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**100 Eton Road, Lindfield NSW**

LINDFIELD LEARNING VILLAGE

**ROOF & FAÇADE BUSHFIRE MEASURES CONFORMANCE REPORT**

REPORT 2018/321 R3.4

## REVISION CONTROL

Report No.	Issue Date	Report Details	
2018/321 R3.4	08/03/2019	Description:	<u>Revision 4:</u> Report updated to include the Auditorium and its associated auxiliary areas including Plant Room.
		Prepared by:	Andrew Sung (Fire Safety Engineer) 
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		Verified, Approved and Issued by:	Carlos Quaglia (Managing Director, C10 - BPB0334) 
2018/321 R3.3	19/02/2019	Description:	<u>Revision 3:</u> Report updated to include the Zone E Music Rooms.
2018/321 R3.2	14/02/2019	Description:	<u>Revision 2:</u> Report updated following the completion of outstanding items for Zone A.
2018/321 R3.1	12/02/2019	Description:	<u>Revision 1:</u> Report updated to include Zone A inspection.
2018/321 R3.0	25/01/2019	Description:	Original Report

## **EXECUTIVE SUMMARY**

This report was prepared by Stephen Grubits & Associates (SGA) at the request of Design Inc., Australia and assesses the Bushfire Compliance Strategy for Stage 1 of Linfield Learning Village, located at 100 Eton Road, Lindfield NSW. The strategy has been assessed with respect to the implementation of the bushfire safety measures in the following report:

- SGA Report 2018/321 R1.2 dated 25 January 2019.

The inspection of the area and the information examined indicated that the building work relating to the Bushfire Compliance Report has been completed in the order shown below. The completed work is generally consistent with the specific parameters required by SGA Report 2018/321 R1.2 dated 25 January 2019, and is expected to comply with the BAL-FZ requirements of AS 3959-2009:

1. Zone B-G: Work in the remainder of the Stage 1 school that was not complete at the time of the last inspection for Zone B-G (Friday 25<sup>th</sup> January) was subsequently confirmed as complete in writing and certificates provided.
2. Zone A: The work that was unfinished at the time of the last inspection for Zone A (Tuesday 12<sup>th</sup> February) was subsequently confirmed as complete through photographic evidence provided.
3. Zone E Music Rooms: The work that was unfinished at the time of the last inspection for Zone E Music Rooms (18<sup>th</sup> February 2019) was subsequently confirmed as complete through photographic evidence provided.

**However, the work that was unfinished at the time of the last inspection for Auditorium and associated auxiliary areas including the Plant Room (8<sup>th</sup> March 2019) is subject to completion and requires photographic evidence for confirmation of finished work.**

Refer to Table 1 for the progress of the various Zones for Stage 1 of the project .

Zone(s)	Date				
	25/01/2019	12/02/2019	14/02/2019	19/02/2019	08/03/2019
<b>A</b>	Not Complete	Complete, <b>subject to some outstanding items awaiting confirmation of completion.</b>	Complete	Complete	Complete
<b>B-G</b> (excluding Auditorium and Music Rooms)	Complete	Complete	Complete	Complete	Complete
<b>Zone E Music Rooms</b>	Not Complete	Not Complete	Not Complete	Complete	Complete

<b>Auditorium and associated auxiliary areas including Plant Room</b>	Not Complete	Not Complete	Not Complete	Not Complete	<b>Complete, subject to some outstanding items awaiting confirmation of completion. Refer to Section 5.10 for details.</b>
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**Table 1 – Stage 1 progress update**

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## 1. INTRODUCTION

This report was prepared by Stephen Grubits & Associates (SGA) at the request of Design Inc., Australia and assesses the Bushfire Compliance Strategy for Stage 1 of Linfield Learning Village, located at 100 Eton Road, Lindfield NSW. The strategy has been assessed with respect to the implementation of the bushfire safety measures in the following report:

- SGA Report 2018/321 R1.2 dated 25 January 2019.

## 2. PURPOSE

The purpose of this report is to confirm that the building work relating to the bushfire safety measures has been completed and is consistent with the specific parameters required by SGA Report 2018/321 R1.2.

