Accredited with ISO 9001, an industry first in Korea
Accredited with ISO 14001, an industry first in Korea
Accredited with OHSAS 18001 Certification
Accredited with Korea Service Quality Business Certification
Approved for CE Marking for all areas of elevators, an industry first in Korea
Selected for GD (Good Design)
Accredited with KC (Korea Certification) for elevator safety

www.hyundaielevator.com
Hyundai Elevator’s cutting-edge technology and elegant design elevates the prestige of your building.

An observation elevator is an excellent addition to all building types, including hotels, shopping centers, office buildings, hospitals and observation towers, and offers incredible views through its transparent windows, thereby upgrading the value and prestige of any building.
Introducing the Hyundai observation elevator, the industry’s No.1 brand

DIVERSE PRODUCT LINEUP
The wide range of our product lineup, including one-, two- and three-sided, round type window or glass-walled elevators, guarantees customer satisfaction.

EXCELLENT USE OF SPACE
As the elevator shaft can be installed on the building exterior, there is no need to use interior space.

EXCELLENT TECHNOLOGY
Hyundai’s exclusive technology and thorough testing offer a safe and comfortable passenger experience.

ENHANCED VALUE
The expansive, uncompromised view adds value and prestige to your building.
Add value to your building with Hyundai Elevator’s cutting-edge technology and refined design.

An observation elevator is the perfect addition to all building types, such as hotels, shopping centers, office buildings, hospitals, residential buildings and observation towers. Hyundai’s modern design and advanced technology, embracing new trends and customer preferences, has been widely recognized for adding value to many buildings.
OBSERVATION ELEVATORS
LINE-UP

Our product lineup’s variety, ranging from one-, two- and three-sided, semicircular type window elevators to glass-walled elevators, offers a range of models to fit your building’s location, height and layout. Our sophisticated and trendy designs to complement your building’s architecture guarantee greater customer satisfaction.
**SQ-121A**

**1SIDE OBSERVATION ELEVATORS**

**Exterior Design**
- **Exterior Panels**: Painted steel (P-021), Glass

**Cage Design**
- **Ceiling**: CD219A (Painted steel / P-022), Skylite 10T
- **Wall**: Stainless hairline, Stainless hairline etching (SE2302), Glass
- **Door**: Stainless hairline etching (SE2303)
- **Handrail**: Stainless 1 pipe (HR / Polished)
- **DOP**: OPP-N216A / Stainless hairline
- **Indicator**: PI-D300
- **Flooring**: Deco-tile (DTE0320, DTE6333)

**SQ-129A**

**1SIDE OBSERVATION ELEVATORS**

**Exterior Design**
- **Exterior Panels**: Painted steel [P-014], Glass

**Decorative Illuminations**
- Acryl, LED lighting

**Cage Design**
- **Ceiling**: CD253A (Painted steel / P-021, P-022), LED Downlight, Skylite 10T
- **Wall**: Stainless hairline, Stainless hairline etching (SE2311), Glass
- **Door**: Stainless hairline etching (SE2313)
- **Handrail**: Stainless 1 pipe (HR / Polished)
- **DOP**: OPP-N216A / Stainless hairline
- **Indicator**: PI-L700
- **Flooring**: Deco-tile (DTE0320, DTE6407)

*Number and / or size of ceiling panels and number of lighting fixtures will vary per selected car size. *Applicable prices will vary per selected optional designs / materials.

*Colors printed in this catalog may appear different from actual colors.
SQ-129B
1SIDE OBSERVATION ELEVATORS

**Exterior Design**
- **Exterior Panels**: Painted steel (P-021, DN050), Glass
- **Decorative Illuminations**: Acryl, LED lighting

**Cage Design**
- **Ceiling**: CD191B / Art metal silver (AM01), LED bar type module (P-026)
- **Walls**: Stainless hairline, Stainless hairline etching (SE2300), Stainless mirror trim (30mm), Glass
- **Door**: Stainless hairline etching (SE2400)
- **Handrail**: Stainless 1 pipe (1R) / Polished
- **PFB**: OPP-N264A / Stainless hairline
- **Indicator**: PI-D900
- **Flooring**: Deco-tile (DTE2217, DTE2224)

SQ-119C
2SIDE OBSERVATION ELEVATORS

**Exterior Design**
- **Exterior Panels**: Painted steel (P-011), Glass
- **Decorative Illuminations**: LED signal panel decorative lighting, LED downlight

**Cage Design**
- **Ceiling**: CD219A (Painted steel / P-021), Skylite 10T
- **Walls**: Stainless hairline, Stainless hairline etching (SE2306), Glass
- **Door**: Stainless hairline etching (SE2306)
- **Handrail**: Stainless 1 pipe (1R) / Polished
- **PFB**: OPP-N264A / Stainless hairline
- **Indicator**: PI-L900
- **Flooring**: Deco-tile (DTE2316, DTE2327, DTE2317)

