

# Efficient mobility. Sustainable technology.

## Schindler 3300 AP elevator

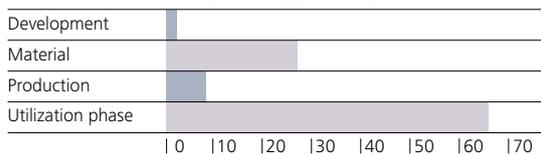
### Sustainability today

Sustainable urban development is a major challenge for planners and architects in the 21st century. Schindler supports visions and plans for sustainable buildings with energy-efficient and ecologically sound mobility solutions. The Schindler 3300 AP standardized passenger elevators ensure sustainable mobility in residential and smaller commercial buildings.

### Efficient operation

Schindler elevators are built to be highly efficient in every respect: be it in performance, space or energy usage. From the first steps of development, to smart material use in production, to optimizing energy consumption during utilization, Schindler is securing ecologically sound solutions today and for the future.

#### Total environmental impact % by product phase



Two-thirds of an elevator's environmental impact is accounted for by the energy in utilization.

The energy required for daily operation of a building has the biggest impact on the environment – the same applies to elevators. The amount of energy an elevator consumes while in service is crucial to determining its environmental impact; energy-efficiency is therefore an important feature of Schindler elevators.

### We assess our elevators based on VDI 4707 standard, established in March 2009 by Association of German Engineers

How can you be sure that the elevator is energy efficient? We measure it. Ratings run by Schindler and third parties show that the Schindler 3300 AP can provide an energy efficiency classification in the "green" range. It is always good to rely on facts.

Reference measurements	Schindler 3300 AP
Load (kg)	1,000
Speed (m/s)	1.75
Number of stops	18
Travel height (m)	49.3
Usage category	4
Operation	A
Stand-by	B
<b>Efficiency class</b>	<b>A</b>

The VDI standard applies to the assessment of energy efficiency of elevators. Installed units were measured as per a standard configuration.

### Energy efficiency classification of VDI 4707

Seven consumption classes provide a transparent and factual overview when rating elevators according to their energy performance. They range from "A" to "G" with "A" being the best-in-class system. The rating combines measurements of both standby and travel energy. The elevator's frequency of use, travel height and speed are also considered as they have a strong influence on the rating.

The measurements and classification are a guideline for Schindler to further contribute to sustainable building development.

Selected measurements run by Schindler and third parties show that the Schindler 3300 AP elevator can provide an energy efficiency classification in the "green" range from "A" to "C".

#### Elevator energy efficiency certificate

<p><b>Manufacturer:</b> Schindler  <b>Location:</b> Shanghai China  <b>Elevator Model:</b> Schindler 3300 AP  <b>Elevator Type:</b> Electric operated passenger elevator</p>	 <b>Schindler</b>
<p><b>Energy efficiency classes</b></p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <div style="width: 20px; height: 10px; background-color: #008000; margin-right: 5px;"></div> <span style="font-weight: bold;">A</span> </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <div style="width: 20px; height: 10px; background-color: #00b050; margin-right: 5px;"></div> <span style="font-weight: bold;">B</span> </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <div style="width: 20px; height: 10px; background-color: #90ee90; margin-right: 5px;"></div> <span style="font-weight: bold;">C</span> </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <div style="width: 20px; height: 10px; background-color: #ffff00; margin-right: 5px;"></div> <span style="font-weight: bold;">D</span> </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <div style="width: 20px; height: 10px; background-color: #ffa500; margin-right: 5px;"></div> <span style="font-weight: bold;">E</span> </div> <div style="display: flex; align-items: center; margin-bottom: 2px;"> <div style="width: 20px; height: 10px; background-color: #ff4500; margin-right: 5px;"></div> <span style="font-weight: bold;">F</span> </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 10px; background-color: #ff0000; margin-right: 5px;"></div> <span style="font-weight: bold;">G</span> </div> </div> <div style="margin-top: 10px; text-align: right;"> <div style="width: 20px; height: 10px; background-color: #008000; display: inline-block;"></div> <span style="font-weight: bold; font-size: 1.2em;">A</span> </div>	
<p>Energy demand kWh/year  <small>Nominal demand per year for nominal values shown.</small></p>	4,246
<p><b>Rated load:</b> 1,000 kg  <b>Rated speed:</b> 1.75 m/s  <b>Operating days / year:</b> 365            Standby demand: 71 W  <small>(energy demand class B)</small>            Specific travel demand: 0.537 mWh/kgm  <small>(energy demand class A)</small></p> <p>Usage category 4            according to VDI 4707  <small>Comparison of energy efficiency is only possible under equal usage.</small></p>	
<p><small>Date: 16.04.2010            Reference: VDI 4707 Part 1 (Issue March 2009)</small></p>	

# Environmental features of Schindler 3300 AP elevator

## Efficient system

The passenger elevator Schindler 3300 AP follows an efficient system approach. Resulting in optimized energy demand, ecological responsible production and material usage, convenient planning, fast installation and trouble-free maintenance.

## Drive

- Green gearless machine for smooth ride quality
- Efficient motor enabling a direct power transfer, avoiding loss of power
- Stable start without high peak current, quickly reaching a low energy consumption level
- Frequency converter equipped with stand-by power mode
- Environmentally friendly as no oil is needed for lubrication
- Compact, light weight, and durable design that optimizes material usage

## Control

- System switches car lights and ventilation into stand-by mode when not in use
- Car panel and floor indicators operate with low power LEDs
- Multi-bus control
- Smart operation, down collective and selective collective controls for efficient passenger transportation

## Car and hoistway

- Car lighting equipped with energy saving lamps
- Central guiding system reduces mechanical friction and energy consumption
- Door drive with stand-by mode for safety and energy conservation
- Machine-room-less and Eco-effective design allows for more space in the same shaft and save construction resources
- Lead free counterweight

