

CPVC Installation Guide

Congratulations on choosing BlazeMaster® Fire Sprinkler Systems, the world's most specified nonmetallic fire sprinkler system.

We've put together this Guide to help installers. This doesn't replace the manufacturer's installation instructions, but is a list of do's and don'ts that can be helpful in the field.



SEE THE RANGE



BlazeMaster



Easy Installation

If you've used **BlazeMaster**® Pipe & Fittings before, you know how easy it is to work with and install; if this is your first time using it, you'll be pleasantly surprised at how light and flexible it is and how quickly it can be installed.



Approved for Green Star Rated Projects

CPVC has a minimum 50 year life expectancy

Compatibility Notice

CPVC pipe can be damaged by contact with chemicals contained in some construction products, such as:

- Edible oils
- Petroleum or solvent-based sealants
- Lubricants or firestop materials
- Glycol-based antifreeze
- Insulated wire

See FBCSystemCompatible.com for a complete list

INSTALLATION BEST PRACTICES



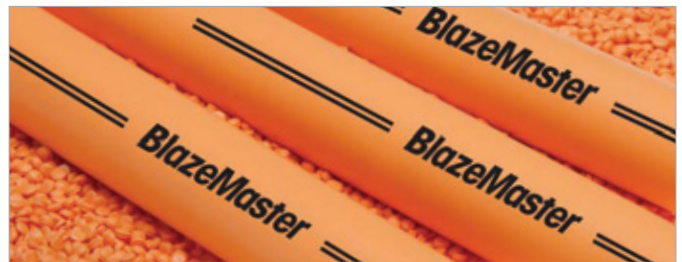
PIPE & FITTINGS STORAGE & HANDLING

- Keep pipe and fittings in original packaging until they are needed.
- Avoid exposing pipe to direct sunlight for long periods of time. Cover pipe with opaque tarp if stored outside.
- Do not use pipe whose color has faded due to prolonged sunlight exposure.

SOLVENT CEMENT BEST PRACTICES

- Wear proper protective clothing, including gloves & safety goggles while using solvent.
- Provide ventilation or NIOSH-approved respirator if necessary.
- Use proper solvent cement & follow application instructions.
- Do not smoke, eat or drink while using.

- Store between 40°-110°F (4-43°C) or as specified on label. Do not store near heat, sparks, open flames or other sources of ignition. Keep containers closed and covered.
- Keep solvent cement from skin, eyes & clothing.
- Do not use solvent cement that has exceeded its shelf life or has become gelled or discolored. Shelf life is two years after the date on the bottom of the can.



SOLVENT CEMENT COLD WEATHER APPLICATIONS

Store bulk quantities in location above 40°F (4°C). If solvent cement gels:

- Bring it into a warm environment (60°-90°F or 16°-32°C) and allow to sit for 24 hours.
- Do not artificially heat
- Shake vigorously before use.

- Apply cement (without dipping back into the can) to inside of fitting socket. On sizes 1¼" (32mm) & larger, dip cement & apply to pipe again.
- Insert pipe end into socket while rotating pipe a quarter turn. Hold 30 seconds.



CUTTING AND JOINING

- Cut pipe squarely, using ratchet cutter wheel-type plastic tubing cutter, power saw or fine-tooth saw.
- Deburr inside/bevel outside of pipe.
- Test fit the pipe.
- First apply cement to outside of pipe

FINISHING TOUCHES

- Do not use Teflon tape & thread sealant simultaneously.
- Install sprinkler head after sprinkler head adapter has been solvent welded. Make sure the water way is not obstructed. Then install sprinkler head.
- Allow for movement due to expansion & contraction, particularly if installing in cold weather.

USING RATCHET CUTTERS

- Use ratchet cutters only at 50°F (10°C) or higher.
- Make sure blades are sharp.



CURE SCHEDULES



Follow manufacturer's recommended cure times prior to pressure testing.

225 psi (1552 kPa) Test Pressure (maximum) Ambient Temperature During Cure Period (Use this table for all cut-ins)			
PIPE SIZE	60°F to 120°F (16°C to 49°C)	40°F to 59° (4°C to 15°C)	0°F to 39°F (-18°C to 4°C)
¾" (20 mm)	1 hr	4 hrs	48 hrs
1" (25 mm)	1½ hrs	4 hrs	48 hrs
1¼" & 1½" (32 & 40 mm)	3 hrs	32 hrs	10 days
2" (50 mm)	8 hrs	48 hrs	Note 1
2½" & 3" (65 & 80 mm)	24 hrs	96 hrs	Note 1
200 psi (1379 kPa) Test Pressure (maximum) Ambient Temperature During Cure Period			
PIPE SIZE	60°F to 120°F (16°C to 49°C)	40°F to 59° (4°C to 15°C)	0°F to 39°F (-18°C to 4°C)
¾" (20 mm)	45 mins	1½ hrs	24 hrs
1" (25 mm)	45 mins	1½ hrs	24 hrs
1¼" & 1½" (32 & 40 mm)	1½ hrs	16 hrs	120 hrs
2" (50 mm)	6 hrs	36 hrs	Note 1
2½" & 3" (65 & 80 mm)	8 hrs	72 hrs	Note 1
100 psi (690 kPa) Test Pressure (maximum) Ambient Temperature During Cure Period			
PIPE SIZE	60°F to 120°F (16°C to 49°C)	40°F to 59° (4°C to 15°C)	0°F to 39°F (-18°C to 4°C)
¾" (20 mm)	15 mins	15 mins	30 mins
1" (25 mm)	15 mins	30 mins	30 mins
1¼" (32 mm)	15 mins	30 mins	2 hrs

Note: For these sizes, the solvent cement can be applied at temperatures below 40°F (4.5°C), however, the sprinkler system temperature must be raised to a temperature of 40°F (4.5°C) or above and allowed to cure per the above recommendations prior to pressure testing.

Follow manufacturer's instructions on pressure testing. Fill lines slowly and bleed the air from the system prior to pressure testing.



✉ sales@drillcut.com.au

🌐 drillcut.au

☎ 1800 374 552

