

# EUREKA SKYDECK FACTS



- Eureka Tower opened on the 11<sup>th</sup> of October 2006, taking 4 years and 2 months to complete
- Construction cost approximately A\$500 million
- 297.3 metres high/300metres above sea level
- Eureka's lifts are the fastest in the Southern Hemisphere
- Lifts travel at more than 9 metres per second
- The façade consists of glass and aluminium panels covering an area of 40,000 square metres
- The glass on the top 11 floors is 24 carat gold infused
- The Tower used 110,000 tonnes of concrete and weighs 200,000 tonnes
- The building consists of 92 storeys and 3,680 stairs
- The Skydeck is situated on the 88<sup>th</sup> floor and is the highest public vantage point at 285metres, in the Southern Hemisphere
- The top of the tower can flex up to 600mm in high winds. Two 300,000 litre water tanks on level 90 and 91 help to dampen the oscillations

# EUREKA SKYDECK ATTRACTIONS

**LED:** Information displays projected across the floor, pointing to key landmarks, ie information about the Melbourne Cup is directed towards Flemington Racecourse visible from the Skydeck.

**Viewfinders:** Positioned at the windows with informative text which frames a particular building, view or geographic place of interest, such as the MCG.

**Soundscape:** A specially composed soundscape designed to provide ambient sounds relevant to the direction the visitor is looking, for example F1 engine noise as the viewer looks at the Grand Prix circuit around Albert Park Lake. The soundscape noises will also 'move' around the floor, with sensors detecting where people are standing.

**Lightscape:** A unique system of 'blades' has been designed for the ceiling which can project synchronized lighting effects and move both colours and patterns around the ceiling space. The lightscape can also match the sky's appearance, ie white clouds, blue sky, lightning or thunderstorm effects. The combination of using soundscapes and lightscapes in this way at Eureka Skydeck is unique.

**Large screens:** Display two presentations: a historical streetscape of Melbourne and weather effects from a skyscraper's perspective.

**Photo sales booth:** Where visitors can buy photos of their Eureka Edge experience.

**Skydeck kiosk:** Takeaway coffee, soft drinks and snacks.

**Radio booth:** Live radio broadcast facility.

**The Skydeck Terrace:** Open to the outside elements, enclosed by a wire grid. The Terrace is positioned next to The Edge experience, so family and friends can view those inside.

**Lifts:** Two lifts exclusively service Eureka Skydeck 88. The fastest lifts in the Southern Hemisphere, they travel at over 9 metres per second. It takes just 38 seconds to travel from the ground to the 88<sup>th</sup> floor.

## **Eureka Skydeck 88 ground floor – 'Serendipity' - The Knowledge Table**

An interactive touch screen table which contains short stories about multicultural Melbourne and Victoria, which randomly move over the table. When touched, each 'fact box' opens up to reveal more detailed information and pictures, covering history sport, culture, events and architecture.

'Serendipity' - The Knowledge Table is a unique combination of technology and design, and at 6 metres long x 2 metres wide is currently believed to be the largest touch screen in the world. It took 14 months to create the Serendipity Table including building, programming and installation.

Technology and materials used: infrared camera-based touch recognition, two widescreen high-resolution projectors, real time 3D rendering software and computers.

The table's information and images are stored in a database that can be programmed for special events.

# THE EDGE AT EUREKA

## **The Edge is a World First!**

It is a huge moving glass cube carrying passengers. It works like a giant matchbox, projecting from the inside of Eureka Tower all the way outside of the building.

**The Edge was designed** by Dick Baird, Consulting Engineer and Chairperson on the Australian Standards Committee for amusement devices. Built to by G&G engineering of Melton, Victoria. The Edge has a 'switchable glass' substrate by iGlass of Ballarat, the first of it's kind in the world, with glass manufactured and laminated by Pilkingtons.



**Time taken to construct:** Six months in total.

**Materials:** Two tonnes of glass, 45mm thick, reinforced between steel framework.

**Weight:** The cube is six tonnes in total, including glass. Passengers will add a further one tonne.

**Strength:** The cube is designed to hold at least 10 tonnes but is capable of withstanding much higher loads.

**Dimensions:** Height: 2.1m inside, width: 2.6m. depth:3m of glass cube, 3 metres of "vestibule" at rear.

**Hours of operation:** 10am – 10pm.

**Operating conditions:** Extremely high winds (above 70km/h) would prevent operation. No other weather conditions should effect operation, although hailstorms and clouds may obstruct the views.

**The Edge Function:** The cube walls start off fully opaque. Once the cube is fully extended, the glass floor changes from opaque to clear instantly, followed by the other surfaces. A dramatic soundtrack accompanies this movement. Various sequences for glass effects have been programmed, so every experience can be different. Each Edge movement sequence takes approximately five minutes.

**Speed:** The Edge moves at a speed of one metre every 10 seconds.

**Capacity:** Twelve people at a time can experience The Edge.

**'The Edge Master'** : A concierge who ushers people into the cube, explains procedure, and makes sure special Edge booties are snapped onto each person's shoes to prevent scratching of the glass.

**Cameras:** Mounted inside the Edge are cameras taking photos of each group, which are then available for purchase from the Edge Photo Booth Shop.