Rex Hall 6.5 x 8m Rex Hall 10.0 x 24m Rex Hall 10.0 x 32m Series





03	Introduction
	Specification sheets
04	6.5 x 8 m
06	10.0 x 24 m
08	10.0 x 32 m
10	Applications
18	Standard accessories
19	Adjustable base plates
20	Spike puller
	Optional accessories
21	Flexible internal partitioning
22	Insulation liner system
23	Pedestrian door
24	Roll-up side door & linking kit
25	Solid flooring system
	Optional accessories (electrical)
27	Solar energy system
28	Option 1 - 50 panels
29	Option 2 - 80 panels
30	Heating system
31	Fire alarm*
32	Control panel
33	Heat detector
34	Optical smoke detector
35	Siren with strobe
36	Manual call point
37	Lighting kit*
38	Mechanical ventilation system*







Rex Hall

The king of our tent structure range

Areas experiencing humanitarian crises often lack reliable structures to accommodate affected populations, safeguard food storage and create a decent infrastructure to respond to the disasters effectively. Mobile Storage Units (MSUs), or movable warehouses, are the answer when hard structures are unavailable or inadequate.

When MSUs are deployed and installed, the available storage capacity is boosted, whilst existing structures and local constructions are rehabilitated.

NRS Relief, the industry leader in humanitarian relief products, is proud to complete its range of family and multi-purpose tents with the king of our product range, the Rex Hall. Our product development and engineering team has worked tirelessly to bring this advanced mobile storage unit to the humanitarian community.

Easy transportation

The Rex Hall has been designed specifically to be air freighted following a natural disaster, and has a lightweight aluminium frame and space-efficient packaging. This allows for cost-effective transportation to wherever on the planet disaster strikes.

Endless options and conversions

Our tent design team has ensured our Rex Hall can be converted to any given disaster response need. Our high quality and durable structures offer various options to ensure they are suitable in any challenging situation.

The main application for a Rex Hall is as a warehouse. The fabric buildings, which are safe to construct and logistically optimised, are designed to be used in all climates around the globe. The 10 metre wide and 3.3 metre high structures are perfect for palletised storage and the full-sized truck doors make the Rex Hall easily accessible.

Optional accessories allow better use of the Rex Hall:

- Flexible internal partitioning
- Insulation liner system
- · LED lighting system
- · Solid flooring system
- Pedestrian door
- · Roll-up side door and linking kit to link other Rex Halls
- Fire alarm system
- Heating system
- Mechanical ventilation system
- Solar energy system for off-grid electrical systems supply.

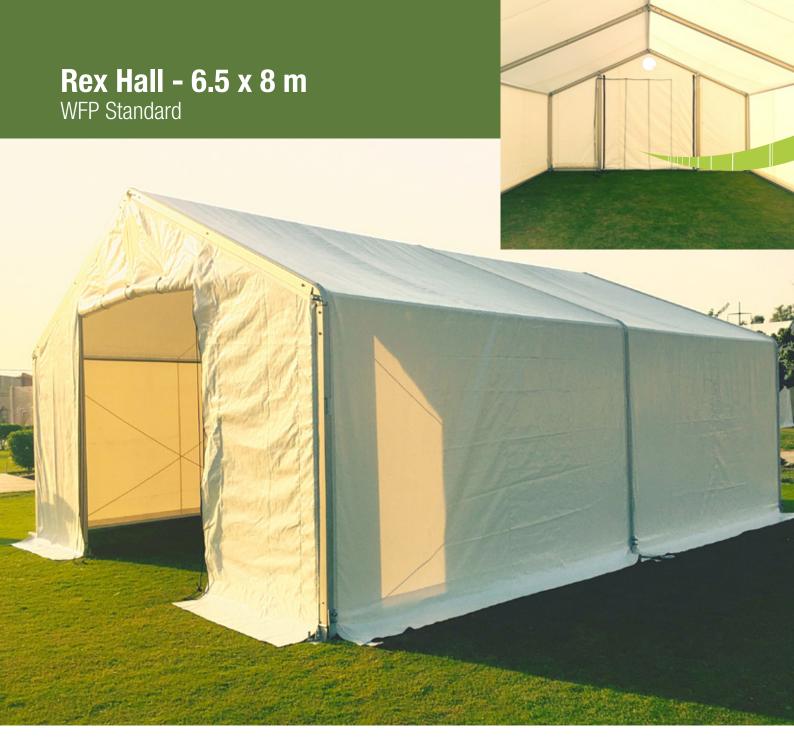
The accessories enable the Rex Hall to be used in the following configurations:

- Accommodation
- · Distribution centre
- · Dog kennels
- Hospital
- · Kitchen / Canteen / Recreation
- Office
- School
- Workshop.

Manufacturing in-house

We pride ourselves in manufacturing all products that we sell, including the highly specialised production of our Rex Hall in our factory H. Sheikh Noor-ud-Din & Sons in Lahore, Pakistan. Please visit our website www.nrsrelief.com to view our Rex Hall production process and assembly videos to see the king of the range come alive.





Key features

- WFP standard mobile storage unit (MSU)
- Fast set-up with three to four personnel without use of lifting equipment or working on heights
- Made of durable aluminium box profiles and hotdipped galvanised hardware, with covers of durable fire retardant and UV-resistant translucent PVC fabric
- · Fully HF welded for long life
- Standard size 6.5 m width by 8 m with large entry doors (sections of 4 m length can be added)
- Designed to withstand high winds up to 31 m/s (>110 km/h) and can be used in both hot and cold climates.

Dimensions

6.5 x 8 m
52 m ²
52 m²
3.90 m
6.50 m
8.00 m
2.50 m
2.90 x 3.00 m
2.70 - 3.50 m













Materials	All our materials are UV-proof, waterproof, rotproof and fire retardant Marking and logos can be customised to your requirements
Outer tent	Roof, wall, gable covers: 700 gsm PVC coated polyester, white, UV protected
Tent parts	
Ventilators	The gable ends are fitted with high placed large ventilators with mosquito netting
Doors	Both gable ends are fitted with roll up doors, 2.9 x 3.0 m
Modularity	The length of the shelter can be endlessly extended with modules of 6.5 x 4 m

Package	Α	В	С	D	Total gross weight
Items	 half truss purlins wall tension bars gable columns lifting fork for purlins 	 wall elements gable tension bar right gable tension bar left 	 roof apex base plate gable base plate counter bracing cables wall ground spikes 20 x 800 mm Bolts and nuts tension bar tool rope 15 m tool kit repair kit spade assembly manual 	 roof cover roof cover for logo gable cover with roll-up door logo banner 	
Weight (kg)					64
m³					1.6

Estimated loadability	
Container	Number of tents
20' GP container	14 shelter
40' GP container	28 shelter
40' HC container	32 shelter



Rex Hall - 10.0 x 24 m Used by IFRC/ICRC/WFP/UNHCR/UNICEF





Key features

- Mobile storage unit (MSU) used by IFRC/ICRC/WFP/ UNICEF/UNHCR
- Standard size 10 m width by 24 m length (extra sections of 4 m length can be added) with large entry doors
- Fast set-up with 4-6 personnel without use of lifting equipment or working on heights
- Made of durable aluminium box profiles and hotdipped galvanised hardware, with covers of durable fire retardant and UV-resistant translucent PVC fabric
- Fully HF welded for long life
- Designed to withstand high winds up to 31 m/s (>110 km/h) and can be used in both hot and cold climates.

