

FIRE STATEMENT FOR

THE COMMUNITY ORAL HEALTH FIXED FACILITIES

080190/F/1

Introduction

This Fire Statement addresses the new single storey, stand alone dental facilities required by the DHB's.

No assessment of boundary distances are made as no specific site has been established.

This Fire Safety Design is based entirely on the Acceptable Solutions.

An Evacuation Scheme is required, as the number of staff in the building exceeds 10.

2.0 PURPOSE GROUPS, FHC, OCCUPANT LOADS

The maximum occupancy is for the 6 chair clinic.
Allow for 2 people per room, plus reception plus 6 people waiting.
Total occupancy is less than 50.

3.0 F RATINGS AND ALARM TYPES

WL:

F0 Alarm Types: 2af, 18c

2af - A manual alarm system is not required for either compliance with the NZBC nor for an evacuation scheme. Moreover, the entire building is open, and so alerting everyone is simple.

18c - A fire hydrant system is not required as the hose run length is less than 75m

Emergency lighting is required throughout the central main passage and waiting room to comply with F6.

4.0 **MEANS OF ESCAPE**

4.1 **Number**

Two means of escape are provided.

4.2 **Lengths**

Far corner to outside via the main entry (total open) = 31m < 45m. OK.

4.3 **Widths**

Egress doors need to be only 850mm wide.

4.4 **Doors**

Egress doors are to include keyless hardware that always allows an easy escape.
Egress doors need to open out.

4.5 **Signs**

Require "Exit" signs to show the way out. The signs need to be illuminated.

5.0 **EXTERNAL SPREAD OF FIRE**

No assessment of external walls is needed as no boundaries apply as yet.

However, an S Rating assessment is as follows:

$$\text{FLED} = 800 \text{ MJ/m}^2$$

$$H = 2.5\text{m}$$

$$\frac{A_v}{A_f} = \frac{36}{213} = 0.17$$

$$\frac{A_h}{A_f} = \text{nil}$$

$$K_b = 0.085$$

$$t_e = 77$$

$$k = 1.0 \text{ (unsprinklered)}$$

Therefore, S77, Use **S90**

FIRE SAFETY OUTLINE SPECIFICATION FOR
THE COMMUNITY ORAL HEALTH FIXED FACILITIES

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Design Occupancy:

The maximum design occupancy of the largest building is **50**.

Manual Alarm System:

No fire alarm system is required.

Fire Extinguishers:

Provide a fire extinguisher in the staffroom or along the corridor.

Emergency Lighting:

Install emergency lighting complying with NZS 2293 throughout the corridor and waiting area.

Exit Signs:

Provide illuminated Exit signs at both ends of the corridor showing the locations of the two egress doors.

Egress Doors:

The main entry door and the rear egress door shall include keyless hardware on the inside. The doors shall open out. The doors shall be at least 850mm wide.

External Walls:

External walls may need to be fire rated depending on their proximity to:

- other buildings containing sleeping occupancies, and/or
- neighbouring property.

If walls require fire rating because of proximity to sleeping occupancies or to neighbouring property, then a 90/90/90 FRR is required to the affected walls. The extent of glazing may be further limited.