MEMO



| То | Chair Sydney Central East Planning Panel | сс | |
|------|--|---------|-----------------------|
| From | Lincoln Lawler, Senior Development Assessment Planner | | |
| Date | 1 February 2019 | File No | DA 13/271/042017/1126 |

Re: 27 Church Ave, Mascot -

Background

A request was made by the panel on 21 January 2019, outlining that Council is satisfied that the cladding panels are safe (in the sense of being fire-resistant).

The list of materials includes a cladding material by James Hardie Australia Pty Ltd named Scyon.

The applicant has provided the Codemark testing report of the material which indicates that the combustibility of both Scyon Axon and Easy lap are "suitable where non-combustible materials are required in accordance with C1.99E)(iv) of the BCA."

It is noted that Council, has no control over what is actually installed on the building site and it is the role of the certifier to ensure relevant compliance.

Recommendations

Council has now included the codemark testing as a reference document within Condition 1.

Regards Lincoln Lawler Senior Development Assessment Planner



| | | | | | | Ce | ertificate nun | nber: CM40222 | Rev1 |
|--|--|------------------------|---|-------------|-------------------------|-----------------|---------------------|----------------------|-----------------|
| Certification Body: | THIS TO CERTIFY THAT | | | | | | | | |
| | Easylap™ Panel External Cladding, Scyon™ Axon™ Cladding | | | | | | | | |
| ABN: 80 111 217 568 JAS-ANZ Accreditation No. | Type and/or use of product: | | | Description | of product: | | | | |
| Z4450210AK PO Box 7144 Sinpy Downs | Intended as external cladding on r | esidential and | commercial facades. | Fibre-ceme | nt cladding with | n vertical ship | lap joint. | | |
| Qld 4556 +61 (07) 5445 2199 | | CO | MPLIES WITH THE FOLLOWING BCA PRO | | D STATE OR TER | | IATION(S) | BCA 201 | 5 |
| www.CertMark.org | | Volume One | e (Amdt. 1) | | Volume Two | | | | |
| Certificate Holder: | Performance Requirement(s) | BP1.1(b)(i) & (iii) | Structural reliability – Permanent and wi | nd actions | P2.1.1(b)(i) & (iii) | Structural re | eliability – Permar | nent and wind action | 5 |
| | | FP1.4 | Weatherproofing - External walls | | P2.2.2 | Weatherpro | ofing – External | | |
| James Hardie Australia | Deemed-to-Satisfy Provision(s): | C1.9(e)(iv) | Non-combustible materials | | 3.5.3.3(a)(c) | Wall claddin | ng boards – Fibre d | cement | |
| Pty Ltd | | G5.2 | Construction in bushfire prone areas (BA | L Low-40) | 3.5.3.4(a)(i) | Sheet wall c | ladding | | |
| 10 Colquhoun St, Rosehill | | | | | Part 3.7.4 | Bushfire are | eas (BAL Low-40) | | |
| NSW 2142 | | | | | 3.5.3.5(a) | Eaves and se | offit linings | | |
| www.jamesnardie.com.au | State or territory variation(s): | NSW, SA G5 | .2 SA G5.3 | | Not Applicabl | e | | | |
| | SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B | | | | | | | | |
| | Limitations and conditions: | | | | | | | Building classificat | ion/s: |
| | Easylap™ Panel External Cladding must only to be installed in accordance with the EasyLap™ Panel External Cladding Installation guide Australia October 2018. Scyon™ Axon™ Cladding must only to be installed in accordance with the Scyon™ Axon™ Cladding Installation guide Australia October 2018. Information contained herein or related hereto is intended only for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder. The system must be designed by a project engineer to ensure the product is appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this certification. It is the responsibility of the builder to ensure the product meets aesthetic requirements prior to | | | | | | | | |
| 26than | installation. | E | P- | | Date | of issue: | 24/09/2018 | ۲ | JAS-AN7 |
| John Thorpe CMI | | Don | Grehan – Unrestricted Building Certif | ier | Date | of expiry: | 20/08/2021 | ABCB | WWW.US-ANZ COST |



- 5. Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.
- 6. This Certificate is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate is outside of this document's scope and the installation of the certified product/system will not be covered by this CodeMark certification. This may result in the product being classified as a non-conforming building product/system.

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim 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.



APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

EasyLap[™] panel & Scyon[™] Axon[™] External Cladding panels are used as an external wall cladding in alterations and additions and residential single and medium density dwellings where a uniform, broadwall cladding is required. Ideal for full wrap or composite construction design on either timber or steel framed homes.

