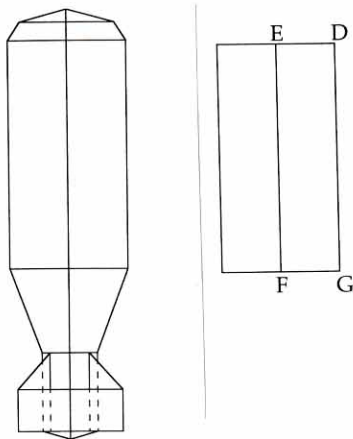
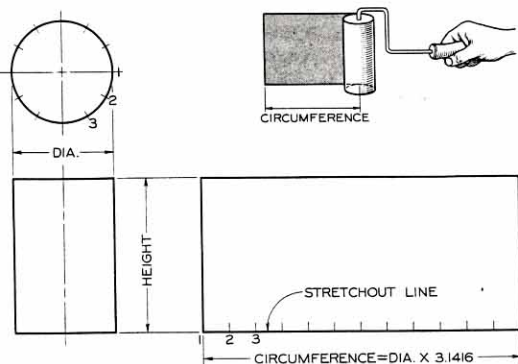


Body of the Bomb: Parallel-line Development

This portion is a right cylinder.



A right cylinder whose bases are perpendicular to its center line will develop into a simple rectangle. Imagine a paint roller and apply one revolution of the roller on a wall. The painted area will be a rectangle.



To calculate the stretchout we use the formula:

$$\text{Circumference} = \text{diameter} \times 3.146$$

- or -

$$C = d \times 3.146$$

Remembering that the diameter is twice the radius, that is:

$$d = 2 \times \text{radius}$$

- or -

$$d = 2r$$

- we rewrite the equation as: -

$$C = 2r \times 3.146$$

Returning to the previous development, we see that the radius, ED, equals 11.25 mm. Therefore:

$$C = 2 (11.25) \times 3.146$$

- which is -

$$C = 70.785$$

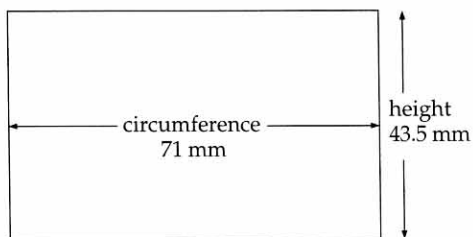
- or -

$$C = 70.785$$

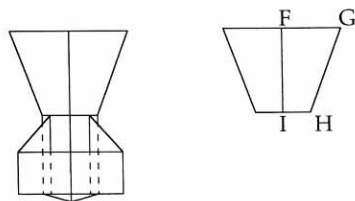
- rounded it becomes-

71 mm

The height of the section is equal to EF, or 43.5 mm tall. Therefore, the stretchout is 43.5mm tall by 71 mm wide.



Transition Piece



This is another radial-line development for a truncated cone.