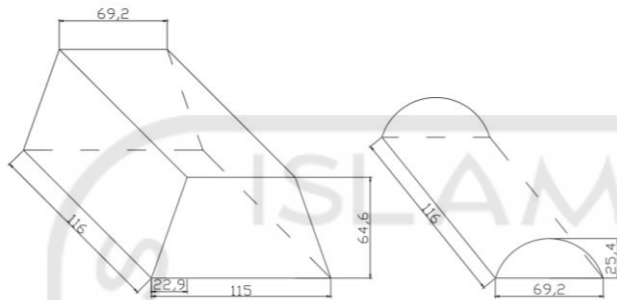


Lampiran 9 Perhitungan Ukuran *Bucket Custom*



- 115 cm (Gambar 5.5)
- 116 cm (Gambar 5.4)

1. Volume *Bucket Struck*

Bangun 1 (kiri)

$$\begin{aligned}
 & \begin{array}{c} 64,6 \\ \triangle \\ 22,9 \end{array} \text{ (Gambar L-4.13)} \\
 & = \sqrt{22,9^2 + 64,6^2} \\
 & = 68,54 \text{ cm}^2 \\
 & La = \frac{1}{2} \times (69,2 + 115) \times 68,54 \\
 & = 6312,534 \text{ cm}^2
 \end{aligned}$$

$$\begin{aligned}
 V & = La \times 116 \\
 & = 732253,94 \text{ cm}^3 \\
 & = 0,73 \text{ m}^3
 \end{aligned}$$

Bangun 2 (kanan)

$$\begin{aligned}
 r & = 25,4 \text{ cm (Gambar L-4.14)} \\
 V & = \frac{\pi \times 25,4^2 \times 116}{2} \\
 & = 117556,13 \text{ cm}^3 \\
 & = 0,117 \text{ m}^3
 \end{aligned}$$

$$\text{Volume total} = 0,73 \text{ m}^3 + 0,117 \text{ m}^3 = 0,85 \text{ m}^3 \text{ (Kondisi Struck)}$$

2. Volume Bucket *Custom* Kondisi *Heaped*

- *Struck Custom* = 0,85 m³
- *Struck Normal* = 0,59 m³ (Lampiran 7)
- *Heaped Normal* = 0,80 m³ (Lampiran 7)
- *Heaped Custom* :

$$\frac{HC}{0,85} = \frac{0,8}{0,59}$$

$$HC = \frac{0,8 \times 0,85}{0,59}$$

$$HC = 1,15 \text{ m}^3$$

Berdasarkan kondisi lapangan volume bucket yang digunakan pada perhitungan ialah 1,15 m³ dengan kondisi *heaped* atau munjung.