Dimensions

Standard size	10 x 24 m
Total usable area	240 m2
Main floor	240 m2
Centre height	5.50 m
Width	10.00 m
Ridge length	24.00 m
Side wall height	3.35 m
Gable doors (width and height)	
Total size	4.50 x 4.00 m
Modular frame	
Aluminium box profiles	4.00 x 5.50 m
Hot-dipped galvanised steel apex, base plates and other steel components	













Materials	All our materials are UV-proof, waterproof, rotproof and fire retard Marking and logos can be customised to your requireme						
Outer tent		Roof, wall, gable of	covers: 700 gsi	n PVC coated pol	yester, white	e, UV protected	
Tent parts							
Ventilators				The gable end	ds are fitted with h	igh placed l	arge ventilators
Doors				Both gable	ends are fitted with	h sliding do	ors, 4.5 x 4.0 m
Modularity			The length of th	e shelter can b	e endlessly extend	ded with 10	x 4 m modules
Packing a	nd shipping						
Package	Α	В	С	D	E	F	Total gross weight
Items	 roof cover roof cover for logo gable cover with sliding door gate cover logo banner 	roof apex base plate standard gable base plate, standard counter bracing cables wall counter bracing cables roof ground spikes 20x 1000 mm tension bar tool rope 30 m tool kit repair kit spade assembly manual sledge hammer roll thread 3 mm Nuts Bolts Linch pin and washer	 gable columns lifting fork for purlins 	wall elements	 gate assembly gable tension bar right gable tension bar left 		
Weight (kg)							1,950

Estimated loadability	
Container	Number of tents
20' GP container	6 tents
40' GP container	11 tents
40' HC container	12 tents



m³

4.9



Key features

- Mobile storage unit (MSU) used by IFRC/ICRC/WFP
- Standard size 10 m width by 32 m length (sections of 4 m length can be added) with large entry doors
- Fast set-up with 4-6 personnel without use of lifting equipment or working on heights
- Made of durable aluminium box profiles and hotdipped galvanised hardware, with covers of durable fire retardant and UV-resistant translucent PVC fabric
- Fully HF welded for long life
- Designed to withstand high winds up to 31 m/s (>110 km/h) and can be used in both hot & cold climates.

Dimensions

Standard size	10 x 32 m
Total usable area	320 m²
Main floor	320 m²
Centre height	5.50 m
Width	10.00 m
Ridge length	32.00 m
Side wall height 3.35 m	

Total size	4.50 x 4.00 m
iotai size	4.00 X 4.00 III

Modular frame

Alum	ninium box profiles	4.0 x 5.50 m

Hot-dipped galvanised steel apex, base plates and other steel components













Materials	All our materials are UV-proof, waterproof, rotproof and fire retardant Marking and logos can be customised to your requirements	
Outer tent Roof, wall, gable covers: 700 gsm PVC coated polyester, white, UV protected		
Tent parts		
Ventilators	The gable ends are fitted with high placed large ventilators	
Doors	Both gable ends are fitted with sliding doors, 4.5 x 4.0 m	
Modularity	The length of the shelter can be endlessly extended with 10 x 4 m modules	

Packing and shipping							
Package	A	В	С	D	E	F	Total gross weight
Items	7x roof cover 1x roof cover for logo 2x gable cover with sliding door 4x gate cover 4x logo banner	Bolts and nuts	18x half truss 24x purlins 16x wall tension bars 4x gable columns 1x lifting fork for purlins	18x wall elements & corner joints	2x gate assembly 2x gable tension bar right 2x gable tension bar left	1x ladder	
L x W x H (cm)	115 x 80 x 100 115 x 80 x 60	120 X 80 X 60	520 x 65 x 75	370 x 60 x 55	440 x 40 x 25	425 x 40 x 10	
Weight (kg)	755	420	745	430	85	10	2,445
m³	0.92 + 0.55 = 1.47	0.55	2.54	1.22	1.32	0.17	7.27

Estimated loadability				
Container	Number of tents			
20' GP container	5			
40' GP container	8			
40' HC container	10			



Rex Hall applications

Accommodation

A Rex Hall can be easily transformed into a large accommodation tent. Depending on the scale of comfort, the standard structure can be fitted with a soft flooring liner to provide safe accommodation for 100 people in a Rex Hall 10.0×24.0 m. For more comfort, the tent can be upgraded with solid flooring, insulation liners with additional heating or air conditioning, and a flexible partition system to create wall partitions and even individual accommodation cabins.

- · Soft flooring
- · Solid flooring system
- Insulation liners
- · Pedestrian access doors in gable and side walls
- · Flexible partition system
- · Field beds and mattresses.

Distribution centre

A Rex Hall can also be used as a distribution centre for the controlled distribution of goods. A standard Rex Hall can be fitted with additional roll-up doors at preferred positions in the side walls, using one Linking Kit to connect other Rex Halls.









Rex Hall applications

Hospital

A Rex Hall forms a safe and flexible modular structure that can be transformed into a medical facility, from a basic medical post to a full-scale hospital.

With standard available accessories and options such as LED lighting and a power distribution system, the basic infrastructure can be realised. Additional accessories such as special operating rooms make for a total solution.

- · Soft flooring
- · Solid flooring system
- · Insulation liners
- · Pedestrian access doors in gable and side walls
- Cover panels with windows
- · Flexible partition system
- · Heating or air conditioning
- · Medical inventory and equipment.

Kitchen / Canteen / Recreation

A standard Rex Hall can be converted into a kitchen and canteen area, with additional use as recreation area and central meeting hall.

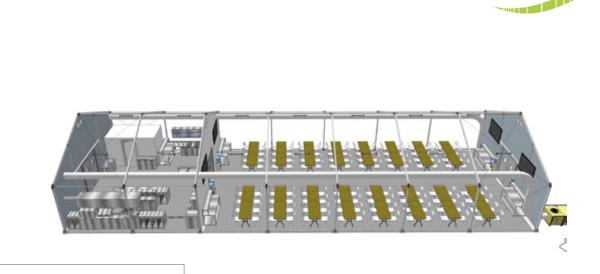
Standard accessories such as flooring, doors, lighting, and partition walls in combination with customised appliances for the kitchen and canteen areas (i.e. extra ventilation and cooking equipment) make a comfortable and hygienic space for eating and meeting.

