

Extract from Austrian Standard B 1991-1-1

Requirements of walkable glass surfaces

Austrian Standard B 1991-1 replaces B 4014. Austrian Standard B 1991 has been created on the Basis of Eurocode 1 – Actions on Structures Part 1-1: General Actions – Densities, Self-weight and imposed loads.

Austrian Standard 1991-1-1 defines the National requirements and National Addenda.

Extract from Table 2 of ÖNORM B 1991-1-1

Service loads on floors, balconies and stairs in buildings (ÖNORM EN 1991-1-1:2003, Table 6.2)

| Category | | Areas of application | qk (kN/m ²) | Qk (kN) |
|---------------------|------|--|-------------------------|---------|
| A Residences | A1 | Rooms in Residential buildings and houses, Stations and rooms in Hospitals ¹ , Rooms in Hotels and Hostels, Kitchens, Toilets | | |
| | A1.1 | Floors | 2,0 | 2,0 |
| | A1.2 | Stairs in residences | 3,0 | 2,0 |
| | A1.3 | Balconies (Loggia) | 4,0 | 2,0 |
| | A2 | Not extendable, walkable attics ² | 1,5 | 2,0 |
| B Offices | B1 | Offices in existing buildings | 2,0 | 2,0 |
| | B2 | Rooms in office buidings ³ | 3,0 | 3,0 |

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| | | | | |
|---|------|---|-----|-----|
| C Areas with Person concentration (except Category A,B, and D) | C1 | Stairs | 3,0 | 3,0 |
| | | Areas with tables and similar, e.g. in Schools, Cafés, Restaurants, eateries, reading rooms, reception rooms ⁴ | 4,0 | 4,0 |
| | C2 | Areas with fixed seating ^{5 6} | 4,0 | 4,0 |
| | C3 | Areas (floors, stairs, corridors as well as balconies and loggia) without obstructions for movement of people | 4,0 | 4,0 |
| | C3.1 | Areas with significant Person frequency, e.g. in Museums, exhibition halls and similar as well as corridors in office buildings | 4,0 | 4,0 |
| | C3.2 | Areas with possible high people frequency, e.g. corridors in public buildings, Schools and administration buildings, Hotels, hospitals and train stations | 5,0 | 5,0 |
| | C4 | Areas with possible bodily activities, e.g. dance halls, gymnasias, stages | 5,0 | 5,0 |
| | C5 | Areas with possible mass person accumulation, e.g. in buildings with public performances such as concert halls, Stadium with terraces and access areas as well as station platforms | | |
| | C5.1 | Floors | 5,0 | 4,0 |
| | C5.2 | Stairs in residences | 6,0 | 4,0 |
| | | Balconies (Loggia) | 6,0 | 4,0 |
| D Retail areas | D1 | Areas in individual stores | 4,0 | 4,0 |
| | D2 | Areas in department stores | 5,0 | 5,0 |

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Extract from Table 3 of ÖNORM B 1991-1-1-1

Service loads on storage areas, Table 6.4

| Category | | Areas of application | qk (kN/m ²) | Qk (kN) |
|-----------------|------|---|-------------------------|---------|
| E Storage areas | E1.2 | Industry buildings and halls, depending on intended use, at least | 4,0 | 4,0 |
| | E1.3 | Storage rooms and halls, depending on intended use, at least | 5,0 | 5,0 |
| | E1.4 | Book collections and Archives, depending on arrangement, at least | 5,0 | 5,0 |

¹ Rooms in hospitals are to be put into Category C1, when the use of treatment and diagnosing equipment cannot be excluded.

² Extendable attics are to be put into Category C1

³ Corridors, Stairs and Balconies in office buildings are generally to be put into Category C3.1

⁴ It is recommended that areas with tables be put into Category C3.1, when it is not possible to exclude high concentration of people should the tables be removed. This is particular to Schools, halls and Restaurants etc.

⁵ In rooms with fixed seating areas where there are areas without seating greater than 25 m², then Category C3.2 is to be used

⁶ Terraces with fixed seats are Category C2; otherwise Category C5 is to be used

NOTE 1: Terraces and associated walkable roofs are to be categorised the same as the adjacent rooms.

NOTE 2: For areas that are used as archives or libraries, Table 3 is to be used

NOTE 3: Areas which are outside of buildings but which cannot be driven on (e.g. cellar roofs under Gardens) must be categorised according to the people frequency.