



التفتيش الدوري واختبار التوصيلات الكهربائية

PERIODIC INSPECTION AND TESTING OF ELECTRICAL INSTALLATIONS



How can you do the inspection and testing of internal & external Electrical Installations on a periodic basis?

1- Overall Visual condition
Monitoring Report by
Approved electrical contract

2- Electrical Installation
Condition & Testing Report
by Approved electrical
contractor





Following things must be monitored:

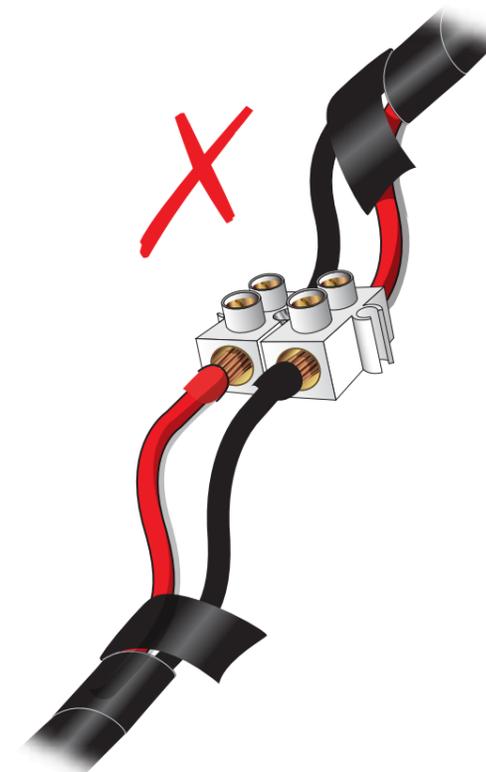
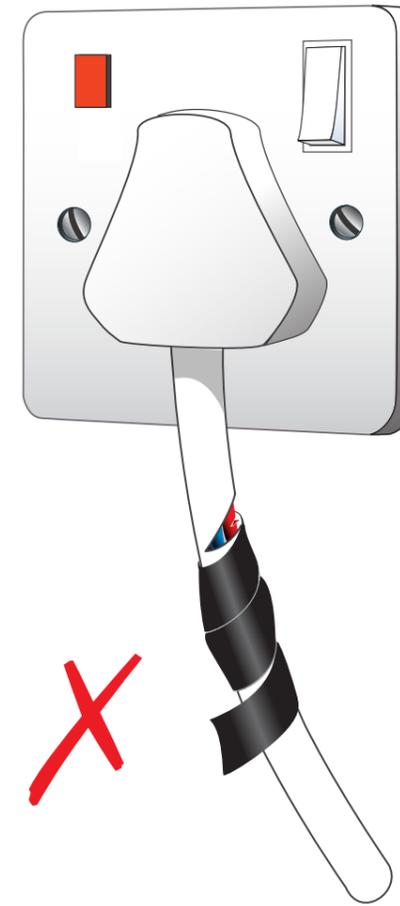
- Loose contacts, conductors insulation damages, chances of water leakage on above/near the panels.
- condition of enclosures, Earth connections
- protection against the direct contacts





Electrical Installation Condition & Testing Report

- Operation of Earth Leakage Devices, Earth electrode resistance, Protection against the Indirect & direct contacts, Continuity of the earth conductors including equipotential bonding conductors, insulation resistance and earth fault loop impedance.
- Above work may only be carried out by Licensed approved contractor.
- The owner must also ensure that any necessary rectification work is carried out with all Reports.
by Approved contractor





Why the Electrical Installation periodic inspection and testing is important?

