

ARE YOU FIRE EVACUATION SAFE?



**DOES HIGH-RISE
FIRE SCARE YOU?**



**HOW TO EVACUATE ELDERLY
AND KIDS DURING FIRE?**



**DO YOU KNOW THE EFFECT OF SMOKE
DURING FIRE EVACUATION?**



**ARE YOU TRAINED FOR
EVACUATION IN CASE OF FIRE?**



**35 INDIANS DIE
DUE TO FIRE
EVERYDAY**



**9000+ CASUALTIES
DUE TO FIRE
EVERY YEAR**



**565 OF ALL FIRES
ARE IN HOMES**



**2,26,300 PEOPLE
DIED DUE TO
HOME FIRE**



**90 CRS. WORTH OF
PROPERTY DAMAGED**



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THE CURRENT SOLUTION HUMAN REACTIONS TO FIRE EVACUATION



DIFFICULTY REACHING HIGHER FLOORS OF THE BUILDING



ENDANGER LIFE OF FIREMEN AS WELL AS OCCUPANTS



FREE-FALLING OPTIONS CAN CAUSE INJURY



STAIRS ARE TIRESOME FOR THE FIREFIGHTING TEAM



**FOR A FASTER,
BETTER AND
ADVANCED
SOLUTION
FOR FIRE
EVACUATION**

AVAILABLE FIRE EVACUATION SOLUTIONS

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FASTER AND SAFER SOLUTION

KEY FEATURES

- 
- 18 People Can Be Rescued In One Go
 - 90% Faster Rescue Time
 - 99% Safer Than Available Solutions
 - 100% Friendly For Differently Abled
 - 120 Minutes Fire Rated Body
 - 2 Way Communication with PA System

- 
- Avoid Firemen Fatigue
 - Risk-Free Pathway
 - Customized Cage Design
 - Power Backup
 - IOT - Auto emergency notification
 - Dual Operating Panel
 - Customised As Per The Need

HIGH-RISE BUILDING FIRE EVACUATION LIFT



SERVING THE NATION SINCE 1971

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99+ UNIQUE FEATURES OF SPARTAN FIRE EVACUATION LIFT (SFL)

Spartan Fire Evacuation Lifts comply with the safety norms set by the National Building Code (NBC). They are suitable for all types of construction starting from 3 storey structure to 120 storeys. SFL can be installed on all types of structures like Residential and Commercial High-Rise Buildings upto 400 mtr. height, Hospitals, Hotels, Factories, Refineries etc.



KEY FEATURES

- European Make Drive Complying International Standard
- Heavy Duty Guide Rails B Type
- Four Different Power Sources
- Buffer Spring With Electric Cut Off At Bottom
- Jerkless Back Up System Supported
- Manual Lowering Is Possible
- Decorative Design For Aesthetic
- 30 Min Battery Back Up
- Exhaust Fan Provision In Machine



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THE EVACUATION CABINET OF SPARTAN FIRE EVACUATION LIFT - EXTERNAL

CABIN of the Spartan Fire Evacuation Lift is equipped with 2 hours fire rated and insulated panels / glass that resist the fire and heat to enter inside the cage along with following features.



KEY FEATURES

- ① Door Operator With VVVF Frequency Controller With Motor For Higher Accuracy
- ① Unique Bend Design Of Door And Fitment Between Cabin Enclosure Panel Resist Fire & Smoke From Entering Into Cabin
- ① Decorative Design Enhances Aesthetic Of The Building
- ① Transparent Fire Rated Panel On The Door Of Size 150mm x 600mm Provided As per CFO's Guidelines
- ① Sheetal Metal Panel Made Of SS 304 Which Gives Protection Against Corrosion
- ① All Four Side Of The Cabin Door Can Be Provided As Per Customer Requirement
- ① 2 hour fire rated door with vision panel tested as per BS 476 part (20 & 22) at Central Building Research Institute (CBRI)



THE EVACUATION CABINET OF SPARTAN FIRE EVACUATION LIFT - INTERNAL

Spartan Fire Evacuation Lift is equipped with an interior which is fire proof, smoke proof and comes with accessories like sand pipe and oxygen cylinder.

- Heat Resistance Ceramic Wool Sandwich Between Top & Bottom SEMIS Panels.
- Exhaust Fan Help To Remove Smoke From The Cabin And Save Passengers From Suffocation.
- Flooring Equipped With Grip Design To Avoid Skidding.
- Every Cabins Comes With Sand pipe And An Oxygen Cylinder.
- Air Sterilizer Provided For Disinfection And Purification Of Air Inside Cabin.



- Aid Firemen To Reach Affected Floor Without Fatigue.
- Firemen Can Carry All Their Equipments.
- Almost 90% Time Is Reduced To Reach The Floors.
- Conserve Energy Of Firemen Which They Can Use For Saving Lives.
- Avoiding Staircase Drastically Reduces Risk Of Firemen's Lives.



