

Elevator Technology

evolution

Low- to mid-rise elevator



thyssenkrupp





engineering.
tomorrow.
together.

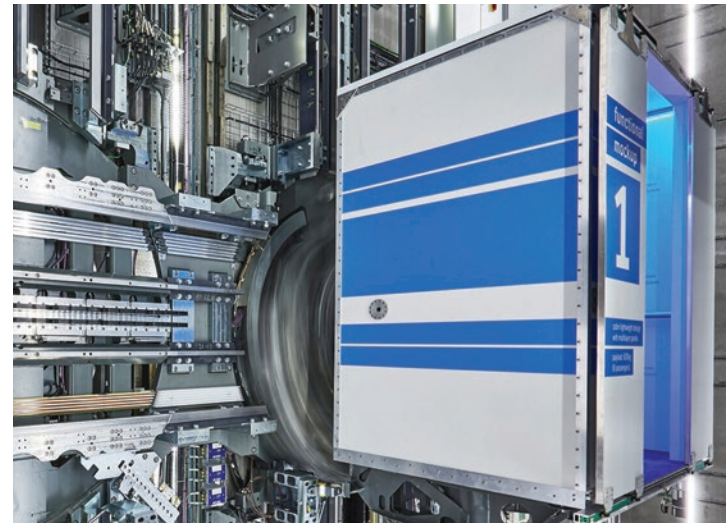
Making cities better.

Half of the world’s population now lives in cities. And urban populations are expected to grow by another 2.8 billion people by 2050.

To meet changing resident and business demands, cities need to adopt efficient urban planning and infrastructure development. They also need to create solutions for keeping people mobile in the midst of rapid growth.

As your urban mobility leader, thyssenkrupp Elevator is reshaping the elevator industry and transforming cities. We’re constantly evolving, with new products like MULTI, the first rope-less and horizontally moving elevator and MAX, our predictive maintenance solution.

To help customers and cities grow, we introduce evolution. It’s a low- to mid-rise elevator that combines safe and reliable performance, energy-efficient features and a hassle-free installation.



MULTI: our award-winning multidirectional elevator

At thyssenkrupp Elevator, our aim is to make cities the best ever places to live: to move people safely, comfortably and efficiently, today and tomorrow.

We do this by intelligently applying existing technologies and developing next-generation solutions – working closely with you to advance an industry that moves more than 1 billion people per day, worldwide.



MAX: real-time predictive maintenance

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Choose evolution.

Don't buy more than you need.

You know the routine. You need an elevator for your low- to mid-rise building. But it seems like there are always limitations, compromises or added costs from unwanted features.

These could be speed and capacity limitations, or complex workarounds leading to additional construction, longer schedules and frustration.

With evolution, you'll choose a traction machine room-less (MRL) model based on travel, performance, features and cab options.

We help make your choice easy.



evolution 100

This value-driven low-rise elevator includes all the essentials.



Travel
Up to 22860 mm



Max stops
10



Speed
1.02 m/s



Capacity
953 – 1588 kg

evolution 200

Our low- to mid-rise elevator travels farther, faster and has greater cab weight allowance.



Travel
Up to 106680 mm



Max stops
35



Speed
1.02 – 3.05 m/s



Capacity
953 – 2268 kg

You've got options
and flexibility.

We've designed an MRL elevator for up to 35 stops that's not only competitive, it's better. Or if you prefer a model that covers buildings up to 10 stops, designed to give you what need – you're covered.

You don't have to sacrifice size for speed.
You can have a 2268 kg capacity elevator and still go 3 meters per second.

You get an extra safe elevator without paying extra.
Our auto-rescue feature, which prevents passengers from being trapped during a power outage, comes standard.

You get a controller that fits into an 216 mm door jamb.
There's no need for a control closet, which means one less thing to build, unless your jurisdiction requires a machine room.

You don't have to waste space.
Using belts means our equipment uses a small hoisting machine and therefore requires less space.


You get a super quiet ride.
Our design makes it the industry's quietest, inside and out.

You get a hassle-free installation.
No crane needed and everything fits into the hoistway.

You can gain LEED credits.
Material and Resources credits, that is. We have material transparency certifications, declarations plus a regenerative drive that saves energy.



→ The controller is located in the door jamb at the top landing unless your local jurisdiction requires a control closet.



We designed solutions
for everyone.

Hey architects...

Stop stressing over elevator space. We've got you covered.

When we say machine room-less, we mean it. Literally everything fits into the hoistway.

- It has belts, so major components like the machine and sheaves take up less space. You've got more room to design that masterpiece.
- Our elevator is supported from the guide rails — so no more overhead steel or beam pockets. Scratch that off your list.
- The controller is built right into the door jamb. So don't worry about building that controller closet or machine room.

Your lobby design doesn't have to stop at the elevator door.

- evolution has lots of design choices for your cabs.
- Each pre-engineered cab design meets ASME A17.1 code.
- If those don't work, our 200 model lets you choose custom finishes, even heavy ones. Design with granite, marble, glass, barn wood — you name it.

Hey building owners...

Just because it's for low- to mid-rise buildings does not mean you can't get some high-quality features.

This elevator uses belts, not ropes. It's quiet and doesn't have jerky stops and starts.

- Belts are better. They weigh less than steel ropes, so the major components don't have to move as much weight, making them smaller and lighter.
- Shhh... this elevator car is super quiet, just 50 decibels — like a conversation at home after the kids are in bed.
- It's all about suspension and a finely-tuned electronic drive that gives you a smooth, smooth ride.

You really get more for your money. These advantages are standard in both evolution 100 and 200.

- We've got the power. Our auto-rescue feature means tenants won't get stuck between floors in case of power failure.
- Regenerative drive captures unused energy produced by the elevator and feeds it back in your building grid. We'll throw that in, too.
- MAX, our predictive maintenance solution, can lower your elevator downtime by up to 50 percent. Tenants will be thankful.

Hey contractors...

You don't need to dedicate so much time to getting your elevators installed. And since time is money, you can put your checkbook away.

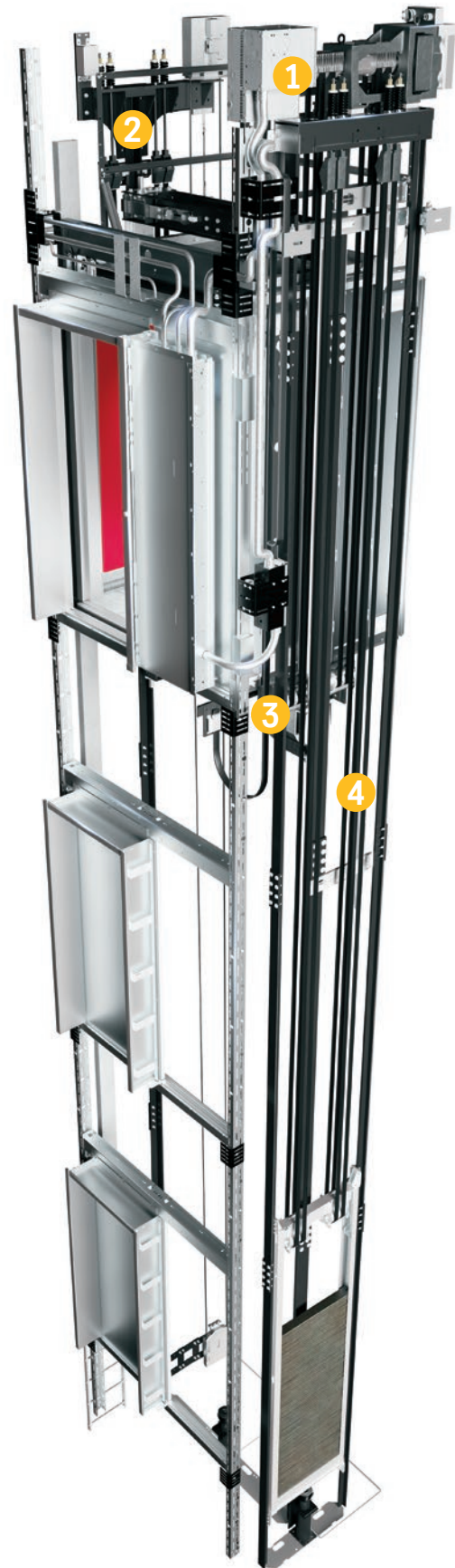
evolution has a simple design for a simple installation. So go ahead and accelerate your schedule.

- Everything you need arrives at the job site in a single shipment, crates sequentially ordered. Even the electrical disconnects. How easy is that?
- It's an MRL. It truly is. All the components fit in the hoistway.

- The controller is in the door jamb at the top landing.
- It's designed so you can install the roof early. We won't need to use your crane.
- You don't need remote runs of wires from the elevator machine to the controller.
- The elevator supports itself. No need for overhead support steel.

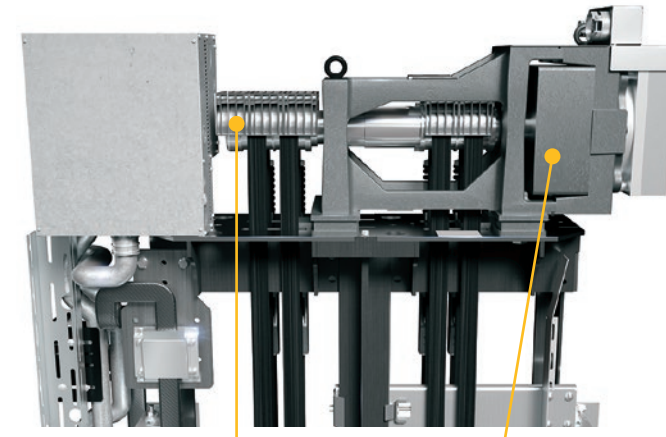
This elevator is designed for you.

Count on safety, reliability, energy efficiency and strong performance.



1 Machines

Our machines transport elevators up to three meters per second with evolution 200, and one meter per second with evolution 100. There's no machine room, so you have more leasable building space.



Sheaves

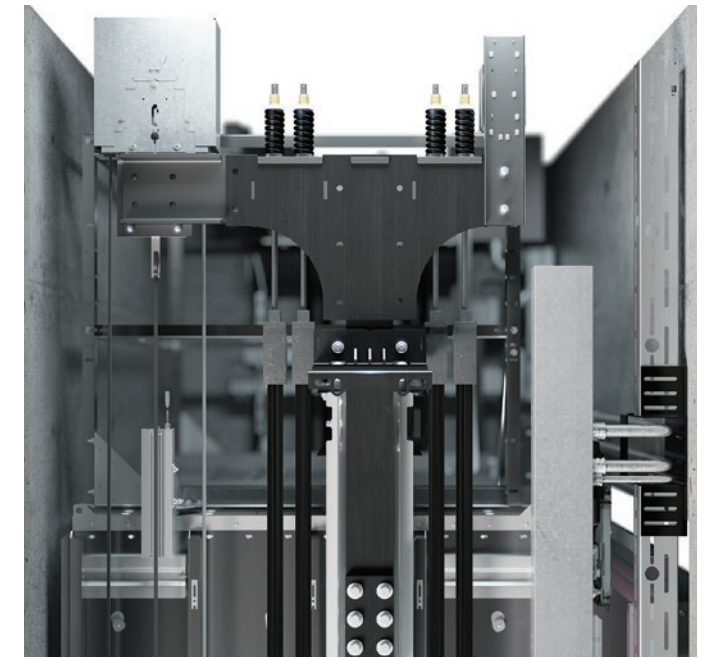
The smaller sheaves in evolution have a tighter turning radius, allowing for a compact motor that takes up less overhead space.

