Certification Instrument

- Full compliance with BCA 96 will ensure passing 19 for Section 1
- Do not need 100 to pass

SECTION 1 – SAFETY (25 POINTS)

- Residential Fire Sprinkler System
- Not required to pass Section 1
- Concessions available with Hostels and 9c Ageing in Place under the BCA 1996

1b Fire Compartmentation / Separation

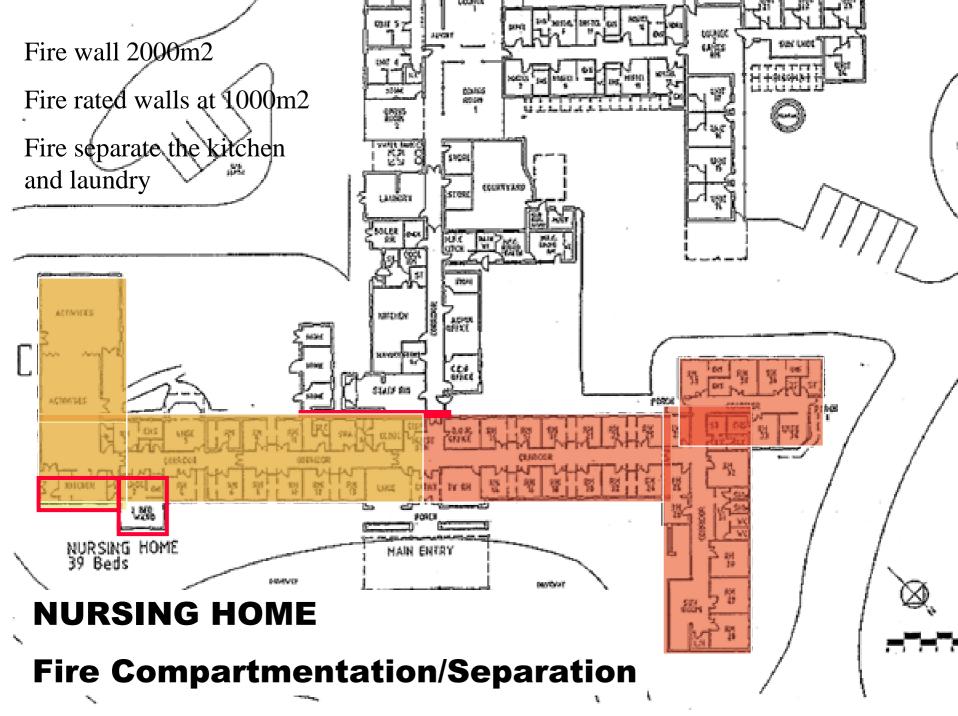
Nursing Homes

- BCA "Type of construction" Example Type "C"
- Floor area >2000m² = Fire Walls FRL 90/90/90
- Floor area >1000m² = Fire Separation FRL
 60/60/60
- FRL = Fire Resistance Level

1b Fire Compartmentation / Separation

Nursing Homes (cont.)

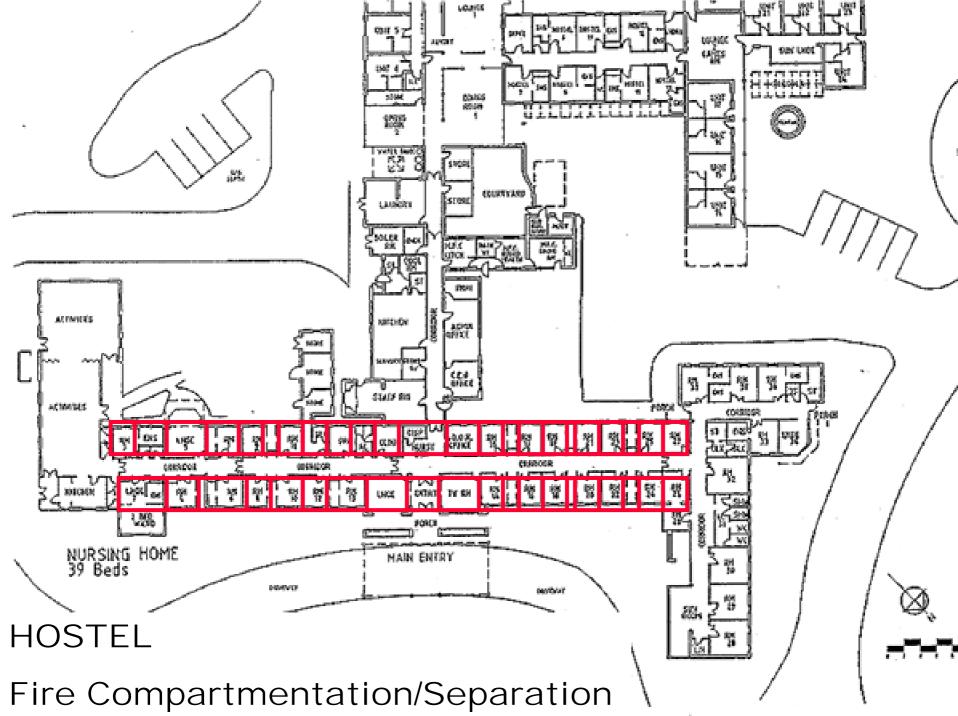
- Kitchen floor areas >30m² = fire separate
- Laundries = fire separate



