



Elevators

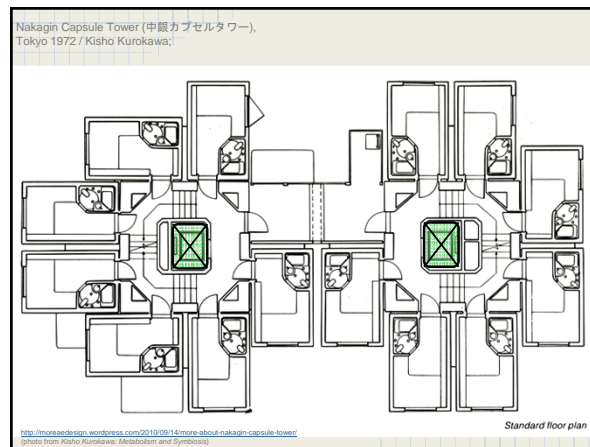
We want to create a door component which will describe the elevator in plan on each floor, while showing only one elevator cab in section or 3D.

Step required:

- Understand requirements of elevator manufacturer to place elevator.
- Download 3D elevator component & elevator door component from SEEK.
- Alter 3D elevator component to meet manufacturers specified dimensions.
- Copy 2D linework from plan of 3D elevator family into plan of elevator door Family.
- Place door component in plans, on each floor as needed.
- Alter shaft openings as necessary.
- (optional) Place 3D component on ground floor in same place as door, hide in plan view.

A) Research the dimensions, model, and manufacturer of a commercial elevator that would fit into your shafts; such as from Otis, Shindler or Thyssenkrup.

Typically selecting elevator and shafts sizes is a back-and-forth process between the architect and that engineer.



OTIS The world's leading manufacturer of elevators, escalators and driving walkways.

U.S.A. One possible leading commercial elevator manufacturer

GEN2 Machine Roomless Guided Elevator

Speed Range: 30-500
Maximum Stop: 30
Maximum Travel: 300'

1. We can use the Otis Machine room less electric elevator (Gen2 MRL). We can find additional information in the Brochure

<http://www.otis.com/site/us/Pages/Gen2Elevator.aspx>

Passenger

Dimensions	2100 mm (82")	2000 mm (78")
Rated Use, Passenger Capacity	13	15
Cab ¹		
A Interior width	5'-8 1/2" (1740mm)	5'-8 1/2" (1740mm)
B Interior depth	4'-3 1/2" (1320mm)	4'-3 1/2" (1320mm)
C Cab depth ²	4'-4 1/2" (1340mm)	4'-4 1/2" (1340mm)
D Car door width	7'-0" (2130mm)	7'-0" (2130mm)
E Door type	55"	55"
F Entrance height	7'-0" (2130mm)	7'-0" (2130mm)
Hoistway		
G Single width	7'-7" (2310mm)	8'-4" (2540mm)
H in basic zones	7'-0" (2130mm)	8'-4" (2540mm)
I Double width	15'-8" (4770mm)	17'-0" (5180mm)
J in basic zones	15'-0" (4570mm)	17'-0" (5180mm)
K Single width	22'-5" (6840mm)	25'-8" (7850mm)
L in basic zones	22'-11" (6940mm)	25'-2" (7670mm)
M Depth	8'-0" (2430mm)	8'-4" (2540mm)
N for front and rear openings	6'-3 1/2" (1930mm)	6'-11 1/2" (2080mm)
O Clear overhead to hoist beams ³	7'-0" Cab height	7'-5 1/2" Cab height
P 100 mm (4") min. clearance	12"	12"
Q 100 mm (4") min. clearance	12"	12"
R Min gap depth ⁴	100 mm (4") min. clearance	100 mm (4") min. clearance

These diagrams and charts provide from the brochure provide a key to sizing and selecting your elevator



<http://www.schindler.com/uk/internet/en/home.html>

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 Schindler 3300
 Schindler 5300
 Schindler 7000

Escalators
 Schindler 6300AE
 Schindler 9700AE

Moving Walks
 Schindler 9500AE

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26.09.2012 Schindler supplies new 49ers stadium
 13.09.2012 Schindler to build new escalator plant in India
 16.08.2012 Schindler licenses to KONE its RFID card reader patents

Prepared by Alexander Apteker ED, Barbara Mishara © 2012

This elevator outperforms hydraulic systems
 The Schindler 3100 traction elevator is an ideal alternative to hydraulic systems, because it uses less energy and emits no pollutants.