Permanent magnet gearless system

Improves ride quality while increasing energy efficiency.

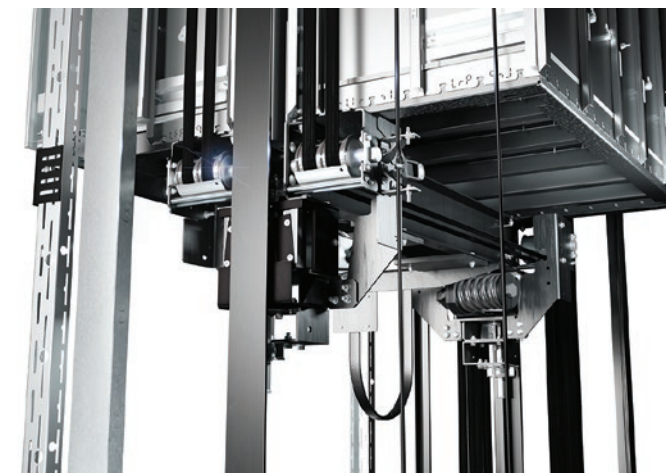
2 Rail-supported

evolution is supported by its rails rather than your building. That means your installation requires less coordination between trades.



3 Underslung design

Helps evolution offer a smaller hoistway and reduced overhead space.



4 Belts

Belts have a longer life span than ropes. They also provide a quieter and smoother ride. Belts consist of twelve internal steel cords encased in FT1 rated polyurethane material, making the suspension means lighter than steel cables.



Features and components that enhance performance, reliability, energy efficiency and safety.

Controller

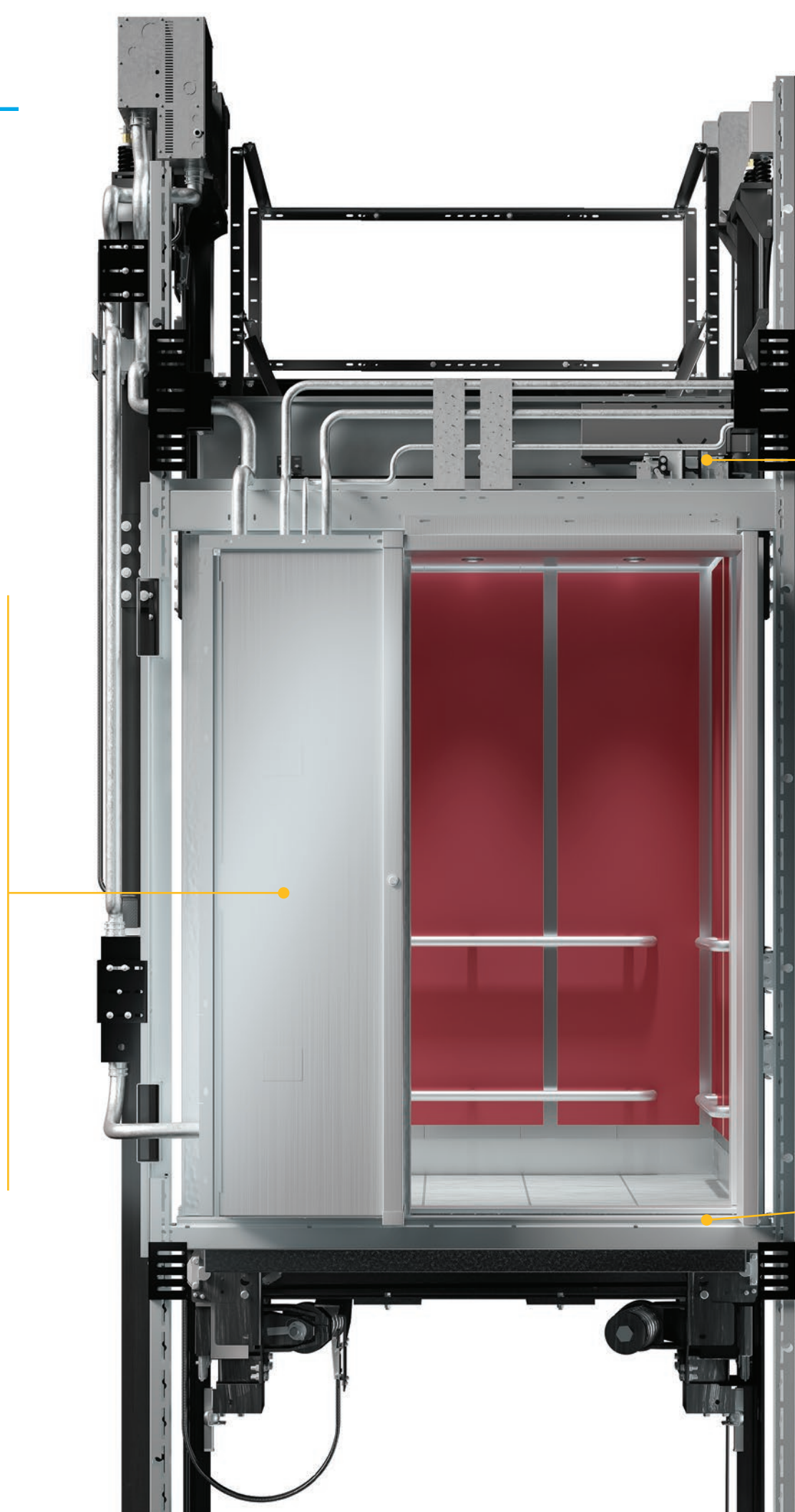
Fits into a tiny 216 mm door jamb and is fully digital. This saves space and helps reduce elevator noise.

Regenerative drive

Captures unused energy generated by the elevator and feeds it back into your building grid. It's more compact, faster to install, easier to maintain and replaces motor and brake contactors with SIL3 solid-state devices for a quieter and more reliable drive.

Auto-rescue

In a power outage, passengers are automatically transported to the next available floor and doors open so they can get out.



Universal door operator

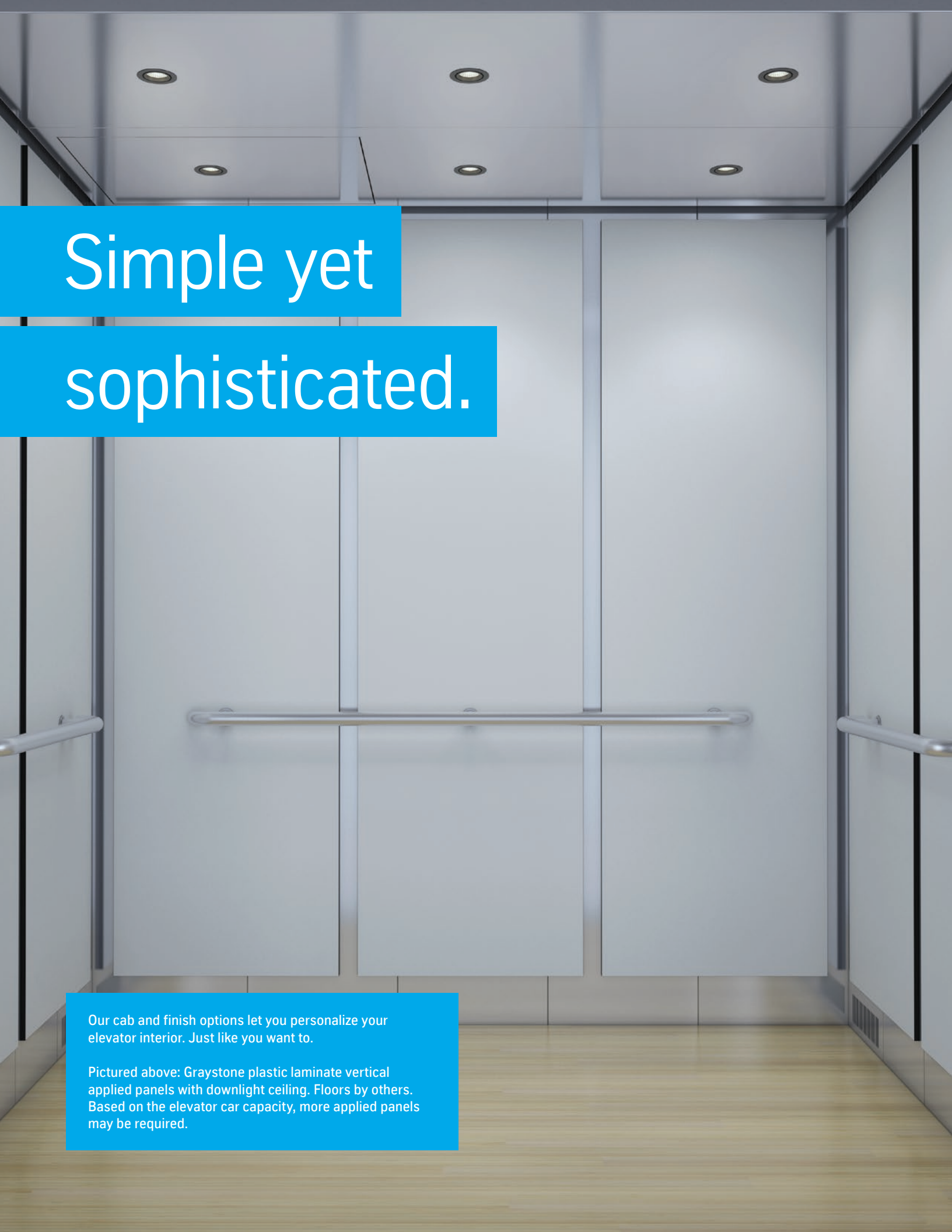
Malfunctioning doors are the leading cause of elevator service calls. This new technology provides door reliability as well as quick and smooth door operation.



Absolute positioning system

Precisely measures your elevator's speed and positioning. This promotes accurate floor stopping, so floors are level and passengers are safe.