1b Fire Compartmentation / Separation

Hostels (no fire Sprinklers Installed)

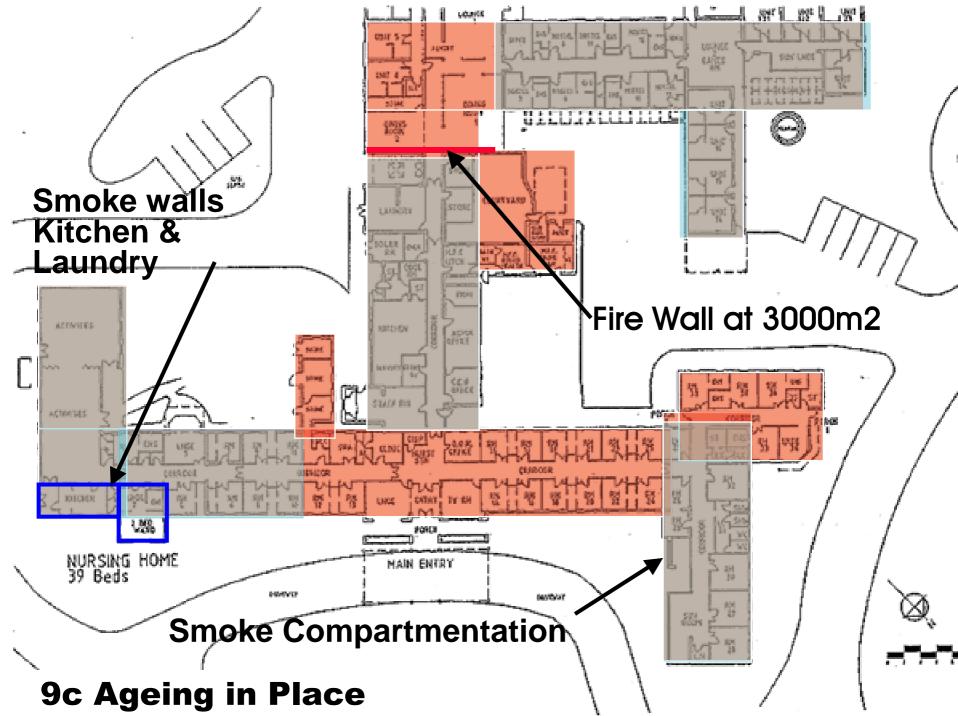
- BCA "Type of construction" Example Type "C"
- Each resident room is required to be enclosed with an FRL of 60/60/60



1b Fire Compartmentation / Separation

9c Ageing in Place

- BCA "Type of construction" Example Type "C"
- Floor area >3000m² = Fire Walls FRL 90/90/90
- Floor area >500m² = Smoke Separation only
- Kitchen <30m² and Laundry = Smoke separated only



1b Fire Compartmentation / Separation

- 60/60/60 = Structural adequacy / integrity / insulation
- Materials or prototype construction to achieve fire ratings
 - Single skin masonry
 - Gyprock, Boral and CSR fire board tested method

1b Fire Compartmentation / Separation Integrity

- Fire Doors across corridors and they close properly
- Fire rated walls go to underside of ceiling with correct fire rating or to underside of roof <u>covering</u>
- Seals around penetrations through fire rated walls

