**Paper title:** Spatial Design Systems and Technology
**Paper Number:** 224.371

**Project:** 1_Part A_**New Zealand Building Code : Diving in**

**Hand-in Date:** **3rd August 5pm** as a PDF via Stream {more info to come}
(MUST BE HANDED IN ON TIME REFER PAPER OUTLINE)
you will lose marks if handed in late

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**Introduction:** This Project is an introduction to using the New Zealand Building Code. It's aimed at getting you used to using and finding its content in relation to the design requirements for a new interior fit out or basic timber-framed built structure.
The Building Code articulates New Zealanders' expectations about the quality of buildings.
A copy of the current NZBC can be found at:
http://www.dbh.govt.nz/building-code-compliance-documents-downloads

**Brief:** You are doing a code check for your studio project. You will need to work out the total floor area of your design and a schematic layout (planning diagrams) to start the building code check (this is a chicken and egg statement, you may need to go back and forth as some parts may not work out), to find answers to the following requirements:

**Toilets**
How many toilets and sink fixtures?
Min. Size for each sex and type.

**Vertical Access**
Stairs: size, location, any other info.
(and/or) Ramp: size, gradient.
Handrail: design a handrail and balustrade that meets code

**Fire Exits**
Number of required exits?
Width and type.

**Food Preparation**
Ensure your food preparation area meets code requirements

**Project Requirements:** A simple report that out lines your answers to the above headings.
Annotated schematic planning diagrams saved as a PDF (plans and details are a useful way to explain key information).
Note: All your information should be backed up by referencing to the corresponding section and page from the building code; eg. C1, pg 87, fig. 3.30.

**Assessment:** The project will be assessed to the extent that it:

- Makes obvious your thought process, including proof.
- Demonstrates an ability to research, study, document and seek out information as data, first-hand knowledge and examples.
- Effectively and coherently communicates explorations made.

Feedback will be given after completion of the project.

**Learning Outcomes:** The student should be able to:

- Confidently understand and use the New Zealand Building Code as required.
- Incorporate that understanding into a design.

**Procedure and Timetable:**

**week 1**

**Monday 16th July** 10B01 Lab 11A25
Course and Project Intro.
Part A: Code, Compliance, Consents
**Wednesday 18th July**
Independent Study: site plan for Studio 4 project, locate on District Plan maps

**week 2**

**Monday 23rd July** 10B01 Lab 11A25
Building Code - generic
**Wednesday 25th July**
Independent Study: generic Building Code checks

**week 3**

**Monday 30th July** 10B01 Lab 11A25
Building code check, planning diagrams
**Wednesday 1st August**
Independent Study: complete planning diagrams with all Building Code checks and references annotated

**Friday 3rd August**
**Handin Project 1 by 5pm via stream.massey.ac.nz**

**References:**

**Recommended Reading:**

*Building officials' guide to the building act 2004.* (1st ed.)(2005). 1st ed.). Wellington, N.Z.: Dept. of Building and Housing.

Massey, W. E. (1999). *Guide to the building act.* Wellington N.Z. Auckland N.Z.: Building Industry Authority; CCH New Zealand.

