

FIRE PROTECTION ASSOCIATION



Register of Fire Alarm Equipment

***Issue 3
Revision 1
12/02/07***

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E&OE

1. Introduction

This Register of Certified Product (“Register”) lists Fire Alarm Products and Components that have been formally issued with a laboratory appraisal certificate, as complying with the requirements of NZS 4512 and/or a standard directly cited by NZS 4512.

Listings are also included for items which have been certified/listed by the relevant overseas listing agencies as compliant with standard(s) cited in NZS 4512 as acceptable for that product type.

Listings are also included for items which have been formally certified as above at the time of first listing, then manufacturer self-certified by formal declaration for either ongoing upgrades or changes necessitated by amendments to governing standards.

Each listing details the basis on which that listing has been accepted.

This Register is published by the Fire Protection Association (New Zealand) Incorporated (FPANZ) on behalf of the New Zealand Fire Equipment Association Incorporated (NZFEA), under a memorandum of understanding by which Fire Protection Inspection Services Limited (FPIS) have undertaken responsibility for independent technical control of this Register.

This Register has been produced for reference by:

- Territorial Authorities
- NZ Fire Service
- Architects
- Consultants
- Designers
- Installation, Maintenance and Testing Contractors
- Building owners
- Importers
- Manufacturers
- Accredited Inspection Bodies
- Standards New Zealand

The Register is intended to be used for both new installations to the latest standards, and for the upgrade and extension of historic systems to prior versions of standards.

For clarity, Equipment Listings are presented in two separate sections: Section A for New Installations to NZS 4512:2003, and Section B for Historical Approvals to prior standards. Appropriate Compatibility Details (as supplied by the manufacturer) are included in both sections.

2. Legislative and Standards Background

(NOTE: all clause numbers refer to NZS 4512:2003. The full provisions of the standard should be read in conjunction with the summary supplied below.)

The “Acceptable Solutions” of the New Zealand Building Code (NZBC) Approved Documents call up NZS 4512:2003 for Fire Alarm Systems.

NZS 4512:2003 has specific requirements for fire alarm system equipment compliance. A summary of these requirements is as follows:

107.1(d) requires fire alarm system components and equipment to be *listed*.

405.1.1 specifically requires fire detectors to be *listed*.

Listed is defined in 104 as follows:

Equipment, components and materials that have been approved and listed for fire protection purposes by a recognised test and approval body, and which conform with the requirements of this Standard.

A note to this same definition recognises that the Fire Protection Association of New Zealand maintains a Register of listed equipment, components and materials.

107.1 (a) and (b) require fire alarm installation to be in conformity with the manufacturer's instructions.

The definition of *manufacturer* in 104 assigns responsibility "for designating types and makes of components which may be connected to the control unit and the correct method of connection" to the manufacturer or importer of the control unit of the fire alarm system.

506 and normative appendix J "certificate of completion" in 6 (c) asks for equipment *appraisal certificate* numbers.

NOTE: For practical reasons, Register listing numbers are currently used instead of individual test laboratory *appraisal certificate* numbers.

Appraisal Certificate is defined in 104 as follows:

A certificate, containing detailed testing results supporting a technical opinion that a specifically identified fire alarm system complies with the requirements of this Standard, and which has been issued by laboratory accredited for that purpose. Laboratories which have been appropriately accredited to NZS ISO/IEC 17025 by an internationally recognised accreditation organisation are deemed to satisfy this requirement.

107.1(e) and 506 require a certificate of completion from an Accredited Inspection Body for new installations. This is also required for extensions to systems where additional zones are added or the zone control unit is upgraded or replaced.

NOTE: For this reason the historical approvals and compatibility detail listings of the Register are required.

107.4 contains "deemed to comply" provisions for the upgrade of systems installed to previous standards.

107.5 prohibits the intermixing of system components from multiple manufacturers unless such options are permitted by the manufacturer in published instructions (e.g. Compatibility Details listings in this Register).

