



Schindler 3100

Cost-effective MRL traction elevator for two- and three-story buildings





The Schindler 3100 is a competitively-priced, machine room-less (MRL) traction elevator that outperforms hydraulic alternatives.

» Sustainable

Advanced energy-saving design is up to 60% more efficient than hydraulic elevators. Regenerative drive helps lower your building's carbon footprint.

» Smooth

Superior traction engineering provides passengers with a ride that is noticeably quieter and more comfortable.

» Spacious

Installs in a standard hydraulic hoistway while delivering larger cabs and more usable building space.

» Smart

More efficient planning, ordering, delivery and installation processes shorten lead times.

» Sophisticated

Carefully selected design palettes can be configured to complement any building décor.

Optimized for low-rise buildings – this is the MRL traction elevator you’ve been waiting for

If hydraulic elevators have been the workhorses of the low-rise market, the Schindler 3100 is a comparably priced traction thoroughbred. Save space and energy while providing passengers with a safe, reliable ride. It’s easy to order, and simple to install.

An enlightened elevator

The Schindler 3100 provides all the benefits of our highly regarded Schindler 3300, but is configured cost-effectively for the two- and three-story market. It is a MRL traction solution that is engineered like no other low-rise elevator: offering amazingly smooth performance that uses less energy, makes less noise, and fits easily into a traditional hydraulic elevator hoistway.

The Schindler 3100 is the smart choice for two-or three-stop commercial and residential buildings. It delivers the same level of product quality and safe, reliable service, and our distinctive range of design and aesthetic options are available.

MRL Traction vs. MRL Hydraulic

	Traction	Hydraulic
Energy efficient	✓	–
Eco-friendly	✓	–
Space saving	✓	✓
Smooth ride	✓	–
Low noise	✓	–
No odor	✓	–
Large cab	✓	–
Fits standard hoistway	✓	✓
Affordably priced	✓	✓

Fast facts

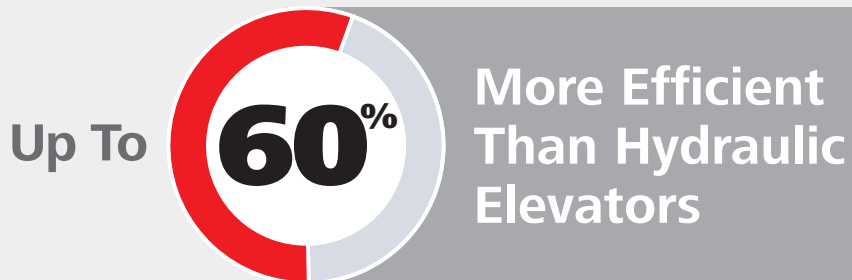
Capacity	2,100 – 3,500 lbs. 13 – 21 passengers
Travel height	Max. 56 feet
Stops/Openings	3 stops, with up to 3 front and 3 rear openings
Door width	36 – 42 inches
Door height	84 inches
Drive	Regenerative drive standard
Speed	100 FPM
Control	Selective collective
Interior	Powder coat, plastic laminate or brushed stainless steel
Compliance	Meets applicable federal, state and local codes. Check with your local sales representative for details.



The design efficiencies of the Schindler 3100 MRL traction elevator reduce its overall space requirements by as much as 20%.

Sustainable

The Schindler 3100 is significantly more eco-friendly than hydraulic elevators.



Drive


- Regenerative drive comes standard
- Power Factor 1 regenerative drive comes standard
- Gearless machine saves energy and avoids power loss
- Stable start uses energy more efficiently and reduces electric costs
- Frequency converter with standby power mode safely returns elevator to nearest floor during power outage.

Control

- When not in use, car lights automatically switch to standby mode
- Car panel and floor indicators use low power LEDs
- Multi-bus control architecture reduces cabling and material waste
- Smart controls provide more efficient passenger transportation.

Cab

- Car lighting uses energy-efficient lamps
- Central guiding system reduces friction and energy consumption
- Door drive with standby mode uses less electricity
- Larger cabs are also stronger and lighter weight.

 Schindler is a member of the U.S. Green Building Council and supports the LEED® Green Building Rating System.

Smooth

Traction elevators offer smoother performance than hydraulic elevators – smoother starts, stops and between-floor travel.

