

| Zonenübersicht Luftvolumenströme |                                   |                      |                      |                              |                                 |                                               | Formblatt Z3 - DIN/TS 12831-1 |                       |                      |                                                  |                                                |                           |  |
|----------------------------------|-----------------------------------|----------------------|----------------------|------------------------------|---------------------------------|-----------------------------------------------|-------------------------------|-----------------------|----------------------|--------------------------------------------------|------------------------------------------------|---------------------------|--|
| Gebäudeeinheit: Gebäude          |                                   |                      |                      |                              |                                 | Zone: Gebäude                                 |                               |                       |                      |                                                  |                                                |                           |  |
| 0   1   2                        | 3                                 | 4                    | 5                    | 6                            | 7                               | 8                                             | 9                             | 10                    | 11                   | 12                                               | 13                                             | 14                        |  |
| Raum                             | Mindestaußenluft-<br>volumenstrom | Zuluft               | Abluft               | durch<br>Außenluftdurchlässe | Überströmung aus<br>Nachbarraum | Verbrennungs-/ techn.<br>bedingter Vol.-Strom | Technischer<br>Volumenstrom   | durch große Öffnungen | durch Gebäudehülle   | durch Undichtigkeiten<br>und Außenluftdurchlässe | Gesamtluftvol.<br>Leckagen, ALD<br>und Nutzung |                           |  |
|                                  |                                   |                      |                      |                              |                                 |                                               |                               |                       |                      |                                                  | Raum                                           | Zone                      |  |
|                                  |                                   |                      |                      |                              |                                 |                                               |                               |                       |                      |                                                  |                                                | f <sub>i,z</sub> = 0.5    |  |
| Nr. (i) / Bezeichnung            | q <sub>v,min,i</sub>              | q <sub>v,sup,i</sub> | q <sub>v,exh,i</sub> | q <sub>v,ATD,des,z</sub>     | q <sub>v,trans,ij</sub>         | q <sub>v,comb,i</sub>                         | q <sub>v,techn,i</sub>        | q <sub>v,open,i</sub> | q <sub>v,env,i</sub> | q <sub>v,leak+ATD,i</sub>                        | q <sub>v,env/min,i</sub>                       | q <sub>v,leak/min,i</sub> |  |
|                                  | m³/h                              |                      |                      |                              |                                 |                                               |                               |                       |                      |                                                  |                                                |                           |  |
| 00/OG.35 Geräte 3                | 35.2                              | 0.0                  | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 0.0                           | 0.0                   | 17.8                 | 8.9                                              | 35.2                                           | 17.6                      |  |
| 00/OG.36 Geräte 4                | 35.2                              | 0.0                  | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 0.0                           | 0.0                   | 13.3                 | 6.6                                              | 35.2                                           | 17.6                      |  |
| 00/OG.37 Putzmittel              | 5.3                               | 0.0                  | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 0.0                           | 0.0                   | 4.1                  | 2.1                                              | 5.3                                            | 2.6                       |  |
| 00/OG.38 Erste Hilfe             | 9.4                               | 0.0                  | 40.0                 | 0.0                          | 40.0                            | 0.0                                           | 40.0                          | 0.0                   | 3.2                  | 1.6                                              | 3.2                                            | 1.6                       |  |
| 00/OG.39 WWS                     | 2.6                               | 0.0                  | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 0.0                           | 0.0                   | 1.0                  | 0.5                                              | 2.6                                            | 1.3                       |  |
| 00/OG.40 Stuhllager              | 25.9                              | 0.0                  | 40.0                 | 0.0                          | 40.0                            | 0.0                                           | 40.0                          | 0.0                   | 16.0                 | 8.0                                              | 16.0                                           | 8.0                       |  |
| 00/OG.41 Fluchtflur              | 16.8                              | 0.0                  | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 0.0                           | 0.0                   | 6.7                  | 3.4                                              | 16.8                                           | 8.4                       |  |
