FirePro. Reinventing Fire Suppression

MED Marine Calculation

2/09/2020
Rev: 21.4

Vessel Name	Sample Calculation
Risk Area	Sample
Class / Flag State	Sample

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

	Length		Width		Height		Not Used	
GROSS DIMENSIONS	4.00	x	3.00	x	2.50	=		m³
Deductions from Gross Volume - m³						=	-	m³
Leakage Allowance without additional Agent						=	-	m²
NET Volume used for Calculation						=	30.00	m³
PRIMARY AGENT DISCHARGE						=	3,600	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	12	-	-		
FP-0040	0	100	1200	24	-	-		
FP-0080	0	100	2000	47	-	-		
FP-0100	0	100	1000	61	-	-		
FP-0200	100	300	1500	118	-	-		
FP-0500	200	500	2500	330	-	-		
FP-1200	200	1200	3500	756	-	-		
FP-2000	200	1200	3500	1,200	-	-		
FP-3000	700	1700	4000	1,830	3,660	-	2	
FP-5700	800	1800	8000	3,363	-	-		

Total Concentration	3,660	-
Required Concentration	3,600	-
% Required Concentration	101%	

☑ 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

MED Design Notes

Pre-Engineered Design Calculation

CALCULATION OF VOLUME : Any Objects that occupy volume within the protected space SHOULD BE subtracted from the gross volume of the space. These items should exclude any combustible items. (MSC 1/Circ 1270, Chapter 11.3) AMSA and SOLAS.

Minimum Extinguishing Factors (mef) 120 X 1 = 120

APPROVED

Prepared By:	Company
Test	FSE

- 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