A2 Description of product

Easylap™

EasyLap[™] panels are pre-primed sheet with a ship lap edge joint along the two long edges. Sheet weighs approximately 12kg/m² in equilibrium.

Specifications

| - | | |
|----------------|----------|--------------------|
| EasyLap™ Panel | Part no. | Product sizes (mm) |
| | 404186 | 3000 x 900 x 8.5 |
| | 404184 | 2440 x 1200 x 8.5 |
| | 404185 | 3000 x 1200 x 8.5 |
| | 404980 | 3600 x 1200 x 8.5 |
| | | |

Note: All dimensions and masses are approximate and subject to manufacturing tolerances.

Scyon™ Axon™

Scyon[™] Axon[™] panels are pre-primed with vertical grooves. There is a ship lap edge joint along the two long edges and square edges along the short edges. The grooves are nominally 2mm deep and 10mm wide. Sheet weighs approximately 12kg/m² in equilibrium.

Specifications

| Product | Length (mm) | Width (mm) | Thickness (mm) | Mass (kg) | Sheets per pack | Product Code |
|-----------------------|-------------|------------|----------------|-----------|-----------------|--------------|
| Scyon™ Axon™ cladding | 2450 | 1200 | 9 | 36 | 30 | 403931 |
| 133 Smooth | 2750 | 1200 | 9 | 40 | 30 | 403932 |
| | 3000 | 1200 | 9 | 44 | 30 | 403933 |
| | 3600 | 1200 | 9 | 30 | 30 | 404979 |
| Scyon™ Axon™ cladding | 2450 | 1200 | 9 | 36 | 30 | 404510 |
| 133 Grained | 2750 | 1200 | 9 | 40 | 30 | 404511 |
| | 3000 | 1200 | 9 | 44 | 30 | 404512 |
| Scyon™ Axon™ cladding | 2450 | 1200 | 9 | 36 | 30 | 404417 |
| 400 Smooth | 2750 | 1200 | 9 | 40 | 30 | 404418 |
| | 3000 | 1200 | 9 | 44 | 30 | 404419 |

Note: All dimensions and masses are approximate and subject to manufacturing tolerances.



A3 Product specification

| Material | The basi to Austr EasyLap | sic composition is Portland cement, ground sand, cellulose fibre and water. James Hardie building products are manufactured cralian/New Zealand Standard AS/NZS 2908.2:2000 'Cellulose-cement products-Flat sheet.' p™ & Scyon™ Axon™ External cladding panels are classified Type A, Category 3 in accordance with AS/NZS 2908.2:2000 | | | | |
|--|---------------------------------|--|-------------------------------------|---------------------------|--|--|
| Resistance to fire | EasyLap C1.9(e)(| [™] & Scyon [™] Axon [™] External cladding panels are suitable where non-combustible materials are required in accordance with iv) of the Building Code of Australia. | | | | |
| EasyLap™ | | | | | | |
| Physical Property | | Saturated Condition | Equilibrium Condition 23ºC – 50% RH | Standard | | |
| Minimum Bending Streng | gth | >7.0 Mpa | | AS/NZS 2908.2:2000 | | |
| Category | | 3 | | | | |
| Туре | | A | | | | |
| Average Density in kg/m ³ Drv) | (Oven | 1330 | | AS/NZS 2908.2:2000 | | |
| Watertightness | | Watertightness Passes AS/NZS 2908.2:2000 | Passes | AS/NZS 2908.2:2000 | | |
| Dimensional Conformanc | e | | Passes | AS/NZS 2908.2:2000 | | |
| Heat-Rain Durability | | | | | | |
| Warm Water Resistance | | - _ | | | | |
| Freeze-Thaw Resistance | | Passes | AS/NZS 2908.2:2000 | | | |
| Soak-Dry | | - | | | | |
| Combustibility | | Suitable where non-combustible materials ar C1.9(e)(iv) of the BCA | Deemed to comply with BCA | | | |
| Scyon™ Axon™ | | | | | | |
| Physical Property | | Saturated Condition | Equilibrium Condition 23ºC – 50% RH | Standard | | |
| Minimum Bending Streng | gth | >7.0 Mpa | | AS/NZS 2908.2:2000 | | |
| Category | | 3 | | | | |
| Туре | | Α | | | | |
| Average Density in kg/m ³ | (Oven | 1180 | | ISO 8336:2009 | | |
| Dry) | | | | | | |
| Watertightness | | Watertightness Passes AS/NZS 2908.2:2000 | Passes | AS/NZS 2908.2:2000 | | |
| Dimensional Conformanc | e | | Passes | ISO 8336:2009 | | |
| Heat-Rain Durability | | | | | | |
| Warm Water Resistance | | - | | | | |
| Freeze-Thaw Resistance | | Passes | AS/NZS 2908.2:2000 | | | |
| Soak-Dry | | - | | | | |
| Combustibility | | Suitable where non-combustible materials ar C1.9(e)(iv) of the BCA | e required in accordance with | Deemed to comply with BCA | | |