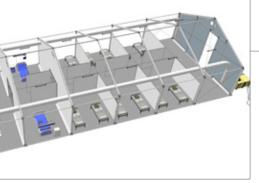
- · Solid flooring with waterproof liner
- · Additional ventilation
- · Pedestrian access doors
- Cover panels with windows
- · Internal partition walls
- · Insulation liner
- · LED lighting
- · Kitchen and canteen inventory.



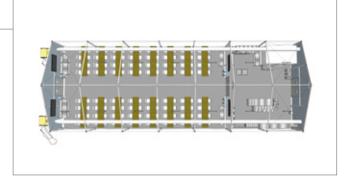


Canteen

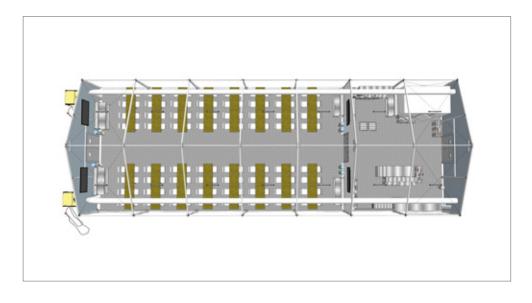




Hospital with operating theatre









Rex Hall applications

Offices

A standard Rex Hall structure can be partially or fully converted and optimised as an office.

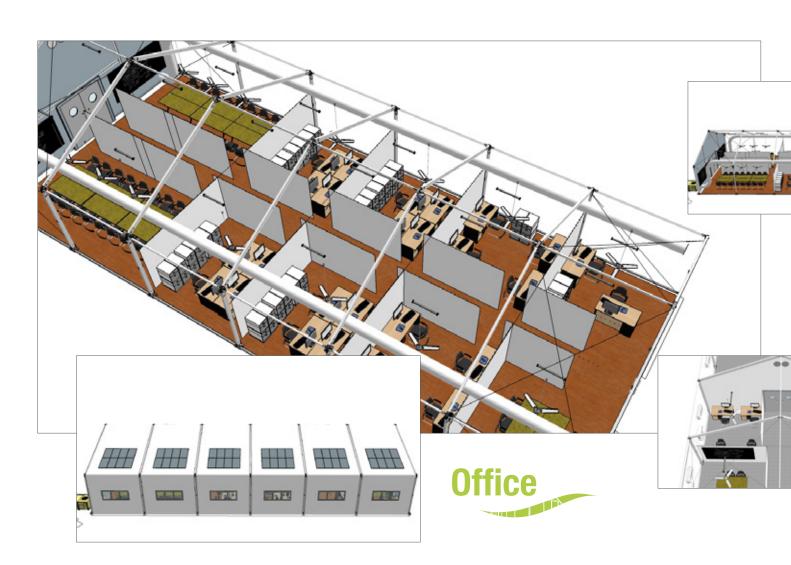
- · Central pedestrian access doors
- · Insulation liner with windows
- · LED lighting
- Solid floor with waterproof liner
- · Flexible internal partition system
- Fire alarm system
- · Power socket harness system
- · Desks, chairs and storage cabinets
- Hot air heating system
- · Air conditioning
- · Solar energy system.

School

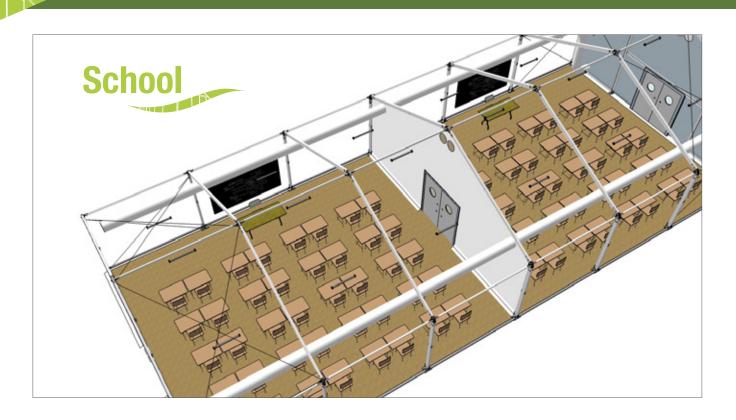
A standard Rex Hall can be converted into a temporary school building. Its modular construction allows setup of a building to its required size. One or multiple classrooms can be created, fully separated from each other and with individual entry doors.

A large window in the side walls, made of clear PVC film or with additional mesh for added ventilation, provides plenty of daylight. The Rex Hall school can be fitted with liner panels or insulated liner panels for added comfort, with heating or air conditioning, if required.

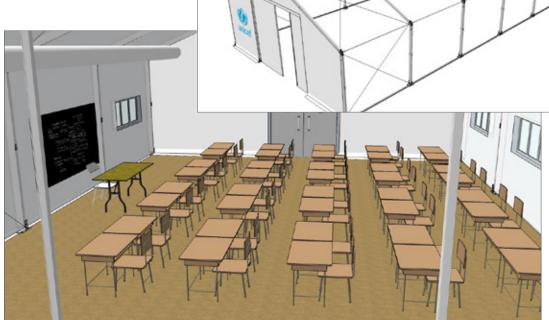
- · Internal partition walls
- · Solid flooring with waterproof liner
- · Roof covers with 2-layer or 3-layer windows
- · Pedestrian access doors in side walls
- LED lighting system
- · Solar energy systems
- · Desks, chairs, blackboard and cabinets.

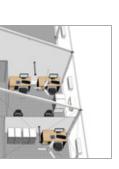














Rex Hall applications

Warehouse

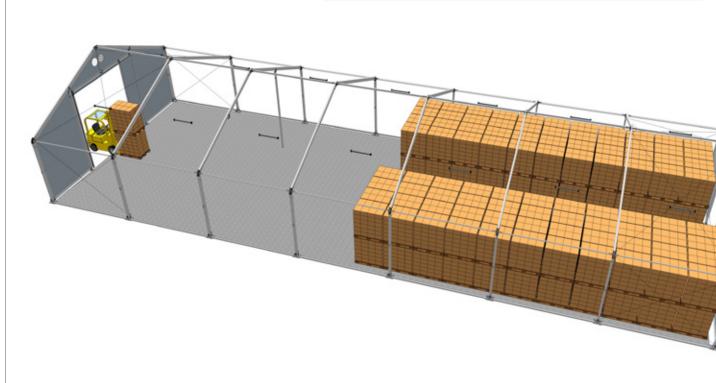
The main application for a Rex Hall is a warehouse. The fabric buildings, which are safe to construct and logistically optimised, are designed to be used in all climates around the globe. The 10 m width and the 3.3 m high walls are perfect for palletised storage and the full-sized truck doors make the Rex Hall easily accessible.