## 3. SCOPE AND ASSUMPTIONS

### 3.1. SCOPE

The scope of this report is limited to the items listed below:

1. The scope of this report is limited to the fire-safety issues addressed in SGA Report 2018/321 R1.2 dated 25 January 2019.
2. SGA did not verify evidence unless otherwise stated in this report.
3. The inspections undertaken by SGA do not verify the detailed installation requirements of fire safety systems. Visual inspections (including the witnessing of commissioning tests as appropriate) are limited to verifying that the fire safety systems are consistent with the specific parameters that form the basis of the measures addressed in SGA Report 2018/321 R1.2. The relevant installation contractor is responsible for certifying the detailed installation requirements of fire safety systems.
4. While SGA confirms that the certificates provided by others are relevant to and consistent with the works carried out, SGA does not endorse the certificates mentioned. The relevant installation contractor issuing the certificate is responsible for the accuracy and truth of the certificates.
5. The scope of this report relates to the Stage 1 works only, that are to be occupied from 29<sup>th</sup> January 2019 for Zone B-G. Zone A is to be handed over by 12<sup>th</sup> January 2019. Zone A is a separate structure joined by the Link Bridge – openings to the Link Bridge are to be fitted with BAL-FZ shutters. Further, Zone E Music Rooms are to be handed over by 19<sup>th</sup> February 2019 and Auditorium (including associated auxiliary areas and plant room) are to be handed over by 9<sup>th</sup> March 2019. The Associated auxiliary areas and the plant room is located on Level 4 and Level 5 Zones C and E.

### 3.2. ASSUMPTIONS

1. The SGA Report 2018/321 R1.2 is based on providing bushfire protection measures to the external facades and the roofs of the subject buildings. In addition, it is assumed that all other work complies with the relevant BCA. SGA has not attempted to ascertain if the BCA has been complied with and believes this is the responsibility of the Builder and the Building Certifier to ascertain.

#### 4. METHODOLOGY

The following methodology was used during this assessment and should be considered when drawing conclusions from this Report.

1. Review SGA Report 2018/321 R1.2 dated 25 January 2019 and compile a table of requirements for the building and installed fire safety measures.
2. Conduct a visual inspection (including the witnessing of commissioning tests as appropriate) upon completion of the works of the requirements specified by SGA Report 2018/321 R1.2.
3. Review certification provided by others for works specified by SGA Report 2018/321 R1.2.
4. Based on the visual inspection and the certification provided by others, determine whether the completed works are considered to be consistent with the requirements specified by SGA Report 2018/321 R1.2.
5. Document the findings in the form of a Conformance Report.

## 5. INSPECTIONS

SGA staff have inspected the works for Stage 1 of Lindfield Learning Village on 18<sup>th</sup>, 23<sup>rd</sup> and 25<sup>th</sup> of January 2019 for Zones B-G; 5<sup>th</sup>, 8<sup>th</sup> and 12<sup>th</sup> of February 2019 for Zone A; 18<sup>th</sup> of February 2019 for Zone Music Rooms and 8<sup>th</sup> March 2019 for the Auditorium and associated auxiliary areas to assess the implementation of the bushfire safety measures required by SGA Report 2018/321 R1.2.

The measures are indicated in drawing numbers AR-T-320A-AR-T-325C, Rev B, issued on 17 October 2018 which have been used for the inspections. The drawings are found to generally be consistent with the sighted layout of the building. Additionally, the bushfire measures specified in the drawings and relevant certification has been examined. Lindfield Learning Centre has been separated into Zones A-G which have been inspected independently and documented in Table 2 – Table 9. Please refer to Appendix A for certificates relating to Zone A, Appendix C for certificates relating to Zones B-G, Appendix D for certificates relating to Zone E Music Rooms and Appendix E for certificates relating to Auditorium and associated auxiliary areas. Each Bushfire Measure is numbered according to the drawings and to SGA Report 2018/321 R1.2.