*Colors printed in this catalog may appear different from actual colors.*

*Number and/or size of ceiling panels and number of lighting fixtures will vary per selected car size.*
*Applicable prices will vary per selected optional designs/materials.*
**SQ-119Z**

**2SIDE OBSERVATION ELEVATORS**

**Exterior Design**
- **EXTERIOR PANELS**: Painted steel (P-011), Glass

**Cage Design**
- **CEILING**: CD219A (Painted steel / P-022), Skylite 10T
- **WALL**: Stainless hairline, Stainless hairline etching (SE206), Glass
- **DOOR**: Stainless hairline etching (SE206)
- **HANDRAIL**: Stainless 1 pipe (1R) / Polished
- **OPB**: OPP-N264A / Stainless hairline
- **INDICATOR**: P-I1900
- **FLORING**: Deco-tile (DTE2516, DTE-2517, DTE2517)

*Number and / or size of ceiling panels and number of lighting fixtures will vary per selected car size.*

*Applicable prices will vary per selected optional designs / materials.*

---

**RC-219A**

**2SIDE OBSERVATION ELEVATORS**

**Exterior Design**
- **EXTERIOR PANELS**: Painted steel (P-025), Glass
- **DECORATIVE ILLUMINATIONS**: Acryl, LED lighting

**Cage Design**
- **CEILING**: CD199A (Aluminum / Silver), PC ABS, LED lighting, Ceiling plate (Painted steel / P-021)
- **WALL**: Stainless hairline, Stainless hairline etching (SE206), Glass
- **DOOR**: Stainless hairline etching (SE206)
- **HANDRAIL**: Stainless 1 pipe (1R) / Polished
- **OPB**: OPP-N266A / Stainless hairline
- **INDICATOR**: P-I2100
- **FLORING**: Deco-tile (DTE2615, DTE-2655)

*Colors printed in this catalog may appear different from actual colors.*
**HG-132A**

3SIDE OBSERVATION ELEVATORS

**Exterior Design**
- EXTERIOR PANELS: Painted steel (P-021)
- DECORATIVE ILLUMINATIONS: Acrylic lens / Fluorescent illuminations through milky-white acrylic covers

**Cage Design**
- CEILING: CD524A (Painted steel / P-021), LED downlight, Indirect lighting
- WALL: Stainless hairline, Stainless hairline etching (SE1591), Stainless mirror trim (30mm), Glass
- DOOR: Stainless hairline
- HARDWARE: Stainless 3-pair / HD / Polished
- OPB: OPP-N264A / Stainless hairline
- INDICATOR: PI-D700
- FLOORING: Deco-tile (DTE2126, DTE3109, DTE4116)

**HG-339A**

3SIDE OBSERVATION ELEVATORS

**Exterior Design**
- EXTERIOR PANELS: Painted steel (E5A351)
- DECORATIVE ILLUMINATIONS: Acryl / LED Lighting / Down Lighting (LED)

**Cage Design**
- CEILING: CD419E (Painted steel / P-024), LED downlight, Sheet (CS172), Acryl
- WALL: Stainless hairline, Stainless hairline etching (SE1591), Stainless mirror trim (30mm), Glass
- DOOR: Stainless hairline
- HARDWARE: Stainless 3-pair / HD / Polished
- OPB: OPP-N264A / Stainless hairline
- INDICATOR: PI-D700
- FLOORING: Deco-tile (DTE2109, DTE2125)

*Numbers and / or size of ceiling panels and number of lighting fixtures will vary per selected car size. *Applicable prices will vary per selected optional designs / materials.

*Colors printed in this catalog may appear different from actual colors.*
**SC-419A**

**SEMI-CIRCLE OBSERVATION ELEVATORS**

**Exterior Design**
- EXTERIOR PANELS: Painted steel [P-021]
- DECORATIVE ILLUMINATIONS: LED Lighting / Fluorescent illuminations through milky-white acrylic covers fitted at bottom of the car covers

**Cage Design**
- CEILING: CD461f (Painted steel / P-017), fluorescent illuminations through milky-white acrylic covers
- WALL: Stainless linen, Stainless mirror trim (Silver), Glass, Sheet
- DOOR: Stainless linen
- HARDWARE: Stainless bar type / Hairline
- OPB: OPP-N256A / Stainless Linen
- INDICATOR: PI-D900
- FLOORING: Granite (Po-cheon) / Water jet

**SC-419B**

**SEMI-CIRCLE OBSERVATION ELEVATORS**

**Exterior Design**
- EXTERIOR PANELS: Painted steel [P-021]
- DECORATIVE ILLUMINATIONS: LED Lighting (Blue) / LED Acrylic Lighting / Down Lighting (LED)

**Cage Design**
- CEILING: Painted steel [P-022], Skylite 10T, LED lighting, Glass
- WALL: Stainless bead blast, Stainless mirror trim (Silver), Glass
- DOOR: Stainless bead blast
- HARDWARE: Stainless 3-pipe 190 / Polished
- OPB: OPP-N256A / Stainless bead blast
- INDICATOR: PI-D900
- FLOORING: Marble (Star galaxy) / Water jet

* Number and/or size of ceiling panels and number of lighting fixtures will vary per selected car sizes. * Applicable prices will vary per selected optional designs / materials.