Optional accessories allow better use of the Rex Hall warehouse:

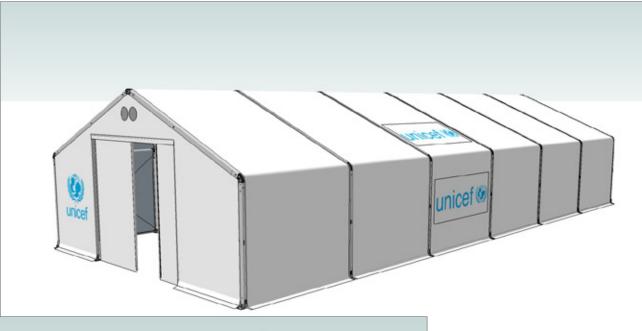
- LED lighting system
- Solid flooring
- · Fire alarm system
- Pedestrian access door
- · Linking kit to give access to Rex Halls via the side wall
- · Outdoor lights
- Solar energy system for off-grid electrical systems supply.

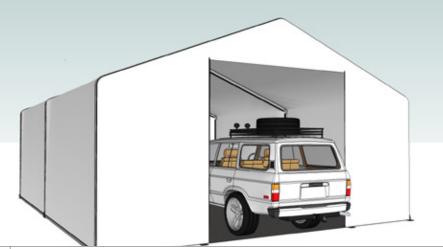










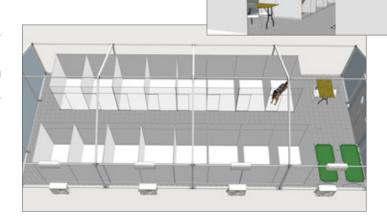




Dog Kennels



Upon special request, the Rex Hall can be turned into dog kennels, for example to accommodate rescue dog operations.





Accessories

Standard configuration

Aluminium structure with galvanised steel components

Adjustable base plates

PVC wall/roof covers with integrated ballast pockets

Logo banners

Sliding vehicle doors in both gables

• 10.0 x 24 m & 10.0 x 32 m only

Roll-up vehicle doors in both gables

• 6.5 x 8 m only

Tool set, spike puller & instruction manual

Field repair kit

Solar energy system

Option 1 - 50 panels

Option 2 - 80 panels

Non-electrical accessories

Flexible internal partitioning

Pedestrian door

- Central pedestrian door
- Lateral pedestrian door

Insulation liner system

Roll-up side door & linking kit

Solid flooring system

Electrical accessories

Heating system

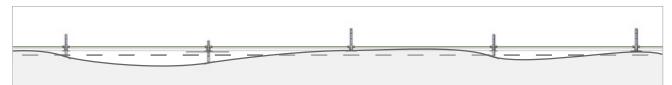
Fire alarm

- 1. Control panel
- 2. Heat detector
- 3. Optical smoke dectector
- 4. Siren with strobe
- 5. Manual call point

Lighting kit

Mechanical ventilation system







Adjustable base plates for the Rex Hall 10.0 and Rex Hall 6.5 series with vertical movement allow easy assembly of the mobile storage units on uneven ground.

Features

- 200 mm vertical movement
- Identical functionality as the standard base plates
- Available for the Rex Hall 10.0 and Rex Hall 6.5 series



















The spike puller is a heavy duty tool for easy extraction of Rex Hall spikes from the most dense soils.

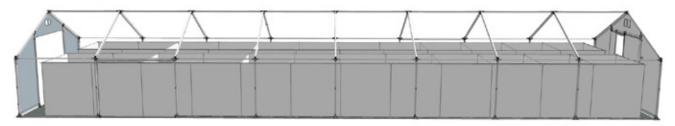
Features

- Made of hot-dipped galvanised steel Grabber head made of hardened steel
- Easy to use Extendable lever for more upright force
- Usable for spikes of 15-25 mm ø Supplied as standard with every Rex Hall 10.0 series.

Logistics

Weight (kg)

17.5

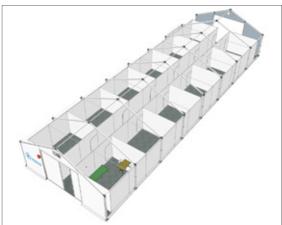




Fabric wall system comprising corner joints, aluminium pipes and PVC fabric panels to create free-standing internal partitions.

Features

The system enables endless layout options, using independent cubicles of $2.5 \times 2.5 \text{ m}$ (6.25 m^2), $2.5 \times 4.0 \text{ m}$ (10 m^2), $4.0 \times 5.0 \text{ m}$ (20 m^2). Cubicles can be joined together for larger spaces. The system contains all components to set up 6 cubicles of $4.0 \times 5.0 \text{ m}$ (20 m^2) per side, 12 in total, seperated by a corridor of 1.6 m width. One of the PVC panels per cubicle is fitted with a door, which is closable with strong zippers. The cubicles can be covered with a ceiling made of strong polyester mesh.





Components

PVC wall panel 3 x 4 m

PVC wall panel 3 x 2.5 m

PVC wall panel 3 x 2.5 m door

PES mesh ceiling panel

X top connector

X base connector

T base connector

Aluminium pipes 30 mm ø x 2.5 m

Aluminium pipes 30 mm ø x 3.0 m

Aluminium pipes 30 mm ø x 4.0 m

Aluminium pipes

Connectors

PVC panels









We offer a modular insulation liner system. The lightweight, highperformance, multi-layer insulation material is attached to PVC fabric. The layers can be compressed to reduce transport volume.

Features

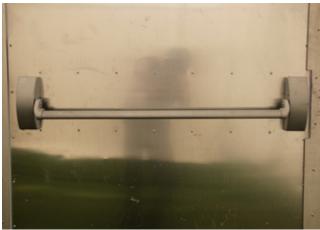
- Comprises multiple layers of foams, wadding and aluminium foil attached to FR treated PVC fabric
- The combination of materials reflects heat (radiation), reduces thermal loss through air (convection) and avoids direct heat loss through the layers of materials (conduction)
- The liner is lightweight; the total weight of the material is just over 400 gsm
- The liner modules are connected to each other with Velcro and a loop/lacing mechanism and are suspended from the structure, creating an air gap of 150-200 mm with the outer cover
- The liner can be used in combination with the Lighting System and Fire Alarm System
- If the tent is fitted with a Linking Kit, a special liner module is available for it as well as an insulated connection tunnel
- If the tent is used for accommodation and fitted with windows, pedestrian doors and heating system, a special modular liner system is available with a lowered ceiling for added comfort especially in hot climates
- The insulation liner consists of 4 m length modules, allowing it to fit in any Rex Hall type, regardless of length. The individual modules are easy to pack and to transport.
- All materials are non-toxic and safe for the users and the environment. The materials are typically recyclable.

