

Mardi Christian

From: Joshua Hagenson <josh@bmplusg.com.au>
Sent: Friday, 5 November 2021 3:29 PM
To: 'Eddie Abramian'
Cc: Mardi Christian; Brian Maguire
Subject: RE: SSD-9579147 Pendle Hill High School - B4 External Walls and Cladding

Eddie & Mardi,

Confirming acceptance of this documentation as it relates to Condition B4.

Thanks,

Josh Hagenson



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From: Eddie Abramian <eddiea@taylorau.com.au>
Sent: Friday, 5 November 2021 1:49 PM
To: Joshua Hagenson <josh@bmplusg.com.au>
Cc: Mardi Christian <Mardi.Christian@tsamgt.com>; Brian Maguire <brian@bmplusg.com.au>
Subject: SSD-9579147 Pendle Hill High School - B4 External Walls and Cladding

Hi Joshua,

Please see below/attached revised B4 submission for your approval. If you could kindly review and respond via email that you accept the submission.

Kind Regards,

Eddie Abramian
Project Manager

TAYLOR

We acknowledge the traditional Aboriginal and Torres Strait Islander custodians of this land. We pay our respects to Elders past, present and emerging.



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From: Greg Isaac <gregi@fultontrotter.com.au>

Sent: Friday, 5 November 2021 1:39 PM

To: Eddie Abramian <eddiea@taylorau.com.au>

Cc: Ashhar Khan <ashhark@fultontrotter.com.au>; Andrew Parish <andrewp@fultontrotter.com.au>; Ash Zeinolabedin <ashz@taylorau.com.au>; Simon Chow <simonc@taylorau.com.au>; Andrew Parish <andrewp@fultontrotter.com.au>; John Ward <johnw@fultontrotter.com.au>

Subject: RE: Pendle Hill High School - Crown Certificate Documentation

Hello Eddie,

Item B4 information is attached.

All attachments are attached, but 3, 4, 5, and 6 have been updated.

Regards
Greg Isaac
Director

Fulton Trotter Architects

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Nominated Responsible Architects + Directors of Fulton Trotter Architects: Greg Isaac RAIA QLD 2920 NSW 6855 | Justine Ebzery FRAIA QLD 3313 | John Ward RAIA QLD 3847 NSW 8371 VIC 18804 | Katerina Dracopoulos FRAIA QLD 4529 NSW 7434 | Mark Trotter LFRAIA QLD 1870 NSW 4421 VIC 17691 | Paul Sekava RAIA QLD 3108 NSW 7180 | Paul Trotter FRAIA QLD 2646 NSW 7177 | Ryan Loveday FRAIA QLD 4500 NSW 10392 [Click here for our email privacy statement.](#)

From: Eddie Abramian <eddiea@taylorau.com.au>

Sent: Thursday, 4 November 2021 3:15 PM

To: Greg Isaac <gregi@fultontrotter.com.au>

Cc: Ashhar Khan <ashhark@fultontrotter.com.au>; Andrew Parish <andrewp@fultontrotter.com.au>; Ash Zeinolabedin <ashz@taylorau.com.au>; Simon Chow <simonc@taylorau.com.au>

Subject: FW: Pendle Hill High School - Crown Certificate Documentation

Hi Greg,

Can you please start working on the below/attached in order for our Crown Certificate to be issued, in particular items:

SSD CONDITION	REQUIREMENT
B4	Prior to the commencement of construction, provide a copy of the completed external wall design disclosure statement (refer to the attached proforma) along with accompanying AS 1530 Test Reports as evidence that the materials which are attached to and forming the external walls are non-combustible or comply with Clause C1.9(e) of the BCA. Provide evidence of submission of the documentation to the Planning Secretary within seven days after BMG accepts it. 04/11/21 – There are various options identified for the proposed sarking type material. Each of the supporting documentation for the products makes reference to a previous edition of the BCA and/or contains only part of the information required to verify that the total thickness of the product is less than 1mm and has a spread of flame less than 5. Once the sarking material is selected the alternative options should be removed. Also, the statement is to reference BCA 2019 <u>Amendment 1</u> The FP1.4 Performance Solution should identify the wind region which their assessment was based. Noting that the test documentation & and manufacture data sheets refer to previous editions of the BCA it should be confirmed that they comply with the newly adopted standard for sarking being AS4200.1 & 2 <u>2017</u>. <u>Note:</u> Also refer to CC item 11
9.	Architectural Specification. Note the standards referenced specification are to include years e.g., AS 3600 would be referenced as AS3600-2018 04/11/21 – Under review – Initial review indicates that many of the Australian standards are not referenced with the relevant year such as AS3600.
11.	Provide a Performance Solution Report and supporting documentation which demonstrates that the proposed roof and external walls (including openings around windows and doors) of the building prevents water penetration that could cause: a) Unhealthy or dangerous conditions, or loss of amenity for occupants; and b) Undue dampness or deterioration of building elements.

