

# IK Rating

The IK Code (or **Impact Protection Rating**) consists of the letters IK followed by two digits. As defined in international standard IEC 62262 and IEC 60068-2-75, it classifies the degrees of protection provided against Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts. This standard specifies the way enclosures should be mounted when tests are carried out, the atmospheric conditions that should prevail, the number of impacts and their (even) distribution, and the size, style, material, dimensions etc. of the various types of hammer designed to produce the energy levels required.

The below table defines the IK codes and the impact protection tests that they withstand based on the tests carried out according to IEC 62262

IK Code	Test and Level of Protection Achieved
IK00	Not protected
IK01	Protected against 0.14 joules impact. Equivalent to impact of 0.25kg mass dropped from 56mm above impacted surface
IK02	Protected against 0.2 joules impact. Equivalent to impact of 0.25kg mass dropped from 80 mm above impacted surface.
IK03	Protected against 0.35 joules impact. Equivalent to impact of 0.25kg mass dropped from 140 mm above impacted surface.
IK04	Protected against 0.5 joules impact. Equivalent to impact of 0.25kg mass dropped from 200 mm above impacted surface.
IK05	Protected against 0.7 joules impact. Equivalent to impact of 0.25kg mass dropped from 280 mm above impacted surface.
IK06	Protected against 1 joules impact. Equivalent to impact of 0.25kg mass dropped from 400 mm above impacted surface.

IK07	Protected against 2 joules impact. Equivalent to impact of 0.5kg mass dropped from 400 mm above impacted surface.
IK08	Protected against 5 joules impact. Equivalent to impact of 1.7kg mass dropped from 300 mm above impacted surface.
IK09	Protected against 10 joules impact. Equivalent to impact of 5kg mass dropped from 200 mm above impacted surface.
IK10	Protected against 20 joules impact. Equivalent to impact of 5kg mass dropped from 400 mm above impacted surface.

On Extreme products requiring even greater protection, like those used in custodial or public spaces the following codes can also be used. It should be noted that whilst EN60068-2 does not allocate codes above IK10 the following have been extrapolated and designed in according with this testing.

IK11	Protected against 35 joules impact. Equivalent to impact of 10kg mass dropped from 350mm above impacted surface.
IK12	Protected against 50 joules impact. Equivalent to impact of 10kg mass dropped from 500mm above impacted surface.
IK13	Protected against 75 joules impact. Equivalent to impact of 10kg mass dropped from 750mm above impacted surface.
IK14	Protected against 100 joules impact. Equivalent to impact of 10kg mass dropped from 1000mm above impacted surface.
IK15	Protected against 125 joules impact. Equivalent to impact of 10kg mass dropped from 1250mm above impacted surface.
IK16	Protected against 150 joules impact. Equivalent to impact of 10kg mass dropped from 1550mm above impacted surface.