Internal reflective foils	
Wadding layers	
Foam layers	
External reflective foil with	

Logistics - Full set of liners, incl. suspension system				
Series	Total weight (kg)			
Type 1	363			
Type 2	460			
Type 3	470			

reinforcing mesh





Pedestrian door - LEFT of sliding door - complete kit

Components	
Door, aluminium (100 x 210 cm) with pushbar lock	1
Door frame, steel with adjustable base plate	1
Top bar, aluminium	1
Gable cover, pedestrian door left	1
Bolts and nuts	1
Assembly manual	1

Logistics	
Pack size	115 x 220 x 20 cm
Total weight	70 kg





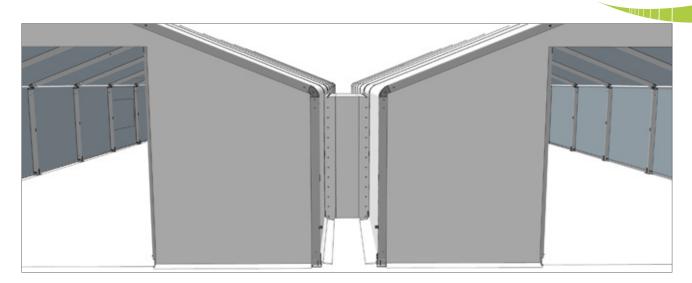
Pedestrian door - CENTRAL - replacing sliding door - complete kit

Components	
Door, aluminium (100 x 210 cm) with pushbar lock	1
Door frame, steel with adjustable base plate	1
Set, gable tension bars	1
Gable cover, full for central pedestrian door	1
Bolts and nuts	1
Assembly manual	1

Logistics

Total weight 75 kg











The Rex Hall series can be fitted with an optional roof panel with side doors. The 3 m high roll-up doors allow access with a forklift. When two Rex Halls are placed side-by-side, the tent can be joined with a connection tunnel, making indoor access possible between the two Rex Halls.

Features

- The roof panel with roll-up side doors can be placed in any location, except where the wall bracing cables are placed
- The connection tunnel is joined to adjacent tents with a reliable lacing and loop system
- The connection tunnel can be adjusted in length from 1 to 1.5 m to ensure a tight fit
- The overlap flap on roof covers, combined with a water lock strip on the connection tunnel, ensure a weather proof connection
- The roof panel with side doors is tensioned using the standard wall tension bars and special joining rods supplied with the linking kit
- The roll-up doors can be locked from the inside of the tent using padlocks
- A special insulated connection tunnel is available for tents fitted with insulated liners.

Series	Dimensions (mm)	Weight (kg)
Rex Hall	Roof cover with roll-up doors and connection flaps + 2 sets of tension tools	74
10.0 m series	Connection tunnel	21
	Connection tunnel, insulated	27
Rex Hall 6.5 m series	Roof cover with roll-up doors and connection flaps + 2 sets of tension tools	49
	Connection tunnel	19



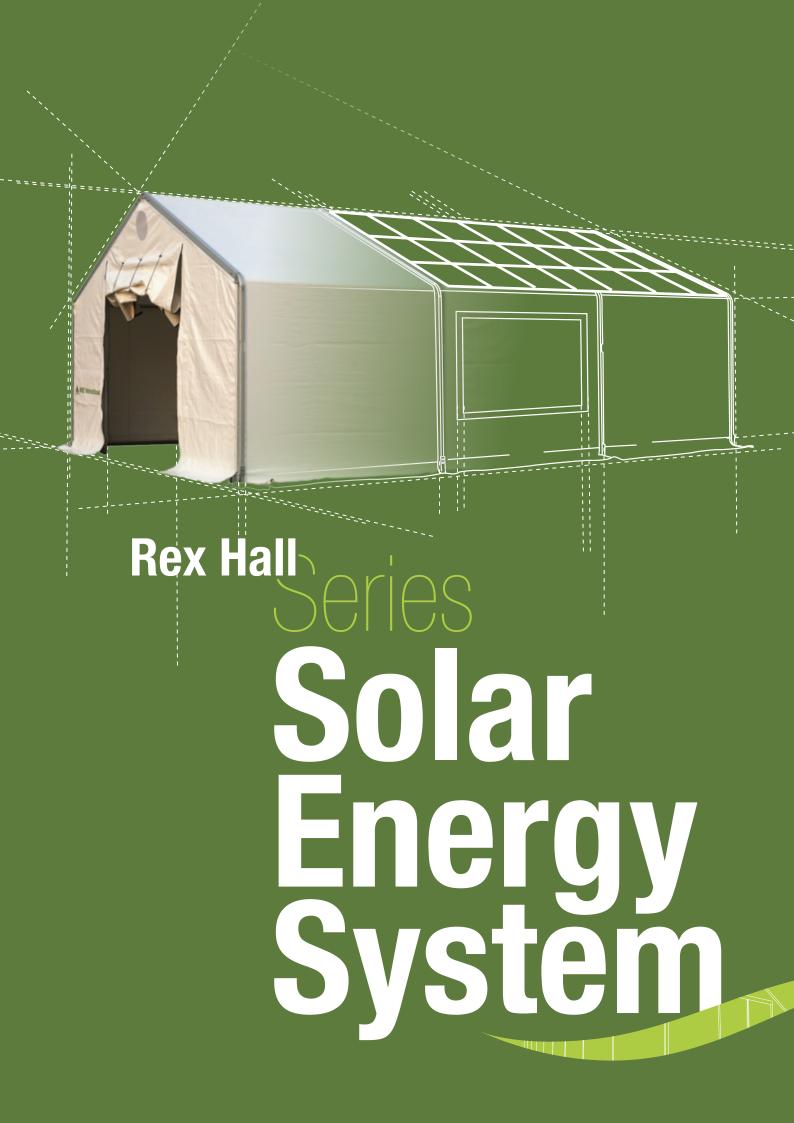




Lightweight, high-impact and load bearing flooring system to cover sandy and grass-covered soil. The interlocking panels hinge at the connections allowing higher loads. The panels can be stacked for storage and transport, or made to rolls of a desired width for faster assembly.

Panel size	305 x 102 x 18 mm / 32 pcs = 1 m ²
Material	High impact polypropylene
Weight	120 g/pcs / 3.84 kg/m ²
Surface	Anti-slip, draining holes
Fire rating	UL94HB
Temperature resistance	-30°C ~ +50°C
UV resistance	Life span > 10 years
Load resistance	24,000 kg/m²





Solar Energy System

The Solar Energy System is designed to provide power for the Lighting System, the Mechanical Fan and the Fire Alarm. Two size options are available to best match the power needs based on the geographical location.