1b Fire Compartmentation / Separation

Tagged

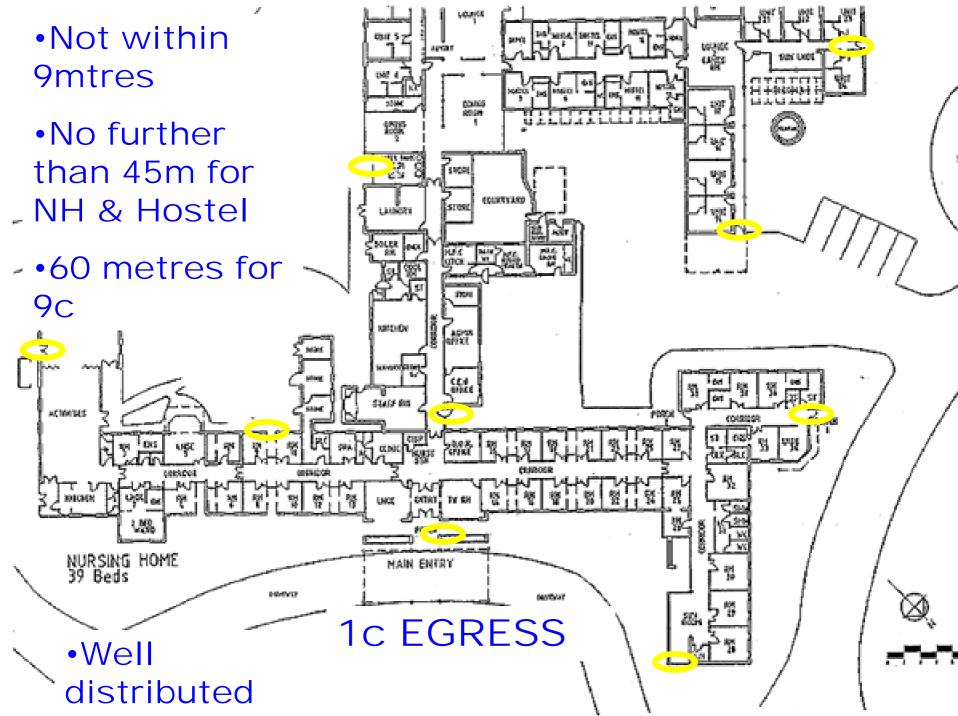
- Fire doors are appropriately tagged with correct rating depending on BCA Type of construction
- Hostel 35mm thick solid core doors with selfclosers

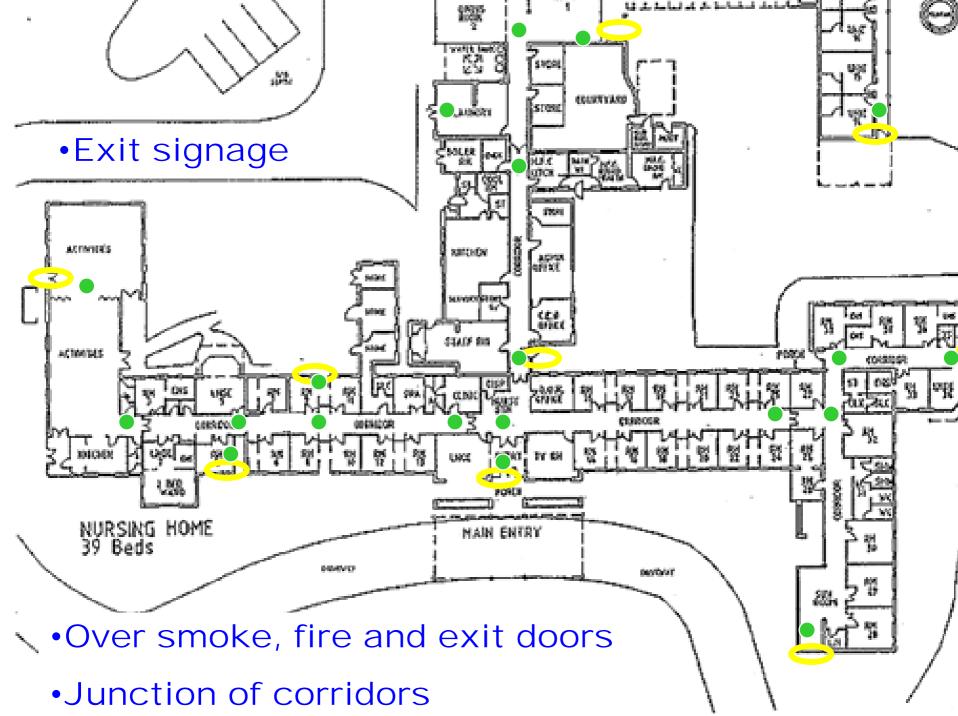
Non-fire rated wall and no self-closer on door

SECTION 1 (CONT.)









1C Egress

Travel Distances

Nursing Home

- No Point on floor >12 metres from a point of choice
- No more than 30 metres

1C Egress (cont.)

