

Dedicated to People Flow™



VISUAL OPTIONS, CAR AND SHAFT DIMENSIONS FOR

KONE Airport elevators

KONE airport elevators

KONE offers a full range of airport elevator solutions, ranging from heavy-duty passenger elevators to freight elevators for moving cargo.

Recommended elevator solutions for airports

- Heavy-duty elevator. Designed for normal operation with heavy traffic peaks, especially suitable for transporting passengers with baggage to and from the airport's train or metro stations.
- Mid-duty elevator. Typically used in shopping areas and terminal stations in combination with autowalks, as well as in car parks. These elevators usually have glass walls and shafts, providing a pleasant experience for passengers and giving them a panoramic view over the retail area or the entire terminal. The elevators can also be used as an architectural element in the terminal building's design.
- Large elevator for APM stations. Large passenger elevator for moving passengers to and from APM trains.
- Low-duty elevator. Designed for infrequent or occasional use, these elevators provide access for passengers with special needs, such as those using wheelchairs.
- Air traffic control tower elevator. A specific elevator for air traffic control tower usage.
- Service elevator. Used by airport personnel and for transportation of the equipment and supplies needed in different parts of the airport.
- Freight elevator. Large-capacity freight elevators provide efficient and reliable transportation of cargo weighing up to 5,000 kg.

KONE elevators for airports are based on three different elevator platforms – the machine room-less KONE MonoSpace®, the KONE MiniSpace™ with its compact machine room, and KONE TranSys™ machine room-less for heavy loads. All three platforms utilise the eco-efficient KONE EcoDisc® hoisting technology.

	KONE MonoSpace®	KONE MiniSpace™	KONE TranSys™
Load (persons)	up to 33	up to 54	up to 67
Load (kg)	1000 - 2500	630 - 4000	1600 - 5000
Speed	1.0 - 2.0 m/s	1.0 - 3.0 m/s	0.5 - 1.0 m/s
Travel	24 floors / 60 m	24 floors / 60 m	12 floors / 24 m



Benefits of KONE elevators

Safe, efficient, and reliable operation

- Easy loading and unloading is ensured with automatic, wide-opening doors, which also provide access for people with limited mobility, travelers with baggage, and children in strollers, for example.
- The highly reliable gearless KONE EcoDisc hoisting solution has an excellent track record, with more than 300,000 units operating globally.
- Relevant safety and accessibility standards and regulations are met and exceeded with all KONE equipment.

Eco efficient and cost effective

- KONE EcoDisc powered elevators are 50–70% more energy-efficient than conventional traction 2-speed or hydraulic-powered elevators. Unlike hydraulic elevators, the KONE EcoDisc requires no oil or hole drilling.
- KONE's regenerative solutions can provide 20–35% energy savings by recovering the energy created when the elevator is used.
- LED and eco-efficient fluorescent lighting can reduce energy consumption by up to 80% compared to halogen lights.
- Standby solutions provide substantial energy savings by powering down the equipment when it is not in use.

Visually appealing

- KONE offers a wide range of elevator design choices and materials. EN81-71 Category 1 and 2 are codes to protect the cars and elevators from vandalism. KONE has materials that comply these codes.
- Full customisation of elevator design is possible. KONE works with its visual design team to provide a design solution that is perfectly aligned with the architect's vision.

KONE has complete product portfolio for airports. KONE equipment complies with EN 12015 and EN 12016 standards and thus fulfills Electromagnetic compatibility (EMC) requirements:

- EN 12015 regulates the escape of electromagnetic energy from a product to the external environment
- EN 12016 regulates the level of shielding a product must have against electromagnetic disturbances in the surrounding environment.



KONE passenger elevator

KONE passenger elevators are designed to transport passengers and staff smoothly and energy-efficiently through airports.

- **Space efficiency** – maximum car sizes with minimum shaft dimensions. Increases passenger' convenience while saving construction costs
- **Accessibility** – easy to use for everybody not only for disabled
- **Reliable design** – gearless KONE EcoDisc® hoisting solution is reliable
- **Glamorous design** – wide selection of visually pleasing and durable materials and different glass cars available
- **Meets the requirements of EN81-71** – the code for vandal proof elevator interior materials
- **Fully customisation** of elevator design is possible – KONE works its visual design team to provide solution that is perfectly aligned with the architect's vision.