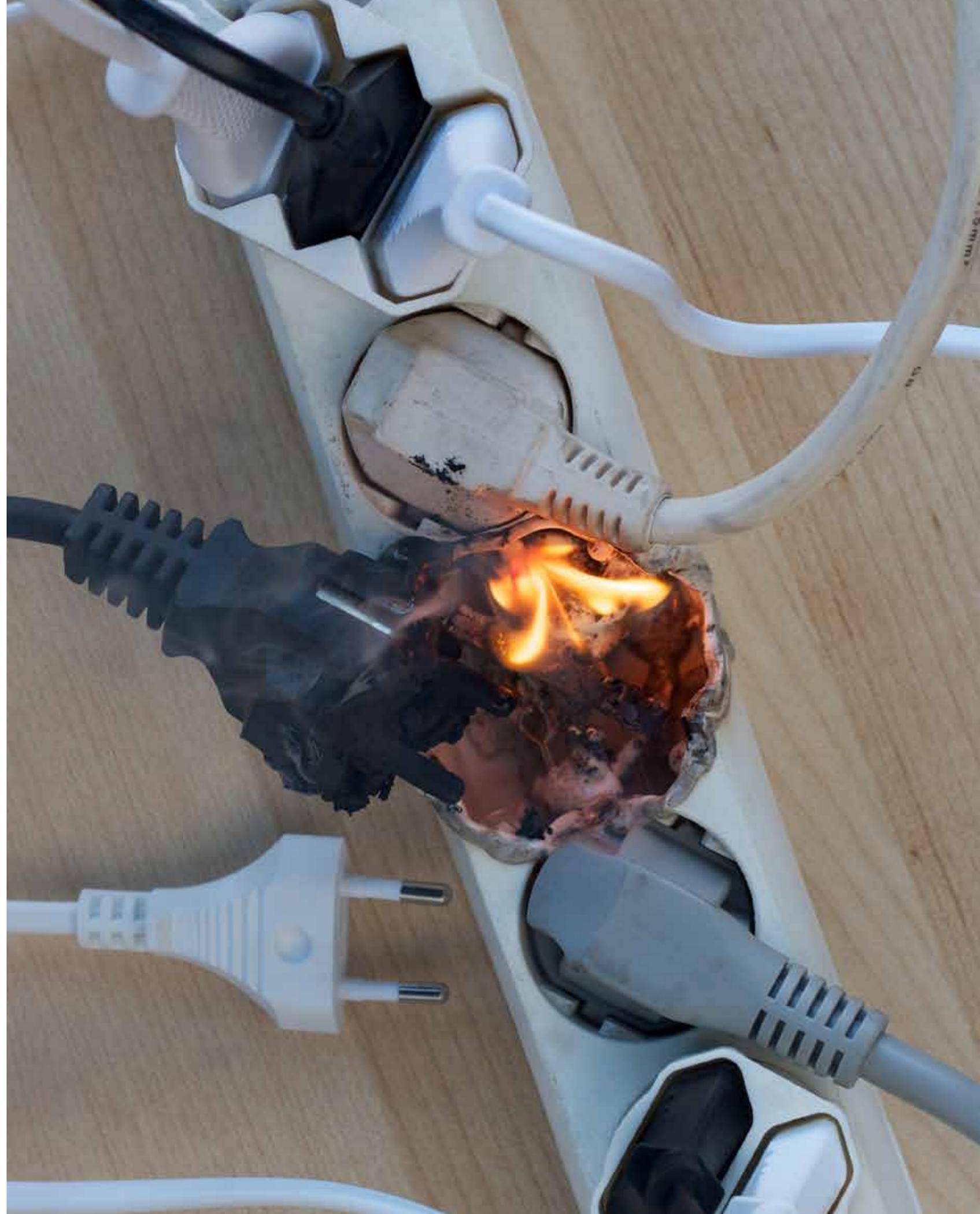
- Risk rate will increase due to the lack of maintenance
- Risk rate and Aging of the Installations would be directly proportional. So we can reduce only by the periodic inspection and testing.





What are the risk, if we are not doing on time periodic electrical installations inspection, testing and maintenance?

- **Fire:-** due to the Overload,short circuit, loose contacts,etc. So breakers must be tested and provide protection against the direct contacts.
- **Electrical Shock:-** due to the earth Leakage . So RCD protection to be provided against the Indirect Contact with required earth electrode resistance,also all the earthing conductors must be connected properly including equipotential bonding conductors.
- **Nuisance tripping,**etc.

