

Purpose : To guide electrical protection of workers on electrical installation by instructing them about the safe and proper usage of insulating mats to prevent electrocution.

Scope : Insulation mats class 0, Class 1, Class 2, Class 3, Class 4
IEC 61111:2009

Standard :

Instructions:

- Floor should be smooth, flat, rigid & crack-free before installation of matting.
- The mat should be placed directly in front of the electrical installations.
- Use only recommended adhesive to fix the mat in place.
- Exposure to direct sunlight should be avoided
- Selection of rubber matting should be according to the voltage level of electrical equipment & matting to be installed according to IEC 61111:2009 standard as per classes.

CLASS	Maximum Working Voltage	Proof Voltage (V AC)	Withstand Voltage (V AC)
Class 0	1000	5000	10000
Class 1	7500	10000	20000
Class 2	17000	20000	30000
Class 3	26500	30000	40000
Class 4	36000	40000	50000

- Electrical insulation mats should be stored in appropriate bags or containers to prevent damage.
- Don't remove the shipping package of the insulation mats until it is required to install to prevent damages.
- Care should be taken to ensure that matting is not compressed, folded, or stored in proximity to steam pipes, radiators, or other sources of artificial heat or exposed to direct sunlight/artificial light or ozone sources.

Recommendations for Use:

Examination Before Use

Each time before use, the matting should be visually inspected. If the matting is thought to be unsafe, it shall not be used and should be returned for testing or to be destroyed. If the insulating mats are dirty, wash them with soap and water. Dry it with respect to operating temperatures.

In use

Operating temperatures: -40 °C to 55°C. Avoid contact with chemical products. Place them on a clean, smooth floor devoid of aggressive elements for insulation. Position of the feet: The operators' feet must be in the center of the insulating mat.

Periodic inspection

Insulating mats should not be used without having been electrically tested within the previous twelve months preceding, with the exception of class 0. Only visual inspection is required for class 0.

Storage/Transport

Insulated mats should be properly stored to avoid the risk of damage to the insulating material. Do not bend insulating mats. Do not store or use close to excessive heat. Do not expose to direct sunlight for long periods. Storage temperature: 10°C to 21°C.

Disposal

If Rubber matting is damaged or out of service shall be disposed of according to the requirement of local regulations.