

RESISTANCE INDEX

IP RATING

1st figure:

Protection against penetration by solid objects and contact with live parts.

2nd figure: Protection against liquid penetration.

IPO.



No protection

IP.O



No protection

IP1.



Protected against solid bodies larger than 50 mm (e.g. hand contact)

F. I

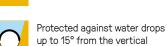
Protected against vertical water drops

IP2.



Protected against solid bodies larger than 12.5 mm (e.g. finger)

P.2



IP3.



Protected against solid bodies larger than 2.5 mm (e.g. tools, wires)

IP.3



Protected against rain up to 60° from the vertical

IP4.



Protected against solid bodies larger than 1 mm (e.g. fine tools, nails)

IP.5



Protected against water splashing from any directions

IP5.



Protected against dust

IP.6



Protected against low-pressure water jets from any direction using a lance

P 6



Totally protected against dust

r.0



Protected against low-pressure water jets from any direction using a lance

IP.7



Protected against the effects of immersion

IP.8



Equipment submersible under specified conditions



RESISTANCE INDEX

VK® ratings

VK® vandal resistance rating

VK® rating	1 st position	2 nd position	(3 rd position)
0	< 10 joules	no protection	no protection
1	10 joules ^(*)	standard fastenings	flame resistance
2	20 joules (*)	vandal-resistant fastenings (or secure closure)	graffiti resistance
3	50 joules (*)	rip-out resistant	increased UV resistance (tropicalization)
4	80 joules	rip-out-resistant + standard fastenings	resistance to marine environment
5	100 joules	rip-out-resistant + vandal-resistant fastenings	-
6	120 joules	anti-ligature + vandal-resistant fastenings	-
7	150 joules	-	-

By virtue of their characteristics, anti-ligature luminaires are also rip-out-resistant. The figure in the 3^{rd} position is optional

IK ratings

NF EN 62262 standard IK rating for resistance to mechanical impacts

Impact resistance	Mass / Drop height
IK 1 / 0,140 joule	0,25 kg : 56 mm
IK 2 / 0,20 joule	0,25 kg : 80 mm
IK 3 / 0,35 joule	0,25 kg : 140 mm
IK 4 / 0,50 joule	0,25 kg : 200 mm
IK 5 / 0,70 joule	0,25 kg : 280 mm
IK 6 / 1 joule	0,25 kg : 400 mm
IK 7 / 2 joules	0,50 kg : 400 mm
IK 8 / 5 joules	1,70 kg : 300 mm
IK 9 / 10 joules	5 kg : 200 mm
IK 10 / 20 joules	5 kg : 400 mm
IK 11 / 50 joules	10 kg : 500 mm
IK 11+ / 80 joules	10 kg : 800 mm
IK 11++ / 100 joules	10 kg : 1000 mm
IK 11++ / 120 joules	15 kg : 800 mm
IK 11++ / 150 joules	15 kg : 1000 mm

The EN 62262 standard provides for a maximum resistance of IK11 = 50 joules.

The figure in the 3rd position is optional.

* Standardized values as per EN 62262: see IK rating