

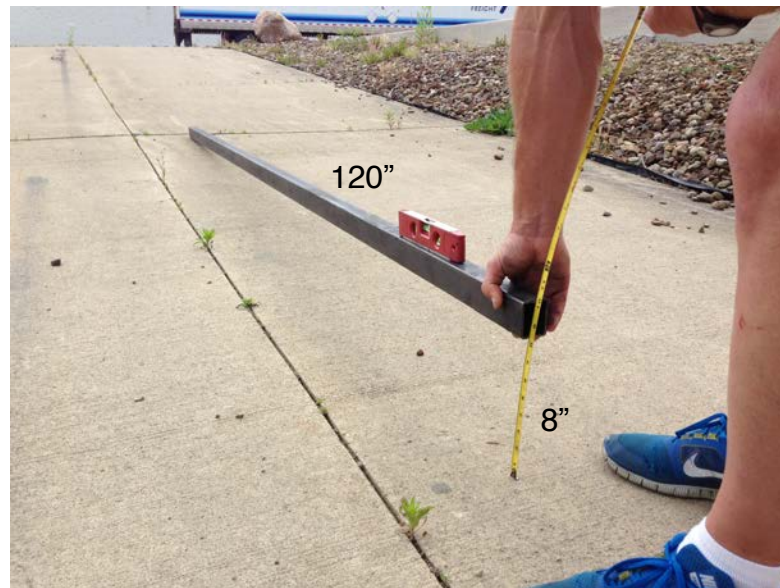
HOW TO DETERMINE PERCENT GRADE

Tools Needed:

1. Tape measure
2. Level
3. Ten (10) feet long straight piece of steel, wood or something straight (or the longest piece available)

Procedure:

1. Place one end of the straight piece on the ground with level on the other end.
2. Once the straight piece is level, measure the distance from the ground to the bottom of the straight piece. In the picture below, this measures 8”.



Calculation:

% Grade is calculated by dividing the RISE by the RUN = RISE / RUN

1. 8" divided by 120" (or 10 feet) = $8/120 = 0.0667$
2. Multiply by 100 to get % = $0.0667 \times 100\% = 6.67\%$

Therefore, in this example the incline is 6.67%. This would make the effective weight of the trailer going up the incline roughly 60-70% higher than the actual gross trailer weight.

For reference, a 10% incline effectively doubles the weight of the trailer.