

Daniel L. Ozimek Emergency Services Director

Hkt g'Sprinkler Plan Review Requirements

The following information must be completed before re	view a	nd submit	tted with	permit application
Project Name: Ad	Address:			
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Sprinkler Requirements	OK	Absent	N/A	Comments
An approved site plan by Winston-Salem/Forsyth				
County Planning Department per set of plans (most up				
to date, check for revisions).				
FDC, PIV, system riser and alarm bell location match				
approved utility plan.				
FDC needs to be within 100 feet of a public fire				
hydrant.				
Square footage per permitted area and per system				
shown on the plans.				
All spaces of the structure labeled per use.				
Show, make, model. size, K-factor, temp, style and				
quantity for all sprinkler heads (Includes cut sheets on				
all sprinkler heads and pump data booklets. Pump				
room details must be on the plans. Also, meet all				
requirements of NFPA 20 and NFPA 13).				
Type of system and type of hazard each system is				
designed for on all plans.				
Inspector test and auxiliary drains.				
Show detail of each type of hanger.				
Show accurate freeze protection details.				
Include UL design number when penetrating a rated				
wall and address the freezing issues.				
Show all sprinkler head dimensions. Also show sq ft				
of all rooms when using the small room rule, identify				
all areas with a symbol, S.S.R. is an example (Small				
room rule to be used only in light hazard occupancies).				
Rack: Show rack cross sections and Commodity class				
per NFPA 13 on your plans.				
All buildings with racks must fill out an Owner's				
Information Certificate (NFPA 13 Figure A. 14 .1 (b)).				
Show all sprinkler pipe sizes				
Show all elevation changes of pipe on the plans				
An accurate riser detail (Identify each system).				
Key plan of Zone Map to show the area of the building				
illustrated on the page.				



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Sprinkler Requirements	OK	Absent	N/A	Comments
All attic systems must show a cross section and identify				
all construction materials used.				
Note the construction type per the architectural				
drawings and show a cross section to identify the roof				
construction, canopies and unique areas.				
For different occupancy areas, provide a note including				
how and where each design criteria was derived from.				
Address all elevator rooms or shafts per NFPA 13				
(Sprinklers are required at the top and bottom of the				
shaft. Exception must be called out on plans).				
Label all FDC and standpipes per NC Fire Code and				
NFPA.				
Penetration though any rated wall or floor needs to be				
shown on the plans. Provide a detailed and approved lab				
design number (Must have general note in not				
applicable).				
Show size and locations of all hanging heaters and use				
intermediate according (Must have general note if not				
applicable).				
Show all roll back doors and overhead doors (Must have				
a general note in not applicable).				
Show all skylights, domes, and unusual ceilings,				
including all ceiling slopes (Must have a general note in				
not applicable).				
Show all canopies, docks, and obstructions (Must have a				
general note in not applicable).				
Identify all HVAC ducts and other Obstructions over 4				
ft. (Must have a general note in not applicable).				
Show hydraulic calculation information on the plans for				
each remote area.				
Show all hydraulic reference.				
Dry System- increase all remote areas by 30%. Increase				
remote areas by an additional 30% if slope of the ceiling				
is greater than 2 in 12. Show sloping direction of all				
sprinkler pipes in the dry system. Slope must meet				
minimum requirements of NFPA 13.				
Slope of ceiling (If greater than 2 in 12 or 16.7% and is				
on-storage, your remote area must increase by 30%, need				
cross section to verify).				
A note reflecting maximum sprinkler head spacing for				
each of occupancy shown on the plans.				



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Sprinkler Requirements	OK	Absent	N/A	Comments	
Stages made of anything other than non-combustible					
material, FR wood or other approved methods will					
need to be protected per NFPA 13. All combustible					
concealed spaces must be indicated and addressed per					
NFPA 13.					
Two stapled sets of plans and completion of the form					
with all attachments.					
Name of the person responsible for designing the					
sprinkler plans.					
N.I.C.E.T. or PE stamp must be on the plans.					
Show floor area size of each system. Also show					
volume of all dry systems (C-factor must be 100 for					
all dry systems unless galvanized pipe in your system).					
Remote area is correctly and accurately outlined. If					
reduced, show a cross section and elevations.					
(Example, if the remote area is not exactly 1500sqft,					
shows the actual size on the plans).					
Correct hydraulic calculations with a 10psi safety					
margin and cover sheet that clearly identifies each area					
calculated					
Additional Notes:					
					
The share is not an all included that Discount and all NEDA associations of Discount and the					
The above is not an all-inclusive list. Plans must meet all NFPA requirements. Please refer to the					
current NC Fire Prevention Code for the Version adopte	u.				
Provide contact information for person responsible for the competition of this package:					
1101100 confact information for person responsible for the competition of this package.					
Name: Phone Number:				Date:	



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Fire Sprinkle	er/Standpipe	/Fire Pump Sys	tem Perr	nit App	olication
Business Name:		Site Address	S:		
Property Owner:		Phone:			
System Contractor:		Address:			
System Contractor: License:	Phone:	Fax:		Ema	il:
Building Contractor:		Address:			
Phone:	WS/I	FC Building Permit N	umber:		
		Type of Work			
New Construction	Alteration	Type of Work Addition Up	ofit l	Panel Cha	nge
New Construction		ilding Informatio		i anci Cha	ngc
Square foot	cy Construction tage	Type Types must Number of stories_ , Chapter 3: Obstructe	be based on the Ba	sement Y	or N
		Type of System			
		Antifreeze Deluge			torage
High-P	•	/ater Spray Fire P	-	ıd Pipe	_
		NFPA standards tha			- 0
13 13R	13D		1	6	20
		itoring Informati		VGE' D	
Forsyth County requires		_			
To obtain a permit for a		U 1			
ipplication must have a					
If yes, who is the U		larm system requiring	; a OL Ceitii	icate? 1 C	JI IN
A letter is required stati	•		an approved !	by the III	provider A
copy of the letter must be				by the OL	provider. A
opj of the letter must t	- Submitted with	Fee Schedule	•		
	The fee for sp	rinkler systems review	v is \$120.00		
	*	ther Information			
Plans are reviewed		st-serve basis. Re-rev		reated ac	a firet cultmit
		ne review could take u			
Signature:			-		-
	1	Office Use Only			
Prop. 2242 of -1 1				Dlag - A	
Two sets of plans submi				Plans Ap	provea Y or N
Approved by: Date:	Eee:	Cach:	Charle #		2/12
Jaic	1,66.	Casii	CHECK #:		_ 2/12