

FIRE GUARD

Grand Avenue Plaza Project

"Because the critical dimension for the floor-to-floor height is normally determined by the clearance necessary for the housing and support for the vertical steel roll-down doors, the substitution of FireGuard for these doors yields dramatic savings.

In this instance, the Grand Avenue Plaza Project will save because the floor-to-floor dimensions will be reduced by 15 inches per floor. The parking structure has four floors which provide a total reduction in subterranean excavation of five feet, along with similar savings in structural steel and concrete because of reduced height."

Morris Smith
District Manager

Cost savings using FireGuard in subterranean parking garages.



Won-Door FireGuard



Vertical rolling door

Computation of Savings

1. Compute the space saved by using Won-Door FireGuard. Savings for excavation purposes are typically computed in cubic yards.
 - Calculate the difference (in inches) in floor-to-floor dimensions when using Won-Door FireGuard rather than traditional roll-down doors.
 - Multiply by the number of floors to determine the total excavation reduction. Convert to feet by dividing by 12 (inches/foot).
 - Determine cubic yards saved by multiplying width (in feet) by length (in feet) by the excavation reduction (in feet) and then dividing by 27 (cubic feet/cubic yard).
2. Multiply the space savings (in cubic yards) by the typical cost (in dollars) to excavate a cubic yard in your locale.

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Space Saved: 15 inches/floor (22 in. - 7 in. = 15 in.) x 4 (floors) ÷ 12 inches/foot = 5 feet
Cubic Yards Saved: 300 ft. x 313 ft. x 5 ft. ÷ 27 cubic feet/cubic yard = 17,389 cubic yards

Note: This only covers the savings for excavation. Added to this would be the cost savings for the additional structural steel, concrete and outside wall structure which would have been required for the additional height had a traditional roll-down door been used.



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