Schindler 3100 cabs

The Schindler 3100 uses a unique frameless cab design that reduces system weight, energy consumption and installation times. Constructed using high-quality, high-strength materials they are more stable, quieter and roomier for increased passenger comfort. Lighter cabs also require less operating power and consume less energy.



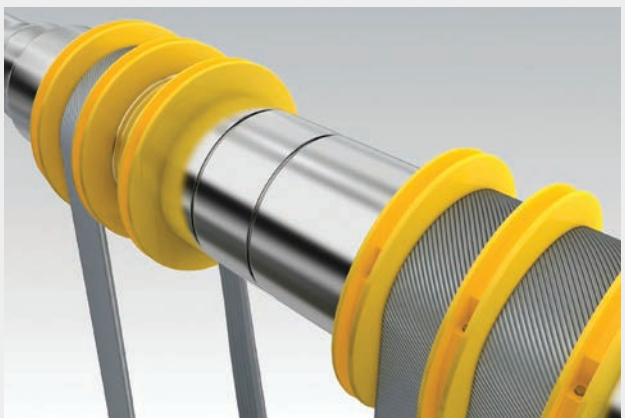
Suspension traction media (STM)

Consisting of strong, surfaced-coated steel wire ropes sheathed in a non-circular, polyurethane jacket, the Schindler suspension traction media (STM) is quieter, stronger, and more flexible than traditional steel cables. Weighing less, they require less power and energy to operate.



Traction sheaves and hoist machines

Combining lighter cabs with more efficient drives and more flexible STM allows for the use of significantly smaller, space-saving sheaves. The innovative tooth design of the lightweight STM engages tightly into the grooves of the pulley to insure a smooth ride, less wear and a longer lifespan.



Spacious

The compact design of the Schindler 3100 eliminates the need for a separate machine room, which leaves more usable building space and delivers cabs that are 5% larger on average.

More room is always better

The reduced space requirements for technical equipment and components enable the Schindler 3100 to deliver significant advantages:

- Fits into a standard hydraulic hoistway
- Requires no machine room or control closet
- Needs minimal hoistway overhead
- Eliminates unsightly roof structures.

Space-saving measures include:

- Small, powerful drive located in the hoistway overhead
- High-strength, flexible suspension traction media (STM)
- Compact inspection and test panels in the top landing hoistway door jamb
- Control distributed throughout the system
- The Schindler 3100 does not require a machine room or control closet. However, some jurisdictions still require such space. In those areas please contact your local Schindler sales representative for a room or closet solution.



The advanced Schindler 3100 MRL traction elevator fits seamlessly into a standard hydraulic elevator hoistway.



A small gearless traction machine with best in class motor efficiency and performance is at the heart of the Schindler 3100 MRL design.



The Schindler 3100 inspection and test panel is incorporated into the doorframe at the top floor, eliminating the need for an additional control cabinet.

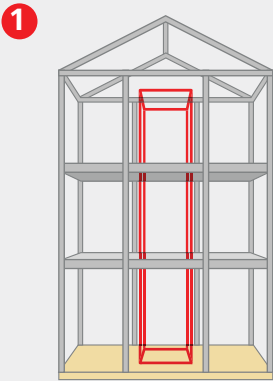
▶▶▶ The Schindler 3100 gives you more usable building space while reducing construction costs.

Smart

From planning through installation, you'll find our processes are streamlined, simplified, and quick.

Planning

The Schindler 3100 requires no machine room. For you, this means less planning. Only one space, the elevator shaft, has to be designed. Standardized plans simplify the process, making it fast and efficient.



Ordering

The design of the Schindler 3100 is sophisticated, yet simple. The key factors are quickly established. Since there are no complicated specifications, it is easy to place an order. You will quickly and effortlessly find the product that fits your needs.



Delivery

We deliver the Schindler 3100 complete and all at once, just in time for when the building is ready for the elevator installation.