- 18 People Can Be Rescued At A Time.
- Senior Citizen And Kids Can Be Easily Evacuated.
- Handicapped And Patients Can Be Evacuated With Ease.
- Providing Safe Passage In Case Of Fire Emergency.



MID-LANDING IN SPARTAN FIRE EVACUATION LIFT

Mid-landing is the space between two floors where fire lift door opens for the people to be rescued. This midlanding area benefits in several ways, following are it's key benefits.

KEY BENEFITS

-  Mid-Landing provide safe passage for victims as well as Firemen to perform the rescue operation.
-  It helps in managing the crowd in a systematic evacuation que.
-  Mid-Landing avoid direct contact with Fire or Smoke as the space is between the 2 floors.
-  Both upper and lower floor people can be managed at 1 mid-landing.



TRUE PARTNER IN FIRE EVACUATION

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FIRE DOOR OF FIRE ESCAPE STAIRS



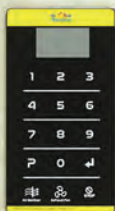
Spartan Fire Evacuation Lift is equipped with 120 minutes fire rated landing door at each floor. These doors are fire and smoke proof and avoid contact between the fire and victims inside the cabinet.

LANDING DOOR



SPARTAN FIRE EVACUATION LIFT

**GROUND
FLOOR**



-  2 hour fire rating certified door by CBRI, As per BS:476 (Part 20 & 22) and IS:3614 (Part-2).
-  2 hour fire rated vision panel (150mm x 600mm) on each leaf.
-  Door operator with Encoder, build with VVVF frequency controller with motor for higher accuracy and smooth opening / closing of the door.
-  Door Detect obstruction through latest cross beam sensor technology and intelligent speed reduction.
-  PM (Permanent Magnet) motor used in door operator which gives 50% more energy efficient than industry standard.
-  Vision Panel help firemen to see situation on the floor before stepping out from cabin.

Firemen Switch

Firemen / rescuer can take lift into his control by operating Firemen switch.

2 Way Communication

Inbuilt button in LOP and COP enabled occupant to communicate with lift operator and Vice Versa in emergency.



Change Over Switch

Separate change over switch provided to connect the "Fire Evacuation Lift" to the external DG set.

Secondary COP

In the fire emergency people can be evacuated by firemen / rescuer without entering in the risk area.

Lift Operating Panel

It is made of high quality polycarbonate sheet with SS304 mirror finish border. It has inbuilt 2 way calling system.

FIRE DOOR OF FIRE ESCAPE STAIRS

Spartan Fire Evacuation Lift is equipped on every mid-landing with a fire resistance door of 2hrs rating. These doors have access to the staircase and protect them from smoke with its 2 hrs fire resistance.

FIRE ESCAPE DOOR

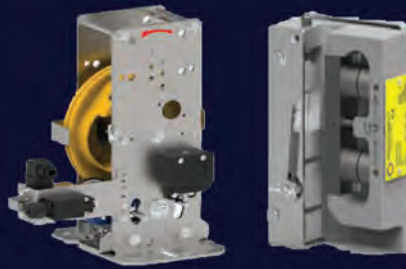


-  Fire Rated Rectangular window of size 300mm x 600mm (1'x2') provided as per CFO's guidelines.
-  120 minutes fire rated door will be provided as a escape door.
-  Door will be provided at each floor for fire protection as well as for safety of occupants.
-  These landing doors are also smoke proof, it prevents smoke from entering into the lift shaft.
-  Auto door closer provided for each escape door.
-  Fire rated lock, hinges & other accessories used in door.

OVER 50 TECHNICAL FEATURES OF SPARTAN FIRE EVACUATION LIFT



Centrifugal Brake



- European make speed governor with bidirectional function.
- Safety gear activation in full compliance with the lift safety regulations:
EN 81-20: 2014 - EN 81-50: 2014 - EN 21-50: 2018.

**SAFETY TESTED
GUARANTEED**



Traction Machine With Manual Lowering

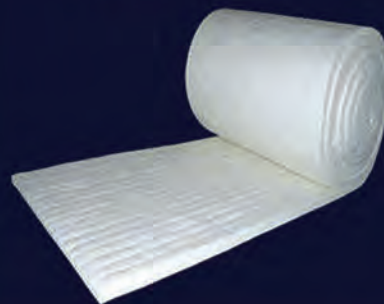


- European make traction machine with inbuilt cooling fans keeps machine cool in the heavy use.
- Brake levers & remote control for emergency operations available.

