CE

EC DECLARATION OF PERFORMANCE

No. RACO-03

THIS IS TO CERTIFY THAT

THE RELIABLE AUTOMATIC SPRINKLER COMPANY, INCORPORATED
1470 SMITH GROVE ROAD
LIBERTY, SOUTH CAROLINA 29657-0313

HAS COMPLIED WITH ALL THE PRESCRIBED REQUIREMENTS AND OTHER RELEVANT PROVISIONS OF THE

Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the member States relating to the construction products (Construction Products Directive – CPD), as later amended by the Regulation 305/2011/EU of the European Parliament and of the council of 9 March 2011 (the Construction Products Regulation or CPR).

and, all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard (s) EN 12259-1:1999, A1:2001, A2:2004 and A3:2006.

AND IS AUTHORIZED TO MANUFACTURE AND USE THE CE MARKING FOR THE FOLLOWING SPRINKLER PRODUCTS

1. Unique identification code and product type:

Sprinkler Identification Number	CPD Certificate of Conformity No.	Model	Orifice Size (mm)	Mounting Position	Nominal Operating Temperature °C	Finish	Response Class	K-Factor (l/min(bar))$^{1/2}$
RA1418	0786-CPR-40298	F1FR-40	10	Sp	57,68,79,93,141	Plain,Chrm,Color	Quick	57
RA1314	2831-CPR-S2062	F156	15	Sp	57,68,79,93,141	Plain, Chrm, Color	Standard	80
RA1414	2831-CPR-S2062	F1FR56	15	Sp	57,68,79,93,141	Plain, Chrm, Color	Quick	80
RA1325	0786-CPD-40253	F156	15	Su	57,68,79,93,141	Plain, Chrm, Color	Standard	80
RA1425	0786-CPD-40251	F1FR56	15	Su	57,68,79,93,141	Plain, Chrm, Color	Quick	80
RA1375	0786-CPD-40254	F156	15	Cu/p	57,68,79,93,141	Plain, Chrm, Color	Standard	80
RA1475	0786-CPD-40252	F1FR56	15	Cu/p	57,68,79,93,141	Plain, Chrm, Color	Quick	80
R1712	1438-CPR-0041	F1	20	Sp	57,68,79,93,141,182	Plain, Chrm, Color	Standard	115
R1722	1438-CPR-0040	F1	20	Su	57,68,79,93,141,182	Plain, Chrm, Color	Standard	115
R1772	1438-CPR-0039	F1	20	Cu/p	57,68,79,93,141,182	Plain, Chrm, Color	Standard	115
R3612	1438-CPR-0049	F1FR	20	Sp	57,68,79,93,141,182	Plain, Chrm, Color	Quick	115
R3622	1438-CPR-0048	F1FR	20	Su	57,68,79,93,141,182	Plain, Chrm, Color	Quick	115
R3672	1438-CPR-0047	F1FR	20	Cu/p	57,68,79,93,141,182	Plain, Chrm, Color	Quick	115
N/A	0786-CPD-40144	F1S5	15	Sp	68	Plain	Special	80
N/A	0786-CPD-40143	F1S5	15	Su	68	Plain	Special	80
N/A	0786-CPD-40147	F1S5	15	Cu/p	68	Plain	Special	80
N/A	0786-CPD-40146	F1S5	20	Sp	68	Plain	Special	115
N/A	0786-CPD-40145	F1S5	20	Su	68	Plain	Special	115
N/A	0786-CPD-40148	F1S5	20	Cu/p	68	Plain	Special	115

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EC DECLARATION OF PERFORMANCE (CONTINUED)

