



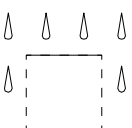
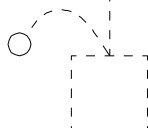

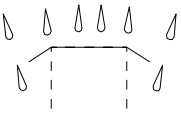
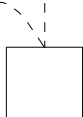

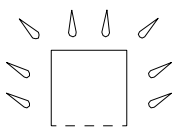


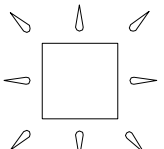
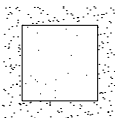
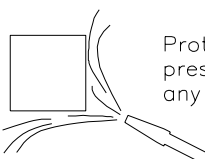

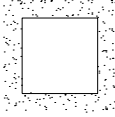
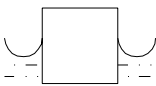
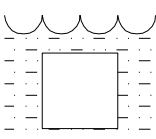

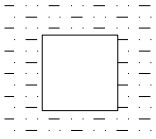



IP	First Number Protection against solid objects	Second Number Protection against liquids	Third Number (Optional) Protection against Impact
0	 No protection	 No protection	 No protection
1	 Solid objects over 50mm eg: Hands	 Protection from liquids falling vertically eg: Condensation	 0.225 Joule 150g from 15cm
2	 Solid objects over 12mm eg: fingers	 Protection from liquids falling 15° from vertical	 0.375 Joule 250g from 15cm
3	 Solid objects over 2.5 mm eg: tools	 Protection from liquids falling 60° from vertical	 0.5 Joule 250g from 20cm
4	 Solid objects over 1mm eg: wires	 Protection from splashing in any direction	
5	 Dust protected (limited ingress allowed)	 Protection from pressurized water any direction	 2.0 Joule 500g from 40cm
6	 Totally sealed against dust	 Protection from ship-deck conditions	
7		 Protection from immersion up to 1m	 6.0 Joule 1.5kg from 40cm
8		 Protection from immersion up to a specified depth	
9			 20.0 Joule 5kg from 40cm

IP stands for Ingress Protection.

Common ratings are:

IP22 Drip proof

IP54 Dust proof

IP55 Weatherproof

IP57 Watertight