**TIP OF THE WEEK**

**MODEL** .............................. Backhoe Excavators  
**FEATURE** ...................... BUCKET FILL ESTIMATION

Rated Bucket Capacity has two components: Struck and Heap

- The **Struck** capacity is the volume below a straight line from the cutting edge to the bucket back sheet. It comprises 75% of the rated bucket capacity.
- The remaining 25% is the **Heap** volume. The rated heap volume is based on the Height of the heaped material being equal to \( \frac{1}{2} \) of the bucket Width.
- The Rated Capacity of Excavator Buckets follow SAE J296 / ISO7451 Standards

![Diagram showing bucket fill estimation](image)

Usually, excavator operations strive for consistent bucket fill factors of 90% or greater.

**Bucket fill estimation is a vital component to estimate machine productivity.**