Installation

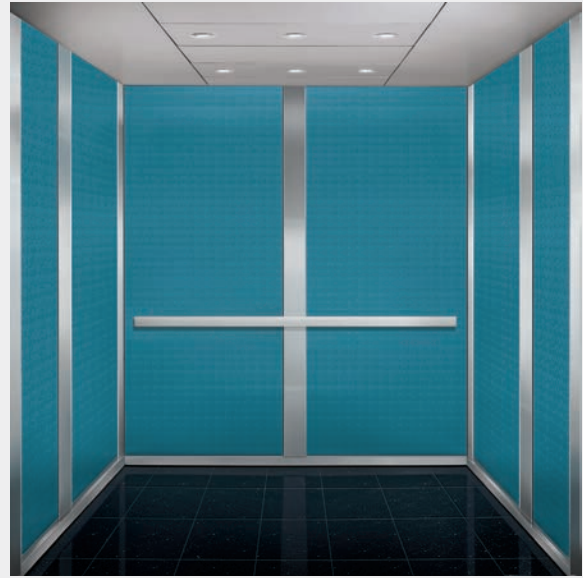
The elevator is quickly installed. No cranes or scaffoldings are required. The system is ready in about two weeks. Our well-thought-out process makes all the difference.

Sophisticated

Our design palette is simple, yet refined. It keeps lead times and costs down but your artistic expression high.

Design elements

- Cab walls are available in brushed stainless steel, powder coat or a choice of plastic laminates.
- The unique ceiling design comes standard in brushed stainless steel.
- Ceiling lighting comes standard with classic LED round spot downlights. Optional line light fixtures can enhance your elevator design.
- Handrail options include a round design in brushed stainless steel and a rectangular design in brushed aluminum. Both handrail designs are available in cut and return ends.
- Landing doors are available in brushed stainless steel, and various colors of durable powder coat or primer.
- Doors are available in center-opening and left or right side-opening.
- Hall fixtures are brushed stainless steel with tempered safety glass.



Laminate — Long Beach Blue



Brushed stainless steel



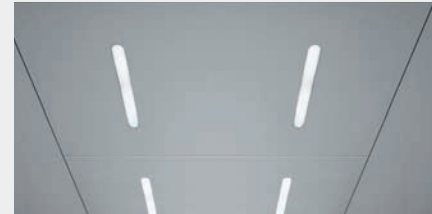
Landing doors — Available in 11 powder coat colors or stainless steel



Car fixture



Ceiling lighting — Standard LED round spot downlights



Ceiling lighting — Line light option



Hall fixture



Handrail — round, return end



Handrail — rectangular, cut end

Note: The car specifications, options and colors in this brochure are representative only and are subject to change. Samples shown may vary from the original in color and material.

Premium Finish Options

The Schindler 3100 gives you a wide selection of durable powder coat or colorful laminate finishes, as well as a sleek brushed stainless steel cab. From fun, fresh colors to the subdued natural tones, you can create a look and feel that is truly one of a kind.



Distinctive brushed stainless steel cab is an optional upgrade

Brushed stainless steel #4

Fresh, flashy and multifaceted

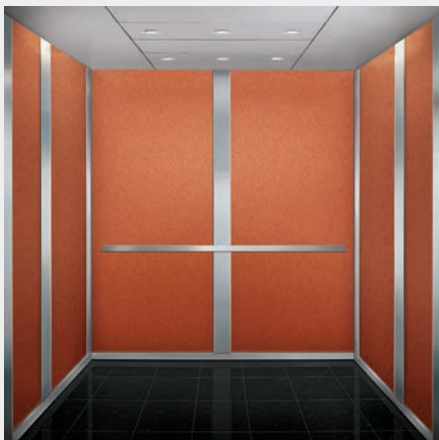


Montreal Blue



Powder coat colors

Warm, distinguished and genuine



Tampa Tangerine

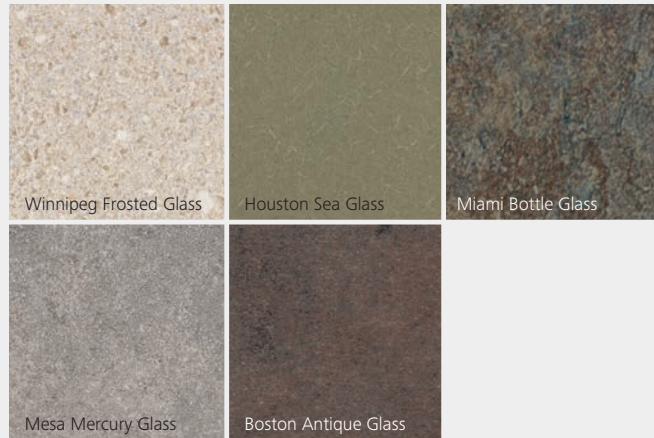


Matte finish laminates with subtle, wavelike design

Clean, cool and cutting edge



Mesa Mercury Glass



Matte or gloss finish laminates with glassy sheen; swatches are a representation of the gloss finish.