**SAFETY TESTED
GUARANTEED**



Ceramic Wool



- Heat resistant ceramic wool is sandwiched between top and bottom SS 304 panels.
- This prevents fire to reach inside the cabinet.

**SAFETY TESTED
GUARANTEED**



Oil Buffers



- Oil buffers are designed for both car and counterweights come with limit switches and rope detectors which meet the IS 14665 and IS 15259 standard.

**SAFETY TESTED
GUARANTEED**

OVER 50 TECHNICAL FEATURES OF SPARTAN FIRE EVACUATION LIFT



Jerk Less Backup System



This system removes the jerk and darkness instantaneously in the event of power failure.



Jerkless system will ensure smooth and easy operating conditions.



Wire Rope



This special Elevator hoisting ropes come with close dimensional tolerance to facilitate the jerk-free movement of



Emergency Trap Door



Emergency trap door is provided as it is important for rescue of trapped occupant/firemen from outside or self rescue from inside the car.



Control System

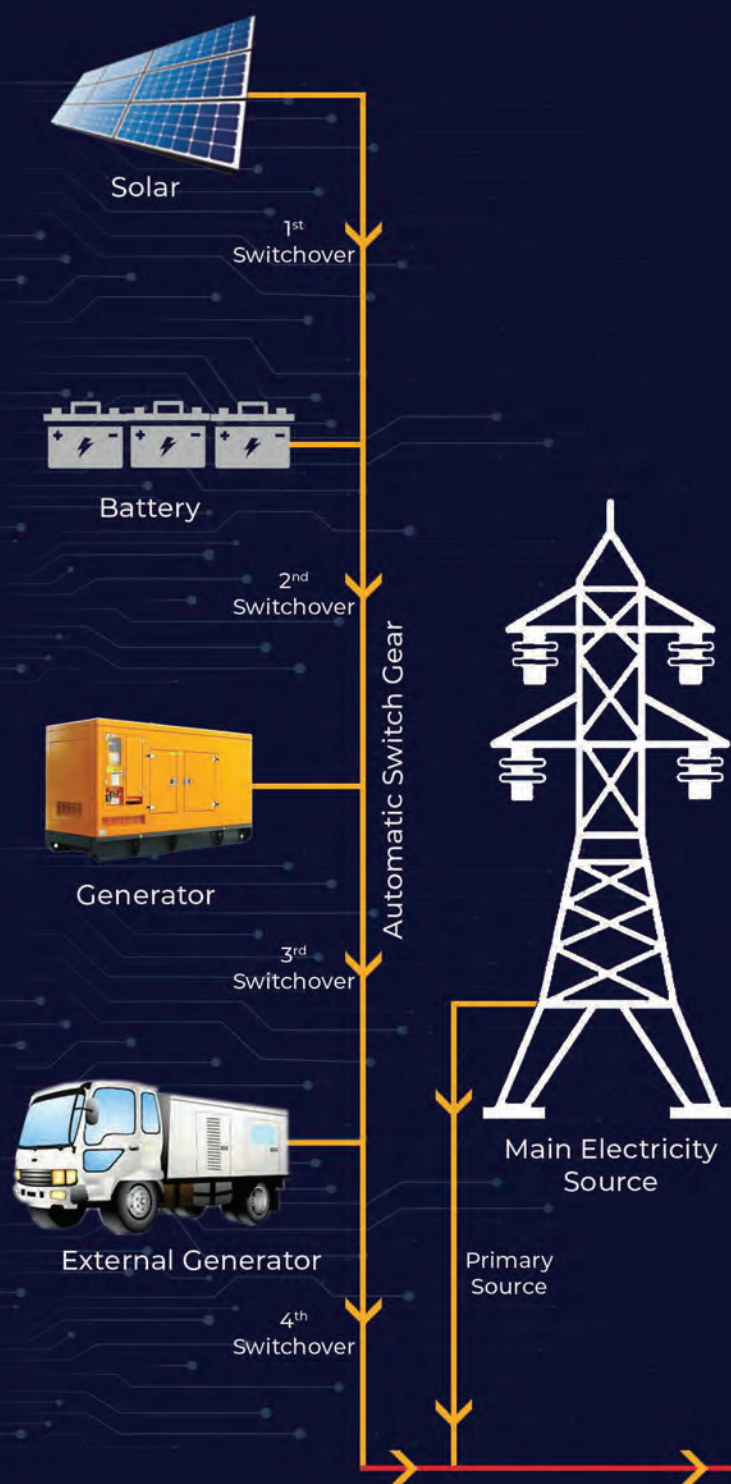


Integrated controller intelligent elevator control system that integrates drive technology, network communications technology together. And organically integrates the elevator drive, control and management, improving the product safety and reliability.