### 5.1. GENERAL ITEMS FOR ZONE B-G (EXCLUDES ZONE E MUSIC ROOMS)

Bushfire Measure	Certification?	Inspected?	Comment and defects
1. External Walls – School must comprise non-combustible construction > 90 mm thick.	Existing walls	Representative Sample Sighted	Walls are existing, and comprise brickwork and concrete.
13. Existing Concrete Roofs must have all openings sealed, be protected by 40 mm ballast.	Refer Taylor Certificate	Representative Sample sighted	Conforms. Ballast on roof areas on drawings numbers AR-T-238D, 238G, 237F were sighted. Level 6 Zone E Roof not complete at time of inspection. Drainage openings to be covered with ballast. Conforms - The items were confirmed as rectified by 5 pm Friday 25 <sup>th</sup> January and certificate provided
14. Roof Penetrations	Refer Taylor Certificate	Representative Sample sighted	Does not conform. Drainage openings to be covered with ballast. This is acceptable provided penetrations do not penetrate concrete roof slab. Conforms - The items were confirmed as rectified by 5 pm Friday 25 <sup>th</sup> January and certificate provided.
15. Roof fans	Refer Taylor Certificate	Representative Sample sighted. Protection of ductwork not sighted.	Provision of mesh conforms. Protection of ductwork not sighted. Conforms - The ductwork were confirmed as protected by email by 5 pm Friday 25 <sup>th</sup> January and certificate provided.



Bushfire Measure	Certification?	Inspected?	Comment and defects
18. Pump set walls	Refer Drencher Certificate	Sighted	Conforms.

**Table 2 – General Bushfire Measures**

**5.2. ZONE A**

Bushfire Measure	Certification?	Inspected?	Comments or Defects
1. External Walls – School must comprise non-combustible construction > 90 mm thick.	Existing walls	Representative Sample Sighted	Walls are existing, and comprise brickwork and concrete.
2. Windows that are to be replaced with BAL-FZ (or FRL -/30/-) windows	Certificate 1914A by NilFire	All inspected.	Conforms.
3. Windows that are to be retained are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Certificate C1288 by Smoke Control Systems	All inspected.	<p>Conforms, subject to the following:</p> <ul style="list-style-type: none"> <li>The following fire shutters requires rectification works to have its bottom track abutting non-combustible construction on a flat surface with aperture less than 3 mm: <ul style="list-style-type: none"> <li>Fire shutter spanning openings W.T.6A09 and W.T.6A10; and</li> <li>Fire shutter spanning openings W.T.6A11 and W.T.6A12.</li> </ul> </li> <li>Fire shutter spanning openings W.T.6A09 and W.T.6A10 has a gap between the external wall and the vertical frame which is required to be sealed with non-combustible material.</li> </ul> <p>The above items were confirmed as rectified through photographic evidence received on 13<sup>th</sup> and 14<sup>th</sup> February 2019. Refer to Appendix B for photographs of the rectification work.</p> <p>Further, at the time of inspection, SGA did not witness the operation of the fire shutters. Therefore, SGA expects that the fire shutters operate as per the certificate provided.</p>
5. External solid doors– to be replaced with doors achieving FRL -/30/- OR doors passing AS 1530.8.2.	Certificate by Knowit Contractors regarding fire doors	All inspected.	Conforms.

Bushfire Measure	Certification?	Inspected?	Comments or Defects
6. External glazed egress doors – to be replaced with doors passing AS 1530.8.2.	Certificate 1914A by NilFire	All inspected.	Conforms.
7. External glazed non-egress doors are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Certificate C1288 by Smoke Control Systems	All inspected.	Conforms. At the time of inspection, SGA did not witness the operation of the fire shutters. Therefore, SGA expects that the fire shutters operate as per the certificate provided.
8. Weepholes /Joints are to be sealed such that openings are 3 mm or less.	Certificate by Conrina Remedial Building Solutions regarding	Representative Samples Sighted.	Representative sample conforms. Only representative samples have been inspected and SGA expects all weepholes/joints are to comply with the subject bushfire measure.
9. Louvres or Ventilation openings are to be screened with mesh in which the aperture is 3 mm or less.	Certificate by Smoke Control Systems regarding ember mesh	All inspected.	Conforms, subject to the following: <ul style="list-style-type: none"> <li>The louvre located on the northern external wall of Level 4 must be protected with ember-proof mesh with aperture less than 3 mm;</li> <li>The ember mesh screens located on the western internal wall of the gymnasium have gaps between the wall and the vertical frame, which must be sealed with non-combustible material and have aperture less than 3 mm.</li> </ul> The above items were confirmed as rectified through photographic evidence received on 13 <sup>th</sup> February 2019.
11. Light fitting in external walls.	Certificate by Aston Group Electrical Contractors	Representative Samples Sighted.	Conforms, subject to photographic evidences showing that the gaps between the metal plate the brick work have been sealed. Photographic evidence is required for the above item to be completed. The above items were confirmed as rectified through representative number of photographs for the light fittings received on 13 <sup>th</sup> February 2019.

