

Form 71—fire hydrant and sprinkler system commissioning

This form is to be used for the purposes of commissioning 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 testing requirements for commissioning—this form is only for collecting results of testing 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						
Testing details	Test date:	Commissioning test:				
	Time:	fire hydrant <input type="checkbox"/> fire sprinkler <input type="checkbox"/> combined <input type="checkbox"/>				
Part B—Hydrant hydrostatic test						
PASS <input type="checkbox"/> FAIL <input type="checkbox"/>						
Refer to the required pressure specification for commissioning as per AS2419.1.						
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. 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	

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. 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. 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 71, I confirm that the information contained herein is correct to the best of my knowledge given the information available and that this Form 71 has been completed in accordance with the relevant standards, codes and regulations.							
Licensee name				Licensee signature			
Licence no. (QBCC/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 Emergency Service.

Definitions "Commissioning test" is a test that is required upon completion of a new system or an extension to an existing system. "Running test" means a two inch waste test installed at the sprinkler control valve on older systems.

Privacy: The information on this form is collected for purposes related to 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. Your personal information may be disclosed to other government agencies, local government authorities and third parties for purposes related to this application. Except for these circumstances, personal information will only be disclosed to third parties with your consent or in accordance with the *Information Privacy Act 2009*.

RTI: The information collected on this form will be retained as required by the *Public Records Act 2002* and other relevant Acts and regulations, and is subject to the Right to Information regime established by the *Right to Information Act 2009*. If you have any further questions regarding your privacy, please email Building Codes Queensland on buildingcodes@qld.gov.au © The State of Queensland (Department of Housing and Public Works) July 2014. Published by the Queensland Government July 2014, 41 George Street, Brisbane QLD 4000.