POWER SUPPLY IN SPARTAN FIRE EVACUATION LIFT

The power supply for Spartan Fire Evacuation Lift comes with an automatic switch gear to switch power supply between 4 power sources, ensuring no interruptions.

POWER SUPPLY AUTOMATIC CHANGEOVER SYSTEM



**SPARTAN FIRE EVACUATION LIFT
A MUST FOR HIGH-RISE BUILDING**

COMMUNICATION IN SPARTAN FIRE EVACUATION LIFT



The Spartan Fire Evacuation Lift incorporates a diverse range of communication channels, including IOT connectivity, SMS capability, fire alarm integration, and two-way communication through a PA system. These features enable effective and reliable communication during emergency situations.

MULTI-WAY COMMUNICATIONS CHANNELS



IOT (Internet of Things) Based Control Panel

Emergency Response System



SMS Trigger

- Auto-Notifications Through SMS To Nearest Fire Team In Case Of Fire
- SMS Notification to Security and Property Management Team (PMT)
- Notification to Society Residents
- Notification to Spartan Quick Response Team



Fire Alarm

- Fire alarm system of the building will trigger the mass message, wired connection from fire alarm to the SFL control panel.



Two-Way Communication

- Audio type two way communication. A person standing at any floor can communicate to lift operator through this system.
- Every floor & inside the lift cabin there is speaker-mic device with communication button, pressing which person standing at floor can communicate with lift operator & vice versa.



PA System

- Equipped with Personal Announcement system to make people aware about the fire situation



Siren

- Every Spartan Fire Evacuation Lift is installed with a siren on top with a high frequency sound for people to notice its movement

Preventive Maintenance System



User can check following data through mobile.

- Total Operating Hours
- Fault History
- Main Power supply status
- Last servicing date and next servicing

100+ CERTIFICATIONS OF SPARTAN FIRE EVACUATION LIFT



We take pride in receiving approvals from esteemed organizations for our products, and we remain committed to pursuing additional accreditations as part of our ongoing efforts.

- CE certified by reputed certification agency which has accreditation from IABCBL
- 2hrs fire rated landing door certificated from CBRI As per BS:476 and IS:3614
- 2hrs fire rated cabin panel certificated from NABL lab As per BS:476 and IS:3614
- ISO 9001:2015 Certified
- ISO 14001:2015 Certified
- IOHSAS 18001:2007 Certified
- CE certified traction machine and safety governor
- CE Certified electrical components
- Quality certificates for all Sub assemblies components



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EXPERIENCE THE FUTURE OF FIRE EVACUATION



Equipped With
Firefighting
Apparatus



COP
Car Operating
panel



Outdoor
Control Panel



Emergency Trap
Door To Rescue
From Outside.



16 to 18
people capacity



Avoid Firemen
Fatigue

SPARTAN FIRE EVACUATION LIFT

AWARDS & RECOGNITION

Considering various initiatives carried out by Spartan at their factory, it truly deserves accolades for winning number of awards for their manufacturing excellence. The awards include...

- Saavali Puraskar From Governor, Maharashtra Hon. Shri. Bhagat Singh Koshyari.
- 'Great Entrepreneur Of India Award' By 'Indian Organisation For Commerce & Industry' New Delhi
- 'Brand Of The Year In Plant & Construction Machinery' By Realty +
- 'MD of the Year Innovative Building & Construction Equipments' By Global Real Estate Congress & ET NOW
- 'Top SME 100 Award' By SME Chamber Of Commerce
- 'Merit Award' – Best Team In Quality Concepts – Day 2
- 'Innovation Award 2019' Category: Vehicles & Ancillary Equipment Fire India 2019
- 'Innovation Case Study Winner Award' By Quality Circle Forum Of India Mumbai Chapter
- 'Best Success Story Award' Of 'Entrepreneur Gurukul' from SMM- ART Consultancy
- "Top 200 MSMEs In India" By Skoch Group
- 'Excellence In Operations Award' By 'Manufacturing Today' For Our Factory
- 'Bharat Vibhushan Samman Puraskar Award' By Global Achievers Foundation,
- 'Golden Citizen Of India Award' For Outstanding Achievements Presented To Dr. Vikram Mehta
- 'Vishwakarma Award 2015' For 'Best Professionally Managed Company' from CIDC In New Delhi
- 'Sarvottam Manufacturer Of Rebar Cut & Bend Machines And Suspended Platforms' By Builders Association of India
- 'Global Achievers Award' For Excellence In Construction Machinery
- International Trade Award For 'Construction Machinery Exports'
- 'Power Building Brands Awards' For 'Machineries & Equipment' By Realty Plus
- 'Business Excellence Award' presented To Dr. Vikram Mehta from 'All India
- 'Outstanding Company In MHEs(Material Handling Equipments)' By EPC World
- Sarvottam Manufacturer Of Passenger & Material Hoist In Dubai By 'Builders Association Of India'
- 'India's Greatest Brands 2017-18 Pride Of the Nation Award' By Asia One & PWC (Price Water House Coopers)
- 'Jewel Of India Award' For Outstanding Achievements By IITEM