Bushfire Measure	Certification?	Inspected?	Comments or Defects
12. Existing Steel Roof is to be made of non-combustible external layer.	Certificate by AGF Metal Roofing regarding roof coverings and sarking	Representative Areas Sighted.	Conforms.
13. Existing Concrete Roofs must have all openings sealed, be protected by 40 mm ballast.	Certificate by The Superseal Group (NSW) regarding ballast	Level 6 inspected and Level 7 (Roof Level) could not be accessed at the time of inspection.	Conforms, subject to photographic evidence showing that certain portions of Level 7 (Roof Level) have been protected by the ballasts. The above items were confirmed as rectified through photographic evidence received on 13 <sup>th</sup> February 2019.
14. Roof Penetrations	Certificate by the Bluewater Group NSW regarding roof penetration fire seals	Level 7 (Roof Level) could not be accessed at the time of inspection.	Conforms, subject to the following: <ul style="list-style-type: none"> <li>Photographic evidence showing that the fume cupboard extraction pipework (potentially PVC material) has been enclosed with non-combustible material as a minimum requirement; and</li> <li>Photographic evidence showing that the pipework penetrating Level 6 southern balcony has been covered with a dome.</li> </ul> The above items were confirmed as rectified through photographic evidence received on 13 <sup>th</sup> and 14 <sup>th</sup> February 2019. Refer to Appendix B for photographs of the pipework rectification work.
16. Underside of Floors to be installed with fibre-cement lining complying with “fire protective covering” as per NCC 2016 Amendment 1.	Certificate by Auzoom Projects regarding fibre cement lining	All inspected.	Conforms.
17. Large Ventilation openings or Louvres in external walls opening into occupied areas/areas with combustibles to be fitted with fire shutters.	Certificate C1288 by Smoke Control Systems	All inspected.	Conforms, based on certification. Fire shutters were inspected and confirmed to be present, however at the time of inspection, SGA did not witness the operation of the fire shutters. Therefore, SGA expects that the fire shutters operate as per the certificate provided. Further, it is expected that any gaps larger than 3 mm (or the width permitted by the AS 1530.8.2 test certificate) after the

Bushfire Measure	Certification?	Inspected?	Comments or Defects
			fire shutter is closed to be sealed or protected with ember-proof mesh.
Dust Extraction duct penetrating the eastern external wall on Level 5.	Certificate by Climatech NSW regarding fire damper	Fire damper could not be inspected.	Conforms, based on review of certification only. SGA expects that the fire damper has installed within the wall, as per the certificate.

**Table 3 – Zone A Bushfire Measures**

**5.3. ZONE B**

Bushfire Measure	Certification?	Inspected?	Comments or Defects
3. Windows that are to be retained are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Refer Certificate 1914 by NilFire	All inspected	<p>The following fire shutters were witnessed to not shut completely as required:</p> <ol style="list-style-type: none"> <li>1. W.T.4B01</li> <li>2. W.T.4B02</li> <li>3. W.T.4B03</li> <li>4. W.T.5B15</li> </ol> <p>Conforms - These items were confirmed as rectified by 5 pm Friday 25<sup>th</sup> January and certificate provided.</p>
6. External glazed egress doors – to be replaced with doors passing AS 1530.8.2.	Refer Certificate C1286	All inspected	Conforms.
7. External glazed non-egress doors are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Refer Certificate 1914 by NilFire	All inspected	<p>Fire shutter installed to D.T.6B22 was noted to not be installed within frame.</p> <p>Fire Shutter installed to W.T.6B06 contains a gap underneath &gt; 3mm.</p> <p>Conforms - The items were confirmed as rectified by 5 pm Friday 25<sup>th</sup> January and certificate provided.</p>
8. Weepholes /Joints are to be sealed such that openings are 3 mm or less.	Refer Taylor Certificate	Representative Sample	Conforms.

