

# The Evolution of the Residential Sprinkler will it ever end?



Flow in GPM for Flat Ceilings

Spacing	Rasco RFC43	Rasco RFC49	Tyco LFII (the III)	Viking Freedom
12' x 12'	12	13	13	13
14' x 14'	13	13	13	13
16' x 16'	13	13	13	14
18' x 18'	18	17	17	17
20' x 20'	21	20	20	23

The Flat Plate, Concealed Sprinklers now have grown to K factors of 4.9. The **RFC49** joins Reliable's Residential lineup.

Who now has the largest K factor sprinkler for NFPA-13 residential applications?

*That would be Reliable!*



For Flat Ceilings

Spacing	RES76 .05 density	RES76 .10 density	RES58 better choice?	RES49 better choice?
12' x 12'	21gpm/7.6psi	21gpm/7.6psi		14.4gpm/8.6psi
14' x 14'	21gpm/7.6psi	21gpm/7.6psi	19.6gpm/11.4psi	
16' x 16'	21gpm/7.6psi	25.6gpm/11.3psi		
18' x 18'	21gpm/7.6psi	32.4gpm/18.2psi		
20' x 20'	23gpm/9.2psi	40gpm/27.7psi		

The new **RES76** pendent, recessed pendent, & CCP adds to the RES58 & RES49 line.

The .10 density is based upon the actual square footage; not the even 2' increments. The minimum pressure is based upon the largest wall wetting distance of the sprinkler at .05. These are for comparison only. As an example: coverage is 12' x 20' = 240 sq. ft. @.10 = 24 gpm/10.0 psi. This would be fine as the pressure exceeds 9.2 psi for the RES76 at 20'.

Pendent & Rec. Pendent	K 4.9	K 5.8	K 7.6
Conical Concealed	K 4.9	K 5.8	K 7.6
Horizontal Sidewall	K 4.4	K 5.8	
Flat Plate Concealed	K 4.3	K 4.9	K 5.6

Who now has the best combinations of K factors for NFPA-13 residential applications?

*Again, That would be Reliable!*