Car example for areas where EN81-71 code is not needed

CEILING
 Type: LF94 infra
 Finishing: Asturias Satin (F) stainless steel
 Light type: T5 fluorescent tubes

WALLS
 Back/Rear and side walls: Safety glass
 Front wall: Asturias Satin (F) stainless steel

FLOOR
 Rubber (RC7) coin-patterned

CAR OPERATING PANEL
 KSS 670
 Faceplate finishing:
 Asturias Satin (F) stainless steel
 (If signalisation is changed to KSS 140, car will be compliant with EN81-71 Category 1 and 2)

HANDRAIL
 HR41R stainless steel, rounded ends

SKIRTING
 Asturias Satin (F) stainless steel

KONE passenger elevator



Car example for areas where EN81-71 code is not needed

- CEILING**
Type: LF70
Finishing: Asturias Satin (F) stainless steel
Light type: T5 fluorescent tubes
- WALLS**
Back/Rear and side walls: Safety glass
Front wall: Asturias Satin (F) stainless steel
- FLOOR**
Rubber (RC7) coin-patterned
- CAR OPERATING PANEL**
KSS 670
Faceplate finishing: Asturias Satin (F) stainless steel
- HANDRAIL**
HR41TR stainless steel, rounded ends
- SKIRTING**
Asturias Satin (F) stainless steel

KONE service elevator

KONE service elevators are designed to move heavy loads.

- **Easy loading and unloading** – is ensured with accurate leveling of the elevator car
- **Full width doors** – for easy entry and maximum use of space in the car
- **Fast and durable hoisting and car interior** – to handle heavy duty use



Car is applicable with EN81-71 Category 1 and 2

- CEILING**
Type: LF94 infra
Finishing: Asturias Satin (F) stainless steel
Light type: T5 fluorescent tubes
- WALLS**
Scottish Quad (K) stainless steel
- FLOOR**
Tear plate (SS) stainless steel
- CAR OPERATING PANEL**
KSS 140
Faceplate finishing: Scottish Quad (K) stainless steel
- HANDRAIL**
HR41R stainless steel, rounded ends
- BUFFER RAIL**
PR6, stainless steel
- SKIRTING**
Asturias Satin (F) stainless steel

Visual options

* Applicable with vandal code EN81-71 Category 1
 ** Applicable also with vandal code EN81-71 Category 2

Ceilings

Painted metal

RAL 9010 Pure white

Stainless steel

F Asturias Satin **

Type: LF1
Finishing: Pure white (RAL 9010)
Light type: T5 fluorescent tubes **

Type: LF53
Finishing: Asturias Satin (F)
Light type: T5 fluorescent tubes

Type: LF70
Finishing: Asturias Satin (F)
Light type: T5 fluorescent tubes

Type: LF88
Finishing: Asturias Satin (F)
Light type: LED (round)

Type: LF94 infra **
Finishing: Asturias Satin (F)
Light type: T5 fluorescent tubes

Type: LF97/LF97M
Finishing: Asturias Satin (F)
Light type: LED (square frame)

Type: LF98M
Finishing: White painted, Asturias Satin (F) or Murano Mirror (H)
Lighting: LED spot lights (rectangular)

KES 600 / KES 800 door finishes

F Asturias Satin **

M Flemish Linen

K Scottish Quad

Z Zinc Coated **

Handrails

HR24R Flat rectangular stainless steel

HR41 Stainless steel

HR41R/ HR41TR Curved stainless steel **

Walls

Stainless steel

F Asturias Satin **

G Tahoe Leather

K Scottish Quad

M Flemish Linen

Zinc-coated steel

Z Local paint **

Safety glass

**

Coated metal

R1 Monterrey Silver

R10 Astoria Almond

Stainless steel combinations (narrow panels)*

F/G Asturias Satin and Tahoe Leather

F/D Asturias Satin and Arctic Mesh

Stainless steel combinations (wide panels)**

CM3: Pinstripe Navy (DS3) wide centre panel with Asturias Satin (F) narrow side panel

Glass with narrow stainless steel frame

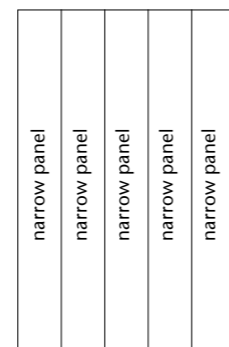
GC1: Siberian Glaze (GW1) with (F) Asturias Satin frames; available only with (F) side walls

GC2: Tokyo Glaze GW2 with (F) Asturias Satin frames; available only with (F) side walls

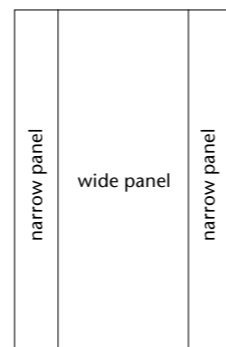
GC3: Berlin Glaze GW3 with (F) Asturias Satin frames; available only with (F) side walls

