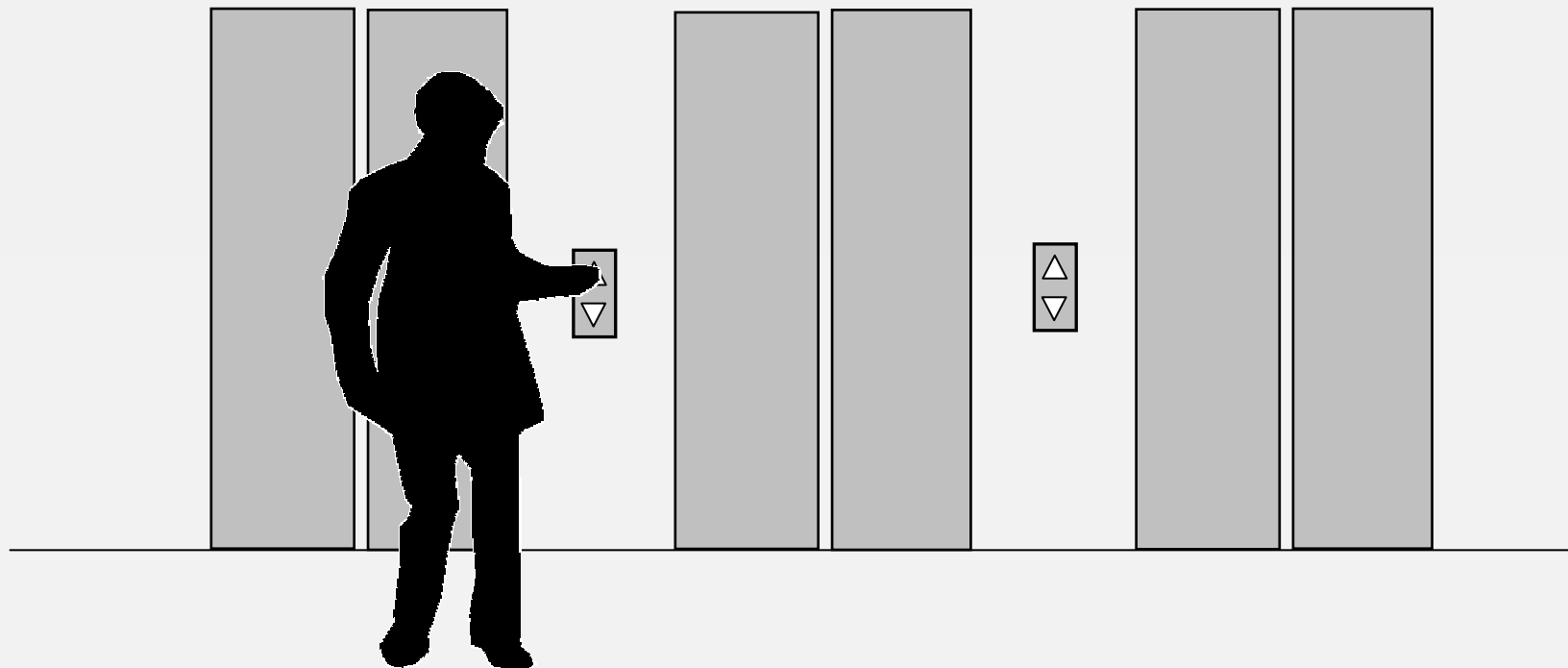
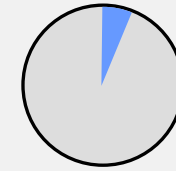
The number of intermediate stops is reduced



Conventional system

basic concept

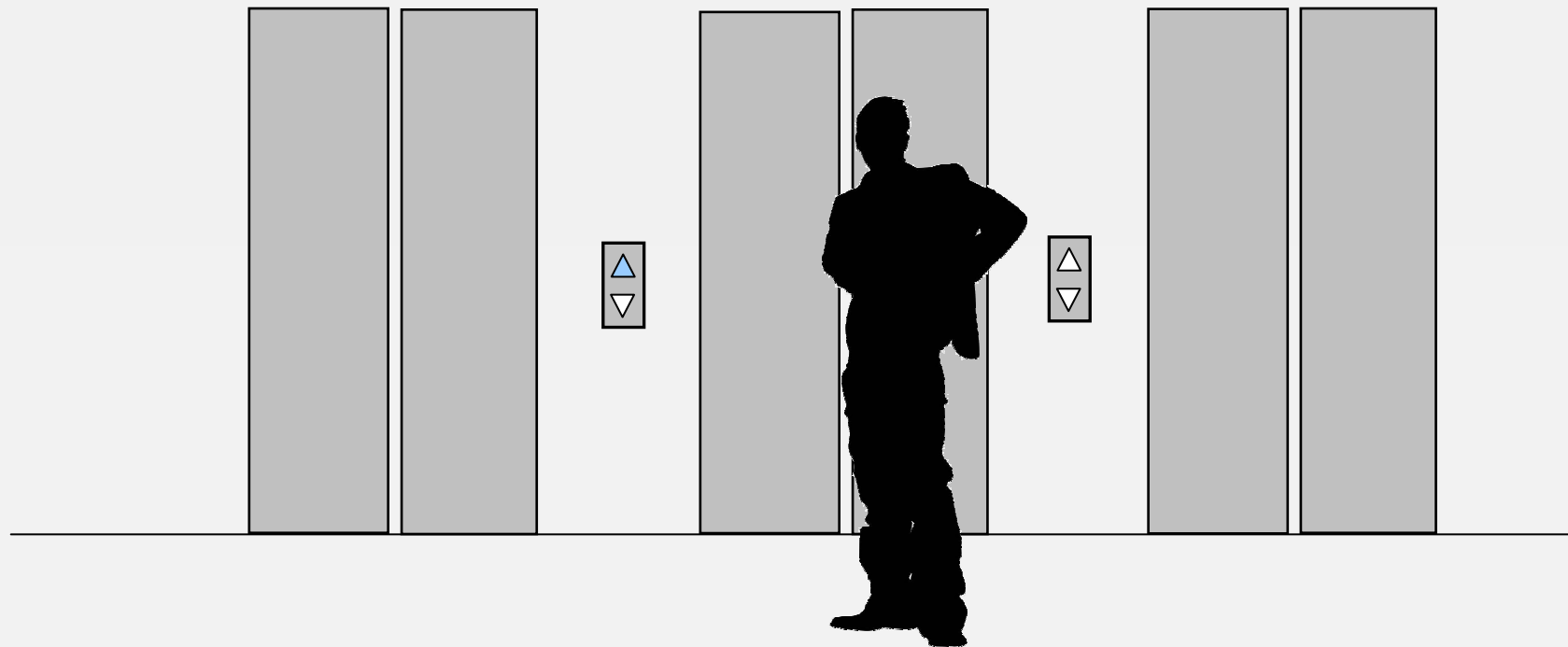
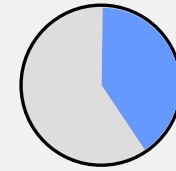
Step 1: The passenger enters his request on direction of travel at any hall call button.



