BMTech Limited
Building Materials Technology

Company Profile

ilac-MRA

ACCREDITED
IANZ
INSPECTION BODY

BMTech Limited

Building Materials Technology

Accredited Type A Inspection in Passive Fire

BMTech is an IANZ accredited type A passive fire inspection company. Thanks to the well structured internal processes, verified and approved by IANZ, the BMTech team is consistent in reporting the inspection results, which makes the process and its outcome repeatable, reliable and concise.

Passive Fire Consultancy Services

Being on the frontline of the New Zealand passive fire protection, the BMTech experts are well established and recognized professionals with the expertise in fire performance of building materials to the requirements of the relevant fire standards and C/AS1, C/AS2 of the New Zealand Building Code.

OUR CLIENTS

MINISTRY OF BUSINESS, INNOVATION & EMPLOYMENT
HĪKINA WHAKATUTUKI

FRAMECAD

TECH COATINGS

ECOSTOCK
Secure Food Solutions

Colliers

Mission

We are committed to bring up to the surface of the passive fire industry the most effective and time-bound ways of achieving trouble-free compliance pathways for our Clients.

Vision

Leveraging and contributing to the New Zealand passive fire protection industry through a unique mix of BMTech team expertise in inspection, construction project management, material engineering, fire testing and research work of passive fire systems.

Passive Fire Design Review

BMTech offers the following services:
- Registered Auckland Council PS2 authours
- Verification & Certification of passive fire systems
- Design Variations

AS1530.4

Fire resistance tests of elements of construction

AS4072.1

Service penetrations and control joints

AS1905.1
NZS4520

Fire-resistant doorsets

Producer Statement 2

Our experts, as producer statement design review authors, can review the work of the designer (sometimes on behalf of the Council). Then the PS2 author issues the statements confirming that, in their professional view, passive fire protection part of the building work as described on nominated plans and specifications has been designed in accordance with the performance requirements of the NZBC.

Verification & Certification of passive fire systems

The verification of the proposed passive fire systems implies a robust compliance check of the fire-rated systems and their relevance to ensure they are in accordance with the following standards

- AS1530.4
- AS4072.1
- AS1905.1
- NZS4520
- NZS/BS 476 part 20, 21, 22
- Acceptable Solutions and Verification Methods of the C Clauses of the NZBC

Design Variations

BMTech team understands that the project may require variations to the existing design and the team are willing to assist with verification and certification of those variations in accordance with

- AS1530.4
- AS4072.1
- AS1905.1
- NZS4520
- NZS/BS 476 part 20, 21, 22
- Acceptable Solutions and Verification Methods of the C Clauses of the NZBC

Passive Fire Site Inspection

BMTech provides the following services:
- Registered Auckland Council PS4 authors
- Installation inspection/construction monitoring
- Final inspection/commissioning

AS1530.4

Fire resistance tests of elements of construction

AS4072.1

Service penetrations and control joints

AS1905.1
NZS4520

Fire-resistant doorsets

Producer Statement 4

Our design professionals can issue the statements stating that, in their view, the passive fire protection part of the building work as described on the consented plans and specifications has been constructed and meets certain performance requirements of the NZBC and or conditions of building consent.

Installation Inspection/ Construction Monitoring

Our team of qualified inspectors assist with installation inspections/construction monitoring of the following passive fire systems: walls, floors, roofs and ceilings, columns, beams, girders and trusses, doorsets and shutter assemblies, uninsulated glazing, air ducts, service penetrations and control joints, fire damper and air transfer grille assemblies, critical services. These passive fire systems can be inspected in new build/remediation projects in compliance with

- AS1530.4
- AS4072.1
- AS1905.1
- NZS4520
- NZS/BS 476 part 20, 21, 22
- Acceptable Solutions and Verification Methods of the C Clauses of the NZBC

