
























THE IP AND IK CLASSIFICATIONS

Ingress protection class of enclosures is given in the form of IP classification, a two digit coding which is shown below. Fibox has tested the enclosures according to IEC 529 or the newer EN 60529 4:1992. The latter requires the second digit to be tested from class 6 upwards separately to each level of class, thus the double marking IP 66 / IP 67 indicates that the actual tests have been made for both levels.

The European standard for empty enclosures, EN 50298:98 includes the IK impact test. This test is described in EN 50102, and as Fibox enclosures are tested to EN 50298:98, the data for impact resistance are available as well.

FIRST NUMBER Protection against solid objects		SECOND NUMBER Protection against liquids		IK CODE Protection against mechanical impacts	
IP	TEST	IP	TEST	IK	TEST
0	 no protection	0	 no protection	00	 no protection
1	 protected against solid objects up to 50 mm e.g. accidental touch by hands.	1	 protected against vertically falling drops of water.	01-05	 impact < 1 joule
2	 protected against solid objects up to 12 mm e.g. fingers.	2	 protected against direct sprays of water up to 15° from the vertical.	06	 500 g 20 cm impact 1 joule
3	 protected against solid objects over 2.5 mm (tools+ small wires).	3	 protected against sprays to 60° from the vertical.	07	 500 g 40 cm impact 2 joule
4	 protected against solid objects over 1mm (tools+ small wires).	4	 protected against water sprayed from all directions - limited ingress permitted.	08	 1.7 kg 29.5 cm impact 5 joule
5	 protected against dust - limited ingress permitted (no harmful deposit).	5	 protected against low pressure jets of water from all directions - limited ingress permitted.	09	 5 kg 20 cm impact 10 joule
6	 totally protected against dust.	6	 protected against strong jets of water e.g. for use on shipdecks - limited ingress permitted.	10	 5 kg 40 cm impact 20 joule
		7	 15 cm min 1 m protected against the affects of immersion between 15 cm and 1 m.		
		8	 1 m protected against long periods of immersion under pressure.		