

D

C

B

A

6

5

4

3

2

1

NEEDED FIRE FLOW CALCULATIONS
(PER NFPA STANDARDS)

BUILDING UNITS		2
BUILDING NAMES/LABELS	BUILDING 1	BUILDING 2
BUILDING CONSTRUCTION TYPE	IIB	IIB
BUILDING SPRINKLER TYPE	QUICK RESPONSE - COMMERCIAL FIRE SPRINKLER HEAD	
BUILDING FLOOR AREA	114,894 S.F.	60,301 S.F.
BUILDING STORIES	1	1
BUILDING HEIGHT	38'-6"	38'-6"
REQUIRED FIRE FLOW	7,250 -75% = 1,812 GMP	5,250-75%= 1,312 GPM
The minimum fire flow is measured at 20 psi (137.9 kPa) residual pressure, must not be less than 1000 gpm. The total length of pipe going into the fire hydrants from the mains are 314 L.F.		

18.4.4.3.3

Required fire flow shall be reduced by 75 percent when the building is protected throughout by an approved automatic sprinkler system, which utilizes quick response sprinklers throughout. The resulting fire flow shall not be less than 600 gpm (2270 L/min).

18.4.4.3.4 Required fire flow for buildings protected by an approved automatic sprinkler system shall not exceedd 2000 gpm (7571 L/min) for 2 hours

18.4.4.4

Required Fire Flow and Automatic Sprinkler System Demand.
For a building with an approved fire sprinkler system, the fire flow demand and the fire sprinkler system demand shall not be required to be added together. The water supply shall be capable of delivering the larger of the individual demands

CLIENT
FOUNDRY COMMERCIAL

COPYRIGHT
This drawing has been prepared solely for the intended use, thus any reproduction or distribution for any purpose other than authorized by Arcadis is forbidden. Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job, and, Arcadis shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to Arcadis for general conformance before proceeding with fabrication.

ISSUES		
No.	DESCRIPTION	DATE

D

C

CONSULTANTS

SEAL

B

CARLO MENDOZA



7000 N Federal Hwy - 2nd Floor
Boca Raton FL 33487 USA
tel 248 936 8000
www.arcadis.com

PROJECT
FOUNDRY - FESTIVAL FLEA
MARKET
Pompano Beach, Florida

PROJECT NO:
NEEDS PROJECT #

DRAWN BY: Author	CHECKED BY: Checker
PROJECT MGR: Designer	APPROVED BY: Approver
03/30/25	

A

SHEET TITLE
FIRE FLOW DATA

SHEET NUMBER AS1-13	ISSUE
------------------------	-------

6

5

4

3

2

1