

REPORT OF SMART EMERGENCY LADDER (SEL)

TOPIC:

SMART EMERGENCY LADDER FOR FIRE EXTREME (SEL4FE)

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Abstract

Smart Emergency Ladder (SEL)

Smart Emergency Ladder for Fire Extreme (SEL4FE) was an idea and initiative provide relief to fire victims escape from fire for double storey houses. This idea gave a hope to victim to save their own life, family's member and property when emergency. A unique innovation of window grills installed for home security purpose was renovated to be a ladder that easily folded and become a route to escape during fire. SEL4FE which has the characteristic of light weight, fire resistance and be able to bear a normal human load was specially created from the combination of fiberglass for the pedal (step) and iron for the main structure. Fitted on the fix panel's window grill type, SEL4FE still easy to be break when a solid shock apply to the panel during emergencies. Beside from fire escaping route purpose, SEL4FE has dual function that is escaping route from unknown individual's violated attack. SEL4FE comes with an operation manual enable victim escape by dropping a ladder's step while monitored by third party such as Fireman and Rescuer, or individual who are around the location. SEL4FE customised to be user friendly, affordable and suitable for general public who emphasise safety aspect and property. Having a high commercial value, economical and easy realised making SEL4FE become an important or must-have devise that should be given attention by authorities, housing developer an building contractor to be adapted widely in specific construction of the residential house for all communities.

TECHNICAL DESCRIPTION



FIGURE 1: PROTOTAIP FOR THE SMART EMERGENCY LADDER FOR FIRE EXTREME (SEL4FE)

ACHIEVEMENTS

No	Programme/Year	Level	Award
1.	Innovation and Invention Competition through Exhibition (iCompEx) 2014	National	Gold Medal
2.	MyInovasi 2014	National	Award Innovation Grant with value RM5000.00
3.	International Innovation Festival (INNOFEST) 2014	International	Gold Medal
4.	26 th International Invention and Innovation Exhibition (ITEX) 2015	International	Silver Medal
5.	International Engineering Invention and Innovation Exhibition (i-ENVEX) 2015	International	Gold Medal



Gold medal awards for i-ENVEX 2015



Had received a RM5000 Innovation Grant at MyInovasi 2014



iCompex 2014





Silver medal at ITEX
2015