Reinventing Fire Suppression
rire Suppression

GENERAL APPLICATION

18/05/2022

Rev: 22.1

L2 L3 Stream Agent Concentration **Primary** Secondary Model (mm) (mm) (mm) Qty Quantity Quantity **AFT - DP World** Primary Secondary **CLIENT NAME Crane 1 Ship to Shore Control Room** Risk Description FP-0020 0 1000 20 **Constructed from** Steel FP-0040 0 0 1000 ✓ Class A ✓ Class B ✓ Class E Class D Class F FP-0080 0 1000 80 FP-0100 0 200 1000 100 FP-0200 300 2000 Length Width Not Used Height m³ **GROSS DIMENSIONS** 11.95 x 2.91 x 2.85 FP-0500 100 500 2000 500 m² FP-1200 Actual Leakage Measurement - m² = 1500 3500 1.200 FP-2000 0 1500 3500 2,000 Leakage Allowance without additional Agent = 0.20 m² FP-3000 600 0 2000 3500 3,000 99.11 m³ **GROSS Volume used for Calculation =** FP-5700 600 5,700 11,400 2000 8400 **Total Concentration** 11,400 PRIMARY AGENT DISCHARGE = 10,823 10.823 Required Concentration % Required Concentration 105% Secondary Agent Discharge = **Design Calculation has been Confirmed** \checkmark FirePro Units have suitable STREAM length for Risk Area Coverage П **Leakage compensation made in Primary Discharge Aust. Std Design Notes** П Additional HOLD time Required for the risk **Pre-Engineered Design Calculation APPROVED** CALCULATION OF VOLUME: Calculation is based on Gross Volume with NO deductions for any Objects that occupy volume within the protected space. This category covers fixed condensed aerosol extinguishing system units intended for total flooding applications. AS 4487 and AS5062. Prepared By: Company **Minimum Extinguishing Factor (mef)** 109.2 84 1.3 FSE PM • 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

Reinventing
Fire Suppression

GENERAL APPLICATION

18/05/2022

Rev: 22.1

			L2 (mm)		Stream (mm)	Agent Qty	Concentration		Primary Quantity	Secondary Quantity
CLIENT NAME	AFT - DP World		(11111)	(11111)	(11111)	Qty	Primary	Secondary	Quantity	Qualitity
Risk Description	Risk Description Crane 1 Ship to Shore Control Room1		0	0	1000	20	-	-		
Constructed from	From Steel		0	0	1000	40	-	-		
	✓ Class A ✓ Class B ✓ Class E ☐ Class D ☐ Class F	FP-0080	0	0	1000	80	-	-		
		FP-0100	0	200	1000	100	-	-		
	Length Width Height Not Used	FP-0200	0	300	2000	200	-	i		
GROSS DIMENSIONS	2.90 \times 2.91 \times 2.85 = m^3	FP-0500	100	500	2000	500	-	-		
	Actual Leakage Measurement - m ² = m ²	FP-1200	0	1500	3500	1,200	-	-		
	<u></u>	FP-2000	0	1500	3500	2,000	-	-		
Le	eakage Allowance without additional Agent = 0.10 m ²	FP-3000	600	2000	3500	3,000	3,000	-	1	
	GROSS Volume used for Calculation = 24.05 m ³	FP-5700	600	2000	8400	5,700	-	-		
PRIMARY AGENT DISCHARGE = 2,626 g		Total Concentration 3,000 - Required Concentration 2,626 - % Required Concentration 114%								
Secondary Agent Discharge = - g		✓ Design Calculation has been Confirmed								
		FirePro Units have suitable STREAM length for Risk Area Coverage								
		Leakage compensation made in Primary Discharge								
Aust. Std Design Notes		Additional HOLD time Required for the risk								
Pre-Engineered Design Calculation CALCULATION OF VOLUME: Calculation is based on Gross Volume with NO deductions for any Objects that occupy volume within the protected space. This category covers fixed condensed aerosol										
extinguishing system units intended for total flooding applications. AS 4487 and AS5062. Minimum Extinguishing Factor (mef) 84 X 1.3 = 109.2			Prepared By: Company PM 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