Option 1

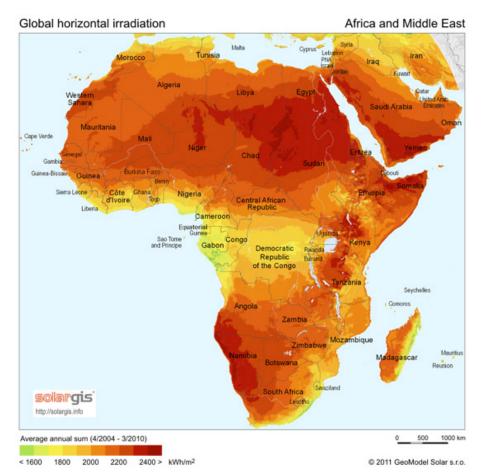
Sites with high solar irradiation

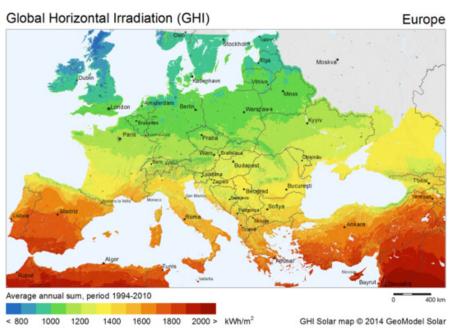
The first system offers 13 kWp with a battery bank of 57.6 kWh for areas where solar irradiation is very high (average of 2200 kWh/m² or more per year). Seasonality is marginally having an impact. In other words, the off-grid system performance should be even throughout the year.

Option 2

Sites with medium solar irradiation

The second system offers 20.8 kWp with a battery bank of 76.8 kWh for areas where solar irradiation is medium high (average 1800-2200 kWh/m² average per year). The solar system performance will have its limitations during the winter season in the northern hemisphere. A hybrid system with grid-connection is more appropriate.

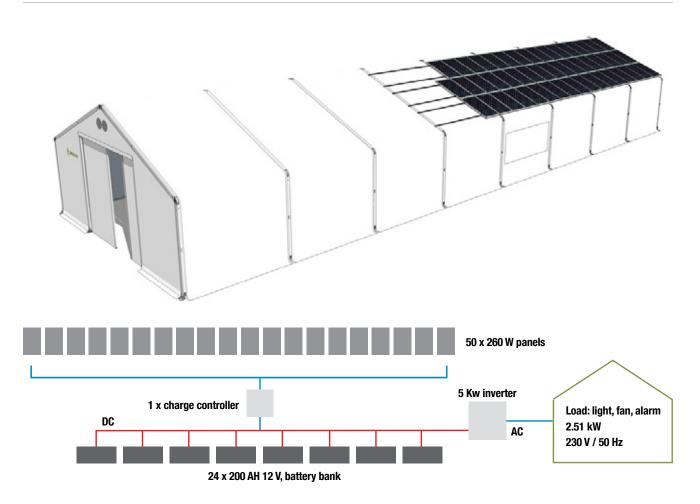






Solar energy system Option 1 - 50 panels

Independent power supply system producing 3 kW of power (230 V / 50 Hz) 24/7, generated from PV panels during the day and batteries during the night. The batteries are charged with the excess energy from the PV panels during the day.



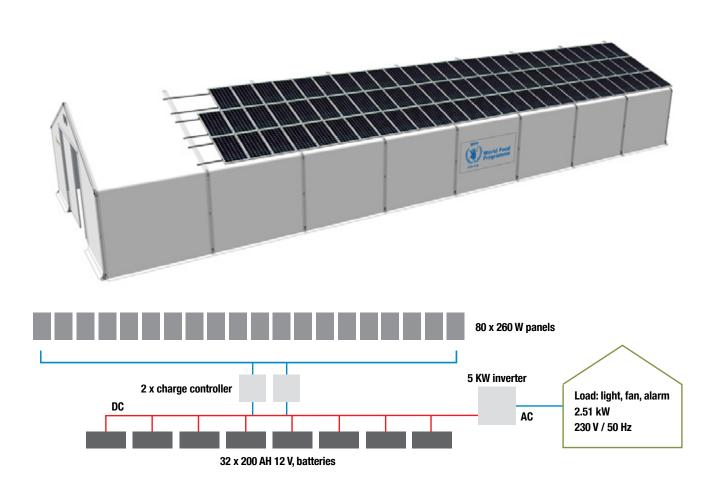
	Specs/pc	Quantity	Dimensions (mm)/pc	Mounting system
PV panel	260 W	50	1654 x 989 x 40	On Rex Hall roof structure
Battery bank	200 Ah	24	522 x 240 x 225	In two stackable racks
Charge controller	100 A	1	216 x 203 x 107	Plug and play
Inverter	5000 W	1	420 x 217 x 155	Plug and play cabinet
Connection cable mounting frame PV kit		50		



Solar energy system

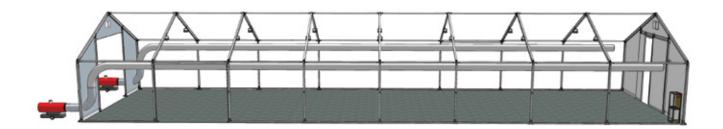
Option 2 - 80 panels

Independent power supply system producing 3 kW of power (230 V / 50 Hz) 24/7, generated from PV panels during the day and batteries during the night. The batteries are charged with the excess energy from the PV panels during the day.



	Specs/pc	Quantity	Dimensions (mm)/pc	Mounting system
PV panel	260 W	50	1654 x 989 x 40	On Rex Hall roof structure
Battery bank	200 Ah	24	522 x 240 x 225	In three stackable racks
Charge controller	100 A	1	216 x 203 x 107	Plug and play
Inverter	5000 W	1	420 x 217 x 155	Plug and play cabinet
Connection cable mounting frame PV kit		80		



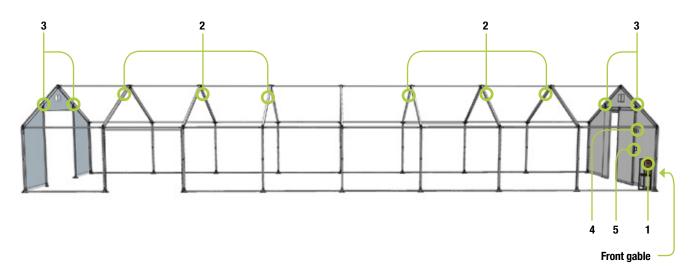


Efficient diesel/kerosene fuelled and temperature controlled space heaters with heat distribution via suspended fibre diffusion tubes.

tubos.		
Components		
EO INM dia ad //www.aaaaa in diwaat baatay	Voltage	220 V-240 V, 50/60 Hz
53 kW diesel/kerosene indirect heater	Max heat output at 52.5 kW/h	45,200 kCal/h
	Motor power	520 W
- III	Heatable area	300-400 m²
	Operation temperature range	0°C - 40°C
	Tank capacity	60 L
7	Average fuel consumption	4.8 L/h
0	Colour option	Red

Item	Diameter (mm)	Shape	Length (m)	Quantity	Specification
	350	Straight	28	1x	
Fibre air duct	350	S-shape	0.52	2x	With hot air nozzle
Galvanised air outlet	350	Straight	0.4	1x	
Stainless steel wire cable	2.5	Flexible	40	2x	With fastener

Logistics						
	Weight (kg)	Dimensions (mm)	Quantity	Total weight (kg)	Total packing size (mm)	
Space heater on pallet	130	1400 x 800 x 1000			2 x 1400 x 800 x 1000	
Fibre diffusion tube, S-shaped duct, air	00	4450 000 000	2	420	+	
outlet, steel wire cable, thermostat	80 1150 x 800 x 80				2x 1150 x 800 x 800	



Fire detection and alarm system with smoke and heat detectors, manual alarm button and visual and acoustic alarm.

