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ADAPTABLE DESIGN GUIDELINES

Adaptable design creates liveable residences for a wider range of persons than current building codes require. By considering design features that can be easily and inexpensively incorporated at a future time, adaptable design also allows flexibility for residents whose needs may change over time.

The three levels of the Adaptable Design Guidelines are in addition to the Barrier-Free requirements of the current Building Code. Level One consists of basic design and features, and is required in all multiple unit buildings with common corridors (MUB). Level Two and Level Three elements provide for a greater range of adaptability. Level Two adaptable design is intended to provide persons who require a mobility aid with the ability to move easily in and out of the building, common areas and individual units. The degree of adaptability increases in Level Three Units, providing full access in all unit spaces.

The Adaptable Design Policy (originally adopted in 1998) was updated in January 2013 as follows:

- 25 percent units in a MUB must achieve Level Two;
- for each Level Two unit, 1.86 m² will be excluded from floor area calculations; •
- for each Level Three unit, 4.19 m² will be excluded from floor area calculations.

In applying the Guidelines, the City will recognize that new developments and technology may result in equivalents that meet the intent of a specific requirement.

The Adaptable Design Guidelines are presented in two charts:

- 1. The **Design Elements Checklist** contains items related to initial design and construction phases.
- 2. The Fixtures & Finishes Checklist consists of items which are added during the finishing of a residential building or dwelling unit.

Drawings are available which illustrate the priority features of adaptable design to guide the design process.

Please note the following:

- The 25 percent requirement for Level 2 Adaptable Design must include a mix of unit types; *
- Flooring examples for building entry and Level 2 and Level 3 kitchen and bathrooms must be * provided;
- One workable example of each adaptive device (window opener, pocket door latching hardware, etc.) must be provided;
- Architectural drawings must include the following:
 - List of adaptable design elements under Level 1, Level 2, Level 3;
 - Project Summary Sheet to include information as per attached forms (AD Unit List; Residential Unit Summary, Adaptable Design Unit Calculation, Parking Calculation);
 - Door and Window schedules with specific Adaptable Design elements listed; -
 - Cross-sections or details of transition from interior floor onto patio/balcony;
 - Scaled drawing of areas where ramps would be installed in future;
 - Cross-section of detail of curbs and ramps;
 - Illustration of future wheel-in shower installation;
 - Notations on drawings to label each unit (unit type, adaptable design level type 1, 2 or 3, sq. _ footage):
 - Unit plans prepared at 1/4" to 1-0" foot or 1:50 (metric) for each adaptable design unit type, with critical dimensions provided.

Please refer to the 2014 Building Access Handbook for details on accessibility elements.

ADAPTABLE DESIGN GUIDELINES

DESIGN ELEMENTS

City of North Vancouver Zoning Bylaw, 1995, No. 6700 Amendment Bylaw No. 2005, No. 7721 - Figure 5 - 1

| | LEVEL ONE | LEVEL TWO | LEVEL THREE |
|-----------------|---|--|--|
| BUILDING ACCESS | Outside stairs – maximum degree of colour contrast on nosing of each stair | Outside stairs – maximum degree of colour contrast on nosing of each stair | Outside stairs – maximum degree of colour contrast on nosing of each stair |
| BUILDING ACCESS | Curb cuts have tactile and visual cues | Curb cuts have tactile and visual cues | Curb cuts have tactile and visual cues |
| BUILDING ACCESS | Unobstructed access to main building entrances from street/sidewalks | Unobstructed access to main building entrances from street/sidewalks | Unobstructed access to main building entrances from street/sidewalks |
| BUILDING ACCESS | | Unobstructed internal access: from parking levels containing accessible parking (5' or 1520mm corridors; 2' or 610mm clear wall space adjacent to door latch) * garbage and recycling receptacles and storage lockers no stairs within building circulation including corridors on residential levels accessible storage lockers for each unit | Unobstructed internal access: from parking levels containing accessible parking (5' or 1520mm corridors; 2' or 610mm clear wall space adjacent to door latch) * garbage and recycling receptacles and storage lockers no stairs within building circulation including corridors on residential levels accessible storage lockers for each Level 3 unit |
| BUILDING ACCESS | Canopy over main building entrances (3' or 915mm) and enterphone | Canopy over main building entrances (3' or 915mm) and enterphone | Canopy over main building entrances (3' or 915mm and enterphone |
| BUILDING ACCESS | | Provide automatic door opener for at least one building entry door at ground level as well as doors leading into the building on each underground parkade level where disability parking is provided | Provide automatic door opener for at least one building entry door at ground level as well as doors leading into the building on each underground parkade level where disability parking is provided |
| BUILDING ACCESS | Disability Parking provided in accordance with Zoning bylaw Figure 9-4 as attached | Disability Parking provided in accordance with Zoning bylaw Figure 9-4 as attached. | Disability Parking provided in accordance with Zoning bylaw Figure 9-4 as attached |
| BUILDING ACCESS | | 3' or 915mm building and suite entry doors | 3' or 915mm building and suite entry doors |
| BUILDING ACCESS | Flush thresholds throughout the building (maximum 1/2" or 13mm height) | Flush thresholds throughout the building (maximum 1/2" or 13mm height) | Flush thresholds throughout the building (maximum 1/2" or 13mm height) |
| BUILDING ACCESS | Accessible building enterphone, call buttons and, where provided, suite door bells * | Accessible building enterphone, call buttons and, where provided, suite door bells * | Accessible building enterphone, call buttons and, where provided, suite door bells * |

