



Schindler ride quality and performance
Delivering a superior experience
for passengers

We Elevate



Schindler

Maximizing passenger comfort

Through high-quality elevator design and installation

Elevators have become indispensable in most buildings, and smooth, quiet, and comfortable rides are essential. With excellence always in focus, the latest Schindler elevators have been developed to minimize potential noise and vibrations.

Passenger comfort and tenant wellbeing

The jerk, acceleration, deceleration, and vertical and lateral vibrations all contribute to the overall passenger travel experience. Vibrations created by the system can directly impact passenger comfort, but the impact is not only limited to those riding the elevator. Vibrations above 20 Hz can also generate audible sound, called structure-borne noise, that's carried throughout the building. Too much noise can both distress riding passengers and have an immediate and long-term impact on tenants' quality of life.

Clear codes and standards

Not every type of noise has the same impact – it depends on the nature of the noise and relative background sounds. To maximize the comfort of building occupants, clear codes and standards have been defined that address sound insulation in buildings.

By providing accurate measurements of the noise and vibrations generated by an elevator, we enable architects and contractors to better manage the impact of the equipment on the building.

Component quality

Schindler adheres to strict design principles and protocols, with precise ride quality specifications for each component. Acoustic quality is tested to ensure that the final product meets these rigorous requirements.

Installation excellence

Minimizing deviations from the system design and accurately aligning the components are essential for a smooth ride. Schindler's Installation Excellence program, featuring a master installation method and standard installation kits, ensures every elevator we install meets our rigorous global standards.



1 Machine

Decoupling the machine from the building structure, in machine-room-less applications using isolation and gearless technology, helps to minimize vibration and noise.

2 Inverter

High-quality subcomponents and limited operation of the fan help reduce the noise from the inverter.

3 Car

Superior design, manufacturing, and materials minimize noise and vibration created by the car moving through the hoistway.

4 Guide rails and guide shoes

Robust guide shoes and isolation material can lessen noise and vibration created by the elevator moving along these tracks.

5 Car and landing doors

Noise from the opening of the car and landing doors can be reduced by servicing and lubricating the system regularly.

Schindler elevator performance

Schindler 3000, Schindler 5000 & Schindler 6000			
Application	Speed	m/s	0.63–3.0
	Hoisting technology		Belt
	Drive location		MRL or MR*
Shaft	Shaft/machine noise	dB(A) (average)	70–75
	Pass-by noise	dB(A) (peak)	50–58
Landing	Airborne noise at top landing incl. door movement	dB(A) (peak)	58–60
	Sound pressure level	dB(A) average	53–57
Car	Lateral car vibration	mg (average)	10–15
	Vertical car vibration	mg (average)	10–18

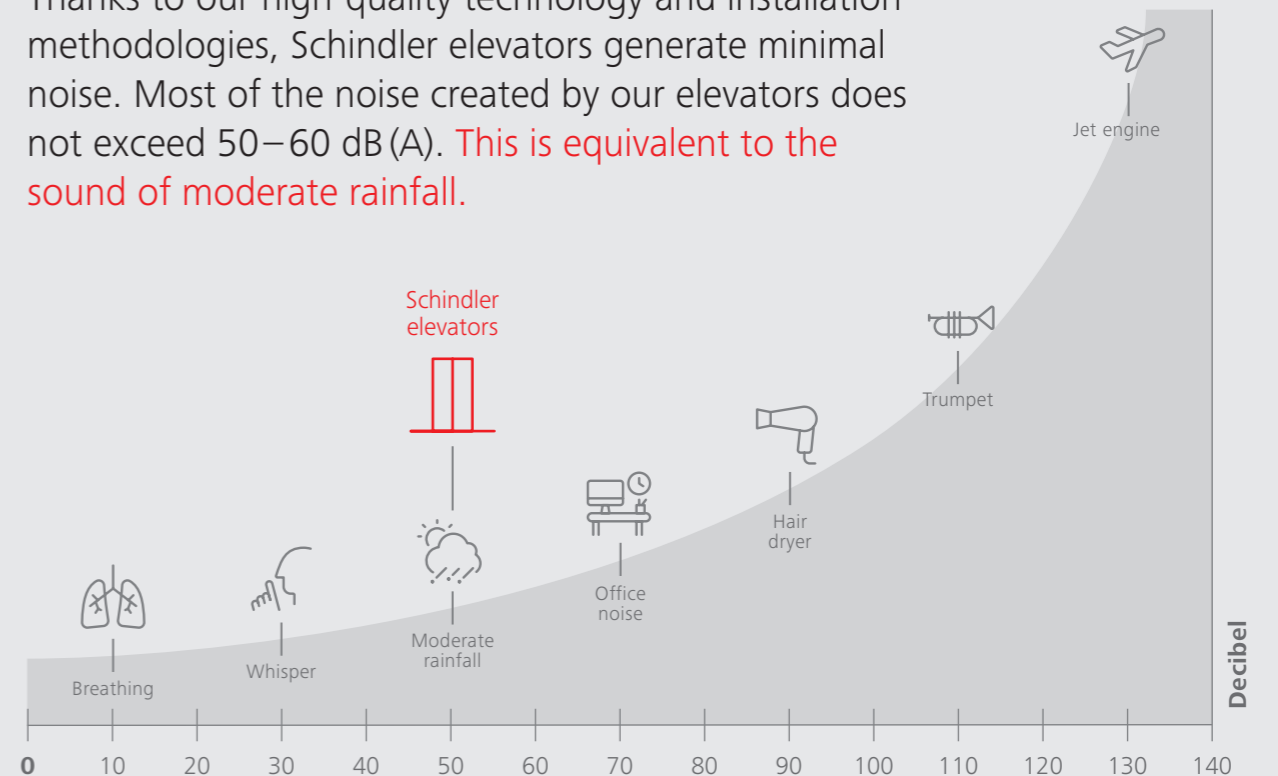
*Schindler 6000 only

We offer a range of ride quality solutions across all our elevators, with the Schindler 6000 consistently delivering the highest level of performance. However, many of the enhancements that contribute to the superior ride quality of the Schindler 6000 can also be applied to the Schindler 3000, allowing it to achieve a comparable level of comfort based on customer needs.

For the evaluation methodology, we comply with ISO 8100-34 standards. However, many factors influence the amount of noise and vibration generated by an elevator.

This includes the design of the building structure, particularly the hoistway walls, which are beyond the control of the elevator manufacturer. Please reach out to your Schindler sales representative if you require more detailed information.

Thanks to our high-quality technology and installation methodologies, Schindler elevators generate minimal noise. Most of the noise created by our elevators does not exceed 50–60 dB(A). **This is equivalent to the sound of moderate rainfall.**



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