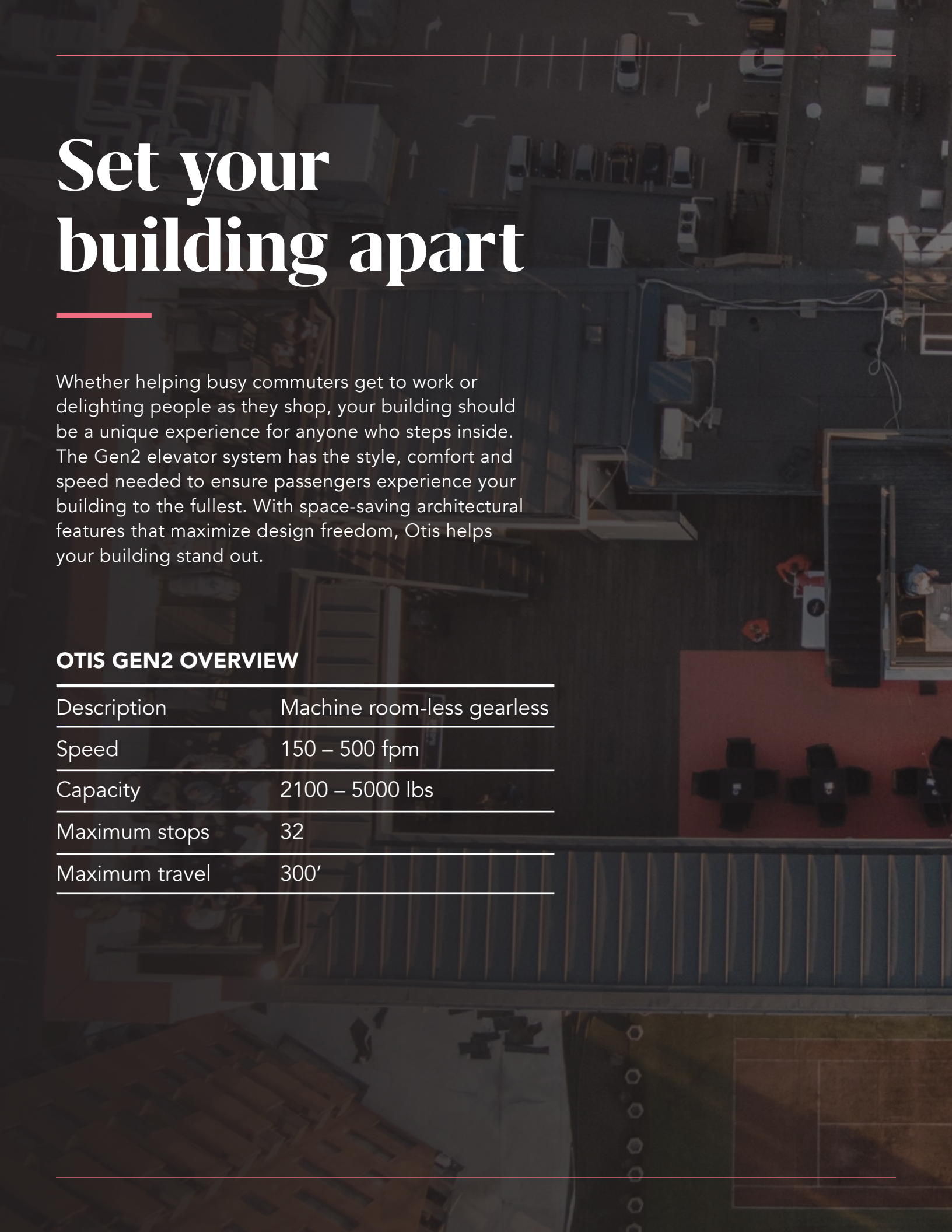
GEN2® ELEVATOR SYSTEM

Experience the exceptional

OTIS



Set your building apart

Whether helping busy commuters get to work or delighting people as they shop, your building should be a unique experience for anyone who steps inside. The Gen2 elevator system has the style, comfort and speed needed to ensure passengers experience your building to the fullest. With space-saving architectural features that maximize design freedom, Otis helps your building stand out.

OTIS GEN2 OVERVIEW

Description	Machine room-less gearless
Speed	150 – 500 fpm
Capacity	2100 – 5000 lbs
Maximum stops	32
Maximum travel	300’

Design without limits

Gen2 technology is sized to fit inside the wall of the top elevator landing – eliminating the need for a control room. So whether you want to impress visitors with an expansive lobby or offer tenants a larger space, Gen2 gives you the room to bring your vision to life.

COMPACT DESIGN
Gen2 technology eliminates machine room space and cost for greater architectural design freedom.

COMPACT CONTROLLER
Sized to fit inside the wall of the top elevator landing, the controller can be accessed by an attractive, concealed test panel.

MAXIMIZED SPACE SAVINGS
Flexible coated steel belts allow a smaller machine sheave, reducing machine size by 80 percent and raising efficiency up to 50 percent.

Your elevator, your style

From modern aesthetics to classic interiors, Gen2 can be tailored to fit your style. Our robust design has the ability to carry luxury aesthetic materials, allowing you to create a cab interior to match your design style. And if you're faced with architectural challenges such as moving large loads or dimensional constraints, our team will work with you to create a design solution for your project.

ARCHITECT'S ASSISTANT
Helps you select the right elevator solution and create drawings and specifications tailored to your project.

CABCREATE™
Offers choices of finishes and materials, so you can create a memorable, individual elevator with every detail.

BIMCREATE
Creates customizable, configured 3D Revit® files for integration into overall building plans versus selecting from pre-existing files.

