

PROJECT NAME
ADDRESS

FIRE SAFETY ENGINEERING DESIGN REPORT

Date

1.0 Introduction

1.01 This report describes the fire safety requirements and the provisions for this project. This fire safety report has been prepared by [redacted] (Architect), [redacted] (Structural & Civil Engineering) and [redacted] (Building Services Engineering) respectively to meet the performance requirements of the National Building Code of Fiji 2004 referred to in this document as NBCF. The Commentary of notes below is to be read in conjunction with drawings appended to this submission and the NBCF.

2.0 Description of the Building Complex

2.01 The development is located on [redacted] on lots [redacted] & [redacted], DP [redacted], The total allotment area is _____ m². Front yard set back is [redacted] m. The side yard set back is [redacted] m. The rear yard setback is [redacted] m. These setback dimensions are in accordance with the [redacted] provisions and Town Planning Act, chapter 139, November 1999. The building has [redacted] storeys including ground floor. (**This section should be part of the Table format as given below**)

2.02 The building structure is a [redacted] (**this should be part of the Table format as given below**)

2.03 Schedule of Floor Areas

Building Level	Total Floor Area m ²	Occupancy

3.0 Definition and Classification of Structures

3.01 The following definitions apply to the development in accordance with the NBCF:

NBCF reference	Definition/Parameter	Data	Application Areas
SECTION A A3.2 Classification of buildings and Structures	Class of Building		
	Class of Building		

4.0 Design Requirements and Provisions

4.01 The design provisions for this project have been carried out in accordance to the NBCF as scheduled in the table below.

4.02 SECTION NC Fire Resistance class 2-9 Buildings, SECTION ND Access and Egress class 2-9 Buildings, SECTION NE Services and Equipment class 2-9 Buildings.

NBCF reference	Deemed-to-Satisfy Provisions	Application to Project Design	Solution Provided
SECTION NC FIRE RESISTANCE			
NC1 FIRE RESISTANCE & STABILITY			
NC1.1	Type of construction required under table NC1.1		
NC2 COMPARTMENTATION & SEPARATION			
NC2.2	General floor area limitations		
NC2.3	Large isolated building		
NC2.4	Requirements for open spaces and vehicular access		
NC2.5	Class 9a Buildings		
NC2.6	Separation of openings in external walls		
NC2.7	Separation by fire walls		
NC2.8	Separation of classifications in same storeys		
NC2.9	Separation of classifications in different storeys	None required in the design	
NC2.10	Separation of lift shafts		
NC2.11	Stairways and lifts in one shaft		
NC2.12	Separation of equipment		
NC2.13	Electricity substations		

NC3 PROTECTION OF OPENINGS			
NC3.2	Protection of openings in external walls		
NC3.3	Separation of openings in different fire compartments		
NC3.4	Acceptable method of protection		
NC3.5	Doorways in fire walls		
NC3.6	Sliding fire doors		
NC3.7	Protection of doorways in horizontal exits		
NC3.8	Openings in fire-isolated exits		
NC3.9	Service penetrations in fire-isolated exits		
NC3.10	Openings in fire-isolated lift shafts		
NC3.11	Bounding construction: Class 2, 3 and 4 buildings		
NC3.12	Openings in floors for services		
NC3.13	Openings in shafts		
NC3.14	Openings for service installations		
NC3.15	Installations deemed-to-satisfy		

SECTION ND ACCESS AND EGRESS			
ND1 PROVISION FOR ESCAPE			
ND1.2	Number of exits required		
ND1.3	When smoke or fire-isolated exits are required		
ND1.4	Exit travel distances		
ND1.5	Distance between alternative exits		
ND1.6	Dimension of exits		
ND1.7	Travel via smoke or fire-isolated exits		
ND1.8	External stairways		
ND1.9	Travel via non-fire-isolated stairways or ramps		
ND1.10	Discharge from exits		
ND1.11	Horizontal exits		
ND1.12	Non-required stairways, ramps or escalators		
ND1.13	Number of persons accommodated		
ND1.14	Measurement of distances		
ND1.15	Method of measurement		

ND2 CONSTRUCTION OF EXITS			
ND2.2	Fire isolated stairways or ramps		
ND2.3	Non-fire-isolated stairways of ramps		
ND2.4	Separation of rising and descending stair flights		
ND2.5	Open access ramps and balconies		
ND2.6	Smoke lobbies		
ND 2.7	Installations in exits and paths of travel		
ND2.8	Enclosure of space under fire-isolated stairs or ramps		
ND2.9	Width of stairways		
ND2.10	Ramps		
ND2.11	Fire-isolated passageways		
ND2.12	Roof as an open space		
ND2.13	Treads and risers		
ND2.14	Landings		
ND2.15	Thresholds		

ND2.16	Balustrades		
ND2.17	Handrails		
ND2.18	Fixed platforms, walkways and ladders		
ND2.19	Doorways and doors		
ND2.20	Swinging doors		
ND2.21	Operation of latch		
ND2.22	Re-entry from fire-isolated exits		
ND3 ACCESS FOR PEOPLE WITH DISABILITIES			
ND3.2	Access to buildings		
ND3.3	Parts of buildings to be accessible		
ND3.4	Concessions		

SECTION NE SERVICES AND EQUIPMENT			
NE1 FIRE FIGHTING EQUIPMENT			
NE1.2	Fire mains and water supply		
NE1.3	Riser main system		
NE1.4	Where hydrants are required		
NE1.5	Hose reels		
NE1.6	Sprinklers		
NE1.7	Portable fire extinguishers		
NE1.8	Fire and smoke alarms		
NE1.9	Fire control centres		
NE1.10	Fire Precautions during construction		
NE1.11	Provision for special hazards		
NE2 SMOKE CONTROL			
NE2.1	Smoke venting		
NE2.2	Exclusion of smoke from fire-isolated exits		
NE2.3	Natural smoke venting		

NE2.4	Air-handling systems		
NE2.5	Roof vents		
NE2.6	Smoke exhaust systems		
NE2.7	Pressurisation.		
NE3 LIFT INSTALLATIONS			
NE3.2	Stretcher facility in lifts		
NE3.3	Warning against use of lifts in fire or earthquake		
NE3.4 s	Emergency lifts		
NE4 EMERGENCY LIGHTING, EXIT SIGNS AND WARNING SYSTEMS			
NE4.2	Emergency lighting requirements		
NE4.3	Measurement of Distance.		
NE4.4	Design and operation of emergency lighting.		
NE4.5	Exit signs.		
NE4.6	Direction signs.		
NE4.7	Class2, 3, and 4 buildings: Exemption		
NE4.8	Design and operation of exit signs		

5.0 Conclusions

5.01 The design consultants have implemented the fire safety requirements of the National Building Code of Fiji into the designs to the best of their knowledge and interpretation of the Fire Codes in the NBCF. It is the intention that this document provides the basis for approval on all matters in relation to the Fire Codes.

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**Director
Building Services Engineer**

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**Principal
Architect**

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**Director
Structural Engineer**

- Architects are required to be a current practising member of the Fiji Association of Architects
- Structural Engineers and Building Services Engineers are required to be a current practising member of the Fiji Institute of Engineers.
- Please provide evidence of Professional Indemnity Insurance applicable to providing technical advice relating to the fire safety provisions of the National Building Code of Fiji.