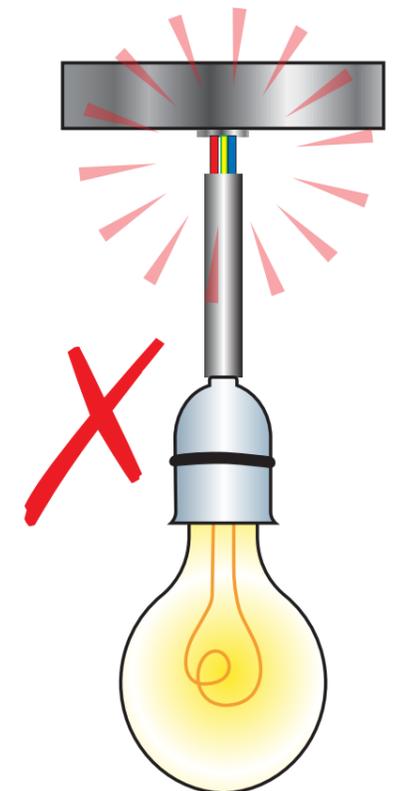
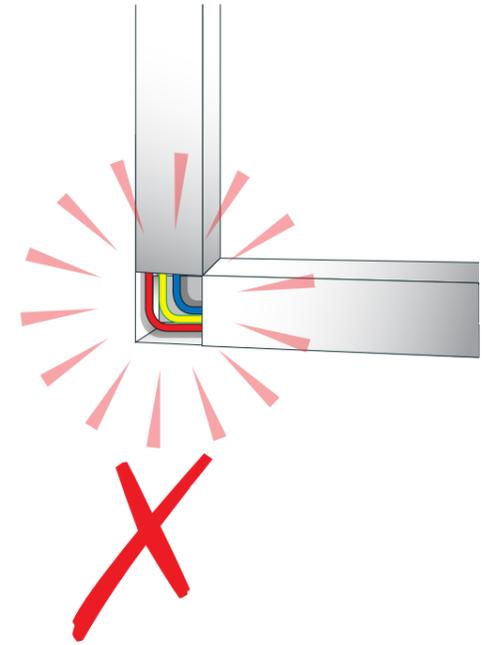
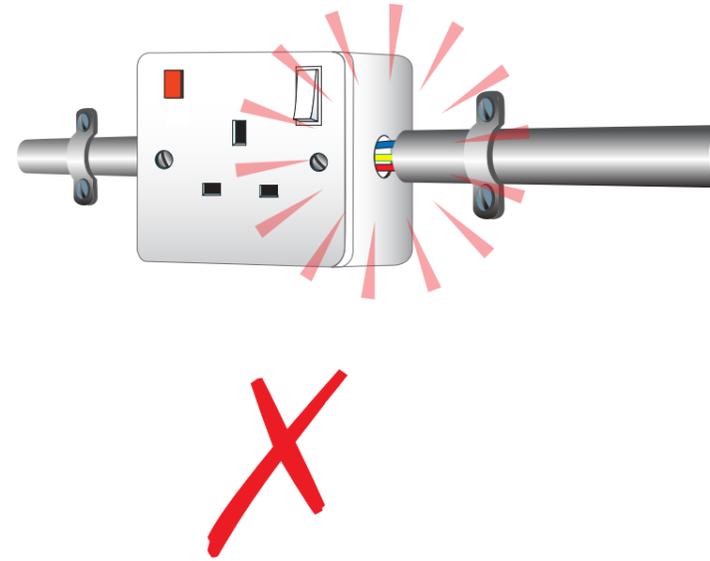




How can you find out the minor problems in the Electrical installations and rectified before it becomes major accidents?

● By the overall Visual condition monitoring with proper corrective and preventive maintenances.

*If you feel any issues on the Electrical Installations, take the action at the earliest and be safe from the high risks.



