

IK Ratings

impact protection

The 'IK' code, when applied to a luminaire, indicates its degree of protection against harmful mechanical impact. It is similar to the IP rating, in that it consists of the letters IK followed by two digits, which indicate the impact resistance. The digits run from '00' (no protection) up to '10' which offers protection to an impact of 20 Joules, tested using a pendulum hammer. Where a higher impact protection is required, an impact of 50 Joules is usually used, although there is no IK standard which covers this.

A Joule is the unit of work energy devised by the Système Internationale Organisation.

$$1\text{J} = \text{IN} \times 1\text{m}$$

A Newton is the unit of force that causes an acceleration of 1m/s/s to a mass of 1kg.

Relation between IK Code and Impact Energy

IK Code	Impact energy in Joules
IK00	–
IK01	0.14
IK02	0.20
IK03	0.35
IK04	0.50
IK05	0.70
IK06	1
IK07	2
IK08	5
IK09	10
IK10	20