

Fire Safety Systems

Routine Inspection and Testing

Expectations of Your Service Provider

FIRE SERVICES

PLUMBING & GAS

ELECTRICAL SERVICES

PASSIVE FIRE SERVICES

AS 1851 - HOW DOES IT WORK?

AS 1851-2012 (current applicable edition), is the Australian Standard for the routine servicing (inspection, testing, preventative maintenance and survey) of fire protection systems and equipment.

The objective is to maintain the reliability of fire protection systems and equipment such that they continue to meet the requirements of the approved design. The documentary evidence resulting from compliance with this standard is intended to support the responsible entity to satisfy regulatory obligations.

PROCESS AND PROCEDURES

Routine service procedures shall be carried out in accordance with the relevant testing items of the AS 1851-2012 (Sections 2 to 14). Following the completion of these service procedures, it is a requirement that a service log book is completed and signed by the attending technician for some of these assets, where others have a tag stamped or marked with a service report to be provided to the client within 1 week of the service procedure being completed.

AS 1851-2012 TABLES

Each fire system asset has a unique table outlining the testing requirements required. Where assets require more than one testing table based on the stipulated frequencies for testing (monthly, 6 monthly and annual for example), these are shown under the same section but with additional tables

For example, a monthly routine inspection table of items for a sprinkler system is different to the requirements of a six monthly or annual inspection as these will involve additional testing steps.

AS 1851 Section	Asset	
2	Sprinklers	
3	Fire Pump sets	
4	Fire Hydrants	
5	Water Tanks	
6	Fire Detection	
7	Special Hazards	
8	Lay Flat Hoses	
9	Fire Hose Reels	
10	Fire Extinguishers	
11	Fire Blankets	
12	Passive Systems	
13	Mechanical Services	
14	Emergency Planning	

Page 2

Source: AS1851-2012

ROUTINE SERVICE ACTIVITY FAILURE

DEFECTS

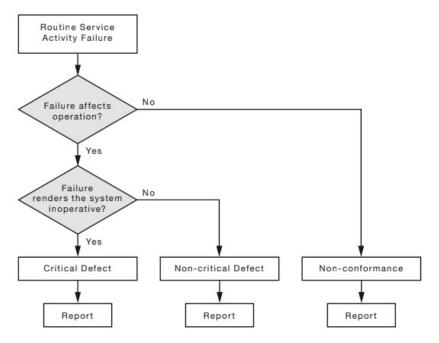
The responsible entity shall be notified of critical defects before leaving site, or where this cannot be achieved, as soon as possible. **Critical defects shall be confirmed in writing within 24 h of the defect identification.**

DEFECT CLASSIFICATION

Critical defect - A defect that renders a system inoperative. An example being an inoperative fire panel that would not warn the building occupants in the event of a fire.

Non-critical defect - A system impairment or faulty component not likely to critically affect the operation of the system. An example being an external fire bell not operating.

Non-conformance - Missing information or incorrect feature that does not affect the system operation but is required to facilitate ongoing routine service. An example being a missing spare sprinkler heads.



SERVICE PROVIDER CAPABILITIES

WHO IS ACTUALLY PERFORMING THE SERVICING?

Whilst it may be assumed that the your fire service provider of choice would have all the capabilities to perform all of the required routine servicing, this is not always the case.

A fire service provider may be well equipped to attend to fire panel testing for example, however they may need to rely on subcontractors conduct the wet fire system testing or reactive maintenance or visa versa.

Another factor to consider, is what level of competence your fire service provider has. You would expect that the service technician conducting the testing on a fire asset can competently complete all of the required testing items as per the stipulated tables in the AS 1851-2012.

An common example of this a fire hydrant technician may check all above ground hydrant valves but fail to check the inground hydrant valves as per item 3.2 of table 4.4.3 of AS 1851-2012 (annual service). The result could present an incorrect reading for hydrant flow and pressure testing.

QUESTIONS TO ASK YOUR PROPOSED FIRE SERVICE PROVIDER

- Q: Do you intend to outsource any of the required routine inspection and testing up to and including the annual servicing?
- Q: What accreditations does your organisation hold and what affiliations with professional industry organisations do you have.
- Q: Do you have a genuine after hours reactive service that operates 24/7 and is monitored locally?

SOME EXAMPLES OF PROFESSIONAL FIRE INDUSTRY ORGANISATIONS







ANNUAL DOCUMENTATION

ARE ALL SECTIONS OF THE AS-1851 BEING COMPLETED?

It is clearly stated what assets require testing and how frequently in the AS 1851-2012. To confirm this, your fire service provider should be providing you with a *yearly condition report* conforming that all systems have been tested in accordance with the standard and highlights any current defects raised that are outstanding.

Example yearly condition report.

