0471 Thermal insulation and pliable membranes

Issue date: N/A (sample only)

Disclaimer:

- The following table is for general information only. The appropriateness of the standards and the conformity requirements are contingent on the approval authorities, with a consideration of the use of the product, the type of building, and local regulations in the jurisdiction the product will be used etc.
- The National Construction Code (NCC) may apply generic and/or application-specific requirements for constructions or product beyond those described in the referenced product standard and the table does not identify these requirements or any relevant tests or supporting laboratories.
- The current (2019) issue of the NCC is used for reference.
- This listing does not address application or installation-specific requirements in the NCC.
- This listing does not address jurisdictional requirements identified in the NCC.
- The following table identifies accredited conformity assessments and testing facilities, and their current scope of accreditation as they appear on NATA and JAS-ANZ website.
- The listing identifies the accredited facilities that can provide conformity assessments and tests to support the NCC Deemed-to-Satisfy pathways for product conformity. The conformity assessment and tests needed to support a Performance Solution as permitted in the NCC are not addressed.
- Products which align with NCC Performance Requirements or Deemed-to-Satisfy Provisions could be certified under the CodeMark Australia Product Certification Scheme. The following table identifies the JAS-ANZ accredited certification bodies that have CodeMark Australia included in their scope of accreditation at the date this document was published. For an up to date list please refer to https://www.jas-anz.org/accredited-bodies/search.
- Whilst every effort has been taken to keep the NCPR accurate and up-to-date, Construction Information Systems Limited (NATSPEC) will not be liable in respect of any use or application of its contents.

For more information see DISCLAIMER.

0471 Thermal insulation and pliable membranes

Issue date: N/A (sample only)

The following table is applicable to insulation and pliable membranes for floors, walls, ceilings and roofs. It generally relies on AS 3999, AS/NZS 4200.1, AS 4200.2 and AS/NZS 4859.1. A pliable building membrane may be installed to act as a sarking membrane, vapour barrier, thermal insulation or any combination of the three. The table does not cover insulation for services (e.g. for ductwork) or acoustic insulation.

Product Type	Conformity Requirement	NCC Volume One; NCC Volume Two	Accredited Certification Bodies	Accredited Testing Bodies
Pliable building membrane	AS/NZS 4200.1: 2017- Pliable building membranes and underlays-Materials	F1.6, F6.2, Schedule 3; 3.5.2.4, 3.5.4.2, 3.5.4.8, 3.8.7.2, Schedule 3	SAI Global StandardsMark scheme	There is no accredited testing body in Australia to specifically test to this standard. Refer NATA Testing Standard Appendices for bodies accredited for testing using the methods referenced in this standard.
Thermal insulation materials (Total R-Value)	AS/NZS 4859.1 :2018- Thermal insulation materials for buildings — General criteria and technical provisions	J1.2, J5.5, J5.8; 3.12.1.1, 3.12.1.5, 3.12.5.1, 3.12.5.2, 3.12.5.3	BSI Group (Australia and New Zealand) Pty Ltd Benchmark scheme Global-Mark Pty Ltd Product Conformance Scheme Bureau Veritas S Mark scheme CertMark International Product Certification scheme Certification Solutions International Product Assessment scheme Global-Mark Product Conformance scheme IAPMO R&T Oceana Pty Ltd Oceana Mark scheme SAI Global Standards Mark scheme	There is no accredited testing body in Australia to specifically test to this standard. Refer NATA Testing Standard Appendices for bodies accredited for testing using the methods referenced in this standard.
Thermal insulation materials (combustibility)	AS 1530.1: 1994- Methods for fire test on building materials, components and structures-Part1: Combustibility test for materials	Schedule 3; Schedule 3	The standard is not suitable for product certification.	CSR Bradford Insulation Research Laboratory Warringtonfire Australia Pty Ltd

0471 Thermal insulation and pliable membranes

Issue date: N/A (sample only)