Access these time-saving design tools and more at **www.otis.com**.

A smarter way to move throughout your day

Even short moments of waiting can feel like a lifetime. Otis reimagined how to navigate seamlessly through your building. With CompassPlus destination dispatch, we put personalized technology at your passengers' fingertips. CompassPlus creates an upscale, concierge-like experience that keeps everyone on the move.

IMPROVED TRAFFIC
SmartGrouping organizes people to get them to their destinations up to 50 percent faster than conventional dispatching, while making minimal stops. This system adjusts dynamically based on your building's needs throughout the day.

INTUITIVE DESIGN
Our CompassCreate™ software provides an array of eye-catching screen options that intuitively navigate people throughout the building.

SMARTPHONE ACCESS

Call your elevator even before you get to the elevator bank with the eCall™ smartphone app.

SECURITY

eCall can be integrated with any third-party building security system and accommodates both external and built-in security ID readers.

CUSTOMIZATION

Personalize your passenger experience with custom messages – shown hourly, daily, weekly or for special occasions. And complement your building's style with buttons, colors, fonts and imagery of your choice.

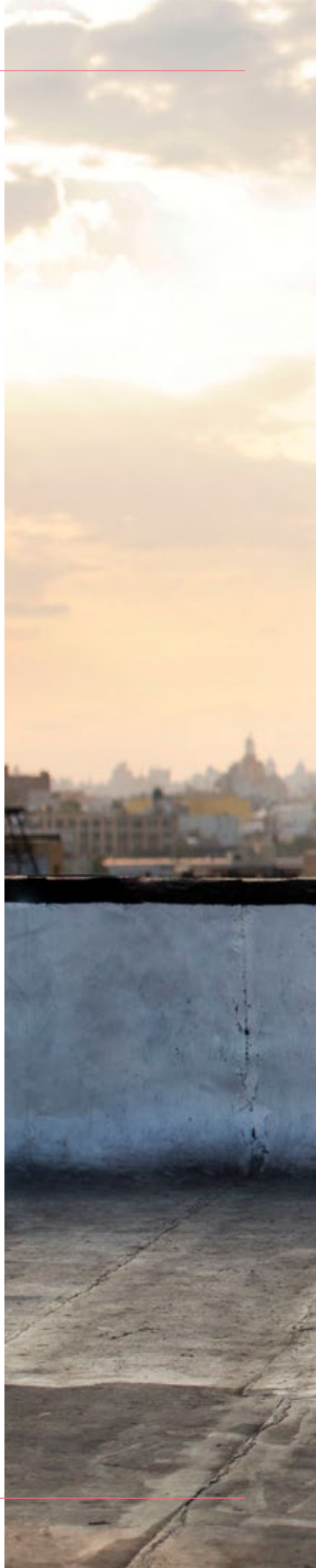
Your comfort is our focus

We sharpened our focus on speed and performance without compromising comfort. We reduced metal-on-metal contact and dampened vibrations to ensure the Gen2 ride is smooth and quiet.

SWIFT MOVEMENT
High-performance door operators and superior car acceleration allow passengers to enter and exit elevators more quickly.

SMOOTH COATED STEEL BELTS
The steel belts eliminate the noise created by the metal-on-metal contact from conventional steel ropes.

LOW-NOISE GEARLESS MACHINE
Mounted on isolation rubber pads, the low-noise gearless machine reduces vibration and minimizes noise in adjacent rooms.



Reliable, as expected

Some of the world's most distinguished buildings trust in Gen2 technology. Manufactured exclusively at our ISO-certified factories, the Gen2 system is the result of our most advanced thinking, global experience and deep engineering expertise. You can be sure you're getting exceptional Otis performance day after day.

PULSE
The Pulse System continuously monitors the elevator's coated steel belts to safeguard their integrity, ensuring safe, efficient operation and reduced inspection downtime.

AUTOMATIC RESCUE OPERATION
Battery-powered systems deliver passengers safely to the nearest floor during a power failure.

