

SUPERTALL LIFE & SAFETY

Evacuating Mr. Lee

Building Overview

Location *New York City*
 Building Code *NYC 2014*
 Typology *Commercial, Core and Shell*
 Structure *Structural steel frame with reinforced concrete core*
 Vertical Transportation *Traction Elevator: (36) Passenger Cars and (3) Service Cars*
 Mechanical System *Local water cooled DX system on each floor*
 Exterior Wall *Unitized Curtainwall*
 Typical floor to floor height *14'-0"*
 Number of Commercial Office Floors *59*
 Below Grade *1 Level*
 Mechanical Floors *Level 2 and 62nd Floor*
 Height *988'-0"*

SECTION BC 1005 OCCUPANT LOAD							
EGRESS CAPACITY							
STAIR/DOOR	CLEAR STAIR WIDTH	STAIR OCC FACTOR	STAIR OCC TOTAL	CLEAR DOOR WIDTH	DOOR OCC FACTOR	DOOR OCC TOTAL	CAPACITY
A	46"	0.3	153	34"	0.2	170	153
B	46"	0.3	153	34"	0.2	170	
C	46"	0.3	153	34"	0.2	170	
TOTAL 306							

(1) EVACUATION OBJECT

NAME *KEON HEE LEE*
 JOB *ARCHITECTURE INTERN*
 AGE *28*
 ETC *LATE NIGHT WORK*

(2) EXIT ACCESS TRAVEL DISTANCE

Maximum length of exit access travel: 204'-1"
 205'-10"
 Counted Egress
 Stair Pressurization Shaft

1016.1 Travel distance limitations. Exits shall be so located on each story such that the maximum length of exit access travel... shall not exceed the distance given in Table 1016.1 (B group: 300')

(3) PHOTOLUMINESCENT & EGRESS

STANDPIPE
 PRESSURIZATION
 PHOTOLUMINESCENT

(4) STAIR PRESSURIZATION

2HR RATING WALL
 SP TAP
 SP RELIEF
 STANDPIPE
 STAIR PRESSURIZATION SHAFT (SPS)

909.1.1 PRESSURIZATION. Creation and maintenance of pressure levels in zones of a building that are higher than the pressure level at the smoke source, such pressure levels being produced by positive pressures of a supply of uncontaminated air.

(5) GRADE LEVEL EVACUATION & FIRE FIGHTING

SECTION BC 1027 EXIT DISCHARGE

1027.1 General. Exits shall discharge directly to the exterior of the building. The exit discharge shall be at grade or shall provide direct access to grade. The exit discharge shall not reenter a building.

FIRE DEPT. CONNECTION
 33RD STREET
 9TH AVENUE
 PRESSURIZATION SYSTEM
 EMERGENCY GENERATOR
 FIRE FIGHTING
 EGRESS

