



**RESGUARDO**<sup>TM</sup>

**DON'T LEAVE ANYONE BEHIND**



# LIFE SAFETY IN HIGH RISE BUILDINGS



There are no limits to human imagination & aspirations and this is exemplified in the way modern buildings are challenging each other in scaling new heights today.

But with great thrills, comes great risk too!! The very thought of a fire in such high rise buildings, be it a hospital/hotel/apartment complex or an office building with thousands of people occupying it is a nightmare in itself.

The height of a building poses the biggest challenge to life safety engineers who have to come up with safer, faster & more effective solutions that can save people trapped in such an emergency situation. Time is of the essence in such situations and how quickly & safely you can evacuate fellow human beings to a safe assembly point on the ground level is what actually counts!

We have pooled all our best resources and have come up with innovative safety solutions such as Evacuation Chairs customized (for hospitals, high rise buildings or apartments), Lifiable Wheelchairs, Foldable Stretchers, Escape Smoke Hood, Fire Snipers, Portable First Aid Kits, Bump Caps, ERT -FR Vest, Automatic External defibrillator, Self Contained Breathing Apparatus, Fire Suit etc.

We are indeed blessed to work on such life-saving products which are sure to make living in high rise buildings a little more safer for all mankind.

# E VACUATION CHAIR

PREMIUM



Evacuating differently abled or pregnant women from high-rise buildings to safety, in case of any emergency such as fire, bomb threat, earthquake etc., is the biggest challenge as the lifts are generally grounded in such scenarios. During a fire the critical time for evacuating the personnel at floor level is 2.5 minutes since fire and smoke can engulf the entire floor. The Evacuation chair is a comfortable chair that moves effortlessly on wheels over flat surfaces and simply glides down the staircase. The Evacuation / Rescue chair is a single operator model that can be easily operated by just one person.

## KEY FEATURES

- Powder coated aluminium frame body, 32 mm diameter (3mm in thickness).
- Smooth rubber wheels with brakes that can be rotated through 360 °
- Smooth metal gliders with a thick canvas rubber belt.
- Uniquely designed footrest, with open and close features.
- Soft & comfortable seat with high density cushioning.
- Built to withstand a load of 180kgs
- Total weight of the evacuation chair is 17kgs
- Foldable & provides convenience of storage.
- CE approved : EN ISO 13485:2012

Watch a live demo at



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# E VACUATION CHAIR

REGULAR

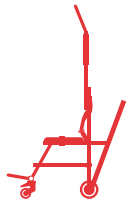


Evacuating differently abled, elderly people or pregnant women from apartments to safety, in case of any emergency such as fire, bomb threat, earthquake etc., is the biggest challenge as the lifts are generally grounded in such scenarios.

During a fire the critical time for evacuating the people at floor level is 2.5 minutes since fire and smoke can engulf the entire floor. The Evacuation chair is a comfortable chair that moves effortlessly on wheels over flat surfaces and simply glides down the staircase. The Evacuation / Rescue chair is a single operator model that can be easily operated by just one person.

## KEY FEATURES

- Powder coated aluminium frame body, 25 mm diameter (3mm in thickness).
- The chair weighs 13.5kgs
- Smooth rubber wheels that can be rotated through 360 °.
- Smooth metal gliders with a thick canvas rubber belt.
- Soft & comfortable seat with high density cushioning.
- Built to with stand a load of up to 150kgs.
- Foldable & provides convenience of storage.
- CE approved : EN ISO 13485:2012



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# LIFTABLE WHEEL CHAIR

This is a regular wheel chair with a lifting option. It requires two assistants or operators to handle it. It has a Telescopic handle in the front & a foldable handle in the back which enables the operators to lift the chair easily. This is very useful to shift immobile people from the basement floors to higher floors through the staircase. It is also very useful in situations where the wheel chair cannot move or in areas where there are no ramps.



