

INTERNATIONAL  
STANDARD

ISO  
8375

Third edition  
2017-06

---

---

---

**Timber structures — Glued  
laminated timber — Test methods  
for determination of physical and  
mechanical properties**

*Structures en bois — Bois lamellé-collé — Méthodes d'essai pour la  
détermination de certaines propriétés physiques et mécaniques*



Reference number  
ISO 8375:2017(E)

© ISO 2017



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2017, Published in Switzerland

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  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
[copyright@iso.org](mailto:copyright@iso.org)  
[www.iso.org](http://www.iso.org)

## Contents

	Page
<b>Foreword</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 Symbols and suffixes</b>	<b>2</b>
4.1 Symbols	2
4.2 Suffixes	3
<b>5 Determination of dimensions of test specimens</b>	<b>3</b>
<b>6 Determination of moisture content of test specimens</b>	<b>3</b>
<b>7 Determination of density of test specimens</b>	<b>4</b>
<b>8 Conditioning of test specimens</b>	<b>4</b>
<b>9 Determination of local (shear-free) modulus of elasticity of the beam in bending</b>	<b>4</b>
9.1 Test specimen	4
9.2 Procedure	4
9.3 Expression of results	5
<b>10 Determination of global modulus of elasticity of the beam in bending</b>	<b>6</b>
10.1 Test specimen	6
10.2 Procedure	6
10.3 Expression of results	7
<b>11 Determination of shear modulus of the beam — Variable span method</b>	<b>7</b>
11.1 General	7
11.2 Test piece	8
11.3 Procedure	8
11.4 Expression of results	9
11.4.1 Determination of $K_1$ and $K_2$	9
11.4.2 Shear modulus	9
<b>12 Determination of bending strength of the beam</b>	<b>10</b>
12.1 Test specimen	10
12.2 Procedure	10
12.3 Expression of results	11
<b>13 Determination of the modulus of elasticity in tension parallel to the grain of the glued laminated timber</b>	<b>11</b>
13.1 General	11
13.2 Test specimen	11
13.3 Procedure	11
13.4 Expression of results	12
<b>14 Determination of the parallel to the grain tension strength of the glued laminated timber</b>	<b>12</b>
14.1 Test specimen	12
14.2 Procedure	12
14.3 Expression of results	12
<b>15 Determination of the modulus of elasticity in compression parallel to the grain of the glued laminated timber</b>	<b>13</b>
15.1 General	13
15.2 Test specimen	13
15.3 Procedure	13
15.4 Expression of results	13