* Colors printed in this catalog may appear different from actual colors.
SC-846A
SEMI-CIRCLE OBSERVATION ELEVATORS

Exterior Design
- Exterior Panels: Painted steel [G-10081]
- Decorative Illuminations: Fluorescent illuminations through milky-white acrylic covers fitted at top and bottom of the car

Cage Design
- Ceiling: CD523C (Painted steel / P-021, P-022), LED downlight, indirect lighting
- Wall: Stainless 3S vibration, Stainless mirror, Glass
- Door: Stainless 3S vibration
- Hardware: Stainless 316L / Polished
- DPB: OPP-N264A / Stainless 35 vibration
- Indicator: PI-L900
- Flooring: Marble (Empress dark, Crema marfil) / Water jet

ND-01
GLASS - WALLED ELEVATORS

Cage Design
- Ceiling: CD451B (Painted steel / P-022), Skylite 10T, Acryl lens
- Wall: Stainless hairline, Glass
- Door: Stainless hairline, Glass, Semitransparent sheet
- Hardware: Stainless 316L / Polished
- DPB: OPP-N264A / OPP-N264A (For disabled) / Stainless hairline
- Indicator: PI-D700
- Flooring: Deco-tile (DTE5324, DTE2455)

* Number and/or size of ceiling panels and number of lighting fixtures will vary per selected car size. * Applicable prices will vary per selected optional designs / materials.

* Colors printed in this catalog may appear different from actual colors.
**ND-02**

**GLASS - WALLEDELEVATORS**

**Cage Design**

- **CEILING**: CD253A (Painted steel / P-021, P-022), LED downlight, Skylite 10T
- **WALL**: Stainless hairline, Glass
- **DOOR**: Stainless hairline, Glass, Semi-transparent sheet
- **HANDRAIL**: Stainless 1 pipe (1R) / Polished
- **OPB**: OPP-N264A, OPP-N264A (for disabled) / Stainless hairline
- **INDICATOR**: PI-L700
- **FLOORING**: Deco-tile (DTE3216, DTE2217)

**NDFL-01**

**FRAMELESS GLASS - WALLEDELEVATORS**

**Cage Design**

- **CEILING**: PTS hairline, LED downlight
- **WALL**: PTS hairline, Glass (16T)
- **DOOR**: PTS hairline, Glass (16T), Fog sheet
- **HANDRAIL**: Stainless 1 pipe (1R) / Polished
- **OPB**: Swing type OPP-N266A / PTS hairline
- **INDICATOR**: PI-D900
- **FLOORING**: Marble (White galaxy)

*Colors printed in this catalog may appear different from actual colors.*

*Number and/or size of ceiling panels and number of lighting fixtures will vary per selected car size.*

*Applicable prices will vary per selected optional designs/materials.*
ELEVATOR FIXTURES

DESIGN

CAR OPERATING PANEL

OPP-N264A OPP-N266A OPP-N282A OPP-N528 OPP-D528 OPP-N521 OPP-D521

* Colors printed in this catalog may appear different from actual colors.
**HALL BUTTON**

**Boxless Type**

- HTB-C100
- HIT-DC100
- HIT-LC100
- HIP-LA64
- HIP-LB64
- HIP-LB64F (Functions backlit)

- HPB-B64
- HPB-C64
- HPB-A64
- HPB-AL64
- HPB-DL21
- HPB-DL21
- HPB-DL21
- HPB-DL21

**Box Type**

- HPB-221
- HPB-222
- HPB-36A
- HPB-36B

---

**INDICATOR**

**Boxless Type**

- PI-L700
- PI-L700
- PI-L700
- PI-L700

**Box Type**

- PI-L100
- PI-L310
- PI-D310
- PI-D800
- PI-D800
- PI-D800
- PI-D800

* Box type doesn’t apply to glass transom.

* Colors printed in this catalog may appear different from actual colors.
**CEILING**

- CD191A
- CD191B
- CD192A
- CD192B
- CD391A
- CD391B
- CD591A
- CD591B
- CD691A
- CD691B
- CD891A
- CD891B

**HALL LANTERN**

* Hall lantern colors are lime green when the elevator is going up and yellow gold when it is going down.

