

Form 70—fire hydrant and sprinkler system commissioning and periodic test

This form is to be used for the purposes of commissioning fire systems that are required by the *Building Act 1975* and for the maintenance testing requirements in the Queensland Development Code Mandatory Part 6.1.

This form is also to be used in accordance with the 'Fire hydrant and sprinkler system commissioning and periodic maintenance procedure'. Please note that this form does not comprise all testing and maintenance requirements—this form is only for collecting results of testing for some sections of the relevant Australian Standards and in each case, further testing and maintenance is required.

Part A—Test details						
Site name						
Site address						
Contractor		Test date:		Time:		
Test type	Commissioning test:		Maintenance test:			
	fire hydrant	<input type="checkbox"/>	fire hydrant	<input type="checkbox"/>	Annual	5 year
	fire sprinkler	<input type="checkbox"/>	fire sprinkler	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	combined	<input type="checkbox"/>	combined	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Part B—Hydrant hydrostatic test			PASS <input type="checkbox"/>		FAIL <input type="checkbox"/>	
Refer to the required pressure specification for either commissioning or periodic testing (as applicable) as per AS2419.1 or AS1851.						
Boost pressure	kPa	Test pressure	kPa			
Duration of test	mins	End of test pressure	kPa	Loss (if any):	L/min	
Comments:						
Part C—Hydrant test equipment/pressure gauges						
If using more devices, provide details in the Notes section below or complete another form. The correction factor must be kPa or a percentage.						
Flow measuring device	Orifice <input type="checkbox"/>		Mechanical <input type="checkbox"/>		Electro magnetic <input type="checkbox"/>	
	Part C not required for orifice testing		Calibrated: / /		Calibrated: / /	
	Device/gauge 1	Device/gauge 2	Device/gauge 3	Device/gauge 4		
Serial number						
Date calibrated						
Correction certificate						
65/100/150 mm face						
Digital reader						
Increments (kPa)						
Part D—Hydrant system flow test			PASS <input type="checkbox"/>		FAIL <input type="checkbox"/>	
This part relates to section 10.3 of AS2419.1 and for tests under AS1851—Section 4. If pressure/flow rates do not meet the fire system design criteria and there are no on-site problems, contact the relevant water service provider to ascertain if there are any problems with the water system network. In the table below, please record the pressure readings obtained during the hydrant system flow test.						
Hydrant 1 location			Hydrant 3 location			
Hydrant 2 location			Hydrant 4 location			
System requirements	L/s@	kPa	Static pressure	kPa		
Pressure zone number:	Size/flow rate	Device/gauge no. (Part C)	Hydrant 1 only	Hydrants 1 and 2	Hydrants 1, 2 and 3	Hydrants 1, 2, 3 and 4
Nozzles	19 mm		kPa	kPa	kPa	kPa
	22 mm		kPa	kPa	kPa	kPa
	25 mm		kPa	kPa	kPa	kPa
Other portable testing devices	5 L/s		kPa	kPa	kPa	kPa
	10 L/s		kPa	kPa	kPa	kPa
	15 L/s		kPa	kPa	kPa	kPa
	20 L/s		kPa	kPa	kPa	kPa
	30 L/s		kPa	kPa	kPa	kPa
System achieved: L/s @ kPa						

Part E—Pump appliance booster test	PASS <input type="checkbox"/>	FAIL <input type="checkbox"/>
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This part relates to sections 10.4 and 10.5 of AS2419.1 and for tests under AS1851—Section 4. If pressure/flow rates do not meet the fire system design criteria and there are no on-site problems, contact the relevant water service provider to ascertain if there are any problems with the water system network. In the table below, please record the pressure readings obtained during the pump appliance booster test.

Hydrant locations		Height of highest hydrant above booster	m
System requirements	L/s @ kPa	Static pressure	kPa
Pump inlet pressure	kPa	Pump discharge pressure	kPa
Boost pressure	kPa	Calculated frictional loss	kPa

Comments:

Part F—Sprinkler hydrostatic test	PASS <input type="checkbox"/>	FAIL <input type="checkbox"/>
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Relevant required pressure specification in AS2118.1, AS2118.4 and AS2118.6.

Pressure	kPa	Time held	mins
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Comments:

Part G—Sprinkler system flow test
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This section is to be used for sections 4.14 of AS2118.1-1999, 4 of AS2118.6-1995 and 2.2.3(b) and (c) of AS2118.4-1995 and section 2 of AS1851-2005. Notes: (1) For AS2118.1 and AS2118.6 systems, multiple testing points may be required. (2) For AS2118.4, a simulated running test may be required for systems without a flow measuring device, in which the test involves opening a valve to discharge a volume of water that is accepted as being in excess of the design flow. System test points shall be noted for each different system and its location and descriptor.

	System specifications (block plan):	Test results:
Test point 1	Location	
	Required flow rate	L/min <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> L/min
	Required pressure	kPa <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> kPa
Test point 2	Location	
	Required flow rate	L/min <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> L/min
	Required pressure	kPa <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> kPa

Running test	Installation gauge pressure kPa
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Comments:

Part H—Compliance

Critical defects identified	Yes <input type="checkbox"/> Give owner/occupier a critical defect notice No <input type="checkbox"/> No action required in relation to critical defects at this time
Repairs/corrective actions taken	Yes <input type="checkbox"/> Attach details (including action and date taken) as part of Licensee's report No <input type="checkbox"/> No action required in relation to repairs/corrective actions at this time
System	Pass <input type="checkbox"/> Fail <input type="checkbox"/>

Part I—Signature

By signing this Form 70, I confirm that the information contained herein is correct to the best of my knowledge given the information available and that this Form 70 has been completed in accordance with the relevant standards, codes and regulations.

Licensee name	Licensee signature
Licence no. (BSA/PIC)	Licensee report no.

Note: Building owners/occupiers are responsible for ensuring their buildings continuously meet fire safety standards. Where a building owner/occupier becomes aware that their building does not meet the minimum requirements for water pressure required by any standard applicable under the Queensland Development Code Mandatory Part 6.1 (Maintenance of fire safety installations) the building owner/occupier should contact the Queensland Fire and Rescue Service.

Definitions → "Commissioning test" is a test that is required upon completion of a new system of an extension to an existing system. "Maintenance test" means a test that is required under a maintenance standard such as AS1851. "Running test" means a two (2) inch waste test installed at the sprinkler control valve of older systems.

Privacy: The information on this form is collected for purposes related to deciding this application and monitoring compliance under the *Plumbing and Drainage Act 2002*, the *Building Act 1975* and the *Building Fire Safety Regulation 2008* ("legislation"). This information may be stored in the department's database and may be used for statistical research, information provision and evaluation of Plumbing Industry Council and state government services. If you do not wish for this to occur, please contact the department at privacy@dlgp.qld.gov.au. Your personal information will be provided to the financial institution which handles the Queensland Government's EFTPOS transactions and may be disclosed to other government agencies, local government authorities and third parties for purposes related to this application and/or monitoring compliance with the legislation. Except in these circumstances, personal information will only be disclosed to third parties with your consent or in accordance with the *Information Privacy Act 2009*.

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