Conventional system

basic concept

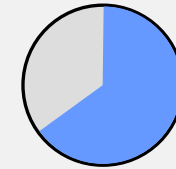
Step 2: The passenger is waiting in front of any elevator, but doesn't know if this one will be the first that arrives.



Conventional system

basic concept

Step 3 + 4: Choice of destination and travel to destination floor.



Once in the cabin, the passenger selects his chosen destination floor.

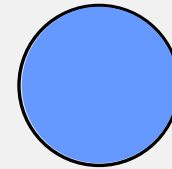
The next stop and the direction of travel are shown on a display in the cabin.

The passenger has to wait until all destination floors which are located under his destination have been served.

Conventional system

basic concept

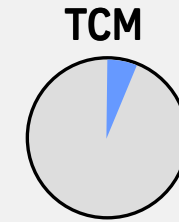
Step 3 + 4: Choice of destination and travel to destination floor.



Destination Selection Control DSC

Higher capacity for elevator groups

Step 1: Choice of destination: The passenger enters his final destination at a terminal outside the elevator.

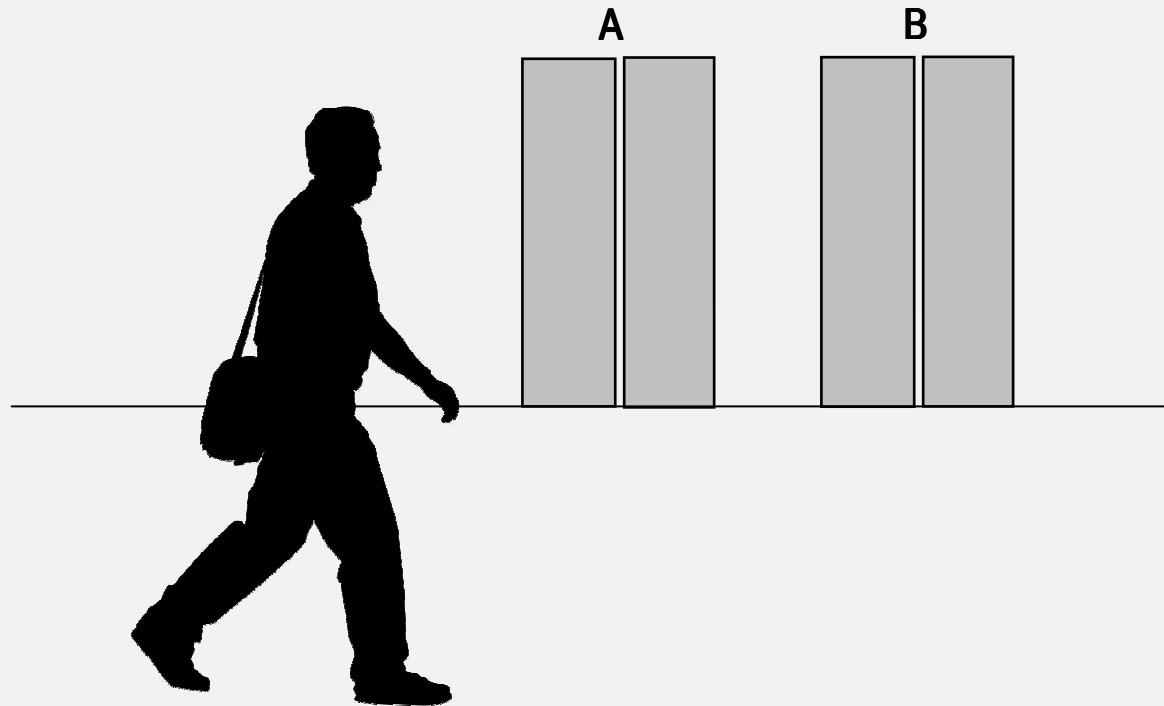
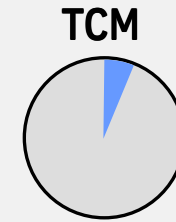
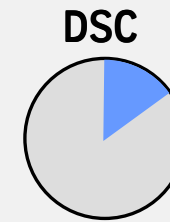


Destination Selection Control DSC

Higher capacity for elevator groups

The assigned elevator is shown to the passenger on the screen.