- HLS-790
- HLS-879
- HLS-890
- HLS-880
- HLS-881 (Half-mirror type)
- HLS-660
- HLS-661
- HLS-750
- HLS-770
- HLS-790
- HLS-890
- HLS-800
- HLS-801
- HLS-802
- HLS-803

**BUTTON**

- 21 TYPE
- 21 TYPE
- 82 TYPE
- 82 TYPE
- 64 TYPE
- 64 TYPE
- 64 TYPE

**HANDRAIL**

1RE Pipe Stainless Polished

* Colors printed in this catalog may appear different from actual colors.
**ETCHING PATTERN**

*Etching patterns in this catalog are 1/3 of the actual size.*

<table>
<thead>
<tr>
<th>SE1168</th>
<th>SE1169</th>
<th>SE1172</th>
<th>SE1591</th>
<th>SE2202</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SE2383</td>
<td>SE2384</td>
<td>SE2385</td>
<td>SE2386</td>
<td>SE2387</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SE2388</td>
<td>SE2389</td>
<td>SE2390</td>
<td>SE2391</td>
<td>SE2392</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PAINTED STEEL**

*PO16, PO20, and PO21 are metallic colors and may appear different from the actual colors.*

<table>
<thead>
<tr>
<th>P003</th>
<th>P004</th>
<th>P006</th>
<th>P007</th>
<th>P011</th>
<th>P012</th>
<th>P014</th>
<th>P017</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P019</td>
<td>P020</td>
<td>P021</td>
<td>P022</td>
<td>P023</td>
<td>P024</td>
<td>P025</td>
<td></td>
</tr>
</tbody>
</table>

**FLOOR**

- **Deco tile**
  - DT2225
  - DT2226
  - DT2266
  - DT2291

- **Artificial marble**
  - BL01
  - BL02
  - BL03
  - BL05

**WINDOW SIZE**

- **Standard**
- **Optional**

*Colors printed in this catalog may appear different from actual colors.*
LUXEN(GEARLESS) LAYOUT PLAN

1 SIDE TYPE, 2 SIDE TYPE ELEVATORS

LAYOUT PLAN

Plan of Hoistway & Machine Room

Section of Hoistway

MANUFACTURER STANDARD

<table>
<thead>
<tr>
<th>Type</th>
<th>Speed (m/sec)</th>
<th>Capacity (kg)</th>
<th>Opening Type</th>
<th>Opening Size (mm)</th>
<th>Car Size (mm)</th>
<th>Hoistway Size (mm)</th>
<th>M/C Room Reaction (kg)</th>
<th>Pit Reaction (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.0</td>
<td>450</td>
<td>2D-C0</td>
<td>1400 × 850</td>
<td>1200 × 1050</td>
<td>2400 × 2700</td>
<td>6400</td>
<td>5790</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>550</td>
<td>2D-C0</td>
<td>1600 × 1030</td>
<td>1300 × 1350</td>
<td>2600 × 3000</td>
<td>7300</td>
<td>6200</td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>600</td>
<td>2D-C0</td>
<td>1900 × 1150</td>
<td>1600 × 1610</td>
<td>2800 × 3300</td>
<td>7600</td>
<td>6600</td>
</tr>
<tr>
<td></td>
<td>2D-C0</td>
<td>750</td>
<td>600</td>
<td>2400 × 2050</td>
<td>1900 × 2350</td>
<td>3000 × 3600</td>
<td>8200</td>
<td>6500</td>
</tr>
<tr>
<td></td>
<td>2D-C0</td>
<td>750</td>
<td>1000</td>
<td>2800 × 2400</td>
<td>2200 × 2650</td>
<td>3200 × 3900</td>
<td>8000</td>
<td>6800</td>
</tr>
<tr>
<td></td>
<td>2D-C0</td>
<td>1000</td>
<td>1000</td>
<td>3000 × 2600</td>
<td>2400 × 2850</td>
<td>3400 × 4200</td>
<td>8900</td>
<td>7200</td>
</tr>
<tr>
<td></td>
<td>2D-C0</td>
<td>1500</td>
<td>1000</td>
<td>3500 × 3000</td>
<td>2800 × 3250</td>
<td>3800 × 4500</td>
<td>10100</td>
<td>8700</td>
</tr>
<tr>
<td></td>
<td>2D-C0</td>
<td>1500</td>
<td>1500</td>
<td>3800 × 3300</td>
<td>3000 × 3550</td>
<td>4100 × 4800</td>
<td>12000</td>
<td>10500</td>
</tr>
<tr>
<td></td>
<td>2D-C0</td>
<td>1500</td>
<td>1500</td>
<td>4000 × 3500</td>
<td>3200 × 3750</td>
<td>4300 × 5100</td>
<td>14100</td>
<td>12300</td>
</tr>
</tbody>
</table>

※ Above dimensions are applied based on Standard Car size & Opening size. For other applicable dimensions, please contact us.

※ In case to apply with additional weight like as marble finish on floor, Please contact us.

※ If apply the safety gear on Counterweight side, please consult with us.

※ The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoist height.

※ Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.

