The Walt Disney World Swan and Dolphin Hotel is another perfect example where critical and creative engineering were required in installing a safe, efficient and architecturally pleasing door into a hotel entrance. The engineering of these doors took over 4 months, not including the critical layout and custom design work.

**The Goal**

The Walt Disney World Swan and Dolphin Hotel team design a beautiful hotel. It was going to be an indulgent resting place for tired tourists and business people alike. The trouble was, the doors had many tricky specifications to meet in order to achieve the goal of the hotel; the doors had to meet the 120 M.P.H. wind load, but also be free-standing with no vertical or horizontal anchoring. The door measurements were 16’ diameter, 2-wing automatic revolving doors.

The solution was to dig a 2-foot-deep by 2-foot-wide trench in a 16’ diameter. We then installed 4’ tall vertical steel posts inside the trench and filled the trench with concrete.

**The Walt Disney World Swan and Dolphins Hotel Result**

The result was a 2-foot vertical steel posts standing out of the concrete slab, which were actually buried in 2 feet of solid concrete. We then installed the revolving doors on top of these posts. This ensured the revolving doors were securely anchored 2 feet deep into the concrete slab below.

The Walt Disney World Swan and Dolphin Hotel are now the grand entranceway into the magical world of Disney for all guests of these landmark hotels.

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