

## AIR REQUIREMENTS FOR DIFFERENT OCCUPANCY CLASSIFICATIONS

| Occupancy                                  | Minimum air requirement in litres per second |                      | Remarks  |
|--|--|----------------------|--|
|  | Smoking                                      | Filtered/non smoking |  |
| <b><u>Public halls</u></b>                 |  |                      |  |
| Assembly halls                             | 7.5  | 3.5                  | Air supply required per person                       |
| Churches                                   | 7.5  | 3.5                  |  |
| Theatres (lobbies and auditoria)           | 7.5  | 3.5                  |  |
| Cinemas                                    | 7.5  | 3.5                  |  |
| <b><u>Dry cleaners/laundries</u></b>       |  |                      |  |
| Commercial dry cleaners                    | -  | 120.0                | Air supply required per person                       |
| Storage/collection areas                   | 7.5  | 5.0                  |  |
| Laundries                                  | 7.5  | 5.0                  |  |
| <b><u>Educational buildings</u></b>        |  |                      |  |
| Classrooms                                 | -  | 7.5                  | Air supply required per person                       |
| Laboratories                               | -  | 7.5                  |  |
| Libraries                                  | -  | 6.5                  |  |
| <b><u>Food and eating facilities</u></b>   |  |                      |  |
| Dining rooms and restaurants               | 7.5  | 5.0                  | Air supply required per person                       |
| Cafeterias                                 | 7.5  | 5.0                  |  |
| Bars and cocktail lounges                  | 7.5  | 5.0                  |  |
| Kitchens                                   | 17.5   | 17.5                 |  |
| <b><u>Photographic darkrooms</u></b>       | -  | 10.0                 | Air supply required per person                       |
| <b><u>Dwelling units</u></b>               |  |                      |  |
| Kitchens                                   | 50.0   | 50.0                 | Air supply required per person                       |
| Other living areas                         | 5.0  | 5.0                  |  |
| Bathrooms and shower rooms                 | 25.0   | 25.0                 |  |
| Rooms containing w.c. / urinals            | 25.0   | 25.0                 |  |
| <b><u>Shops</u></b>                        |  |                      |  |
| Malls, arcades, warehouses                 | 7.5  | 7.5                  | Air supply required per person                       |
| Sales floors, showrooms                    | 7.5  | 7.5                  |  |
| Dressing rooms                             | 7.5  | 7.5                  |  |
| <b><u>Sport / amusement facilities</u></b> |  |                      |  |
| Ballrooms and discos                       | 7.5  | -                    | Air supply required per person                       |
| Bowling alleys (seating area)              | 7.5  | -                    |  |
| Playing area (gymnasiums)                  | -  | 10.0                 |  |
| Locker rooms                               | 7.5  | 7.5                  |  |
| Spectator areas                            | 5.0  | -                    |  |
| Health spas / slimming salon               | -  | 7.5                  |  |
| <b><u>Garages</u></b>                      |  |                      |  |
| Parking garages                            | 7.5  | 7.5                  | Air supply required per m <sup>2</sup> of floor area |
| Ticket kiosks                              | 5.0  | 5.0                  | Air supply required per person                       |
| Motor car repairs                          | 10.0   | 10.0                 | Air supply required per m <sup>2</sup> of floor area |
| <b><u>Hotels, motels, dormitories</u></b>  |  |                      |  |
| Lobbies                                    | 7.5  | 5.0                  | Air supply required per person                       |
| Conference rooms                           | 7.5  | 5.0                  |  |
| Assembly rooms                             | 7.5  | 5.0                  |  |
| Bedrooms                                   | 7.5  | -                    |  |
| Living rooms (suites)                      | 7.5  | -                    |  |
| Central kitchens                           | 17.5   | 17.5                 | Air supply required per person                       |
| Private kitchens                           | 50.0   | 50.0                 |  |

|   |  |      |  |
|---|--|------|--|
| <b><u>Libraries</u></b>   |  |      |  |
| General   | -                                      | 6.5  | Air supply required per person   |
| Book store  | -                                      | 3.5  |  |
| <b><u>Offices</u></b>   |  |      |  |
| General   | 7.5                                    | 5.0  | Air supply required per person   |
| Meeting and waiting rooms   | 7.5                                    | 5.0  |  |
| Conference and board rooms  | 10.0                                   | 5.0  |  |
| Cleaner's room  | -                                      | 1.0  | Air supply required per m <sup>2</sup> of floor area                       |
| <b><u>Stages, TV, radio and movie</u></b>                                   | 7.5                                    | 5.0  | Air supply required per person   |
| <b><u>Rooms containing baths, showers, wc pans or urinals</u></b>           |  |      |  |
| Serving a dwelling unit or any bedroom                                      | 25.0                                   | 25.0 | Air supply required per room   |
| All others  | 20.0                                   | 20.0 | Air supply required per bath, shower, wc, urinal or 600 mm of urinal space |
| <b><u>Transportation</u></b>  |  |      |  |
| Waiting rooms, ticket areas, corridor and gate areas, platforms, concourses | 7.5                                    | 5.0  | Air supply required per person   |
| <b><u>Smoking rooms</u></b>   | 20.0                                   | -    | Air supply required per person   |
| Occupancies other than those listed above                                   | As determined by the City of Cape Town |      |  |

**NOTE: The use of a dash in the above table signifies no requirement.**

The above Table has been extracted from the **SABS Code 0400 of 1990** and been recreated by the Environmental Health Section for the purpose of this web site.