**Table 4 - Zone B Bushfire Measures**

**5.4. ZONE C**

Bushfire Measure	Certification?	Inspected?	Defect/s
2. Windows that are to be replaced with BAL-FZ (or FRL -/30/- ) windows	Refer Certificate 1914 by NilFire	All inspected	Conforms.
3. Windows that are to be retained are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Refer Certificate C1286	All inspected	<p>The following fire shutters were witnessed to not shut completely as required:</p> <ol style="list-style-type: none"> <li>1. W.T.4C01</li> <li>2. W.T.4C03</li> <li>3. W.T.5B15</li> </ol> <p>The following fire shutters were witnessed to have gaps due to framing not being completely installed and sealed:</p> <ol style="list-style-type: none"> <li>4. W.T.5C19</li> <li>5. W.T.5C20</li> <li>6. W.T.6C21</li> <li>7. W.T.6C22</li> </ol> <p>Conforms – These seven items were confirmed as rectified by 5 pm Friday 25<sup>th</sup> January and certificate provided.</p>
5. External solid doors– to be replaced with doors achieving FRL -/30/- OR doors passing AS 1530.8.2	Refer Certificate by Knowit Contractors		Certificate sighted – replaced doors generally sighted, door tags not yet installed.
6. External glazed egress doors– to be replaced with doors passing AS 1530.8.2	Refer Certificate 1914 by NilFire	-	Conforms.

**Table 5 - Zone C Bushfire Measures**

**5.5. ZONE D**

Bushfire Measure	Certification?	Inspected?	Comment and defects
2. Windows that are to be replaced with BAL-FZ (or FRL -/30/- ) windows	Refer Certificate 1914 by NilFire	- All inspected	Conforms - Inspected windows that are replaced above main entranceway (WT5D11). Stamp to bottom right hand corner sighted (but not legible).
3. Windows that are to be retained are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Refer Certificate C1286	All inspected	Conforms – Inspected windows on Northern Façade, fire shutters sighted when closed. WT6D01,2,3,4,5,6,7.  Inspected windows on Eastern Façade (cafeteria), fire shutters sighted when open (not yet complete).  Conforms - The items were confirmed as rectified by 5 pm Friday 25 <sup>th</sup> January and certificate provided.
5. External solid doors – to be replaced with doors achieving FRL -/30/- OR doors passing AS 1530.8.2	Refer Certificate by Knowit Contractors	Representative sample inspected	Certificate sighted – replaced doors generally sighted, door tags not yet installed.
6. External glazed egress doors – to be replaced with doors passing AS 1530.8.2	Refer Certificate 1914 by NilFire	All inspected	Conforms – main entranceway doors sighted.

**Table 6 - Zone D Bushfire Measures**



## 5.6. ZONE E

NOTE: NORTHERN FAÇADE OF MUSIC ROOM EXCLUDED FROM INSPECTION – THIS IS NOT COMPLETE AND DOES NOT CONFORM, AND IS TO BE SEPARATED BY FRL (120)/120/120 FROM REST OF ZONE E.

Bushfire Measure	Certification?	Inspected?	Comment and defects
2. Windows that are to be replaced with BAL-FZ (or FRL -/30/- ) windows	Refer Certificate 1914 by NilFire	All inspected	Conforms - Windows above door to F1 stair sighted.
3. Windows that are to be retained are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Refer Certificate C1286	All inspected	Conforms - Shutters to WTL6E01,2,3 sighted. Conforms - Shutters to WT4E02,3 sighted.
5. External solid doors – to be replaced with doors achieving FRL -/30/- OR doors passing AS 1530.8.2	Refer Certificate by Knowit Contractors	Representative sample inspected	Certificate sighted – replaced doors generally sighted, door tags not yet installed.
6. External glazed egress doors – to be replaced with doors passing AS 1530.8.2	Refer Certificate 1914 by NilFire	All inspected	Conforms – Level 5E door from E1 sighted.  Does not conform – Level 4E exit doors not sighted. These doors are part of the Music Rooms and Auditorium and are to be separated from the occupied school by fire-resisting construction achieving an FRL of (120)/120/120.
10. Ventilation openings or Louvres in external walls opening into occupied areas/areas with combustibles	-	-	Does not conform – Louvres to Plant Room Window WTL5E02 not sighted – this is part of the Auditorium fire compartment and is not complete at the time of this report. This area is to be separated from the occupied school by fire-resisting construction achieving an FRL of (120)/120/120.
17. Large Ventilation openings or Louvres in external walls opening into occupied areas/areas with combustibles to be fitted with fire shutters			Conforms – Fire Shutters sighted. Noted that this is part of the Auditorium fire compartment and is not complete at the time of this report. This area is to be separated from the occupied school by fire-resisting construction achieving an FRL of (120)/120/120.