Product Type	Conformity Requirement	NCC Volume One; NCC Volume Two	Accredited Certification Bodies	Accredited Testing Bodies
				CSIRO Fire Technology Laboratory
Insulation materials, Materials with reflective facing (fire hazard properties)	AS/NZS 1530.3:1999-Methods for fire tests on building materials, components and structures-Simultaneous determination of ignitability, flame propagation, heat release and smoke release	Schedule 3, Schedule 6; Schedule 3, Schedule 6	The standard is not suitable for product certification.	AWTA Product Testing CSIRO Fire Technology Laboratory AWTA Product Testing CSIRO Fire Technology Laboratory AUSTRALIAN TEXTILE MILLS PTY LTD Testing Department AUSTRALIAN MATERIALS TESTING LABORATORY Fletcher Insulation Pty Ltd
Exposed insulation/linings (fire hazard properties)	AS 5637.1: 2015 Determination of fire hazard properties-Wall and ceiling linings	Spec C1.10, Schedule 3; Schedule 3	The standard is not suitable for product certification.	There is no accredited testing body in Australia to specifically test to this standard. Refer NATA Testing Standard Appendices for bodies accredited for testing using the methods referenced in this standard.

0471 Thermal insulation and pliable membranes

Issue date: N/A (sample only)

Product Type	Conformity Requirement	NCC Volume One; NCC Volume Two	Accredited Certification Bodies	Accredited Testing Bodies
Glasswool insulation VOC	ASTM D5116: 2010 Standard guide for small-scale environmental chamber determinations of organic emissions from indoor materials/products	N/A; N/A	The standard is not suitable for product certification.	Foray Laboratories Pty Ltd

0471 Thermal insulation and pliable membranes

Issue date: N/A (sample only)

NATA Testing Standard Appendices

The purpose for the following section assists with identifying the accredited laboratories and standard testing requirements where an accredited testing body for the main standard can not be identified in Australia.

Notes and Limitations:

- Tests are based from reading identified standards; implicit tests are not identified. No attempt has been made to establish whether the tests are required for a grade, application or are optional. Read the product standard.
- Laboratories have been identified by a search to the "Standard-Part" level, and references to specific clauses or appendices have not be confirmed to be in the scope of accreditation
- Compliance may depend upon testing results. Merely having the test(s) performed does not automatically qualify product as compliant with the relevant product standard.
- Product standards may define grades for certain applications with products classified into grades by the testing results
    - Merely having the test(s) performed does not qualify product as meeting a nominated grade in the relevant product standard.
    - Product compliant with a grade defined in a product standard may not be compliant with other grades in the same product standard;
    - Product compliant with a grade defined in a product standard may not be compliant for use in some possible applications covered by the product standard;
    - Refer to the product standard to identify specific tests and test results required for compliance with a nominated product grade.
    - Some tests may be optional or permit additional labelling. Refer to the product standard.
    - Some Product standards identify "deemed to comply solutions" where testing is not required. Refer to the product standard.
    - Product standards may include requirements other than testing. Refer to the product standard.
- Laboratory lists are based upon the identified tests. In some instances, the product standard imposes additional requirements, and these must be disclosed to the laboratory to meet the testing requirements of the product standard.

0471 Thermal insulation and pliable membranes

Issue date: N/A (sample only)

Standard: AS 5637.1 2015 Determination of fire hazard properties - Wall and ceiling linings

Generated: 12 May 2020

Calls up the following tests.

Test	Method	Facility	Site and hyperlink
AS/NZS 3837	Heat and smoke release rate	AWTA PRODUCT TESTING	AWTA Product Testing
AS/NZS 3837	Heat and smoke release rate	CSIRO	CSIRO Fire Technology Laboratory
AS/ISO 9705	Full scale room test	WARRINGTONFIRE AUSTRALIA PTY LTD	Warringtonfire Australia Pty Ltd
ISO 5660-1	Heat release and smoke production - calirimeter and dynamic	AWTA PRODUCT TESTING	AWTA Product Testing

0471 Thermal insulation and pliable membranes

Issue date: N/A (sample only)

Standard: AS NZS 4200.1 2014 Pliable building membranes and underlays - Materials

Generated: 12 May 2020

Calls up the following tests.