Overhead & Pit Depth

<table>
<thead>
<tr>
<th>Code</th>
<th>Speed (m/sec)</th>
<th>Duty Load (kg)</th>
<th>Overhead (OH)</th>
<th>Pit Depth (PP)</th>
<th>M/C Room Height (MH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN81-1</td>
<td>1.0</td>
<td>450 – 1400</td>
<td>CH-1900</td>
<td>1750</td>
<td>2200</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td></td>
<td>CH-2100</td>
<td>1900</td>
<td>2400</td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td></td>
<td>CH-2250</td>
<td>2000</td>
<td>2600</td>
</tr>
</tbody>
</table>

※ For OH: Base on the distance between the car top safety guard and shaft wall is less than 800mm. Refer to EN81-20. The above OH comply the safety guard height with 1100mm.

※ If want to reduce the overhead, shall be proposed with semi-observation type. It means that without exterior panel and lighting.

※ M/C room height shall be increased 200mm in case of the traction machine with double isolation pad.

※ Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.
LAYOUT PLAN

Plan of Hoistway & Machine Room

Section of Hoistway

3 Side Type

Round Type

MANUFACTURER STANDARD

<table>
<thead>
<tr>
<th>Type</th>
<th>Speed (m/sec)</th>
<th>Capacity</th>
<th>Opening Type</th>
<th>Opening Size (mm)</th>
<th>Car Size</th>
<th>Hoistway Size (mm)</th>
<th>Machine Room Size (mm)</th>
<th>N/C Room Reaction (kg)</th>
<th>Pit Reaction (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Side</td>
<td>1.0</td>
<td>750</td>
<td>2P-CO</td>
<td>1400×1600</td>
<td>2450</td>
<td>3500×3500</td>
<td>7150</td>
<td>11000</td>
<td>3450</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>1150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Round</td>
<td>1.0</td>
<td>750</td>
<td>2P-CO</td>
<td>1400×1600</td>
<td>2450</td>
<td>3500×3500</td>
<td>7150</td>
<td>11000</td>
<td>3450</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>1150</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*For CH: Base on the distance between the car top safety guard and shaft wall is less than 800mm. Refer to EN81-20. The above CH complied the safety guard height with 1100mm.

*For M/C room: Traction machine with double isolation pad.

*If the height of non-stop floor is over 11m, please consult Hyundai as to the needs for emergency exit.

*Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary), and humidity below 90%.

CH: (External) Car Height

<table>
<thead>
<tr>
<th>Code</th>
<th>Speed (m/s)</th>
<th>Duty Load (kg)</th>
<th>Overhead (OH)</th>
<th>Pit Depth (PP)</th>
<th>M/C Room Height (MlH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0</td>
<td>CH=1900</td>
<td>2000</td>
<td>2200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>CH=2100</td>
<td>2100</td>
<td>2400</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>CH=2200</td>
<td>2200</td>
<td>2600</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Speed (m/s)</th>
<th>Duty Load (kg)</th>
<th>Overhead (OH)</th>
<th>Pit Depth (PP)</th>
<th>M/C Room Height (MlH)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0</td>
<td>CH=2250</td>
<td>2080</td>
<td>2200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>CH=2300</td>
<td>2100</td>
<td>2400</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>CH=2350</td>
<td>2200</td>
<td>2600</td>
<td></td>
</tr>
</tbody>
</table>
**LUXEN(GEARLESS) LAYOUT PLAN**

**NUDE TYPE ELEVATORS**

### MANUFACTURER STANDARD

<table>
<thead>
<tr>
<th>Type</th>
<th>Speed (m/s)</th>
<th>Capacity (kg)</th>
<th>Opening Type</th>
<th>Opening Size (mm)</th>
<th>Car Size (mm)</th>
<th>Hoistway Size (mm)</th>
<th>Machine Room Size (mm)</th>
<th>M/C Room Reaction (kg)</th>
<th>Pit Reaction (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nude</td>
<td>1.0</td>
<td>8</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>5450</td>
<td>3050</td>
<td>7800</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>9</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>5450</td>
<td>3150</td>
<td>8200</td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>10</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>6000</td>
<td>3600</td>
<td>8750</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>6200</td>
<td>3500</td>
<td>9300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>6500</td>
<td>3800</td>
<td>9900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>6950</td>
<td>3800</td>
<td>10500</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>7200</td>
<td>4000</td>
<td>11150</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>8050</td>
<td>4350</td>
<td>13150</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>9000</td>
<td>4750</td>
<td>15300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>9300</td>
<td>4900</td>
<td>15850</td>
</tr>
<tr>
<td></td>
<td></td>
<td>18</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>9600</td>
<td>5200</td>
<td>17200</td>
</tr>
<tr>
<td></td>
<td></td>
<td>19</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>10250</td>
<td>5600</td>
<td>18800</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</td>
<td>CA + CB</td>
<td>1420×1030</td>
<td>2300×1500</td>
<td>2700×3000</td>
<td>10900</td>
<td>5900</td>
<td>20500</td>
</tr>
</tbody>
</table>

※ For OH: Base on the distance between the car top safety guard and shaft wall is less than 800mm refer to EN81-20, The above OH complied the safety guard height with 1100mm.