Conspicuously quiet
 Due to the load carrying elements, the Schindler 3100 requires very quiet. An advantage that benefits the entire building.

Offering more space
 The car of the Schindler 3100 offers plenty of space. With our load carrying elements, standardised shafts are able to hold cars that are up to 25 cm wider and accommodate one or two additional passengers in conventional shafts.

The elevator pays off
 The Schindler 3100 is environmentally friendly and economical in the use of resources, which contributes to lower operating expenses. Superior standards. Automatic evacuation is a standard feature of our elevator systems. Even in the event of a power failure, the Schindler 3100 will take you safely to the next floor.

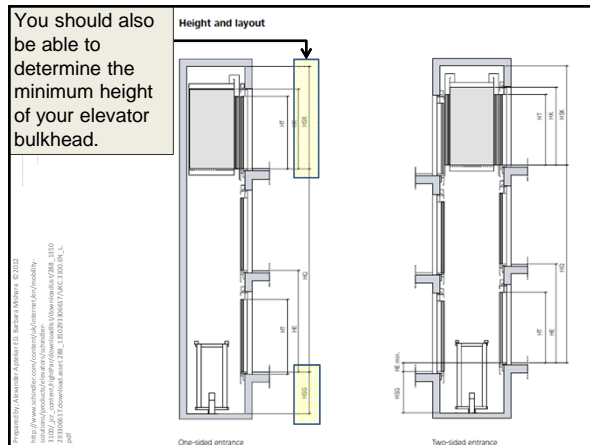
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Brochure's
 3100 Colour Samples (118 kB)
 3100 (266 kB)

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Machine room-less traction elevator with frequency-controlled drive
 450/480 kg, 630 kg capacity, 6, 8 passengers

Capacity	Passengers	Speed	Travel height	Number of stops	Available entrance			Door			Shaft									
					BK	TK	HK	Type	BT	HT	BS	*TS	**TS	HSG	HSK					
450	6	0.63	20	5	2	1000	1250	2135	T2	800	2000/2100	1500	1600	1800	1100	3400				
						1.0	20	5	2	1000	1250	2135	T2	800	2000/2100	1500	1600	1800	1100	3400
						1.0	20	5	2	1000	1300	2135	T2	800	2000/2100	1500	1650	1850	1100	3400
480	6	0.63	20	5	2	1000	1300	2135	T2	800	2000/2100	1500	1600	1800	1100	3400				
						1.0	20	5	2	1000	1300	2135	T2	800	2000/2100	1500	1650	1850	1100	3400
						1.0	20	5	2	1100	1400	2135	T2	800	2000/2100	1600	1750	1950	1100	3400
630	8	0.63	20	5	2	1100	1400	2135	T2	800	2000/2100	1600	1750	1950	1100	3400				
						1.0	20	5	2	1100	1400	2135	T2	800	2000/2100	1600	1750	1950	1100	3400