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SPARTAN FIRE EVACUATION LIFT - VARIANTS

Features	Unit	Cap 1 ton, 14 person			Cap 1.5 ton, 22 person		
Installation Height	m	120	180	240	120	180	240
Lift Speed	mps	2	3	4	2	3	4
Car Guide rail	-	T89/B	T114/B	T114/B	T114/B	T127-1/B	127-1/B
Counter Wt Guide rail	-	T89/B	T89/B	T89/B	T89/B	T89/B	T89/B
Car size(Width x Depth)	mm	1600 x 1400	2100 x 1300	2100 x 1300	2400 x 1600	2400 x 1600	2400 x 1600
Liftshaft size(Width x Depth)	mm	2300 x 2300	2800 x 2200	2900 x 2300	3000 x 2400	3100 x 2500	3200 x 2600
Pit Depth	mm	2200	2900	3400	2200	2900	3400
Overhead	mm	5200	5600	6200	5200	5600	6200
LMR size(W x L x H)	mm	2300 x 4000 x 2800	2800 x 4000 x 2800	2900 x 4000 x 2800	3000 x 4000 x 2800	3100 x 4000 x 2800	3200 x 4000 x 2800
Car Door Size clear opening (W x H)	mm	800 x 2000	800 x 2000	800 x 2000	1000 x 2000	1000 x 2000	1000 x 2000
Landing Door Size clear opening (W x H)	mm	800 x 2000	800 x 2000	800 x 2000	1000 x 2000	1000 x 2000	1000 x 2000
Landing Door Wall cutout Size (W x H)	mm	1000 x 2150	1000 x 2150	1000 x 2150	1200 x 2150	1200 x 2150	1200 x 2150
Oil Buffer	Stroke, mm	275mm	700mm	1100mm	275mm	700mm	1100mm
	Max Rated load, kg	4545	8330	8330	4545	8330	8330
	Ht, mm	760	1710	2700	760	1710	2700
Roller Guide Shoes	Normal Load, N	1200	1200	1200	1800	1800	2000
Progressive Safety Gears	Max Rated load, kg	6000	5500	5500	6000	5500	5500
Overspeed Governor	Rope dia, mm	8	8	8	8	8	8
	Tripping speed, m/s	2.5	3.6	4.8	2.5	3.6	4.8
Machines	Output Power, kW	26.3	30.2	35.5	28.2	32.5	39.8
Traction Rope	Rope dia, mm	10	10	10	10	10	10
	No of Rope	6	6	6	6	6	6

CHOOSE FROM THE BEST IN THE CLASS

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WHY SPARTAN?



Spartan Fire Evacuation Lifts are equipped with state-of-the-art fire-resistant features, advanced communication systems and rigorous safety measures, ensuring the highest level of protection during fire emergencies.

ABOUT SPARTAN

 Spartan's State-of-the-Art manufacturing facility at Atgaon on Mumbai-Nashik highway is fully equipped with world class equipment to manufacture an array of construction equipment & Fire Evacuation Lifts.

 It is spread across 5 acres and 1 lac Sq.ft. build-up Shed & Office. The production facility covers Fabrication, Production Assembly, Testing, R&D, Design & Development, Spares management and dispatches.

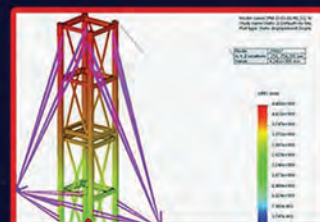


RESEARCH & DEVELOPEMENT

 Spartan Design & Development team consists of 20+ dedicated professionals with expertise in Engineering Design & Development.

 Exhaustive Research is carried out for design of fire rated wall panels & other static & dynamic parts of fire evacuation device as per worldwide accepted standards.

 Our design team uses SolidWorks for 3d solid model design, static & dynamic analysis (FEA) of machine components & documentation. This ensures strength & reliability of all components & thereby gives the customer a peace of mind.



LEGACY THAT SPEAKS FOR ITSELF

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WHY SPARTAN?

Spartan India offers 24/7 customer care, maintenance contracts and onsite training for your peace of mind.

CUSTOMER CARE

-  We have well trained team of technicians having 10-20 years of rich hands-on experience with leading construction companies.
-  We have experts from both mechanical & electrical background at each location to serve the customers 24x7.
-  We have an in-house training facility to impart training on safe usage and maintenance of machines to our engineers and operators.