D8.2 specifies colour coding for heat detector temperature classifications as follows:

Range within:

54°C - 61°C	Blue
62°C - 71°C	Red
72°C - 80°C	Yellow
81°C - 105°C	Green
106°C - 121°C	White
above 121°C	Black

3. Operation of the Register

In order to maintain a consistent, workable, and readily accessible system, available to the whole industry, the NZFEA has agreed by memorandum of understanding between the various parties that:

- a) FPIS (or their agreed nominee) shall provide independent technical review of applications for listing made by manufacturers, and shall maintain technical editorial control of the Register, subject to the guidelines and procedures specified below,
- b) Only certified products will be accepted for listing. Product certification will be achieved via an appraisal certificate from a recognised test laboratory or suitable evidence of overseas agency listing for all new product. Self certification may be acceptable for subsequent changes to listed product,
- c) FPANZ shall provide clerical/secretarial and publishing/subscription services to facilitate the widespread distribution and regular updates of the Register, and
- d) Manufacturers or importers shall make application for listing of products in the Register according to the procedures and criteria specified below, and shall supply and maintain compatibility details for the equipment listed.

Any equipment manufacturer or importer is eligible to apply for listing, subject to the procedures and criteria listed below.

The Register is publicly available on a paid subscription basis. Cost-recovery charges are also levied on manufacturers requesting product listings.

Technical operation and publication of the Register is independent of the equipment manufacturers and importers. The NZFEA sponsorship simply allows for operational transfer to another party in the unlikely event of either FPIS or FPAZ being unable to continue to fulfil their obligations under the memorandum of understanding.

4. Subscriptions and Updates

All enquiries regarding subscriptions and copyright shall be referred to:

The Executive Director
Fire Protection Association NZ Inc
Private Box 302372, North Harbour
Auckland 1330

Telephone: (09) 414 4450
Facsimile: (09) 414 5707
Email: fpanz@fireprotection.org.nz

Additional copies of this Register are available on payment of the applicable charge.

Subscriptions to the full amendment service are available on payment of the applicable annual charge.

5. Charges

Charges will be made by FPAZ for subscriptions to the Register, for listings, and for provision of the annual amendment service as follows:

- New Copies of the Register \$200 each (postage included)
- Annual charges for the full amendment service is \$175 (postage included)
- Initial inclusion fee of \$225 for manufacturers listing for the first time (\$150 for FPAZ members)
- Annual review of listed items \$300 per manufacturer (\$200 for FPAZ members)
- Initial listing fees for individual items, all submitted together, as follows:

	FPAZ Members	Non FPAZ Members
1 item	\$100	\$150
2 items	\$180	\$270
3 items	\$240	\$360
additional items	\$ 50 each	\$ 75 each

Charges will be made by FPIS for technical assessment of applications for listing, and amendments to existing listings as follows:

- Listing of a panel and other item(s) supported by a laboratory test/appraisal report \$200 (covers all items on one report)
- Listing of detector(s) and/or peripheral devices supported by a laboratory test/appraisal report \$100 (covers all items on one report)
- Listing of a detector already approved to an acceptable overseas standard and supported by an overseas agency listing \$50 (covers all items on one listing certificate)
- Assessment of amendment/upgrade to an existing listed panel supported by a manufacturer's declaration \$200

- Assessment of amendment/upgrade to an existing detector or peripheral device supported by a manufacturer's declaration \$100
- Assessments of multiple items all submitted together \$negotiable
- Where manufacturer site visits are required to inspect records or are otherwise considered necessary these will be at the discretion of the independent technical advisor, and this service will be charged at the current hourly rate of the independent technical advisor plus disbursements.

Note if an application is rejected for any reason, FPIS reserves the right to charge additional fees (based on actual time and costs) for a reassessment

All charges are in New Zealand Dollars, are exclusive of GST, and are subject to change.

6. Annual Review

Technical and administrative reviews of the Register will be undertaken annually by the technical editor and/or publisher to revalidate its contents and enable deletion of obsolete products or non-trading manufacturers.

Manufacturers who do not return the necessary documentation after three (3) requests and/or do not pay the applicable charge(s) detailed in section 5 will have their listing marked "OBSOLETE", and after 12 months deleted.

7. Copyright

Copyright of this Register is held by FPANZ as publisher. All rights are reserved. The Register may not be copied or reproduced in any way, either in whole or in part, without the express permission of FPANZ, obtained through the Executive Director.