	The Performance Solution is to be documented in a format consistent with that required by the BCA (proforma provided to assist with this process) and is to verify compliance by using one or more of the following methods: - Verification Methods detailed in BCA Verification Method FV1; and/or - Other verification methods deemed acceptable by the Certifier; and/or - Evidence to support that the use of the material or product, form of construction or design meets the Performance Requirements or the DTS provisions - Expert Judgement. The FP1.4 Performance Solution should identify the wind region which their assessment was based and further discussion on how compliance is achieved (refer to the covering email). Noting that the test documentation & and manufacture data sheets refer to previous editions of the BCA it should be confirmed that they comply with the newly adopted standard for sarking being AS4200.1 & 2 2017. Also, a Performance Based Design Brief (as required by BCA clause A2.2(4)) for each Performance Solution is required and needs to be circulated to the project team (as stakeholders) for review and comment prior to the Performance Solution being finalised.
12.	Provide a statement and accompanying documentation which verifies that that the external walls of the building including all components incorporated in them inclusive of the facade covering, framing, sarking and insulation walls will be non-combustible or comply with the concessions under Clause C1.9 of the BCA. Note: Clause C1.9(e) permits the below listed materials to be used wherever non-combustible materials are required. Where proposed, these still need to be listed in the schedule. + Plasterboard. + Perforated gypsum lath with a normal paper finish. + Fibrous-plaster sheet. + Fibre-reinforced cement sheeting. + Pre-finished metal sheeting having a combustible surface finish not exceeding 1 mm thickness and where the Spread-of-Flame Index of the product is not greater than 0. 04/11/21 - There are various options identified for the proposed sarking type material. Each of the supporting documentation for the products makes reference to a previous edition of the BCA and/or contains only part of the information required to verify that the total thickness of the product is less than 1mm and has a spread of flame less than 5. Once the sarking material is selected the alternative options should be removed.
ACCESS FOR PEOPLE WITH DISABILITIES	
27.	An Access Report confirming that the Crown Certificate drawings demonstrate compliance with the access requirements of the BCA and the Disability (Access to Premises – Buildings) Standards. 04/11/21 – The access report prepared by MGAC appears to identify aspects of the design that are required to be amended to confirm with the relevant requirements. An updated report with the items requiring design amendments closed or otherwise a statement from the architect confirming that the items contained within the report have been captured in updated drawings since.

Kind Regards,

From: Joshua Hagenson <josh@bmplusg.com.au>

Sent: Thursday, 4 November 2021 2:21 PM

To: Eddie Abramian <eddiea@taylorau.com.au>

Cc: Simon Chow <simonc@taylorau.com.au>; Ash Zeinolabedin <ashz@taylorau.com.au>; Joseph Boutros <josephb@taylorau.com.au>; George Boutros <georgeb@taylorau.com.au>; Philippa Walker <philippa@bmplusg.com.au>; Brian Maguire <brian@bmplusg.com.au>

Subject: RE: Pendle Hill High School - Crown Certificate Documentation

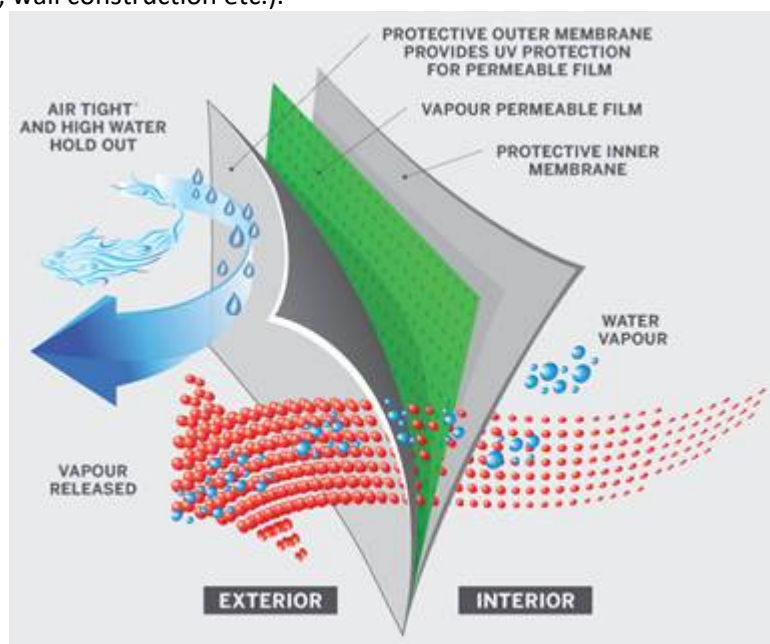
Hi Eddie, thanks you for the well formatted submission.

Please find attached our updated Crown Certificate requirements list identifying the items that require further attention, you will note that may require quite strait forward amendments or additional information.

