

# DIN EN ISO 3382-3:2022-04 (E)

## Acoustics - Measurement of room acoustic parameters - Part 3: Open plan offices (ISO 3382-3:2022)

---

| <b>Contents</b>   | <b>Page</b> |
|---|-------------|
| <b>European foreword</b> .....  | <b>3</b>    |
| <b>Foreword</b> .....   | <b>4</b>    |
| <b>Introduction</b> .....   | <b>5</b>    |
| <b>1 Scope</b> .....  | <b>6</b>    |
| <b>2 Normative references</b> .....   | <b>6</b>    |
| <b>3 Terms and definitions</b> .....  | <b>6</b>    |
| <b>4 Measurement conditions</b> .....   | <b>8</b>    |
| 4.1 Equipment .....   | 8           |
| 4.2 Measurement procedure .....   | 8           |
| 4.2.1 Measurement conditions .....  | 8           |
| 4.2.2 Acoustic zones and measurement paths .....  | 8           |
| 4.2.3 Source and microphone positions .....   | 9           |
| 4.2.4 Measured quantities .....   | 10          |
| <b>5 Determination of single-number values</b> .....  | <b>10</b>   |
| 5.1 Spectrum of normal speech .....   | 10          |
| 5.2 Spatial decay rate of speech .....  | 10          |
| 5.2.1 Conventional method .....   | 10          |
| 5.2.2 Impulse response method .....   | 13          |
| 5.3 Speech level at 4 m distance .....  | 13          |
| 5.4 Background noise level .....  | 14          |
| 5.5 Speech transmission index .....   | 14          |
| 5.6 Comfort distance and distraction distance .....   | 15          |
| 5.7 Typical single-number values .....  | 15          |
| <b>6 Precision</b> .....  | <b>15</b>   |
| <b>7 Test report</b> .....  | <b>15</b>   |
| <b>Annex A (informative) Psychological reasoning of distraction distance</b> .....            | <b>17</b>   |
| <b>Annex B (informative) Alternative methods for determining the spatial decay rate</b> ..... | <b>18</b>   |
| <b>Annex C (informative) Examples of typical single-number values</b> .....                   | <b>20</b>   |
| <b>Annex D (informative) Precision</b> .....  | <b>21</b>   |
| <b>Bibliography</b> .....   | <b>22</b>   |