

AUTOMATIC FIRE SPRINKLER SYSTEM TECHNICAL SUBMISSION

Project name _____
Project address _____
Owner _____
Occupant _____
Building Official _____
Fire Official _____

Year of Codes and Standards

NFPA 13 _____ ed. NFPA 13R _____ ed. NFPA 13D _____ ed. Building Code _____
NFPA 14 _____ ed. NFPA 20 _____ ed.
Local amendments applied _____ NFPA 72 _____ Other _____

Water flow test information

Date _____ Location _____ Witness _____
Static pressure _____ psi Residual pressure _____ psi Flow _____ GPM
Source _____ Seasonal or local adjustment _____
Water quality investigation (MIC or other) _____ Results _____

Building footprint _____ square feet Building height _____
Number of stories _____ Floor to floor height _____

Water supply Same as domestic _____ Size _____

Type of pipe which can be used _____

Risers _____ Bulk main _____

Cross main _____ Branch lines _____

Type of fittings which can be used _____

Backflow device/s required _____

Fire department connection

Type _____ Location _____

Fire pump and controller

Size _____ gpm @ _____ psi Type of drive _____ Voltage _____

Location of service _____ Generator required _____

Water storage tank required _____ Type of tank _____

Location of tank _____ Size of tank _____

Standpipes required _____

Class _____ Type _____ Location/s _____

Required flows Top most outlet _____ Most remote _____ Total flow _____

Required valves 1 ½ _____ 2 ½ _____

1 ½ " hose required _____

Length of hose _____

Other _____

Page _____ of _____

Signature, seal, date

Area # 1 Type of system _____

Description of use of area or hazard _____

Hazard classification _____ Commodity _____

Design criteria _____ gpm over _____ square feet

Area per sprinkler _____ square feet Stand pipe flow _____

Other water flow

Hose _____ gpm Outside hydrants _____ Special _____ gpm

In rack or special sprinklers _____ gpm Total flow required _____

Fire pump required _____ Submit graph sheet _____ gpm at _____ psi

Project name _____

Project address _____

Area # 2 Type of system _____

Description of use of area or hazard _____

Hazard classification _____ Commodity _____

Design criteria _____ gpm over _____ square feet

Area per sprinkler _____ square feet Stand pipe flow _____

Other water flow

Hose _____ gpm Outside hydrants _____ Special _____ gpm

In rack or special sprinklers _____ gpm Total flow required _____

Fire pump required _____ Submit graph sheet _____ gpm at _____ psi

Area # 3 Type of system _____

Description of use of area or hazard _____

Hazard classification _____ Commodity _____

Design criteria _____ gpm over _____ square feet

Area per sprinkler _____ square feet Stand pipe flow _____

Other water flow

Hose _____ gpm Outside hydrants _____ Special _____ gpm

In rack or special sprinklers _____ gpm Total flow required _____

Fire pump required _____ Submit graph sheet _____ gpm at _____ psi

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Storage areas _____ Type of system _____
Description of use of area or hazard _____

Type of storage and maximum height Pallet _____ Bulk _____
Shelf _____ Bin box _____ Rack _____
Minimum aisles width _____ Maximum rack depth _____

Commodity classification _____ Encapsulated _____

Rack type Single row _____ Double row _____ Multiple row _____ Other _____

Flue spaces Longitudinal required _____ size _____ Transverse required _____ size _____

Ceiling design criteria _____ gpm over _____ square feet

Area per sprinkler _____ square feet Stand pipe flow _____

Other water flow _____

Hose _____ gpm Outside hydrants _____ Special _____ gpm

In rack or special sprinklers _____ gpm Number of levels _____

Location _____ Type _____ Temp. rating _____ Orifice size _____

Fire pump required _____ Submit graph sheet _____ gpm at _____ psi

Required accommodations for building structure _____

Storage areas _____ Type of system _____
Description of use of area or hazard _____

Type of storage and maximum height Pallet _____ Bulk _____
Shelf _____ Bin box _____ Rack _____
Minimum aisles width _____ Maximum rack depth _____

Commodity classification _____ Encapsulated _____

Rack type Single row _____ Double row _____ Multiple row _____ Other _____

Flue spaces Longitudinal required _____ size _____ Transverse required _____ size _____

Ceiling design criteria _____ gpm over _____ square feet

Area per sprinkler _____ square feet Stand pipe flow _____

Other water flow _____

Hose _____ gpm Outside hydrants _____ Special _____ gpm

In rack or special sprinklers _____ gpm Number of levels _____

Location _____ Type _____ Temp. rating _____ Orifice size _____

Fire pump required _____ Submit graph sheet _____ gpm at _____ psi

Required accommodations for building structure _____

The Professional Engineer's Practice Act changed the requirements for signing and preparation of sprinkler plans.

Before a building permit can be issued for a building with a sprinkler system, a technical submission for the sprinkler system has to be submitted and approved. This technical submission has to be signed by an Illinois licensed design professional.

The state law does not indicate the type of information which has to be submitted. The Codes and Standards Committee has developed a form, which can be used for this technical submission. Click on the link for a copy of the form.

After the technical submission has been prepared, this will allow an engineer, other licensed design professional or a NICET III or IV to prepare fire protection system layout drawings (the shop drawings). The NICET III or IV shall be in fire protection technology, automatic sprinkler system layout. The shop drawings have to be consistent with the technical submittal. Any differences have to be resolved between the person that prepared the technical submittal and the person who prepares the shop drawings.

If you have questions about the technical submission or the form contact any member of the Codes and Standards Committee