

Ingress protection

Where apparatus is used in dirty or wet conditions the resistance to ingress contributes to reliability and safety in that electrical faults within the apparatus are often the result of water ingress.

Where our products are concerned, the latest edition of the appropriate standards are EN 60529 (IEC 529) and BS EN 60598 (IEC 598).

The methods of test, duration and criteria of acceptance vary considerably between the standards. The definitions of the IP code are summarised in the table opposite. It will be noted that many luminaires have both IP66 and IP67 ratings which is because the IP66 test can be more severe than IP67 for some constructions. Where IP66 is also quoted it is usually on the basis of independent test reports.

Contact Whitecroft Lighting Limited for further details.



Definition of Ingress Protection

FOREIGN BODIES		LIQUIDS	
FIRST DIGIT NUMERAL		SECOND DIGIT NUMERAL	
0	No protection	0	No protection
1	Protection against ingress of large solid foreign bodies	1	Protection against drops of condensed water
2	Protection against ingress of medium sized solid foreign bodies	2	Protection against drops of liquid falling at any angle up to 15° from vertical
3	Protection against ingress of small solid foreign bodies greater in thickness than 2.5mm	3	Protection against rain falling at any angle up to 60° from the vertical
4	Protection against ingress of small solid foreign bodies greater in thickness than 1mm	4	Protection against splashing. Liquid splashed from any direction shall have no harmful effect
5	Protection against the ingress of dust in an amount sufficient to interfere with satisfactory operation of the enclosed equipment	5	Protection against water projected by nozzle from any direction
6	Complete protection against ingress of dust	6	Protection against conditions on ships decks
		7	Protection against immersion in water
		8	Protection against indefinite immersion in water. Tests to be agreed between supplier and customer.