Torre de Collserola

Identification

<table>
<thead>
<tr>
<th>EBN</th>
<th>112039</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Torre de Collserola</td>
</tr>
<tr>
<td>Construction Type</td>
<td>telecommunications tower</td>
</tr>
<tr>
<td>Current Status</td>
<td>existing [completed]</td>
</tr>
</tbody>
</table>

Location

<table>
<thead>
<tr>
<th>Continent Name</th>
<th>Europe</th>
<th>District (1st level)</th>
<th>Sarrià-Sant Gervasi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country Name</td>
<td>Spain</td>
<td>District (2nd level)</td>
<td>Vallvidrera, el Tibidabo i les Planes</td>
</tr>
<tr>
<td>State Name</td>
<td>Catalunya</td>
<td>Address (as text)</td>
<td>Camí de Vallvidrera al Tibidabo, 12</td>
</tr>
<tr>
<td>Metro Area Name</td>
<td>Àrea metropolitana de Barcelona</td>
<td>Main Address</td>
<td>Camí de Vallvidrera al Tibidabo, 12</td>
</tr>
</tbody>
</table>
**City Name**
Barcelona

**Map**

![Map of Torre de Collserola](image)

**Description**

**Main Usage**
- radio transmission
- tv transmission

**Spatial dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (structural)</td>
<td>945.01 ft</td>
<td></td>
</tr>
<tr>
<td>Floors (overground)</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Height (tip)</td>
<td>945.01 ft</td>
<td></td>
</tr>
<tr>
<td>Elevators</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Height (obs. deck)</td>
<td>445.01 ft</td>
<td></td>
</tr>
<tr>
<td>Usable Floor Area (UFA)</td>
<td></td>
<td>Contact us</td>
</tr>
</tbody>
</table>

**Years and costs**

| Year (construction start) | 1990 | Year (construction end) | 1992 |

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Tokyo 04:00 pm - 02:00 am
Features & Amenities

• One of the city's famous buildings

Facts

• Torre de Collserola is a member of the World Federation of Great Towers.
• The public observation deck, 590 meters above sea level, is reached by an elevator which starts inside the mountain.
• The tower was inaugurated on 27 of June 1992.
• The tower is made of: 205 meters of concrete, a tubular steel structure of 38 meters and a steel structure of 45 meters.
• The base is 425 meters above sea level. The observation deck is 560 meters above sea level and the total height above sea level is 713 meters.
• The elevator speed is 1 m/s and arrives at the observation deck in 2 minutes.
• The 13 platforms are between 84m and 152m.
• In the top section there are 3 series of 7, 56mm cables running in parallel.
• The weight of the metal structure is 3,000 Tm.
• From the observation deck you can see up to 70 kilometres on a clear day.
• The observation deck is open from 11.00 to 14.30 and 15.30 to 18.00; it is closed on Monday and Thursday. The cost of admission is 4.4 €.
• Ordinarily, a conventional reinforced concrete core of 25 meters in diameter would have been required for the 288 meter structure. However a new structural concept was employed: hybrid concrete and steel-braced tubes with a base of 4.5 meters in diameter.
• In order to meet a construction programme of 24 months, the observation deck and other platforms were built on the ground and then jacked inch by inch into position.
• There are 180, 15 mm parallel cables at the first section.
• In the basement there is a reception with a bar and photos of other TV towers from around the world.
• The cables that hold the tower are made of Kevlar, which is transparent to broadcasting signals.

Involved companies

Architect....................................................................................................................

Sir Norman Foster & Partners
22 Hester Road
SW11 4AN London

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### Additional company data available for this building

<table>
<thead>
<tr>
<th>Category</th>
<th>Supplier</th>
<th>Contact</th>
<th>Additional Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Supplier</td>
<td></td>
<td>Contact us</td>
<td></td>
</tr>
<tr>
<td>Construction Company</td>
<td></td>
<td>Contact us</td>
<td>Roofing Supplier</td>
</tr>
<tr>
<td>Crane Supplier (construction)</td>
<td></td>
<td>Contact us</td>
<td>Structural Engineering</td>
</tr>
<tr>
<td>Facade Maintenance System Supplier</td>
<td></td>
<td>Contact us</td>
<td>Supplier</td>
</tr>
<tr>
<td>Fire Protection Engineering</td>
<td></td>
<td>Contact us</td>
<td>Window Installation</td>
</tr>
<tr>
<td>Glass Supplier</td>
<td></td>
<td>Contact us</td>
<td>Window Supplier</td>
</tr>
</tbody>
</table>

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