

File No.	20-184	Date:	14/10/2020
Project:	Proposed Apartment Buildings	Designed:	Guillaume Brunet
Project Address:	3817-3843 - Innes Road	Checked:	Guillaume Brunet
Client:	Oligo Developemtn	Drawing Reference:	C200 & C300

BLOCK A & C

Term	Options	Multiplier	Choose:	Value	unit	Fire Flow		
Coefficient C related to the type of construction	Wood Frame	1.5	Non-combustible construction	0.8				
	Ordinary Construction	1.0						
	Non-combustible construction	0.8						
	Fire resistive construction <2 hrs	0.7						
	Fire resistive construction >2 hrs	0.6						
Type of housing	Single family dwelling	0	Building - no. of units per floor	12	unit			
	Townhouse - no. of units	0						
	Building - no. of units per floor	2						
	Number of floors excluding the basement						3	floor
	Floor space per unit	1					892	894
Required fire flow	Fire Flow = 220 x C x Area^{0.5}				L/min	9,115		
					L/s	152		
Occupancy hazard reduction or surcharge	Non-combustible	-0.25	Limited combustible	-0.15				
	Limited combustible	-0.15						
	Combustible	0						
	Free burning	0.15					L/min	7,747
	Rapid burning	0.25					L/s	129
Sprinkler reduction	Sprinklers (NFPA13)	-0.30	True	-0.3				
	Water supply is standard for both the system and fire department hose lines	-0.10	True	-0.1	L/min	3,874		
	Fully supervised system	-0.10	True	-0.1	L/s	65		
Exposure distance between units	North side	Over 45m	0					
	East side	10.1 to 20m	0.15					
	South side	Over 45m	0		L/min	4,842		
	West side	20.1 to 30m	0.1	0.25	L/s	81		
Minimum required fire flow rate (rounded to nearest 100)					L/min	4,800		
Minimum required fire flow rate					L/s	80		
Required duration of fire flow					min	30		