Case Study

Condomínio Conjunto Nacional | 1956

Edifício Itália | 1965
Condomínio Conjunto Nacional

Architect | David Libeskind

Opening | 1956

Orientation | Northeast

Address | Paulista Ave. 2073

27 floors

97.6 meters high

124,277.6 square meters

Ceiling height 2,55 meters

Reinforced concrete structures

Pilotis | Marquises | Brise-soleil

Opened ground plane
History

First establishment | 1957

Conclusion of construction | 1962

Preservation statement | 2005
Urban Context

Paulista Ave. | 1950

Paulista Ave. | 1970

Paulista Ave. | 2016 (on Sundays)

Skyline | 2012
Architecture

Vertical Block

Horsa II  Horsa I  Guayupá

Horizontal Block
Architecture

Condomínio Conjunto Nacional | 1956

Paulista Ave.

80.6m

14m

72m

Commercial and Residential use

Commercial use and Recreation area

Shopping center

Garage
Condomínio Conjunto Nacional | 1956

Architecture

Ground floor
Architecture

Terrace
Architecture

24th floor (original)
Measurements

- 24th floor
- Southwest facade (Santos Ave.)
- Administration

- Summer and Winter 2016

- Internal and External air temperature
- Globe temperature
- Internal and External Iluminace
- Relative humidity
- Airspeed
Operational Department

- 3 occupants from 9h to 18h
- A computer for each desk
- White interior wall
- Partially opened shutters
- Artificial lights on
- Air conditioning on, setpoint between 20º and 24ºC
- Windows opened twice a week in the morning
- Glare at the end of the day
Operational Department

Summer 2016

- Partially opened shutters
- Artificial lights on
- Air conditioning on
- Windows opened twice a week in the morning
Operational Department

Summer 2016

Partially opened shutters
Artificial lights on
Air conditioning on
Windows opened twice a week in the morning
Operational Department

Summer 2016

- Partially opened shutters
- Artificial lights on
- Air conditioning on
- Windows opened twice a week in the morning
Operational Department

Summer 2016

Partially opened shutters
Artificial lights on
Air conditioning on
Windows opened twice a week in the morning
Operational Department

Winter 2016

Partially opened shutters
Artificial lights on
Air conditioning on
Windows opened twice a week in the morning
Operational Department

Winter 2016

Partially opened shutters
Artificial lights on
Air conditioning on
Windows opened twice a week in the morning
Operational Department

Winter 2016

- Partially opened shutters
- Artificial lights on
- Air conditioning on
- Windows opened twice a week in the morning
Comunication Room

- 2 occupants from 9h to 18h
- A computer for each desk
- White interior wall
- Partially opened shutters
- Artificial lights off
- Air conditioning off
- Windows closed
- No glare
Comunication Room

Summer 2016

Partially opened shutters
Artificial lights off
Air conditioning off
Windows closed
Comunication Room

Summer 2016

Partially opened shutters
Artificial lights off
Air conditioning off
Windows closed
Communication Room

Summer 2016

Partially opened shutters
Artificial lights off
Air conditioning off
Windows closed
Comunication Room

Summer 2016

Partially opened shutters
Artificial lights off
Air conditioning off
Windows closed
Comunication Room

Winter 2016

Partially opened shutters
Artificial lights off
Air conditioning off
Windows closed
Comunication Room

Winter 2016

Partially opened shutters
Artificial lights off
Air conditioning off
Windows closed
Comunication Room

Winter 2016

Partially opened shutters
Artificial lights off
Air conditioning off
Windows closed
Edifício Itália

**Architect** | Adolf Franz Heep

**Opening** | 1965

**Orientation** | East

**Address** | Ipiranga Ave. 344

47 floors

151 meters high

52,000 square meters

4,000 Windows

Ceiling height 2,65 meters

Movable brise-soleil

2nd tallest building in Sao Paulo
History

Beginning of construction | 1960

Conclusion of construction | 1965

Preservation statement | 1992
Urban Context

Downtown galleries (Sabrina Studart Costa, 2010)
Architecture

Restaurant

Commercial Use

Circolo Italiano

Commercial Center

Theater
Architecture

Ground floor

8th floor

Edifício Itália | 1965
Architecture

Edifício Itália | 1965
Measurements

• 13th and 33th floor
• East and West facade
• Naturally ventilated office (2015)
• Empty room (2016)

• Summer 2015 and Winter 2016

• Internal and External air temperature
• Globe temperature
• Internal and External Iluminance
• Relative humidity
• Airspeed
13th | 33rd Floor
Office

13th floor:
- 30 occupants from 9h to 18h
- A computer for each desk
- White interior wall
- Opened brise-soleils
- Artificial lights on
- Air conditioning off
- Windows opened

33rd floor:
- 40 occupants 24h
- A computer for each desk
- White interior wall
- Closed brise-soleils
- Artificial lights on
- Air conditioning on
- Windows closed
13th Floor Office

Summer 2015

Opened brise-soleils
Artificial lights on
Air conditioning off
Windows opened

- West facade
- East facade
13th Floor Office

Summer 2015

Opened brise-soleils
Artificial lights on
Air conditioning off
Windows opened

West facade
East facade
Opened brise-soleils
Artificial lights on
Air conditioning off
Windows opened

- West facade
- East facade
Opened brise-soleils
Artificial lights on
Air conditioning off
Windows opened

West facade
East facade
33th Floor Office

Summer 2015

Closed brise-soleils
Artificial lights on
Air conditioning on
Windows closed

- West facade
- East facade

Intensidade Luminosa (Lux)
33º Pavimento da torre - 20-22 de março de 2015

Domingo  
Segunda-feira  
Terça-feira  

<table>
<thead>
<tr>
<th>Lux</th>
<th>10,000 Lux</th>
<th>9,000 Lux</th>
<th>8,000 Lux</th>
<th>7,000 Lux</th>
<th>6,000 Lux</th>
<th>5,000 Lux</th>
<th>4,000 Lux</th>
<th>3,000 Lux</th>
<th>2,000 Lux</th>
<th>1,000 Lux</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lux</td>
<td>60,000 Lux</td>
<td>50,000 Lux</td>
<td>40,000 Lux</td>
<td>30,000 Lux</td>
<td>20,000 Lux</td>
<td>10,000 Lux</td>
<td>0 Lux</td>
<td>0 Lux</td>
<td>0 Lux</td>
<td>0 Lux</td>
</tr>
</tbody>
</table>
Empty Room

- **East Facade:**
  - White interior wall
  - Partially closed brise-soleils
  - Artificial lights off
  - Air conditioning off
  - Windows closed

- **West Facade:**
  - White interior wall
  - Opened brise-soleils
  - Artificial lights off
  - Air conditioning off
  - Windows opened
Empty Room
East Facade

Winter 2016

Partially closed brise-soleils
Artificial lights off
Air conditioning off
Windows closed
Empty Room
West Facade

Winter 2016

Opened brise-soleils
Artificial lights off
Air conditioning off
Windows opened
Latitudes Global Studio

Commercial Buildings in São Paulo

SÃO PAULO | NOVEMBER 2016