

## Michael Amodio

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**From:** Martin Grinbank  
**Sent:** Monday, November 16, 2020 10:06 AM  
**To:** Andres Mizrahi  
**Subject:** 10961.00 - Sonata Fire Flow Data  
**Attachments:** 012-Flow Test Results - 6th St.pdf; 013-Flow Test Results - 6th St.pdf; 014-Flow Test Results - 8th Ct.pdf; 015-Flow Test Results - 8th Ct.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Please let me know if this works.



**Martin Grinbank**  
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**From:** Josh Tonnesen <Josh.Tonnesen@CornerstoneGrp.com>  
**Sent:** Monday, November 16, 2020 9:53 AM  
**To:** 'Jim.Galloway@copbfl.com' <Jim.Galloway@copbfl.com>  
**Cc:** Michael Amodio <MAmodio@keithteam.com>; Martin Grinbank <MGrinbank@keithteam.com>  
**Subject:** Sonata Fire Flow Data

Jim,

Good morning. Please see below and attached fire flow data for Sonata's DRC on Wednesday. Thank you,

Josh

Josh Tonnesen  
The Cornerstone Group  
O: 954.362.5721  
C: 815.540.9091

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**From:** Craig Zimmerle [<mailto:craig@sprinklomatic.net>]  
**Sent:** Monday, November 16, 2020 9:23 AM  
**To:** Josh Tonnesen  
**Subject:** RE: exact requirement enclosed

Josh,

Based on NFPA-13(13) and NFPA-13R(13) the water supply is required for a minimum of 30 mins in LH and 60 mins in OH. 13R says there is a minimum of 30 Mins.

NFPA-13(13)

**11.2.3.1.2** The minimum water supply shall be available for the minimum duration specified in Table 11.2.3.1.2.

**11.2.3.1.3** The lower duration values in Table 11.2.3.1.2 shall be permitted where the sprinkler system waterflow alarm device(s) and supervisory device(s) are electrically supervised and such supervision is monitored at an approved, constantly attended location.

**Table 11.2.3.1.2 Hose Stream Allowance and Water Supply Duration Requirements for Hydraulically Calculated Systems**

Occupancy	Inside Hose		Total Combined Inside and Outside Hose		Duration (minutes)
	gpm	L/min	gpm	L/min	
Light hazard	0, 50, or 100	0, 189, or 379	100	379	30
Ordinary hazard	0, 50, or 100	0, 189, or 379	250	946	60–90
Extra hazard	0, 50, or 100	0, 189, or 379	500	1893	90–120

NFPA-13R(13)

**9.2 Minimum.** The water supply shall be capable of supplying the system demand for at least 30 minutes. (See 7.1.1.3.)

**7.1.1.3\* Number of Design Sprinklers.**

**7.1.1.3.1** For each of the following situations, the number of sprinklers in the design area shall be all of the sprinklers within a compartment, up to a maximum of four sprinklers, that require the greatest hydraulic demand:

The (8) story will require a maximum of 750 GPM at a minimum of 60 mins based on the standpipe being OH so the overall requirement is 45,000 Gallons. The standpipe will be the most demanding system on this bldg. as long as there are no car stackers. NFPA only requires us to look at one system demand at a time for the calculations as anymore would be considered a cat

The two (3) stories will require a maximum of 200 GPM at a minimum of 30 mins based on the section above, so the overall requirement is 6,000 Gallons. The most demanding calc is based on up to 4 heads in a compartment.

Let me know if you have any questions.

Craig Zimmerle

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