



2675 Scott Avenue, Suite C
St. Louis, MO 63103
(877) 237-1785

Calculation Riser Placard for **AREA/DENSITY** Designed Systems.

System Design Area: **RA2 - Dock**

At: **Webster ISB**

Contract No.: **461259** Print No.(s): **FP-101.A** Dated: **12/2/16**

This system, as shown on **Ahern Fire Protection** drawing, is designed for **22** sprinklers to discharge at a density of **0.20 GPM/SqFt** over a minimum area of **2,506.00 SqFt** when supplied with water at the rate of **742.16 GPM** at a pressure of **111.26 PSI** at the **base of system riser**.

Occupancy Classification: **HC-2**

Commodity Classification: **N/A**

Inside Hose Stream added at base of riser: **0 GPM**

Outside Hose Stream added at source: **250 GPM**

Standard / Issue: **NFPA 13, 2010**

Antifreeze System Solution: **N/A**

Antifreeze System Capacity: **N/A** Gallons; **N/A%** Antifreeze

Storage Height (max.): **N/A**

Other Storage: **N/A**

General Information	Yes	No
High Pile	☐	☒
Rack Storage	☐	☒
Hazardous Material	☐	☒
Idle Pallets	☐	☒
Flammable/Combustible Liquids	☐	☒
Solid Shelving	☐	☒
Encapsulation	☐	☒
Aisle Width (min.)	_____	Feet

Sprinkler Head Quantity & Type:

Qty.	Make/Vendor	Model/Type	K-Factor	Temp.
9	Viking	VK350	8.0	200° F
2	Viking	VK462	5.6	155° F
8	Viking	VK464	8.0	200° F
9	Viking	VK634	8.0	200 F



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Calculation Riser Placard for **AREA/DENSITY** Designed Systems.

System Design Area: **RA1 - Lobby**

At: **Webster ISB**

Contract No.: **461259** Print No.(s): **FP-102.B** Dated: **12/2/16**

This system, as shown on **Ahern Fire Protection** drawing, is designed for **11** sprinklers to discharge at a density of **0.10** GPM/SqFt over a minimum area of **1,552.00** SqFt when supplied with water at the rate of **426.86** GPM at a pressure of **118.90** PSI at the **base of system riser**.

Occupancy Classification: **HC-1**

Commodity Classification: **N/A**

Inside Hose Stream added at base of riser: **0** GPM

Outside Hose Stream added at source: **250** GPM

Standard / Issue: **NFPA 13, 2010**

Antifreeze System Solution: **N/A**

Antifreeze System Capacity: **N/A** Gallons; **N/A**% Antifreeze

Storage Height (max.): **N/A**

Other Storage: **N/A**

General Information	Yes	No
High Pile	☐	☒
Rack Storage	☐	☒
Hazardous Material	☐	☒
Idle Pallets	☐	☒
Flammable/Combustible Liquids	☐	☒
Solid Shelving	☐	☒
Encapsulation	☐	☒
Aisle Width (min.)	_____	Feet

Sprinkler Head Quantity & Type:

Qty.	Make/Vendor	Model/Type	K-Factor	Temp.
11	Viking	VK634	8.0	155° F



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Calculation Riser Placard for **Standpipe** Systems.

System Design Area: **Entire**

At: **Webster University ISB**

Contract No.: **461259** Print No.(s): **FP-101.A** Dated: **12/2/16**

This system, as shown on **Ahern Fire Protection** drawing, is designed for **500.00** gallons per minute from the most remote standpipe at a minimum pressure of **100.00** pounds per square inch and **250.00** gallons per minute flowing from the remaining **(1)** standpipes for a total flow of **750.00** gallons per minute when supplied with water at the rate of **750.00** gallons per minute at a pressure of **131.63** pounds per square inch at the **fire pump outlet**.

Standpipe Classification: **Class I**

Standard / Issue: **NFPA 14 2010 Edition**

Antifreeze System Solution: **N/A**

Antifreeze System Capacity: Gallons; % Antifreeze



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Calculation Riser Placard for **AREA/DENSITY** Designed Systems.

System Design Area: **Precision**

At: **Webster ISB**

Contract No.: **461259** Print No.(s): **FP-101.B** Dated: **12/2/16**

This system, as shown on **Ahern Fire Protection** drawing, is designed for **7** sprinklers to discharge at a density of **0.10** GPM/SqFt over a minimum area of **583.00** SqFt when supplied with water at the rate of **109.80** GPM at a pressure of **57.92** PSI at the **base of system riser**.

Occupancy Classification: **HC-1**

Commodity Classification: **N/A**

Inside Hose Stream added at base of riser: **0** GPM

Outside Hose Stream added at source: **250** GPM

Standard / Issue: **NFPA 13, 2010**

Antifreeze System Solution: **N/A**

Antifreeze System Capacity: **N/A** Gallons; **N/A**% Antifreeze

Storage Height (max.): **N/A**

Other Storage: **N/A**

General Information	Yes	No
High Pile	☐	☒
Rack Storage	☐	☒
Hazardous Material	☐	☒
Idle Pallets	☐	☒
Flammable/Combustible Liquids	☐	☒
Solid Shelving	☐	☒
Encapsulation	☐	☒
Aisle Width (min.)	_____	Feet

Sprinkler Head Quantity & Type:

Qty.	Make/Vendor	Model/Type	K-Factor	Temp.
7	Viking	VK462	5.6	155
	Viking			
	Viking			