

---

---

**Acoustics — Rating of sound insulation  
in buildings and of building elements —**

**Part 2:  
Impact sound insulation**

*Acoustique — Évaluation de l'isolement acoustique des immeubles et  
des éléments de construction —*

*Partie 2: Protection contre le bruit de choc*





**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2013

All rights reserved. Unless otherwise specified, 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  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
Foreword .....	iv
Introduction .....	v
<b>1 Scope .....</b>	<b>1</b>
<b>2 Normative references .....</b>	<b>1</b>
<b>3 Terms and definitions .....</b>	<b>2</b>
<b>4 Procedure for evaluating single-number quantities for impact sound insulation rating .....</b>	<b>3</b>
4.1 General .....	3
4.2 Reference values .....	3
4.3 Method of comparison .....	3
4.4 Statement of results .....	4
<b>5 Procedure for evaluating the weighted reduction in impact sound pressure level by floor coverings on bare heavy floors .....</b>	<b>5</b>
5.1 General .....	5
5.2 Reference floor .....	6
5.3 Calculation .....	6
5.4 Statement of results .....	7
<b>6 Procedure for evaluating the weighted reduction in impact sound pressure level by floor coverings on lightweight floors .....</b>	<b>7</b>
6.1 General .....	7
6.2 Reference curves for the reference lightweight floors used to calculate $\Delta L_{t,w}$ .....	8
6.3 Calculation .....	8
6.4 Statement of results .....	8
<b>Annex A (informative) Additional weighting procedure .....</b>	<b>9</b>
<b>Annex B (informative) Procedure for evaluating the equivalent weighted normalized impact sound pressure level of bare heavy floors .....</b>	<b>11</b>
<b>Annex C (informative) Examples of the evaluation of a single-number quantity .....</b>	<b>13</b>
<b>Bibliography .....</b>	<b>17</b>