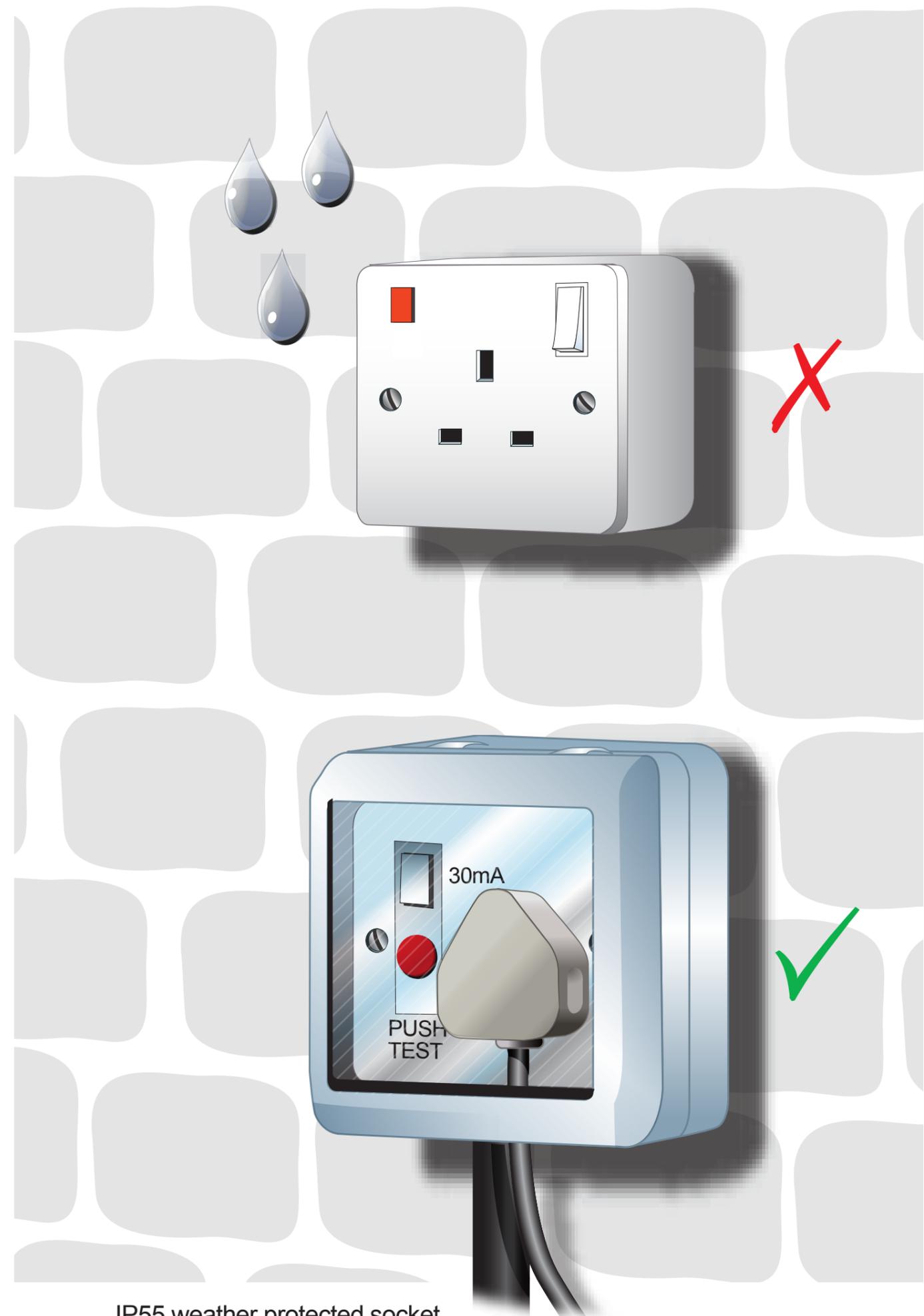


**Schedule of the requirement of
the periodic inspection as per
Regulation & Supervision
Bureau**

| | Internal Electrical Installation | External Electrical Installation |
|--|---|---|
| Domestic | 3 years | 3 years |
| Non-domestic (commercial , industrial , farms,etc) | 2 years | 1 year |
| Premises used by the public (school, hospitals, hotels,malls, parks, tents,mosques) | 1 year | 1 year |
| Special locations (construction sites, swimming pools and fountains, street lighting) | 1 year | 1 year |



**Ensure that outdoor Socket are
as per standards and of weather
proof type**



IP55 weather protected socket
outlet with 30mA RCD



Be sure to test the earth leakage breaker (RCD) by pressing (Test) on the breaker