## KEY FEATURES

- Powder coated aluminium frame body, 25mm diameter (3mm in thickness).
- Soft & comfortable seat with high density cushioning
- Four wheels
- Foldable back handle
- Telescopic front handles
- Built to withstand a load of 110kgs
- Total weight of chair is 11.7kgs



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## FOLDABLE STRETCHER



- The Foldable stretcher is small and portable.
- It is made of Aluminum Tubular construction.
- It also comes with a convenient bag to carry the stretcher.
- At 6 Kgs it is lightweight and 110 cms in length when closed.
- CE approved : EN ISO 13485:2012

### DIMENSIONS

Open - 220 x 55 x 15 cm  
Closed - 110 x 18 x 13 cm  
Weight - 6 Kgs  
Load - 150Kgs

## STRETCHER WITH O<sub>2</sub> KIT

Most people work in offices located in high rise buildings today. However many of the lifts in these buildings cannot accommodate a stretcher in case of high-rise medical evacuations. Therefore, it is critical that the casualty must be administered oxygen while being moved quickly and securely to the ground floor or to the hospital.

Our product can facilitate easy evacuation as it can be fitted with an O<sub>2</sub> Kit which can provide oxygen supply on the move. In tricky evacuations involving stairs, there is a risk of the patient slipping downwards from the stretcher and further injuring themselves. To avoid such accidents, we have added a foot pouch which prevents such accidents from occurring.

We believe that ease of operation can help save lives, so we have designed our stretcher keeping this firmly in mind.

### Features

- Flexible holder pouch to place the RESGUARDO oxygen kit securely.
- Foot Pouch to hold and lock the feet of the victim.



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# O<sub>2</sub> KIT

## Oxygen: The difference between life and disaster

Accidents can happen anytime, anyplace and in many cases, time can mean the difference between life and death. Any medical emergency, even minor ones can cause hypoxia or insufficient oxygen supply to the tissues which can cause pain, discomfort and possibly even death. Therefore, it is important to have effective medical aids in place, while waiting for the ambulance to arrive.

Our O<sub>2</sub> Kits are versatile and designed to provide your staff with protection in the case of any medical emergencies, from fainting to cardiac arrest. They provide supplementary oxygen supply while also reducing pain and discomfort..

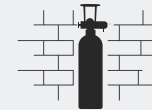
### TECHNICAL SPECIFICATIONS:

- Cylinder - Aluminium (BS EN ISO : 7866 : 2012) PESO Approved
- PIN Index Valve - Brass (IS 3745 : 2006) PESO Approved
- Capacity - 2.2 LTR, 300 LTRS of oxygen
- Settings - Normal and High
  - Normal - 6LPhM - 50 minutes
  - High - 12LPM - 25 minutes
- Cylinder life - 15 years
- Cylinder to be refilled immediately after every use or every 3 years if unused.
- CE approved : 93/42/EC

### USP:



Portable & light in weight



Can be wall mounted



The O<sub>2</sub> kit can be used continuously for 50 minutes



Face mask with resuscitation provision



Easy to operate using simple on-off mechanism

**RESGUARDO™**



O<sub>2</sub>KIT

# ESCAPE SMOKE HOOD



The Escape Smoke Hood is a Personal Protective Equipment which gives respiratory, head and eye protection against smoke and toxic gases. In fire accidents, it is not fire but smoke which causes severe loss of life. In particular, in modern buildings and industrial fires, the smoke contains toxic gases such as CO (Carbon Monoxide), HCN (Hydrogen Cyanide), HCL (Hydrogen Chloride), C H O (Acrolein) etc. These toxic gases are deadly in nature and can cause: blistering, tissue death and infection, convulsions, nausea, shortness of breath, even death in minutes.

In every building there is a vulnerable group of people like OT Doctors, staff nurses, lab scientists, server rack operators, ERT members, process engineers, complex machine operators who need a little extra time to evacuate the building as they have to follow certain shut down procedures.

The Emergency Mask has a filtering mechanism which can filter toxic gases for a few minutes, and can give a person trapped in a fire accident, precious time of up to 15 minutes to escape safely from the building. Hence it is a must for all office buildings, hospitals, industries, hotels, high rise buildings, shopping malls, schools, colleges etc. Our escape smoke hood is CE approved, as per EN 403-2004 approval .