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| COMMON AREAS | | Accessible mailboxes for all AD Level 2 units, and | Accessible mailboxes for all AD Level 3 units, |
|--------------------|---|---|---|
| | Comidana minimum Al en 4000mm uvida (evenent | 5' or 1520mm turning radius in front * | and 5' or 1520mm turning radius in front * |
| CIRCULATION | Corridors minimum 4' or 1220mm wide (except for service access areas) * | Corridors minimum 4' or 1220mm wide (except for | Corridors minimum 4' or 1220mm wide (except for service access areas) * |
| | Tor service access areas) | Service access areas) * | , |
| | | Provide 5' or 1520mm turning radius inside and | Provide 5' or 1520mm turning radius inside |
| CIRCULATION | | outside the entry corridor of each dwelling unit * | and outside the entry corridor of each dwelling unit * |
| | | | |
| SUITE CIRCULATION | | Provide wiring for an automatic door opener for | Provide wiring for an automatic door opener |
| | | the suite entry door | for the suite entry door |
| | | Provide 2' or 610mm clear wall space adjacent to | Provide wiring for an automatic door opener |
| | | door latches where door swings toward user | for the suite entry door. Provide 2' or 610mm |
| SUITE CIRCULATION | | (pocket doors acceptable for bathrooms and | clear wall space adjacent to door latches |
| | | bedrooms)* | where door swings toward user (pocket doors |
| | | | acceptable for bathrooms and bedrooms)* |
| DOODS | | Minimum one bathroom, minimum one bedroom | Minimum one bathroom, minimum one |
| DOORS | | and storage room doors 2'-10" or 860mm clear | bedroom and storage room doors 2'-10" or |
| | | opening" Minimum one door 2' - 10" or 860mm clear door | 860mm clear opening Minimum one door 2 - 10" or 860mm clear |
| PATIOS & BALCONIES | | | |
| | | opening Minimum and patie on holeony degrail with | door opening |
| PATIOS & BALCONIES | | Minimum one patio or balcony doorsill with | Minimum one patio or balcony doorsill with |
| | | maximum ½" or 13mm threshold** | maximum ½" or 13mm threshold ** |
| PATIOS & BALCONIES | | Minimum 5' or 1520mm turning radius on patio / | Minimum 5' or 1520mm turning radius on patio |
| | | balcony | / balcony |
| WINDOWS | | Opening mechanism maximum 46" or 1168mm | Opening mechanism maximum 46" or |
| WINDOWS | | above floor (provide notation on window schedule) | 1168mm above floor (provide notation on window schedule) |
| | | Provide minimum 6-0' or 1800mm horizontal | Provide minimum 6-0' or 1800mm horizontal |
| | | windows in living room, dining room and minimum | windows in living room, dining room and |
| WINDOWS | | one bedroom where sills are not more than 2'- 6" | minimum one bedroom where sills are not |
| | | or 750mm above the floor | more than 2'- 6" or 750mm above the floor |
| KITCHEN | | | |
| | | Continuous counter between sink and stove* | Continuous counter between sink and stove* |
| KITCHEN | | | Sink cabinet minimum 2'8" or 810mm wide |
| KITCHEN | | | Provide sufficient space for future installation |
| | | | of cooktop and wall oven |
| KITCHEN | | | Provide for potential 2'8" or 810mm wide |
| | | | undercounter workspace |
| KITCHEN | | | Lower edge of upper cupboards 4'6" or |
| | | | 1350mm above floor |