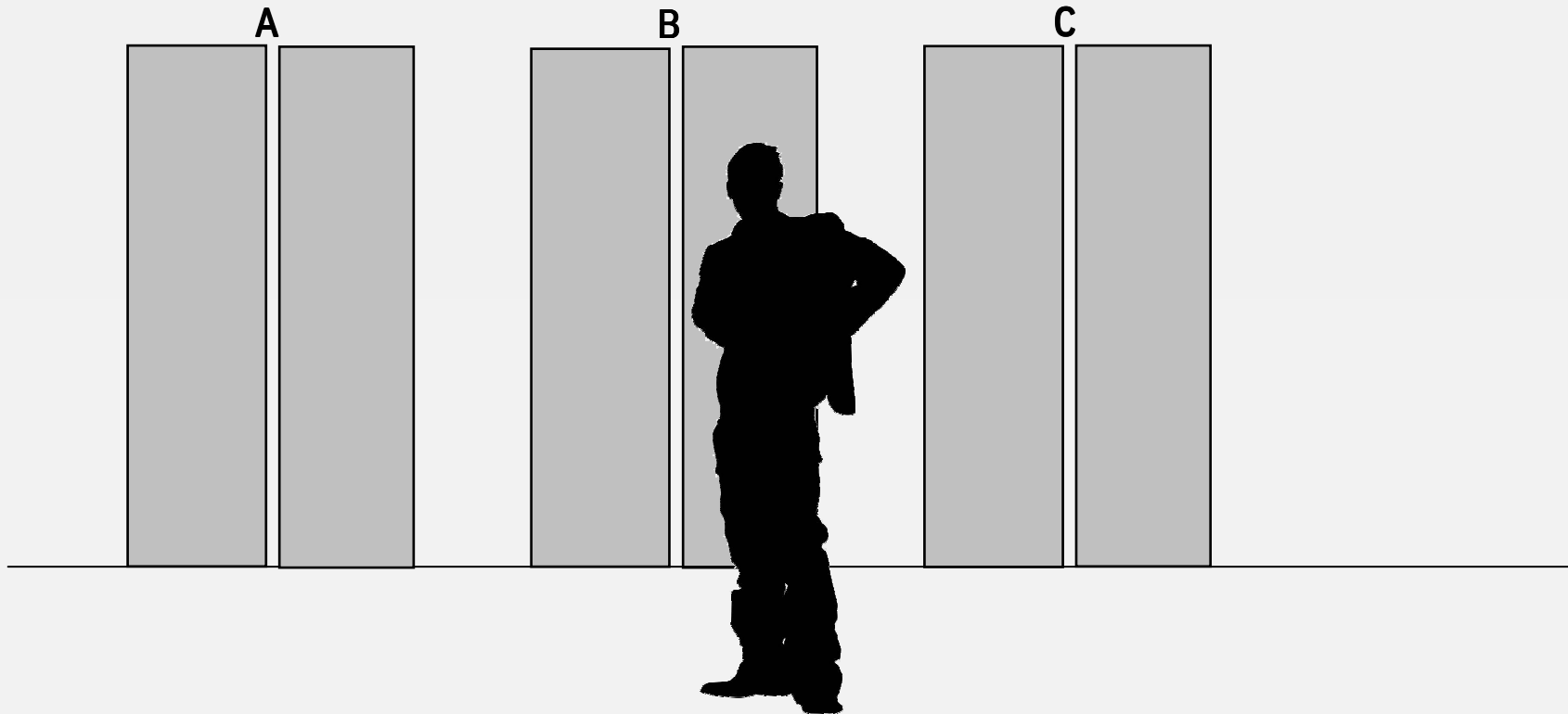
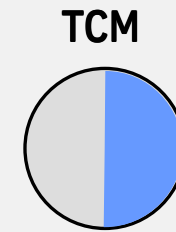
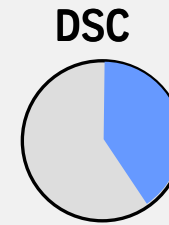
Step 2: Walk to assigned elevator.



Destination Selection Control DSC

Higher capacity for elevator groups

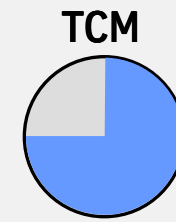
Step 3: The passenger is waiting in front of the assigned elevator.



Destination Selection Control DSC

Higher capacity for elevator groups

Step 4 + 5: Drive to destination floor



No more destination calls to be entered in the cabin.

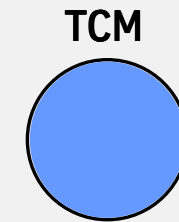
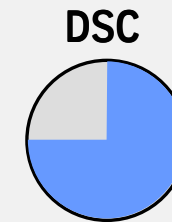
Only the assigned destinations and the direction of travel are shown in the cabin.

The elevator has less stops thanks to destination dispatch. The passenger arrives faster to his destination.

