

# CERTIFICATE OF COMPLIANCE

**Certificate Number** EX454  
**Report Reference** EX454-19761019  
**Date** 2023-August-11

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

**This is to certify that  
representative samples of**

SPRINKLERS, AUTOMATIC AND OPEN  
See Addendum Page for Product Designation(s).

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

**Standard(s) for Safety:**

ANSI/CAN/UL/ULC 199, Automatic Sprinklers for Fire-  
Protection Service.

ULC/ORD-C199-2003, ULC Other Recognized Document  
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 indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance 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.

*Deborah Jennings-Conner*

Deborah Jennings-Conner, VP Regulatory Services

UL LLC

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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

Automatic sprinklers incorporating a fusible element having chrome plating, white enamel, plain brass, or any color polyester coating, lead coated, wax coated, or wax over lead coated.

	<u>SIN</u>	<u>Nom. K-Factor</u>	<u>Type</u>	<u>Temperature Ratings</u>
USL	R1015, R1025	5.6 K, +	SSP and SSU	135, 165, 212 and 286°F
USL	R1012, R1011 R1013, R1015 R1016, R1017 R1022, R1021 R1023, R1025 R1026, R1027	Chrome plated, 1.9, 2.8, 4.2, 5.6, 8.0, 11.2K, +	-	135, 165, 212 and 286°F
USL	R1012, R1011 R1013, R1015 R1016, R1017 R1022, R1021 R1023, R1025 R1026, R1027	Black plated, +	SSP and SSU	135, 165, 212 and 286°F
USL	R1012, R1011 R1013, R1015 R1016, R1017 R1022, R1021 R1023, R1025 R1026, R2921	Lead coated, 1.9, 2.8, 4.2, 5.6, 8.0, 11.2 K, +	-	135, 165, 212 and 286°F
USL	R1012, R1011 R1013, R1015 R1016, R1017 R1022, R1021 R1023, R1025 R1026, R2921	Wax coated, +	-	165 and 212°F only
USL	R1012, R1011 R1013, R1022 R1021, R1023	1.9, 2.8 and 4.2 K, +	Pendent and Upright	135, 165, 212 and 286°F
USL	R1016, R1017 R1026, R1027	8.0 K, with 1/2 and 3/4 in. NPT, +	Pendent and Upright	135, 165, 212 and 286°F
USL	R1016, R1013, R1015, R1011	Recessed 8.0 K with 1/2 in. NPT, 5.6, 2.8 and 4.2 K	Pendent Only	135, 165 and 212°F

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USL	R1235	Sidewall, 5.6 K	Horizontal Only	135, 165, 212 and 286°F
USL	R1236, R1237	Sidewall, 8.0 K, 1/2 and 3/4 NPT	Horizontal Only	135, 165, 212 and 286°F
	<u>SIN</u>	<u>Nom. K-Factor</u>	<u>Type</u>	<u>Temperature Ratings</u>
USL	R1233, R1235	Recessed and Sidewall, 4.2 and 5.6 K	Horizontal Only	135°F
USL	R1231, R1233	Sidewall, 2.8 and 4.2 K	Horizontal Only	135, 165, 212 and 286°F
USL	R1265, R1267	Extended coverage horizontal sidewall, 5.6 K with 1/2 NPT and 8.0 K with 3/4 NPT, respectively for area coverage, flow rates, and installation outlined on Page 4-2	Horizontal	135°F
USL	R1267	Extended coverage recessed sidewall, Nom. 8.0 K-Factor utilizing F-1 recess cup for area coverage, flow rates, and installation outlined on Page 4-2	Horizontal Only	135°F
USL	R1015, R1017, R1425, R1427	Intermediate level type, 5.6 and 8.0 K-Factor, with or without Models C-3, C-4, and C-5 guard-shield assemblies.	Pendent and Upright	135, 165, 212 and 286°F
*USL				
USL	R2921	11.2 K by 1/2 or 3/4 in. NPT minimum operating pressure = 7 psig, distance between sprinklers: minimum 6 ft, maximum = 15 ft	Upright	135, 165, 212, and 286

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	SIN	Nom. K-Factor	Type	Temperature Ratings
USL	R2921	11.2 K, wax over lead, wax coated, corrosion resistant	Upright	165, 212, 286
USL	R2921	Lead coated, corrosion resistant	Upright	165, 212, 286
USL	R2111, R2113, R2115	2.8, 4.2, 5.6 K	Concealed Pendent	135, 165°F sprinkler with 135°F cover; 165°F sprinkler with 165°F cover; 212°F sprinkler with 165°F cover
*				
USL	R2112, R2113, R2118	2.8, 4.2, 5.6 K with adjustable inlet feature	Concealed Pendent	135, 165°F sprinkler with 135°F cover; 165°F sprinkler with 165°F cover; 212°F sprinkler with 165°F cover
	R6115, R6118	5.6 K with or without adjustable inlet feature	Concealed Pendent	135, 165°F sprinkler with 135°F cover, 165 and 212°F sprinkler with 165°F cover
USL, CNL	R4613	14.0 K specific application storage sprinkler for NFPA 13	Pendent	165, 212, 286°F
USL, CNL	R4613	14.0 K corrosion resistant specific application storage sprinkler, wax coated, wax over lead	Pendent	165, 212, 286°F
USL, CNL	R4613	14.0 K corrosion resistant specific application storage sprinkler, lead coated	Pendent	165, 212, 286°F
USL, CNL	R6932	K=14 specific application storage sprinkler for NFPA 13	Horizontal Only	165, 212°F
USL, CNL	R7146	K11.2 Concealed QR ECOH	Concealed Pendent	165°F with 135°F Cover
USL, CNL	R7146	K11.2 Concealed QR ECLH	Concealed Pendent	165°F with 135°F Cover

+ - May be used with the Model C-3 guard/shield assembly (upright), or Model C-5 guard/shield assembly (pendent).

  
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