

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

- 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

APPROVED

System Design is Complete

Prepared By:	Company
PM	FSE

- L2 Clearance to ensure discharge temperature is less than 200° C
- L3 Clearance to ensure discharge temperature is less than 75° C

CLIENT NAME Speno

Make / Model HRR12-11A switch grinder truck

Risk Area Engine Bay

Classes of Fire

Class A

Class B

Class E

Class D

Class F

GROSS DIMENSIONS

Length 1.50 x
 Width 1.50 x
 Height 0.80 =
 Not Used m³

Actual Leakage Measurement - M² = m²

Leakage Allowance without additional Agent = 1.50 m²

GROSS Volume used for Calculation = 1.80 m³

PRIMARY AGENT DISCHARGE = 339 g

Secondary Agent Discharge = - g

Model	L2 (mm)	L3 (mm)	Stream (mm)	Agent Qty	Concentration		Primary Quantity	Secondary Quantity
					Primary	Secondary		
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	1200	3500	2,000	-	-		
FP-3000	700	1700	3500	3,000	-	-		
FP-5700	800	1800	8400	5,700	-	-		

Total Concentration	400	-	
Required Concentration	339	-	
% Required Concentration	117%		

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APPROVED

System Design is Complete

Prepared By:	Company
PM	FSE

- L2 Clearance to ensure discharge temperature is less than 200° C
- L3 Clearance to ensure discharge temperature is less than 75° C

CLIENT NAME Speno

Make / Model HRR12-11A switch grinder truck

Risk Area Generator Bay

Classes of Fire

Class A

Class B

Class E

Class D

Class F

GROSS DIMENSIONS

Length 2.55 x Width 1.61 x Height 1.04 = Not Used m³

Actual Leakage Measurement - M² = m²

Leakage Allowance without additional Agent = 3.50 m²

GROSS Volume used for Calculation = 4.26 m³

PRIMARY AGENT DISCHARGE = 803 g

Secondary Agent Discharge = - g

Model	L2 (mm)	L3 (mm)	Stream (mm)	Agent Qty	Concentration		Primary Quantity	Secondary Quantity
					Primary	Secondary		
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	-	-		
FP-2000	200	1200	3500	2,000	-	-		
FP-3000	700	1700	3500	3,000	-	-		
FP-5700	800	1800	8400	5,700	-	-		

Total Concentration	1,000	-	
Required Concentration	803	-	
% Required Concentration	124%		