Steely, sophisticated and elegant



Toronto Grey

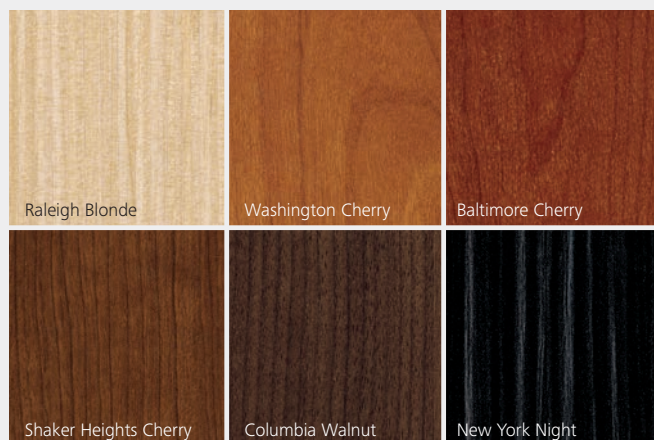


Choose from gloss finish laminates with subtle, monochromatic patterns.

Rich, natural and classic



Baltimore Cherry



Matte and gloss finish laminates with rich, wood-grain colors; swatches are a representation of the gloss finish.

Striking details

Entrances and cab details are available in durable powder-coated and stainless steel finishes. Mix or match entrances and landing doors finishes as desired and make the statement that suits your design.



Intelligent performance

The Schindler 3100 enhances rider experience, improves safety and minimizes downtime.

Control

The control system is based on low-energy multiprocessor technology. The compact main inspection and test panel of the decentralized system is integrated in the doorjamb.

Control functions

- Miconic® NX microprocessor
- On-board diagnostics, self-testing
- Light curtain
- Overload detection
- Two-way, hands-free emergency communication
- Firefighter's Service operation
- Independent service
- Automatic car light.

Fixtures

The combination of back-printed white glass and stainless steel give the elevator a contemporary, modern look while meeting all applicable codes.



Seamless connectivity

Made for today. Ready for the future.

With Schindler Ahead, we turn data into results for customers and passengers.

Schindler Ahead is a cloud platform. Using 4G connectivity, this closed-loop digital platform allows your connected equipment to become part of the Building Internet of Things (IoT). Secure, automated data collection and real-time analytics provide insights that allow for predictive maintenance, equipment visibility, maximized uptime and more accurate capital planning. Building owners, facilities managers and passengers can have the relevant information they need, when they need it.

To learn more about Schindler Ahead, visit schindler.com/ahead-us.

Key benefits of Schindler Ahead



- High reliability and uptime improves overall building performance
 - Insights about component lifetime allow for better mid-term planning of repairs and modernizations
 - Complete digital documentation of equipment portfolio
 - 24/7 digital emergency service
 - Increased building value by connecting to Internet of Things
 - Cost-saving solutions with service guarantees and removal of phone line
- High reliability and uptime with fast reaction times, thanks to predictive maintenance
 - Real-time information on equipment status and performance
 - Full transparency on status of maintenance activities, due to push notifications via app, text, or email
- Reduced wait times and increased reliability lead to potential improvements in the passenger experience
 - Regular status updates about equipment and maintenance work via the app, text, or email
 - Increased convenience thanks to interactive and personalized information

SchindlerPlan.com

Elevator and escalator design in minutes



Schindler Plan is an easy-to-use online planning tool that makes it simple to configure your elevator or escalator in minutes. Good elevator or escalator design plays a critical role in the quality of life and work in multi-story buildings. Schindler Plan was developed to enable accurate escalator or elevator preparation early in a project's life cycle.

Schindler 3100 MRL Traction Elevator

General Purpose

Capacity 2,100 – 3,500 lbs.

