

CLIENT NAME

**Volgren**

Make / Model

**Optimus**

Risk Area

**Steel**

Class A   
  Class B   
  Class E   
  Class D   
  Class F

GROSS DIMENSIONS

Not Used    Not Used    Not Used    Vol Entered  
 X  X  =  m<sup>3</sup>

Actual Leakage Measurement - M<sup>2</sup> =  m<sup>2</sup>

Leakage Allowance without additional Agent =  m<sup>2</sup>

GROSS Volume used for Calculation =  m<sup>3</sup>

PRIMARY AGENT DISCHARGE =  g

Secondary Agent Discharge =  g

Model	L2 (mm)	L3 (mm)	Stream (mm)	Agent Qty	Concentration		Primary Quantity	Secondary Quantity
					Primary	Secondary		
FP-0020	0	100	1000	20	-	-		
FP-0040	0	100	1000	40	-	-		
FP-0080	0	100	1000	80	-	-		
FP-0100	0	100	1000	100	-	-		
FP-0200	100	300	2000	200	-	-		
FP-0500	200	500	2000	500	1,000	-	<b>2</b>	
FP-1200	200	1200	3500	1200	-	-		
FP-2000	200	1200	3500	2000	-	-		
FP-3000	700	1700	3500	3000	-	-		
FP-4200	600	2500	5000	4200	-	-		
FP-5700	800	1800	8400	5700	-	-		

Total Concentration	1,000	-
Required Concentration	754	-
% Required Concentration	132%	

- 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

## Aust.Std Design Notes

### Pre-Engineered Design Calculation

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

- L2 is the thermal clearance where the temperature of the discharge is less than 200° C
- L3 is the thermal clearance where the temperature of the discharge is less than 75° C

# APPROVED

Prepared By:

Company

PM

FSE