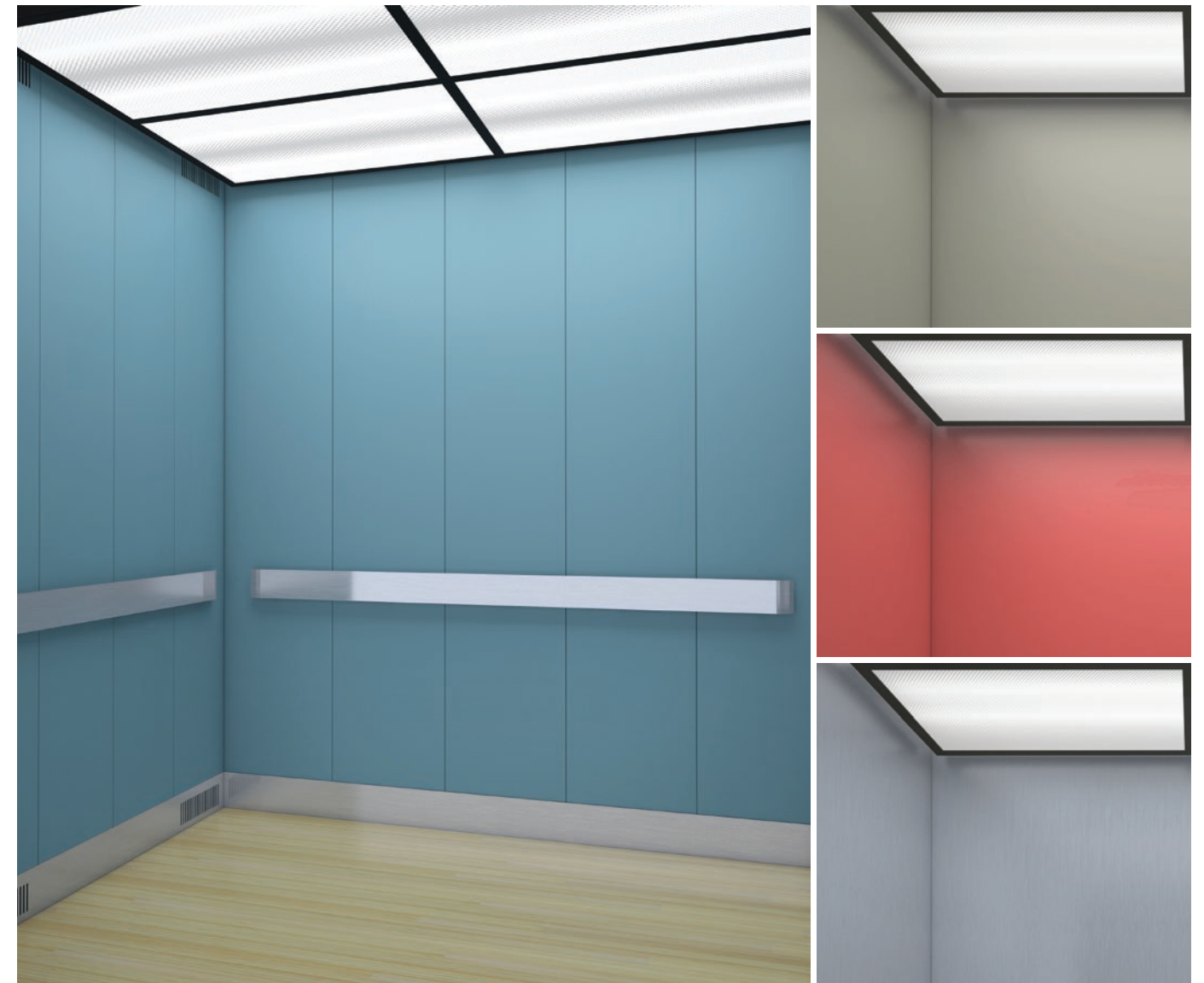
Simple yet sophisticated.



Our cab and finish options let you personalize your elevator interior. Just like you want to.
Pictured above: Graystone plastic laminate vertical applied panels with downlight ceiling. Floors by others. Based on the elevator car capacity, more applied panels may be required.

Steel shell

Standard cab

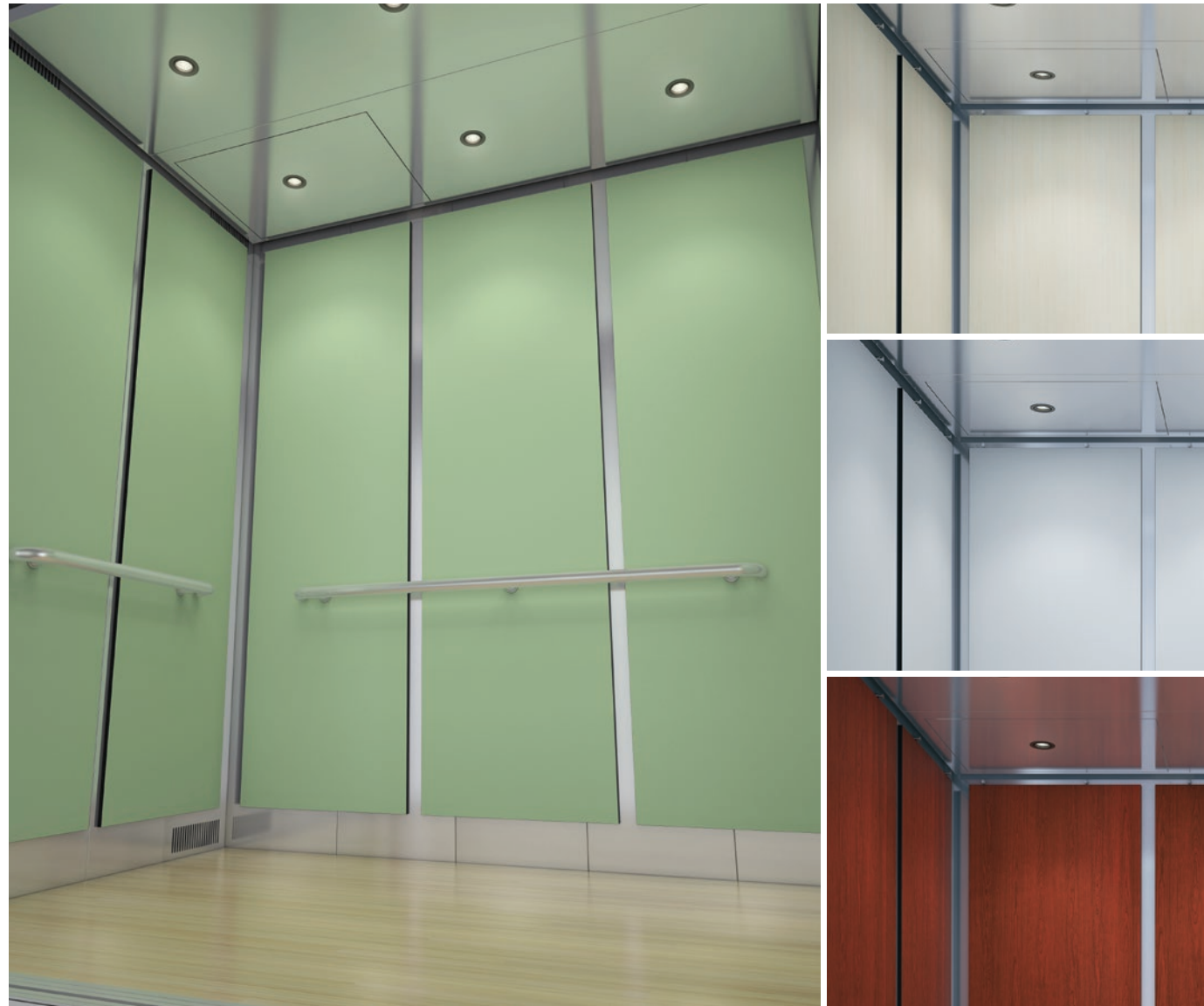


Steel shell wall design

Clean and modern flat cab interior designs convey quality. Our durable formed steel shell cab is available in a variety of powder coat options or can be upgraded to stainless steel.

Applied panel

Upgraded cab



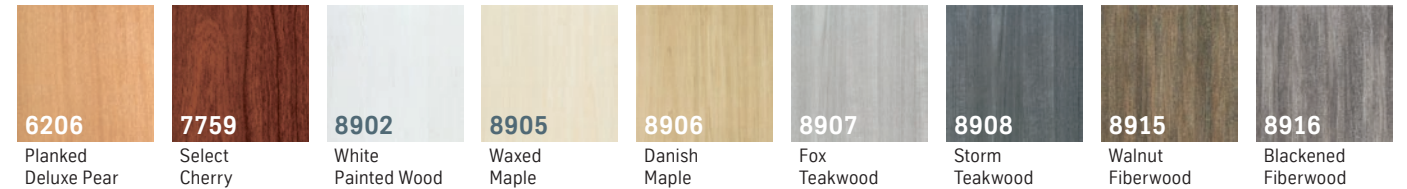
Steel shell wall with applied panel design

Mix beauty and practicality with this decorative and durable cab. The panel design is constructed with a high-quality steel shell and vertical raised panels made with a core of urea formaldehyde-free wood.

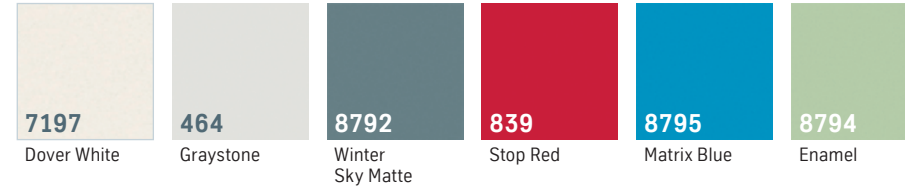
Finishes

Plastic laminates

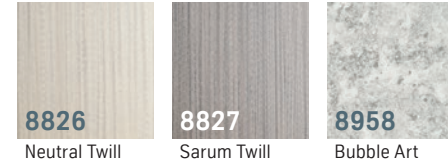
Woods



Solids

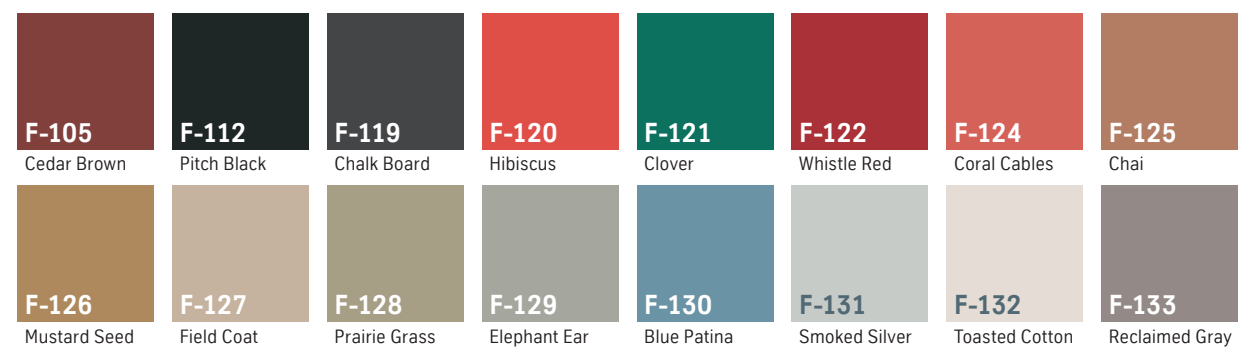


Patterns



⚠ Colors may vary. We recommend examining a large color selector sheet before making a selection.

