

2023 Graham Fire & Rescue Benefit Charge Formula:

Square root of total square footage X 18 X Category Factor X Fire Flow Factor X Response Factor X Risk Factor X Applicable Discount = FBC

Total square footage of structure(s)																						
	400 - 1,799	1,800 - 2,699	2,700 - 3,599	3,600 - 3,999	4,000 - 4,999	5,000 - 7,999	8,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 99,999	100,000 - 139,999	140,000 - 199,999	200,000 - 299,999	300,000 - 399,999	400,000 - 499,000	500,000 - 599,999	600,000 - 699,000	700,000 - 999,999	1,000,000 - and >	
Category Factors:																						
Residential	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70													
Mobile Homes	0.10	0.10	0.10	0.10	0.10	0.10																
Apartments / multi fam	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	4.50	4.50	4.50	4.50	7.50	9.20	13.00	15.00	15.00	15.00	15.00	15.00	15.00	
Commercial	1.10	1.10	1.10	1.10	1.40	1.40	1.40	1.40	1.40	1.40	1.50	1.50	1.60	2.20	3.15	3.40	4.50	4.75	5.00	6.00	10.90	
Fire Flow Factor:	0.3597310000																					
Response Factor:																						
Residential	1.05	<i>Variable to Firefighters Needed to Deliver Needed Water**</i>																				
Manufactured Homes	1.00	1.00	1.00	1.00	1.00	1.00	1.00															
Apartments / multi fam	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	
Commercial	1.30	1.30	1.30	1.30	1.30	1.30	1.80	1.80	1.80	2.70	4.30	4.30	4.30	4.30	4.40	4.40	4.50	4.60	4.60	4.60	4.60	
Risk Factor:***																						
Light Hazard/Regional	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Ordinary Hazard/Regional - 1	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	
Ordinary Hazard/Regional - 2	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
Extra Hazard/Regional - 1	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	
Extra Hazard/Regional -2	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	
Discounts:																						
Automatic Fire Sprinklers	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.900	
Manual Local Alarm	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	0.980	
Manual Central Alarm	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	
Automatic Local Alarm	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	0.970	
Automatic Central Alarm	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	0.925	
Agricultural	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	

**Response factor is based upon the number of firefighters needed to deliver the required fireflow. A base residential response force is 16 firefighters on scene. When a residential property needs more than 16 firefighters to deliver the calculated fire flow, that number is auto calculated using the adopted formula and 50 gallons per minute fire flow delivery per firefighter on scene up to 3,599 square feet and 48 gallons per minute for homes greater than 3,599 square feet

FORMULA: 400-3599(SQ.RT X 18)/50 = FIREFLOW/16 = RESPONSE FACTOR.....>3599(SQ.RT X 18)/48 = FIREFLOW/16 = RESPONSE FACTOR

*** Risk factors apply to commercial property and are defined by the National Fire Protection Association and deal with fire hazards and hazardous materials.

Hazard factors based On NFPA-13