

# Electrical Inspection and Testing

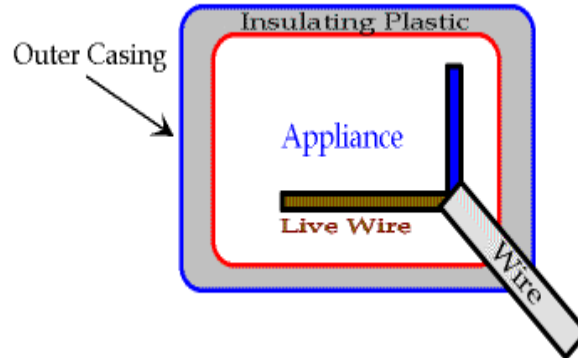
For Low Risk Environments only the following indicates whether or not user checks, visual inspection or electrical testing (PAT) is required and the suggested inspection and testing intervals.

It is easy to determine whether or not a piece of electrical equipment is double insulated (see below); look on the electrical label for a symbol of a square within a square (◻) either printed or embossed on the device.

Equipment / Environment	User Check	Formal Visual Inspection	Combined Inspection and Testing
Battery operated (less than 20 volts)	<b>NO</b>	<b>NO</b>	<b>NO</b>
Extra low voltage (less than 50 volts AC) e.g. telephone equipment, low voltage desk lights.	<b>NO</b>	<b>NO</b>	<b>NO</b>
Information technology: e.g. desk top computer, VDU screens.	<b>NO</b>	<b>YES</b> (2-4 years)	<b>NO</b> if double insulated <b>YES</b> Otherwise (up to 5 years)
Photocopiers, fax machines. NOT hand held. Rarely moved.	<b>NO</b>	<b>YES</b> (2-4 years)	<b>NO</b> if double insulated <b>YES</b> Otherwise (up to 5 years)
Double insulated equipment: NOT hand held. Moved occasionally, e.g. fans, projectors, table lamps.	<b>NO</b>	<b>YES</b> (2-4 years)	<b>NO</b>
Double insulated equipment: hand held e.g. some floor cleaners.	<b>YES</b>	<b>YES</b> (6 months -1 year)	<b>NO</b>
Earthed equipment (class 1) e.g. electric kettles, some floor cleaners.	<b>YES</b>	<b>YES</b> (6 months -1 year)	<b>YES</b> (1 – 2 years)
Cables (leads) & plugs connected to earthed equipment. Extension leads (mains voltage)	<b>YES</b>	<b>YES</b> (6 months - 4 years Depending on type of equipment connected to)	<b>YES</b> (1 – 5 years Depending on type of equipment connected to)

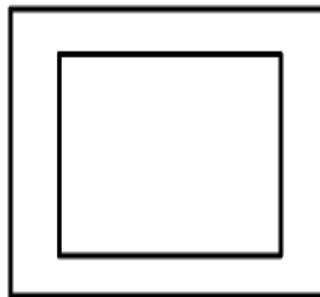
**DOUBLE INSULATION OF ELECTRICAL APPLIANCES**

An appliance which is double insulated has the whole of the inside contained in plastic, underneath an outer casing. If anything goes wrong with the appliance, no Live conductor can touch the outer casing because of the insulating plastic.



Appliances which are double insulated include electric drills and hairdryers.

The symbol for double insulation is shown below.



You will see this symbol printed on the appliance which is double insulated.

**Double insulated appliances DO NOT need to be PAT tested.**