Further to CC item 11 (FP1.4 performance solution) please refer to the below information to help inform the additional discussion requested to be introduced into the report –

Key issues to discuss and consider within the report are as follows:

1. Wind region in which the site is located,
2. Design of wall junctions i.e. are these protected and to what degree?
3. Complexity of building envelope and the impact of this in terms of weather exposure -particularly junctions susceptible to moisture penetration
4. Enclosing roof overhands i.e. decks, porte-cochères, awnings etc.
5. Wall types and in particular the selected sarking in terms of compliance with AS/NZS 4200.1 Parts 1 and 2 - 2017 (resistance to wet and dry delamination respectively) i.e. dory rating, vapour barrier classification, water barrier classification etc. The discussion should consider how the external wall assembly as a whole will largely prevent wind driven rain and the like from reaching the sarking/penetrating the wall cavity and how the portion of water/moisture which does penetrate the cavity is able to escape (discuss the vapour permeability of the sarking, wall construction etc.).



6. Weatherproofing of penetrations including windows, louvres/vents, doors etc. and/or implementation of measures designed to mitigate against water ingress, including:
 - a. Flashing to openings with lapping generally in accordance with Clause 3.5.3.6 of BCA Volume 2 (not a direct requirement, but provides good guidance in the absence of specific requirements in Volume 1)
 - b. Glazing complying with AS2047 including, sealing to all junctions and lapped glass where permeant vent windows are proposed
 - c. The use of strip drains at doorways to allow for seamless thresholds for accessibility whilst preventing water ingress (see figure below from AS 4564.2-2012, whilst not an adopted standard under the BCA, provides good guidance on weatherproofing at level door thresholds. Alternatively, where a canopy or roof overhang is proposed and provides a degree of weatherproofing, consideration may be given to a 35mm high threshold ramp (complying with AS 1428.1-2009) at the doorway together with a 1:40 fall away from the door to assist with shedding water

AS 4564.2—2012

20

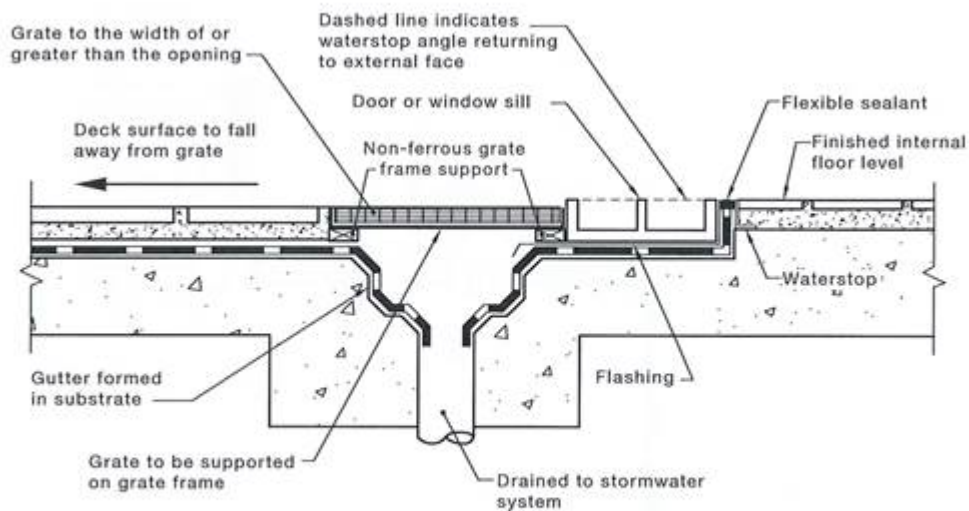


FIGURE 2.9 TYPICAL DETAILS OF MEMBRANE TERMINATION AT WALL OPENINGS WHERE THE INTERNAL AND EXTERNAL FINISHED FLOOR LEVELS DO NOT ALLOW FOR AN UPTURN

Note, the above is not an exhaustive list of requirements or considerations in preparing the Performance Solution Report, but hopefully it should assist with getting the ball rolling. Feel free to call if there are any queries or I can be of assistance with this item.

We can discuss further during the meeting later today.

Josh Hagenson



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From: Eddie Abramian <eddiea@taylorau.com.au>

Sent: Friday, 29 October 2021 4:56 PM

To: Joshua Hagenson <josh@bmplusg.com.au>; Camilo Ospina <camilo@bmplusg.com.au>; Brian Maguire <brian@bmplusg.com.au>

Cc: Simon Chow <simonc@taylorau.com.au>; Ash Zeinolabedin <ashz@taylorau.com.au>; Joseph Boutros <josephb@taylorau.com.au>; George Boutros <georgeb@taylorau.com.au>

Subject: Pendle Hill High School - Crown Certificate Documentation

Dear team BMG,

Hope all is well.

Please find below link for the initial issue of Crown Certificate documentation for the main build (Block H) at Pendle Hill High School.

 [SSD & Crown Cert Documentation](#)

Should you have any issue obtaining access to the link please let me know. I hope to have the balance of the remaining documents completed and uploaded into the folder by mid/late next week.

Have a good weekend.

Kind Regards,

Eddie Abramian

Project Manager

TAYLOR

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We acknowledge the traditional Aboriginal and Torres Strait Islander custodians of this land. We pay our respects to Elders past, present and emerging.



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