Quick Response



On-Call Support



Expert on-call

PREVENTIVE MAINTENANCE CONTRACTS (PMC)

-  During PMC our experts check customer's machines, rectify minor problems and suggest how to keep machine healthy and fit for operation. As a goodwill gesture it is free of cost. PMC assures machine's longer life and prevents any breakdown well in time.



ANNUAL MAINTENANCE CONTRACTS (AMC)

-  Post installation every project is monitored by Spartan expert engineers and technical team under its Annual Maintenance Contract. We ensure zero break-downs and 24x7 technical support.



PMC Audit



Technical Audit



System Checks

ONSITE TRAINING & DEVELOPMENT

-  Our Customer Delight department helps you train your team on site.
-  We train client team about technical solutions for various issues.
-  From generic troubleshoot to a safety audit of machines and all other things that are important to keep the machines in best condition is part of this training module.



PERSONALISED CUSTOMER CARE

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Door Fire testing at CBRI

-  Landing Door of Spartan Fire Evacuation lift is tested at CBRI for 2 hour fire rating As per BS:476, (Part 20 & 22), IS:3641 (Part-2) – 1992, Test criteria Stability and Integrity.



Cabin Panel testing at NABL LAB

-  Cabin panels of Spartan Fire Evacuation lift is tested at NABL Lab for 2 hour fire rating As per BS:476, (Part 20 & 22), IS:3641 (Part-2) – 1992, Test criteria Stability, Integrity and Insulation.



Door Fire testing at NABL LAB

-  Landing Door of Spartan Fire Evacuation lift is tested at NABL Lab for 2 hour fire rating As per EN81-58:2018, Test criteria Stability and Integrity.



FIRE EVACUATION SOLUTION FOR ALL

Apart from residential towers, Spartan Fire Evacuation Lifts can be fitted in hospitals, refineries, hotels, factories, and in many more such vertical constructs. Since the likelihood of fires spreading vertically is higher, people are at a greater risk of being caught in a fire related mishap. This calls for a speedy evacuation solution that saves lives and valuable assets, while helping the firemen get to the correct floor without having to use the stairwell.

Residential Buildings

- Vertical
- Opening
- Motorize
- Hard Door
- For
- For
- Comfort.



Hotels

- Vertical
- Opening
- Motorize
- Hard Door
- For
- For
- Comfort.



Commercial Building

- Vertical
- Opening
- Motorize
- Hard Door
- For
- For
- Comfort.



**SPARTAN FIRE EVACUATION LIFT
A MUST FOR HIGH-RISE BUILDING**

Hospitals

- Vertical
- Opening
- Motorize
- Hard Door
- For
- For
- Comfort.



Corporate Buildings

- Vertical
- Opening
- Motorize
- Hard Door
- For
- For



Factories

- Vertical
- Opening
- Motorize
- Hard Door
- For
- For



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Spartan
FIRE EVACUATION LIFT

Spartan
FIRE EVACUATION LIFT

SPARTAN FIRE EVACUATION LIFT

***HEROES IN THE HEART
OF THE FLAMES***

**CARRYING HOPE AND COURAGE
IN FIRE EVACUATION LIFT**

**INNOVATOR OF FIRE
EVACUATION IN INDIA**



DR. VIKRAM MEHTA, Managing Director Spartan Engineering Industries Pvt. Ltd.

Dr. Vikram Mehta is a visionary entrepreneur, innovator, and a renowned production engineer in the construction equipment industry. Fondly known as 'Maharashtra's Fire Man', he created his brain child, Spartan, from the ground up and, today, it has grown exponentially, and has a superior foothold in 25 countries.

A dynamic brand like Spartan calls for an equally dynamic visionary leader and Spartan has found that leader in Dr. Vikram Mehta - a young & dynamic second generation entrepreneur. He is a Wharton University alumnus who earned his MBA from SP Jain.

«With a mission to save nation from the calamity caused due to fire, which has taken many lives & losses of crores of worth of property, I am determined to install these machines in every high-rise building and hospitals.»

Vikram Mehta
SPREADING HAPPINESS



Dr. Vikram Mehta is truly a face to reckon with in the construction industry. His passionate endeavours within the field and can-do attitude has earned him tremendous respect. He has been honoured with:

- 🏆 Saavali Puraskar' From THE GOVERNOR, MAHARASHTRA Hon. Shri. Bhagat Singh Koshyari.
- 🏆 Glory of India Award for young Entrepreneur.
- 🏆 Bharat Vibhushan Samman Puraskar' from Global Achievers Foundation.
- 🏆 Great Entrepreneur of India Award by Indian Organisation for Commerce & Industry, Delhi.
- 🏆 Jewel of India Award for outstanding achievements by International Institute of Education & Management.
- 🏆 'Global Achievers Award' for Excellence in Construction Machinery.