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|---------------------------------------|---------------------------------------|---|--|
| KITCHEN | 1 | | Minimum 4' or 1220mm floor space between base cabinets / walls (possible with removal of |
| µ] | · · · · · · · · · · · · · · · · · · · | ′ | sink cabinet) * |
| MIN. ONE BATHROOM | 1 | Toilet located adjacent to wall (min 3' or 915mm length) * | Toilet located adjacent to wall (min 4'6" or 1370mm length) * |
| MIN. ONE BATHROOM | | Provide turning radius within bathroom (may result from removal of vanity cabinet)* | Provide turning radius within bathroom (may result from removal of vanity cabinet)* |
| MIN. ONE BATHROOM | | 3' or 915mm clearance along full length of tub * | 3' or 915mm clearance along full length of tub |
| MIN. ONE BATHROOM | | Tub control valve placed at outer edge of tub, with | Tub control valve placed at outer edge of tub, |
| | · · · · · · · · · · · · · · · · · · · | tub spout remaining in central position * | with tub spout remaining in central position * |
| MIN. ONE BATHROOM | · | Accessible storage * | Accessible storage* |
| MIN. ONE BATHROOM | · · · · · · · · · · · · · · · · · · · | | Provide pocket door or door swing out * |
| MIN. ONE BATHROOM | 1 | | Space under sink minimum 2'8" or 810mm wide * |
| MIN. ONE BATHROOM | | | Provide for the possible future installation of an accessible shower stall, sized at least 3'-0" x 5'-0" or 910mm x 1500mm - refer to the 1998 BC Building Access Handbook for details |
| MIN. ONE BEDROOM | | | Sufficient manoeuvring room between closet and double bed * |
| MIN. ONE BEDROOM | | | Provide 3' or 915mm access to window opening * |
| LAUNDRY FACILITIES | | | Provide front loading side-by-side washer / dryer in-suite or in common area |
| LAUNDRY FACILITIES | 1 | | 4' or 1220mm manoeuvring space in front of washer / dryer |

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<u>Disability Parking Requirements</u> for Medium Density, High Density, and Accessory Apartment Residential Uses

| Disability Parking S | ED number of Spaces to be provided for e Design Dwelling Units | REQUIRED number of Disability Parking Spaces to be provided for Level 2 or 3 Adaptable Design Dwelling Units | | | |
|--|--|--|---|--|--|
| Total Required Parking SpacesRequired number of Disability Parking Spaces for Level 1 Adaptable Design Dwelling Units | | Total Required Parking Spaces | Required number of Disability Parking Spaces for Level 2 and 3 Adaptable Design Dwelling Units | | |
| | | | | | |
| 1 – 25 | 1 | 1 – 25 | 2 | | |
| 26 – 50 | 2 | 26 – 50 | 4 | | |
| 51 – 100 | 3 | 51 – 100 | 6 | | |
| 101- 150 | 4 | 101 – 150 | 8 | | |
| 151 – 200 | 5 | 151 – 200 | 10 | | |
| 201 –250 | 6 | 201 – 250 | 12 | | |
| 251-300 | 7 | 251 - 300 | 14 | | |
| 301 – 350 | 8 | 301 – 350 | 16 | | |
| 351 – 400 | 9 | 351 - 400 | 18 | | |
| 401 – 450 | 10 | 401 – 450 | 20 | | |
| | | | | | |

• Calculation of Disability Parking Spaces is based on the required number of parking spaces rather than the total parking spaces provided.

Figure 9 - 5

Disability Parking Spaces Requirements for all other non-residential Uses:

| Total Number of Required Parking Spaces | Required Number of Disability Parking Spaces |
|---|---|
| 0-25 | 1 |
| 26-50 | 2 |
| 51-100 | 3 |
| 101-150 | 4 |
| 151-200 | 5 |
| One Disability parking Space per 50 req | uired parking spaces over 200 spaces. |

