

## UNEX LOADING CLASSIFICATION

Below is an extract from AS/NZS 1170:2011.1:2002, a standard which is cited in the NZBC. This table gives the minimum imposed actions on barriers for various occupancy types. To the right hand side of this table are the applicable UNEX Loading Classifications (ULC) which are stated in the specifications contained in this manual.

| <b>AS/NZS 1170.1:2002 TABLE 3.3<br/>MINIMUM IMPOSED ACTIONS FOR BARRIERS</b> |   |   |                                    |                                    |            |                  | ULC<br>(UNEX<br>Loading<br>Classifi-<br>cations) |  |
|--|---|---|------------------------------------|------------------------------------|------------|------------------|--|--|
| Type of occupancy for part<br>of the building or structure                   | Specific Uses   | Top Edge  |                                    |                                    | Infill     |                  |  |  |
|  |   | Horizontal  | Vertical                           | Inwards,<br>Outwards,<br>Downwards | Horizontal | Any<br>Direction |  |  |
|  |   | kN/m  | kN/m                               | kN                                 | kPa        | kN               |  |  |
| <b>A</b>   | <b>Domestic and residential activities</b>  | All areas within or serving exclusively one dwelling including stairs, landings, etc., but excluding external balconies and edges of roofs (see C3) | 0.35                               | 0.35                               | 0.6        | 0.5              | 0.25   | → <b>N03R</b>                              |
|  |   | Other residential (see C3)  | 0.75                               | 0.75                               | 0.6        | 1.0              | 0.5  | → <b>N07R</b>                              |
| <b>B, E</b>  | <b>Offices and work areas not included elsewhere including storage areas</b>          | Light access stairs and gangways not more than 600mm wide   | 0.22                               | 0.22                               | 0.6        | N/A              | N/A  | → <b>N02</b>                               |
|  |   | Fixed platforms, walkways, stairways and ladders for access   | 0.35                               | 0.35                               | 0.6        | N/A              | N/A  | → <b>N03C</b>                              |
|  |   | Areas not susceptible to overcrowding in office and institutional buildings also industrial and storage buildings                                   | 0.75                               | 0.75                               | 0.6        | 1.0              | 0.5  | → <b>N07C</b>                              |
| <b>AREAS WHERE PEOPLE MAY CONGREGATE</b>                                     |   |   |                                    |                                    |            |                  |  |  |
| <b>C1/C2</b>   | <b>Areas with tables or fixed seating</b>   | Areas with fixed seating adjacent to a Balustrade, restaurants, bars, etc.  | 1.5                                | 0.75                               | 0.6        | 1.5              | 1.5  | → <b>N15</b>                               |
| <b>C3</b>  | <b>Areas without obstacles for moving people and not susceptible to over-crowding</b> | Stairs, landings, external balconies, edges of roofs, etc.  | 0.75                               | 0.75                               | 0.6        | 1.0              | 0.5  | → <b>N07C</b>                              |
| <b>C5</b>  | <b>Areas susceptible to over-crowding</b>   | Theatres, cinemas, grandstands, discotheques, bars, clubs, auditoriums, shopping malls (see also D), assembly areas, studios, etc                   | 3.0*                               | 0.75                               | 0.6        | 1.5              | 1.5  | → <b>N30</b><br>→ <b>N20<sup>(1)</sup></b> |
| <b>D</b>   | <b>Retail areas</b>   | All retail areas including public areas of banks/building societies (see C5 for areas where over-crowding may occur)                                | 1.5                                | 0.75                               | 0.6        | 1.5              | 1.5  | → <b>N15</b>                               |
| <b>F/G</b>   | <b>Vehicular</b>  | Pedestrian areas in car parks including stairs, landings, ramps, edges of internal floors, footways, edge of roofs                                  | 1.5                                | 0.75                               | 0.6        | 1.5              | 1.5  | → <b>N15</b>                               |
|  |   | Horizontal loads imposed by vehicles  | Requires site specific UNEX design |                                    |            |                  |  |  |

<sup>(1)</sup> N20 is only applicable where 2.0kN/m horizontal top edge load is acceptable by the Building Consent Authorities.

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