

# CERTIFICATE OF CONFORMITY

This is to certify that  
**Icynene LD-C-50™**





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| Product description   |  |                     |
|---|--|---------------------|
| Icynene LD-C-50™ is a polyurethane micro-cellular plastic foam insulation, which is sprayed onto a wall or into a wall cavity to form an insulation system.             |  |                     |
| Product purpose or use  |  |                     |
| Thermal insulation for use in walls, ceiling or floors. (assessed based on ASTM C518, referenced in AS/NZS 4859.1:2002 including Amendment 1)                           |  |                     |
| Table: 1 - Thermal Resistance   |  |                     |
| Thickness, in mm  | Thermal Resistance, in m <sup>2</sup> .K/W | Equivalent R rating |
| 25  | 0.65                                       | 0.65                |
| 50  | 1.30                                       | 1.30                |
| 75  | 1.95                                       | 1.95                |
| 100   | 2.60                                       | 2.60                |
| 125   | 3.15                                       | 3.15                |
| 150   | 3.90                                       | 3.90                |
| 175   | 4.55                                       | 4.55                |
| 200   | 5.20                                       | 5.20                |
| Certificate holder  |  |                     |
| <b>Icynene Inc</b><br>6747 Campobello Road, Mississauga, Ontario L5N2I7, Canada Tel: + 1-905-363-4040<br>Web site: <a href="http://www.icynene.com">www.icynene.com</a> |  |                     |



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|   |   |  |                   |                   |                   |                         |
|---|---|--|-------------------|-------------------|-------------------|-------------------------|
| <b>CodeMark Certification Body</b>  |  |  | <u>13/05/2010</u> | <u>15/08/2013</u> | <u>26/07/2016</u> | <u>GM-CM30009 Rev D</u> |
| Global-Mark Pty Ltd, Suite 4.07, 32 Delhi Road, North Ryde NSW 2113, Australia - <a href="http://www.Global-Mark.com.au">www.Global-Mark.com.au</a> | Herve Michoux<br>Managing Director  | Unrestricted Building Certifier, Peter Gardner                                       | Date of issue     | Last update       | Date of expiry    | Certificate Number      |

This Certificate of Conformity is issued by an accredited certification body under arrangement with JAS-ANZ. The ABCB does not in any way warrant, guarantee or represent that the Product the subject of this Certificate of Conformity conforms with the BCA, nor accepts any liability arising out of the use of the Product. The ABCB disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this Certificate.

It is advised to check that this Certificate of Conformity is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the ABCB website, [www.abcb.gov.au](http://www.abcb.gov.au)

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**Complies with the Building Code of Australia 2013:**

1. Volume One JP1 in respect of energy efficiency of walls, ceilings and floors, in applications where complying thermal resistances have been determined using the values in Table 1;
2. Volume Two P2.6.1 in respect of energy efficiency of walls, ceilings and floors, in applications where complying thermal resistances have been determined using the values in Table 1

**State Additions:**

Volume Two – Victoria P2.6.1.

The product will contribute to compliance when installed in accordance with:

- Volume One Clauses J1.2, (a), (c) and (d), J1.3, SA J1.3, J 1.5 and J1.6; and
- Volume Two Clauses 3.12.1.1(a) and (c), 3.12.1.2, 3.12.1.4 and 3.12.1.5.

**Subject to the following conditions and limitations:**

1. BCA Volume One J1.2(b) and BCA Volume Two 3.12.1.1 (b) do not apply.
2. The thermal resistances in Table 1 are of the Icynene semi-rigid polyurethane foam insulation alone (i.e. corresponding to “added insulation” as used in the BCA). The total thermal resistance of a wall, floor or ceiling system is the sum of values for the external air film (0.04), external cladding, air space or cavity (if applicable), Icynene insulation (from Table 1), internal cladding, and internal air space (0.12).
3. The calculated values do not account for thermal bridging at studs and the like.
4. The calculated values are based on the calculated upper 10 percentile characteristic value for thermal conductivity of 0.038 W/m.K.
6. The reported thermal resistances are based on a mean temperature of was 24 °C, and a temperature differential of 22 °C.
7. These values may be used, in conjunction with the thermal properties of other components, to satisfy:
  - Performance requirement BCA Volume One JP1, using verification method JV3.
  - Performance requirement BCA Volume Two P2.6.1 using verification method V2.6.2.2.
  - Deemed-to-Satisfy provisions BCA Volume One J1.3 and SA J1.3, using Tables J1.3a; BCA Volume One J1.5, using Tables J1.5a and J1.5b; and, BCA Volume One J1.6, using Table J1.6.
  - Deemed-to-Satisfy provisions BCA Volume Two 3.12.1.2 using Table 3.12.1.1a; BCA Volume Two 3.12.1.4, using Tables 3.12.1.3a and 3.12.1.3b; and, 3.12.1.5, using Table 3.12.1.4.
8. Product installation shall be carried out by a person trained and approved by Icynene as an Approved Installer, in accordance with the Icynene Installer Australia New Zealand review November 2009, and in accordance with AS3999:1992 (including Amendment 1).
9. This Certificate excludes compliance with:
  - BCA Volume One Section C: compliance for non-combustibility, fire hazard properties when used as a wall or ceiling lining, fire hazard properties when used as a composite member (e.g. insulation within a wall), fire hazard properties generally and regarding fire resistance or fire resistance level.
  - BCA Volume Two Part 3.7 for non-combustibility and regarding fire resistance or fire resistance level.
  - BCA Volume One Section Part G5 and BCA Volume Two P2.3.4 and P2.3.5 regarding bushfire areas.
  - Vermin proofing.
  - Condensation control.
10. Where Icynene is installed, electrical installation must comply with AS/NZS 3000:2007
11. This Certification is valid for the determination of thermal resistance of wall in accordance with BCA 2013 and in those States and Territories where there are variations to the BCA 2013

**End of document**

