

Certificate of Compliance

Certificate Number:

UL-US-L15300-569031-
92101202-2

Report Reference:

EX15300-20210129

Issue Date:

2024-08-29

Issued to:

**ASTRAL LTD
207/1 ASTRAL HOUSE
BEHIND RAJPATH CLUB
OFF S G HWY AHMEDABAD, Gujarat 380059
India**

This certificate confirms that representative samples of:
VIWT - Chlorinated Polyvinyl Chloride Sprinkler Pipe and Fittings

See Addendum Page for Product Designation(s).

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

UL 1821, 4th Ed., Issue Date: 2019-07-30

Additional Information:

See UL Product iQ® 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.



David Piecuch
UL Mark Certification Program Manager



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

CERTIFICATE OF COMPLIANCE

Certificate number UL-US-L15300-569031-92101202-2
Report reference EX15300-20210129
Date 2024-08-29

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

Model	Product Description
Astral FIRE PRO CPVC Fittings	Chlorinated PVC Sprinkler Pipe and Fittings
Astral FIRE PRO CPVC Pipe	Chlorinated PVC Sprinkler Pipe and Fittings



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Certificate of Compliance

Certificate Number:

UL-CA-L15300-569131-
92101202-2

Report Reference:

EX15300-20210129

Issue Date:

2024-08-29

Issued to:

**ASTRAL LTD
207/1 ASTRAL HOUSE
BEHIND RAJPATH CLUB
OFF S G HWY AHMEDABAD, Gujarat 380059
India**

This certificate confirms that representative samples of:

**VIWT7 - Chlorinated Polyvinyl Chloride Sprinkler Pipe and
Fittings Certified for Canada**

See Addendum Page for Product Designation(s).

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

UL 1821, 4th Ed., Issue Date: 2019-07-30

Additional Information:

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Chlorinated Polyvinyl Chloride Sprinkler Pipe and Fittings

See General Information for Piping_Sprinkler_System

USE AND INSTALLATION

This category covers chlorinated polyvinyl chloride (CPVC) pipe and fittings intended for use in sprinkler systems in the following types of occupancies:

1. Light Hazard occupancies as defined in NFPA 13, "Installation of Sprinkler Systems."
2. Residential occupancies as defined in NFPA 13R, "Installation of Sprinkler Systems in Low-Rise Residential Occupancies."
3. Residential occupancies as defined in NFPA 13D, "Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes."

CPVC pipe and fittings are not intended to be installed in combustible concealed spaces where sprinklers are required by NFPA 13, 13R or 13D as applicable, unless otherwise stated in the manufacturer's installation and design manual.

CPVC pipe and fittings are intended for use in areas where the maximum ambient temperature does not exceed 150°F. If the ambient temperature is expected to exceed this limitation, refer to the manufacturer's installation instructions for additional information on methods to reduce the pipe exposure temperatures. These pipe and fittings are not intended to be installed in outdoor applications. These products have been found to be suitable for use in plenums in accordance with the "International Mechanical Code," "Uniform Mechanical Code," and NFPA 90A, "Installation of Air-Conditioning and Ventilating Systems."

CPVC pipe and fittings are intended for use in wet pipe systems only unless specifically investigated for use in low-pressure (not exceeding 15 psig), dry-pipe systems as indicated in the individual certifications and the manufacturer's installation and design manual.

Special installation and design criteria relative to pipe hanger spacings, piping and sprinkler restraint, sprinkler temperature rating, piping location, testing procedures and friction loss characteristics are specified in the manufacturer's installation and design manual provided with the pipe.

The manufacturer's installation and design manual should be reviewed and Authorities Having Jurisdiction consulted before installation.

PROTECTION

CPVC pipe and fittings are intended to be installed in applications where protection is provided. The minimum protection shall consist of either (1) one layer of 3/8 in. gypsum wallboard, (2) a suspended membrane ceiling with lay-in panels or tiles having a weight of not less than 0.35 psf when installed with metallic support grids, or (3) 1/2 in. plywood soffits.

In addition to the aforementioned protection, the minimum protection for residential occupancies specified in NFPA 13R or 13D may consist of one layer of 1/2 in. plywood.

CPVC pipe and fittings may be used in applications involving remodeling or ceiling repair provided that appropriate precautions are implemented to properly shield the piping from the protected occupancy.

As an alternative to the protection requirements, CPVC pipe and fittings may be installed without protection (exposed) when subject to the following additional limitations:

1. Exposed piping is to be installed below a smooth, flat, horizontal ceiling construction.
2. Certified quick-response, ordinary-temperature-rated pendent sprinklers having deflectors installed within 8 in. from the ceiling or certified Residential, ordinary-temperature-rated pendent sprinklers located in accordance with their certification and a maximum distance between sprinklers not to exceed 15 ft.

- 3. Certified quick-response, ordinary-temperature-rated horizontal sidewall sprinklers having deflectors installed within 6 in. from the ceiling and within 6 in. from the sidewall or certified residential, ordinary-temperature-rated horizontal sidewall sprinklers located in accordance with their certification and a maximum distance between sprinklers not to exceed 14 ft.
- 4. Where the individual certifications reference installation in unfinished basements for NFPA 13D applications, the manufacturer's instructions provide details relative to the limitations associated with this use, including the construction characteristics of the unfinished ceiling, maximum distance between sprinklers, maximum distance that a sprinkler deflector is allowed to be installed below a wood structural member, and other applicable limitations.

FACTORS NOT INVESTIGATED

Compatibility for this pipe material with other components in fire sprinkler systems has not been investigated. Information obtained from field installations of this piping indicates certain materials or chemicals that come into contact with either the internal or external sprinkler system piping may cause the piping to degrade. The pipe manufacturer should be consulted to obtain any information available relating to material or chemical compatibility.

One of the following product identities appears on the product:

CPVC Sprinkler Fitting

CPVC Sprinkler Pipe

RELATED SERVICES

CPVC sprinkler pipe and fittings certified to NSF 61, "Drinking Water System Components - Health Effects," have been investigated for contact with drinking (potable) water and are covered under Drinking Water System Components (EDNP).

CPVC sprinkler pipe and fittings certified to NSF 372, "Drinking Water System Components - Lead Content," have been investigated for lead (Pb) content and are covered under Lead Content Verification of Products in Contact with Potable Water (QNVB).

ADDITIONAL INFORMATION

For additional information, see Fire Protection Equipment (AAFP).

REQUIREMENTS

The basic standards used to investigate products in this category are ANSI/CAN/UL 1821, "Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service," and UL 1887, "Fire Test of Plastic Sprinkler Pipe for Flame and Smoke Characteristics."

In addition to the requirements of ANSI/CAN/UL 1821, CPVC sprinkler pipe and fittings intended for use in low-pressure (not exceeding 15 psig), dry-pipe systems have also been investigated to UL 1821A, "Outline of Investigation for Thermoplastic Sprinkler Pipe and Fittings for Low Pressure Dry Pipe Applications."

UL MARK

The Certification Mark of UL Solutions on the smallest unit container in which the product is packaged, with or without the UL symbol on the product, is the only method provided to identify products manufactured under its Certification and Follow-Up Service. The Certification Mark for these products includes the UL symbol, the words "CERTIFIED" and "SAFETY," the geographic identifier(s), and a file number.

Alternate UL Mark

The Listing Mark of UL Solutions on the smallest unit container in which the product is packaged, with or without the UL symbol on the product, is the only method provided to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol together with the word "LISTED," a control number, and the product name "CPVC Sprinkler Pipe" or "CPVC Sprinkler Fitting."

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