

<b>Title</b>	<b>Demonstrate knowledge of passive fire protection</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard covers the underpinning knowledge for people who need to inspect passive fire protection (PFP) systems in buildings.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: the compliance schedule regime; fire compartmentation and escape routes; PFP features; and inspection and maintenance requirements of PFP</p>
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<b>Classification</b>	Mechanical Engineering > Passive Fire Protection
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<b>Available grade</b>	Achieved
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### Explanatory notes

#### 1 References

Building Act 2004 and associated Regulations.

Department of Building and Housing. *Compliance Document for New Zealand Building Code, Clauses C1 to C6 (Fire Safety)*, which are available at

<http://www.building.govt.nz/compliance-documents>.

Ministry of Business, Innovation and Employment (MBIE). *Compliance Schedule Handbook*, which is available at:

<http://www.building.govt.nz/UserFiles/File/Publications/Building/Compliance-documents/Compliance-schedule-handbook-amendment-3.pdf> .

Ministry of Business, Innovation and Employment (MBIE) *New Zealand Building Code Handbook*, which is available at:

<http://www.building.govt.nz/UserFiles/File/Publications/Building/Compliance-documents/building-code-handbook-3rd-edition-amendment-13.pdf>.

#### 2 Definition

*Passive fire protection* (PFP) is an integral part of the three components of structural fire protection and fire safety (ie Fire Resistance Rating (FRR)) in a building. PFP attempts to contain fires or slow the spread by compartmentalising the building and through the use of fire resistant walls, floors, doors, ceilings, and roofs.

#### 3 Assessment

Use of training manuals, reference texts and literature, manufacturers' data, and codes of practice and regulations listed in the references is encouraged during assessment.

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## Outcomes and evidence requirements

### Outcome 1

Demonstrate knowledge of the Compliance Schedule regime.

#### Evidence requirements

- 1.1 The purpose, content, and responsibility for issue of a building compliance schedule are outlined in accordance with the Compliance Schedule Handbook.
- 1.2 The purpose, content, and responsibility for issue of a Building Warrant of Fitness are outlined in accordance with the Compliance Schedule Handbook.
- 1.3 The purpose, content, and responsibility for issue of a Certificate of Compliance with inspection, maintenance, and reporting procedures (Form 12A) are outlined in accordance with the Compliance Schedule Handbook.
- 1.4 The purpose, content, and responsibility for issue of compliance schedule reports are outlined in accordance with the Compliance Schedule Handbook.
- 1.5 The term *specified system* is explained in accordance with the Compliance Schedule Handbook.
- 1.6 The concepts of *Inspection* and *Maintenance* in the context of a compliance schedule are outlined in accordance with the Compliance Schedule Handbook.
- 1.7 The role of an Independent Qualified Person (IQP) is described in accordance with the Building Act.

### Outcome 2

Demonstrate knowledge of fire compartmentation and escape routes.

#### Evidence requirements

- 2.1 The meaning of Fire Resistance Rating (FRR) is explained in relation to fire cells in accordance with the Compliance Document for the New Zealand Building Code.
- 2.2 The concept of fire cells are explained with reference to the FRR of its components, and in accordance with the Compliance Document for the New Zealand Building Code.
- 2.3 The concept of escape routes is explained with reference to open paths, protected paths, safe path, and final exit.

### Outcome 3

Demonstrate knowledge of passive fire protection (PFP) features.

**Evidence requirements**

3.1 The requirements of fire separations are identified and described in accordance with the Compliance Document for the New Zealand Building Code.

Range fire doors, walls, floors, floor coverings, roofs, ceilings, surface finishes, penetrations, labels, concealed spaces.

3.2 The requirements of smoke separations are identified and described in accordance with the Compliance Document for the New Zealand Building Code.

Range smoke stop doors, smoke resistant lift lobby, walls, penetrations, ceiling spaces, windows.

3.3 The requirements of escape routes and final exits are identified and described in accordance with the Compliance Document for the New Zealand Building Code.

Range doors, gates, walls, windows, signs, lighting.

3.4 The requirements of signs are identified and described in accordance with the Compliance Document for the New Zealand Building Code.

Range escape routes, fire doors, smoke control doors, lifts, illumination.

**Outcome 4**

Demonstrate knowledge of standards and approvals required for Passive Fire Protection products.

**Evidence requirements**

4.1 The inspection and maintenance requirements of PFP are explained and applied to practical situations.

Range Specified Systems SS 15, items 15/2, 15/3, 15/4, and 15/5 as detailed in the Compliance Schedule Handbook.

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<b>Replacement information</b>	This unit standard replaced unit standard 17709 and unit standard 17710.
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<b>Planned review date</b>	31 December 2020
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	21 May 2010	31 December 2017
Review	2	15 October 2015	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

**Comments on this unit standard**

Please contact Competenz [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz) if you wish to suggest changes to the content of this unit standard.