

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	Hydraulic Testing and Certification
Test details	Test date: _____ Maintenance test: Annual 5 year fire hydrant <input type="checkbox"/> <input type="checkbox"/> fire sprinkler <input type="checkbox"/> <input type="checkbox"/> combined <input type="checkbox"/> <input type="checkbox"/>
	Time: _____

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				
Details of all devices including devices additional to the ones listed below can be found in the Maintenance Report.				
Flow measuring device	Mechanical flow meter Calibrated: 11 Dec 2021			
	1 - Flow meter 1	2 - Flow meter 2	3 - Pressure gauge 1	4 - Pressure gauge 2
Serial number	DB-01	DB-02	21820120019	21820120016
Date calibrated	11 Dec 2021	11 Dec 2021	02 Jul 2021	02 Jul 2021
Correction certificate	CR-DB-01-IN-01	CR-DB-02-IN-01	DW/10/84810	DW/10/84811
65/100/150 mm face	-	-	100	100
Digital reader	Y	Y	N	N
Increments (kPa)	-	-	1	1

Part D—Hydrant system flow test 1		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	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
Nozzles	19 mm		kPa
	22 mm		kPa
	25 mm		kPa
Other portable testing devices (On-site Hydrant Performance)	5 L/s		kPa
	10 L/s		kPa
	15 L/s		kPa
	20 L/s		kPa
	30 L/s		kPa
System achieved:		L/s at	kPa

Part D—Hydrant system flow test 2							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 (Booster Performance)	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						

Part E—Pump appliance booster test							PASS <input type="checkbox"/>		FAIL <input type="checkbox"/>	
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		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"/>	
Relevant required pressure specification in AS2118.1, AS2118.4 and AS2118.6.										
Pressure		kPa		Time held			mins			
Comments:										

Part G—Sprinkler system flow test						
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		Pass <input type="checkbox"/>	Fail <input type="checkbox"/>	L/min
	Required pressure	kPa		Pass <input type="checkbox"/>	Fail <input type="checkbox"/>	kPa
Test point 2	Location					
	Required flow rate	L/min		Pass <input type="checkbox"/>	Fail <input type="checkbox"/>	L/min
	Required pressure	kPa		Pass <input type="checkbox"/>	Fail <input type="checkbox"/>	kPa
Running test	Installation gauge pressure:		kPa			

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 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.			
Licensee name	Daniel Barwick	Licensee name	
Licence no. (QBCC/PIC)	RPEQ 16239	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 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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