

# Sprinkler Design Data

<b>Project Name:</b> Example Design Data		<b>Building D</b>	
<b>Project Street Address:</b> 1234 Main Street, Raleigh, NC 27602		<b>Bldg. Sq. Ft.:</b> 127,000	
<b>Suite:</b>	<b>Floor#:</b> first	<b>Ceiling Height:</b> 18'	
<b>Designed By:</b> S.E. Berry	<b>Phone:</b> 919 796-9731	<b>Total Bldg. Hgt.:</b> 34'-6"	
<b>Occupancy:</b> Merchantile/ Storage		<b>Hazard:</b> Ordinary Hazard 2/ High Piled Storage	

## Design Summary

Design Method	System #	System #	System #	System #	System #
System Id. No.	System 1	System 2	System 3		
Location	Sales Floor	Warehouse	Loading Dock		
<b>Type of System</b>	<b>Wet</b>	<b>ESFR</b>	<b>Dry System</b>		
Hazard Class	OH 2	Group IV	OH 2		
Criteria From	Area Density Curve	7-9.5.1./cut sheet	Area Density Curve		
<b>Design Area</b>	<b>2500</b>	<b>1200</b>	<b>1950</b>		
K-Factor	8.1	25.2	7.8		
Spacing of heads	12 x 10	10 x 10	12 x 10		
Density	Sprinkler Area	Sprinkler Area	Sprinkler Area		
Hose Allowance	250	250	250		
#Design Sprinklers	21 spks	12 spks	17 spks		
Dry Sys. Vol. in Gal's			738 gal.		
<b>Requints @ Source</b>					
G.P.M. Req'd	568.8 gpm	1345.7 gpm	427.4 gpm		
P.S.I. Req'd	62.8	54.0	59.7		
<b>Safety Factor @ Source</b>					
P.S.I.	14.7 psi	19.8 psi	10.8 psi		

## Water Supply Information

Tested by	MR./MRS. P.E	Date/Time	5-24-22 1:00 PM	Test Hydrant	1234 Main at gate
Hydrant Elevation	220	Flow Hydrant	1299 Main St.	Pressure Zone	495
Static	95 psi	Residual	90 psi	Flow	1540 gpm

Copy of Water Test Data Included with Calculation is required

## Fire Pump Data

Rated G.P.M.	1500	Rated Pressure	70 psi	Diesel Hp.	
Electric Volts	460	Boost Pressure	Boost Pressure	Discharge Flow	x
Residual(psi)	x	Flow(gpm)	x	Combined G.P.M.	x
Combined Static	x	Combined Residual		Suction Node	
				Discharge Node	

**If Storage is Greater than 12 Feet Complete Commodity Storage Design Information**

Commodity Description		Storage Height		Storage Type (Reck,Bin,Pild)		Clearance			
Stable/Unstable		Open/Close Array				Wet/Dry System			
Figure #	Curve #	Density	Height Factor	Clear Factor	Array Factor	Dry Penalty	Design	Minimum Design	Final Design
		Secon-dary							