

OBC Fire Flow Calculations

Per OBC Div. B A-3.2.5.7.



Project Name: Larry Robinson Arena
Project No: 23211
Client: The City of Ottawa

Designed By: Adam Poapst, P. Eng.
Reviewed By: Francois Lafleur, P.Eng
Date: 2025-03-03

Building Description: Arena

Step		Input	Multiplier	Value Used	Fire Flow (L/min)
A	Water Supply Cofficient (K)				
	Type of construction:	Yes			
	Non-combustible or heavy timber, no fire-resistance rating				
	OBC Group or Division				22
	A-1, A-3<				
B	Building Volume (V)				
	Building Footprint (m ²)	3315			
	Average height (m)	9			
	Total volume (V) (m ³)			29835	
C	Spatial Coefficient Values (S)				
	S North (m)	30	0.00		
	S South (m)	10	0.00		
	S East (m)	30	0.00		
	S West (m)	30	0.00		
D	S Total = 1+[North+South+East+ West] (m)			1.00	
	Water Supply Calculation				
E	$Q = KVS_{Total} (L)$			656,370	
	Required Fire Flow (L/min) (from Table 2)				9000
	Required Fire Flow (L/s)				150

Minimum Storage Required for 2 hr period (L)

1,080,000