Passengers 13 – 21

Speed 100 fpm

Travel height Up to 56' 7"

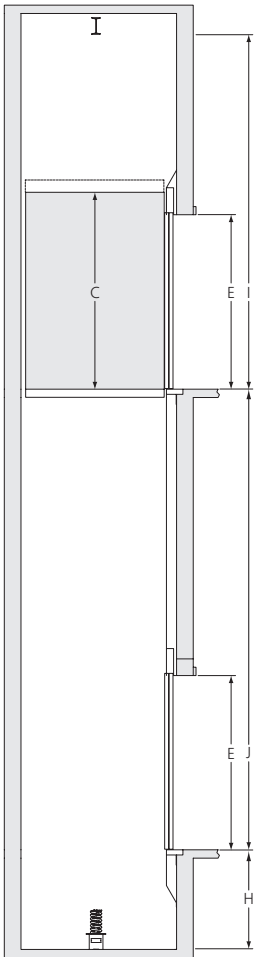
Openings 3 front, 3 rear

Cab height 7'-9" 4

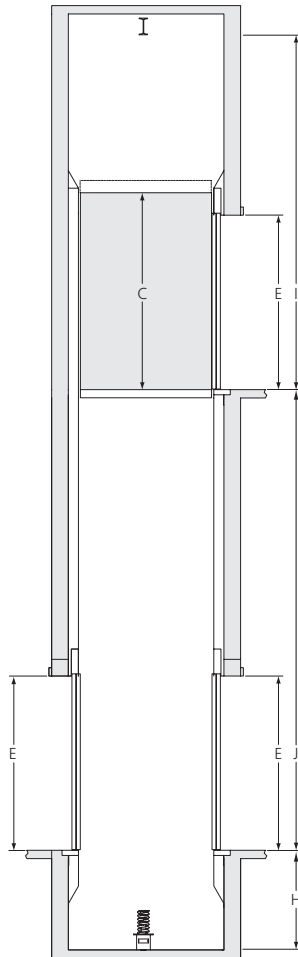
Door height 7'

Hoistways

Front opening



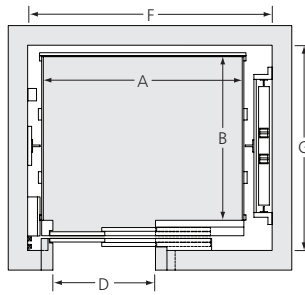
Front/rear opening



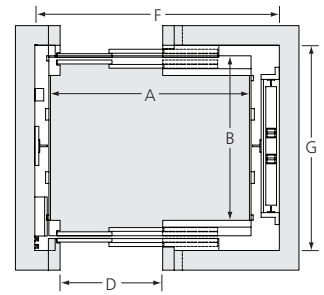
Hatch plans:

Hospital / Service

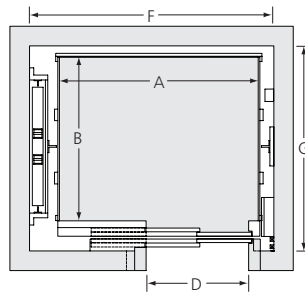
Front opening two-speed left opening (2SSO)



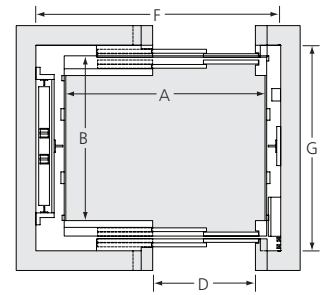
Front/rear opening 10 two-speed left opening (2SSO)



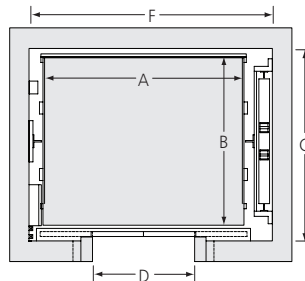
Front opening two-speed right opening (2SSO)



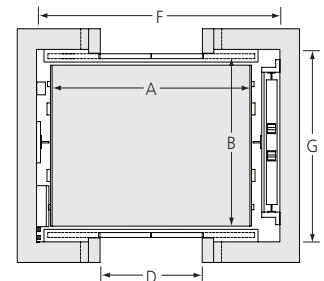
Front/rear opening 10 two-speed right opening (2SSO)



Front opening single-speed center opening (SSCO)



Front/rear opening single-speed center opening (SSCO)



Abbreviations:

A Cab width

B Cab depth

C Cab height 4

D Door width

E Door height

F Hoistway width

G Hoistway depth

H Pit depth

I Clear overhead

SSCO Single speed center opening door

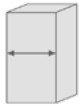
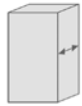





