

Design Advice

DA01

Date: 12/05/2020

To: Matthew Brown

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From: Tony Parkes

PFITS Consultancy

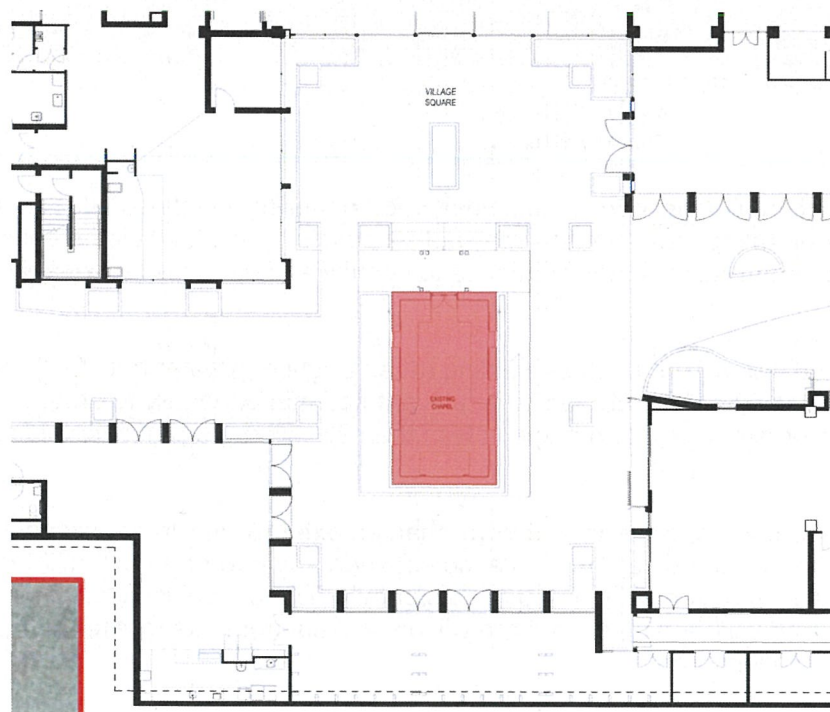
Project: Ryman Healthcare Park Terrace

Our Reference: 190032

Project Address: 100 Park Terrace, Christchurch Central

**Subject: Ryman Healthcare Park Terrace – Bishopscourt Chapel
Building Fire Requirements**

As requested, the following addresses the preliminary fire requirements for the existing Chapel located at the Ryman Healthcare Park terrace site.



The purpose of this design advice is to provide preliminary advice as to the requirements for the alterations to this existing building with the provisions of the Building Code, for means of escape from fire 'as near as is reasonably practicable', in accordance with section 112 of the Building Act 2014.

The building has been reviewed in accordance with the requirements of the NZBC using Acceptable Solution C/AS2 amendment 1 (errata 1) 22 October 2019.

The existing building is a small single storey Historic Chapel; Risk Group CA. It is one firecell with a single entry/exit, and therefore will be limited to a maximum occupant load of 50.

Fire Safety Systems:

Based upon the occupant load of no more than 50 the building does not require a fire alarm system.

Means of Escape:

The building is provided with a single exit (a set of double in-swinging doors) with an occupant load of no more than 50. The travel distance to the outside is less than the permitted 20 m, therefore egress from each building complies.

Exit signs are required for escape routes and an exit sign will be required over the main entry/exit door.

Internal Fire Spread:

The building is a single firecell of less than 5000 m² and therefore requires no internal fire separations.

Interior surface finishes for this building must meet the requirements of the table below with respect to inhibiting the spread of fire.

Table 1: Internal Surface Finishes

Location	Material Group Number and Critical Radiant Flux
	Non-Sprinklered
Walls and Ceilings (Material Group Number)	
	Crowd - ceiling linings 2S
	Crowd - wall linings 2S

The internal linings of the Chapel consist of timber wood panelling which would require treatment to comply with a group rating, however this may not be possible, and it would be considered that the reinstatement of the existing linings continues to comply as near as is reasonably practicable.

External Fire Spread:

The Chapel is located 4.0 m from another building (at an angle of greater than 90°) and there are no unprotected areas in external walls facing a relevant/notional boundary to other property, sleeping risk groups or exitways, at an angle of less than 90°. Therefore horizontal fire spread complies.

Vertical fire spread from a roof close to and lower than an external wall in an adjacent building on the same title shall be avoided where the distance between any part of an external wall and a lower roof is less than 9.0 m vertically or 5.0 m horizontally. The chapel is located closer than 5 m to the corner of Building B01 and as such there will be the requirements for fire ratings or sprinkler protection or a combination of both.

If you have any queries on the above, please do not hesitate to contact us.

Yours sincerely


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