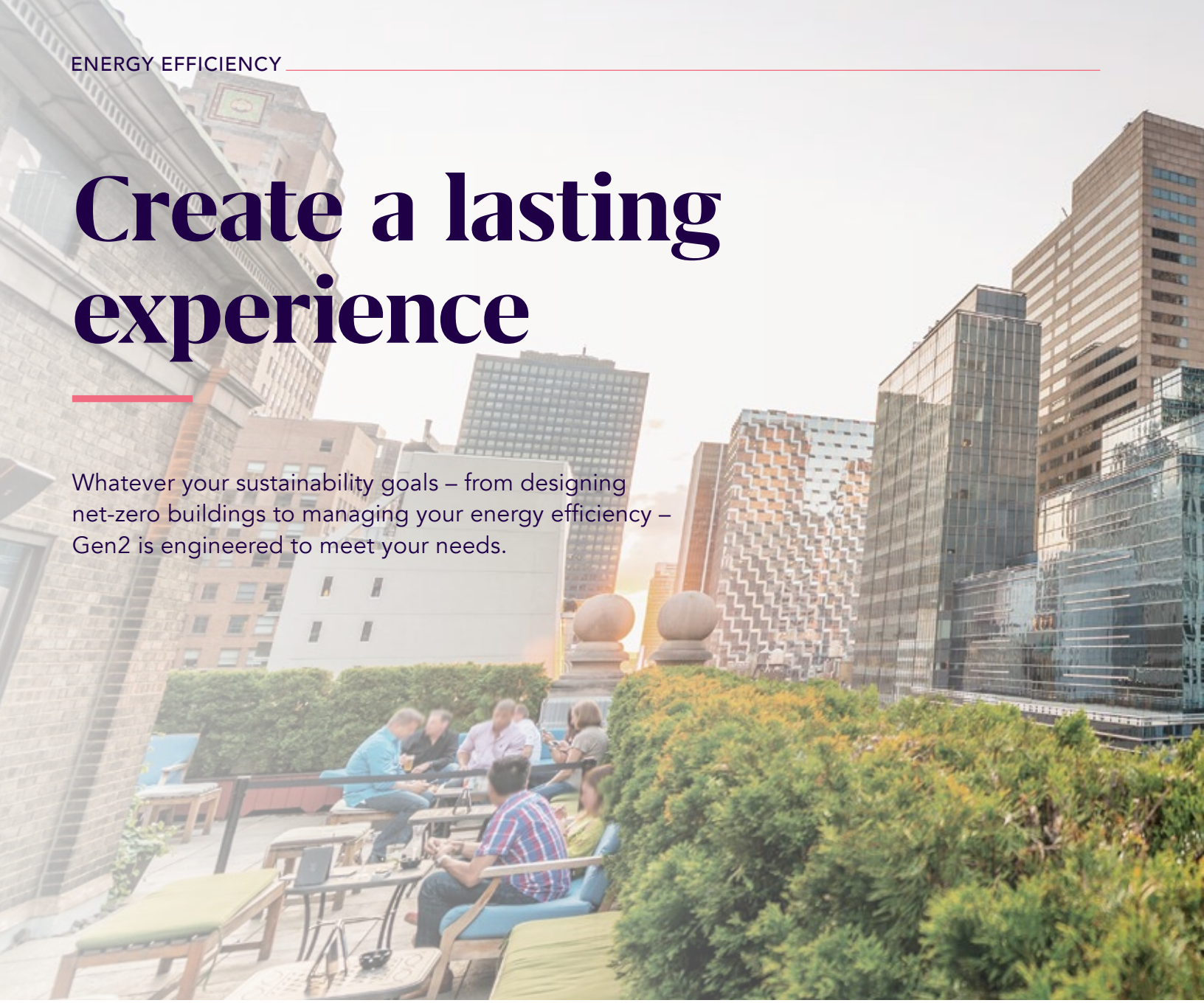
ENHANCED SEISMIC PROTECTION
Coated steel belts and a uniquely designed machine sheave work together to provide greater stability during seismic activity.

‘MADE IN OTIS’

From taking travelers to their next adventure to helping commuters move about their day, Otis moves billions of people to their destinations. Our facility in Florence, South Carolina, is one of our global manufacturing centers of excellence, serving customers across North America. From this state-of-the-art facility we innovate, test and improve the Otis equipment you’ll find in some of the world’s most iconic buildings.

Create a lasting experience

Whatever your sustainability goals – from designing net-zero buildings to managing your energy efficiency – Gen2 is engineered to meet your needs.