Certificate number: CM40222 Rev1



A4 Manufacturer and manufacturing plant(s)

| James Hardie Australia |
|------------------------|
| Cobalt Street, |
| Carole Park Qld 4300 |
| Australia |

A5 Installation requirements

EasyLap[™] Cladding Panels must only to be installed in accordance with the EasyLap[™] Panel External Cladding Installation guide Australia October 2018.

Scyon[™] Axon[™] Cladding Panels must only to be installed in accordance with the Scyon[™] Axon[™] Cladding Installation guide Australia October 2018.

A suitable weather barrier must be installed behind EasyLap[™] and Scyon[™] Axon[™] cladding in accordance with the relevant requirements of the BCA and the AS/NZS 4200.2:2017 Pliable building membranes and underlays – Installation. James Hardie recommends HardieWrap[™] Weather Barrier – refer to the building designer, certifier, or other relevant expert, for suitability.

A6 Other relevant technical data

Thermal

The EasyLap[™] & Scyon[™] Axon[™] External cladding panels will contribute to the overall thermal performance of the building; however, it is the responsibility of the building designer to ensure the minimum thermal requirements for the building envelope is achieved.

EasyLap[™] Fire

Testing has been conducted by CSIRO on the James Hardie Cladding materials in accordance with AS/NZS 3837:1998 and are classified as conforming to Group 1 material. (Average Specific Extinction Area 17.7m²/Kg). Testing has been undertaken in accordance with AS 1530.3:1999, results achieved as follows:

| Ignitability Index (0-20) | 0 |
|------------------------------|-----|
| Spread of Flame Index (0-10) | 0 |
| Heat Evolved Index (0-10) | 0 |
| Smoke Developed Index (0-10) | 0-1 |

Scyon™ Axon™ Fire

Testing has been conducted by CSIRO on the James Hardie Cladding materials in accordance with AS/NZS 3837:1998 and are classified as conforming to Group 1 material. (Average Specific Extinction Area 10.4m²/Kg).

For further details on other relevant technical data, contact the Certificate Holder.



APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

- a. Characteristic Type Testing A2.2(a)(iv) and 1.2.2(a)(i). Reports from accredited test laboratories.
- b. Bushfire Assessment A2.2(a)(v) and 1.2.2(a)(iii). Reports from a Qualified Professional Engineer.
- c. Weatherproofing Assessment A2.2(a)(iv) and 1.2.2(a)(i). Reports from accredited test laboratories.
- d. Structural Assessment A2.2(a)(v) and 1.2.2(a)(iii). Reports from a Qualified Professional Engineer.

B2 Reports

- a. James Hardie; NATA Accreditation No. 14220; Compliance Certificate EasyLap™ Panel AS 2908.2-1992 Characteristic Type Tests required by AS/NZS 2908.2:2000 and ISO 8336; Dated May 2017.
- **b.** James Hardie NATA Accreditation No. 14220; Compliance Certificate Scyon[™] Axon[™] Cladding; Product complies with AS 2908.2:2000 Products Part 2: Flat Sheets'; Dated July 2015.
- c. James Hardie NATA Accreditation No. 14220; Weatherproofing Report TS035-17; Weatherproofing NCC compliance report for EasyLap[™]; Dated 16/04/2018.
- d. Ignis solutions; Evaluation No. IGNS-6090-01 Issue 01 Revision 00[2018]; Bushfire compliance BAL low to 40; Dated 31/03/2018.
- e. David Beneke Consulting; Report 2019-12-LO-05; Structural compliance BCA Vol 1; Dated 17/08/2018.
- f. David Beneke Consulting; Report 2019-12-LO-09; Structural compliance BCA Vol 2; Dated 04/09/2018.
- g. Cardno (NSW/ACT) Pty Ltd; Report 605726-LO-07-2; Certification of Easylap™ fastener and span tables; Dated 30/09/2016.
- h. Cardno (NSW/ACT) Pty Ltd; Report 605726-LO-14-2; Certification of Scyon™ Axon™ fastener and span tables; Dated 22/09/2016.

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.