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FIRE TESTING AND CERTIFICATE (TESTED IN - CBRI)

TEST SCHEDULE 1/1
(Reference No. - FR /0302)

1. Name of the Laboratory	: Fire Research Laboratory CSIR- Central Building Research Institute, Roorkee-247 667
2. Name of the Party	: M/S Spartan Engineering Industries Pvt. Ltd., Spartan House, 1/11, New Tejpal Industrial Estate, Andheri- Kurla Road, Sakinaka, Mumbai-400 072
3. Name of the Test	: Fire Resistance Test
4. Date of Test	: November 24, 2022
5. Ambient Temperature	: 21 °C
6. Heating Conditions	: As per BS:476, (Part 20 & 22), IS:3614(Part-2)-1992
7. Applicability of Test Criteria	: Stability : Yes Integrity : Yes Insulation : No
8. Specimen Details	: S.S. Lift Landing Door with vision panels (Centrally Open) Size Panel Size Clear Opening Height : 2405 mm : 2400 mm Width : 1125 mm (570 mm & 570 mm) : 1100 mm Thickness of glazed vision panel : 6.0 mm thick Schott Pyran glass)
9. Specimen Construction	: As shown in Figure 1 [Drg. No. 1/1 -0302(1)]
10. Door Type	: Uninsulated
11. Door Installation	: Closed in Wall furnace
12. Intended Test Duration	: 120 Min.

Test Results

The data of the test reveals that the SPARTAN lift landing door specimen has been found to be able to withstand standard fire exposure for 120 minutes (One hundred twenty minutes only) with respect to stability and integrity only. (As there is no sustained flaming on the unexposed side and no gap found between the lift door panels as well as between the door panels and door frame during the 120 min of fire exposure)

(Prepared By) (Checked By) (Approved By)
(Sushil Kumar) (Dr. Banti A. Gadam) (Dr. Harpal Singh)

(Technical data provided in this schedule pertains to the specific sample submitted to the Institute and tested. CBRI's name or logo cannot be used for commercial purposes. All procedural, legal, and / or operational matters will be the responsibility of the party using these results. Accepting / Rejecting the results, partly or fully rests with the users agencies.)

अग्नि अनुसंधान प्रयोगशाला
FIRE RESEARCH LABORATORY
सी.एस.आई.आर. - केन्द्रीय भवन अनुसंधान संस्थान
CSIR - Central Building Research Institute
रूड़की - 247 667 (उत्तराखण्ड) भारत/Roorkee - 247 667 (U.K.) INDIA

Note : This original only is valid. Third parties using copies are doing so at their own risk.

eurofins Spectro
Report No. D221100015/D221100016-11

TEST REPORT

Discipline: Mechanical
Group: Building Materials

TEST REPORT FOR FIRE RESISTANCE TEST OF CONSTRUCTION ASSEMBLIES

TEST SPONSOR:
SPARTAN ENGG INDUSTRIES PRIVATE LIMITED

TEST ASSEMBLY:
CABIN PANEL

TEST STANDARDS:
BS 476-20:1987*, Fire tests on building materials and structures - Part 20: Method for determination of the fire resistance of elements of construction (general principles).
*Incorporating Amendment no. 1
BS 476-22:1987; Fire test on building materials and structures - Part 22: Methods for determination of the fire resistance of non-load bearing elements of construction



Analyst Signature: 
Legal Entity: Spectro Analytical Labs Private Limited (Formerly Spectro Analytical Labs Limited), CIN: 1742200199997020006
(part of Eurofins Scientific SE)
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ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory Page 2 of 20

eurofins Spectro
Report No. D221121034/D221121034-11

TEST REPORT

Discipline: Mechanical
Group: Building Materials

TEST REPORT FIRE RESISTANCE TEST OF CONSTRUCTION ASSEMBLIES

Test Assembly:
LANDING DOOR

Test Standards:
EN 81-58:2018 "Safety rules for the construction and installation of lifts. Examination and tests. Part 58: Landing door fire resistance test."



Analyst Signature: 
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SPARTAN'S FIRE EVACUATION LIFT THE RIGHT SOLUTION



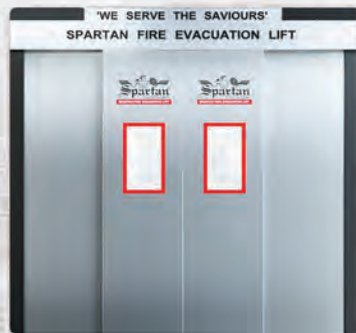
Spartan, the leading national manufacturer of construction hoists, has successfully contributed in the field of disaster management (fire-related) with the development of advanced emergency fire evacuation lifts. Alongside saving occupants of the residential buildings, these lifts aid the rescue operations of firefighters, helping them reach the fire-affected areas in a short span to not only conserve their energy, but also protect them from potential fire hazards.