Test	Method	Facility	Site and hyperlink
AS 1301.423s	Folding endurance	NIL	
AS 1301.448	Tensile strength	AWTA PRODUCT TESTING	AWTA Product Testing
AS 1530.2	Flammability	CSR BRADFORD INSULATION	CSR Bradford Insulation Research Laboratory
AS 1530.2	Flammability	AWTA PRODUCT TESTING	AWTA Product Testing
AS 1530.2	Flammability	CSIRO	Fire Technology Laboratory
AS 1530.2	Flammability	AUSTRALIAN TEXTILE MILLS PTY LTD	Testing Department
AS 1530.2	Flammability	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS 2001.2.19	Bursting strength	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS/NZS 3100	Electrical conductivity	SAFEWORK NSW / TESTSAFE AUSTRALIA	TestSafe Australia
AS/NZS 3100	Electrical conductivity	TUV RHEINLAND AUSTRALIA PTY LIMITED	Melbourne Laboratory
AS/NZS 3100	Electrical conductivity	COMTEST LABORATORIES PTY LTD	Comtest Laboratories Pty Ltd
AS/NZS 3100	Electrical conductivity	EMC TECHNOLOGIES PTY LTD	EMC Test Laboratory
AS/NZS 3100	Electrical conductivity	VIPAC ENGINEERS AND SCIENTISTS LTD	Victorian Laboratory
AS/NZS 3100	Electrical conductivity	SIMITARS	Training, Testing and Certification Centre
AS/NZS 3100	Electrical conductivity	LIGHTLAB INTERNATIONAL	Optical and Photometric Laboratory
AS 3706.4	Bursting strength	AWTA PRODUCT TESTING	AWTA Product Testing
AS 3706.4	Bursting strength	GEOSYNTHETIC TESTING SERVICES	Geosynthetic Testing Services
AS 3706.4	Bursting strength	TERRA FIRMA LABORATORIES	Pakenham Laboratory
AS 3706.4	Bursting strength	EXCELPLAS PTY LTD	ExcelPlas Pty Ltd
AS 3706.4	Bursting strength	TERRA FIRMA LABORATORIES	Perth Facility
AS 3706.4	Bursting strength	TRI AUSTRALASIA PTY LTD	TRI
AS 3706.4	Bursting strength	TOTAL GEOSYNTHETICS SOLUTIONS PTY LTD	Total Geosynthetics Solutions Pty Ltd
AS/NZS 4201.1	Dry delamination	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS/NZS 4201.2	Wet delamination	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS/NZS 4201.3	Moisture shrinkage	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS/NZS 4201.4	Water control classification	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS/NZS 4201.5	Emittance	NIL	
AS/NZS 4201.6	Water Absorbency	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS/NZS 4859.1	Corrosion resistance	CSIRO	Fire Systems Laboratory
AS/NZS 4859.1	Corrosion resistance	CSR BRADFORD INSULATION	CSR Bradford Insulation Research Laboratory
AS/NZS 4859.1	Corrosion resistance	AWTA PRODUCT TESTING	AWTA Product Testing
AS/NZS 4859.1	Corrosion resistance	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd

0471 Thermal insulation and pliable membranes

Issue date: N/A (sample only)

ASTM D1204	Heat shrinkage	NIL	
ASTM E96 procedure B	Vapour control	AWTA PRODUCT TESTING	AWTA Product Testing
ASTM E96 procedure B	Vapour control	AUSTRALIAN LABORATORY SERVICES PTY LTD	Perth Tribology Laboratory
ASTM E96 procedure B	Vapour control	XTEC GEN PTY LTD	XTecGen Laboratory
ASTM G154	UV exposure	CHEMCENTRE	ChemCentre
ASTM G154	UV exposure	CSIRO	Materials Performance Laboratory
ASTM G154	UV exposure	BLUESCOPE STEEL LIMITED	Port Kembla Laboratory
ASTM G154	UV exposure	AWTA PRODUCT TESTING	AWTA Product Testing
ISO 5636-5	Air control Classification	NIL	
TAPPI T470	Edge tear resistance	NIL	

0471 Thermal insulation and pliable membranes

Issue date: N/A (sample only)

Standard: AS NZS 4859.1 2018 Thermal insulation materials for buildings - General criteria and technical provisions

Generated: 12 May 2020

Calls up the following tests.