REGEN™ DRIVE

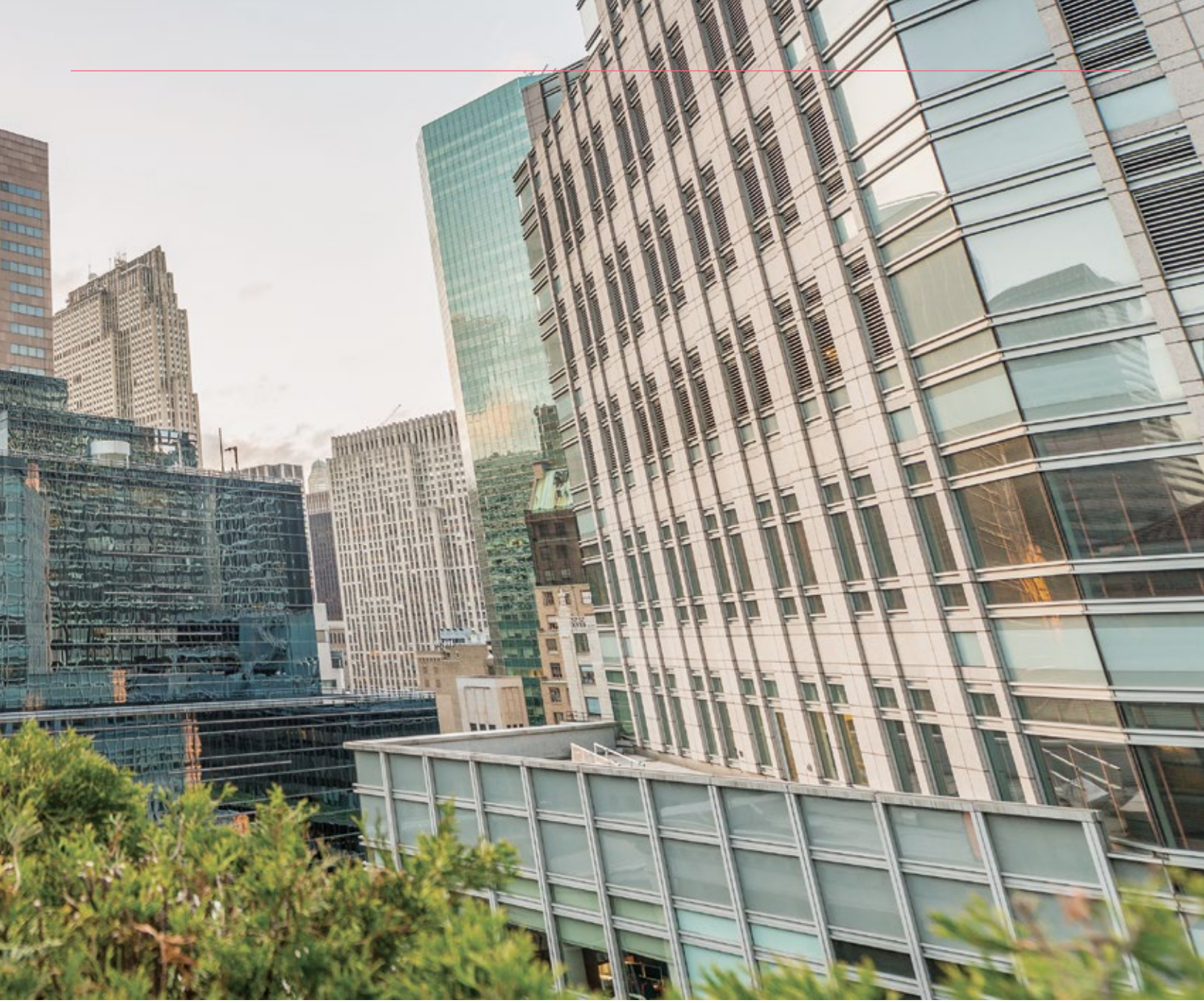
75%

more efficient than conventional geared systems with non-regenerative drives, while providing clean power to help run other building systems.

LED LIGHTING

10x

longer lifespan of Gen2 LED lighting compared to conventional fluorescent lamp.



LUBRICATION

ZERO

coated steel belt and machine lubrication needed, providing for a cleaner hoistway and elevator environment.

SLEEP MODE

75%

more efficient LED energy usage with sleep mode – lights and fans shut down when not in use and are automatically restarted with the touch of a button.

We're with you from concept to completion

Creating a unique experience for tenants and customers takes a lot of thought, planning and coordination. Thankfully you don't have to do it alone. For over 160 years, we've helped customers all around the world reach new heights while helping billions of passengers arrive at their destinations every day. So from detailed project planning to ongoing service, we're here to help you every step of the way.

PROJECT DESIGN
We consider architectural solutions, traffic analysis, product specifications and value engineering to help craft and deliver on your vision.

SPECIALIZED INSTALLATION PLANNING
Our team helps at every step of the installation process, from coordinating contractors to monitoring specialized safety reviews to delivering a smooth handover when the project is complete.

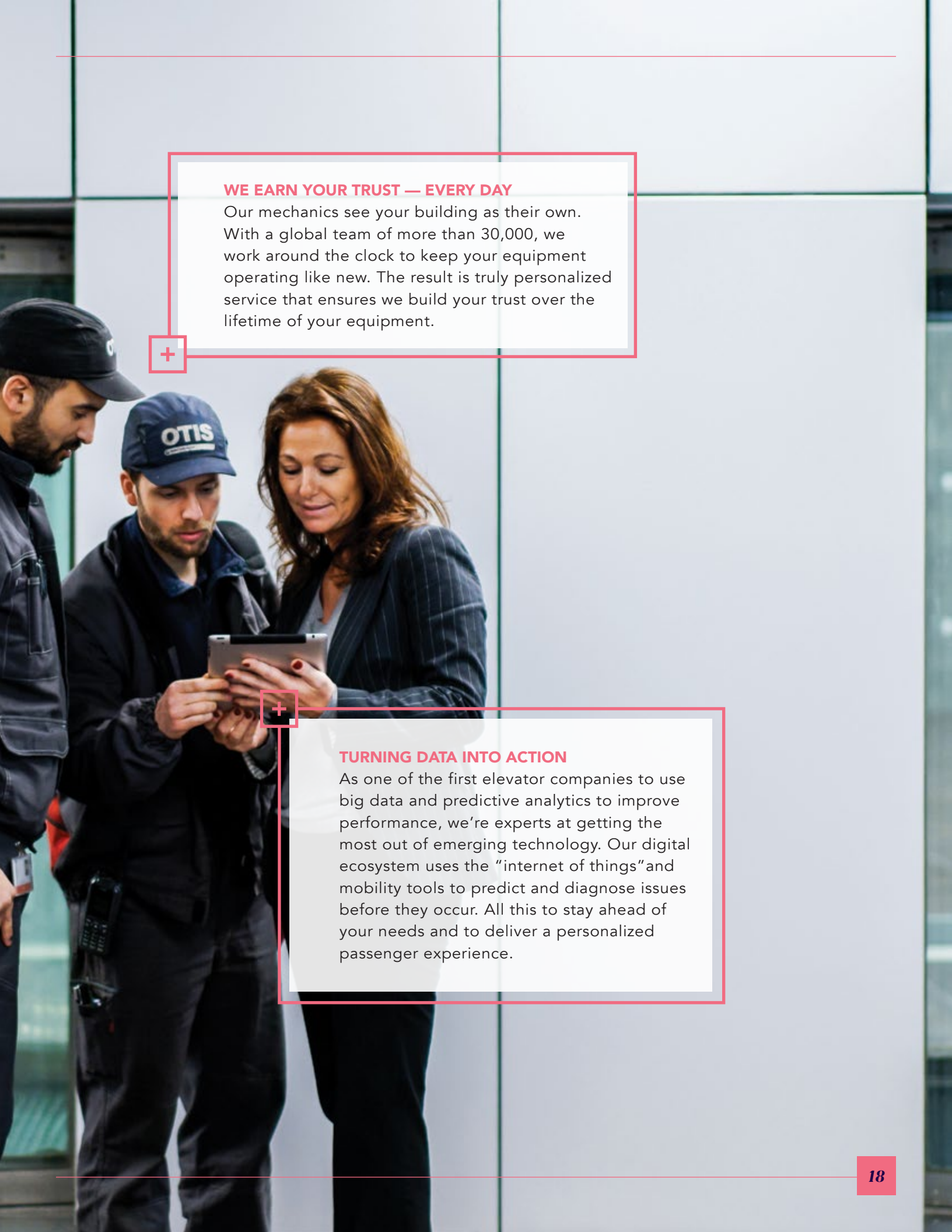

OTIS
OTIS

A commitment to exceptional service

We know what it takes to keep people moving safely and smoothly. Our founders were dedicated to delivering extraordinary service, and today we're continuing that promise with personalized and imaginative ways to meet our customers' every need.

