

*Dedicated to People Flow™*



FOR BETTER BUSINESS FLOW IN COMMERCIAL AND PUBLIC ACCESS BUILDINGS

# KONE MonoSpace® C-series



# KONE C-series elevator solutions

KONE C-series elevators meet the most diverse people flow requirements in commercial and public access buildings. The KONE C-series simplifies your choice and speeds up the entire delivery process, from effective people flow planning, to attractive visual design, to options that fine-tune the complete elevator.

## **Eco- and space efficiency**

KONE C-series elevators are built on one hoisting platform: the machine-room-less KONE MonoSpace®. The heart of this platform is the KONE EcoDisc®, which saves both space and energy.

## **Benefits**

- Designed for commercial and public access environments
- KONE MonoSpace machine-room-less platform
- Energy efficient and space saving KONE EcoDisc drive
- Wide range of visual design options
- Accessibility, security and traffic handling options
- Fast installation process

## **KONE Design Collection – a whole new look**

The KONE Design Collection is a design concept that creates a harmonious set of elevator interiors that match any architectural context. Choose from the KONE Design Collection, or mix and match the components to create countless design possibilities. For more details please refer to the KONE MonoSpace Design Collection.

## **Optimise the functionality**

To optimise the functionality, the KONE C-series offers several options for energy-efficiency, accessibility, security and traffic handling.

# Choose your KONE solution

It takes a lot of experience to make elevator selection this fast and flexible. Start with your building's specifications and people flow requirements to select the platform. Choose the car interior design that creates the ideal ambiance for your building. Then select additional options to suit the specific requirements of your building.

## Capacity

**Step 1** The right elevator solution is defined by your building specifications and transportation needs. These define the group size and elevator platform together with the capacity of the elevators.



## Interior

**Step 2** To meet the design standards of buildings, KONE offer a wide range of KONE Design Collection interiors to provide the best possible solution for any building or budget.