## KEY FEATURES

- The hood is made from flame retardant material.
- The stainless steel canister with mechanical & chemical filters can filter carbon monoxide (CO) and other toxic gases.
- The half mask fits the user's face securely.
- One way breathing valve is made of ABS plastic which prevents inhaling of toxic gases and is used only to exhale out.



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# E MERGENCY ESCAPE BREATHING DEVICE (EEBD)



Emergency Escape Breathing Device (EEBD) is a Self Contained Compressed Air apparatus which is a life saving and life supporting device. It is designed to facilitate rescue in hazardous conditions such as fire, smoke, poisonous gases and unsafe industrial and marine environments. It is an extremely effective life saving device, has a large visor area, and is simple to use. It can be quickly operated as it is specially constructed such that the EEBD device provides an airflow as soon as the bag is opened. Two variations of the EEBD device of different capacities and duration are also available.

## KEY FEATURES

- The hood is fabricated from aluminized coated fabric which is heat and water resistant fabric. It has a large visor area providing excellent vision and it also has an elastomeric neck seal.
- The EEBD device is simple to use and can be quickly operated. It has a uniquely designed bag, which is especially constructed such that the device immediately starts operating as soon as you open the bag. This bag can be comfortably worn around the neck or carried across the shoulders.
- EEBD device provides an air flow of 40 LPM when automatically operated.
- EEBD device versions are also available in different capacities with options of 10 or 15 minutes of airflow duration.

## PRODUCT SPECIFICATIONS

- EEBD 10 Min Duration [5.2 kg approx.]
- EEBD 15 Min Duration [6.1 kg approx.]
- Cylinder : PESO approved BS EN 15070:2012.
- Valve : PESO approved IS 7302:1974 EN 144-1 EN ISO 10297:2014
- CE approved : EN 1146:2005

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## BUMP CAP



Bump Caps are appropriate for work situations which do not require ANSI compliant head protection, but it is still desirable to have adequate head protection in overhanging areas. Bump Caps reduce exposure to lacerations and abrasions caused by minor injuries to the head.

### Features

- Inner Shell - Polypropylene
- Outer Cap - 100% Cotton
- Perforated sides facilitate cross ventilation for better air circulation.
- CE approved : BS EN 812:2012



## ERT VEST



The FR ERT vest is made of fire resistant material designed to resist burning & withstand heat as well. This vest is most appropriate for ERT members who are expected to fight small fires in office building or industries. This is much better than the regular polyester vests which has a tendency to catch fire easily and is highly unsafe.

The ERT vest can be used by:

- ERT Members
- First Responders
- Floor wardens
- EMT Members



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# ERT KIT

ERT/CRT/Floor wardens generally equipped with an ERT kit with essentials to perform their roles and responsibilities effectively. The kit contains their ERT caps & vests, a whistle, a pen torch, a first-aid kit, CPR mask and most importantly an escape smoke hood. If an ERT member gets delayed while evacuating other occupants of the floor and they encounter smoke, they can use the escape smoke hood for self-protection to escape to safety.



# FIRST AID



## KEY FEATURES

- ABS plastic body - light weight
- Transparent cover - Visible Contents
- Different colors - Can match the interiors
- Portable - Can be taken to the location of a medical emergency
- Portable & Handy
- Easy to Clip off
- Wall Mounted- Visible from far

## KEY CONTENTS

- Sterile Dressing (7.5cm x 7.5 cm) - 4 Nos.
- Sterile Dressing (12 cm x 12 cm) - 2 Nos.
- Wooden Splint - 1 No.
- Triangular Bandage (91cm x 91cm x 136 cm) - 1 No.
- Sterile Gauze Swab ( 10 cm x 10 cm , 8 ply) - 2 Nos.
- Sterile Gauze Swab ( 5 cm x 5 cm , 8 ply) - 2 Nos.
- Surgical Latex Gloves (Powder Free) - 1 No.
- Breather Mask - 1 No.
- Pain Balm (10gm) - 1 No.
- Antiseptic Ointment - 1 No.
- Cotton Crepe Bandage - 1 No.
- Surgical Tape-Adhesive Bandage - 1 No.
- Savlon (50ml) - 1 No.
- Cotton Wool - 1 No.
- Rolled Open Woven Gauze Bandage - 1 No. etc.
- CE approved : EN ISO 13485:2012

