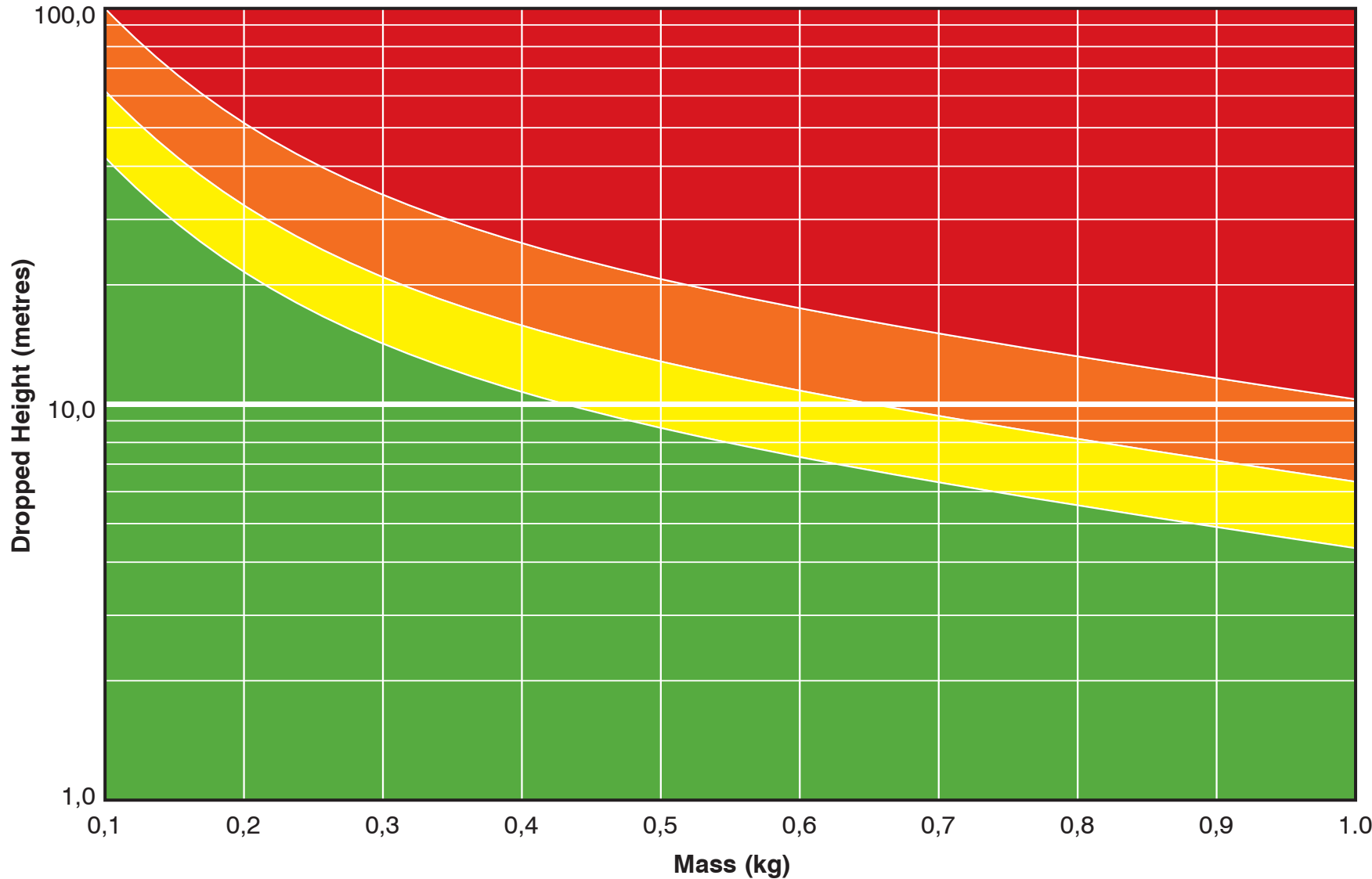


DROPS METRIC CALCULATOR

Classification Dropped Objects Potential Consequences 1,0m to 100,0m / 0,1kg to 1.0kg



This Calculator provides a common benchmark in the classification of the potential consequences of a dropped object.

One of a number of similar tools, the DROPS Calculator is endorsed by the DROPS Workgroup and recognised by HSE Organisations. While other 'calculators' exist, they all follow the same principle – plotting the mass of a dropped object against the distance it falls to determine its possible consequences.