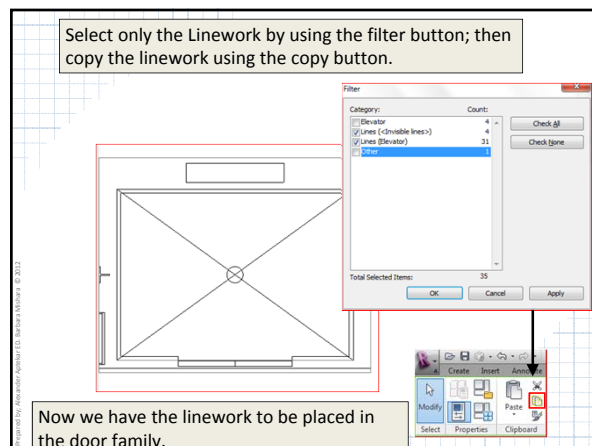
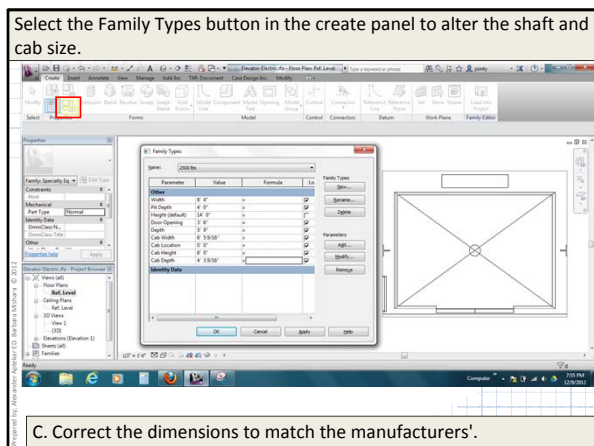
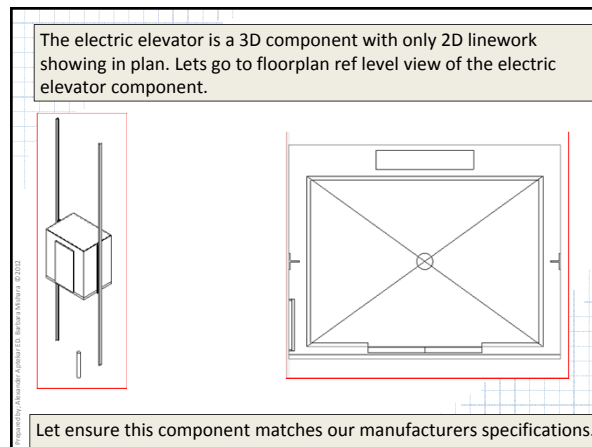
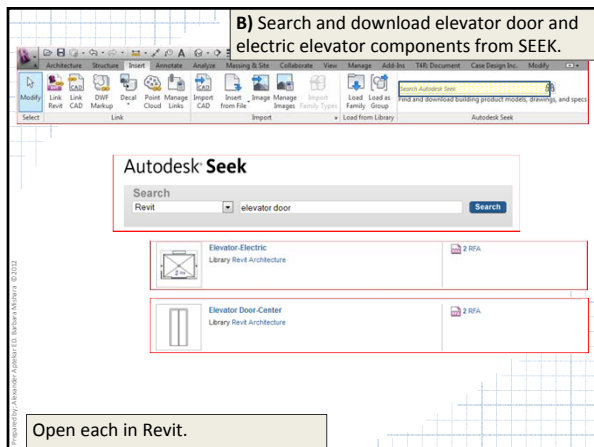
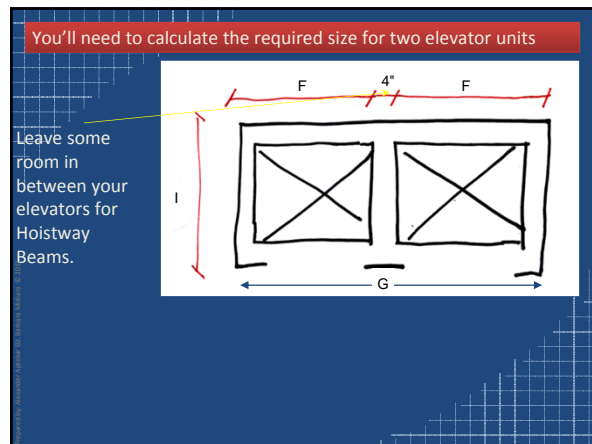
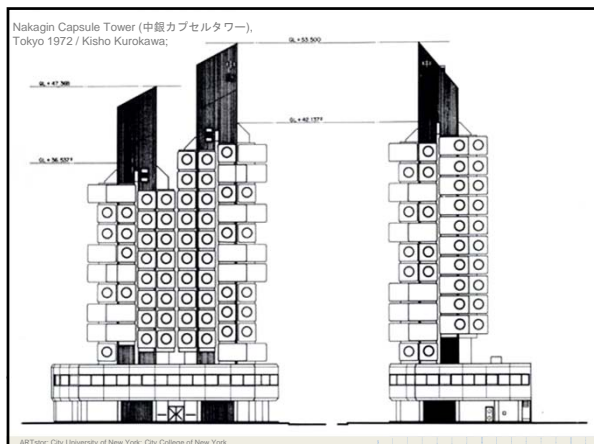
Legend:
 GQ Capacity
 VKN Speed
 HQ Travel height
 ZE Number of stops
 HE Interfloor distance
 BK Car width
 TK Car depth
 HK Car height
 T2 Telescopic door, 2-part
 BT Door width
 HT Door height
 BS Shaft width
 *TS Shaft depth
 **TS Shaft depth
 HSG Pit depth
 HSK Headroom height

