



CPVC Pipe & Fittings manufactured with **BlazeMaster**<sup>®</sup> CPVC compound are designed specifically for fire sprinkler systems and provide many advantages over traditional sprinkler piping systems.



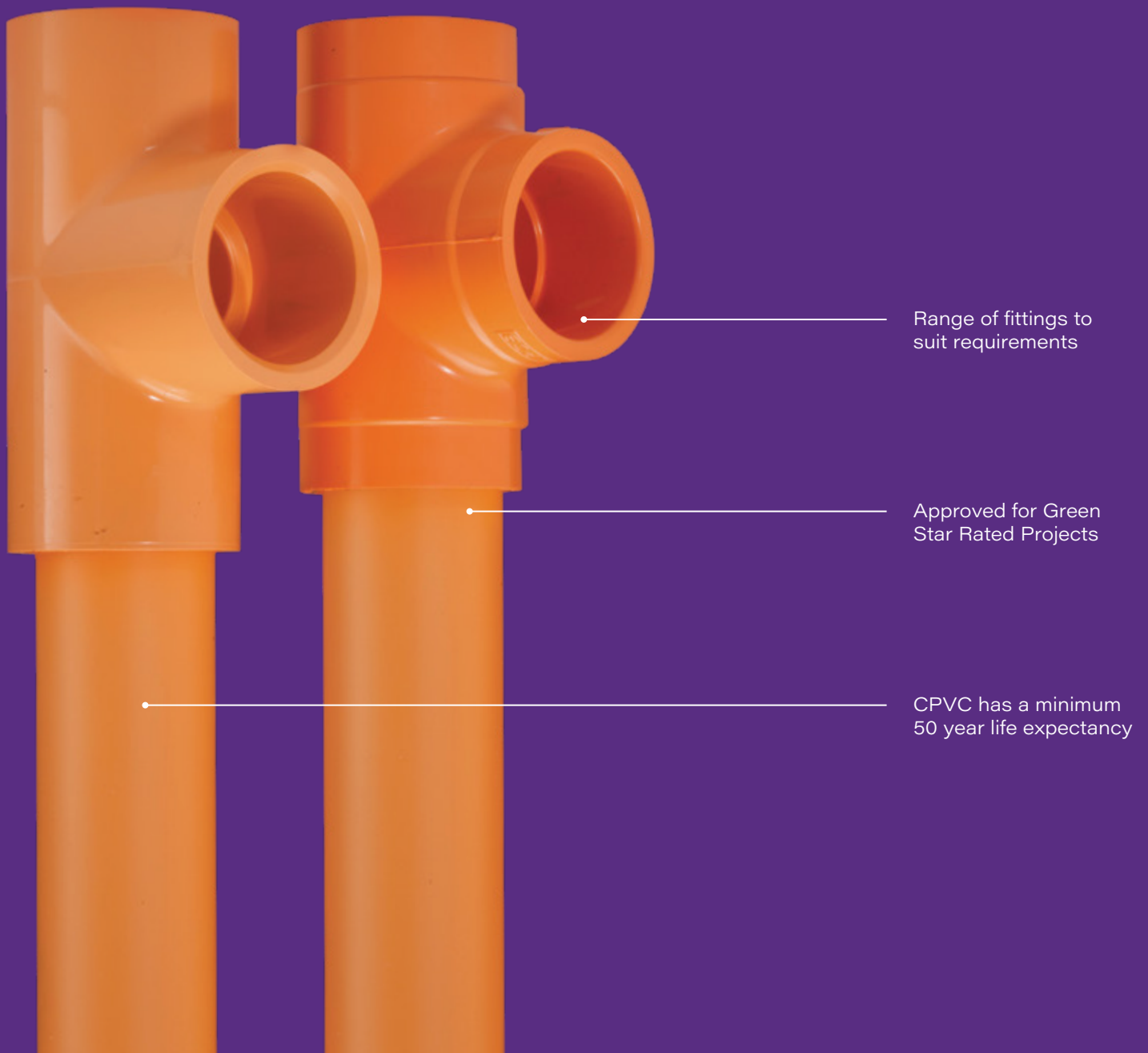
**BlazeMaster<sup>®</sup>** fire sprinkler systems exceed all global performance and manufacturing standards, making it the most specified non-metallic option in the world.