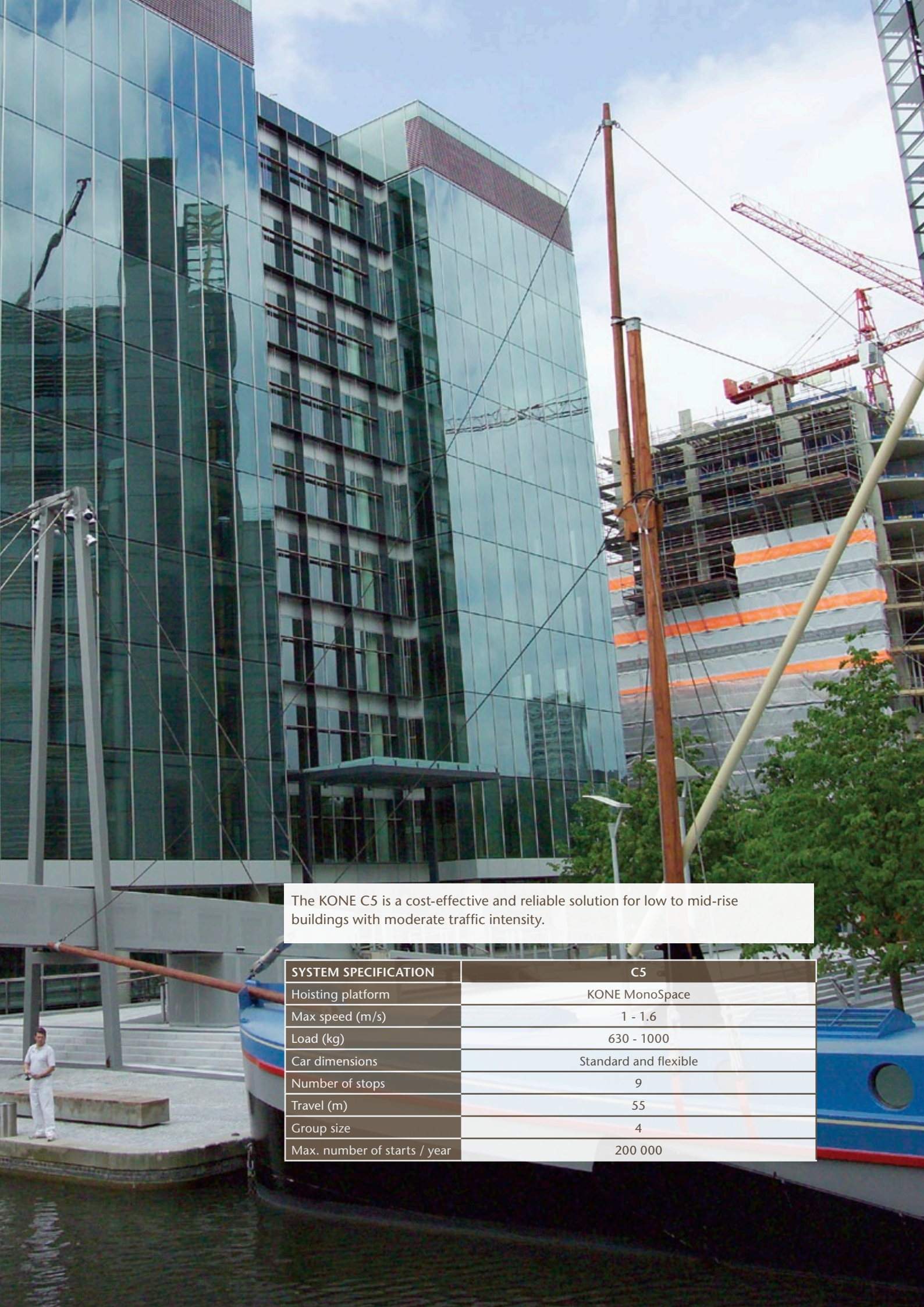


## Options and accessories

**Step 3** Options and accessories optimise the chosen solution to application-specific needs and maximise performance. You can refine the system with selected features such as Accessibility, Eco-efficiency or Security.

The KONE C-series can be built to comply with local building regulations and European standard EN81-70 relating to disabled access and can additionally be specified to comply with fire-related standards EN81-72 and EN81-73.





The KONE C5 is a cost-effective and reliable solution for low to mid-rise buildings with moderate traffic intensity.

SYSTEM SPECIFICATION	C5
Hoisting platform	KONE MonoSpace
Max speed (m/s)	1 - 1.6
Load (kg)	630 - 1000
Car dimensions	Standard and flexible
Number of stops	9
Travel (m)	55
Group size	4
Max. number of starts / year	200 000

# KONE raises eco-efficiency to new heights

## How much can you save by selecting right?

KONE C-series elevators can reduce the total energy consumption of the elevator by as much as two-thirds or even more. For example, a KONE C-series elevator, with the KONE MonoSpace™ platform and the KONE EcoDisc® drive, uses a total of about 6900 kWh of electricity a year – about half as much as a DC gearless elevator and one-third as much as a geared AC elevator. With additional energy-saving features, this energy consumption can be reduced still further.

### Regenerative drive

When the car is going down with a heavy load, it contains potential energy. The regenerative drive option recovers this energy. It can save up to 20% of the energy consumed by a typical 10 person KONE MonoSpace elevator.

### Put to sleep when not in use

In today's elevators, lights, signalisation and ventilation can consume a considerable amount of electricity even when the elevator is not moving. KONE energy-efficient options supervise elevator usage and set the devices to sleep mode during inactive periods to minimise total energy consumption.

### Eco-efficient car lighting

To save energy used for car lighting halogen lights have been replaced by LED spot lights. LED lights consume 80% less electricity than halogen lights and last up to 10 times longer. Modern fluorescent light technology is also available for KONE C-series elevators.

### A green hoisting system

The KONE EcoDisc hoisting machine-made DC gearless and energy-hungry geared hoisting machines obsolete. The KONE EcoDisc permanent magnet synchronous machine, together with a vector controlled drive system and regenerative options, provides the highest total efficiency and minimises both mechanical and electrical losses.

### KONE Destination Control System saves time and energy.

The KONE Destination Control System saves energy by optimising passenger traffic flow. The system selects a chosen elevator car for travel determined by passenger destination, grouping passengers together when they select the same floor. Energy saving benefits are achieved from the reduction of intermediate stops.

Options subject to request



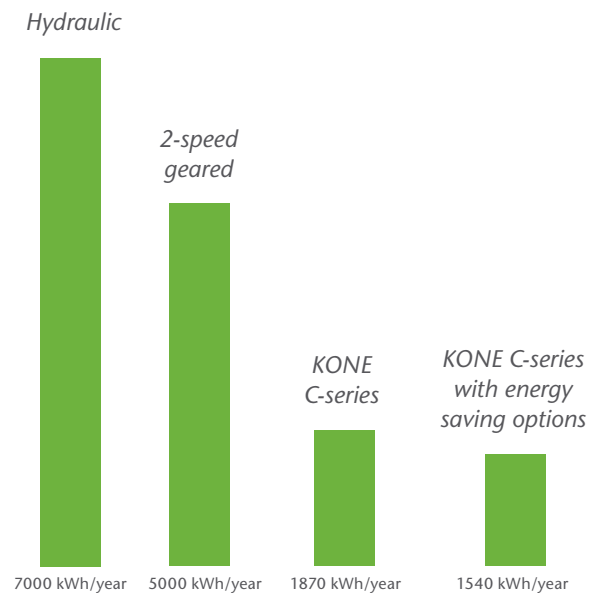
### KONE EcoDisc regenerates electricity