**Table 7 - Zone E Bushfire Measures**

**5.7. ZONE F**

Bushfire Measure	Certification?	Inspected?	Defect/s
3. Windows that are to be retained are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Refer Certificate C1286	Inspected.	Tear out of frame noted on Gridline 6080 and 3880. Conforms - The items were confirmed as rectified by 5 pm Friday 25 <sup>th</sup> January and certificate provided.

**Table 8 - Zone F Bushfire Measures****5.8. ZONE G**

Bushfire Measure	Completely Inspected	Inspected?	Defect/s
2. Windows that are to be replaced with BAL-FZ (or FRL -/30/- ) windows	Refer Certificate 1914 by NilFire	-	Conforms.
3. Windows that are to be retained are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Refer Certificate C1286	-	Conforms.
6. External glazed egress doors – to be replaced with doors passing AS 1530.8.2	Refer Certificate 1914 by NilFire	-	Conforms.

**Table 9 - Zone G Bushfire Measures**

## 5.9. ZONE E MUSIC ROOMS

Bushfire Measure	Certification?	Inspected?	Comments or Defects
1. External Walls – School must comprise non-combustible construction > 90 mm thick.	Not required	Representative Sample Sighted.	Walls are existing, and comprise brickwork and concrete.
3. Windows that are to be retained are to be fitted with fire-resisting FRL -/30/- (or BAL-FZ) shutters.	Certificate C1288 by Smoke Control Systems	All inspected.	<p>Conforms, subject to the following:</p> <ul style="list-style-type: none"> <li>Fire shutter installed in the opening W.T.4E03 has a gap between the bottom of the vertical frame and the brick window seal which is required to be sealed with non-combustible material.</li> </ul> <p>The above items were confirmed as rectified through photographic evidence received on 19<sup>th</sup> February 2019.</p> <p>Further, at the time of inspection, SGA did not witness the operation of the fire shutters. Therefore, SGA expects that the fire shutters operate as per the certificate provided.</p>
5. External solid doors– to be replaced with doors achieving FRL -/30/- OR doors passing AS 1530.8.2.	Certificate by Knowit Contractors regarding fire doors	All inspected.	Conforms.
8. Weepholes /Joints are to be sealed such that openings are 3 mm or less.	Certificate by Conrina Remedial Building Solutions regarding	Representative Samples Sighted.	<p>Representative sample conforms.</p> <p>Only representative samples have been inspected and SGA expects all weepholes/joints are to comply with the subject bushfire measure.</p>
13. Existing Concrete Roofs must have all openings sealed, be protected by 40 mm ballast.	Certificate by The Superseal Group (NSW) regarding ballast	All inspected.	<p>Conforms, subject to the following:</p> <ul style="list-style-type: none"> <li>Parts of the roof has not been protected by ballast and photographic evidence to be provided showing that the all of the roof is protected by the ballast.</li> </ul> <p>The above items were confirmed as rectified through photographic evidence received on 19<sup>th</sup> February 2019.</p>

Bushfire Measure	Certification?	Inspected?	Comments or Defects
15. Roof fans	Certificate by Climatech NSW	All inspected.	Conforms.