Destination Selection Control DSC

Higher capacity for elevator groups

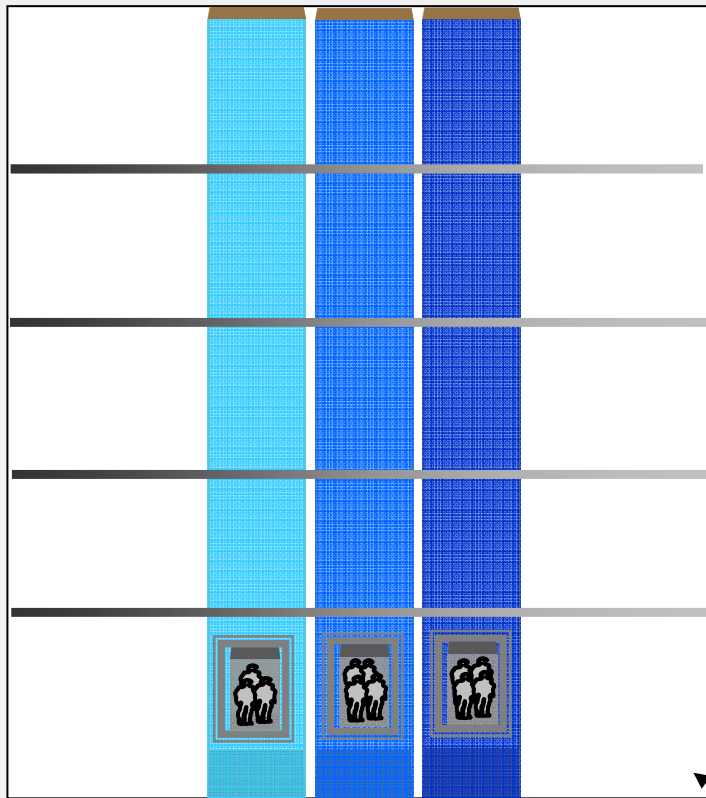
Step 4 + 5: Drive to destination floor



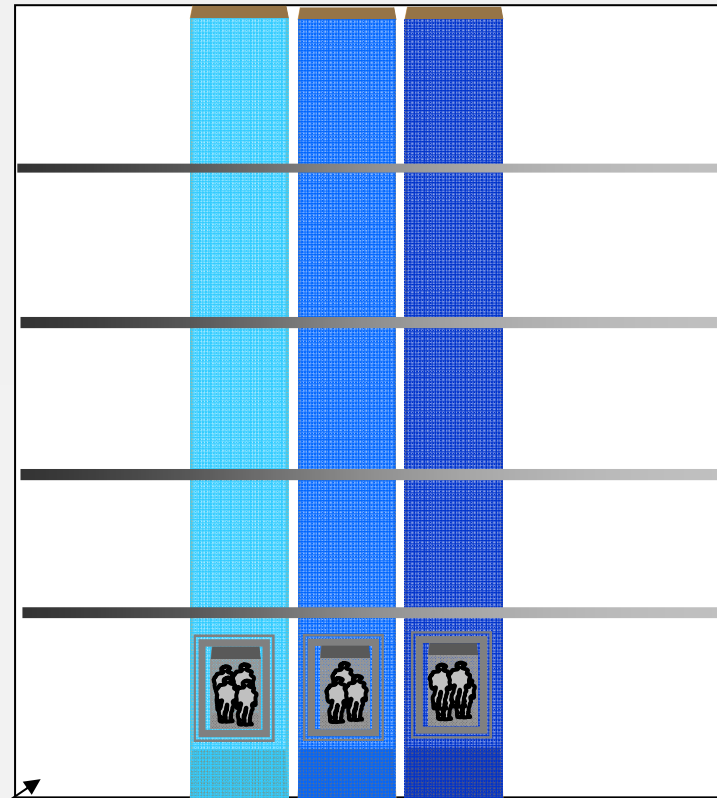
Destination Selection control DSC

Less Stops thanks to the use of DSC

without DSC



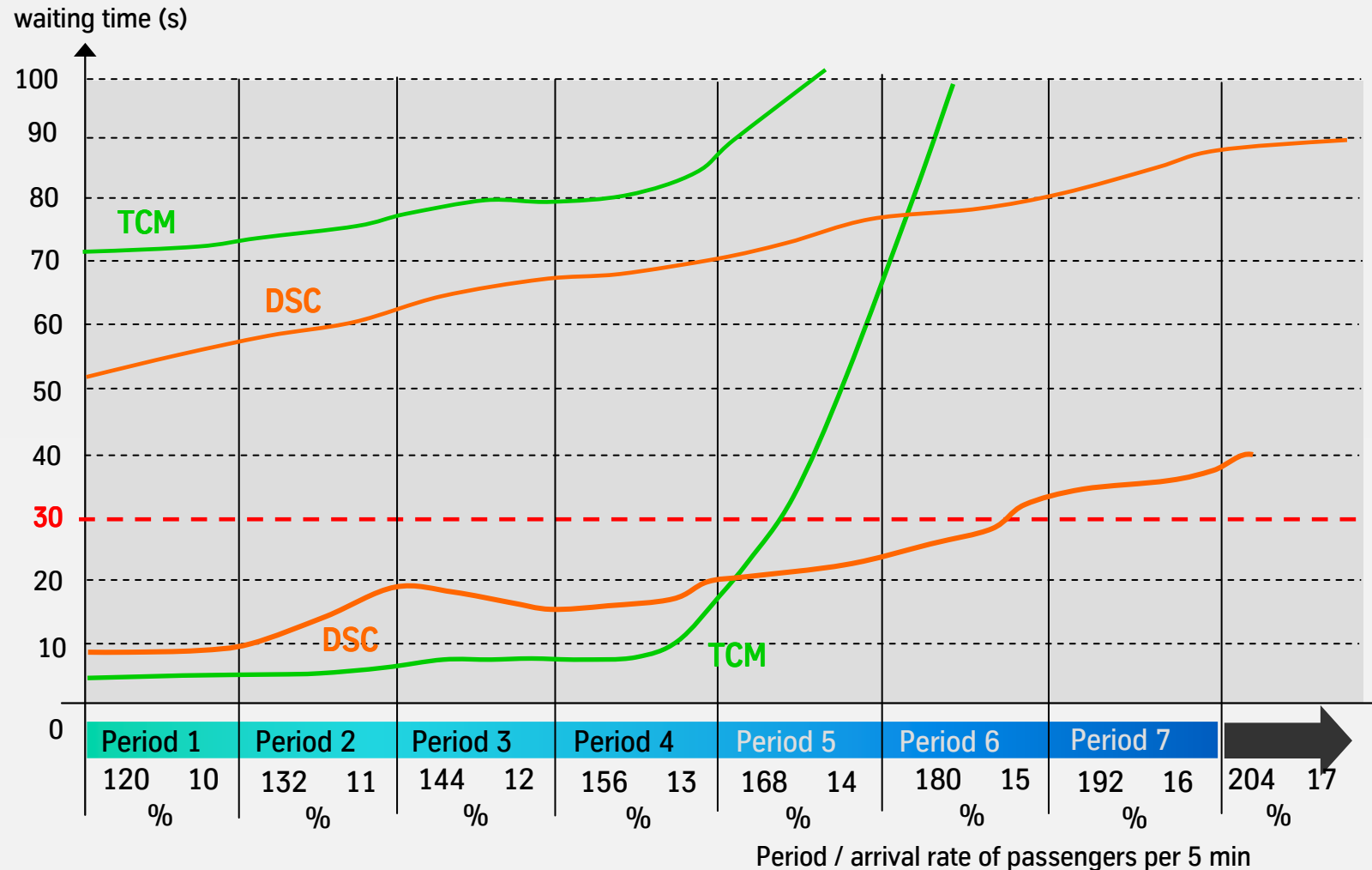
with DSC



Click here

ThyssenKrupp Destination Selection Control

Application example in an office building



Destination selection control DSC

Handling in two steps with Touch Screen (1)

1. Choice of the destination stop



Destination selection control DSC

Handling in two steps with Touch Screen (2)

2. Assignment of the elevator



Destination selection control DSC

Handling with Touch Screen

Exception in high-rise buildings: > Choice of zone



Destination selection control DSC

Position display in the cabin



Upon entering the cabin, the selected destinations and the direction of travel are shown on a display.

Destination Selection Control DSC

Special functions



- Release for special journeys
- Release of certain stops
