

7.4.5 Class II Insulation

A 'Class II' or double-insulated electrical appliance is one which has been designed in such a way that it does not require a safety connection to electrical earth (ground).

The basic requirement is that no single failure can result in dangerous voltage becoming exposed so that it might cause an electric shock and that this is achieved without relying on an earthed metal casing. This is usually achieved at least in part by having two layers of insulating material surrounding live parts or by using reinforced insulation.

In Europe, a double-insulated appliance must be labelled Class II, double-insulated, or bear the double-insulation symbol (a square inside another square).



class II (double insulation)

Figure 108
Logo for Class II insulation products.