ADAPTABLE DESIGN GUIDELINES

FIXTURES AND FINISHES

| | LEVEL ONE | LEVEL TWO | LEVEL THREE |
|-------------------------------------|---|---|---|
| BASIC | Easy to read building address numbers (min. 4" or 100mm high in contrasting colours) | Easy to read building address numbers (min. 4" or 100mm high in contrasting colours) | Easy to read building address numbers (min. 4" or 100mm high in contrasting colours) |
| BASIC | Lighting levels to a minimum of 100 lux outside and inside main building entries and suite entries | Lighting levels to a minimum of 100 lux outside and inside main building entries and suite entries | Lighting levels to a minimum of 100 lux outside and inside main building entries and suite entries |
| BASIC | No polished finish on building entry flooring (provide flooring samples) | No polished finish on building entry flooring (provide flooring samples) | No polished finish on building entry flooring (provide flooring samples) |
| BASIC | Except for pocket doors, sliding doors, or doors equipped with openers, lever door handles are required on all doors (provide notation on door schedule) | Except for pocket doors, sliding doors, or doors equipped with openers, lever door handles are required on all doors (provide notation on door schedule) | Except for pocket doors, sliding doors, or doors equipped with openers, lever door handles are required on all doors (provide notation on door schedule) |
| BASIC | Signage throughout common areas has well contrasted colours | Signage throughout common areas has well contrasted colours | Signage throughout common areas has well contrasted colours |
| BASIC | Elevators have well contrasted control buttons | Elevators have well contrasted control buttons | Elevators have well contrasted control buttons |
| CIRCULATION | | Slip resistant flooring | Slip resistant flooring |
| CIRCULATION | | Colour contrasting exit doors | Colour contrasting exit doors |
| BUILDING MEETING / AMENITY ROOMS | | Provide carpet and drapes to absorb sound and decrease echoes | Provide carpet and drapes to absorb sound and decrease echoes |
| UNIT ENTRIES | | Adjustable door closers to reduce force to open door to maximum 22N or 5 lbs. | Adjustable door closers to reduce force to open door to maximum 22N or 5 lbs. |
| UNIT ENTRIES | | Door handle at 40" or 1000mm above the floor, with deadbolts placed immediately above or below | Door handle at 40" or 1000mm above the floor, with deadbolts placed immediately above or below |
| UNIT ENTRIES | | | Two door viewers: 3'5" or 1050mm and 5' or 1520mm |
| UNIT FLOORING | | Non-slip flooring in kitchen and minimum one bathroom (provide flooring samples) | Non-slip flooring in kitchen and minimum one bathroom (provide flooring samples) |
| UNIT FLOORING | | High density, low level loop carpet and underlay maximum ½" or 13mm height | High density, low level loop carpet and underlay maximum 1/2" or 13mm height |
| PATIOS AND BALCONIES | | Outdoor light fixture provided | Outdoor light fixture provided |
| PATIOS AND BALCONIES | | Electrical outlet provided | Electrical outlet provided |

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| | LEVEL ONE | LEVEL TWO | 7 of 11 |
|------------|---|---|---|
| ELECTRICAL | | Switches, controls, thermostats and the highest breaker in the suite panel, to be installed no higher than 46" or 1170mm above finished floor | Switches, controls, thermostats and the highest breaker in the suite panel, to be installed no higher than 46" or 1170mm above finished floor |
| ELECTRICAL | | Electrical outlets, cable outlets, telephone jacks not lower than 18" or 450mm above floor | Electrical outlets, cable outlets, telephone jacks not lower than 18" or 450mm above floor |
| ELECTRICAL | Within suites a duplex outlet is required within 8" or 200mm of a telephone jack | Within suites a duplex outlet is required within 8" or 200mm of a telephone jack | Within suites a duplex outlet is required within 8" or 200mm of a telephone jack |
| ELECTRICAL | Wiring for visual alarm system in living room and minimum one bedroom, connected to fire alarm system | Wiring for visual alarm system in living room and minimum one bedroom, connected to fire alarm system | Wiring for visual alarm system in living room and minimum one bedroom, connected to fire alarm system |
| ELECTRICAL | | Rocker switches | Rocker switches |
| ELECTRICAL | | | Double bulb ceiling fixtures |
| ELECTRICAL | | | Provide wiring for automatic door opener and strike at unit entry |
| WINDOWS | | Easily grasped and operated mechanism for opening and locking windows | Easily grasped and operated mechanism for opening and locking windows |
| KITCHEN | | Task lighting of at least 100 lux level at sink, stove and work areas in addition to general overhead lighting | Task lighting of at least 100 lux level at sink, stove and work areas in addition to general overhead lighting |
| KITCHEN | | Pull-out work boards at 2'8" or 810mm height * | Pull-out work boards at 2'8" or 810mm height * |
| KITCHEN | | Lever handle faucets and cabinet handles which can be easily used with an open hand eg. "D" or "J" cabinet handles | Lever handle faucets and cabinet handles which can be easily used with an open hand eg. "D" or "J" cabinet handles |
| KITCHEN | | Adjustable shelves in all cabinets | Adjustable shelves in all cabinets |
| KITCHEN | | | Drawer storage in key areas* |
| KITCHEN | | | Provision for removal of sink cabinet and lowering of counter height |
| KITCHEN | | | Provision in water supply and drain to allow for a 4" (100mm) drop in sink height (offset plumbing) |
| KITCHEN | | | Provision for the future installation of at least one counter receptacle in front of cabinets |
| KITCHEN | | | Where regular refrigerator installed initially, provide adequate space for side by side model |
| KITCHEN | | | Contrasting knobs on stove / cook top |