Powder coats

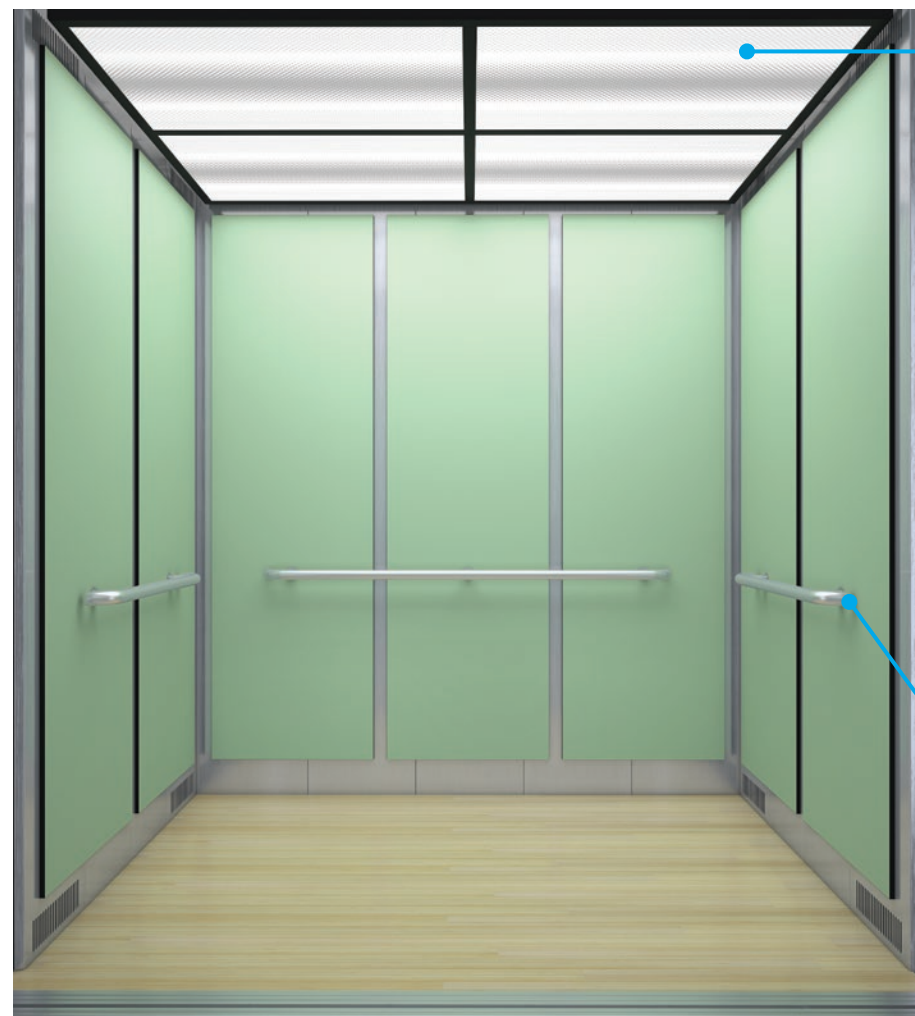


Metals



¹ Limited application. Contact your local representative for details.

Cab accessory options



Ceilings



Suspended

White translucent diffusers for LED lighting are available with ceiling frames in a powder coat or stainless steel finish.



Downlight

Metal pan downlight ceiling features LED lighting with six or nine lights (based on cab size.) Lights are mounted in your choice of powder coat or stainless steel ceiling panels.



Handrails



Cylindrical¹

38 mm cylindrical handrail is a continuous metal form with ends turned toward the wall. We also offer straight end caps. Comes in stainless steel finish.

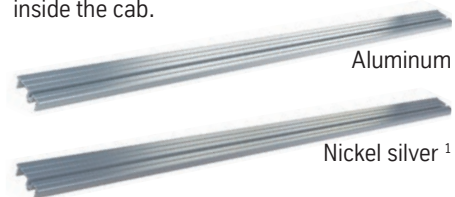


Flat bar

Metal bar handrail is available in 6 mm thickness and 51, 102 or 152 mm widths.² Comes in stainless steel finish.

Sills

Our cab sill finishes allow you to match your sills to any other design component inside the cab.



2

Braille plates

- Option 1: Resin braille plate
- Option 2: Surface mount cast braille plate
- Option 3: Flush (inlaid) mount cast braille plate

Illustrations vary based on configurations.

¹ Not available on all models.

² 102 mm and 152 mm flat bar handrails not available on all models.

Fixtures

Traditional fixtures

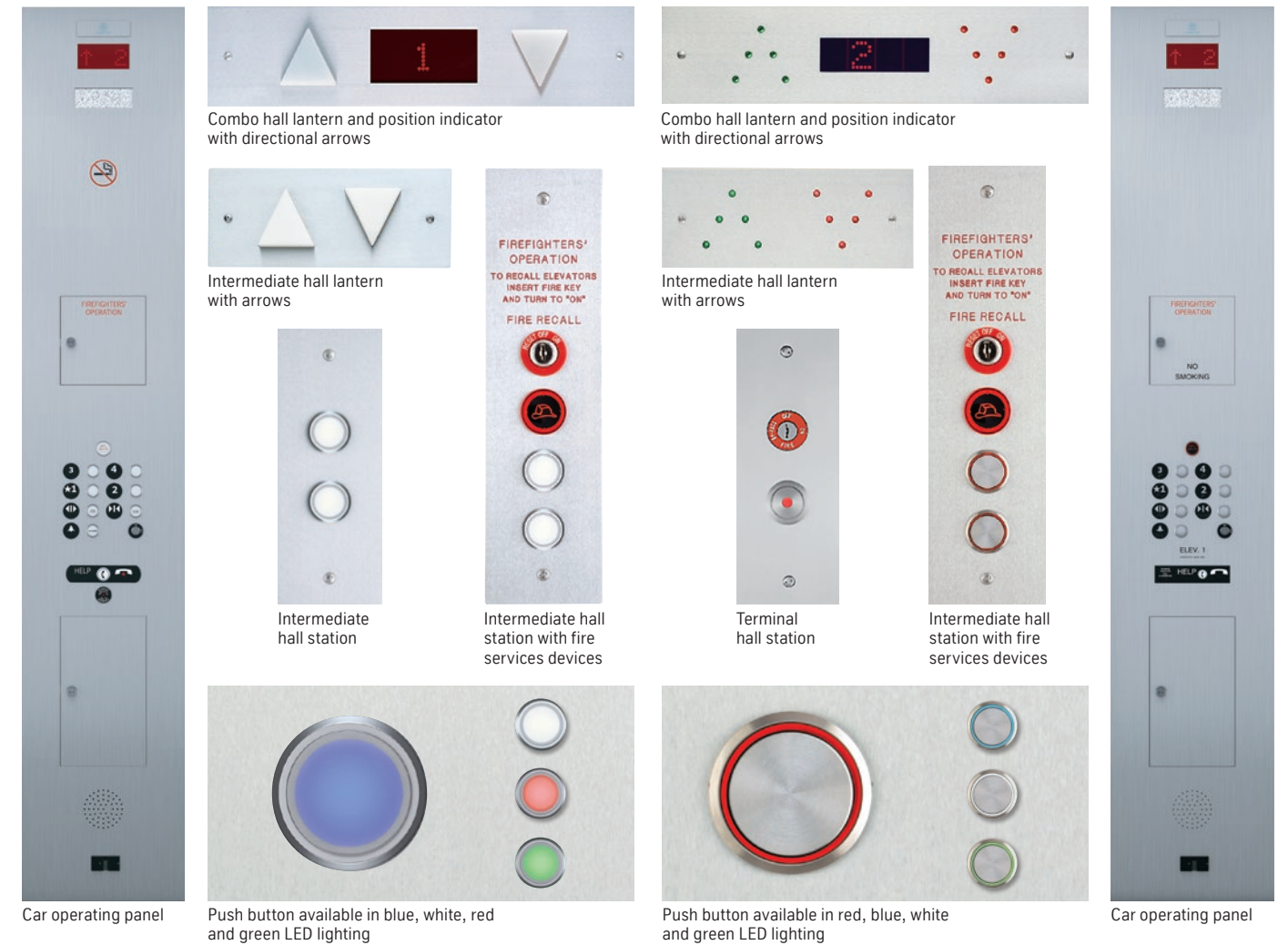
Product details

- Faceplates in brushed or polished stainless steel**
- Position indicator displays car location with matrix of red LED-illuminated dots

Vandal-resistant fixtures*

Product details

- Faceplates in brushed or polished stainless steel**
- Extra level of protection in challenging environments
- Pry-resistant hall jamb symbols and buttons are mounted flush with the door frame



Car operating panel

Push button available in blue, white, red and green LED lighting

Push button available in red, blue, white and green LED lighting

Car operating panel

Fixtures shown above are for representation only. Your project-specific application may vary.

* Vandal-resistant fixtures not available on evolution 100. ** Polished stainless steel not available on evolution 100.

Door configurations

Door orientation options offer a range of benefits to accommodate different project needs.

One-speed

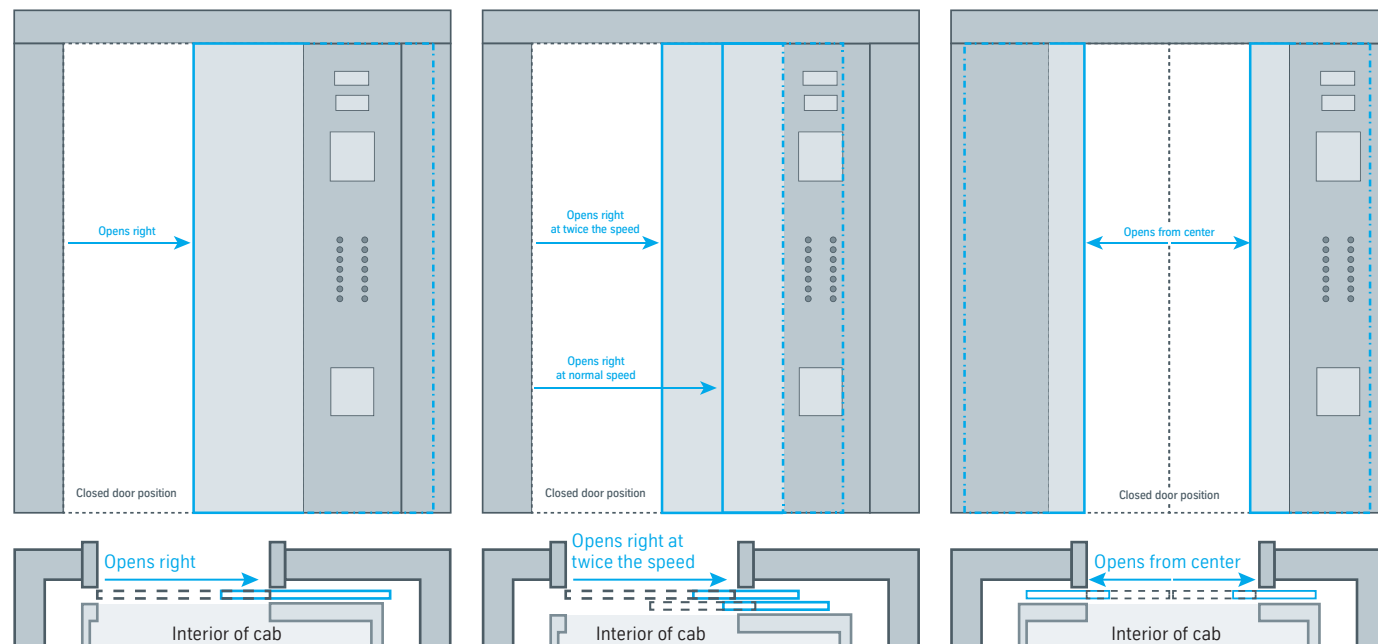
The most economical door offering, available with either right- or left-hand opening. (right-hand shown)

Two-speed

Provides a wider opening without compromising door cycling time. Two doors move in the same direction, one sliding faster than the other. Available with either right- or left-hand opening. (right-hand shown)

Center opening

Best for high-traffic buildings. Permits the quickest entry and exit, improving elevator service while giving an attractive, symmetrical appearance.