### **Australian Approved**

BlazeMaster<sup>®</sup> CPVC is approved by Standards Australia for Domestic, Residential, Commercial & Light hazard fire sprinkler systems and has been used in Australia since 1991, and in other countries since the early 1980's

### **Product Description**

- Increased hydraulic capabilities
- No pre-cutting and expensive fabrication required
- NSF-pw approved for pressure rated potable water
- Can easily be connected to other sprinkler piping systems
- Flexibility in the piping for greater ease of installation
- Resistant to rust, scale, and foreign contaminant build up
- Inexpensive tools required for installation
- Easily repaired or modified on site
- Easily transported and handled
- Resists sweating and condensation



## CPVC SPECIFICATIONS

### PIPE

CPVC sprinkler pipe conforms to the requirements of ASTM F442 and is produced to SDR 13.5. SDR (Standard Dimension Ratio) is the ratio of the outside pipe diameter to the wall thickness of the pipe. The pipe carries the NSF International (NSF-pw) mark for use in potable water systems.

### FITTINGS

CPVC sprinkler fittings conform to the requirements of ASTM F438 (Schedule 40 dimensions from 3/4 to 1-1/2 inches, DN20 to DN32), ASTM F439 (Schedule 80 dimensions for 1-1/2 to 3 inches, DN40 to DN80) and ASTM F1970 (Transition Fittings).

Female threaded adapters for sprinkler connections contain brass inserts. Fittings carry the NSF International (NSF-pw) mark for use in potable water systems.

### SOLVENT

CPVC socket connections can be joined using TFP-401 or TFP-500 One Step Solvent Cement.

TFP-401 and TFP-500 One Step Solvent Cement meet ASTM F493 and NSF requirements.

Other primers or cements shall not be used with BlazeMaster products because non-approved agents will void the Manufacturer's warranty and product Listings/Approvals.

### PROXIMITY TO HEAT SOURCES

Before penetrating fire rated walls and partitions, consult building codes and authorities having jurisdiction in your area. BlazeMaster systems should be designed and installed so that the piping is not exposed to excessive temperatures from specific heat producing sources, such as light fixtures, ballasts, and steam lines. Pipe shall not be positioned directly over open ventilation grills.

BlazeMaster CPVC pipe and fittings shall be installed in areas where the ambient temperature does not exceed 150°F (65°C). There is no exact minimum distance. BlazeMaster CPVC pipe and fittings should be installed from heat sources.

Minimum distances are a function of the specified heat producing source, the maximum ambient temperature, heat shielding, if any, and proximity of CPVC piping to the above.

### FRICTION LOSS

BlazeMaster CPVC pipe has a Hazen-Williams C-Value of 150. Pipe friction loss calculations shall be made according to NFPA Standards.

### PRESSURE RATING

BlazeMaster pipe and fittings are listed/approved for a rated pressure of 175 psi (12,1 bar) and a maximum ambient temperature of 150°F (65°C).



### BLAZEMASTER<sup>®</sup>

BlazeMaster<sup>®</sup> CPVC fire sprinkler products are now approved for use in "Green Star Rated Projects" in Australia. BlazeMaster<sup>®</sup> CPVC pipes have large internal diameters and low friction loss characteristics (Hazen-Williams C Factor = 150). These factors frequently permit one size smaller pipe to be used than for equivalent size metal systems, this can significantly reduce the cost of a fire sprinkler system.

CPVC is highly resistant to scale build-up and the corrosion and pitting that plagues metal systems. BlazeMaster<sup>®</sup> CPVC has a minimum 50 year life expectancy with a safety factor of two, which greatly reduces long term maintenance costs. Installation of CPVC systems is quick, clean and quiet. Noisy, dirty and potentially dangerous welding, cutting and threading equipment are not required thus providing a quick easy clean up and minimising the risk of damage. BlazeMaster<sup>®</sup> CPVC has low toxicity when compared to other building materials and it does not support combustion.

**METRIC UNITS - DIMENSIONS FOR CPVC PIPE**

Nominal Pipe Size DN	Nominal O.D. Millimetres	Nominal I.D. Millimetres	Empty Weight Kilograms/Meter	Water Filled Weight Kilograms/Meter
DN25	33,4	28,0	0,390	0,100
DN32	42,4	35,4	0,622	1,606
DN40	48,3	40,6	0,816	2,109
DN50	60,3	50,9	1,278	3,310

**PRODUCT RANGE**



\* For information on CVPC pipe length and our complete range contact sales@drillcut.com.au or phone 1800 DRILLCUT (374 552)



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