

# AMES-2

Advanced Modular Evacuation System

## It Could Happen at Any Time

A fire has broken out on the 12th floor of a 25 story office building.

The alarm sounds and the automated sprinkler system has been activated, but the flames are spreading quickly. Smoke fills the hallways and begins to seep into the stairwells.

As emergency rescue personnel begin to arrive on the scene, there are still hundreds of people trapped among the top floors waiting to be evacuated to safety. Time is of the essence...

## A New Solution

This is the nightmare for residents of all high buildings around the world.

While emergency and safety technology has improved greatly in recent years, there is still a clear need for innovative solutions to the challenge of providing a safe, fast and reliable method that could help the fire and rescue units getting people out of the top floors of buildings in the event of fire, earthquake, terrorist attack or other emergency situations and saving their lives.

Now a revolutionary new product offers the promise of a better future in urban safety, allowing an improved way to rescue people and save lives: the AMES-2.

The Mobile Evacuation System, the second system in the company's product line, addresses the Company's primary objective – to develop products that allow the safe, reliable and speedy evacuation of people from any multistory structure.

## What is AMES-2 and how does it work?

AMES-2 is a breakthrough in emergency management that is based on a simple idea: the best way to rescue people is to give them a safe and fast direct route out of danger.

The system, delivered by a mobile aerial platform to a multistory structure, is a technologically advanced fire-resistant escape chute system that offers an unparalleled means of egress from any multistory structure and can be deployed in a matter of minutes, allowing the safe, reliable and speedy evacuation of people.

### The system contains 3 subsystems:

- Main Aluminium structure.
- Chute system.
- Top and Ground anchoring systems.

The escape modular chute system is an eighty centimeter diameter sleeve made of specially developed fire-resistant material with a water repellent finish. The sleeve is threaded by a metal spring that holds it in its open position. The bottom of the sleeve is built in a cradle form for safe and comfortable absorption of the evacuees.

Within minutes of arriving at an emergency site, the system is extended upwards and anchored to the chosen floor level from the inside by the firefighter, and then anchored to the ground level after the chute has been deployed.

The host trailer is used also as the ground anchoring point. Each vehicle can carry one or more systems to the site.

The acceleration during the descent is rapid and runs approximately between 7 to 9 meters per second. The system allows evacuation of at least 15 people per minute. The deceleration created by this design allows for a fast, safe and controlled descent, requiring no efforts by its user to slow down. This is essential for any safe evacuation of children, senior citizens and disabled persons.

Once the system has been anchored to the building, the aerial platform can be separated and used to for lifting another chute system to a different location while the evacuees keep sliding down the chute and escaping peril.

## What are the advantages of AMES-2?

The AMES-2 system offers a safe and easy-to-use solution that incorporates advanced innovative design and technology – introducing a new paradigm in evacuation techniques.

### Benefits over existing rescue and evacuation systems include:

- Allow fast mass evacuation.
- Modularity- the system can be fitted to any type of large structure and to the different heights required. The system could be fitted to all aerial platform types.
- Multiple evacuation means- it is possible to install multiple systems with one aerial platform, giving rescue personnel the option of operating several systems simultaneously and also use the aerial platform for another task.
- Protects evacuee from fire, smoke and heat.
- No physical action required for sliding down the chute. Suitable for the injured, handicapped, elderly and unconscious.
- Evacuees slide freely down the chute and are not attached by straps.
- No need for trained personnel.
- Affordability- offers a real affordable by product to the aerial platforms vehicle.
- Allows automatic and remote operation, as well as audio and video communications between rescue teams and evacuees.

## Who are we?

Bringing pioneer solutions to the fire and rescue industry, AES Advanced Evacuation System (Israel) Ltd, has developed a revolutionary escape chute that answers the ever-growing need for safe and reliable evacuation systems.

Installed in or delivered by a mobile rescue unit to a multistory structure, the worldwide patent-pending Advanced Evacuation System is a technologically advanced escape chute system that offers an unparalleled means of egress from any high-rise structure and can be deployed in a matter of minutes. Developed in AES's R&D facilities in Israel, the Advanced Evacuation System has stirred the interest of governments, fire departments and civil emergency units from around the world.

An engineering prototype of the systems has been developed and is fully operational.