※ M/C room height shall be increased 200mm in case of the traction machine with double isolation pad.

※ If the height of non-stop floor is over 11m, please consult Hyundai as to the needs for emergency exit.

※ Machine room temperature should be maintained below 35°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.

---

**Plan of Hoistway & Machine Room**

**Section of Hoistway**

- **Overhead & Pit Depth**
  - Code: EN81-1
    - Speed (m/s): 1.0
    - Duty Load (kg): 1450
    - OH: 2300
  - Code: EN81-20
    - Speed (m/s): 1.5
    - Duty Load (kg): 2400
    - OH: 2600
  - Code: CH
    - Speed (m/s): 1.5
    - Duty Load (kg): 450 to 1600
    - OH: 2600
NEW YZER LAYOUT PLAN

1 SIDE TYPE, 2 SIDE TYPE ELEVATORS

LAYOUT PLAN

Plan of Hoistway & Machine Room

Section of Hoistway

THE CEILING OF HOISTWAY AND WITHIN 500MM ABOVE THE BOTTOM OF THE PIT (BY OTHERS)

THE WINDOW OF BUILDING (BY CONSTRUCTION)

The arrangement & size of Control Panel shall be refer to the dimension table.

The lighting of hoistway should be installed less than 500mm from above the ceiling of hoistway and within 500mm above the bottom of the pit (BY OTHER).

The window of building (BY Construction)

The lighting of hoistway should be installed less than 500mm from above

Safety gear on Counterweight side, please consult with us.

In case to apply with additional weight like as marble finish on floor, Please contact us.

Above dimensions are applied base on Standard Car size & Opening size. For other applicable dimensions, please contact us.

The ceiling of hoistway and within 500mm above the bottom of the pit (BY OTHERS).

Window of building (BY Construction)

The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoist height.

If apply the safety gear on Counterweight side, please consult with us.

In case to apply with additional weight like as marble finish on floor, Please contact us.

Above dimensions are applied base on Standard Car size & Opening size. For other applicable dimensions, please contact us.

If want to reduce the overhead, shall be proposed with semi-observation type. It means that without exterior panel and lighting.

MANUFACTURER STANDARD

Speed (m/sec) Opening Type Opening Size (mm) Car Size (mm) Hoistway Size (mm) Control Panel (Basemnt)(mm) M/C Room Reaction (kg) Pit Reaction (kg)

<table>
<thead>
<tr>
<th>Type</th>
<th>Speed</th>
<th>Capacity</th>
<th>Opening Type</th>
<th>Opening Size (mm)</th>
<th>Car Size (mm)</th>
<th>Hoistway Size (mm)</th>
<th>Control Panel (Basemnt)(mm)</th>
<th>M/C Room Reaction (kg)</th>
<th>Pit Reaction (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>8</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>9</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>10</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>11</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>12</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>13</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>14</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>15</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>16</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>17</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>18</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>19</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
<td>2p-CO</td>
<td>20</td>
<td>1300×1100</td>
<td>2100×1750</td>
<td>750</td>
<td>8000</td>
<td>6000</td>
</tr>
</tbody>
</table>

Note.2

Code: Speed (m/s) Duty Load (kg) Overhead (OH) Pit Depth (PP)

<table>
<thead>
<tr>
<th>Code</th>
<th>Speed (m/s)</th>
<th>Duty Load (kg)</th>
<th>Overhead (OH)</th>
<th>Pit Depth (PP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN81-1</td>
<td>1.0</td>
<td>2600</td>
<td>1750</td>
<td></td>
</tr>
<tr>
<td>EN81-1</td>
<td>1.5</td>
<td>1600</td>
<td>1750</td>
<td></td>
</tr>
<tr>
<td>EN81-1</td>
<td>2.0</td>
<td>1600</td>
<td>1750</td>
<td></td>
</tr>
<tr>
<td>EN81-1</td>
<td>2.5</td>
<td>1600</td>
<td>1750</td>
<td></td>
</tr>
<tr>
<td>EN81-1</td>
<td>3.0</td>
<td>1600</td>
<td>1750</td>
<td></td>
</tr>
<tr>
<td>EN81-1</td>
<td>3.5</td>
<td>1600</td>
<td>1750</td>
<td></td>
</tr>
<tr>
<td>EN81-1</td>
<td>4.0</td>
<td>1600</td>
<td>1750</td>
<td></td>
</tr>
<tr>
<td>EN81-1</td>
<td>4.5</td>
<td>1600</td>
<td>1750</td>
<td></td>
</tr>
<tr>
<td>EN81-1</td>
<td>5.0</td>
<td>1600</td>
<td>1750</td>
<td></td>
</tr>
</tbody>
</table>

For OH: Base on the distance between the car top safety guard and shaft wall is less than 800mm. Refer to EN81-20. The above OH complied the safety guard height with 1100mm.