- automatic destination choice
(The passenger only has to read the assigned elevator)

Destination Selection Control DSC

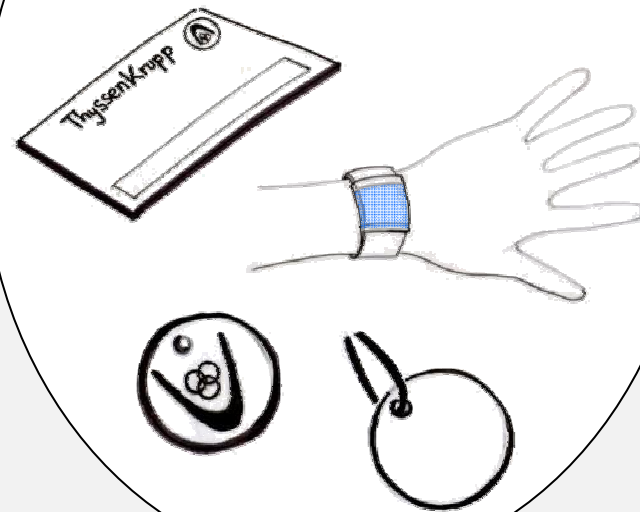
Special functions

Radio Frequency Identification:

- card/key/watch/... to card reader
- signal to car reader-system
(provided **by the customer**)
- signal to TK-control above interface
- signal to DSC terminals
- Opening of the holding positions at terminal

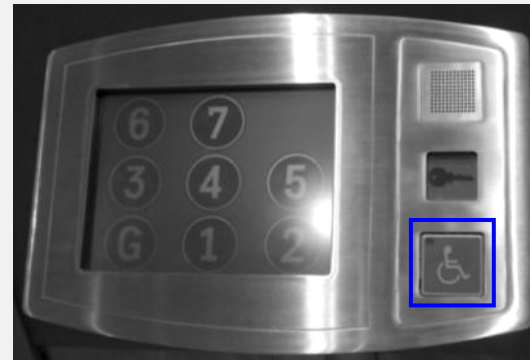


RFI-Command Enter
via card, chip, key or watch
with integrated chip



Destination Selection Control DSC

Special functions



Handicapped accessible service

- Empty cabin assigned to call
- Extended door opening time
- Misuse protection due to identification system
- Without identification system: Code-Entry

Destination Selection Control DSC

Special functions

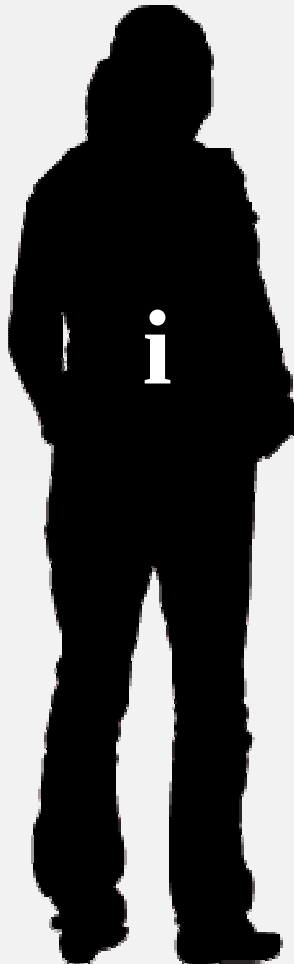


VIP- special journey

- Enter priority call
- Empty cabin assigned to call
- Misuse protection due to identification system
- Without identification system: Code-Entry