Benefit from the industry's leading service offering, featuring 24/7 dedicated customer support through OTISLINE®, more intuitive access to information with the eService customer portal and our personal commitment to always put your needs first.

Signature Service



WE EARN YOUR TRUST — EVERY DAY

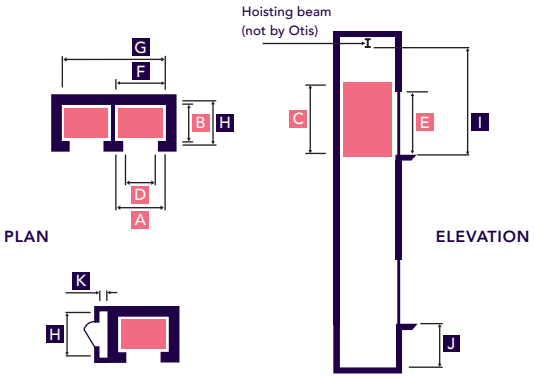
Our mechanics see your building as their own. With a global team of more than 30,000, we work around the clock to keep your equipment operating like new. The result is truly personalized service that ensures we build your trust over the lifetime of your equipment.

TURNING DATA INTO ACTION

As one of the first elevator companies to use big data and predictive analytics to improve performance, we're experts at getting the most out of emerging technology. Our digital ecosystem uses the "internet of things"and mobility tools to predict and diagnose issues before they occur. All this to stay ahead of your needs and to deliver a personalized passenger experience.

Underslung systems

Travel height maximum	80′ (24 m)	100′ (30 m)	150′ (45 m)
Maximum stops	10	13	16
Speed (fpm)	150 (0.76 m/s)	200 (1.02 m/s)	350 (1.78 m/s)



Passenger

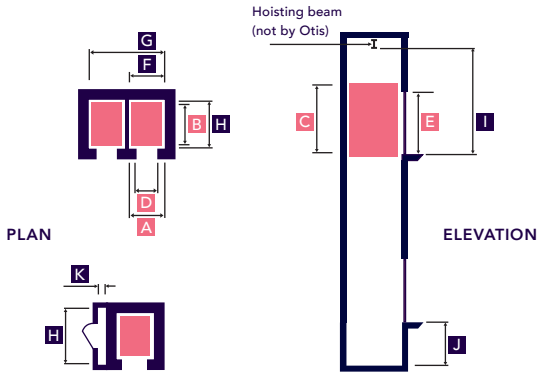
	Rated duty	2100 lbs (953 kg)	2500 lbs (1134 kg)	3000 lbs (1361 kg)	3500 lbs (1588 kg)	4000 lbs (1814 kg)[2]
A	Clear car width[1]	5′-8 5⁄16″ (1735 mm)	6′-5 9⁄16″ (1970 mm)			7′-5 9⁄16″ (2275 mm)
B	Clear car depth for front openings[1]	4′-3 9⁄16″ (1309 mm)		5′-0 3⁄16″ (1528 mm)	5′-5 9⁄16″ (1665 mm)	
	Clear car depth for front & rear openings[1]	4′-4 1⁄8″ (1324 mm)		5′-0 3⁄4″ (1543 mm)	5′-6 1⁄8″ (1680 mm)	
C	Cab height[3]	7′-9″ (2362 mm) or 9′-9″ (2972 mm)				
D	Door width	3′-0″ (914 mm)	3′-6″ (1067 mm)			4′-0″ (1219 mm)
	Door type	Single Slide	Center Opening or Single Slide			Center Opening
E	Door height	7′-0″ (2134 mm) or 8′-0″ (2438 mm)				
F	Hoistway single width[9,10] non-seismic	7′-7″ (2311 mm)	8′-4″ (2540 mm)			9′-4″ (2845 mm)
	Hoistway single width[9,10] seismic	7′-9″ (2362 mm)	8′-6″ (2591 mm)			9′-6″ (2896 mm)
G	Hoistway double width[7,9,10] non-seismic	15′-6″ (4724 mm)	17′-0″ (5182 mm)			19′-0″ (5791 mm)
	Hoistway double width[7,9,10] seismic	15′-10″ (4826 mm)	17′-4″ (5283 mm)			19′-4″ (5893 mm)
H	Hoistway depth for front openings	5′-9″ (1753 mm)		6′-4″ (1930 mm)	6′-11″ (2108 mm)	
	Hoistway depth for front & rear openings	6′-3 1⁄4″ (1911mm)		6′-11 7⁄8″ (2130 mm)	7′-5 1⁄4″ (2267 mm)	

I	Clear overhead to hoist beam[4,5]	150 fpm (0.76 m/s)	200 fpm (1.02 m/s)	350 fpm (1.78 m/s)
	7′-9″ (2362 mm) Cab height	12′-7″ (3836 mm)	12′-8″ (3861 mm)	13′-7″ (4140 mm)
	9′-9″ (2972 mm) Cab height	14′-7″ (4445 mm)	14′-8″ (4471 mm)	15′-7″ (4750 mm)
J	Minimum pit depth[6,8]	4′-0″ (1219 mm) or 5′-0″ (1524 mm)		4′-6″ (1372 mm) or 5′-6″ (1676 mm)

K	Optional control closet or room[7]	
	Control closet	Hoistway depth x 3′-10″ (1168 mm)
	Control room	Hoistway depth x 5′-9″ (1753 mm)
	Control room–duplex	Hoistway depth x 7′-6″ (2286 mm)

IMPORTANT:
To assist in your planning, we recommend that you call your Otis representative at the beginning of the project.

