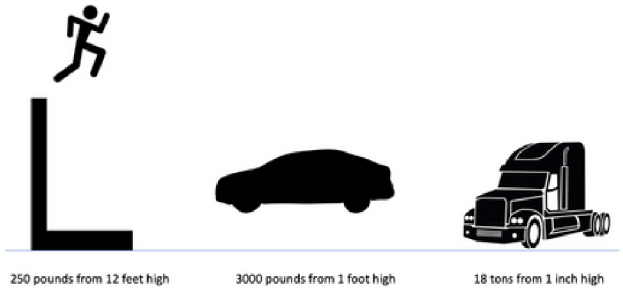
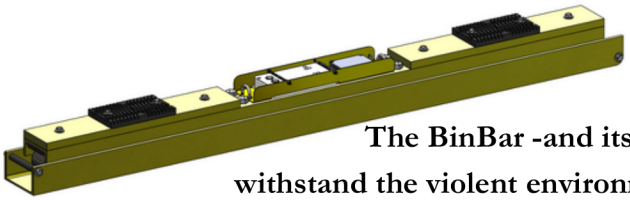
# BinBar®
# Physics and Design

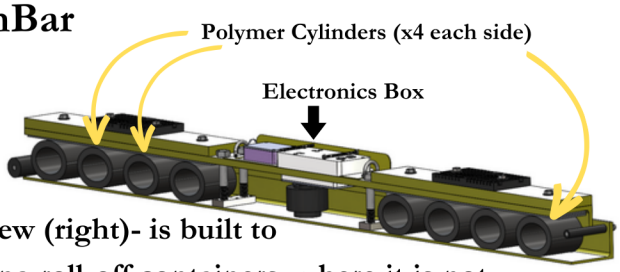
## Field scales for roll-offs

Truck scales are accurate. Truck scales also are expensive and delicate. The impact of a modest object from a small height is enough to destroy the expensive, delicate and accurate truck scale.




## Enter the BinBar



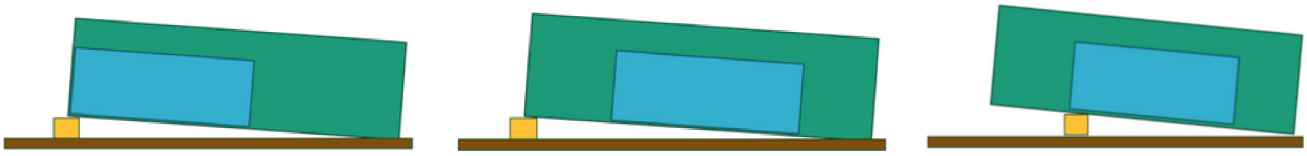



The BinBar -and its cutaway view (right)- is built to withstand the violent environment of filling roll-off containers, where it is not uncommon for a 2500 lbs bale to drop from 4 feet. The design is brilliantly simple. Polymer cylinders compress under the weight of a roll-off. The electronics box measures the compression to 1/1000th inch. The BinBar's weight algorithm factor (WAF) converts measurement to the weight of the roll-off.

## The WAF

The three diagrams below may look similar at first glance. To the Weight Algorithm Factor: the middle diagram is the ideal; the left diagram is a site specific adjustment; the right is a mis-placed BinBar. To convert measurement to weight, each BinBar uses its own WAF that combines three general factors:

1. Those specific to the individual BinBar--historical, physical, and climate
2. Loading patterns at the client site--size of typical additions, location in container, timing of additions
3. Placement of the BinBar--within expected or mis-placed



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