**Websites:**

http://www.dbh.govt.nz/

http://www.wellington.govt.nz/buildserv/

www.mfe.govt.nz/rma/

www.gw.govt.nz

**Compliance Documents:**

**B1 Structure** (including amendment 9) Replaces B1 Structure (including amendment 8) Effective from 30 September 2010 [PDF 1.53 MB MB, 90 pages]
**B2 Durability** (including amendment 6) Replaces B2 Durability (including amendment 5) Effective from 30 September 2010 [PDF 175 KB, 24 pages]
**C Fire Safety** (including amendment 8) Replaces C Fire Safety (including amendment 7) Effective from 30 September 2010 [PDF 2.03 MB, 230 pages]
**D1 Access Routes** (including amendment 4) Effective from 1 July 2001 [PDF 2.28 MB, 46 pages]
**D2 Mechanical Installations for Access** (Second Edition) Effective from 6 January 2002 [PDF 172 KB, 21 pages]
**E1 Surface Water** (including amendment 7) Replaces E1 Surface Water (including amendment 6) Effective from 30 September 2010 [PDF 1.3 MB, 48 pages]
**E2 External Moisture** (Third Edition including amendment 4) Effective from 1 May 2008 [whole document - PDF 15.2 MB, 196 pages]
**E3 Internal Moisture** (including amendment 3) Effective from 14 October 2004 [PDF 568 KB, 16 pages]
**F1 Hazardous Agents on Site** (including amendment 1) Effective from July 2001 [PDF 224 KB, 16 pages]
**F2 Hazardous Building Materials** (including amendment 2) Effective from 1 December 2000 [PDF 103 KB, 9 pages]
**F3 Hazardous Substances and Processes** (Second Edition) Effective from 22 March 2007 [PDF 124 KB, 14 pages]
**F4 Safety from Falling** (Third Edition including amendment 1) Effective from 21 June 2007 [PDF 463 KB, 22 pages]
**F5 Construction and Demolition Hazards** Effective from July 1992 [PDF 140 KB, 11 pages]
**F6 Visibility in Escape Routes** (Third Edition) Effective from 18 October 2007 [PDF 212 KB, 18 pages]
**F7 Warning Systems** (including amendment 6) Effective from 1 November 2008 [PDF 237KB, 20 pages]
**F8 Signs** (including amendment 1) Effective from September 1993 [PDF 332 KB, 22 pages]
**G1 Personal Hygiene** (including amendment 5 and erratum 1) Effective from 23 July 2007 [PDF 530 KB, 34 pages]
**G2 Laundering** (including amendment 1) Effective from 1 July 2001 [PDF 127 KB, 11 pages]
**G3 Food Preparation and Prevention of Contamination** (including amendment 1) Effective from 1 July 2001 [PDF 173 KB, 14 pages]
**G4 Ventilation** (Third Edition) Effective from 1 November 2008 [PDF 482KB, 26 pages]

**G5 Interior Environment** (including amendment 1) Effective from 1 July 2001 [PDF 146 KB, 12 pages]
**G6 Airborne and Impact Sound** (including amendment 2) Effective from 1 December 1995 [PDF 362 KB, 14 pages]
**G7 Natural Light** (including amendment 1) Effective from 1 December 1995 [PDF 159 KB, 13 pages]
**G8 Artificial Light** (including amendment 1) Effective from 1 July 2001 [PDF 103 KB, 11 pages]
**G9 Electricity** (including amendment 5) Replaces G9 Electricity (including amendment 4) Effective from 30 September 2010 [PDF 148 KB, 16 pages]
**G10 Piped Services** (including amendment 5) Replaces G10 Piped Services (including amendment 4) Effective from 30 September 2010 [PDF 144 KB, 22 pages]
**G11 Gas as an Energy Source** (including amendment 4) Replaces G11 Gas as an Energy Source (including amendment 3) Effective from 30 September 2010 [PDF 135 KB, 18 pages]
**G12 Water Supplies** (including amendment 7) Replaces G12 Water Supplies (Third Edition) Effective from 30 September 2010 [PDF 1.61 MB, 68 pages]
**G13 Foul Water** (second edition including amendment 3) Replaces G13 Foul Water (Second Edition including amendment 2) Effective from 30 September 2010 [PDF 2.07 MB, 60 pages]
**G14 Industrial Liquid Waste** (including amendment 3) Replaces G14 Industrial Liquid Waste (Second Edition) Effective from 30 September 2010 [PDF 544 KB, 28 pages]
**G15 Solid Waste** (including amendment 3) Replaces G15 Solid Waste (including amendment 2) Effective from 30 September 2010 [PDF 358 KB, 18 pages]
**H1 Energy Efficiency** (Third Edition) Replaces H1 Energy Efficiency (Second Edition, including amendment 1) Effective from 31 October 2007 [PDF 205 KB, 32 pages]
**Simple House Acceptable Solution** Effective from 31 March 2010 [PDF 4.12 MB, 202 pages]
**Handbook to the Building Code and Compliance Documents** Third edition Effective from 25 May 2007 [PDF 1.54 MB, 220 pages]
**Compliance Schedule Handbook** (including amendment 1) Effective from 31 March 2008 [PDF 418 KB, 56 pages]