Travel height maximum	**80′** (24 m)	**150′** (45 m)	**150′** (45 m)
Maximum stops	**10**	**16**	**16**
Speed (fpm)	**150** (0.76 m/s)	**200** (1.02 m/s)	**350** (1.78 m/s)



Service

	Rated duty	4000 lbs (1814 kg)[2]	4500 lbs (2041 kg)[2]	5000 lbs (2268 kg)[2]	5000 lbs AIA (2268 kg)[2]
A	Clear car width[1]	5′-5 $^{9}/_{16}$″ (1655 mm)		5′-11 $^{5}/_{16}$″ (1811 mm)	5′-8 $^{5}/_{16}$″ (1735 mm)
B	Clear car depth for front openings[1]	7′-4 $^{7}/_{8}$″ (2258 mm)	7′-10 $^{15}/_{16}$″ (2411 mm)	8′-4 $^{3}/_{16}$″ (2544 mm)	9′-0 $^{1}/_{8}$″ (2747 mm)
	Clear car depth for front & rear openings[1]	7′-5 ½″ (2273 mm)	7′-11 ½″ (2426 mm)	8′-4 ¾″ (2559 mm)	9′-0 ¾″ (2762 mm)
C	Clear cab height[3]	7′-9″ (2362 mm) or 9′-9″ (2972 mm)			
D	Door width	4′-0″ (1219 mm)		4′-6″ (1372 mm)	
	Door type	Two-Speed			
E	Door height	7′-0″ (2134 mm) or 8′-0″ (2438 mm)			
F	Hoistway single width[9,10] non-seismic	7′-4″ (2235 mm)		7′-10″ (2388 mm)	7′-11″ (2413 mm)
	Hoistway single width[9,10] seismic	7′-6″ (2286 mm)		8′-0″ (2438 mm)	8′-1″ (2464 mm)
G	Hoistway double width[7,9,10] non-seismic	15′-0″ (4572 mm)		16′-0″ (4877 mm)	16′-2″ (4928 mm)
	Hoistway double width[7,9,10] seismic	15′-4″ (4674 mm)		16′-4″ (4978 mm)	16′-6″ (5029 mm)
H	Hoistway depth for front openings	9′-1″ (2769 mm)	9′-7″ (2921 mm)	10′-1″ (3073 mm)	10′-8″ (3251 mm)
	Hoistway depth for front & rear openings	9′-10 ½″ (3009 mm)	10′-4 ½″ (3162 mm)	10′-9 ¾″ (3295 mm)	11′-5 $^{11}/_{16}$″ (3498 mm)

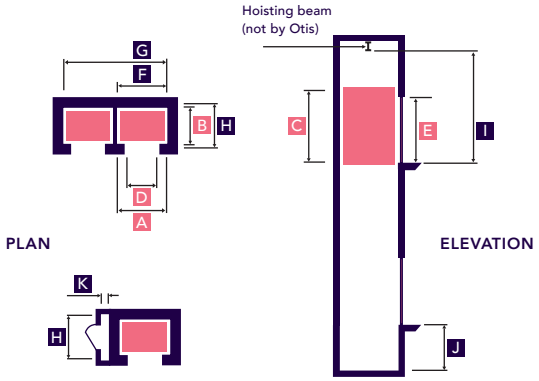
	I Clear overhead to hoist beam[4,5]	150 fpm (0.76 m/s)	200 fpm (1.02 m/s)	350 fpm (1.78 m/s)
	7′-9″ (2362 mm) Cab height	12′-10″ (3912 mm)	12′-11″ (3937 mm)	13′-7″ (4140 mm)[11]
	9′-9″ (2972 mm) Cab height	14′-10″ (4522 mm)	14′-11″ (4547 mm)	15′-7″ (4750 mm)
J	Minimum pit depth[6,8]	4′-0″ (1219 mm) or 5′-0″ (1524 mm)		4′-6″ (1372 mm)[11] or 5′-6″ (1676 mm)

K	Optional control closet or room[7]
	Control closet — Hoistway depth x 3′-10″ (1168 mm)
	Control room — Hoistway depth x 5′-9″ (1753 mm)
	Control room–duplex — Hoistway depth x 7′-6″ (2286 mm)

1. Clear car dimensions may vary depending on interior finishes.
2. 4000P and service elevators @350 fpm require a control closet.
3. Clear cab height varies by ceiling type and floor recess.
4. Allow a minimum of 4″ (102 mm) between top of safety beam and top of hoistway.
5. For seismic areas, multi-car groups, or pre 2008 ASME A17.1 Safety Code for Elevators, please contact your Otis representative for clear overhead dimensions.
6. Some locations require a 5′-0″ (1524 mm) pit. Contact your Otis sales representative for details.
7. Please consult your local Otis representative regarding multi-car groups, or smaller dimensions.
8. A pit ladder pocket may be required. Please contact your Otis representative for details.
9. Hoistway widths for rises above 80′-0″ (24384 mm) should be increased by 2″ (51 mm) to allow for tolerances.
10. Construction efficiencies can be realized by increasing hoistway width dimensions by 2″ (51 mm).
11. Service cars with a 7′-9″ (2362 mm) cab height and 4′-6″ (1372 mm) pit will require an additional 8″ (203 mm) of clear overhead.