KONE EcoDisc, together with a regenerative drive option, works as a generator when a heavy car is returned to ground floor or empty car going up. Instead of turning the braking energy to heat, the electricity is fed back into the network.

### Energy efficient lighting can look good

LED lights are used in many KONE C-series ceilings. This technology is extremely energy efficient, while offering attractive ceiling alternatives. Also modern fluorescent light alternatives can result in energy savings of more than 50% compared to previous generation fluorescent lights.

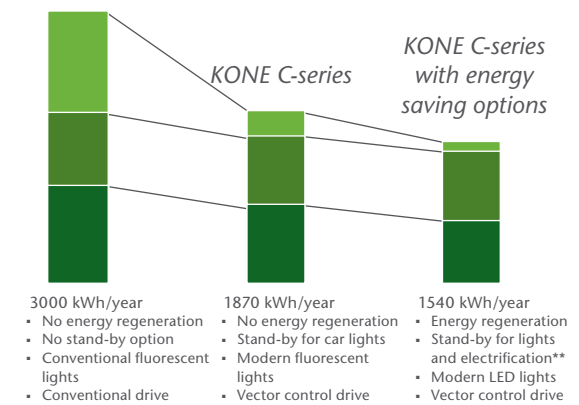
### Average Energy Consumption\*



\* The basis for the calculations is: an elevator speed of 1.0 m/s (0.63 for hydraulic), a load of 630 kg (8 persons) and 200,000 starts/year.

- Car lighting
- Electrification
- Hoisting

### Typical modern MRL elevator



- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>• No energy regeneration</li> <li>• No stand-by option</li> <li>• Conventional fluorescent lights</li> <li>• Conventional drive</li> </ul> | <ul style="list-style-type: none"> <li>• No energy regeneration</li> <li>• Stand-by for car lights</li> <li>• Modern fluorescent lights</li> <li>• Vector control drive</li> </ul> | <ul style="list-style-type: none"> <li>• Energy regeneration</li> <li>• Stand-by for lights and electrification**</li> <li>• Modern LED lights</li> <li>• Vector control drive</li> </ul> |
|---|--|---|

\*\* Includes light, fan, signalisation, drive.