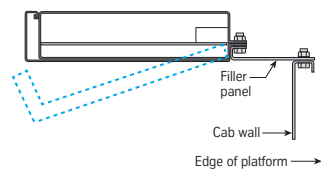


Front returns



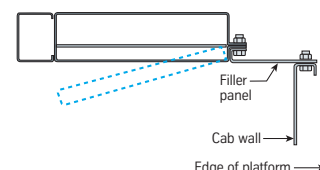
Wrap-around returns*

This return features a hinged car operating panel and separate filler panel.



Column returns**

This return features a hinged car operating panel secured to the filler panel and aligned vertically with the column.



* Comes standard

** Column returns only available on 2041 - 2268 kg with a 102 - 152 mm door.

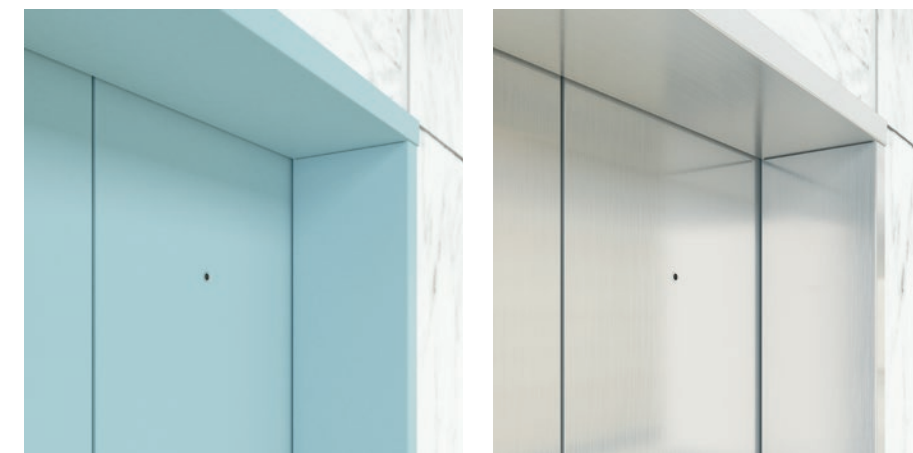
Front returns include the car station, return panel, signal fixtures and head jamb. Images above represent return types in brushed stainless steel.

Entrance options

The entrance frame and door are supplied by thyssenkrupp. You'll choose from powder coats or metal finishes.

Hoistway and door entrance finishes

Typically, the entrance frame would match the door selection, but nothing says you have to. Choose from any powder coat color or metal finish.



Powder coat finish

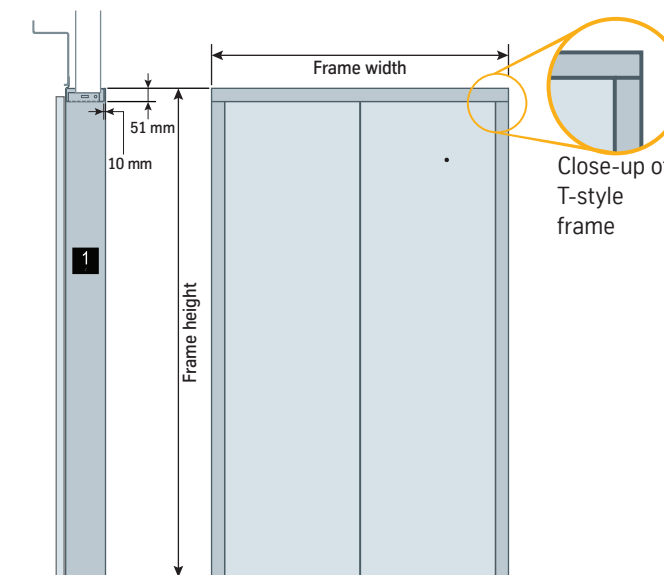
T-style entrance frame in Blue Patina powder coat.

Metal finish

T-style entrance frame in Brushed Stainless Steel.









Hoistway entrance frame

Face of frame is a minimum of 51 mm. Increases to 76 mm on controller landing.











Planning

evolution 100 numbers at a glance

-  **Travel**
22860 mm
-  **Speed**
1.02 m/s
-  **Technology**
Gearless traction
-  **Capacity**
953 – 1588 kg
-  **Type**
Self supported
-  **Fit**
Machine room-less
-  **Max stops**
10
-  **Max openings**
10 (front only)

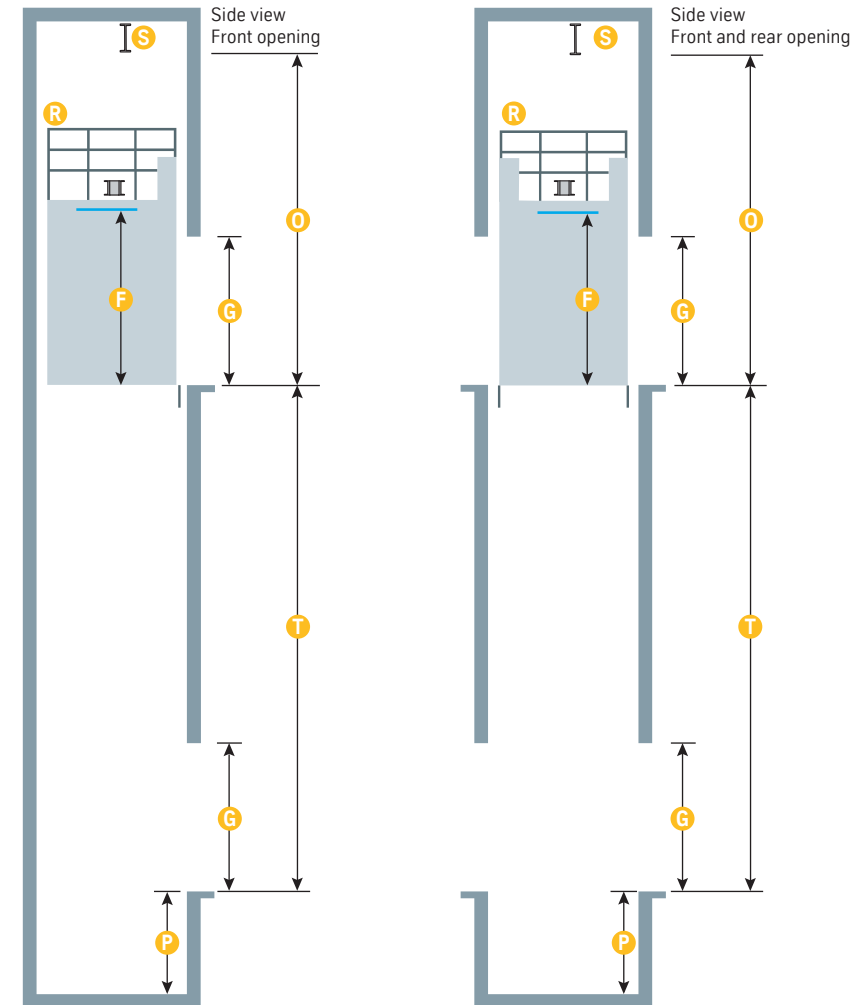
evolution 200 numbers at a glance

-  **Travel**
106680 mm
-  **Speed**
1.02 – 3.05 m/s
-  **Technology**
Gearless traction
-  **Capacity**
953 – 2268 kg
-  **Type**
Self supported
-  **Fit**
Machine room-less
-  **Max stops**
35
-  **Max openings**
35 (front only)



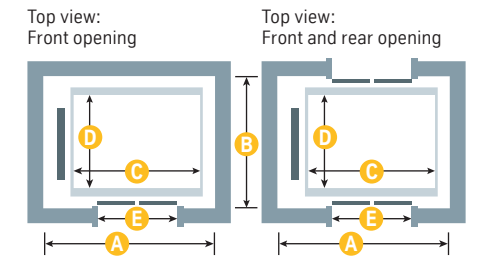
➔ You've got options and simplicity. Planning is easy.

evolution 100 Passenger elevators

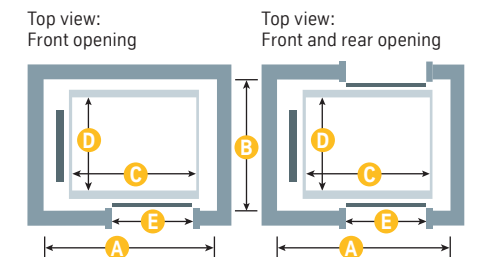


- A** Hoistway width
- B** Hoistway depth
- C** Inside clear width
- D** Inside clear depth
- E** Door clear width
- F** Inside clear height
- G** Door clear height
- O** Minimum overhead
- P** Minimum pit depth
- R** Car top railing
- S** Safety beam
- T** Travel

One-speed center opening doors



One-speed side opening doors



evolution 100 – passenger elevators

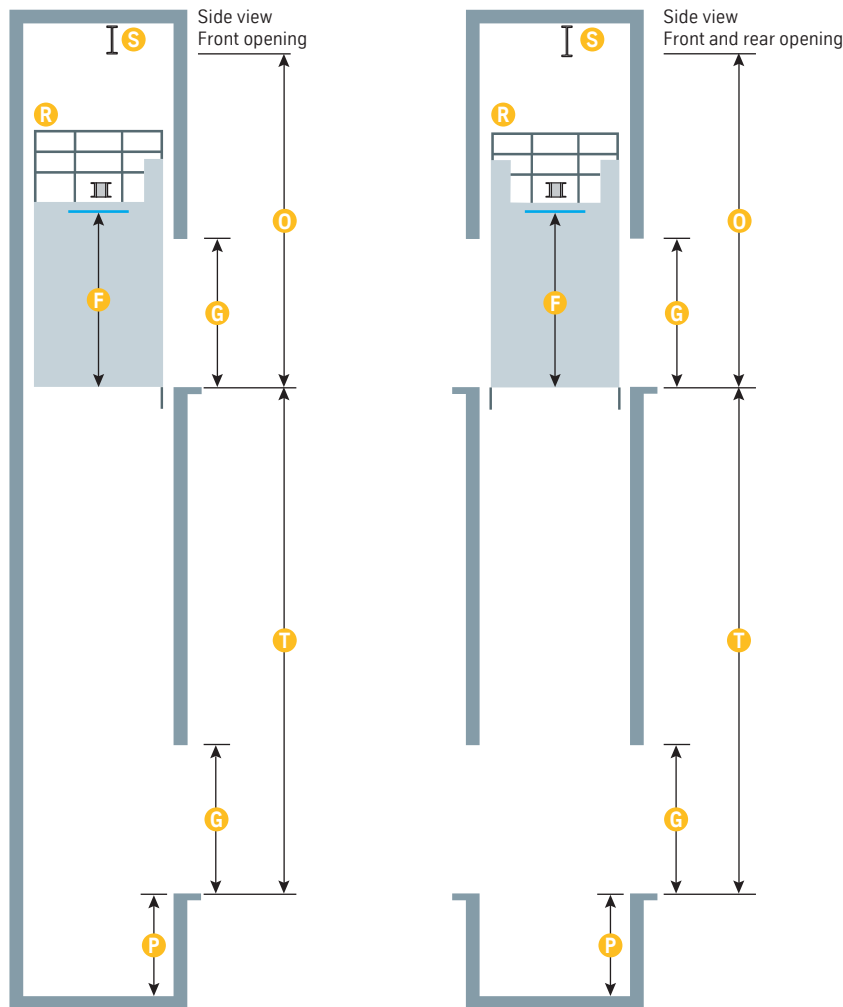
Capacity (kg)	Hoistway A x B (mm)	Front/rear	Inside clear ⁸ C x D (mm)	Door type	Door width E (mm)
953 ^{3,13}	2286 x 1753	F	1727 x 1305	One-speed	914
1134	2591 x 1753	F	2032 x 1305	One-speed	1067
1134 ^{5,25}	2591 x 2042	F/R	2032 x 1318	One-speed	1067
1361 ⁵	2591 x 1905	F	2032 x 1448	One-speed	1067
1361 ^{5,25}	2591 x 2184	F/R	2032 x 1461	One-speed	1067
1588 ⁵	2591 x 2108	F	2032 x 1651	One-speed	1067
1588 ^{5,25}	2591 x 2388	F/R	2032 x 1664	One-speed	1067

- F** Inside clear height: 2235 mm^{1,2}
- G** Door clear height: 2134 mm
- S** 203 mm safety beam (51 mm clear above) required capable of holding 3402 kg⁷
- O** Minimum overhead: 3861 mm^{6,7}
- P** Minimum pit depth: 1524 mm⁹

Contact your local representative for various code or jurisdictional exceptions. Also contact them if same hand door configurations or other alterations are required.

