

# DIN 18041:2016-03 (E)

## Acoustic quality in rooms - Specifications and instructions for the room acoustic design

---

<b>Contents</b>	<b>Page</b>
Foreword .....	3
<b>1 Scope .....</b>	<b>5</b>
<b>2 Normative references .....</b>	<b>5</b>
<b>3 Terms and definitions.....</b>	<b>6</b>
<b>4 Requirements and recommendations .....</b>	<b>10</b>
<b>4.1 Constructional requirements.....</b>	<b>10</b>
<b>4.2 Room acoustic requirements for rooms in group A.....</b>	<b>10</b>
<b>4.3 Room acoustic recommendations for rooms in group B.....</b>	<b>14</b>
<b>5 Details for designing rooms in group A .....</b>	<b>16</b>
<b>5.1 Introduction.....</b>	<b>16</b>
<b>5.2 Volume index.....</b>	<b>16</b>
<b>5.3 Geometric room configuration .....</b>	<b>17</b>
<b>5.4 Positioning of acoustically effective surfaces.....</b>	<b>19</b>
<b>Annex A (normative) Verification of the room acoustic requirements for rooms in group A .....</b>	<b>22</b>
<b>Annex B (informative) Sound engineering requirements for good room acoustics.....</b>	<b>25</b>
<b>Annex C (informative) Speech communication .....</b>	<b>27</b>
<b>Annex D (informative) Recommendations and design instructions for rooms with sound systems .....</b>	<b>29</b>
<b>Annex E (informative) Design and commissioning of electro-acoustic sound systems for speech transmission.....</b>	<b>31</b>
<b>Annex F (informative) Measures for improving speech intelligibility for the hearing-impaired.....</b>	<b>35</b>
<b>Annex G (informative) Example absorption tables.....</b>	<b>40</b>
<b>Bibliography .....</b>	<b>44</b>