Its modernistic, hi-tech construction further leverages the potential of the internet of things for a solid emergency response system. Spartan lifts meet the National Building Code's safety requirements, and are suitable for all construction models from 3 storeys all the way up to 120 storey buildings.

Several standout features of Spartan fire evacuation lifts that set them apart from the increasing competition are as follows:



**Customisable
Construction Designs
Evacuation Lift**



**Fire-Proof Panel
Which Stands Fire
Upto 2 Hours**



**Helps Firefighters
Reach Fire Affected
Floors Safely**



**Cabin Designed
With Non-Combustible
Material**



**Trap Door Built
Into The Roof Of The
Emergency Exit**



**Equipped With A
Battery Backup
Of 15-30 Minutes**



**Evacuates 10-18
People Under
Three Minutes**



**Machine
Room Is
Required**



**Manual Lowering
In Case Of Power
Failure**



**Sealed Door Prevents
Smoke From Entering
Inside The Cage**



**Cabins Equipped
With Sandpipe, fire
blanket and first aid kit**



**Provision Of
Fire-Rated Landing
Door On Each Floor**

LEGACY THAT SPEAKS FOR ITSELF

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www.spartanindia.com

FUTURE OF FIRE EVACUATION IS HERE!



**18 People
At One Go**



**2 Hours Fire
Rated Panels**



**Zero - Top Floor
Within 60 Seconds**



**Two Way
Communication
System**



ABOUT SPARTAN

With 50 years of engineering expertise under its belt, Spartan emerges as one of the top construction equipment brands that have played a pivotal role in setting the nation up for developmental success. From roads and flyovers to bridges and buildings, Spartan has had a hand in passionately diving into construction and manufacturing projects that make everyday life simpler for the nation's public at large.



WHO WE ARE:

Spartan Fire Evacuation Lifts

Since our formation in 1971, we have endeavored to gain extensive knowledge and experience in the engineering industry. By 2005, our know-how and expertise propelled us into the field of manufacturing and supplying construction equipment. Soon after, a problem presented itself in the form of fire flare-ups throughout the country that razed mid to high-rise buildings to the ground and claimed innocent lives. Our team of well-accomplished engineers and technicians were determined to find a solution, resulting in the birth of Spartan's Fire Evacuation Lifts (SFL).

We are fortified by our noble vision: to give back to the ecosystem. Taking this forward, we've been in the business of constructing vertical evacuation solutions so that one day every building in the country will be protected in the event of fire outbreaks. This is the need of the hour given the current statistics of nationwide fire cases that claim an alarming number of lives (over 10000 lives every year) even as you read this.

However difficult a task may be, at Spartan we are determined to see it through. We hold our dear customers in high regard and to that end, no obstacle is big enough to come in the way of any project that ameliorates their lives.



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ENCOURAGING WORDS FROM CLIENTS & ASSOCIATES



No words to explain but Spartan Fire Lift (SFL) saved me and my family. It was hassle free evacuation with Spartan on our side. Life is a gift & we need to protect it! Kudos to SFL.

**Mr. Ankit Shah, Lodha
Imperia Powai**

We never thought about it unless it happens with us. Spartan Fire Evacuation Lift is one such solution which can save your life like it saved mine.

**Mr. Jagdish Arora,
Koral Towers, Nahur**

Fire Evacuation such as Spartan Fire Evacuation Lift doesn't just save lives but also reputation of the project and eventually brand.

**Mr. Bhaskar Shiva
Regency Developers**

As an architect, I think it is my responsibility to recommend fire evacuation solution such as Spartan. It saves lives and asset too!

**Mr. Anand Kulkarni
Architect, Navi Mumbai**

It's a true partner of the firefighter in the times of fire evacuation. Helps to reach faster and avoid fatigue for firefighters. A must for every high-rise.

**Mr. Rane, Mumbai
Fire Evacuation Team**

It was one of those moments where we thought it was all over but then Spartan Fire Lift Door opened and we saw an angel (Fireman) who saved all of us felt safe in the lift!

**Ms. Pooja Ronak
Hiranandani, Thane**

I strongly recommend Spartan Fire Evacuation Lift because that's the fastest solution we have currently to evacuate people during fire emergencies.

**Mr. Yogesh Joshi,
Mumbai Architect**

Fire was scary but evacuation was very smooth with Spartan Fire Evacuation Lift. Even the firefighters were at ease since they knew that getting people out won't be a problem.

**Ms. Surekha Thakur
Dosti Reality, Ghatkopar**



CERTIFIED BY



ISO 9001:2015



692116



ISO 14001 : 2015
OHSAS 18001 : 2007
REGISTERED

QUALITY ASSURANCE



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