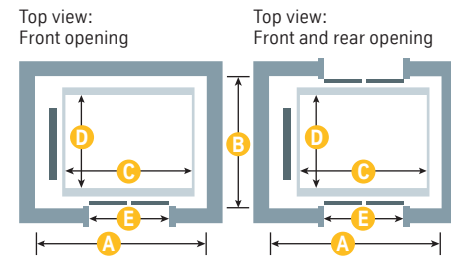
See endnotes on page 29.

evolution 200 Passenger elevators

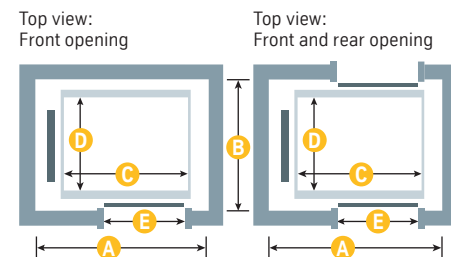


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- P** Minimum pit depth
- R** Car top railing
- S** Safety beam
- T** Travel

One-speed center opening doors



One-speed side opening doors



- F** Inside clear height: 2235 mm ^{1,2}
- G** Door clear height: 2134 mm ¹⁰
- S** 203 mm safety beam (51 mm clear above) required capable of holding 3402 kg ⁷
- O** Minimum overhead (mm): ^{6,7}
1.02 m/s: 3861 2.54 m/s: 4242
1.78 m/s: 4064 3.05 m/s: 4572
- P** Minimum pit depth (mm): ^{9,12}
1.02 m/s: 1524 2.54 m/s: 1981
1.78 m/s: 1676 3.05 m/s: 2184

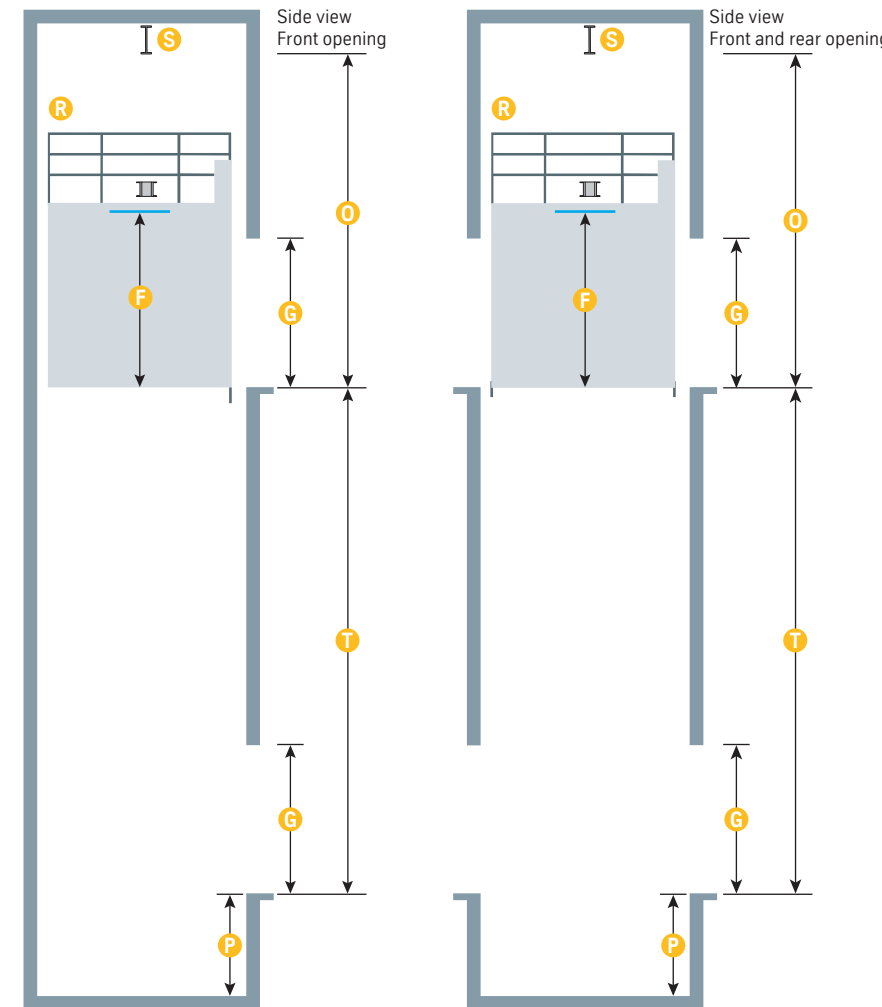
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See endnotes on page 29.

evolution 200 – passenger elevators

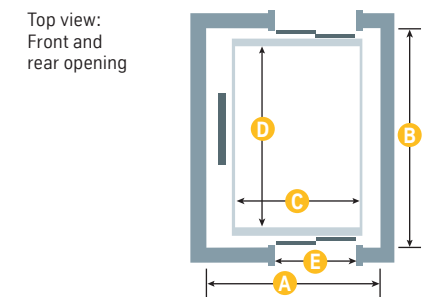
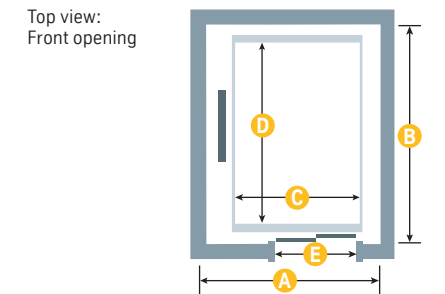
Capacity (kg)	Hoistway ⁴ A x B (mm)	Front/rear	Inside clear ⁸ C x D (mm)	Door type	Door width ¹¹ E (mm)
953 ^{3,13}	2286 x 1753	F	1727 x 1305	One-speed	914
1134	2591 x 1753	F	2032 x 1305	One-speed	1067
1134 ^{5,25}	2591 x 2042	F/R	2032 x 1318	One-speed	1067
1361 ⁵	2591 x 1905	F	2032 x 1448	One-speed	1067
1361 ^{5,25}	2591 x 2184	F/R	2032 x 1461	One-speed	1067
1588 ⁵	2591 x 2108	F	2032 x 1651	One-speed	1067
1588 ^{5,25}	2591 x 2388	F/R	2032 x 1664	One-speed	1067
1814 ⁵	2896 x 2108	F	2337 x 1651	One-speed	1067/1219
1814 ⁵	2896 x 2388	F/R	2337 x 1664	One-speed	1067/1219

evolution 200 Service elevators



- A** Hoistway width
- B** Hoistway depth
- C** Inside clear width
- D** Inside clear depth
- E** Door clear width
- F** Inside clear height
- G** Door clear height
- O** Minimum overhead
- P** Minimum pit depth
- R** Car top railing
- S** Safety beam
- T** Travel

Two-speed side opening doors



- F** Inside clear height: 2235 mm ^{1,2}
- G** Door clear height: 2134 mm ¹⁰
- S** 203 mm safety beam (51 mm clear above) required capable of holding 3402 kg ⁷
- O** Minimum overhead (mm): ^{6,7}
1.02 m/s: 3861 2.54 m/s: 4242
1.78 m/s: 4064 3.05 m/s: 4572
- P** Minimum pit depth (mm): ⁹
1.02 m/s: 1524 2.54 m/s: 1981
1.78 m/s: 1676 3.05 m/s: 2184

Contact your local representative for various code or jurisdictional exceptions. Also contact them if same hand door configurations or other alterations are required.

See endnotes on page 29.

evolution 200 – service elevators

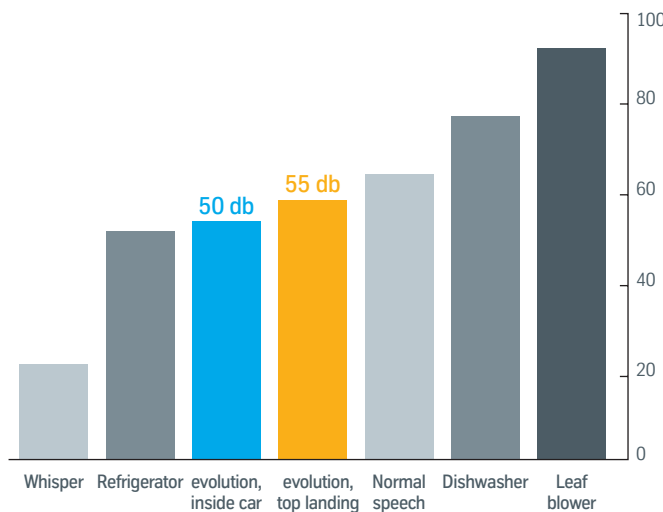
Capacity (kg)	Hoistway ^{4,11} A x B (mm)	Front/rear	Inside clear ⁸ C x D (mm)	Door type	Door width ¹¹ E (mm)
2041	2286 x 2908	F	1727 x 2375	Two-speed	1219/1372
2041 ²⁵	2286 x 3264	F/R	1727 x 2388	Two-speed	1219/1372
2268	2286 x 3099	F	1727 x 2565	Two-speed	1219/1372
2268 ²⁵	2286 x 3454	F/R	1727 x 2578	Two-speed	1219/1372
2268H	2286 x 3277	F	1727 x 2743	Two-speed	1219/1372
2268H ²⁵	2286 x 3632	F/R	1727 x 2756	Two-speed	1219/1372

Technical specifications

Power characteristics	480 volts, 3 phase, 60 hertz at 2.03 m/s or up (if 1.02 m/s, lower voltage options are available). Isolation transformer may be required on jobs with less than 480 VAC, 3 phase. Transformer must be located within 38100 millimeters of controller. Transformer installed by thyssenkrupp but wiring installed by others.
Brakes	Dual braking system (main and emergency)
Solid state brake controls	Contactless components for emergency and normal brakes as well as motor that reduces noise
Number of belts	Four, on cars up to 1588 kg capacity; Six, over 1588 kg capacity (Depending on cab weight, a 1588 kg capacity car may need six belts.)
Suspension means	Flat belt: 44 mm belt width and 3.8 mm thickness; 12 internal steel cords encased in FT1 rated PU material
Belt monitoring	Monitored by residual life span, traction loss detection device, belt member loss and a trip count
Machines	Permanent magnet gearless machine
Absolute position system	Elgo, sensor reads position data off of magnetic tape
Drive	Fully regenerative digital drive with automatic rescue included
Controller	TAC32T (in the wall or in optional control space if required by local jurisdictions, building constraints, and job-specific performance)
Door operator	Universal door operator
Car guides	Slide guides standard at 1.02 m/s; Roller guides standard at 1.78 – 3.05 m/s
Counterweight guides	Slide guides standard at 1.02 – 3.05 m/s
Counterweight	Side only
Governor	Wittur, remote resetting governor
Finished floor height	10 mm or 19 mm standard

