

TABLE 3.1
REFERENCE VALUES OF IMPOSED FLOOR ACTIONS

Type of activity/occupancy for part of the building or structure	Specific uses	Uniformly distributed actions kPa	Concentrated actions kN
A Domestic and residential activities (also see Category C)			
A1 Self-contained dwellings	General areas, private kitchens and laundries in self-contained dwellings	1.5	1.8 ⁽¹⁾
	Balconies, and roofs used for floor type activities, in self-contained dwellings—	1.5	1.5 kN/m run along edge
	(a) less than 1 m above ground level	2.0	1.8 ⁽¹⁾
	(b) other	2.0	2.7
	Stairs ⁽²⁾ and landings in self-contained dwellings	0.5	1.4 ⁽³⁾
	Non-habitable roof spaces in self-contained dwellings	2.0	1.8 ⁽¹⁾
	General areas, bedrooms, hospital wards, hotel rooms, toilet areas	3.0	2.7
	Communal kitchens	same as areas providing access but not less than 4.0	1.8
	Balconies, and roofs used for floor type activities, with community access	3.0	4.5
	Operating theatres, X-ray rooms, utility rooms	3.0	3.5
	Work rooms (light industrial) without storage	3.0	2.7 ⁽³⁾
	Offices for general use	3.0	2.7
	Communal kitchens	5.0	4.5
	Commercial/institutional kitchens	3.0	4.5
	Laundries	3.0	4.5
	Laboratories	5.0	4.5
	Factories, workshops and similar buildings (general industrial)	same as areas providing access but not less than 4.0	1.8
	Balconies, and roofs used for floor type activities	4.5 kN/m run uniformly distributed over the width	—
	Fly galleries (in theatres, etc.)	2.8	—
	Grids (over the area of proscenium width by stage depth)		

(continued)

TABLE 3.1 (continued)

Type of activity/occupancy for part of the building or structure	Specific uses	Uniformly distributed actions kPa	Concentrated actions kN	
C Areas where people may congregate				
C1 Areas with tables	Public, institutional and communal dining rooms and lounges, cafes and restaurants ⁽⁵⁾	2.0	2.7	
	Reading rooms with no book storage	2.5	4.5	
	Classrooms	3.0	2.7	
C2 Areas with fixed seats ⁽⁶⁾	Institutional assembly areas such as classrooms, lecture theatres and similar	3.0	2.7	
	Public assembly areas such as public halls, theatres, courts of law, auditoria, conference centres and similar	4.0	2.7	
C3 Areas without obstacles for moving people	Places of worship	4.0	2.7	
	Corridors, hallways, aisles, stairs ⁽²⁾ , landings ⁽²⁾ , concourses, terraces, plazas, etc., not subject to wheeled vehicles	4.0	4.5	
	Corridors, hallways, aisles, stairs ⁽²⁾ , landings ⁽²⁾ , etc. subject to wheeled vehicles, trolleys, etc.	5.0	4.5	
	Footpaths, terraces and plazas at ground level subject to wheeled vehicles	5.0	3.1 ⁽⁴⁾	
	Museum floors and art galleries for exhibition purposes	4.0	4.5	
	Balconies, and roofs used for floor type activities	same as areas providing access but not less than 4.0	1.8	
	Dance halls and studios, gymnasia	5.0	3.6	
	Drill halls and drill rooms	5.0	9.0	
	C4 Areas with possible physical activities (see Note to Clause 3.1(b))			
C5 Areas susceptible to overcrowding (see Note to Clause 3.1(b))	Assembly areas without fixed seating (concert halls, bars, vestibules, public lounges, places of worship, shopping malls) and grandstands	5.0	3.6	
	Stages in public assembly areas	7.5	4.5	
D Shopping areas	Shop floors for the sale and display of merchandise	4.0	3.6	

(continued)

TABLE 3.1 (continued)

Type of activity/occupancy for part of the building or structure	Specific uses	Uniformly distributed actions kPa	Concentrated actions kN
E Warehousing and storage areas. Areas subject to accumulation of goods. Areas for equipment and plant	Reading rooms with book storage, e.g. libraries	4.0	4.5
	General storage other than those specified	2.4 for each metre of storage height	7.0
	Free rolling office compactus, for general filing, up to 2 m high	3.0 for each metre of storage height	to be calculated
	File rooms, office storage space, vaults and strongrooms	5.0	4.5
	Stack rooms (books)	3.3 for each metre in storage height	7.0
	Paper storage for printing plants and stationery stores, packed book storage	4.0 for each metre of storage height	9.0
	Mobile stacking, mechanically operated heavy shelving (wheels on rails, e.g. compactus)	4.0 for each metre of storage height but not less than 10.0	to be calculated
	Cold storage	4.5 for each metre of storage height but with a minimum of 15.0	9.0
	Plant rooms, fan rooms, etc., including weight of machinery	5.0	4.5
	Areas around equipment in boiler rooms (weight of equipment to be determined)	5.0	4.5
F Light vehicle traffic areas	Parking, garages, driveways and ramps restricted to cars, light vans, etc., not exceeding 2500 kg gross mass.	2.5	13 ⁽⁷⁾
G Medium vehicle traffic areas	Vehicles exceeding 2500 kg and not exceeding 10 000 kg. Driveways, ramps, repair workshops, footpaths with vehicle access, and car parking.	5.0	31 ⁽⁴⁾