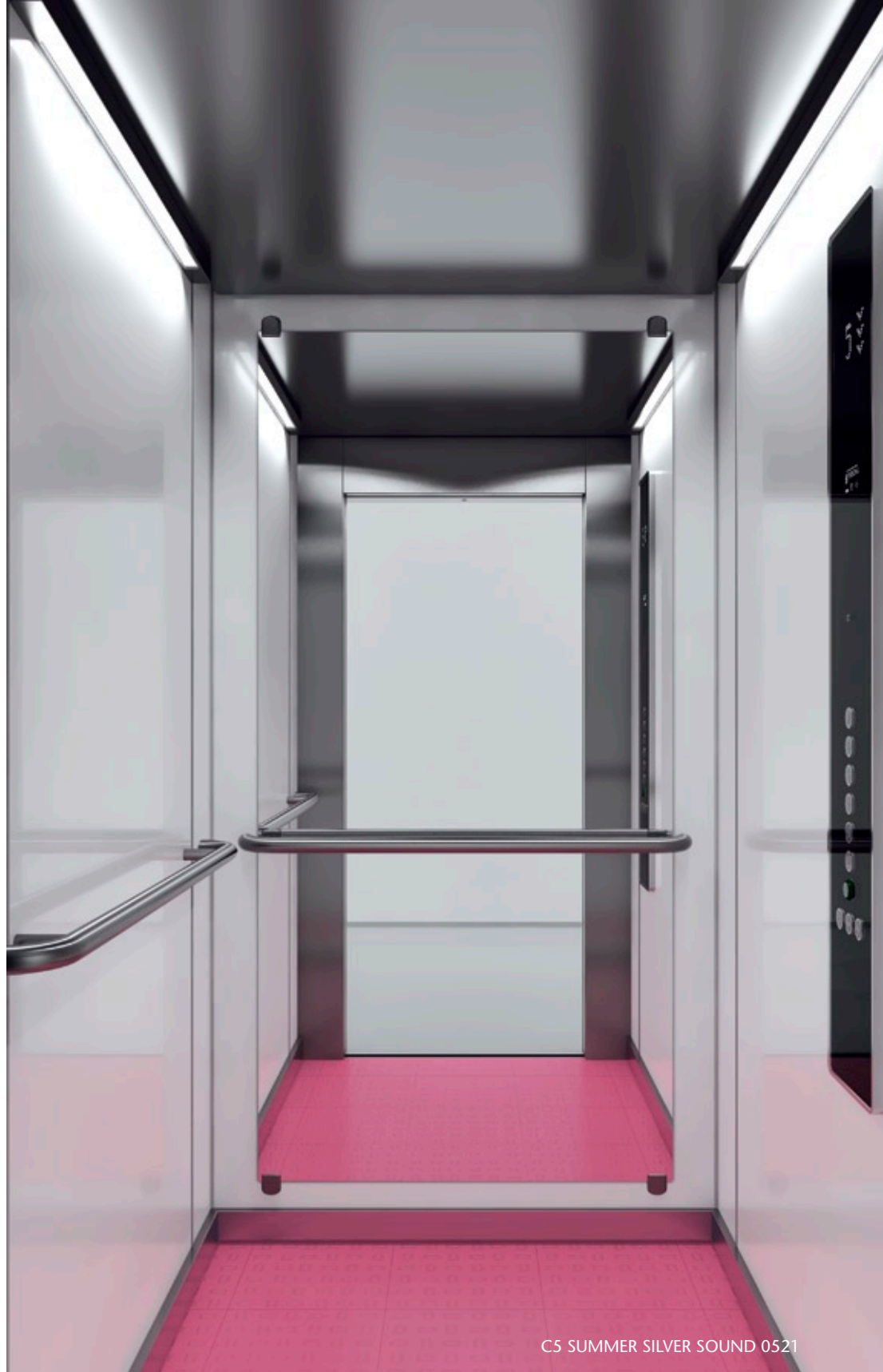
C5 SPRING SILVER SOUND 0521



C5 AUTUMN SILVER SOUND 0531



C5 WINTER SILVER SOUND 0541



C5 SUMMER SILVER SOUND 0521

# KONE – the customer's choice

The value of your building depends on the impression it gives visitors and employees. The first impression is the one that lasts and the elevator plays an important role in this.

KONE's wide selection of designs and materials enables you to easily find the right car interior ambience to match your building's style.



C5 SPRING METALIC MAGIC 0551



C5 WINTER METALIC MAGIC 0581



C5 SUMMER SILVER SOUND 0561



C5 AUTUMN METALIC MAGIC 0571

The KONE FourSeasons™ car interior family for KONE MonoSpace® elevators represent the four seasons of Spring, Summer, Autumn and Winter.

You can achieve the desired mood for your car interior by selecting from a designer's collection of complete car interior design solutions. You also have the freedom to

mix and match the components in order to create thousands of combinations. KONE can also provide custom-made interiors to meet your unique design requirements.

Please refer to the KONE MonoSpace Design Collection book.

# Out of sight, out of mind - safe & speedy installation

## **Out of your sight and out of your way**

The absence of a machine room not only saves construction costs, it also improves installation speed and efficiency. An additional benefit during construction is that disruption to critical paths by our installation teams and equipment are kept to an absolute minimum. Improving the installation process has been an integral part of the development of the KONE MonoSpace®.

## **No need for cranes or scaffolding**

Installation efficiency is ensured by a unique scaffold-free installation system that offers an unrivalled degree of time-saving, safety and flexibility and avoids cranes. It also minimises disruption to other trades, as most of the work is done inside the well.

## **Dedicated tools and instruments**

State-of-the-art tools are used for measurement and adjustments to assure not only smooth and efficient installation, but also for a smooth and quiet ride.

## **Efficient project management**

A KONE Project Supervisor will handle the co-ordination of the entire installation process from beginning to end, ensuring completion on time and within budget.

## **Interruption-free installation**

To assure smooth and interruption-free operation for both parties, KONE have established the Site Essentials, a mutual agreement and check list for readiness.







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™.

On a local level KONE Ireland has developed an impressive project portfolio over the years and has developed many close customer relationships. With our experienced team of technicians, engineers and sales executives we provide a high quality and customer focused approach to installation and maintenance solutions.

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

## **KONE Ireland**

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