MOBILE PLANT

4/03/2024

Rev: 23.5

Aust.Std Design Notes

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. The concentration of Aerosol, and leakage allowances is based on Tests conducted in 2010 with Hughes Associates Europe. AS 5062.

Minimum Extinguishing Factor (mef) 145 X 1.3 = 188.5

1										
m³	Design Calculation has been Confirmed									
m²	✓ FirePro Units have suitable STREAM length for Risk Area Coverage									
50 m²	Leakage compensation made in Primary Discharge									
80 m³	Additional HOLD time Required for the risk									
39 g										
g	APPROVED									
econdary										
Quantity	System Design is Complete									
	Prepared By: Company									
	PM FSE									
	• L2 Clearance to ensure discharge temperature is less than 200° C									

CLIENT NAME Speno											
Make / Model HRR12-11A switch grinder truck											
	Risk A	rea En	Engine Bay								
Cla	asses of F	ire 🔽	Class A Class B Class E Class					Clas	s F		
GROSS	DIMENSI		Length 1.50 Leakage	Actual Actual Allowanc GROSS V PRI	Width 1.50 X Leakage Meas ie without add Yolume used for MARY AGEN	Height 0.80 Surement - M ² ditional Agent or Calculation T DISCHARGE	= = = =	Not	Used m ³ m ² 1.50 m ² 1.80 m ³ 339 g		
				S	econdary Age	ent Discharge	=		- g		
Model	L2 (mm)	L3 (mm)	(mm)	Agent Qty	Primary	Secondary	Pr Qu	imary iantity	Quantity		
FP-20	0	100	1000	20	-	-					
FP-40	0	100	1000	40	-	-					
FP-80	0	100	1000	80	-	-					
FP-100	0	100	1000	100	-	-					
FP-200	100	300	2000	200	400	-		2			
FP-500	200	500	3500	500	-	-					
FP-1200	200	1200	3500	1,200	-	-					
FP-2000	200	1700	3500	2,000	-	-					
FP-5000	800	1800	8400	5,000	-						
11 5700	000	1000	Total C		400	-					
			Required Co	oncentration	339	-					
		%	Required Co	oncentration	117%						

CLIENT NAME Speno

MOBILE PLANT

5/03/2024

Rev: 23.5

Aust.Std Design Notes

Pre-Engineered Design Calculation

ULATION OF VOLUME : Calculation is based on Gross Volume with NO ctions for any Objects that occupy volume within the protected space. The entration of Aerosol, and leakage allowances is based on Tests conducted in with Hughes Associates Europe. AS 5062.

Vinimum Extinguishing Factor (mef) 145 X 1.3 = 188.5

d										
m³	Design Calculation has been Confirmed									
m²	FirePro Units have suitable STREAM length for Risk Area Coverage									
.50 m²	Leakage compensation made in Primary Discharge									
.26 m³	Additional HOLD time Required for the risk									
803 g										
g	APPROVED									
econdary										
Quantity	System Design is Complete									
	Prepared By: Company									
	PM FSE									
	• L2 Clearance to ensure discharge temperature is less than 200° C									

										• • • • • • • • • • • • • • • • • • •	•		
Ma	ake / Mo	/ Model HRR12-11A switch grinder truck								CALCULATION OF VOLUME : Calculation is based on Gross Vol			
	Risk Ar	ea G	enerator B	Bay			deductions for any Objects that occupy volume within the protect concentration of Aerosol, and leakage allowances is based on Tes						
Cla	sses of F	ire 🔽	Class A	✓ Class B	Class E Class D		Class F			2010 with Hughes Associates Europe. AS 5062.			
			Longth			Hoight	J 1	NotUsed		Minimum Extinguishing Factor	(mef) 145 X 1.3		
GROSS DIMENSIONS			2.55	x 1.61		1.04	=	Not Osed	m³	Design Calculation has been Confirmed			
				Actual	Leakage Meas	urement - M ²	=		m²	FirePro Units have suitable STR	EAM length for Risk Area Cov		
Leakage Allowance without additional Agent = 3.50 m ²) m²	Leakage compensation made in Primary Discharge			
				GROSS V	olume used fo	or Calculation	=	4.26	5 m³	Additional HOLD time Required	l for the risk		
				PRI	MARY AGEN	T DISCHARGE	=	803	B g				
Secondary Agent Discharge = - g									APPROVED				
Model	L2	L3	Stream	Agent Qty	Concentration		Primary Se		econdary				
50.00	(mm)	(mm)	(mm)		Primary	Secondary	Qu	antity Qua	antity	- System Des	ign is Complete		
FP-20	0	100	1000	20	-	-							
FP-40	0	100	1000	40	-	-							
FP-80	0	100	1000	80	-	-							
FP-100	0	100	1000	100	-	-							
FP-200	100	300	2000	200	-	-				_			
FP-500	200	500	3500	500	1,000	-		2					
FP-1200	200	1200	3500	1,200	-	-				Prepared By:	Company		
FP-2000	200	1200	3500	2,000	-	-				PM	FSE		
FP-3000	700	1700	3500	3,000	-	-							
FP-5700	800	1800	8400	5,700	-	-				• 12 Clearance to ensure discharge te	mperature is less than 200° C		
			Total Co	oncentration	1,000	-							
			Required Co	oncentration	803	-				• L3 Clearance to ensure discharge te	mperature is less than 75° C		

124%

% Required Concentration