

# Guide to applications for CPVC fire sprinkler systems



The following is a simple guide to where the system can be used and what limitations apply. In all cases CPVC may only be used for wet, fully pressurised sprinkler systems at an operating pressure of up to 12 bar. Ambient temperatures should be within the range 2°C to 50°C. Fast response sprinkler heads must be used with CPVC piping.

Within the following types of building, the piping may be installed “concealed” without restriction in all suitable locations. Concealed piping is defined as having a barrier that will provide one half hour fire resistance between the protected area and the CPVC piping (for example behind a plasterboard wall board). CPVC can also be installed “exposed” without protection but subject to restrictions. In all cases the detailed manufacturer’s design and installation guide must be followed, and the installation must be carried out by a trained and certified contractor.

Suitable applications	Comments
<input checked="" type="checkbox"/> Houses, apartments and flats	
<input checked="" type="checkbox"/> Care and nursing homes	
<input checked="" type="checkbox"/> Schools and colleges	! Pipes are often concealed to prevent damage
<input checked="" type="checkbox"/> Offices	⊗ Excluding document storage rooms
<input checked="" type="checkbox"/> Hotels	⊗ Excluding kitchens, plant and store rooms
<input checked="" type="checkbox"/> Museums	⊗ Excluding plant and store rooms
<input checked="" type="checkbox"/> Libraries	⊗ Excluding plant and store rooms
<input checked="" type="checkbox"/> Court rooms	
<input checked="" type="checkbox"/> Churches	
<input checked="" type="checkbox"/> Hospitals	⊗ Excluding plant, store and laundry rooms
<input checked="" type="checkbox"/> Prisons	! Pipes are often concealed to prevent damage
<input checked="" type="checkbox"/> Shops - retail areas only	⊗ Excluding sales areas where there is storage
	! Pipes are often exposed and may not be suitable
<input checked="" type="checkbox"/> Restaurants	⊗ Excluding kitchens and store rooms
<input checked="" type="checkbox"/> Theatres and auditoriums	⊗ Excluding stages and prosceniums
<input checked="" type="checkbox"/> Attics not used for storage	
<input checked="" type="checkbox"/> Offshore accommodation	⊗ Excluding kitchens
<b>Examples of unsuitable applications</b>	
<input checked="" type="checkbox"/> Factories and warehouses	! Offices may be suitable
<input checked="" type="checkbox"/> Large stores and shopping malls	
<input checked="" type="checkbox"/> Airports, rail and bus terminals	
<input checked="" type="checkbox"/> Car parks	