For CH: Based on the distance between the car top safety and shaft wall is less than 800mm. Refer to EN81-20. The above OH complied the safety guard height with 1100mm.
**NEW YZER LAYOUT PLAN**

**NUDE TYPE ELEVATORS**

### LAYOUT PLAN

#### Plan of Hoistway & Machine Room

- **Window of Building (By Construction)**
- **Lighting (By other)**
- **Suspension Hook (By other)**
- **Lighting (By other)**

#### Section of Hoistway

- **Traction Machine**
- **Exterior Panel**
- **Ceiling**
- **Exterior Panel**

### OTHER FLOORS

- **Distributor Board (By other)**
- **Lighting Window of Building (By other)**
- **Lighting (By other)**

### TOP FLOOR

- **Lighting Window of Building (By other)**
- **Ceiling**

### MANUFACTURER STANDARD

#### Type Speed (m/s) Capacity Opening Type Opening Size (mm) Car Size (mm) Hoistway Size (mm) Central Panel (Best) (mm) M/C Room Reaction (kg) Pit Reaction (kg)

<table>
<thead>
<tr>
<th>Type</th>
<th>Speed (m/s)</th>
<th>Capacity</th>
<th>Opening Type</th>
<th>Opening Size (mm)</th>
<th>Car Size (mm)</th>
<th>Hoistway Size (mm)</th>
<th>Central Panel (Best) (mm)</th>
<th>M/C Room Reaction (kg)</th>
<th>Pit Reaction (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nude</td>
<td>1.0</td>
<td>550</td>
<td>2P-CO</td>
<td>800 × 1100</td>
<td>2150 × 1750</td>
<td>L31</td>
<td>-</td>
<td>8190</td>
<td>7000</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>600</td>
<td>2P-CO</td>
<td>900 × 1300</td>
<td>2150 × 1800</td>
<td>L31</td>
<td>-</td>
<td>9190</td>
<td>7600</td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>700</td>
<td>2P-CO</td>
<td>1100 × 1500</td>
<td>2150 × 1900</td>
<td>L31</td>
<td>-</td>
<td>9400</td>
<td>7900</td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>800</td>
<td>2P-CO</td>
<td>1230 × 2100</td>
<td>2250 × 1750</td>
<td>L31</td>
<td>-</td>
<td>10000</td>
<td>8700</td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>1000</td>
<td>2P-CO</td>
<td>1300 × 2000</td>
<td>2350 × 1850</td>
<td>L31</td>
<td>-</td>
<td>11190</td>
<td>9700</td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>1300</td>
<td>2P-CO</td>
<td>1400 × 2250</td>
<td>2450 × 2350</td>
<td>L31</td>
<td>-</td>
<td>12790</td>
<td>11200</td>
</tr>
</tbody>
</table>

* Above dimensions are applied base on Standard Car size & Opening size. For other applicable dimensions, please contact us.

* If apply the safety gear on Counterweight side, please consult with us.

* The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoist height.

#### Overhead & Pit Depth

<table>
<thead>
<tr>
<th>Code</th>
<th>Speed (m/s)</th>
<th>Duty Load (lg)</th>
<th>Overhead (OH)</th>
<th>Pit Depth (PP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN81-1</td>
<td>1.0</td>
<td>600 - 1600</td>
<td>CH+2600</td>
<td>1400</td>
</tr>
<tr>
<td></td>
<td>1.5</td>
<td>1500</td>
<td>CH+2100</td>
<td>1500</td>
</tr>
<tr>
<td></td>
<td>1.75</td>
<td>1700</td>
<td>CH+2200</td>
<td>1700</td>
</tr>
</tbody>
</table>

* Above dimensions are applied base on Standard Car size & Opening size. For other applicable dimensions, please contact us.

* The arrangement & size of Control Panel, shall refer to the dimension table.

* The overhead & pit depth are based on clear dimension ±20mm horizontal tolerances over the total hoist height.

### Other

- **Ladder (By other)**
- **Lighting Window of Building (By other)**
- **Lighting Window of Building (By other)**
- **Lighting Window of Building (By other)**

### EN81

- **Speed (m/s) | Duty Load (lg) | Overhead (OH) | Pit Depth (PP)**
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>600 - 1600</td>
<td>CH+2600</td>
<td>1400</td>
</tr>
<tr>
<td>1.5</td>
<td>1500</td>
<td>CH+2100</td>
<td>1500</td>
</tr>
<tr>
<td>1.75</td>
<td>1700</td>
<td>CH+2200</td>
<td>1700</td>
</tr>
</tbody>
</table>

* Above dimensions are applied base on Standard Car size & Opening size. For other applicable dimensions, please contact us.

