FirePro. Reinventing Fire Suppression	GENERAL APPLICATION									1/06/2021 Rev: 21.7		
CLIENT NAME	Kalmar Equipment Australia	Model	L2 (mm)	L3 (mm)	Stream (mm)	Agent Qty	Concer Primary	tration Secondary	Primary Quantity	Secondary Quantity		
Risk Description	ASC E-House	FP-0020	0	0	1000	20	-	-				
Constructed from	Steel	FP-0040	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	-	-				
GROSS DIMENSIONS	2.75 X 5.60 X 3.33 = m^3	FP-0500	100	500	2000	500	-	-				
	Actual Leakage Measurement - m ² = m ²	FP-1200	0	1500	3500	1,200	-	-				
		FP-2000	0	1500	3500	2,000	-	-				
Lea	akage Allowance without additional Agent = 0.10 m ²	FP-3000	600	2000	3500	3,000	6,000	-	2			
	GROSS Volume used for Calculation = 51.28 m ³	FP-5700	600	2000	8400	5,700	-	-				
PRIMARY AGENT DISCHARGE = 5,600 g			Total Concentration6,000-Required Concentration5,600-% Required Concentration107%									
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		APPROVED										
extinguishing system units intended for total flooding applications. AS 4487 and AS5062. Minimum Extinguishing Factor (mef) 84 X 1.3 = 109.2			Prepared By: Cor PM					Com FS	ipany SE			
 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 												

FirePro. Reinventing Fire Suppression	GENERAL APPLICATION									1/06/2021 Rev: 21.7		
CLIENT NAME	Kalmar Equipment Australia	Model	L2 (mm)	L3 (mm)	Stream (mm)	Agent Qty	Concen Primary	tration Secondary	Primary Quantity	Secondary Quantity		
Risk Description	ASC T-House Control	FP-0020	0	0	1000	20	-	-				
Constructed from	Steel	FP-0040	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	400	-	2			
GROSS DIMENSIONS	1.10 x 1.20 x 2.40 = m^3	FP-0500	100	500	2000	500	-	-				
	Actual Leakage Measurement - m ² = m ²	FP-1200	0	1500	3500	1,200	-	-				
		FP-2000	0	1500	3500	2,000	-	-				
Lea	akage Allowance without additional Agent = 0.10 m ²	FP-3000	600	2000	3500	3,000	-	-				
	GROSS Volume used for Calculation = 3.17 m ³	FP-5700	600	2000	8400	5,700	-	-				
PRIMARY AGENT DISCHARGE = 346 g			Total Concentration400-Required Concentration346-% Required Concentration115%									
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)84X1.3=109.2			APPROVED									
			Prepared By: Company PM FSE						pany SE			
 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 												

FirePro. Reinventing Fire Suppression	GENERAL APPLICATION 1/06/2021 Rev: 21.									2021 Rev: 21.7		
CLIENT NAME	Kalmar Equipment Australia	Model	L2 (mm)	L3 (mm)	Stream (mm)	Agent Qty	Concer Primary	tration Secondary	Primary Quantity	Secondary Quantity		
Risk Description	ASC T-House Transformer	FP-0020	0	0	1000	20	-	-				
Constructed from	Steel	FP-0040	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	100	-	1			
	Length Width Height Not Used	FP-0200	0	300	2000	200	-	-				
GROSS DIMENSIONS	1.90 x 1.20 x 2.40 = m^3	FP-0500	100	500	2000	500	500	-	1			
	Actual Leakage Measurement - m ² = m ²	FP-1200	0	1500	3500	1,200	-	-				
		FP-2000	0	1500	3500	2,000	-	-				
Lea	akage Allowance without additional Agent = 0.10 m ²	FP-3000	600	2000	3500	3,000	-	-				
	GROSS Volume used for Calculation = 5.47 m ³	FP-5700	600	2000	8400	5,700	-	-				
PRIMARY AGENT DISCHARGE = 598 g			Total Concentration600-Required Concentration598-% Required Concentration100%									
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)84X1.3=109.2			APPROVED									
			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 												