Destination Selection Control DSC

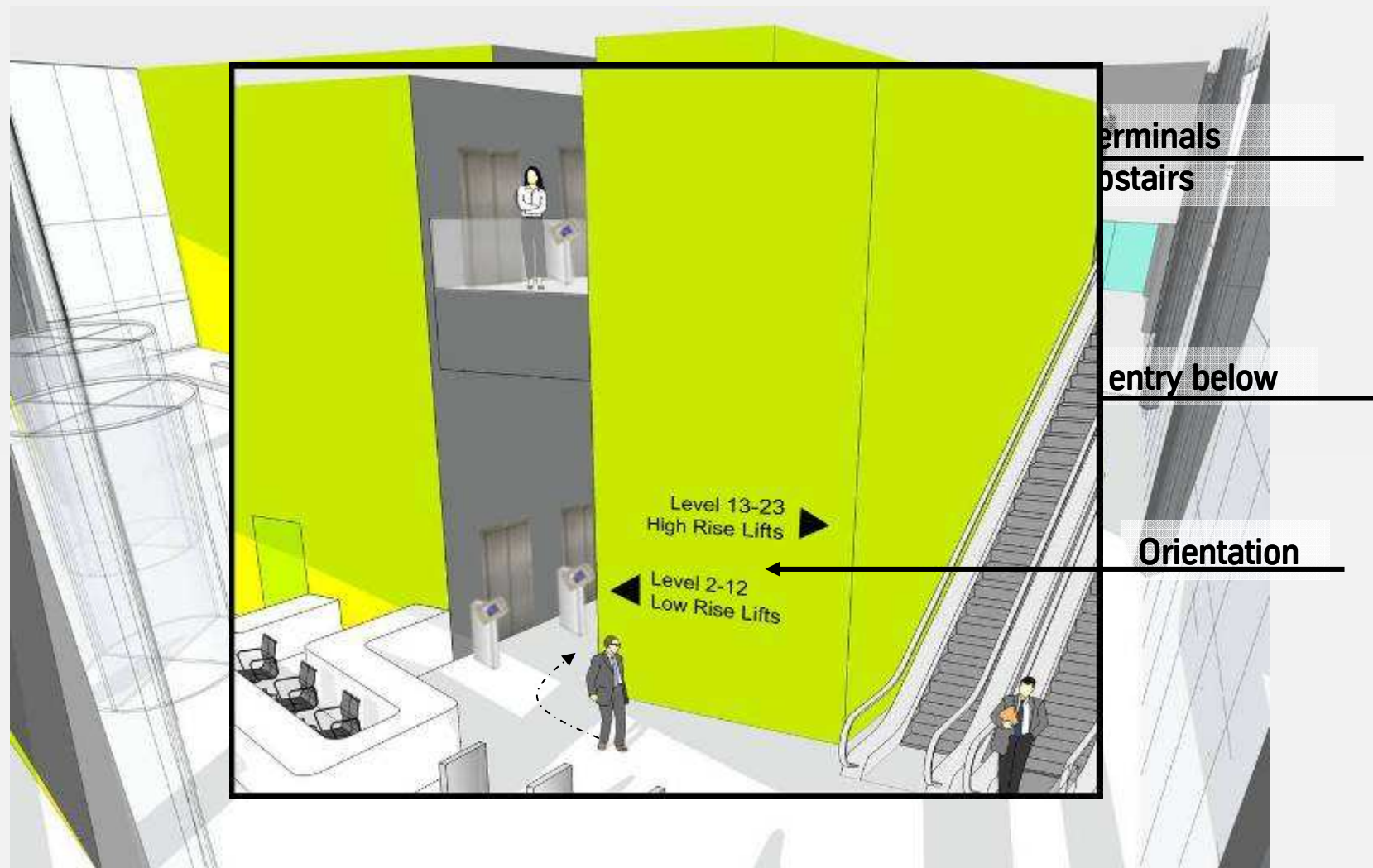
Special functions



Assistance

- Display of the assistance functions

Positioning of the DSC-Terminals



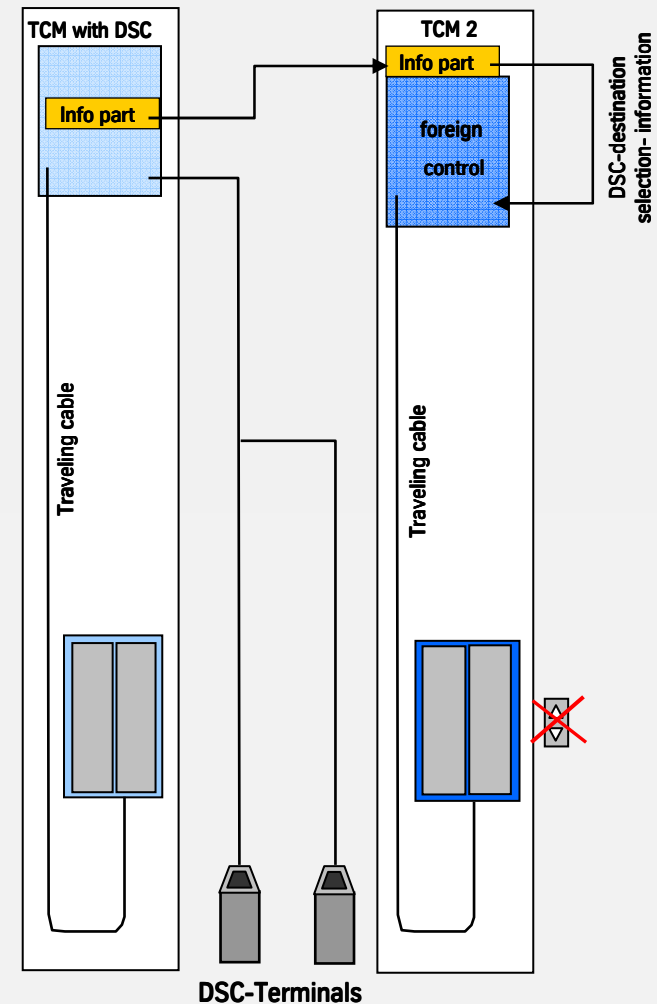
Destination Selection Control DSC

Special functions – DSC Overlay

The possibility of ThyssenKrupp Aufzugswerke to integrate the Destination Selection Control in elevator groups with other technology.

