

HOW HEAVY IS DEADLY?



June 2022

An object may not be **heavy**...
but if it falls, it could be **deadly**.

The greater the drop **height**,
the greater the landing **force**.

Height	1 pound	2 pounds	5 pounds	10+ pounds
300 feet	Serious to Severe	Severe	Deadly	Deadly
200 feet	Serious to Severe	Severe	Severe to Deadly	Deadly
150 feet	Serious	Severe	Severe to Deadly	Deadly
100 feet	Serious	Severe	Severe	Deadly
50 feet	Serious	Serious to Severe	Severe	Severe to Deadly
20 feet	Serious	Serious	Severe	Severe to Deadly
10 feet	Serious	Serious	Serious to Severe	Severe
6 feet	Serious	Serious	Serious	Severe

FALLING OBJECTS CAN CAUSE

- Minor injuries like bruises and cuts
- More serious injuries like broken bones
- Severe injuries like paralysis
- Death, in extreme (or some) cases

WHAT CAN YOU DO?

- Tether your tools and equipment
- Keep your work area clear of materials, debris, and loose tools and equipment
- Learn about how to prevent falling or dropped objects from happening on your job site: cpwr.com

Note
DROPS Calculator and other similar tools are only guides—they are not an accurate prediction. Even a small object falling from height can be lethal. The wearing of standard PPE, e.g. hard hat, safety boots and eye protection, is assumed in the calculator. The calculator plots the mass of a dropped object against the distance it falls to determine its possible consequences.

Sources
DROPS [2021]. DROPS calculator EXCEL version. Loirston, Aberdeen: Dropped Objects Prevention Scheme Global Resource Centre, <https://www.dropsonline.org/resources-and-guidance/drops-calculator/>.
Solheid J [2020]. Prevent dropped objects with the three ts. Professional Safety 65(3):63, <https://www.proquest.com/scholarly-journals/prevent-dropped-objects-with-three-ts/docview/2371591423/se-2?accountid=26724>.