Test	Method	Facility	Site and hyperlink
AS 2001.6.1	Resistance to insect pests	AWTA PRODUCT TESTING	AWTA Product Testing
AS 2001.7	Quantitative analysis of fibre mixtures	AWTA PRODUCT TESTING	AWTA Product Testing
AS 2001.7	Quantitative analysis of fibre mixtures	AUSTRALIAN TEXTILE MILLS PTY LTD	Testing Department
AS 4200.1	IR Emittance	AWTA PRODUCT TESTING	AWTA Product Testing
AS 4200.1	IR Emittance	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS/NZS 4201.1	Resistance to dry delamination	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS/NZS 4201.1	Dry delamination	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS 4859.1 Appendix B	Thickness and density	CSIRO	Fire Systems Laboratory
AS 4859.1 Appendix B	Thickness and density	CSR BRADFORD INSULATION	CSR Bradford Insulation Research Laboratory
AS 4859.1 Appendix B	Thickness and density	AWTA PRODUCT TESTING	AWTA Product Testing
AS 4859.1 Appendix B	Thickness and density	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS 4859.1 Appendix C	Thermal resistance - loose fill	CSIRO	Fire Systems Laboratory
AS 4859.1 Appendix C	Thermal resistance - loose fill	CSR BRADFORD INSULATION	CSR Bradford Insulation Research Laboratory
AS 4859.1 Appendix C	Thermal resistance - loose fill	AWTA PRODUCT TESTING	AWTA Product Testing
AS 4859.1 Appendix C	Thermal resistance - loose fill	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS 4859.1 Appendix D	Corrosiveness	CSIRO	Fire Systems Laboratory
AS 4859.1 Appendix D	Corrosiveness	CSR BRADFORD INSULATION	CSR Bradford Insulation Research Laboratory
AS 4859.1 Appendix D	Corrosiveness	AWTA PRODUCT TESTING	AWTA Product Testing
AS 4859.1 Appendix D	Corrosiveness	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
AS 4859.1 Appendix E	Surface corrosion / wet delamination	CSIRO	Fire Systems Laboratory
AS 4859.1 Appendix E	Surface corrosion / wet delamination	CSR BRADFORD INSULATION	CSR Bradford Insulation Research Laboratory
AS 4859.1 Appendix E	Surface corrosion / wet delamination	AWTA PRODUCT TESTING	AWTA Product Testing
AS 4859.1 Appendix E	Surface corrosion / wet delamination	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
ASTM C1363	Thermal resistance	NIL	
ASTM C1667	Thermal tranmission - vacuum panels	NIL	
ASTM C167	Thickness and density	CSR BRADFORD INSULATION	CSR Bradford Insulation Research Laboratory
ASTM C167	Thickness and density	AWTA PRODUCT TESTING	AWTA Product Testing
ASTM C177	Thermal resistance	NIL	
ASTM C335	Heat transfer properties	NIL	
ASTM C518	Thermal resistance	CSIRO	Fire Systems Laboratory
ASTM C518	Thermal resistance	CSR BRADFORD INSULATION	CSR Bradford Insulation Research Laboratory
ASTM C518	Thermal resistance	AWTA PRODUCT TESTING	AWTA Product Testing
ASTM C518	Thermal resistance	AUSTRALIAN MATERIALS TESTING LABORATORY	Fletcher Insulation Pty Ltd
ASTM C687	Thermal resistance - loose fill	CSIRO	Fire Systems Laboratory
ASTM C739	Moisture absorbtion	NIL	
EN 12667	Thermal resistance	NIL	
EN 12939	Thermal resistance	NIL	
ISO 8301	Thermal resistance	NIL	
ISO 8302	Thermal resistance	NIL	
ISO 8990	Thermal resistance	NIL	