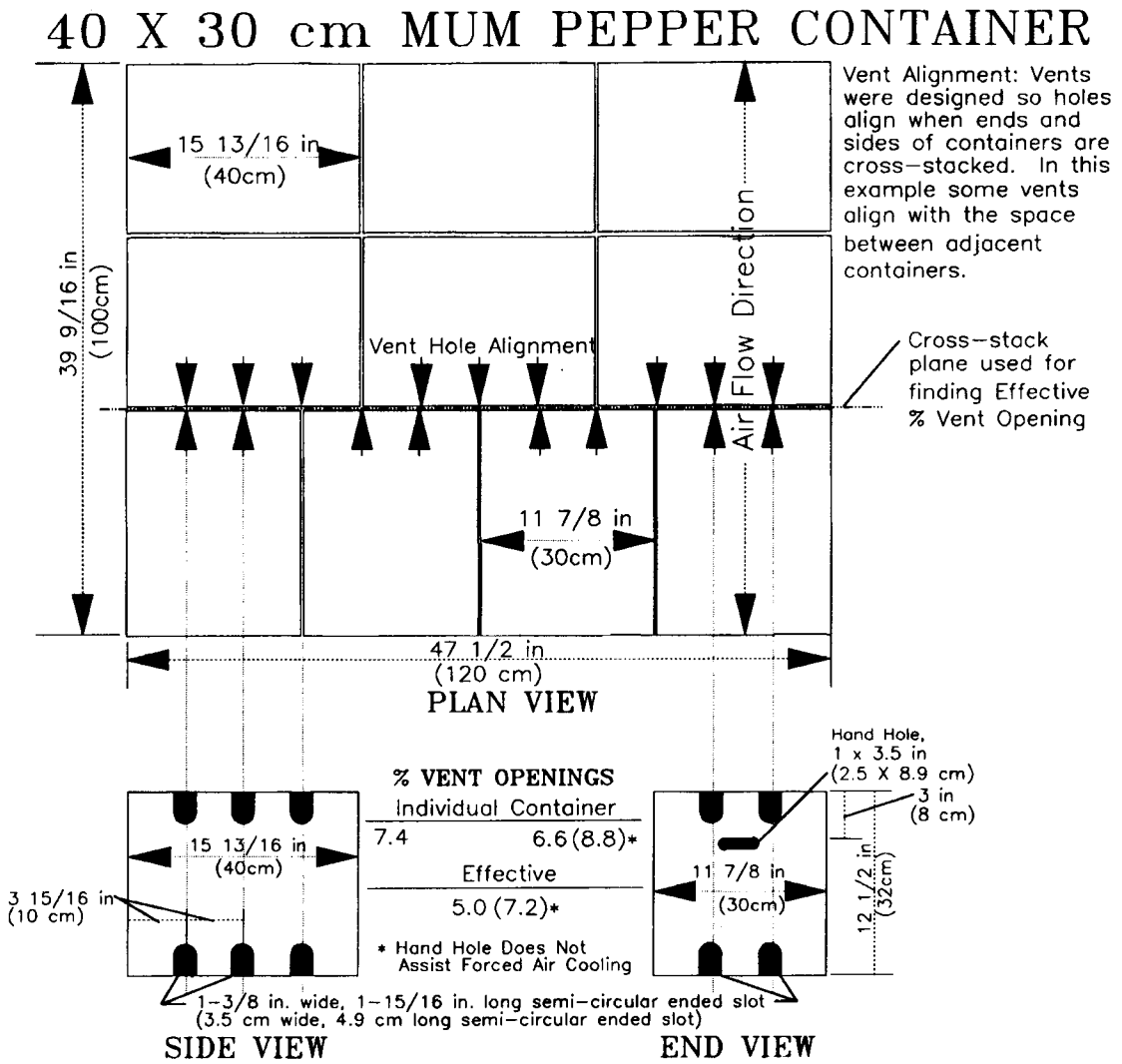
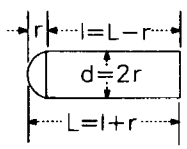



## Area of Round-ended Slot




Area Slot = Area Rectangle + Area Semi-Circle

$= (L-r)d + 1/2(\pi d^2/4) = ld + 1/2(\pi r^2)$

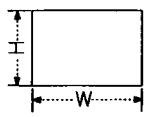
For example using the side view above (Metric units):

Area Slot $= [(4.9-(3.5)/2)](3.5) + 1/2[\pi(3.5)^2/4]$

Area Slot $= 15.8\ cm^2$

Total Vent Area = 6(Area Slot) $= 94.8\ cm^2$

## Area of Container Face




Area Face = Area Rectangle = Width x Height = WH

For example using the side view above (Metric units):

Area Face $= (40)(32) = 1280\ cm^2$

## % Vent Opening Area

$$\% \text{ Vent Opening} = \frac{\text{Total Vent Area}}{\text{Area Face}} 100$$

For example using the side view above (Metric units):

% Vent Opening = (94.8/1280)100 = 7.4%

% Effective Vent Opening = (12)(15.8)/(3)(1280)100 = 5.0%

**Figure 9. 40 x 30 cm MUM pepper container showing dimensions, percent vent openings, and pallet stacking configuration.**