



UYEDA ESCAPE CHUTE
CONSTRUCTION CO.,LTD.

Manufacturers of the "FIRE ESCAPE CHUTE"

SUPER ACE S-1



**FIRE ESCAPE CHUTE FOR
VERTICAL DESCENT**

STRUCTURE

CHARACTERISTICS

OPERATION

For handling the escape chute at the time of fire, remove the cabinet which contains the chute, open the window and let the capsule (with a protection cushion) at the end of the chute descend down gradually onto the ground.

When the capsule of the chute touches the ground and the chute body hangs down in the correct way, push the metal frame upward and extend the frame out of the window.

The average time required for the above operation depends on the height of the building but it is about 1 minute or so.

DESCENT & SAFETY

As soon as the escape chute is completely installed for use, check the state of the hanging chute from another window nearby and start descent in the chute.

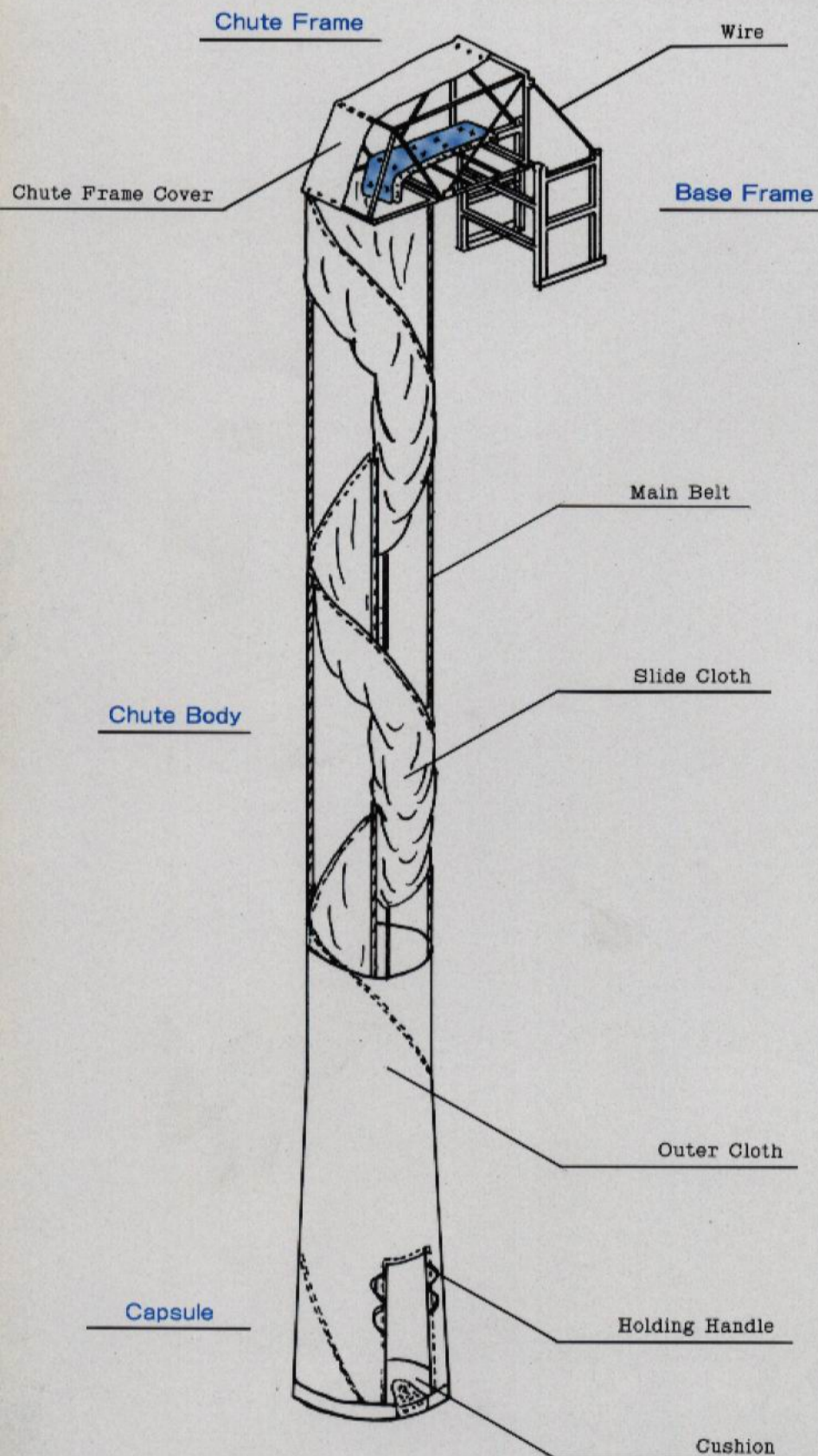
The chute is made in spiral form in the left turn direction, so try to descend in it turning the body in the left direction.

The speed of descent is about 2 meters or less per second and the speed never exceeds the above limit.

Therefore, no shock is felt during the descent in the chute or at the time when reaching the protecting cushion in the capsule at the bottom of the chute.

This means that the chute assures the highest degree of safety and no danger at all.

The protecting cushion of the capsule touches the ground, which means the escaping person lands directly on the ground.



Even when many people descend in the chute in succession, there will be no clogging within the chute (in our experiment 34 persons descended smoothly one after the other in 1 minute). Smooth and non-clogging descent is possible. Even if clogging should occur there is no worry at all about the strength of the chute which can withstand a load upto 7.200kg (15,870 lbs).

CHUTE WEIGHT

The weight of the chute is 1.4 kg per 1 meter (15 ounce per 1 foot).

STRENGTH

All the parts and components such as the installation bolts anchored on the building floor, installation or fitting metal parts, chute hardware, chute main body and the joints are designed and made to withstand a sufficient load and do not deform up to the force of 1.000kg (2,200 lbs).

Therefore, the escape chute is strong enough for escaping persons in succession one after the other.

FLAME RESISTANCE

There are some good flame resisting fabrics such as glassfiber cloth, carbon fiber cloth etc. However these fabrics do not have sufficient capacity for wear, abrasion, bending friction and so they are not suitable for our chute cloth.

There are some fabrics which have some flame resisting capacity but their prices are about ten times or so as compared with those of ordinary fabrics, which prevent us from using them for our chute.

We, therefore, use polyester cloth treated to give flame resisting capacity for our outer chute cloth. This cloth is flame resisting, is sufficiently strong and the price is reasonable.

DURABILITY

We make our escape chutes using the materials of the highest degree of durability selected out of various materials so that our chutes are excellent in durability, weather resistance etc.

SPECIFICATIONS

NAME SUPER ACE S-1
FORM Vertical Descent Type

	Where used	Name	Size & Standards
Base Frame Hardware Main Materials	Main Frame	Square Pipe	40×40×2t or 50×50×2.3t (JIS G3466)
Chute Frame Hardware Main Materials	Main Frame	Steel Bar	19 mm φ (JIS G3101)
	Entrance Frame Rotary Shaft	Pipe	34 φ × 3.4t (JIS G3454)
Chute Main Body Main Materials	Slide Cloth	Polyester	Tensile Strength 150×160 kg Tear Strength 19×19 kg
	Outer Fabric	Polyester (Flame resistance)	Tensile Strength 150×160 kg Tear Strength 19×19kg
	Main Belt	Polyester	35×2t 2,460 kg × 5 = 12,300 kg

HOW TO OPERATE



Remove the cabinet cover.



Enter feet first.



Lower the chute.



Bend the knees as far as possible and descend with the hip first.



Set up the entrance frame.



Landing on the ground is shock-free.

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