		5	STEM CONDITION REP	ORI		
Report Number	er:	000531				
Period covere	ed:	01/09/2020	to 01/09/2021			
Responsible E	Entity:					
Property Nam	ie:					
Property Addr	ress:					
Systems Mai	intained		Maintenance Standards	Installat	ion Standards (where known)	
Fire Detection	n Systems		AS1851-2012 Section 6	AS-1670		
Fire Doorsets - Hinged & Pivoted Fire Extinguishers			AS1851-2012 Section 12	AS-1905	AS-1905.1 AS-2444	
			AS1851-2012 Section 10	AS-2444		
Fire Hose Re	els		AS1851-2012 Section 9	AS-2441	AS-2441	
	Systems		AS1851-2012 Section 4	AS-2419		
Fire Hydrant 9	Dystems .					
Fire Blankets Statement:	I confirm that the sy sections of AS 185 has been found to b	1 for the period list		items detailed below	ed and surveyed, to the applicabl	
Fire Blankets	I confirm that the sy sections of AS 185 has been found to be	1 for the period list	bove has been regularly inspected above. With the exception of	ed, tested, maintain items detailed below to the design Standa	ed and surveyed, to the applicabl	
Statement: System De	I confirm that the sy sections of AS 185 has been found to be	1 for the period list	bowe has been regularly inspected above. With the exception of cetty and capable of performing	ed, tested, maintain items detailed below to the design Standa	ed and surveyed, to the applicable in 'system defects', the system rds nominated.	
Statement: System De	I confirm that the sy sections of AS 185' has been found to t efects	1 for the period list	bowe has been regularly inspected above. With the exception of cetty and capable of performing	ed, tested, maintain items detailed below to the design Standa Status De	ed and surveyed, to the applicable in 'system defects', the system rds nominated.	
Statement: System De Product 1 Contractor	I confirm that the sy sections of AS 185' has been found to t efects	1 for the period list	bowe has been regularly inspected above. With the exception of cetty and capable of performing	ed, tested, maintain items detailed below to the design Standa Status De	ed and surveyed, to the applicable in 'system defects', the system drds nominated. Feet ID Defect Severity	
System De Product 1 Contractor Name: Signature:	I confirm that the sysections of AS 185 has been found to be fects Type 's representative:	1 for the period list	bowe has been regularly inspected above. With the exception of cetty and capable of performing	ed, tested, maintain items detailed below to the design Standa Status De	ed and surveyed, to the applicable in 'system defects', the system drds nominated. Feet ID Defect Severity	
Statement: System De Product 1 Contractor Name:	I confirm that the sysections of AS 185 has been found to be fects Type 's representative:	1 for the period list	bowe has been regularly inspected above. With the exception of cetty and capable of performing	ed, tested, maintain items detailed below to the design Standa Status De	ed and surveyed, to the applicab in 'system defects', the system rds nominated.	

ITEMS TO LOOK OUT FOR IN YOUR BUILDING

PASSIVE FIRE

Historically a 'grey area' in the industry in WA is Passive Fire, more commonly know as 'penetration seals'.

Main building services, (fire hydrant pipes, electrical/data cables etc), may run through a central building riser across multiple levels within your building.

Typically, these services should be fire sealed at each level where they penetrate a fire rated floor or fire wall if they return and service a particular floor.

These seals require a certain type of product to be used and this will depend on the type of type of service present. These products have been tested or assessed by NATA accredited laboratories or independent Fire Testing Organisations and comply with the relevant Australian Standard (AS4072.1) and the NCC (National Construction Code).

If a product has been used that has not been tested or assessed to these codes, then it may not be compliant and could present a lift risk in the event of a fire.

Just because a 'fire rated sealant' has been used on one building service, it doesn't necessarily mean it can be used on another service.

EXAMPLE OF INCORRECT FIRE SEALING



EXAMPLE OF CORRECT FIRE SEALING



ITEMS TO LOOK OUT FOR IN YOUR BUILDING

FIRE/SMOKE DOORS

Common building area fire and smoke doors are required under section 12 of AS1851-2012 to be inspected every 6 months. An inspection label should be located on the hinge side internal edge of the door which shows the date of inspection.

Fire and smoke doors act as important components in fire separation and safe evacuation of occupants in the event of a fire.

APARTMENT ENTRY DOORS

Apartment entry doors in a residential building may be fire rated. These doors should be inspected every 12 months and documented the same way as the common area fire and smoke doors.

GENERAL REQUIREMENTS

A fire door must:

- * Self close (Critical)
- * Self latch (Critical)
- Not be wedged open for convenience purposes

EXAMPLE OF INSPECTION LABEL



FIRE DOORS SHOULD NOT BE WEDGED OPEN



We pride ourselves on service, reliability communication and quality. As a result, we are honoured to work with some of the industry leading professional organisations.























We would be more than happy to assist further with any queries you may have through our preferred contact methods below.



(08) 9206 0017



admin@banhamswa.com.au



www.banhamswa.com.au





