

---

---

**Acoustics — Measurement of room  
acoustic parameters —**

**Part 3:  
Open plan offices**

*Acoustique — Mesurage des paramètres acoustiques des salles —  
Partie 3: Bureaux ouverts*





**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Measurement conditions</b> .....	<b>3</b>
4.1 Equipment.....	3
4.2 Measurement procedure.....	3
4.2.1 Measurement conditions.....	3
4.2.2 Acoustic zones and measurement paths.....	3
4.2.3 Source and microphone positions.....	4
4.2.4 Measured quantities.....	5
<b>5 Determination of single-number values</b> .....	<b>5</b>
5.1 Spectrum of normal speech.....	5
5.2 Spatial decay rate of speech.....	5
5.2.1 Conventional method.....	5
5.2.2 Impulse response method.....	8
5.3 Speech level at 4 m distance.....	8
5.4 Background noise level.....	9
5.5 Speech transmission index.....	9
5.6 Comfort distance and distraction distance.....	10
5.7 Typical single-number values.....	10
<b>6 Precision</b> .....	<b>10</b>
<b>7 Test report</b> .....	<b>10</b>
<b>Annex A (informative) Psychological reasoning of distraction distance</b> .....	<b>12</b>
<b>Annex B (informative) Alternative methods for determining the spatial decay rate</b> .....	<b>13</b>
<b>Annex C (informative) Examples of typical single-number values</b> .....	<b>15</b>
<b>Annex D (informative) Precision</b> .....	<b>16</b>
<b>Bibliography</b> .....	<b>17</b>