| | LEVEL ONE | LEVEL TWO | LEVEL THREE ^{8 of 11} | | |
|-------------------|--|---|---|--|--|
| MIN. ONE BATHROOM | Solid blocking provided in walls of tub / shower and toilet areas, and behind towel bars * | Solid blocking provided in walls of tub / shower and toilet areas, and behind towel bars * | Solid blocking provided in walls of tub / shower and toilet areas, and behind towel bars * | | |
| MIN. ONE BATHROOM | Pressure balanced tub / shower valves | Pressure balanced tub / shower valves | Pressure balanced tub / shower valves | | |
| MIN. ONE BATHROOM | | Provision in water supply and drain to allow for a 4" (100mm) drop in vanity height (offset plumbing) | Provision in water supply and drain to allow for a 4" (100mm) drop in vanity height (offset plumbing) | | |
| MIN. ONE BATHROOM | | Provision for vanity sink removal | Provision for vanity sink removal | | |
| MIN. ONE BATHROOM | | Adjustable height shower head or hand-held shower head on adjustable bracket* | Adjustable height shower head or hand-held shower head on adjustable bracket * | | |
| MIN. ONE BATHROOM | | | Water temperature regulator on tub / shower faucet | | |
| LIVING ROOM | | One switched electrical outlet | One switched electrical outlet | | |
| BEDROOMS | | Three-way switched outlet at bed area and doorway | Three-way switched outlet at bed area and doorway | | |
| BEDROOMS | | Provide light fixture in or adjacent to closet | Provide light fixture in or adjacent to closet | | |
| BEDROOMS | Telephone jack | Telephone jack | Telephone jack | | |
| IN-SUITE STORAGE | | Provide light and electrical outlet | Provide light and electrical outlet | | |

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| 9 of 11 Adaptable Design Unit List | | | | | | | | | | |
|---------------------------------------|------------|------------------------|------|------------------------------|---|--|--|------------------------|---------------------|----------|
| Unit Address | Unit Label | Unit Type (bedroom) | Adap | Level of Adaptable Design | | Level of Floor / Adaptable Design Level | | Unit Size (Sq. Ft.) | Excl. Floor Area | Comments |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
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| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | 1 | 2 | 3 | | | | | |
| | | | | | | | | | | |

| RESID | ENTIAL | | | | | | | | |
|--------------|--------|----------|----------------|------|------------------|------|-------------|------|-------------|
| Level | Floors | Unit/Flr | Total Units | 1 BR | 1 BR + DEN | 2 BR | 2BR+ DEN | 3 BR | 3BR+ DEN |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Total: | | | | | | | | | |
| % | | | 100% | % | % | % | % | % | % |
| Area (SF) | | | | | | | | | |
| | | | | | | | | | |

Note: All areas and calculations are preliminary and approximate.

| Adaptable Des | sign Unit C | alculation | | | | |
|---------------|-------------|------------|----------------|------------|------------|------------|
| Level | Floors | Unit/Flr | Total Units | AD Level 1 | AD Level 2 | AD Level 3 |
| Lobby/Entry | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| | | | | | | |
| | Tota | l Provided | | | | |
| | | % | 100% | % | % | % |
| | Tota | I Required | | % | % | % |
| | | - | | | | |

Note: All areas and calculations are preliminary and approximate.

PARKING CALCULATION

RESIDENTIAL:Per Dwelling Unit =(Total Est'd. # __)COMMERCIAL:Per Square Foot =(Total Est'd. # __)

| | | RESIDENTI | AL | С | COMMERCIAL | | | |
|-------|---------------|-----------|--------------------------------|--------------|--------------|--------------------------------|----------------------|---------------------|
| Level | Full- Size | Small Car | Disability Parking Space | Full Size | Small Car | Disability Parking Space | Total Residential | Total Commercial |
| P1 | | | | | | | | |
| P2 | | | | | | | | |
| P3 | | | | | | | | |
| P4 | | | | | | | | |
| P5 | | | | | | | | |
| P6 | | | | | | | | |
| TOTAL | | | | | | | | |
| | | | | | | | | |

| PROJECT TOTAL | Total #'s | Percentage |
|--------------------|-----------|------------|
| Full Size | | % |
| Small Car | | % |
| Disability Parking | | |
| Spaces | | % |
| Visitors | | % |
| | | |
| | | |
| Bicycle | | |
| Storage Lockers | | |
| Loading | | |