8. Responsibility

The individual manufacturers or importers are responsible for Equipment listings and the accompanying Compatibility Details of listings. The technical advisor is responsible for reviewing and authorising the listing.

9. Disclaimer

This Register details the listing status of products and components current at the time of issue. This listing status is subject to change without notice at any time.

The currency and validity of any particular copy of the Register is dependant on multiple factors, including ongoing payment of subscription fees, postal services, and timely and correct filing of updates.

Listing in this Register does not imply any warranty whatsoever by the publishers or their technical advisors as to the field performance of products, systems, or components listed.

Listing in this Register does not imply any warranty whatsoever by the publishers or their technical advisors against any defect or failure in service of products, systems, or components listed.

Listing in this Register does not imply any responsibility whatsoever by the publishers or their technical advisors in regards to patents or other features or conditions applying in respect of any products, systems, or components listed.

Neither the publishers nor their technical advisors, nor any of their officers or employees shall be liable to any person or company for anything contained or implied in, or omitted from, this Register or any update of any part of it.

10. Listing procedures and administration of the Register

10.1 Procedures for a manufacturer to obtain “listing” in the Register

All enquiries for amendments, alterations and additions to listings shall be referred to FPANZ in the first instance for administration purposes:

The Executive Director
Fire Protection Association NZ Inc
Private Box 302372, North Harbour
Auckland 1330

Telephone: (09) 414 4450
Facsimile: (09) 414 5707
Email: fpanz@fireprotection.org.nz

These details will then be passed on to FPIS.

The general manager FPIS, or his/her duly authorised delegate, is responsible for technical review of all applications made by manufacturers for listing of equipment and components.

Supporting documentation and/or a formal Manufacturer's Declaration as applicable according to the criteria below shall accompany each application for listing.

Listing is open to any equipment manufacturer (or importer) who meets the criteria.

10.2 Criteria for obtaining product listing in this Register

10.2.1 For listing new products

For detectors, other than heat detectors to NZS 4512:2003 Appendix D, suitable evidence of compliance with the relevant international standard(s) as listed in NZS

4512:2003 section 216. This shall be in the form of an overseas approvals agency listing certificate.

For all other items, including control and indicating equipment, and heat detectors to NZS 4512:2003 Appendix D a full appraisal certificate from a recognised test laboratory (e.g. OPUS Central Laboratories, CMIT Australia) to the appropriate parts of the applicable standard.

10.2.2 For amendments/upgrades to existing listed products

A Manufacturer's Declaration in the form detailed below, and a full appraisal certificate from recognised test laboratory (as above) of the originally listed equipment.

Alternatively one or more partial laboratory appraisals of the changes made relative to an original appraisal, plus the original appraisal test report(s).

Alternatively a full laboratory appraisal certificate may be supplied as though it was a new listing.

11. Manufacturer's Declaration

A Manufacturer's Declaration is a form of self-certification. It requires the manufacturer to make a formal legal declaration and to hold and maintain a Technical File capable of justifying this declaration if legally challenged.

Such technical file would hold information such as circuits, layouts, PCB design, software versions and code, physical layout, ancillary equipment, test and inspection reports related to the equipment. It would also contain full detail of design changes and a technical opinion (either from an in-house or external expert) justifying any decision not to have a new type-test or full external appraisal done.

A Manufacturer's Declaration shall only be accepted from manufacturers who hold a current ISO 9001 quality system certification with a scope that includes design verification. This certification and scope will be reviewed by FPIS in each instance

A Manufacturer's Declaration shall be made in the standard form given in Annex 4 and shall:

- Be appropriately signed on official letterhead.
- Constitute a formal declaration of compliance with the relevant requirements of the applicable version of the relevant standard (usually NZS 4512)
- Detail what product(s) are covered
- Detail what changes have been made to the product(s)
- Detail what self-testing has been undertaken
- Detail third party/laboratory appraisal testing (to be) undertaken (if any)
- Undertake to make any changes to the product(s), either in production or in the field, as may be required as a result of any non-conformance with the applicable standards discovered subsequent to the making of the Declaration.
- Acknowledge that the FPANZ or their technical advisers carry no liability or responsibility for the product's performance in the field.

