

## Form 72—fire hydrant and sprinkler system periodic testing and maintenance

This form is to be used for the purposes of maintenance to water based fire safety installations, as required by the Queensland Development Code – Mandatory Part (MP) 6.1, which is a building assessment provision under the *Building Act 1975*, section 30. This form is also to be used in accordance with the 'Fire hydrant and sprinkler system commissioning and periodic maintenance procedure', defined in MP 6.1 as the 'Relevant procedure'. Please note that this form does not comprise all maintenance requirements—this form is only for collecting results for maintenance for some sections of the Australian Standards referred to and in each case, further testing is required.

Part A—Test details						
Site name						
Site address						
Contractor						
Test details	Test date:	Maintenance test: Annual 5 year				
	Time:	fire hydrant	<input type="checkbox"/>	<input type="checkbox"/>	fire sprinkler	<input type="checkbox"/> <input type="checkbox"/>
		combined	<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 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 tests under Section 4 of AS1851. 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 at	kPa	Static pressure	kPa		
On-site pump set installed	Yes <input type="checkbox"/>			No <input type="checkbox"/>		
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 at kPa						

<b>Part E—Pump appliance booster test</b>	<b>PASS</b> <input type="checkbox"/>	<b>FAIL</b> <input type="checkbox"/>
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This part relates to sections 10.4 and 10.5 of AS2419.1 and for tests under Section 4 of AS1851. 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 at	kPa	Static pressure
Pump inlet pressure		kPa	Pump discharge pressure
Boost pressure		kPa	Calculated frictional loss

Comments:

<b>Part F—Sprinkler hydrostatic test</b>	<b>PASS</b> <input type="checkbox"/>	<b>FAIL</b> <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:

<b>Part G—Sprinkler system flow test</b>
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This section is to be used for sections 4.14 of AS2118.1-1999, 4 of AS2118.6-2012 and 6.2 of AS2118.4-2012 and section 2 of AS1851. 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
	Required pressure	kPa
Test point 2	Location	
	Required flow rate	L/min
	Required pressure	kPa
Running test	Installation gauge pressure:            kPa	

Comments:

<b>Part H—Compliance</b>
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<b>Critical defects identified</b>	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
<b>Repairs/corrective actions taken</b>	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
<b>System</b>	Pass	<input type="checkbox"/>	
	Fail	<input type="checkbox"/>	

<b>Part I—Signature</b>
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By signing this Form 72, I confirm that the information contained herein is correct to the best of my knowledge given the information available and that this Form 72 has been completed in accordance with the relevant standards, codes and regulations.

<b>Licensee name</b>		<b>Licensee signature</b>	
<b>Licence no. (QBCC/PIC)</b>		<b>Licensee report no.</b>	

**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 Emergency Service.

**Definitions** → "Maintenance test" means a test that is required under a maintenance standard such as AS1851. "Running test" means a two inch waste test installed at the sprinkler control valve on older systems.

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