Sprinkler Identification Number	CPD Certificate of Conformity No.	Model	Size (mm)	Mounting Position	Nominal Operating Temperature °C	Finish	Response Class	K-Factor (l/min(bar))$^{1/2}$
N/A	0786-CPD-40238	F1S5-56	15	Sp	68	Plain	Special	80
N/A	0786-CPD-40143	F1S5-56	15	Su	68	Plain	Special	80
RA2314	0786-CPD-40241	F1S5-FS56	15	Fp	68	Plain	Special	80
RA2214	0786-CPD-40242	F1FR-FS56	15	Fp	57,68,79,93,141	Plain	Quick	80
RA2418	0786-CPR-40307	F1S5-40	15	Sp	57,68,79,93,141	Plain	Special	57
RA2312	0786-CPR-40306	F1S5-FSLO	20	Fp	57,68,79,93,141	Plain	Special	115
RA2315	0786-CPR-40297	F1S5-FS42	15	Fp	68	Plain	Special	80
RA2215	0786-CPR-40296	F1FR-FS42	15	Fp	57,68,79,93,141	Plain	Quick	80
R5314	2831-CPR-S2006	F3 Dry	15	DSP,RDSP,CDSP	57, 68, 93, 141	Plain,Chrm, White	Standard	80
R5334	2831-CPR-S2006	F3 Dry	15	DWH, RDWH	57, 68, 93, 141	Plain, Chrm, White	Standard	80
RA3415	2831-CPR-S2062	G5-56	15	CCP	74, 100	Plain	Standard	80
R1015	1438-CPR-0054	G	15	Sp	57, 74,100, 141	Plain, Chrm, Color	Standard	80
R1025	1438-CPR-0053	G	15	Su	57, 74, 100, 141	Plain, Chrm, Color	Standard	80
R1075	1438-CPR-0052	G	15	Cu/p	57, 74, 100, 141	Plain, Chrm, Color	Standard	80
R1285	1438-CPR-0055	G	15	Wu/p	57, 74, 100, 141	Plain, Chrm, Color	Standard	80
R1077	1438-CPR-0056	G	20	Cu/p	57, 74, 100, 141	Plain, Chrm, Color	Standard	115
R1027	1438-CPR-0057	G	20	Su	57, 74, 100, 141	Plain, Chrm, Color	Standard	115
R1017	1438-CPR-0058	G	20	Sp	57, 74, 100, 141	Plain, Chrm, Color	Standard	115
RA3812	0786-CPD-40282	F1FR	20	Sp	57,68,79,93,141	Plain, Chrm, Color	Quick	115
RA3822	0786-CPD-40283	F1FR	20	Su	57,68,79,93,141	Plain, Chrm, Color	Quick	115
N/A	0786-CPD-40280	F1S5	20	Sp	57,68,79,93,141	Plain	Special	115
N/A	0786-CPD-40281	F1S5	20	Su	57,68,79,93,141	Plain	Special	115
RA3712	0786-CPD-40284	F1FR-FS	20	Fp	57,68,79,93,141	Plain	Quick	115
N/A	0786-CPD-40240	F1/F2/Fp	15	Rp	68, 79, 93	Plain, Chrm, Color		80
N/A	0786-CPD-40280	F1S5	15	Sp	57,68,79,93,141	Plain	Special	115
RA3812	0786-CPD-40282	F1FR	15	Sp	57,68,79,93,141	Plain	Quick	115
RA3712	0786-CPD-40284	F1FR-FS	15	Fp	57,68,79,93,141	Plain	Quick	115
RA4514	2831-CPR-S0074	XL COM	15	Sf	74	Plain	Quick	80
RA4534	2831-CPR-S0074	XL COM	15	Whf	74	Plain	Quick	80
RA3614	0786-CPR-40313	KFR-56	15	Sp	74, 100	Plain, Chrm, Color	Quick	80
RA3624	0786-CPR-40314	KFR-56	15	Su	74, 100	Plain, Chrm, Color	Quick	80
RA3634	0786-CPR-40312	KFR-56	15	Wh	74, 100	Plain, Chrm, Color	Quick	80
RA5422	0786-CPR-40340	KFR-80	20	Su	74, 100	Plain, Chrm, Color	Quick	115
RA5412	0786-CPR-40339	KFR-80	20	Sp	74, 100	Plain, Chrm, Color	Quick	115
RA6222	0786-CPR-40324	F180	20	Su	74, 100	Plain, Chrm, Color	Standard	115
RA6212	0786-CPR-40325	F180	20	Sp	74, 100	Plain, Chrm, Color	Standard	115
RA6322	0786-CPR-40326	F1FR80	20	Su	57,68,79,93,141, 182	Plain, Chrm, Color	Quick	115
RA6312	0786-CPR-40327	F1FR80	20	Sp	57,68,79,93,141, 182	Plain, Chrm, Color	Quick	115
RA6414	0786-CPR-40330	F156-SS&RP	15	Sp	57,68,79,93,141, 182	Stainless	Standard	80
RA6424	0786-CPR-40333	F156-SS	15	Su	57,68,79,93,141,182	Stainless	Standard	80
RA6514	0786-CPR-40331	F1FR56-SS&RP	15	Sp	57,68,79,93,141	Stainless	Quick	80
RA6524	0786-CPR-40332	F1FR56-SS	15	Su	57,68,79,93,141	Stainless	Quick	80
RA6422	0786-CPR-40334	F180-SS	20	Su	57,68,79,93,141, 182	Stainless	Standard	115
RA6412	0786-CPR-40335	F180-SS&RP	20	Sp	57,68,79,93,141, 182	Stainless	Standard	115
RA6522	0786-CPR-40336	F1FR80-SS	20	Su	57,68,79,93,141	Stainless	Quick	115
RA6512	0786-CPR-40337	F1FR80-SS	20	Sp	57,68,79,93,141	Stainless	Quick	115