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One-sided entrance, telescopic door Two-sided entrance, telescopic door

Capacity	Passengers	Speed	Travel height	Number of stops	Available entrance			Door			Shaft									
					BK	TK	HK	Type	BT	HT	BS	*TS	**TS	HSG	HSK					
450	6	0.63	20	5	2	1000	1250	2135	T2	800	2000/2100	1500	1600	1800	1100	3400				
						1.0	20	5	2	1000	1250	2135	T2	800	2000/2100	1500	1600	1800	1100	3400
						1.0	20	5	2	1000	1300	2135	T2	800	2000/2100	1500	1650	1850	1100	3400
480	6	0.63	20	5	2	1000	1300	2135	T2	800	2000/2100	1500	1600	1800	1100	3400				
						1.0	20	5	2	1000	1300	2135	T2	800	2000/2100	1500	1650	1850	1100	3400
						1.0	20	5	2	1100	1400	2135	T2	800	2000/2100	1600	1750	1950	1100	3400
630	8	0.63	20	5	2	1100	1400	2135	T2	800	2000/2100	1600	1750	1950	1100	3400				
						1.0	20	5	2	1100	1400	2135	T2	800	2000/2100	1600	1750	1950	1100	3400

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D. Paste the linework in to the door family floor plan ref. level view.

1. Group linework using the group button.
2. use align to center group with door and align outer boundary to wall face
3. Once done, we can start to place the component into our plan. click load into project; load into our building project file.

E. Place elevator component in plan within a wall as needed; copy aligned to desired levels.

1. Place component using the component button on the home tab.
2. Copy and paste to selected levels.

F. Alter / create shaft outline shaft; take consideration of where floor is not needed, such as between shafts.

Nakagin Capsule Tower (中銀カプセルタワー), Tokyo 1972 / Kisho Kurokawa;

4

It was intended for the capsules to be replaced. However, the tower still carries marks of global impact for the world's capsule towers.

Due to the tower design only the top capsules can be removed. To ensure a more capsule-oriented atmosphere, the building has no external facade.

Demolition was approved in 2011, as the building has no external facade and the tower still carries marks of global impact for the world's capsule towers.

Nakagin Capsule Tower, Tokyo

Cell Life

Asbestos

Earthquake Protection

General waste

Has arranged for the residents waiting for the building to be replaced.

Supporting the individual

Stuck like bricks in a crumbling wall

The future of the capsule tower is uncertain, a central question asks: "The building has no external facade and the tower still carries marks of global impact for the world's capsule towers."

Kurashige is at fault here by not wanting the capsules to be individually replaced. All capsules are connected to the main structure, so they cannot be removed one by one. "Where does one trade in for a new capsule?"

By: @WalterStorke <http://starchitect.blogspot.com/2009/08/nakagin-capsule-tower-tokyo-1972.html>