For the purposes of NZS 4512 and this Register, the importer of overseas-manufactured product is deemed to be the "manufacturer".

12. Compatibility of Detectors/Modules etc. to Control Panel

Manufacturers are required to supply compatibility information detailing the types and quantities of the various detectors and modules and the like compatible with their listed control panels.

Each manufacturer is responsible for the accuracy and completeness of their compatibility information, and for providing details to the publisher on a timely basis of any changes.

Compatibility information for detectors and modules and the like is published in this Register in good faith solely on the basis of information

supplied by the fire alarm control panel manufacturer or importer. No additional certification or validation of this information is made or required. Therefore the publisher or their technical advisers can take no responsibility whatsoever for the accuracy or completeness of the compatibility information.

ANNEX 1 – FORM OF THE REGISTER

Form of the Register

The Register shall be organised in two separate sections:

SECTION A

Fire Alarm Equipment Listings for New Installations and compliant with the latest standard (currently NZS 4512:2003)

SECTION B

Historical Fire Alarm Equipment Listings (items compliant with earlier version of standards), listed for maintenance and upgrade purposes

Each section shall be alphabetically organised by manufacturer, with two sub-sections per manufacturer:

- Fire Alarm Equipment Listings
- Compatibility Details for Listed Equipment

For consistency and ease of use Fire Alarm Equipment Listing details shall be presented in a standardised format as follows:

In separate columns for:

- Brand
- Model
- Description
- Standard and version/date – Section A only
- Means code (as below) – Section A only
- Listing Number

And in separate sub-sections for different equipment types:

- Panels
- Heat Detectors
- Smoke and other Fire Detectors
- Alerting Devices
- Brigade Interface Equipment
- Ancillary Products
- Sprinkler Fire Brigade Signalling Equipment

The Section A Equipment Listing shall state for each item the standard and version/date to which the item conforms, and shall provide a code or codes to identify the means by which it achieved that compliance.

Viz:

A = Laboratory appraisal certificate

D = Manufacturer's declaration

C = Overseas agency listing

(more than one code may apply to any individual item)

Whenever the standard applicable to listing in Section A becomes superseded (i.e. is no longer acceptable under the relevant legislation), all affected equipment listed in Section A shall automatically be earmarked for moving to Section B. Each manufacturer shall then be required to make appropriate declarations and/or applications against the revised/replacement standard to retain Section A status for this equipment.

The Compatibility Details for Listed Equipment sub-sections shall give compatibility details as supplied by each manufacturer. A disclaimer in each Compatibility Details section shall state that these details are published as supplied by the manufacturer in accordance with the definition of manufacturer in NZS 4512:2003 clause 104, that they have not been independently checked and that the manufacturer is wholly responsible for the accuracy and completeness of the content.

For consistency and ease of use Compatibility Details shall be presented in a standardised format as follows:

In separate columns for:

- Brand
- Model
- Type Description
- Maximum Number per zone
- Notes
- Listing Number (of the compatible device)

And in separate sub-sections for each:

- Panel and/or zone input card/device

Listing all devices that are compatible with that panel or zone input card/device.

Compatibility Details for obsolete detectors and equipment shall be permitted for the purposes of maintenance and service of the large installed base of systems to previous standards. If there is no current listing number for such devices, then "obsolete – ref only" shall appear in the "notes" column.

ANNEX 2 – FORM OF DECLARATION BY TECHNICAL ADVISOR

<FPIS Letterhead>

<date>

<Addressed to FPANZ>

REGISTER OF FIRE ALARM EQUIPMENT – NEW/AMENDED LISTING

Having examined the documentation provided by the manufacturer/importer, on behalf of Fire Protection Inspection Services Limited I confirm that the following product(s) may be listed in section A of the Register.

Name of Manufacturer/Importer:

Equipment Type Section:

Brand:

Model:

Description:

Standard and version/date:

Means Code(s):

Listing Number:

<repeat the above as necessary>

Yours faithfully
Fire Protection Inspection Services Limited.

<Name of duly authorised signatory>
<Title>

ANNEX 3 – FORM FOR ANNUAL REVALIDATION

A copy of the current Register listing is to be sent by FPANZ to each manufacturer annually to obtain administrative revalidation of their listing and contact details, and to ensure that the manufacturer is still trading.

