

### Extract from IEC:60529 (IP Code)

IEC:60529 describes a system for classifying the degrees of protection provided by the enclosures of electrical equipment. The system uses a 2 number code, the combination of which indicates the degree of protection.

Ist Code Number	Level of protection against the ingress of solid foreign bodies	2nd Code Number	Level of protection against water
0	No protection	0	No protection
1	≥ 50mm diameter	1	Vertical dripping
2	≥ 12.5mm diameter	2	Angled (15°) dripping
3	≥ 2.5mm diameter	3	Spraying (light water splashes)
4	≥ 1.0 mm diameter	4	Splashing (water splashes)
5	Dust protected	5	Jetting (water squirts)
6	Dust tight	6	Powerful jetting (AVS Note: <u>NOT</u> pressure washing)
		7	Temporary immersion
		8	Continuous immersion

Further test details for most common codes:

2nd Code Number	Test means	Water flow Litres/min	Duration of test
5	Water jet hose nozzle. Nozzle 6.3mm Ø Distance 2.5 to 3 m	12.5 ±5%	1 minute per m2 for at least 3 minutes
6	Water jet hose nozzle. Nozzle 12.5mm Ø Distance 2.5 to 3 m	100 ±5%	1 minute per m2 for at least 3 minutes
7	Immersion tank. Water level on enclosure: 0.15m above the top, 1 m above the bottom	N/A	30 minutes
8	Immersion tank. Water level by agreement	N/A	By agreement

**NEMA (USA) COMPATABILITY:** Please note there are no direct comparisons with the NEMA 4, 4X and 7 USA standards, the test criteria are completely different. Refer to NEMA standards for details.