Components					
Item No.	Quantity	Description	Remarks		
1	1	Control panel conventional 2 Zone, LIFECO, Model Eagle 2	EN54		
2	6	Detector heat conventional 24vdc with base, LIFECO, Model LF-HD-4112 Kite Mark	See 'Notes' No.1		
3	4	Detector optical smoke conventional 24vdc with base, LIFECO, Model LF-PE-4111 kite mark	See 'Notes' No. 2 and 3		
4	1	Siren with strobe 24vdc, LIFECO, Model LF / SS	Standard approved		
5	1	Manual call point conventional with cover, LIFECO, Model LFB10	Standard approved		

Special notes and instructions			
1	Heat detector is suitable for warehouse detection		
2	Smoke detector might cause a false alarm due to dust and other particles		
3	Beam detector requires a minimum height of 9 m, 5.5 m might cause a false alarm.		



Fire alarm

1. Control Panel



Technical data sheet

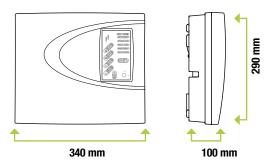
Used by architects and engineers







Dimension details



Description

The conventional fire alarm control panel provides two fixed zones, with up to 32 fire detectors and unlimited call points that can be connected to every fire zone. This is enclosed in a plastic box. The panel is easily installed and maintained and provides user-friendly daily operations. The panel is suitable for residential, small and medium sized office applications, with protected areas up to 1000 $\rm m^2$. The panel is available in different language versions for the front panel.

Features

- · 2 fixed zones
- · Supports up to 64 detectors
- Unlimited call points
- 1 'fire' and 1 'fault' relay outputs
- 2 monitored sounder outputs
- · Active EOL allowing continuous monitoring of inputs
- · Walk test
- LED indication
- · Levels of access protected by means of security key
- Plastic box

Technical data sheet

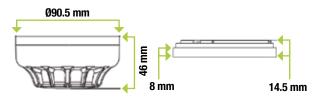
Used by architects and engineers

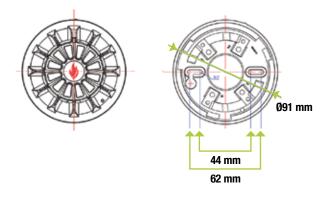
Heat Detector

Model No: LF-HD-4112



Dimension details





Description

The LF-HD-4112 conventional type heat detector identifies fire with both rapidly rising and gradually increasing temperature. The three levels of fixed temperature settings adapt to the local temperature of the area being protected.

The detector utilises a modern, accurate, state of the art negative temperature coefficient (NTC) thermistor that senses thermal changes in the protected area. Combined with the data stored in its non-volatile memory, the detector sends out alarm information to the fire alarm control unit during rapid rise of heat or upon reaching its pre-set temperature rating.

The LF-HD-4112 conventional heat detector also has the provision of connecting a remote LED indicator.

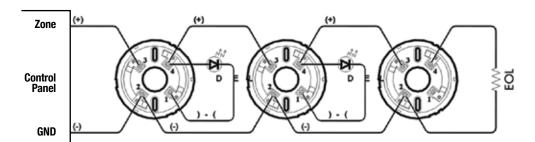
The detector's design widely applies to all kinds of industrial and commercial constructions with its high resistance to humidity, wide operating temperature range, high reliability and ease of installation.

Features

- · Microprocessor-based design
- · High accuracy of fire detection
- · Rate of rise and fixed temperature
- · Quick fire alarm transfer speed
- Polarised wiring
- · Provision for remote LED Indicator
- · Ease of maintenance

Technical & environmental specifications

Operating voltage	18 – 26 V
Quiescent current	≤50 µA
Alarm current	≥22 mA
Operating temperature	−10°C~+50°C
Relative humidity	≤95%
Detector dimension	Ø90.5 x 38.0 mm
Dimension including base	Ø91.0 x 45.5 mm
Weight	About 100 g
Colour	White
Indoor use only	



Note

Remove EOL from panel to the last device



Fire alarm

3. Optical Smoke Detector



Technical data sheet

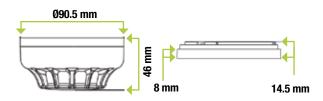
Used by architects and e ngineers

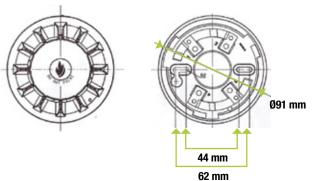
Photo Electric Smoke Detector

Model No: LF-PE-4111



Dimension details





Description

The LF-PE-4111 conventional type photoelectric smoke detector uses a specialised smoke chamber design, which senses the presence of smoke particles produced by fast combustion or slow smoldering fire. Combining fire algorithms stored in its memory with the special three part design of the smoke chamber and given the photo-sensor's viewing angle, the detector can effectively sense both white smoke and black smoke with virtually no false alarms.

Accurate analysis of fire is achieved using its built-in microprocessor and fire data stored in its non-volatile memory. With the detector's automatic environmental compensation settings, it adjusts itself according to its environment or application thus improving the veracity of fire judgment.

The LF-PE-4111 conventional type photoelectric smoke detector also has the provision of connecting a remote LED indicator.

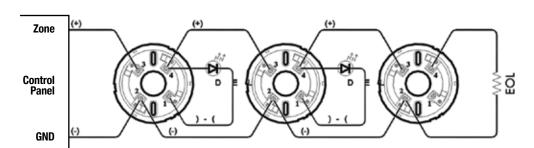
The detector's design widely applies to all kinds of industrial and commercial constructions with its high resistance to humidity, wide operating temperature range, high reliability and ease of installation and configuration.