| 00/OG.42 WC Damen                | 17.6                              | 0.0                  | 245.0                | 0.0                          | 245.0                           | 0.0                                           | 245.0                         | 0.0                   | 8.3                  | 4.1                                              | 8.3                                            | 4.1                       |  |
| 00/OG.43 Dusche Damen            | 17.7                              | 0.0                  | 320.0                | 0.0                          | 320.0                           | 0.0                                           | 320.0                         | 0.0                   | 11.6                 | 5.8                                              | 11.6                                           | 5.8                       |  |
| 00/OG.44 Foyer                   | 18.9                              | 0.0                  | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 0.0                           | 0.0                   | 7.7                  | 3.9                                              | 18.9                                           | 9.4                       |  |
| 00/OG.45 WC Herren               | 20.2                              | 0.0                  | 245.0                | 0.0                          | 245.0                           | 0.0                                           | 245.0                         | 0.0                   | 4.7                  | 2.3                                              | 4.7                                            | 2.3                       |  |
| 00/OG.46 Dusche Herren           | 17.7                              | 0.0                  | 320.0                | 0.0                          | 320.0                           | 0.0                                           | 320.0                         | 0.0                   | 6.9                  | 3.5                                              | 6.9                                            | 3.5                       |  |
| 00/OG.47 Technik                 | 29.7                              | 0.0                  | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 0.0                           | 0.0                   | 15.9                 | 7.9                                              | 29.7                                           | 14.9                      |  |
| 00/OG.48 Abstellraum Garten      | 16.1                              | 0.0                  | 30.0                 | 0.0                          | 0.0                             | 0.0                                           | 30.0                          | 0.0                   | 6.5                  | 3.2                                              | 6.5                                            | 3.2                       |  |
| 00/OG.49 Geräte 2                | 24.8                              | 0.0                  | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 0.0                           | 0.0                   | 11.1                 | 5.6                                              | 24.8                                           | 12.4                      |  |
| 00/OG.50 Geräte 1                | 22.0                              | 0.0                  | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 0.0                           | 0.0                   | 13.3                 | 6.6                                              | 22.0                                           | 11.0                      |  |
| 00/OG.51 Umkleide Damen          | 36.4                              | 0.0                  | 470.0                | 0.0                          | 470.0                           | 0.0                                           | 470.0                         | 0.0                   | 17.0                 | 8.5                                              | 17.0                                           | 8.5                       |  |
| 00/OG.52 Beh. WC / Lehrerumk     | 10.1                              | 0.0                  | 110.0                | 0.0                          | 110.0                           | 0.0                                           | 110.0                         | 0.0                   | 3.2                  | 1.6                                              | 3.2                                            | 1.6                       |  |
| 00/OG.53 Umkleide Herren         | 36.4                              | 0.0                  | 470.0                | 0.0                          | 470.0                           | 0.0                                           | 470.0                         | 0.0                   | 15.3                 | 7.7                                              | 15.3                                           | 7.7                       |  |
| 00/OG.54 Beh. WC / Lehrerumk     | 10.1                              | 0.0                  | 110.0                | 0.0                          | 110.0                           | 0.0                                           | 110.0                         | 0.0                   | 3.2                  | 1.6                                              | 3.2                                            | 1.6                       |  |
| 00/OG.55 Halle                   | 861.6                             | 2400.0               | 0.0                  | 0.0                          | 0.0                             | 0.0                                           | 2400.0                        | 0.0                   | 223.1                | 111.5                                            | 223.1                                          | 111.5                     |  |
| 00/OG.56 Zuschauer 1+2           | 85.0                              | 0.0                  | 0.0                  | 0.0                          | 2400.0                          | 0.0                                           | 2400.0                        | 0.0                   | 36.7                 | 18.4                                             | 36.7                                           | 18.4                      |  |
| Summe Zone                       |                                   | 2400.0               | 2400.0               | 0.0                          |                                 | 0.0                                           |                               |                       |                      |                                                  |                                                | 273.1                     |  |