
**Timber structures — Structural insulated
panel walls — Test methods**

*Structures en bois — Murs en panneaux isolants structurels —
Méthodes d'essai*



Reference number
ISO 22452:2011(E)

© ISO 2011

www.iso.org



COPYRIGHT PROTECTED DOCUMENT

© ISO 2011

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing 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
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols.....	3
5 Product evaluation	4
5.1 Tests applicable to panel construction.....	4
5.2 Tests applicable to wall panels.....	4
6 Structural testing.....	4
6.1 Conditioning	4
6.2 Tensile test on core material and bonding between faces and core	4
6.3 Shear test on panel assembly (short-term loading)	7
6.4 Accelerated ageing tests	9
6.5 Vertical load capacity (stiffness and strength)	10
6.6 Bending properties for SIP headers (stiffness and strength).....	14
6.7 Horizontal in-plane monotonic load racking stiffness and strength test	16
6.8 Out-of-plane bending (stiffness and strength).....	21
Annex A (informative) Testing for creep by means of ASTM C480.....	24
Bibliography.....	27