

ISO 18402:2016-09 (E)

Timber structures - Structural insulated panel roof construction - Test methods

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols	2
5	Product evaluation	4
5.1	Tests applicable to the panel construction	4
5.2	Tests applicable to roof panels	4
6	Structural testing	4
6.1	Conditioning	4
6.1.1	Standard conditioning	4
6.1.2	Alternative conditionings	4
6.2	Tensile test on the core material and bonding between faces and core	5
6.2.1	Specimen size and sampling	5
6.2.2	Conditioning	5
6.2.3	Loading method and test procedure	5
6.2.4	Reporting results	6
6.3	Shear test on panel assembly (short-term loading)	7
6.3.1	Specimen size and sampling	7
6.3.2	Loading method and test procedure	7
6.3.3	Reporting results	8
6.4	Out of plane bending (stiffness and strength test)	9
6.4.1	Panels subjected to uniform loading	9
6.4.2	Panels subjected to concentrated loads	11
6.5	In-plane (diaphragm) monotonic load racking stiffness and strength test	11
6.5.1	Test assembly	12
6.6	Creep testing	17
7	Accelerated ageing (durability) testing	17
Annex A (informative) Testing for creep by means of ASTM C480		18
Bibliography		21