

7.4 International used Standards and Safety Trade Marks

7.4.1 Operating Conditions (IP-Rating)

The International Protection (IP) system classifies luminaires according to the degree of protection provided against the ingress of foreign bodies, dust and moisture. The degree of protection is indicated by the letters IP followed by two numbers. The first number indicates the degree of protection against the ingress of foreign bodies and dust. The second indicates the protection against the ingress of moisture. Table 12 shows the degree of protection indicated by each number. Using Table 12 it can be seen that as an example a luminaire classified as IP55 is dust protected and able to withstand water jets. See Table 13 for more information about IP rating.

First number	Degree of protection	Second number	Degree of protection
0	Not protected	0	Not protected
1	Protected against solid objects greater than 50 mm	1	Protected against dripping water
2	Protected against solid objects greater than 12 mm	2	Protected against dripping water when tilted up to 15 degrees
3	Protected against solid objects greater than 2.5 mm	3	Protected against spraying water
4	Protected against solid objects greater than 1.0 mm	4	Protected against splashing
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against heavy seas
		7	Protected against the effects of immersion
		8	Protected against submersion to a specified depth

Table 12
IP classification of luminaires according to the degree of protection against foreign bodies, dust and moisture.