GC4: Manhattan Glaze GW4 with (F) Asturias Satin frames; available only with (F) side walls

Narrow panel layout*



Wide panel layout**



Buffer rails

Up to three buffer rails per wall

PR6 Stainless steel

Mirrors

Materials: Glass (smoked or clear)

Sizes:
 Partial width/Partial height (PW/PH)
 Full width/Partial height (FW/PH)
 Partial width/Full height (PW/FH)
 Full width /Full height (FW/FH)

Floors

Composite Stone

SF2 Diorite Black

SF5 Bianco Perla

SF21 Marble White

SF22 Pacific Blue

SF23 Ayres Red

Stainless steel

Tear plate SS **

Aluminium

Tear plate AL

Rubber

RC5 Detroit Grey

RC6 Dallas Black

RC9 Dayton Grey

Signalisation for airport elevators

Flush mounted, vandal resistant KSS 140 signalisation



KSC 143 FH



KSC 143 PH

Car Operating Panel (COP)

Faceplate finishing:
Scottish Quad (K) stainless steel
or Asturias Satin (F) stainless steel

Display:
Scrolling dot matrix

Floor buttons:
Max.16 floors

Landing devices



KSI 143



KSH 140



KSL 140

Note:
KONE KSS 140 signalisation is compliant with EN81-71 Category 1 and optionally with Category 2.

Surface mounted KSS 570 and flush mounted KSS 670 signalisation



KSC 673/675

Car Operating Panel (COP)

Faceplate finishings:

- Asturias Satin (F) stainless steel
- Murano Mirror (H) mirror polished stainless steel
- Golden mirror polished stainless steel, coated with titannitride*

Displays:
KSC 673 – Scrolling dot matrix
KSC 675 – Black and white LCD

Landing devices



KSI 573



KSA 573



KSH 570



KSL 570



KSI 673/675



KSA 673



KSH 660



KSH 670



KSL 670

Flush mounted KSS 970 signalisation



KSC 970*/973*/977

Car Operating Panel (COP)

Faceplate finishings:

- Asturias Satin (F) stainless steel
- Murano Mirror (H) mirror polished stainless steel
- Golden mirror polished stainless steel, coated with titannitride*

Displays:
KSC 970 – No display*
KSC 973 – Scrolling dot matrix*
KSC 977 – Full color LCD