* The overhead & pit depth are based on clear dimension ±20mm horizontal tolerances over the total hoist height.
ELEVARORS

Building Work

01. Clear, plumb hoistway with fire resistant hat walls as required by the applicable code. (Rule 100.1a)

02. 75° level guards on all projections, recesses, or setbacks over 500mm except on side used for loading or unloading. (Rule 100.6)

03. Venting of the hoistway as required by the applicable code or responsible authority. (Rule 100.6)

04. Supports for rigid rail brackets at each floor, roof, and machine room. (Rule 200.1) Maximum allowable vertical spacing of rail supports without backing. (Rule 200.4 and 301.1) Sider beams 100mm between hoistways at each floor and roof, for guide rail bracket supports. (Rule 200.4 and 301.1)

05. Recesses as patching is required to accommodate hall button boxes, signal fixtures, etc.

06. All barricades either outside elevator hoistways or between inside hoistways as required.

07. Dry pit reinforced to sustain normal vertical forces from rails and buffers. (Rule 100.6)

08. Recesses supports and patching as required to accommodate hall button boxes, door of the machine room. (Rule 210.5 and 306.7)

09. Entrance walls and finished floor are not to be constructed until after door operation, elevator machinery is set in position, and proper grouting of joint to maintain legal fire rating. (Rule 200.9)

10. Door frames and finished floor are not to be constructed until after door frames and tiles are in place. Door frames are to be anchored to walls and properly grouted in place to maintain legal fire rating.

11. For application into an indoor or outdoor observation elevator, a glass enclosure of at least 3.6m in height at the bottom landing is recommended for safety. For use as an outdoor observation elevator, a full-height glass enclosure is required.

12. When provisions for earthquake protection are required, consult Hyundai Elevator Company for special requirements. (Rule 300.6)

Electrical Work

01. Light outlet for each elevator, in center of hoistway (or in machine room) as indicated by Hyundai Elevator Company.

02. Convenience outlet and light fixture in main switch located adjacent to the access door. (Rule 106.1a)

03. We have installed piping of emergency bell, interphone, etc. outside the hoistway and machine room.

Machine Room

04. Lighting, convenience outlets, ventilation, heating of machine room, and machinery space. (Rule 101.5)

05. Temperature should be maintained below 60°C by a ventilating fan and/or air conditioner, if necessary, and humidity below 90%. A fused disconnect switch or circuit breaker for each elevator and light switch located per the applicable code and where practicable located adjacent to the door of the machine room. (Rule 210.5 and 301.1)

07. Feeder and branch wiring to the controller, including main-line switch and convenience outlets.

08. Suitable power feeder and branch wiring circuits as required for elevators with power-operated doors, including disconnect switch or circuit breaker.

09. Elevator fireman’s and other emergency services wiring and interconnections to switches, disconnect switch or circuit breaker, if required in the pit.

10. When emergency power operation of elevators is required, the electrical contractor should coordinate with Hyundai Elevator Company for special distribution for operation requirements.

11. Elevator fireman’s and other emergency services wiring and interconnections to switches, disconnect switch or circuit breaker, if required in the pit.

12. When provisions for earthquake protection are required, consult Hyundai Elevator Company for special requirements.

Power Supply Plan

The power cable size is based on full load operating condition. It is the max. 50m.

### Observation Elevator Hoistway Requirement

- Observation and glass-walled elevator’s hoistway glass needs to be laminated glass. Please consult Hyundai when using other type of glass.

- Hoistway’s glass joint needs to be weather-proof.

### Exterior Lighting

- The lamps used for the exterior illumination shall be designed for long life and easy replacement.

- The electric power requirements may vary per elevator model and illumination designs, however, the proper power source required is 3AC 10, 220V, 20A-30A range.

### Air-Conditioning & Ventilation

- The in-car temperature of the observation elevator can be highly increased because of the solar radiation heat, this factor should be considered in planning the hoistway layout.

- When required by the building, the air-conditioning can be installed the observation elevator. When the air-conditioner is installed, a water drain is required in the pit.

- The hoistway and the machine room should be properly ventilated to prevent excessive temperature rise.

### Data Required for Elevator Estimation

- Project Name and Location
- Applicable Code (ANSI, BS, JIS, CEN, etc.)
- Required Delivery
- Type & Units in System
- Capacity
- Speed
- Control / Operation System
- Landings & Openings (Front & Rear)
- Machine Location (Floor/Backroom)
- Travel, Overhead & P.L. Depth
- Hoistway width, Depth and Excavation
- Door Width & Height
- Car & Entrance Design
- Signal Fixtures
- Special Features Required
- Power Supply

### Heat Emission of Machine Room

Q : (kcal/H)=W x V x f x N

W: Capacity (kW)  F: Factor (1/2 - 7VF) V: Speed(m/min) N: Number of cars