\*Contents may vary

\*Contents can be customised



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# E VACUATION CHAIR

## HOSPITAL MODEL

Evacuating bedridden patients, differently abled or pregnant women from hospitals to safety in case of any emergency such as fire, bomb threat, earthquake etc. is a huge challenge as the lifts are generally grounded in such scenarios. During a fire the critical time for evacuating people at the floor level is 2.5 minutes, since fire and smoke can engulf the entire floor in minutes. Evacuation chair is a comfortable chair that moves effortlessly on wheels over flat surfaces and simply glides down the staircase. The Evacuation / Rescue chair is a single operator model that can be easily operated by just one person.



### KEY FEATURES

- Powder coated aluminium frame body, 32 mm diameter (3mm in thick-ness)
- Smooth rubber wheels with brakes that can be rotated through 360°
- Smooth metal gliders with a thick canvas rubber belt
- Soft & comfortable seat with high density cushioning
- Build to withstand a load of 180kgs
- Total weight of the evacuation chair is 20.2kgs
- I.V. holder to hang I.V. liquid bottles
- Arm rest handle made of Polyurethane
- Pouch in the backside to keep documents related to the patient
- Foldable & provides convenience of storage
- Bracket at the back for holding an O2 Kit
- CE approved : EN ISO 13485:2012



# E VACUATION MAT



During emergencies the simplest way to evacuate bedridden, unconscious or immobile patients through the staircase is by using the evacuation mat. The evacuation mat will be permanently placed beneath the hospital bed. It can be immediately used at the time of emergency, to quickly evacuate the patient by strapping them to the evacuation mat this method will help in the quick evacuation of the patients without the Hospital staff having to shift the patient from bed to the stretcher and wasting critical time.

The Hospital staff should be made aware of its application and methodology of usage. And should be well trained or how to use it. It is also a safe and effective way of evacuating frail or immobile children or adults.

## KEY FEATURES

- Lay the mat on the base of the bed.
- Fold the Velcro belt and store it beneath the side of the bed.
- Attach the mat to the mattress using the elastic strap.
- During emergencies wrap the bedding and secure the patient comfortable and safe with the Velcro strap.
- Remove the pulling belt from the head and foot side of the mattress.
- Two people can gently lift the patient with the mat from the hospital bed and then easily pull the mat with the patient to a safe place.

### Mat (open) dimensions

- Length: 450 cm
- Width: 310 cm
- Thickness: 10 mm

### Mat (closed) dimensions

- Length: 52 cm
- Height: 30 cm
- Thickness: 15 cm



# **E** VACUATION MATTRESS



Another great option for safe patient handling is the Evacuation Mattress. This mattress is designed for use in premises where staircases or fire exits are too narrow to allow for stretcher evacuation or in instances where evacuation chairs are not available.

This evacuation mattress is made of a tough vinyl coated base, 5cm thick foam pad, with a foot pocket at one end to prevent the patient from slipping. It is also equipped with pulling handles at each end and buckles to securely strap the patient during transfer. For the transfer to be done safely, two people will be needed during patient handling.

This also comes with a wipe-clean storage bag and can be mounted on the wall in rooms, wards or strategic areas in the staircase. During emergencies, the mat is easily removed from its bag aiding in the faster transfer of patients onto the mat.

Truly, so many lives can be saved with this practically-made evacuation mattress.



# S AFETY IN ALL FORMS



Denko



Elotec



EML



Evacuation Chairs



Gessler



Macurco



Polon Alfa



Potter



Pyrex



First Aid Kit



Evacuation Mattress



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