

**Adequate Water Services - Required Fire Flow-RFF and Available Fire Flow-AFF – (VERSION 02)**

Application Number :
Municipal Address :

Through staff report PW19096 - City of Hamilton Watermain Fire Flow Requirement Design Guidelines Policy on November 27<sup>th</sup>, 2019 Council adopted the new fire flow policy. This form is intended to guide applicants through the documentation requirements of this change. FUS calculations are no longer required for new submissions. This form is supplemental to related and supporting documentation/calculations.

**1 - REQUIRED FIRE FLOW – RFF**

**1 a) Required Fire Flow-RFF a)**

<b><math>Q = KVS_{Tot}</math></b>
Please provide required fire flow-RFF using the water supply flow rate method (OBC section A-3.2.5.7 ; OFM-TG-03-1999 FIRE PROTECTION WATER SUPPLY GUIDELINE FOR PART 3 IN THE ONTARIO BUILDING CODE - 6.3 Buildings Requiring On-Site Fire Protection Water Supply ; <b><math>Q = KVS_{Tot}</math></b> ). This methodology shall be applied to all buildings falling under Part 3 and Part 9 of the Building Code (OBC sections 1.1.2.2 and 1.1.2.4). Detailed calculations shall be submitted as an appended memo.
Enter calculated value here (highest if multiple buildings)  Litres / second
Comments:

**1 b) Required Fire Flow-RFF b)**

<b>Target Table</b>																				
Please select from <b>Table 1 : Target Available Fire Flow</b>																				
<table border="1"> <thead> <tr> <th>Land Use</th> <th>Target AFF (L/s)</th> </tr> </thead> <tbody> <tr> <td>Commercial</td> <td>150</td> </tr> <tr> <td>Small ICI (&lt;1800 m<sup>3</sup>)<sup>1</sup></td> <td>100</td> </tr> <tr> <td>Industrial</td> <td>250</td> </tr> <tr> <td>Institutional</td> <td>150</td> </tr> <tr> <td>Residential Multi (greater than 3 units)</td> <td>150</td> </tr> <tr> <td>Residential Medium (3 or less units)</td> <td>125</td> </tr> <tr> <td>Residential Single</td> <td>75</td> </tr> <tr> <td>Residential Single (Dead End)</td> <td>50</td> </tr> <tr> <td colspan="2"><sup>1</sup> 1800 m<sup>3</sup> represents the maximum building volume that qualifies as "Small ICI"</td> </tr> </tbody> </table>	Land Use	Target AFF (L/s)	Commercial	150	Small ICI (<1800 m <sup>3</sup> ) <sup>1</sup>	100	Industrial	250	Institutional	150	Residential Multi (greater than 3 units)	150	Residential Medium (3 or less units)	125	Residential Single	75	Residential Single (Dead End)	50	<sup>1</sup> 1800 m <sup>3</sup> represents the maximum building volume that qualifies as "Small ICI"	
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<sup>1</sup> 1800 m <sup>3</sup> represents the maximum building volume that qualifies as "Small ICI"																				
Enter applicable value for Target Available Fire Flow (highest value if multiple Land Uses)  Litres / second																				
Comments:																				

**1 c) Required Fire Flow-RFF c)**

<b>Enter higher of a) or b) from above</b>
Enter value here:  Litres / second
Comments:

**Adequate Water Services - Required Fire Flow-RFF and Available Fire Flow-AFF – (PILOT VERSION-01)**

Application Number:
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**2 - AVAILABLE FIRE FLOW - AFF**

**2 a) Available Fire Flow-AFF a)**

<b>Field Hydrant Test calculated at 20 psi</b>	
Please provide available fire flow-AFF as determined through developer hydrant fire flow test or City Hydrant test database.	
Enter value here:	
Litres / second	
Please check:	Developer hydrant fire flow test, or <i>(as directed in FC or thereafter)</i> City Hydrant test database
Comments:	

*OR (as directed in FC or thereafter)*

**2 b) Available Fire Flow-AFF b)**

<b>Computer Modelling</b>	
Please provide available fire flow-AFF as determined through computer modelling.	
Modelling criteria and boundary conditions were approved by Hamilton Water	
Enter value here:	
Litres / second	
Comments :	

**DECLARATION OF ADEQUATE SERVICES**

RFF c) is less than or equal to AFF, or

RFF c) is greater than AFF.

Prepared by:

Date: