# **US418 Sketches and Calculation**

### Vessel Type 71



Figure 1 - Vessel type 71

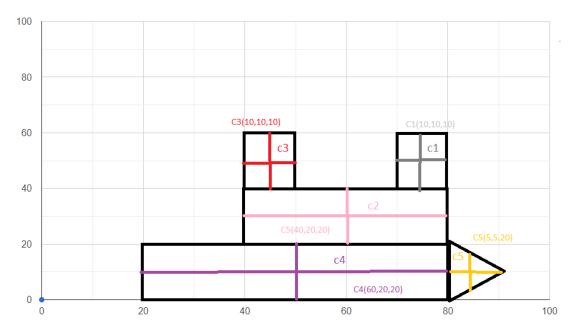


Figure 2 - Vessel type 71 sketch (side view)

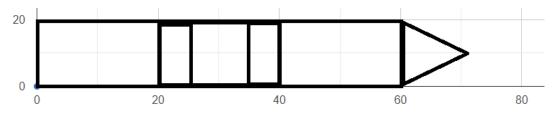


Figure 3 - Vessel type 71 sketch (upper view)

### Dados:

$$xc = \frac{2000 * 10 + 5000 * 40 + 2000 * 10 + 8000 * 60 + 5 * 1000}{18000} = 40,3$$

$$yc = \frac{2000 * 10 + 20 * 5000 + 10 * 2000 + 20 * 8000 + 1000 * 5}{18\,000} =$$
**16,9**

$$zc = \frac{2000 * 10 + 20 * 5000 + 10 * 2000 + 20 * 8000 + 1000 * 20}{18\,000} =$$
**17,8**

## Vessel Type 72



Figure 4 - Vessel type 72

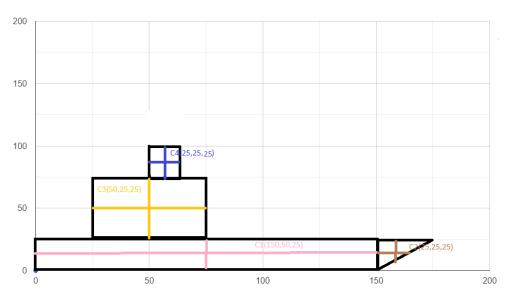


Figure 5 - Vessel type 72 sketch (side view)



Figure 6 - Vessel type 72 sketch (upper view)

#### Dados:

$$xc = \frac{10\ 000 * 150 + 2000 * 25 + 8000 * 50 + 2000 * 25}{22000} = \mathbf{91}$$

$$yc = \frac{10\ 000 * 50 + 2000 * 25 + 8000 * 25 + 2000 * 25}{22\ 000} = 36,4$$

$$zc = \frac{10\ 000 * 25 + 2000 * 25 + 8000 * 25 + 2000 * 50}{22\ 000} =$$
**27,3**

### Vessel Type 74



Figure 7 - Vessel type 74

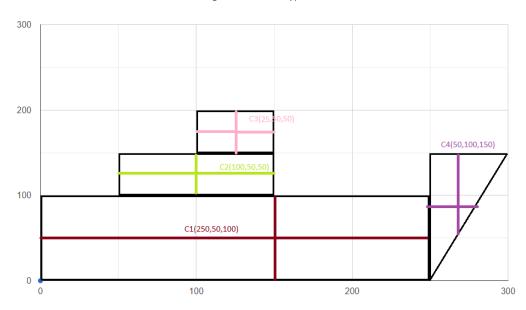


Figure 8 - Vessel type 74 sketch (side view)

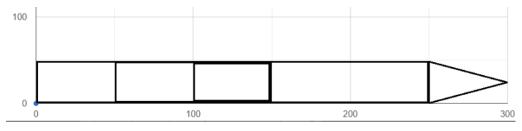


Figure 9 - Vessel type 74 sketch (upper view)

#### Dados:

$$xc = \frac{12\ 000 * 250 + 5\ 000 * 100 + 2\ 000 * 25 + 8\ 000 * 50}{27\ 000} =$$
**146**, **3**

$$yc = \frac{12\ 000 * 50 + 5\ 000 * 50 + 2\ 000 * 50 + 8\ 000 * 100}{27\ 000} = 64,8$$

$$zc = \frac{12\ 000 * 100 + 5\ 000 * 50 + 2\ 000 * 50 + 8\ 000 * 150}{27\ 000} =$$
**101,8**