Features

- · Microprocessor-based design
- High accuracy fire detection
- Quick fire alarm transfer speed
- · Special chamber design
- Polarised wiring
- Provision for remote LED Indicator
- · Ease of maintenance

Technical & environmental specifications

Operating voltage	18 – 26 V
Quiescent current	≤65 µA
Alarm current	≥m A
Operating temperature	-10°C~+50°C
Relative humidity	≤95% Non condensing
Detector dimension	Ø90.5 x 38.0 mm
Dimension including base	Ø91.0 x 45.5 mm
Weight	About 100 g
Colour	White
Indoor use only	



Note

Remove EOL from panel to the last device



Technical data sheetUsed by architects and engineers

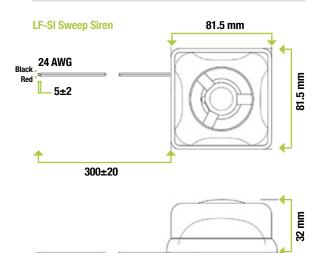
Siren with Strobe Model No: LF/B10

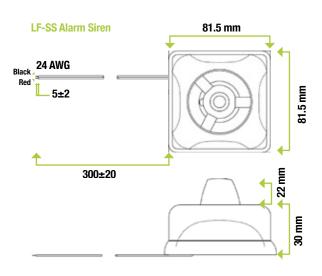






Dimension details





Description

The LF-SI/SS siren with strobe is designed for maximum performance, reliability and cost effectiveness. It adopts a built-in integrated circuit, a piezoelectric sounder and high intensity strobe which when combined, produces high energy conversion efficiency for effective output of light and sound while utilising a minimum of power.

The LF-SI/SS can be mounted by opening the front cover and installing the body of the device to a standard 3" square box.

The mounting holes are hidden when the cover is placed. The modern style of the strobe unit and the contour of the device complements any building wall design.

The indicator's design widely applies to all kinds of industrial and commercial constructions with its high resistance to humidity, wide operating temperature range, high reliability and ease of installation and configuration.

Features

- · Quick response time
- 100±5dB (@24v DC)
- Piezoelectric horn
- · High performance at low cost
- · Integrated electronics
- High intensity strobe
- Reverse polarity protection
- Easy maintenance
- Easy to install
- · 2-wire operation
- · Ceiling or sidewall mount

Technical & environmental specifications

Input voltage		24VDC 12~30VDC
Sound output		100±5dB
Operating temperat	ture	-100°C ~ +60°C
Material		ABS / polycarbonate
Relative humidity		≤95%
	LF-SI	LF-SS
Operating current	22~28m A	50~65m A
Tone type	Sweep siren	Alarm siren
Colour	Red	Red



Fire alarm

5. Manual Call Point



Technical data sheet

Used by architects and engineers

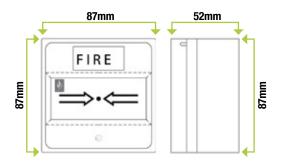
Call Point Series Model No: LF/B10



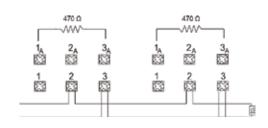




Dimension details



Wiring details



Note

Remove EOL from panel to the last device

Description

The LF/B 10 call point series satisfies the requirements for a manual fire alarm initiating device. With its sleek and durable design, it is easily observed yet does not hinder building design. It can be fitted along corridors, hallways and exits for easy access to operate in cases where there is a requirement for activating an alarm signal.

The switch inside is kept pressed by the edge of the plastic film. When the plastic film is pushed, the switch is released and causes an alarm signal to be sent to the fire alarm control panel through the panel initiating circuit.

The MCP's design widely applies to all kinds of industrial and commercial constructions with its high resistance to humidity, wide operating temperature range, high reliability and ease of installation.

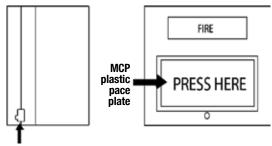
Features

- · Arabic and English label
- · Quick fire alarm transfer
- · Easy operation push to activate
- No polarity
- Ergonometric construction
- Durable design
- High performance at low cost
- · Easy to install
- · Semi-flush or surface mount
- · With protective cover
- · Suitable for indoor use

Technical & environmental specifications

Red
87x 87 x 52 mm
ABS plastic
≤3±2%
-10~+500C
≤0.1
5A 220VAC 50HZ & 60HZ BA 24VDC
220VAC 50HZ & 60HZ BA 24VDC
Suit 0.28 mm ² to 2.5 mm ² cables

Testings



Test/Reset key slot

- Insert test/reset key to the slot
- Slide down the plastic face plate
- Remove the test/ reset key
- In case of fire/ emergency press the plastic face plate so that the inside button has been activated





Description

Cost saving high performance LED Lighting Systems. Complete sets, including mounting kits, extension cords and power distribution board.

Components









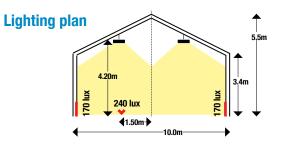


Pac	Packing list						
		10 x 24 (Type 1)	10 x 32 (Type 2)	6.5 x 8 (Type 4)			
Α	Led light 60W including hanging bracket, 1m cable female plug, 6m cable male plug	10	14	2			
В	Extension cable, 6 m	5	7	1			
С	Power distribution board, 4x 16A	1	1	1			
D	Set of duct tape and cable ties	1	1	1			
Е	Packed in wooden box	800 x 600 x 600	800 x 600 x 800	400 x 500 x 400			
	Packing volume (m3)	0.288	0.384	0.08			
	Total weight (kg)	75	100	27			

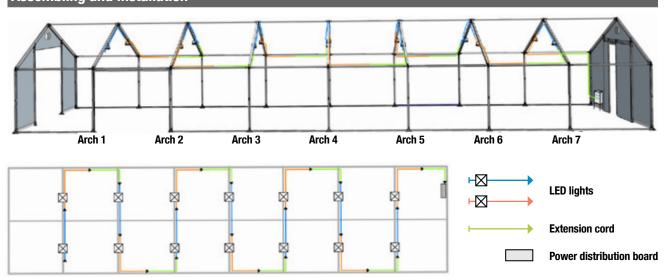


LED 60 W

Voltage 85-260 V / 50-60 Hz **IP class** IP67



Assembling and installation





Mechanical ventilation system







Electrical forced air exchange ventilation system to enhance and support the natural ventilation of the Rex Hall series.

300 mm Axial Flow	v Extractor Fan
Voltage	230 V / 50 Hz
Current	0.4 A
Max power	60 W
IP class	IP44
Speed	1300 RPM
Duty at discharge	1400 m3/h
Sound pressure level	48 dB(A)
Construction	Galvanised steel sheet, epoxy polyester paint, sleeve bearings self-lubricated
Motor	Thermal protected and self-resetting
Weight	4.8 kg including mounting plate

Electronic multi-speed fan controller			
Туре	Electronic single-phase speed controller		
Fuse protection	32 mm ceramic 3.0 Amp "F" type		
Controls	Single on/off and speed regulation control knob		
EMC requirements	The unit meets the EMC requirements of: EN 61800-3:1997 and EN61000-3:2006		

Notes