2SSO Two speed side opening door 1

Schindler 3100 MRL Traction Elevator

General Purpose

Machine room-less traction elevator with regenerative drive

Capacity 2100 – 3500 lbs, 13 – 21 passengers

Load Capacity lbs (kg)	Passengers Max	Number of stops max. Stops	Available entrances max. Openings	Car (Inside)		Door Door Type ¹	Shaft (Inside)				
				Cab Width  ft-in (mm)	Cab Depth  ft-in (mm)		Door Width  ft-in (mm)	Hoistway Width ^{3,8}  ft-in (mm)	Hoistway Depth  ft-in (mm)	Pit Depth ⁹  ft-in (mm)	Clear Overhead ⁵  ft-in (mm)
2,100 (950)	13	3	3 Front	5'-9 5/16" (1761)	4'-4 7/8" (1343)	2SSO	3'-0" (915)	7'-4" ⁸ (2235)	5'-9" (1755)	5'-0" (1524)	12'-7" (3835)
		3/3	3 Front 3 Rear					7'-4" ⁸ (2235)	6'-5 5/8" (1972)	5'-0" (1524)	12'-7" (3835)
2,500 (1135)	15	3	3 Front	6'-9 5/16" (2066)	4'-4 7/8" (1343)	2SSO/ SSCO	3'-6" (1067)	8'-4" ⁸ (2540)	5'-9" (1755)	5'-0" (1524)	12'-7" (3835)
		3/3	3 Front 3 Rear					8'-4" ⁸ (2540)	6'-5 5/8" (1972)	5'-0" (1524)	12'-7" (3835)
3,000 (1360)	18	3	3 Front	6'-9 5/16" (2066)	4'-10 7/8" (1495)	2SSO/ SSCO	3'-6" (1067)	8'-4" ⁸ (2540)	6'-3" (1905)	5'-0" (1524)	12'-7" (3835)
		3/3	3 Front 3 Rear					8'-4" ⁸ (2540)	6'-11 5/8" (2124)	5'-0" (1524)	12'-7" (3835)
3,500 (1590)	21	3	3 Front	6'-9 5/16" (2066)	5'-6 7/8" (1699)	2SSO/ SSCO	3'-6" (1067)	8'-4" ⁸ (2540)	6'-11 1/16" (2110)	5'-0" (1524)	12'-7" (3835)
		3/3	3 Front 3 Rear					8'-4" ⁸ (2540)	7'-7 5/8" (2328)	5'-0" (1524)	12'-7" (3835)
				A Inside cab width	2SSO 2-speed side opening (H)		F Shaft width				
				B Inside cab depth	SSCO Single speed center opening		G Shaft depth				
				C Inside cab height to underside of roof. [Inside cab height to finished ceiling is 7'-5 3/16" (2265).]	D Door Width		H Pit depth				
					E Door Height		I Overhead				

Notes:

- 2SSO doors available with right or left opening.
- Duplex operation available.
- Areas in seismic zone 2 or greater may require up to 3 1/2" more hoistway width. Please contact your Schindler Sales Representative for details and options.
- Inside cab height is to underside of roof. Inside cab height to finished ceiling is 7' 5 3/16" (2265mm).
- Clear overhead is defined from the lowest point below any obstruction such as: hoist beam(s), building beams, or roof structure to floor of top landing.
- Where permitted by code, no control closet is required. A 3-phase disconnect must be located in both the hoistway overhead and a location in the building outside of the hoistway. 110v disconnect should be located outside of hoistway. Disconnects are not required to be an elevator-dedicated space. Please confirm with local requirements.
- 24' max. floor to floor travel.
- Schindler recommends 8'-6" (2,500 – 3,500 lbs) and 7'-6" (2,100 lbs), providing additional hoistway tolerances.
- Please contact your Schindler Sales Representative for options less than 5'-0.
- Please contact your Schindler Sales Representative for additional hatch options such as diagonal entrances.
- All dimensions are for information only and cannot be used for construction purposes without Schindler confirmation.



Schindler – We Elevate

For more information, including the location of the Schindler office nearest you, please visit:

U.S. Headquarters. Morristown, New Jersey
Tel. 973.397.6500
www.us.schindler.com

Canada Headquarters. Toronto, Ontario
Tel. 416.332.8280
www.ca.schindler.com

We Elevate



Schindler has received renewal to ISO 9001 and ISO 14001 certificates.



Schindler prints with vegetable-based ink on paper containing post-consumer waste fiber.