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2. Intended use/es:

The listed Reliable Sprinklers are to be used in fire suppression systems; all of which have various temperature ratings and elements that operate upon a specified temperature. Once the elements have operated the sprinklers' waterways will open allowing the deflectors to distribute the discharging of water for fire suppression.

3. Manufacturer:

Reliable Automatic Sprinkler Co., Inc.

4. Authorised representative:

Not applicable

5. System/s of Assessment and Verification of Constancy of Performance (AVCP):

System 1

6-A. Harmonised Standard and notifying bodies:

EN 12259-1:199, A1:2001, A2:2004 and A3:2006

7. Declared Performances:

Leak Resistance Test, Clause 4.9, Test method Annex A: **Pass**
Functional Test, Clause 4.6, Including Water Flow Testing, Water Discharge Below Deflector Testing, Water Distribution Testing and Resistance to Heat testing: Test method Annex A: **Pass**
Operating Temperature Test, Clause 4.4, Test method Annex A: **Pass**
Heat Exposure Test, Clause 4.10.1, 4.10.2 & 4.10.3, Including Operating Temperature Testing, Leak Resistance Testing & Functional Testing: Test method Annex A: **Pass**
Thermal Shock Test, Clause 4.11, Including Functinal Testing: Test method Annex A: **Pass**
Strength of Body Test, Clause 4.7.1, Test method Annex A: **Pass**
Strength of Glass Bulbs Test, Clause 4.8.1, Test method Annex A: **Pass**
Strength of Fusible Elements Test, Clause 4.8.2, Test method Annex A: **Pass**
Stress Corrosion, Sulphur Dioxide Corrosion, Salt Mist Corrosion and Moist Air Exposure Test, Clause 4.12.1, 4.12.2, 4.12.3 & 4.12.4, I ncluding Leak Resistance & Functional Testing: Test method Annex A: **Pass**
Resistance to Low Temperature & Coating Resistance to Low Temperature Test, Clause 4.13.2, 4.19 Test method Annex A: **Pass**
Water Hammer Test, Clause 4.14, Including Functional Testing: Test method Annex A: **Pass**

Strenght of Deflector Test, Clause 4.7.2, Test method Annex A: **Pass**
Pressure Resistance of Deflector Test, Clause 4.6.2, Test method Annex A: **Pass**
Thermal Response Test, Clause 4.15, Test method Annex A: **Pass**
Coating Evaporation Test, Clause 4.13.1, Test method Annex A: **Pass**
Resistance to Vibration Test, Clause 4.17, Including Functional Testing, Leak Resitance Testing, Strength of Release Element Testing: Test method Annex A: **Pass**
Resistance to Impact Test, Clause 4.18, Including Leak Risistance Testing & Functional Testing: Test method Annex A: **Pass**

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Notified Certification Bodies:

0786: VdS Schadenverhütung GmbH, Labor für Löschanlagen, Amsterdamerstr. 174 , D - 50735 Köln, Germany
2831: Loss Prevention Certification Board, Glasnevin, Dublin, D11 KXN4, Ireland
1725: FM Approvals Ltd., 1 Windsor Dials, Windsor, Berkshire, SL4 1RS United Kingdom
1438: CENTRUM NAUKOWO-BADAWCZE OCHRONY PRZECIWPOZAROWEJ, UL. Nadwislanska 213, 05-420 Jozefow k/Otwocka, Poland

Dated: 04/15/2020

Josh Bryant
International Approvals Specialist
On behalf of The Reliable Automatic Sprinkler Co., Inc..

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