FirePro. Reinventing Fire Suppression

AMSA Marine Design Calc. - Fire Class A

2/09/2020
Rev: 21.4

Vessel Name	Sample Calculation
Risk Area	Sample
Constructed From	Sample

☑ Class A ☑ Class B ☑ Class E ☐ Class D ☐ Class F

VESSEL Length 24 Meters

	Length		Width		Height		Not Used	
GROSS DIMENSIONS	4.00	x	3.00	x	2.50	=		m³

Actual Leakage Measurement - M² = - m²

Leakage Allowance without additional Agent = 0.10 m²

GROSS Volume used for Calculation = 30.00 m³

PRIMARY AGENT DISCHARGE = 3,000 g

Secondary Agent Discharge = Not Required

Model	L2 (mm)	L3 (mm)	Stream (mm)	Agent Qty	Concentration Primary	Concentration Secondary	Primary Quantity	Secondary Quantity
FP-0020	0	100	300	20	-	-		
FP-0040	0	100	1200	40	-	-		
FP-0080	0	100	2000	80	-	-		
FP-0100	0	100	1000	100	-	-		
FP-0200	100	300	1500	200	-	-		
FP-0500	200	500	2500	500	-	-		
FP-1200	200	1200	3500	1,200	-	-		
FP-2000	200	1200	3500	2,000	-	-		
FP-3000	700	1700	4000	3,000	3,000	-	1	
FP-5700	800	1800	8000	5,700	-	-		

Total Concentration	3,000	-
Required Concentration	3,000	-
% Required Concentration	100%	

☑ Design Calculation has been Confirmed

☑ FirePro Units have suitable STREAM length for Risk Area Coverage

☑ Leakage compensation made in Primary Discharge

☐ Additional HOLD time Required for the risk

Marine Design Notes - Vessels to 24 m

Pre-Engineered Design Calculation

CALCULATION OF VOLUME : Volume is Gross Volume with NO deductions for Engine Machinery. The calculation based on the Maritime Coast Guard Agency(UK) MS22/3/910. This can only be used for vessels less than 24 metres Registered Length. AMSA.

Minimum Extinguishing Factors (mef) 100 X 1 = 100

- L2 is the thermal clearance required where the temperature of the discharge is less than 200° C
- L3 is the thermal clearance required where the temperature of the discharge is less than 75° C

APPROVED

Prepared By:	Company
Test	FSE