



An intermediate entry in a multi entry chute.

With the buildings in recent times becoming taller and taller, Fire Safety, Disaster Management and Building Evacuation are issues which are more important than ever before. Most of the new sky-scrapers coming up have been designed with the latest fire detection and fire fighting systems.

How ever, it is perhaps even more important to have an efficient Evacuation System in place to get all the occupants out of the building and out of harms way incase the situation escalates beyond control. This is a matter which has to be addressed very seriously and the occupants and Property Managers of such tall buildings must also be made aware of the evacuation systems and the procedures for evacuating the building and getting everyone away from the danger.

PROBLEMS FACED DURING EVACUATION

The problems of handling an emergency situation and evacuating a building get magnified many fold as the building gets taller and taller.

Incase of a fire, the power supply is disconnected immediately, thus not allowing the elevators to be used. This therefore necessitates the use of the staircases. The problems associated with this are as follows

- Elderly and physically challenged occupants would find it difficult to climb down 30-40 storeys and also take them a long time. Their pace would be slow, causing others behind them to push against them. This might cause them to lose balance and fall, further causing them possibly serious injuries.
- Incase of people with small children, the kids would have to be carried and coming down from such great heights would definitely be tiring and dangerous.
- The staircases could get blocked by fire or smoke causing panic and stampedes on the staircase which could endanger the lives of the evacuees.
- The use of the staircases by the occupants would block or delay the Fire Brigade personnel from reaching the fire, thus causing the fire to escalate.
- The fire engines might not be able to reach the building incase the building does not have proper access.
- Presently the ladders and platforms of the fire brigade can go up to a maximum height of 10 – 15 floors. So, in case of high rise buildings, there is a good chance that the ladder might not reach the floor from which the occupants have to be evacuated.

SO WHAT'S THE SOLUTION ?

An Emergency Evacuation System which solves all the above problems and also provides additional useful features is the "Ingstrom Fire Escape Chute". This is a patented product manufactured by Mobiltex Evacuation Systems, a Swedish company who are leaders in this field for the past 25 years. There are more than 5000 installations of the Ingstrom Chute around the world.



A person entering an intermediate Entry in a multi entry chute

The Ingstrom Escape Chute is a means of emergency exit that permits rapid, mass evacuation from high-rise structures during life threatening emergencies. It is uniquely designed to provide a relatively safe and quick method of vertical escape and it is always accessible and ready for use. It provides a unique solution to the problems of vertical

escape in difficult conditions during emergency evacuation. It is possible to enter this chute from every floor thus making access to the chute extremely easy and fast incase of emergencies.

The Ingstrom Chute is manufactured from 3 layers of special, patented fabrics developed by Mobiltex. Mobiltex make use of advanced materials such as Kevlar (a bullet proof material having 10 times the tensile strength of steel), Twaron, Spandex, Modacryl and E-Glass Fibre to provide a chute that is extremely strong (can support upto 7-8 tonnes), fire resistant (upto 800°C) and elastic so as to allow the evacuees to control their speed of descent. All material used in the chute are EU (European Union) approved and of the highest quality in the world.

The Ingstrom Escape Chute can evacuate people at a rate of 30 persons per minute. The evacuee can controls his or her speed of descent and the average descent time from a 50 storey building will be as low as 90 - 100 seconds. THIS SYSTEM REALLY DOES SAVES LIVES.

Some of the advantages of the Ingstrom Chute are as given below.

- Access to chute available from every floor
- Rapid Evacuation Rate : 30 persons per minute. This means a building having as many as 100 flats can be evacuated in as little time as 15-20 minutes. No other system is so fast and efficient.
- Fast descent possible : 50 Storeys in approx. 100 sec. Thus evacuees are taken away from danger very rapidly.
- No power source required
- Protects evacuees from fire effects
- Requires much less floor space than a conventional staircase
- Always available in emergencies and extremely easy to use
- Keeps staircases free for use by fire-fighting personnel
- Requires very little physical exertion in using the device to descend
- Users have the ability to control the speed of their own descent
- Suitable for people of all ages and physical conditions, including physically impaired people, persons carrying babies & even unconscious persons.
- There is practically no limit on the number of floors for which the Multi Entry chute can be installed. Thus very High Rise buildings having even more than 100 floors can also have this system installed in them.

□ The single Entry version of the Ingstrom Chute can also be used in shorter, existing buildings where the chute can be mounted on the terrace for use in emergencies.

METHODS OF USING THE INGSTROM CHUTE

It is extremely easy to use the Ingstrom Chute and it requires practically no training to learn how to use one. As shown below, the evacuee after entering the chute, controls his speed of descent simply by

pressing against the sides of the chute with either his knees or his hands. The harder he presses, the slower he will go and the less he presses, the faster he will go. Also, as shown, a person at the bottom of the chute will help the evacuees to exit the chute.

INGSTROM ESCAPE CHUTES IN INDIA

Mobiltex Escape Systems, Sweden, the manufacturers of the Ingstrom Escape chute, are represented in India by Linear Technologies, an engineering company based in Mumbai.

Multi Entry Ingstrom Chutes are being used in India for the first time by Godrej Properties Ltd. in their project, "Planet Godrej" consisting of 5 Towers of 48 storeys each and situated at Mahalaxmi in Mumbai.

These chutes have also been incorporated by Architect Raja Aederi, one of India's leading Architects, into many of his forth coming high rise projects.

It is only a matter of time before many others will also see what Godrej Properties Ltd. and Mr. Aederi have already seen – The sheer life saving potential of the Ingstrom Chute in a High Rise Emergency.



The top-most entry in a multi entry chute.

We Save Lives!!

Escaping from Danger has never been this easy

Do you sometimes wonder...
In case of a fire in my building...

- What if the Fire Brigade does not come in time?
- How will my elderly parents climb down 30 floors?
- What if the staircase is blocked and full of smoke and there is a stampede?
- What if the Fire Ladder does not reach my floor?
- How will I climb down with my young children?

We have the answer to
all these questions

Install our chute and all you have to do is jump into it and reach the ground safely, easily and quickly regardless of your age and fitness level.

Are you safe
without an escape chute?

Fire Escape Chutes from Mobiltex, Sweden

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