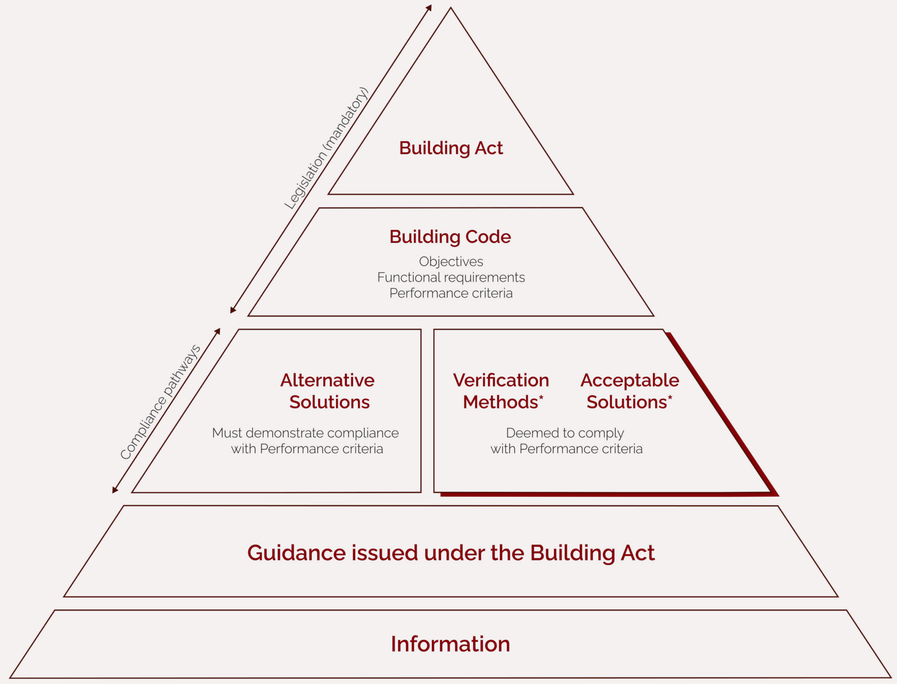
Commissioning/ Final Inspection

Our inspectors perform the final inspection/commissioning of the following passive fire systems: walls, floors, roofs and ceilings, columns, beams, girders and trusses, doorsets and shutter assemblies, uninsulated glazing, air ducts, service penetrations and control joints, fire damper and air transfer grille assemblies, critical services. Final inspection/ commissioning for these passive fire systems can be done for new build/ remediation projects in compliance with

- AS1530.4
- AS4072.1
- AS1905.1
- NZS4520
- NZS/BS 476 part 20, 21, 22
- Acceptable Solutions and Verification Methods of the C Clauses of the NZBC

Passive Fire Consultancy Services

BMTech's work is closely connected to the engineering related to passive fire protection. The team possesses the necessary knowledge and technical skills to support research related to passive fire protection systems. Additionally, the BMTech team members are actively involved in the industry, advising and participating in passive fire protection
hands-on workshops.



NZBC Compliance Pathway

In recent years, the design and specification of passive fire solutions have become increasingly complex due to the vast number of service penetrations, fire-rated doorsets, windows, ducts, and dampers being tested and installed in various fire-rated wall and floor substrates, as well as the multitude of solutions available from various suppliers.

As a result, specialized expertise and extensive knowledge of available systems have become an essential requirement for the successful implementation of passive fire scopes in projects.

Every construction project may encounter unexpected challenges with Passive Fire installations, requiring in-depth expertise. We can provide advice on project-specific applications that are compliant, cost-effective, and fit-for-purpose solutions, even for very complex scenarios.

Among the potential problems that one may encounter are

- Passive fire protection systems failing during inspections for Building Warrant of Fitness (BWOF) renewals.
- Projects exceeding budget due to inadequate planning for passive fire requirements during the design stage.
- Projects failing passive fire inspections due to improper specifications or installations.
- Projects experiencing delays and overspending due to the need to rectify non-compliant passive fire systems.
- Projects not obtaining Code Compliance Certificates (CCC) or Certificates for Public Use (CPU) due to the absence of a proper Passive Fire register.
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Consequently, the design and specification of passive fire systems require specialized knowledge and expertise, which we can offer.

This advice can be provided as a consultation or formal opinion/assessment, with references to relevant standards, fire reports, and compliance documents.

CONTACT US

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