Considerations

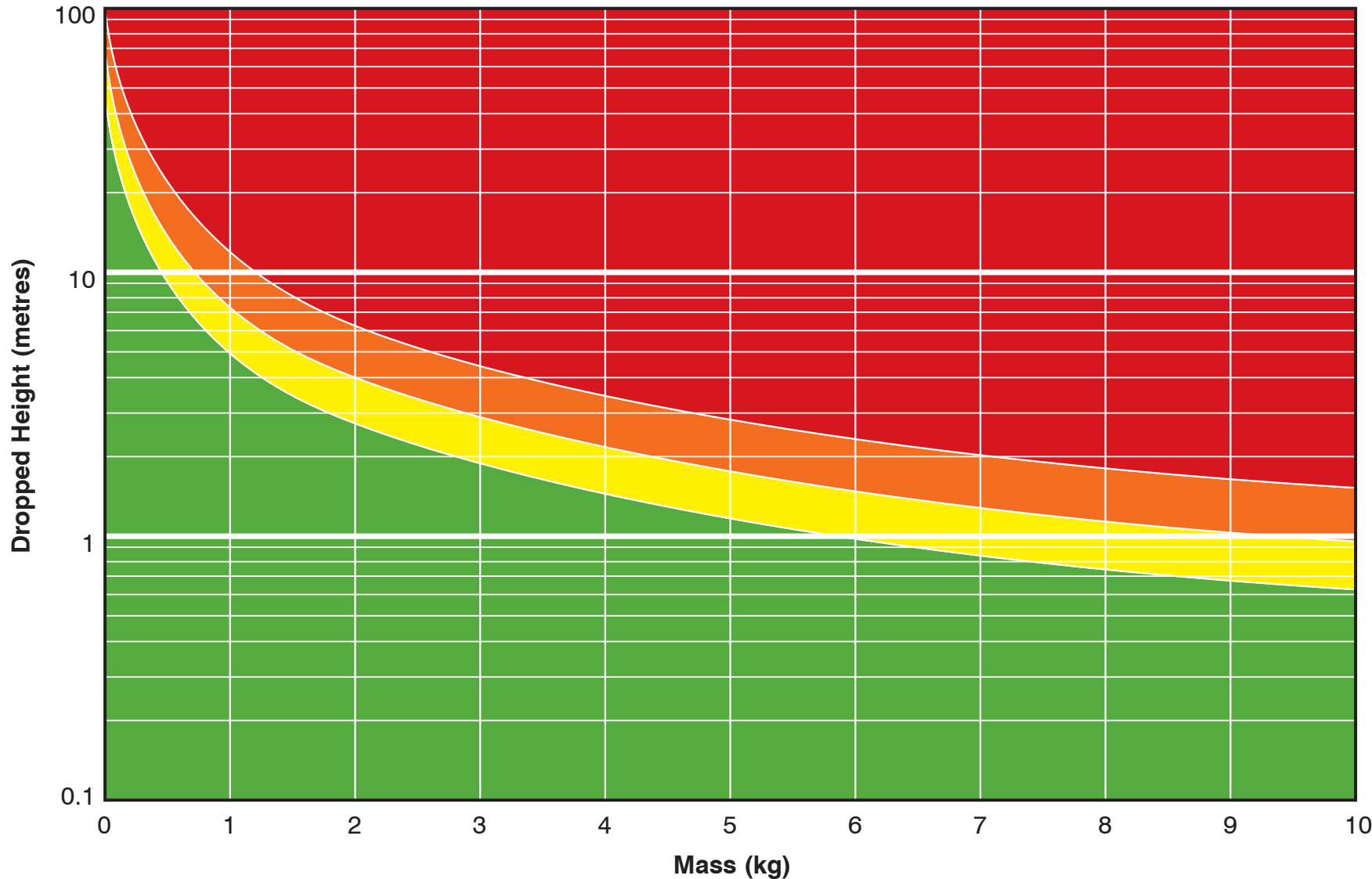
- With light objects (<0.1 kg) a key influencing factor is the effect of an object punching the skin and damaging tissue/organic functions. The calculator assumes a blunt object so is not compatible with broken glass, metal shards etc.
- The wearing of standard PPE, eg hard hat, safety boots and eye protection, is assumed in the calculator.
- Do not subtract the height of an individual, measure fall distance to solid deck/ ground level.
- DROPS Calculator and other similar tools are guides only providing cursory indication of possible outcome – they are not an accurate prediction.
- In reality, even a small object falling from height can be lethal.

Mass x Distance x Gravitational Acceleration = Fall Energy

Fatality
LTI Lost Time Injury (Major Injury DAFWC)
MTC Medical Treatment Case (Minor Injury)
First Aid (Slight Injury)

DROPS METRIC CALCULATOR

Classification Dropped Objects Potential Consequences 0.1m to 100m / 0kg to 10kg



This Calculator provides a common benchmark in the classification of the potential consequences of a dropped object.

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