A quiet ride
This elevator is very quiet. It emits fewer decibels than a normal conversation at home.*

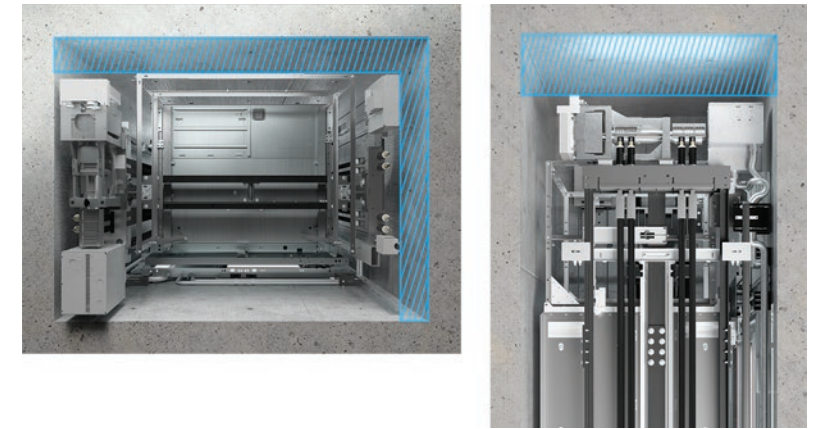
*Source: Decibel comparison values from E•A•RCAL Laboratory, 3M Occupational Health and Environmental Safety Division



evolution hoistway efficiency

Everything fits into the hoistway, giving you more leasable building space.

Reduced hoistway width, depth and height are due to the compact machine with small components and underslung design. This results in a smaller building footprint.



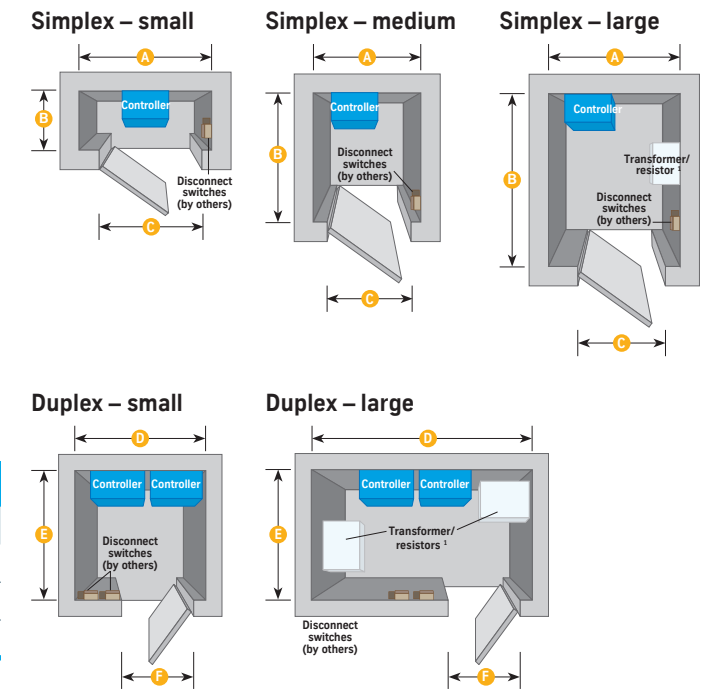
evolution controller closets

The features of your evolution system determine the controller closet you'll need.

Controller closets includes room for controller, disconnect and resistor boxes. The most desirable controller closet location is on the top floor served, adjacent to the elevator hoistway.

At an additional cost, it may be located remotely, but the traveling cable must be no longer than 45720 millimeters from the machine to controller.

Some jurisdictions require controller closets to be full-body entry; small spaces or closets may not be acceptable. Check with your thyssenkrupp Elevator representative.



evolution simplex ²³			
Size	A (mm)	B (mm)	C (mm)
Small	1372	610	914
Medium	1168	1397	914
Large	1372	1803	1067

evolution duplex ^{23, 24}			
Size	D (mm)	E (mm)	F (mm)
Small	1676	1651	914
Large	2794	1651	914

See endnotes on page 29.

Technical comparisons

	evolution 100	evolution 200
Base options		
Elevator load capacities (kg)	953, 1134, 1361, 1588	953, 1134, 1361, 1588, 1814, 2041, 2268, 2268H
Elevator car speed	1.02 m/s	1.02, 1.78, 2.54 and 3.05 m/s
Max travel	22860 mm	106680 mm
Max stops	10	35
Seismic zones	0, 1, 2, 3, 4	0, 1, 2, 3, 4
Cab weight allowances	Up to 136 kg, depending on speed/capacity combination	Up to 680 kg, depending on speed/capacity combination
Cab type	TKAP, TKS	TKAP, TKS
Cab height (nom.)	2438 mm only	2438, 2743, 3048 mm
Door clear height	2134 mm only	2134, 2438, 2743 mm
Front and rear openings ¹³	+	+
Door width:		
914 mm	+	+
1067 mm	+	+
1219 mm	⊗	+
1372 mm	⊗	+
Maximum openings (front only front and rear)	10 20	35 70
Max number of cars in a group	15	15
Permanent magnet gearless machine	+	+
Car sling and platform	+	+
Rail-supported	+	+
Remote-resetting governor (Wittur, 305 mm)	+	+
Jamb-mounted digital controller	+	+
Universal door operator (LD16 / LD16 Plus)	+	+
Absolute positioning system (ELGO)	+	+

See endnotes on page 29.

Key

✓ Comes standard ⊕ Available ⊗ Not available

	evolution 100	evolution 200
Base options		
Dual braking system (main and emergency)	⊕	⊕
Solid state brake controls ¹⁴	⊕	⊕
Complies with IBC codes	yes	yes
Voltage (3 phase 60 hertz)	208, 230 and 460 (no transformers)	208, 240, 460, 575 (Canada only)
Flat belts suspension means ¹⁵	✓	✓
Number of belts	4	4 or 6 (for 720 kg capacities or greater)
Flat belts monitoring ¹⁶	✓	✓
Car rails	6.8 kg	6.8 kg
Counterweight rails	3.6 kg or 6.8 kg	3.6 kg or 6.8 kg
Counterweight – side mounted only	✓	✓
Car guides	slide	slide or roller (used at 1.8-3.0 m/s)
Counterweight guides	slide	slide
Compensation	Not required at any speed or travel	No compensation required. Up to 30480 mm travel, EXCEPT all 2268 kg capacities & speed > 106680 mm for 1814 and 2041 kg capacities
Pit ladders – retractable, 305 mm (406 mm also available)	✓	✓
Ladder brackets	✓	✓
Minimum pit depth – 1524 mm	✓	✓
Car buffers – stroke determined by speed	✓	✓
Counterweight buffers – always two	✓	✓
Controller location – if remote¹⁷		
In jamb at top landing	✓	✓
Controller closet	⊕ (adjacent at top landing)	⊕ (45720 mm max wire run)
TAC32T slim controller	✓	✓

M/S Meters per second KG Kilogram

	evolution 100	evolution 200
Fixture, entrance and other options		
Regenerative drive	✓	✓
Regenerative disable	✓	✓
Car canopy – 14 gauge	✓	✓
Car canopy finish	White (PC) only	White (PC) only
Safety beam – provided and installed by others ¹⁸	✓	✓
Hall station type – terminal or intermediate ¹⁹	✓	✓
Hall fixtures	Traditional	Traditional and Vandal-resistant
Lantern illumination		
Traditional, Vandal-resistant – red, blue, green, white	⊕ (Traditional only)	⊕
Braille	✓	✓
Fire service – mounted separate or in hall station	✓	✓
Fire service signage	✓	✓
Appendix H/O signage	✓	✓
Entrances		
Frame gauge	14 gauge	14 gauge
Door gauge	18 gauge	18 gauge (standard), 16 gauge
AGILE Kiosk	⊗	⊕
Black anodized aluminum frame with black-edged screen	⊗	⊕
Polished aluminum frame with black-edged glass screen	⊗	⊕
Polished aluminum frame with white-edged glass screen	⊗	⊕
Door and frame finish		
Powder coat ²⁰	⊕	⊕
Brushed stainless steel #4	⊕	⊕
Polished stainless steel #8	⊗	⊕

See endnotes on page 29.

	evolution 100	evolution 200
Fixture, entrance and other options		
Fascia	Partial or full; partial applies automatically with the code year selection of 2000 or greater	Partial or full; partial applies automatically with the code year selection of 2000 or greater
Bottom pit fascia	⊕	⊕
Keyholes	⊕	⊕
Predictive maintenance solution – MAX	✓	✓
Auto-rescue ²¹	✓	✓
Fixture finish		
Brushed stainless steel #4	⊕	⊕
Polished stainless steel #8	⊗	⊕
Final limit location		
Car top mount	✓	✓
Hoistway mount	⊕	⊕
Controller options		
Infant security	⊗	⊕
Sabbath	⊗	⊕
Inconspicuous riser	⊗	⊕
MKII shutdown	⊗	⊕
Car riding lantern	✓	✓
Hall lantern	⊕	⊕
Door hold (Door operator controls)	⊗	⊕
eMax (aka MAX)	⊕	⊕
Fire service	✓	✓
Hoistway access	⊕	⊕
Independent service	⊕	⊕
Loadweigher controls	⊕	⊕
Position indicator	⊕	⊕
Remote governor reset	⊕	⊕

	evolution 100	evolution 200
Fixture, entrance and other options		
Sleep mode	+	+
User Interface tool	+	+
Hoistway enable/ Inspection operation	+	+
Isolation transformer	⊗	+
Standby power	+	+
Tenant security (3.1 only)	+	+
Door opening type – single speed LH or RH and CO	+	+
Cab design		
Protection pads	+	+
Cab shell		
14 gauge	+	+
16 gauge	+	+
Shell finish		
Powder coat	✓ (no special paint)	+
Brushed stainless steel #4	⊗	+
Brushed stainless steel #4 (316 series)	⊗	+
Polished stainless steel #8	⊗	+
5WL stainless pattern	⊗	+
Finished floor height		
10 mm floor	+	+
19 mm floor	✓	✓
Cab finishes		
Powder coat	+	+
Brushed stainless steel #4	⊗	+
Polished stainless steel #8	⊗	+
Brushed stainless steel #4 (316 series)	⊗	+
Plastic laminates - for applied panels	+	+
Laminate color selections	Solids, patterns and woods	Solids, patterns and woods