Overslung systems

Travel height maximum	**300′** (91 m)				
Max stops	**28**				
Speed (fpm)	**200** (1.02 m/s)	**350** (1.78 m/s)	**400** (2.03 m/s)	**450** (2.29 m/s)	**500** (2.54 m/s)



Passenger

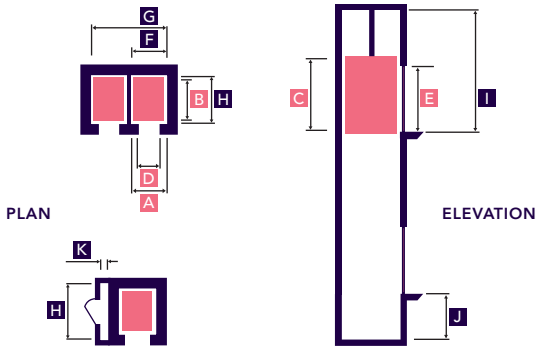
	Rated duty	2500 lbs (1134 kg)	3000 lbs (1361 kg)	3500 lbs (1588 kg)	4000 lbs (1814 kg)
A	Clear car width[1]	6′-8 5⁄16″ (2040 mm)			7′-8 5⁄16″ (2345 mm)
B	Clear car depth for front openings[1]	4′-3 1⁄8″ (1299 mm)	4′-9″ (1448 mm)	5′-5″ (1651 mm)	
	Clear car depth for front & rear openings[1]	4′-3 3⁄4″ (1314 mm)	4′-9 5⁄8″ (1463 mm)	5′-5 5⁄8″ (1666 mm)	
C	Clear cab height[2]	8′-0″ (2438 mm) or 9′-7″ (2921 mm)			
D	Door width	3′-6″ (1067 mm)			4′-0″ (1219 mm)
	Door type	Center Opening or Single Slide			Center Opening
E	Door height	7′-0″ (2134 mm) or 8′-0″ (2438 mm)			
F	Hoistway single width non-seismic	8′-4″ (2540 mm)			9′-4″ (2845 mm)
	Hoistway single width seismic	8′-6″ (2591 mm)			9′-6″ (2896 mm)
G	Hoistway double width non-seismic	17′-0″ (5182 mm)			19′-0″ (5791 mm)
	Hoistway double width seismic	17′-4″ (5283 mm)			19′-4″ (5893 mm)
H	Hoistway depth for front openings	6′-6″ (1981 mm)	7′-0″ (2134 mm)	7′-8 1⁄2″ (2350 mm)	
	Hoistway depth for front & rear openings	6′-2 7⁄8″ (1902 mm)	6′-8 3⁄4″ (2051 mm)	7′-4 3⁄4″ (2254 mm)	

	Total overhead[4, 5]	200 fpm (1.02 m/s)	350 fpm (1.78 m/s) - 500 fpm (2.54 m/s)
	8′-0″ (2438 mm) Cab height	15′-6″ (4724 mm)	16′-2″ (4928 mm)
	9′-7″ (2921 mm) Cab height	17′-1″ (5207 mm)	17′-9″ (5410 mm)
J	Minimum pit depth	5′-0″ (1524 mm)	5′-6″ (1676 mm)

K	Control closet or room[3]	
	Control closet	Hoistway depth x 3′-10″ (1168 mm)
	Control room	Hoistway depth x 5′-9″ (1753 mm)
	Control room–duplex	Hoistway depth x 7′-6″ (2286 mm)

IMPORTANT:
To assist in your planning, we recommend that you call your Otis representative at the beginning of the project.

Travel height maximum	300′ (91 m)				
Max stops	28				
Speed (fpm)	200 (1.02 m/s)	350 (1.78 m/s)	400 (2.03 m/s)	450 (2.29 m/s)	500 (2.54 m/s)



Service

	Rated duty	4000 lbs (1814 kg)	4500 lbs (2041 kg)	5000 lbs (2268 kg)	5000 lbs AIA (2268 kg)
A	Clear car width[1]	5′-8 5/16″ (1735 mm)		5′-11 5/16″ (1811 mm)	5′-8 5/16″ (1735 mm)
B	Clear car depth for front openings[1]	7′-5″ (2261 mm)	7′-11″ (2413 mm)	8′-6″ (2591 mm)	9′-0 1/8″ (2747 mm)
	Clear car depth for front & rear openings[1]	7′-5 5/8″ (2276 mm)	7′-11 5/8″ (2428 mm)	8′-6 5/8″ (2606 mm)	9′-0 3/4″ (2762 mm)
C	Clear cab height[2]	8′-0″ (2438 mm) or 9′-7″ (2921 mm)			
D	Door width	4′-0″ (1219 mm)		4′-6″ (1371 mm)	
	Door type	Two-Speed			
E	Door height	7′-0″ (2134 mm) or 8′-0″ (2438 mm)			
F	Hoistway single width non-seismic	8′-2″ (2489 mm)		8′-5″ (2565 mm)	8′-2″ (2489 mm)
	Hoistway single width seismic	8′-4″ (2540 mm)		8′-7″ (2616 mm)	8′-4″ (2540 mm)
G	Hoistway double width non-seismic	16′-8″ (5080 mm)		17′-2″ (5232 mm)	16′-8″ (5080 mm)
	Hoistway double width seismic	17′-0″ (5182 mm)		17′-6″ (5334 mm)	17′-0″ (5182 mm)
H	Hoistway depth for front openings	9′-0″ (2744 mm)	9′-6″ (2896 mm)	10′-1″ (3074 mm)	10′-7″ (3227 mm)
	Hoistway depth for front & rear openings	9′-10 5/8″ (3013 mm)	10′-4 5/8″ (3165 mm)	10′-11 5/8″ (3343 mm)	11′-5 3/4″ (3499 mm)