Each manufacturer shall be required to respond according to the following form:

REVALIDATION OF LISTING IN REGISTER OF FIRE ALARM EQUIPMENT

I, on behalf of _____(name of Company) confirm that since the date of initial listing, or since the date of the last revalidation whichever is most recent, there have been [no changes / the attached changes – delete one] made to our listings in the Register of Fire Alarm Equipment.

I attach a copy of our current register Equipment and Compatibility listings, signed on the front page and initialled on all other pages.

(Where there have been any changes to products, these must be marked-up, and summarised in an attached schedule. Suitable documentation and/or declarations will also need to be submitted with this form to enable continued Equipment Listing of the changed items.)

Yours faithfully
Name of Company

Name of duly authorised signatory
Title

ANNEX 4 – FORM OF MANUFACTURER’S DECLARATION OF COMPLIANCE

The following Declaration of Compliance is required to be completed for all submissions. Except where expressly permitted below, no modification or variation to this Declaration will be accepted.

The wording shall be reproduced on official company/organisation letterhead with the appropriate details inserted [Where indicated thus]. Where alternatives are provided – viz manufacturer/importer, I/we etc., one alternative may be deleted as applicable.

COMPANY LETTERHEAD

Date

Address

The Executive Director
Fire Protection Association NZ Inc
Private Box 302372, North Harbour
Auckland 1330

Declaration of Compliance

On behalf of [Name of company] (**Company**), I confirm as follows:

1. This Declaration of Compliance (**Declaration**) is made in respect of the product or products set out under Item 1 of the attached Schedule (**Product**) [manufactured/imported – delete one, as applicable] by the Company and which are currently listed in the Register of Fire Alarm Equipment (**Register**).
2. The Product [complies/conditionally complies – delete one, as applicable] with the requirements of the applicable standard or standards set out under Item 2 of the Schedule (**Standard**).
3. To the extent that the Product is conditionally compliant with the Standard, the conditions and/or limitations (if any) that apply are set out under Item 3 of the Schedule.

4. The design modifications (if any) that have been made to the Product are set out under Item 4 of the Schedule.
5. Details of the appraisal testing (if any) that has been carried out on the Product to assess compliance with the Standards, following manufacture or following any modifications carried out to the Product, are set out under Item 5 of the Schedule.
6. Details of the additional appraisal testing (if any) that has been carried out on the Product in support of this Declaration are set out under Item 6 of the Schedule.
7. Details of the appraisal testing (if any) that is proposed to be carried out are set out under Item 7 of the Schedule.
8. In support of this Declaration, the documents set out under Item 8 of the Schedule are attached hereto.
9. The Company undertakes to maintain a technical file containing all material relevant to this Declaration that is in existence as at the date of this Declaration, or which comes into existence following the making of this Declaration.
10. The Company undertakes to make all necessary modifications to the Product, either in production or in the field, as may be required as a result of any non-conformance with the Standards that may be identified following the making of this Declaration.
11. The Company acknowledges that the making of this Declaration is a condition the Product being listed, or continuing to be listed in the Register.
12. The Company agrees and acknowledges that:
 - (a) the FPANZ gives no warranty in respect of the Product; and
 - (b) the FPANZ, its officers, employees, contractors or agents shall not in any way be liable or responsible, whether to the Company or to third parties for the performance of the Product.

Yours faithfully
Name of Company

Name of duly authorised signatory
Title

Continued..

SCHEDULE

1. *Product:*
2. *Applicable Standard (usually NZS 4512:2003):*
3. *Conditions or Limitations that apply:*
4. *Modifications:*
5. *Appraisal testing following manufacture/modification [Give full details of what testing has been carried out and by whom]:*
6. *Additional appraisal testing on the Product in support of Declaration of Compliance [Give full details of what testing has been carried out and by whom]:*
7. *Proposed appraisal testing [Give full details of what testing is proposed to be carried out and by whom, when it will be carried out and the purpose for it]:*
8. *Attached documents [Reference and include original laboratory appraisal report, internal test report(s), and/or other applicable documentation]:*
9. ISO 9001 Certification and Scope documents

<Initial>

<Company Name>

<Page>

<Date>