Travel Distances

Hostel

- No more than 6 metres from resident's door to a point of choice if more than 20 metres to an exit
- Other room, no more than 20 metres to point of choice

1C Egress (cont.)

Travel Distances

9c Ageing in Place

- No Point on floor >20 metres from a point of choice
- No more than 40 metres



1C Egress

Secure Area

- Specific area or whole of building
- Compatible with egress
- May not be an exit door



1C Egress Blockages

Equipment stored in corridors



1C Egress

Discharge

- Enclosed courtyard
- Unmade and uneven exit paths



1C Egress

Storage Beneath Stairs

- Fire isolated
- Compromises egress from upper storey

Door Swing and Hardware – Three common problems







1d Smoke Compartmentation / Separation

Nursing Homes

Floor area >500m²

Hostels

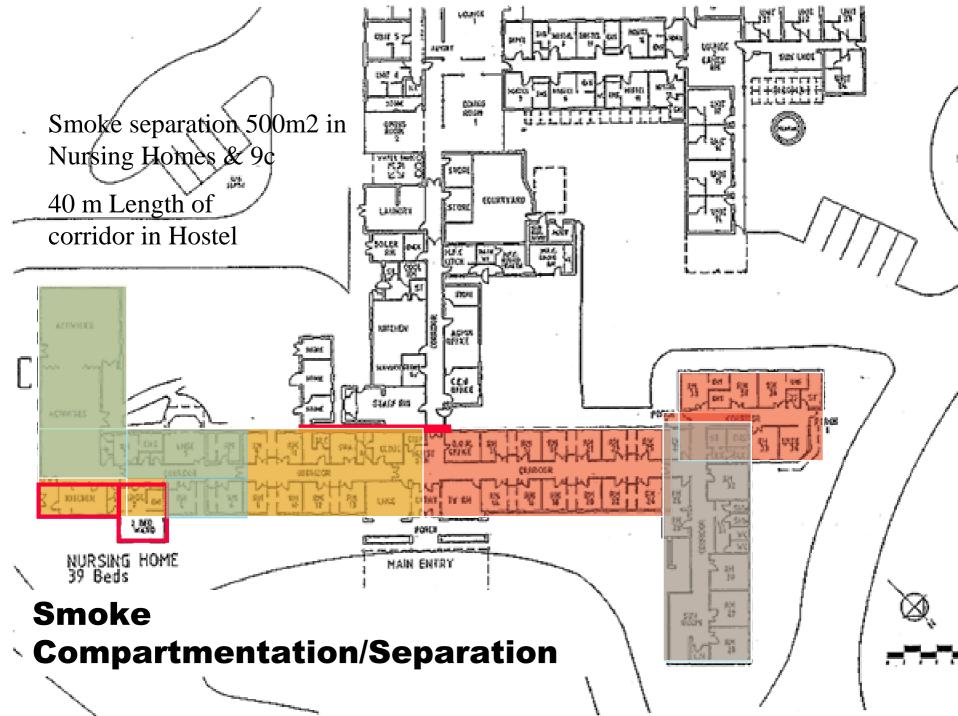
Length of corridor > 40m

9c Ageing in Place

Floor area >500m²







1e Fire Fighting Equipment

- Fire hydrant and Hose required where floor area
 >500m²
- Hose reels to be within 4 metres of an exit or adjacent to an internal hydrant
- Cover floor area within 36 metres
- Not pass through fire or smoke doors
- Fire Hose Reel not required in 9c

1e Fire Fighting Equipment

- Fire extinguisher 1.5 metres for electrical switch boards (Dry Chemical)
- Nurses station, kitchen offices, laundry etc

1f Alarm, Detection & Evacuation Systems

- Early Warning and Intercommunication System = full points
- Smoke detectors in Residents' rooms, corridors
- Heat Detectors in Kitchen, Laundry and areas where smoke detector may register a false alarm
- Connected to Fire Brigade











Magnetic Hold open devices



1f Alarm, Detection & Evacuation Systems

- Break Glass alarms no part of floor >30m
- Regular Maintenance

1g Summoning Assistance and Evacuation

- Public address system to assist in evacuation
- Not required in addition to EWIS
- Nurse call identifies room and bed in multi-bed room
- Easily accessible





Inappropriate nurse Call System





1g Summoning Assistance and Evacuation

- Other Alarms additional points area
 - Electronic paging system
 - Personal monitoring devices
 - Dementia, bed wetting, bed sensor etc
- More than two alarms connected to a central monitoring system