Advantages of DSC – Overlays:

- Already after the modification of only 1 elevator in one elevator group to TCM with DSC (Selection Control) it is possible to transfer the destination selection functions on all other elevators, which should run in the destination selection
- Destination selection function will be integrated in elevator machines with other technology, independent from their Signal transfer systems.



Destination Selection Control DSC

Example for the display versions

Free-standing pillars:

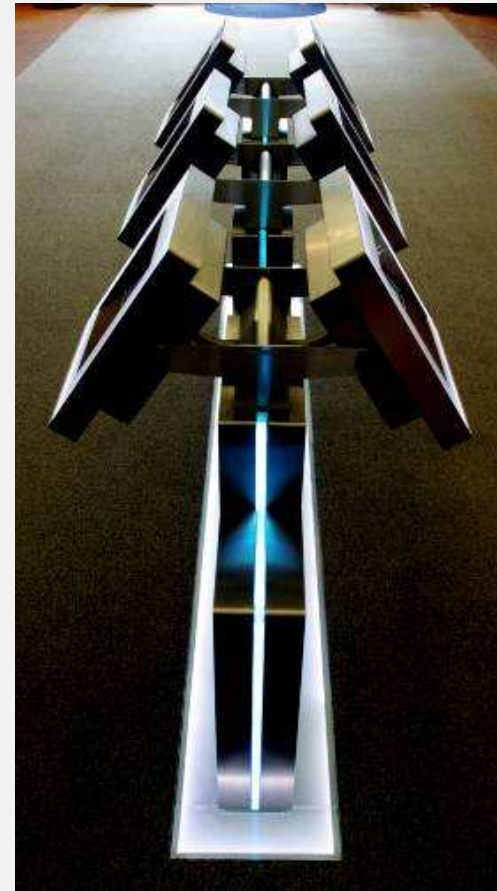


Destination Selection Control DSC

Example for the display versions

Free-standing pillar groups:

covered card reader
provided by the
customer



Destination Selection Control DSC

Example for the display versions

Operation control panel at the wall:



Touch-Screen
recessed in an
stainless steel
panel



Front panel can be
designed to the
customer's liking

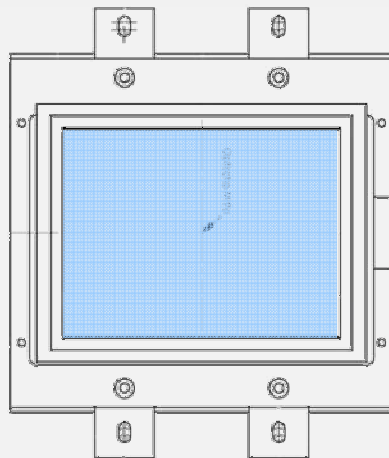
Destination Selection Control DSC

Example for the display versions

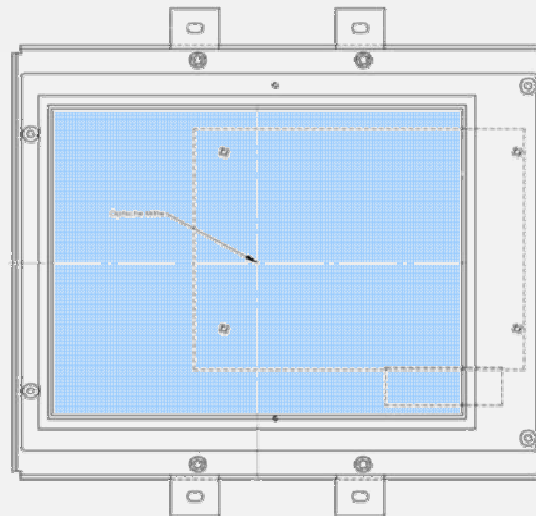
Displays in three sizes:

- 5,7" diagonal (111 x 83,5 mm), 320 x 240 Pixel, 16 Colors
- 10,4" diagonal (211 x 158 mm), 640 x 480 Pixel, 256 Colors
- 15" diagonal (304 x 228 mm), 1024 x 768 Pixel, 65.536 Colors

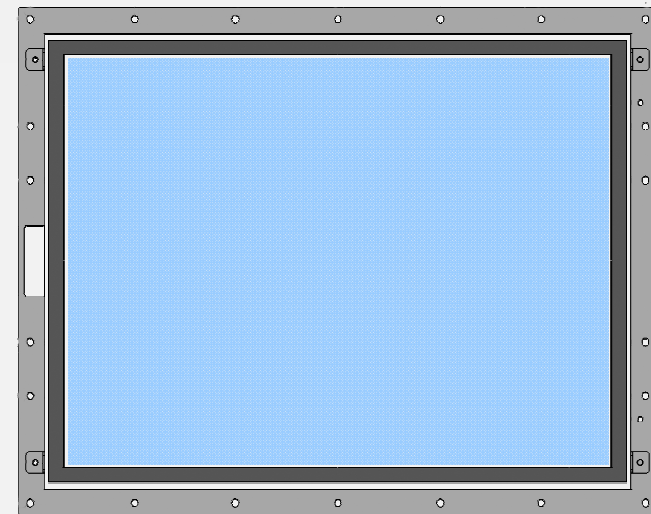
5,7 Inches



10,4 Inches



15 Inches



Destination Selection Control DSC

Extraction of 33 national and 80 international Reference projects with DSC.
Overall more than 600 installed elevators :



