

cost analysis:

TPR-1

- High cost range

15 sheets Airex C70.55 = 303€

2 rolls West System GFK= 1.340€

Total = 1.643€

hull surface area - 246.938 ft² / 22.941 m²

- Havel Composites airex C70.55, 8mm, sheet 2,45m x 1,15m, 2,817 m² 20,2 EUR (unit cost) vat inc.

Cost ÷ m² = Cost/m²

$$20,2 \text{ EUR per sheet} \div 2,817 \text{ m}^2 = 7,17 \text{ EUR/m}^2$$

-hull surface area ÷ sheet surface area = number of sheets needed

-number of sheets needed × cost per sheet = cost of total core material

$$22,941 \text{ m}^2 \div 2,817 \text{ m}^2 = 8.14 \text{ sheets needed,}$$

$$9 \text{ sheets} \times 20,20 \text{ EUR} =$$

- West System GFK cloth 12oz, 60 inches x 20 yards 759USD(unit cost)

-West System cloth 340g, 1,524m x 18,288m 670EUR

$$1,524 \text{ m} \times 18,288 \text{ m} = \text{surface area}$$

$$27,870 \text{ m}^2 = 670 \text{ EUR}$$

$$\text{cost} \div \text{surface area} = \text{cost/m}^2$$

$$670 \text{ EUR} \div 27,87 \text{ m}^2 = 24,04 \text{ €/m}^2$$

-hull surface area x 2 = cloth surface area for laminate

$$22.941 \text{ m}^2 \times 2 = 45,882 \text{ m}^2 \text{ cloth}$$

-cloth surface area for laminate x cost/m² = total cloth cost for laminate

$$45,882 \text{ m}^2 \times 24,04 \text{ EUR/m}^2 = 1.103 \text{ €}$$

$$22.941 \text{ m}^2 \times 7,17 \text{ EUR/m}^2 = 164,486 \text{ €}$$

Pro Marine epoxy resin, 2gal =

- Cost of Laminate

45,882m² cloth = 1.103€

22,941m² core = 164,486€

core cost + cloth cost = total cost

1.103 EUR + 164,486EUR = 1.267,486€

- laminate cost per square meter

cloth/m² = 48,08€

core/m² = 7,170€

laminate/m² = 55.25€

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