Landing devices



KSI 977



KSI 983*/987*



KSH 940*



KSH 950*



KSH 960*



KSL 970

* Limited availability

Car and shaft dimensions

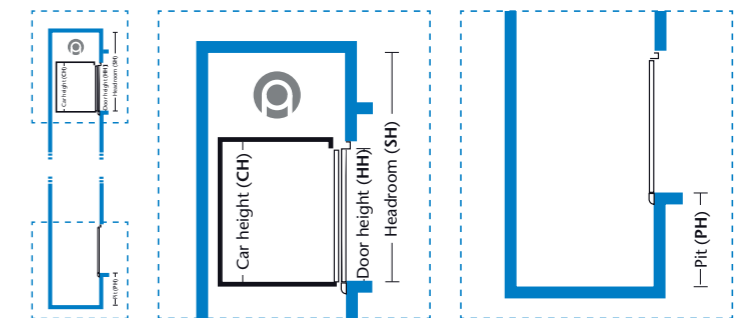
KONE MonoSpace													SEC = Single entrance car TTC = Through type car		
Load kg	Persons	Speed m/s	Max stops	Car type	Car size BBxDD mm	Door width LL mm	Car interior height CH mm	Shaft width WW mm		Shaft depth WD mm		Overhead SH mm	Pit depth PH mm	Comments	
								Door type ^{a)}		Door type ^{a)}		*)		*)	
								Centre	Side	Centre	Side				
1000	13	1.0 / 1.6 / 1.75 / 2.0	24	SEC	1600x1400	1100	2300	2350	2300	2000	2100	1.0 m/s 3850 1.6 m/s 3900 1.75 m/4200 2.0 m/s 4200	1.0 m/s SEC 1450, TTC 1400 1.6 m/s SEC 1600, TTC 1550 1.75 m/s 2000 2.0 m/s 2000	c), d), e), f), g), i)	
				TTC	1100x2050	900	2300	1950	1800	2510	2710				
1150	15	1.0 / 1.6 / 1.75 / 2.0	24	SEC	1800x1450	1000	2300	2500	-	2100	-	1.0 m/s 3850 1.6 m/s 3900 1.75 m/4200 2.0 m/s 4200	1.0 m/s SEC 1450, TTC 1400 1.6 m/s SEC 1600, TTC 1550 1.75 m/s 2000 2.0 m/s 2000	c), e), f), g), i)	
				SEC	1600x1550	1100	2300	2400	-	1850	-				
				SEC	1700x1500	1000	2300	2450	-	2100	-				
1275	17	1.0 / 1.6 / 1.75 / 2.0	24	SEC	1750x1600	1100	2300	2450	2450	2100	2200	1.0 m/s 3850 1.6 m/s 3900 1.75 m/4200 2.0 m/s 4200	1.0 m/s SEC 1450, TTC 1400 1.6 m/s SEC 1600, TTC 1550 1.75 m/s 2000 2.0 m/s 2000	c), e), f), g), i)	
				TTC	1300x2100	1100	2300	2350	2000	2510	2710				
1350	18	1.0 / 1.6 / 1.75 / 2.0	24	SEC	1600x1800	1100	2300	2350	2300	2200	2300	1.0 m/s 3850 1.6 m/s 3900 1.75 m/4200 2.0 m/s 4200	1.0 m/s SEC 1450, TTC 1400 1.6 m/s SEC 1600, TTC 1550 1.75 m/s 2000 2.0 m/s 2000	c), e), f), g), i)	
				TTC	1400x2050	1100	2300	2350	2100	2510	2710				
1600	21	1.0 / 1.6 / 1.75 / 2.0	24	SEC	2100x1600	1100	2300	2800	2800	2100	2200	1.0 m/s 3850 1.6 m/s 3900 1.75 m/4200 2.0 m/s 4200	1.0 m/s 1450 1.6 m/s 1700 1.75 m/s 2000 2.0 m/s 2000	c), e), f), h), i)	
				TTC	1600x2100	1100	2300	2350	2300	2510	2710				
1800	24	1.0 / 1.6 / 1.75 / 2.0	24	SEC	2350x1600	1200	2300	3050	3050	2100	2200	1.0 m/s 3850 1.6 m/s 3900 1.75 m/4200 2.0 m/s 4200	1.0 m/s 1700 1.6 m/s 1900 1.75 m/s 2100 2.0 m/s 2100	c), i)	
				TTC	1750x2100	1200	2300	2550	2450	2510	2710				
2000	26	1.0 / 1.6 / 1.75 / 2.0	24	SEC	2350x1700	1200	2300	3050	3050	2150	2250	1.0 m/s 3850 1.6 m/s 3900 1.75 m/4200 2.0 m/s 4200	1.0 m/s 1600 1.6 m/s 2000 1.75 m/s 2200 2.0 m/s 2200	c), i)	
				TTC	1850x2100	1200	2300	2550	2550	2510	2710				
2500	33	1.0 / 1.6	24	SEC	1800x2700	1300	2300	2550	2550	3150	3150	1.0 m/s 3850 1.6 m/s 3900	1.0 m/s 1600 1.6 m/s 1850	a), i)	
				TTC	1800x2650	1300	2300	2550	2550	3390	3310				

KONE MiniSpace													SEC = Single entrance car TTC = Through type car		
Load kg	Persons	Speed m/s	Max stops	Car type	Car size BBxDD mm	Door width LL mm	Car interior height CH mm	Shaft width WW mm		Shaft depth WD mm		Overhead SH mm	Pit depth PH mm	Comments	
								Door type		Door type		*)		*)	
								Centre	Side	Centre	Side				
630	8	1.0 / 1.6	24	SEC	1100x1400	900	2300	2300	-	2700	-	1.0 m/s 4300 1.6 m/s 4400	1.0 m/s 1400 1.6 m/s 1600		
				TTC	-	-	-	-	-	-	-				
1000	13	1.0 / 1.6	24	SEC	1300x1800	900	2300	2300	-	2700	-	1.0 m/s 4300 1.6 m/s 4400	1.0 m/s 1400 1.6 m/s 1600		
				TTC	-	-	-	-	-	-	-				

