

CHAPTER 16

Multi-Purpose Rescue Bag

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Abstract

Malaysia is reported to have the highest rate of deforestation in 2000-2012 which leads to many natural disasters (HAKAM, 2016). This issue escalated during the 2014 Malaysia East Coast Floods which recorded more than 237,000 people were left homeless and the death toll hit 21. The bitter experience has shown that Malaysians need a better management in providing aid to the victims. Currently, the natural disaster assists materials are contained in small and fragile materials such as paper and plastic boxes which are constantly damaged before it reaches the victims. In response to this challenge, the durable and versatile Multi-Purpose Rescue Bag is designed as a multi-functional kit that act as stretcher, storage bag and a bag pack. This innovative product is built using heavy duty materials that provide durability and sustainability. The easy to use, bring, store and assemble design concept makes it an effective assistance tool for the victims and rescuers. It is best suited for rescue teams such as fire brigades, SMART, JPAM and Malaysia Ministry of Defence. This product will assist in helping Malaysia strengthen its capacity for preparedness for and response to natural disasters and emergencies.

Introduction

Multipurpose Rescue Bag is an innovative product that has innovated from an existing product, the main objectives are to facilitate the volunteer officers and certain parties to distribute necessities to victims of disasters such as floods, earthquakes and landslides. Multipurpose Rescue bag is designed in collaboration with humanitarian agencies, Educational Institutions Leavers Association of Malaysia or known as HALUAN in

order to facilitate them to lend a helping hand to those in need. Moreover, Beg Rescue Multi-purpose This can also help facilitate the rescue of various government agencies and private sector, such as the SMART team, Civil Defence Department, Social Welfare Department, the Department of National Unity and National Integration, Fire and Rescue Department, Rela Ministry, the National Security Council as well as the volunteers and the public.



Fig.1 Product specification diagram

Content

This product applies the main material, Polyurethane Foam otherwise known as PFD (Personal Flotation Device) that serves as the material for the bag floated during natural disasters such as floods. Apart from this bag specially designed so that it can float and durable so that aid can be delivered by air shipping if roads were cut off. Another

speciality is the Savior of the bag is flexible and practical that it can be used as a storage bag food, medication, and stretchers for the disaster victims in pain or who is disabled. These products are produced based on a study of the rescue work that requires a lot of equipment to be brought to the scene of the disaster. Therefore, the design of this bag combines the functions contained in the bag stretcher.

These designs are produced to ease the rescue work and reduce the equipment brought by rescuers and volunteers.

Conclusion

In conclusion, the wisdom of the great flood at the end of 2014 although many found surprising was to unite the people of Malaysia concerned. One lesson we can all learn is the preparation and the best way to prepare yourself before, during and after disasters. Loss of life that so many people and destruction of property that is so much in the history of the disaster could have been avoided if we are better prepared to face this incident efficiently and effectively. Contributions in various forms, including energy, goods and money have spontaneously given to help those affected. Thus, the invention scar Rescue Bag Versatile it can to facilitate the work of humanitarian aid and implemented.

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