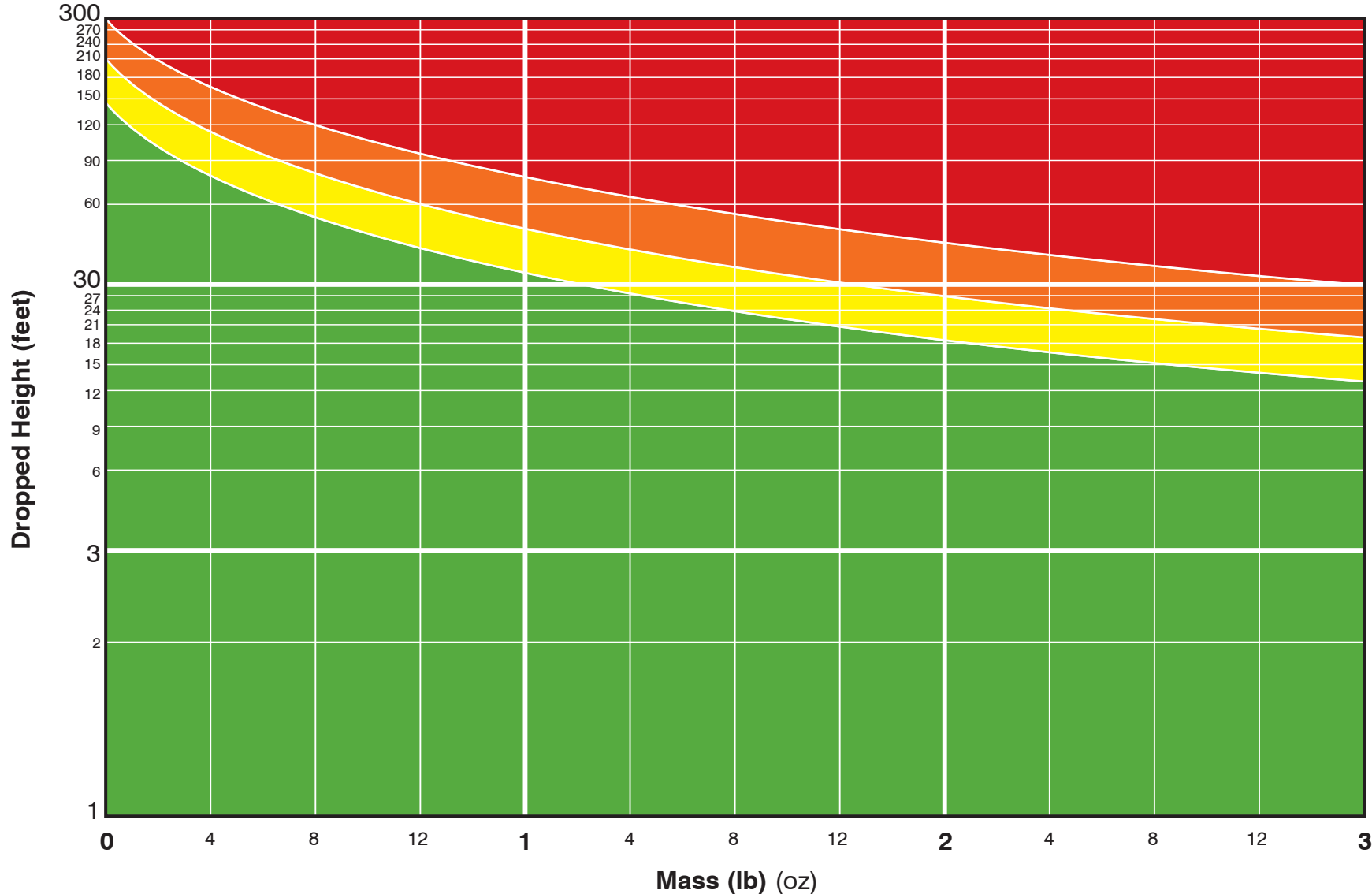


DROPS IMPERIAL CALCULATOR

Classification Dropped Objects Potential Consequences 1ft - 300ft / 0lb to 3lb



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

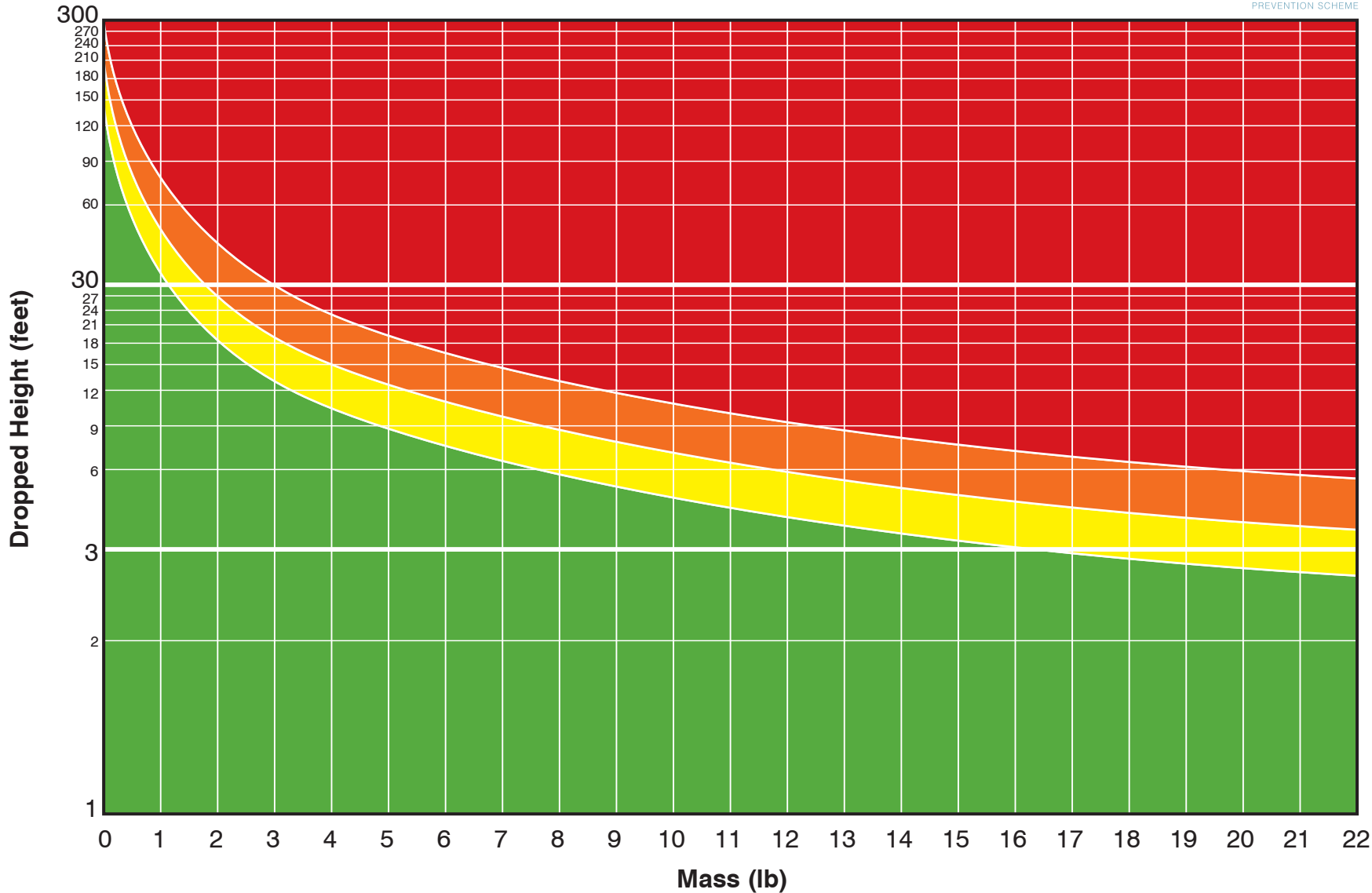
- With light objects (<0.1 kg) a key influencing factor is the effect of an object punching the skin and damaging tissue/organic functions. The calculator assumes a blunt object so is not compatible with broken glass, metal shards etc.
- The wearing of standard PPE, eg hard hat, safety boots and eye 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 IMPERIAL CALCULATOR

Classification Dropped Objects Potential Consequences 1ft - 300ft / 0lb to 22lb



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)