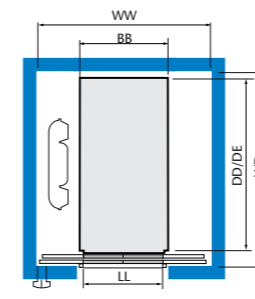
KONE TranSys													SEC = Single entrance car TTC = Through type car		
Load kg	Persons	Speed ^{b)} m/s	Max stops	Car type	Car size BBxDE mm	Door width LL mm	Car interior height CH mm	Shaft width ^{b)} WW mm		Shaft depth ^{b)} WD mm		Overhead SH mm	Pit depth ^{c), d)} PH mm	Comments	
								Door type		Door type		*)		*)	
								Centre	Side	Centre	Side				
1600	21	0.5 / 1.0	12	SEC	1400x2400	1400	2300	2550	2550	2800	2800	3900	1350	a), m)	
				TTC	1400x2400	1400	2300	2550	2550	2950	2950				
1800	24	0.5 / 1.0	12	SEC	1400x2500	1400	2300	2550	2550	2900	2900	3900	1350	a), m)	
				TTC	1400x2500	1400	2300	2550	2550	3050	3050				
2000	26	0.5 / 1.0	12	SEC	1500x2700	1500	2300	2550	-	3100	-	3900	1350	b), m)	
				TTC	1500x2700	1500	2300	2550	-	3250	-				
2500	33	0.5 / 1.0 / 1.6	12	SEC	1800x2700	1800	2300	3050	-	3100	-	4100	0.5 m/s 1600 1.0 m/s 1600 1.6 m/s 1700	b), n)	
				TTC	1800x2700	1800	2300	3050	-	3250	-				
3000	40	0.5 / 1.0 / 1.6	12	SEC	2000x2750	2000	2300	3250	-	3150	-	4100	0.5 m/s 1600 1.0 m/s 1600 1.6 m/s 1700	b), o)	
				TTC	2000x2750	2000	2300	3250	-	3300	-				
3500	46	0.5 / 1.0	12	SEC	2100x3000	2100	2300	3350	-	3400	-	4100	1850	b), o)	
				TTC	2100x3000	2100	2300	3350	-	3550	-				
4000	54	0.5 / 1.0	12	SEC	2100x3400	2100	2300	3350	-	3800	-	4100	1850	b), o)	
				TTC	2100x3400	2100	2300	3350	-	3950	-				
4500	60	0.5 / 1.0	12	SEC	2500x3100	2500	2300	3900	-	3500	-	4500	2100	b), o)	
				TTC	2400x3300	2400	2300	3750	-	3850	-				
5000	67	0.5 / 1.0	12	SEC	2500x3500	2500	2300	3900	-	3900	-	4500	2100	b), o)	
				TTC	2400x3650	2400	2300	3750	-	4200	-				

*) Dimensions are acc. to max. speed & CH=2300. For other selections, please consult the local KONE sales representative.

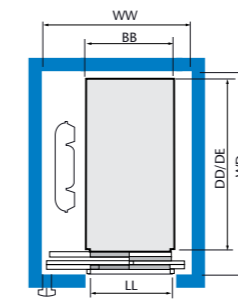
- a) 4 panels centre opening/2 panels side opening
- b) 4 panels centre opening only (LLmax = 1500 for 2 panels centre/side opening)
- c) 2 panels centre opening/2 panels side opening
- d) Dimensions are with MX14 machine (or MX20-light)
- e) LLmin=1200 for 4 panels centre opening
- f) 1,0 m/s PH=1500 when travel H > 30 m
- g) 1000 kg, 1275 kg & 1350 kg TTC: 1,6 m/s PH=1600 when travel H > 50 m
- h) 1600 kg, 1,6 m/s: PH = 1800 when travel > 50 m
- i) In case of cwt safety gear PH + 200 mm
- m) With cwt safety gear PH=1750 mm
- n) With cwt safety gear PH = 2150 mm
- o) Cwt safety gear not available



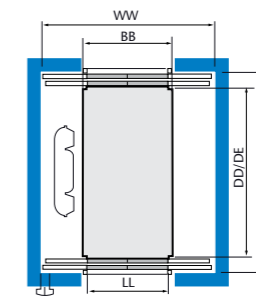
1275 kg / 17 persons
Single entrance / centre opening



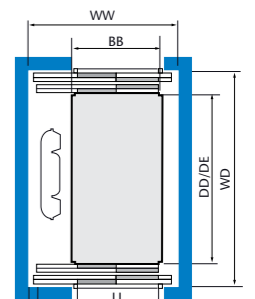
1275 kg / 17 persons
Single entrance / side opening



1275 kg / 17 persons
Through type / centre opening



1275 kg / 17 persons
Through type / side opening







KONE provides innovative and eco-efficient solutions for elevators, escalators, doors, loading bays and access. We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernisation. 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 MaxiSpace™, KONE InnoTrack™ and KONE UniDrive™. You can experience these innovations in architectural landmarks such as 30 St. Mary Axe and Broadgate and 201 Bishopsgate buildings, BAA Terminal 5, Emirates Stadium, Brunel University, Citigroup, Jubilee Line and St. Georges Wharf.

KONE employs approximately 35,000 dedicated experts to serve you globally and locally in 50 countries.

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