

CERTIFICATE OF COMPLIANCE

Certificate Number EX3646
Report Reference EX3646-20110404
Date 2021-October-11

Issued to: RELIABLE AUTOMATIC SPRINKLER CO INC
1470 Smith Grove Rd
Liberty SC, 29657 US

**This is to certify that
representative samples of** RESIDENTIAL AUTOMATIC SPRINKLERS
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.


Standard(s) for Safety: UL199 Standard for Automatic Sprinklers for Fire-Protection
Service

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up
Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's
Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC



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contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

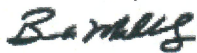
Product Designation(s):

SIN RA3211, 1/2 in. NPT, K = 3.0, RA3212, 1/2 in. NPT, K = 4.3 and RA3216, R402 1/2 in. NPT, K = 4.9, concealed pendent, fusible solder link type heat responsive element rated 165°F, with 135°F rated cover plates. These sprinklers have a maximum pressure of 175 psig for wet systems only for spacings and flow rates as indicated below:

Residential sprinklers for smooth flat ceilings.

SIN	Style	Temperature Rating, °F	K-Factor	Maximum Sprinkler Spacing, ft	Minimum Flow,gpm /Sprinkler	Minimum Flowing Pressure, psig
RA3211 + @	Concealed Pendent	165	3.0	12 by 12	9	9
RA3211 + @	Concealed Pendent	165	3.0	14 by 14	10	11
RA3212 +	Concealed Pendent	165	4.3	12 by 12	12	7.8
RA3212 +	Concealed Pendent	165	4.3	16 by 16	13	9.1
RA3212 +	Concealed Pendent	165	4.3	18 by 18	18	17.5
RA3212 +	Concealed Pendent	165	4.3	20 by 20	21	23.8
RA3216 +	Concealed Pendent	165+	4.9	16 by 16	13	7.0
RA3216 +	Concealed Pendent	165+	4.9	18 by 18	17	12.0
RA3216 +	Concealed Pendent	165+	4.9	20 by 20	20	16.7
R402	Concealed Pendent	165+, 212#	4.9	16 by 16	13	7.0
R402	Concealed Pendent	165+, 212#	4.9	18 by 18	17	12.0
R402	Concealed Pendent	165+, 212#	4.9	20 by 20	20	16.7

+ Sprinkler utilizes 135°F Concealed Cover plates.
 @ Sprinkler utilizes 135°F Decorative Concealed Cover plates.
 # Sprinkler utilizes 165°F Concealed Cover plates.



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Residential sprinklers for sloped ceilings up to 4/12 (in./in.) pitch.

SIN	Style	Temperature, Rating, °F	K-Factor	Maximum Sprinkler Spacing, ft	Minimum Flow,gpm /Sprinkler	Minimum Flowing Pressure, psig
RA3212 +	Concealed Pendent	165	4.3	16 by 16	13	9.1
RA3212 +	Concealed Pendent	165	4.3	20 by 20	21	23.8

+ Sprinkler utilizes 135°F Concealed Cover plates.

Residential sprinklers for sloped ceilings up to 8/12 (in./in.) pitch.

SIN	Style	Temperature, Rating, °F	K-Factor	Maximum Sprinkler Spacing, ft	Minimum Flow, pm/Sprinkler	Minimum Flowing Pressure, psig
RA3212	Concealed	165	4.3	10 x 10	18	17.5
RA3212 +	Concealed Pendent	165	4.3	16 by 16	18	17.5
RA3216	Concealed Pendent	165	4.9	10 x 10	14	8.16

+ Sprinkler utilizes 135°F Concealed Cover plates.

B. Mahrenholz

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