References in Germany

University Stuttgart

K1: Group of 6 elevators and 12 stops, since February 2002

K2: Group of 6 elevators and 12 stops, since September 1998



References in Germany

“Dreischeibenhaus” Düsseldorf

Group of 6 elevators



References in Germany

BMW / München

Group of 6 elevators and 21 / 24 landings, since 2005



References international

Broadgate office building London, United Kingdom

Group of 4 elevators and 8 stops, since January 2002



References international

Ropemaker Place London, United Kingdom

Transfer floors > Display of the following elevator in the cabin

Group of 17 elevators

Speed gate Operation > Assignment of an elevator directly at the entrance of the turret



References international

Tornado Tower Qatar, Saudi Arabia

Transfer floors > Display of the following elevator in the cabin

Group of 15 elevators

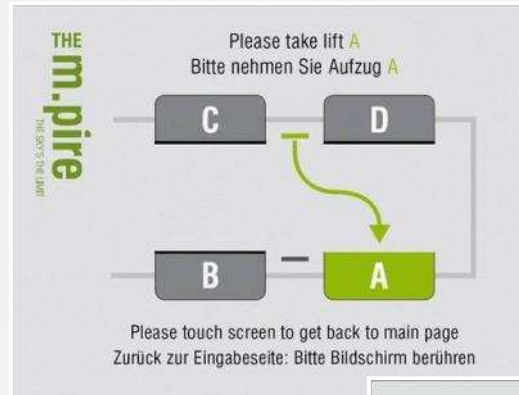
Speed gate Operation > Assignment of an elevator directly at the entrance of the turret



References international

Skyline Tower Munich, Germany

19 elevators, 4 of which are equipped with Destination Selection Control with 23 stops

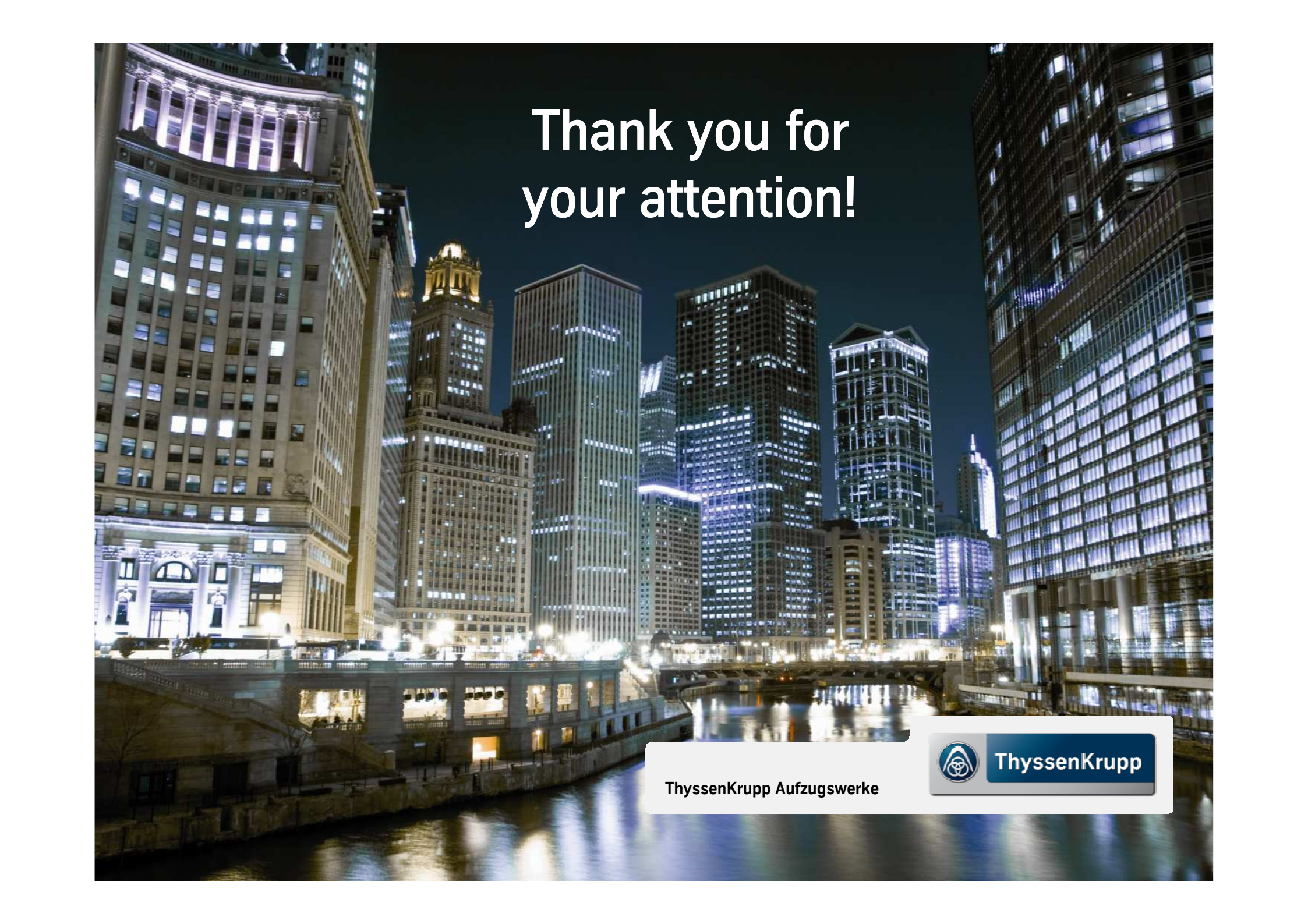


References international

London Wall 125, London United Kingdom

Group of 10 elevators





Thank you for
your attention!

ThyssenKrupp Aufzugswerke



ThyssenKrupp