Key

✓ Comes standard
 + Available
 ⊗ Not available
 M/S Meters per second
 KG Kilogram

	evolution 100	evolution 200
Cab design		
Ceiling type		
Basic flat	⊗	⊗
Suspended	✓ (frame finish in PC only)	+
Downlight	+	+
Handrail finishes		
Brushed stainless steel #4	✓	+
Polished stainless steel #8	⊗	+
Handrail type		
38 mm cylindrical	⊗	+
51 mm flat bar	✓	+
102 mm flat bar	⊗	+
152 mm flat bar	⊗	+
Bumpers	⊗	+
Sills		
Aluminum	✓	+
Nickel silver	⊗	+
Entrances		
Door gauge	18 gauge	18 gauge (standard), 16 gauge
Door and frame finish		
Powder coat	✓	+
Brushed stainless steel #4	✓	+
Polished stainless steel #8	⊗	+
Kickplate	⊗	+
Cab base	⊗	+
Welded frames	⊗	+
Microlight	✓	✓
Cab fan – two speed	✓	✓
Car fixtures	Traditional	Traditional and Vandal-resistant
Car fixtures buttons – traditional with T2	White, red, green and blue	White, red, green and blue
Car fixtures buttons – traditional with vandal-resistant	N/A	White, red, green and blue

	evolution 100	evolution 200
Cab design		
Car signals and COP		
Car call lockout	⊗	+
Emergency light test	+	+
Door hold open	⊗	+
Braille plates	Standard	Standard, Cast Disc Flush
Position indicator	25 mm dot matrix only	25 or 51 mm dot matrix or CE dot matrix
Capacity plate	Standard, no engraving	Standard or engraved
Smart rescue phone ²²	✓	✓
Auxiliary COP	1 only	Maximum of 3 – limited by cab openings and door types
Car riding lanterns	Traditional	Traditional and Vandal-resistant
Additional car riding lanterns	⊗	+
AGILE supported	⊗	+

	evolution 100	evolution 200
Cab design		
Locked compartment	+	+
Fire compartment	+	+
Medical emergency key switch	+	+
Card reader override switch	+	+
Fire service	+	+
Hoistway enable	+	+
Independent service	+	+
NC special access	+	+
Card reader 4 x 4 space only	+	+
Seismic jewel	+	+
thyssenkrupp emblem	+	+
French english car station markings	+	+

Endnotes

Dimensional data shown is for non-seismic zones and complies with current ASME A17.1 and CSA B44 Safety Code for Elevators. Local codes may vary from the national codes. Consult your thyssenkrupp Elevator representative for details.

- ¹ Inside clear heights of 2540 and 2845 mm are also available on an evolution 200 model.
- ² Dimension shown is the distance between the suspended ceiling and a maximum 19 mm finished floor. If 10 mm finished floor, the inside clear height increases to 2248 mm.
- ³ This capacity is not available with center opening doors.
- ⁴ For non-seismic installations, add 25 mm to hoistway width when travel exceeds 30480 mm. For seismic Zone 2 or greater or IBC equivalent, add 51 mm to hoistway width if travel is less than or equal to 30480 mm. For seismic Zone 2 or IBC equivalent, add 76 mm to hoistway width if travel exceeds 30480 mm. For seismic Zone 3 or greater or IBC equivalent, add 76 mm to the hoistway width if travel is between 30480 - 76200 mm. For seismic Zone 3 or greater or IBC equivalent, add 152 mm to hoistway width if travel is greater than 76200 mm.
- ⁵ To achieve IBC stretcher compliance, you can accommodate an 2134 mm ambulance stretcher in car capacities of 1134, 1361, 1588, and 1814 kg with 1037 mm side opening doors. However, this is dependent on cab and door configurations. We also offer 2041 and 2268 kg car capacities with no configuration restrictions. Contact your thyssenkrupp Elevator representative for specific cab and door configurations.
- ⁶ For areas enforcing ASME A17.1 2010 code or greater, the minimum overhead requirement is the same for simplex/multicar/seismic/non-seismic. For areas enforcing pre-2010 ASME A17.1 code and speed is equal to 1.02 m/s, the minimum overhead is still the same, but if speed increases to 1.78 m/s or more, the minimum overhead is greater than what is shown. Contact your local representative for overhead requirements.
- ⁷ Provided and installed by others, as directed by the local office. Minimum overhead is shown to the bottom of the safety beam.
- ⁸ Inside clear cab dimensions are based on maximum 13 mm applied wall panel.
- ⁹ No occupied space allowed below pit.
- ¹⁰ Door clear height of 2438 and 2743 mm are also available for taller cabs on evolution 200 but contact your local representative for additional details.
- ¹¹ For 1372 mm doors, hoistway width increases to 2515 mm for non-seismic and seismic and are limited to the closet-mounted controller configuration only. For 1219 mm doors, see note 4.
- ¹² Minimum pit depth increases to 1981 mm on a 1814 kg capacity car, going 1.78 m/s when it exceeds 68580 mm of travel because it needs a compensation wheel for balancing the car.
- ¹³ Front and rear openings are not available on 953 kg capacity cars.
- ¹⁴ Contactor-less components for brakes as well as motor that reduces noise.
- ¹⁵ 44 mm belt width and 3.8 mm thickness; 12 internal steel cords encased in FT1 rated PU material.
- ¹⁶ Monitored by residual life span, traction loss detection device and belt member loss and a trip counter. Monitor remains a part of system indefinitely or until it is replaced or upgraded.
- ¹⁷ Entrance mounted controllers cannot be grouped with closet applications.
- ¹⁸ A minimum of 51 mm of clearance between the top of the 203 mm safety beam and underside of hoistway ceiling is required.
- ¹⁹ Features in hall stations are limited to a combination of 3 devices.
- ²⁰ Powder coat colors from standard selection; no special paints.
- ²¹ Emergency evacuation to the next landing. (It is automatic and load dependent.)
- ²² 5- or 10-car supported. With jamb-mounted controllers, mounting location and provisions will have to be determined.
- ²³ Controller closet temperature range 0°C minimum, 40°C maximum. 10-95% non-condensing relative humidity.
- ²⁴ May also use two separate closets.
- ²⁵ On front and rear door opening cars that are configured with same hand doors (catty-corner), additional hoistway width is required. For 1134, 1361, 1588 kg capacity cars with 1067 mm doors and 2041, 2268 kg cars with 1219 mm doors, hoistway width must be increased additionally by 51 mm. For 2041, 2268 kg cars with 1372 mm doors, hoistway width must be increased additionally by 279 mm.

Illustrations and images in this brochure may differ from the installed product. Consult your local representative for more information.

You made it. Did you know we manufacture enough elevators each year to fill a building 8000 floors high? That's 25.7 km up, enough to reach the stratosphere.



Enhance efficiency.
Reduce traffic.

Upgrade your elevators — and your building — by adding AGILE. It combines four intelligent elements that improve elevator performance, enhance passenger experiences, reduce building traffic and increase your building security.

AGILE groups passengers together who are traveling to similar floors, resulting in 25 percent faster travel time. The technology also lets you make data-driven decisions to manage your elevator performance.

AGILE integrates with your building's security system or can function as a standalone system. You're also set for future upgrade opportunities with built-in cameras and RFID readers.

AGILE is only available on evolution 200 control systems. Contact your local sales representative for further details.



With a wide variety of design options to choose from, you can create a unique look that reflects your building and tenants.

Four intelligent elements to enhance your elevators



AGILE – Destination Controls

Better passenger experiences

Groups passengers traveling to similar floors together. The result? Shorter ride times, fewer stops and less building congestion. Tenants will love it.



AGILE – Design Center

Touchscreens direct passengers to destinations

Lets you customize the touchscreen kiosks passengers use to select their floor. You can choose our graphics and backgrounds or use your own. No design skills needed.



AGILE – Security Access

Increase your elevator and building security

Safety matters. AGILE integrates with your building security system, operates as a standalone system and can be used as a card reader to provide floor access. You can meet your desired security by controlling access to specific floors.



AGILE – Management Center

Make data-driven decisions to manage performance

AGILE collects data from evolution. You can use this data to make smarter decisions and adapt to tenant requests. It's all about optimization.

Turnstiles are created by others, but the actual touchscreen display is provided by thyssenkrupp Elevator. AGILE is limited only to the evolution 200 product.

Our core principles.

We deliver.

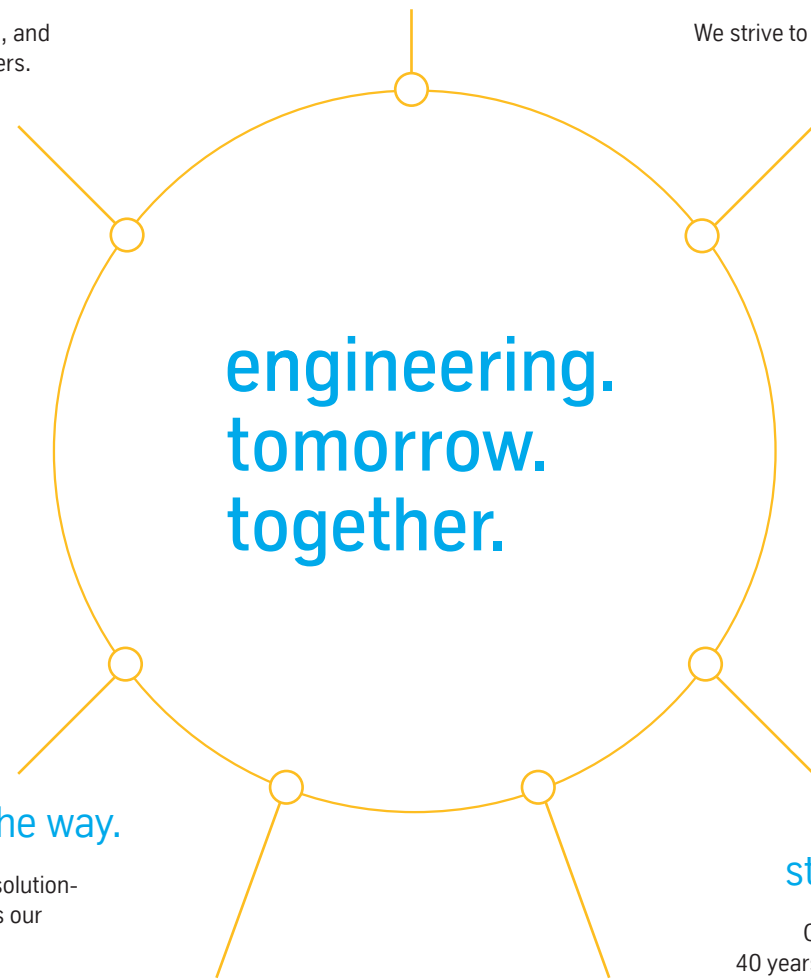
Reliable and high-quality products, services and solutions with precision and a superior cost-benefit ratio.

We innovate.

We strive to find technology and business solutions that cater to future customer needs.

We understand.

We listen, make suggestions, and co-develop with our customers.



We are leading the way.

We act with foresight and a solution-oriented mindset to progress our customers, employees and other stakeholders.

We build on strong experience.

Our expertise is based on over 40 years of engineering competence.

We act as a reliable partner.

We act in an honest, authentic and responsive manner towards customers, employees and other stakeholders.

We empower our employees.

We live an innovation culture based on respect and efficient collaboration.

1,100,000

elevators and escalators under maintenance

customers in over

110

countries

50,000+ employees

Always there.

Our passionate goal is to always be there to secure the reliability of mobility equipment, ensuring it provides each passenger with the safest and most comfortable travel experience, thereby helping to make cities the best ever places to live.

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