I	Total overhead[4, 5]	200 fpm (1.02 m/s)	350 fpm (1.78 m/s) - 500 fpm (2.54 m/s)
	8′-0″ (2438 mm) Cab height	15′-6″ (4724mm)	16′-2″ (4928 mm)
	9′-7″ (2921 mm) Cab height	17′-1″ (5207 mm)	17′-9″ (5410 mm)
J	Minimum pit depth	5′-0″ (1524 mm)	5′-6″ (1676 mm)

K	Control closet or room[3]	
	Control closet	Hoistway depth x 3′-10″ (1168 mm)
	Control room	Hoistway depth x 5′-9″ (1753 mm)
	Control room–duplex	Hoistway depth x 7′-6″ (2286 mm)

1. Clear cab dimensions may vary depending on interior finishes.
2. Clear cab height varies by ceiling type.
3. Please consult your local Otis representative regarding multi-car groups or smaller dimensions.
4. For seismic areas, mulit-car groups, or pre 2008 ASME A17.1 Safety Code for Elevators, please contact your Otis representative for clear overhead dimensions.
5. Overhead machine rooms are also available. Please contact your Otis representative.

Marina Heights

MARINA HEIGHTS OFFICE AND RETAIL COMPLEX	
LOCATION: TEMPE, AZ	EQUIPMENT: 63 GEN2 ELEVATORS
SIZE: 2 MILLION SQ. FT. OFFICE 40,000 SQ. FT. RETAIL	USE: BUILD-TO-SUIT OFFICE AND RETAIL
	LEED SILVER

As the largest office development in Arizona history, Marina Heights offers amenities for tenants of the building as well as the surrounding community.

The LEED Silver building covers an area of approximately 20 acres and includes five office towers of varying heights, three to four retail areas and two below-grade parking garage levels holding 8,600 parking spaces.

Challenges inherent to the project, such as the need to carry out construction while people were working and operating within the space, as well as the customer's compressed timeline, required a savvy approach to construction. As the key vertical transportation partner, Otis helped the development team meet the project need on time and on budget.

Credit: Davis Architecture, Interiors and Urban Design

Solutions for your world

Our elevators and escalators blend convenience, style and performance to deliver a new passenger experience that adds value to any residential, commercial, hospitality, medical or industrial building.

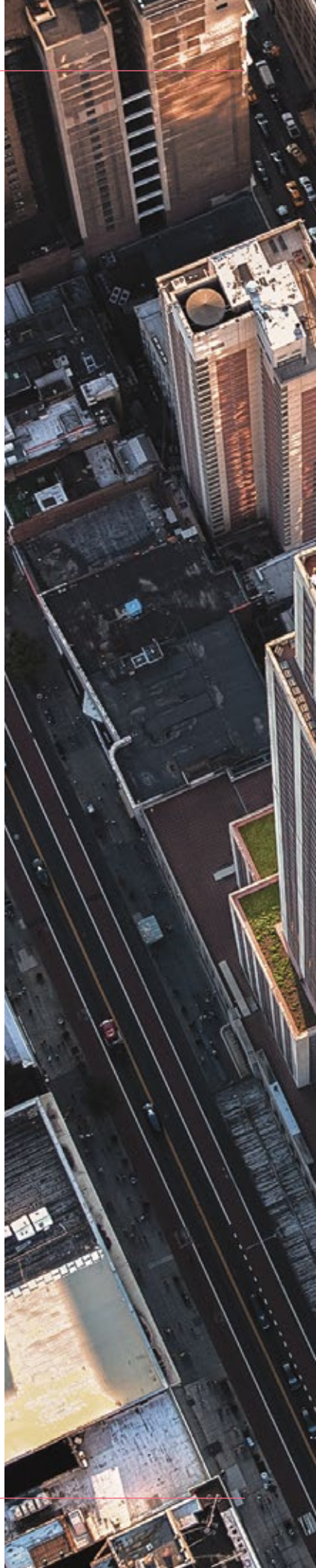
OUR FAMILY OF ELEVATORS AND ESCALATORS

HYDROFIT
We designed our machine room-less, holeless hydraulic elevator to save you plenty of valuable floor space. The result is a design that sets your creative vision free, helps your construction teams and inspires your passengers.

SKYRISE®
Our most advanced high-rise elevator yet. We've taken everything we know and pushed it further, combining cutting-edge science and precision engineering to deliver the solutions you need.

SKYBUILD
Complete your building faster with our SkyBuild elevator. Years of high-rise experience and innovative engineering come together in our high-speed, self-climbing construction elevator.

ESCALATORS & MOVING WALKS
Ultimately safe, incredibly reliable and designed to smoothly integrate with your building, our escalators and moving walks are engineered to be whisper quiet and smooth.



Built on a legacy of innovation, Otis invented the elevator safety brake in 1852, giving rise to the modern city and forever changing how people connect and thrive in a taller, faster, smarter world. Today, we're the world's leading elevator and escalator manufacturing, installation and service company. We can be found in many of the world's most recognizable buildings, as well as the busiest transportation hubs and retail centers – we're everywhere people are on the move. With a global maintenance portfolio of more than 2 million elevators and escalators, approximately 2 billion people are moved by our products every day. Headquartered in Connecticut, USA, Otis is 68,000 people strong, including 40,000 field professionals, all committed to meeting the diverse needs of our customers and passengers in more than 200 countries and territories worldwide. For more information, visit www.otis.com and follow us on LinkedIn, Instagram, Facebook and Twitter @OtisElevatorCo.

otis.com
WHQ-EN-0518

OTIS