**Table 10 – Zone E Music Rooms Bushfire Measures**

## 5.10 AUDITORIUM AND ASSOCIATED AUXILLIARY AREAS INCLUDING PLANT ROOM

Bushfire Measure	Certification?	Inspected?	Comments or Defects
2. Windows that are to be replaced with BAL-FZ (or FRL -/30/-) windows	Refer Certificate 1914 by NilFire	All inspected.	Conforms.
5. External solid doors– to be replaced with doors achieving FRL -/30/- OR doors passing AS 1530.8.2.	Certificate by Knowit Contractors regarding fire doors	All inspected.	Conforms, Doors were present however FRL tags were not in place. Therefore conformance is <b>subject to the following</b> : <ul style="list-style-type: none"> <li>• <b>Photographic evidence showing the door tags with the appropriate FRL.</b></li> </ul>
6. External glazed egress doors – to be replaced with doors passing AS 1530.8.2	Refer Certificate 1914 by NilFire	All inspected	Conforms.
8. Weepholes /Joints are to be sealed such that openings are 3 mm or less.	Certificate by Conrina Remedial Building Solutions regarding	Representative Samples Sighted.	Conforms.
9. Louvres or ventilation openings into ducts/areas with no combustibles.	Certificate by Climatech NSW	Representative Samples Sighted.	Conforms, <b>subject to the following</b> : <ul style="list-style-type: none"> <li>• <b>Small louvres located on the western external wall of the plant room in Zone E must be protected with ember-proof mesh with aperture less than 3mm.</b></li> </ul>
13. Existing Concrete Roofs must have all openings sealed, be protected by 40 mm ballast.	Certificate by The Superseal Group (NSW) regarding ballast	All inspected.	Conforms, <b>subject to the following</b> : <ul style="list-style-type: none"> <li>• <b>Photographic evidence showing that the ballasts have been laid throughout the auditorium roof.</b></li> </ul>
14. Roof Penetrations	Certificate by Climatech NSW	All inspected.	Conforms, subject to the following: <ul style="list-style-type: none"> <li>• <b>Photographic evidence showing the completion of the ductwork installation.</b></li> </ul>

Bushfire Measure	Certification?	Inspected?	Comments or Defects
15. Roof fans	Certificate C1301 by Smoke Control Systems	All inspected.	Conforms, subject to the following: <ul style="list-style-type: none"> <li>• <b>Photographic evidence showing the installation of all the shutters to the smoke extraction system. Any gaps between the ductwork and the shutter shall be sealed of appropriately.</b></li> </ul>
17. Large Ventilation openings or Louvres in external walls opening into occupied areas/areas with combustibles to be fitted with fire shutters.	Certificate C1288 by Smoke Control Systems	All inspected.	Conforms, subject to the following: <ul style="list-style-type: none"> <li>• <b>Fire shutter spanning opening W.T.L5E01 (Level 5 Zone E) requires rectification works to have its bottom track abutting non-combustible construction on a flat surface with aperture less than 3 mm.</b></li> </ul>
Fire-resisting roller shutter on the loading dock entrance.	Certificate by Able Door Services (NSW)	This is regarding the loading dock roller shutter located on Level 4 Zone C (Opening D.T.4C12).	Conforms.
Fire-resisting construction on the loading dock entrance.	Certificate by Auzoom Projects	All inspected.	Conforms.

Table 11 – Auditorium and Associated Auxiliary Areas including Plant Room

## 6. SUMMARY

The inspection of the area and the information examined indicated that the building work relating to the Bushfire Compliance Report has been completed in the order shown below. The completed work is generally consistent with the specific parameters required by SGA Report 2018/321 R1.2 dated 25 January 2019:

4. Work in the remainder of the Stage 1 school that was not complete at the time of the last inspection for Zone B-G (Friday 25<sup>th</sup> January) was subsequently confirmed as complete in writing and certificates provided.
5. The work that was unfinished at the time of the last inspection for Zone A (Tuesday 12<sup>th</sup> February) was subsequently confirmed as complete through photographic evidence provided.
6. The work that was unfinished at the time of the last inspection for Zone E Music Rooms (Monday 18<sup>th</sup> February) was subsequently confirmed as complete through photographic evidence provided. Refer to Table 1 for the progress of the various Zones for Stage 1 of the project.
7. The completed work for Zones A-G and Zone E Music Rooms is generally consistent with the specific parameters required by SGA Report 2018/321 R1.2 dated 25 January 2019, and is expected to comply with the BAL-FZ requirements of AS 3959-2009. Inspection for the subject zone was undertaken on 18 February 2019.
8. The completed work for the Auditorium and associated auxiliary areas including the Plant Room is generally consistent with the specific parameters required by SGA Report 2018/321 R1.2 dated 25 January 2019, and is expected to comply with the BAL-FZ requirements of AS 3959-2009. Inspection for the subject zone was undertaken on 8 March 2019.

## 7. REFERENCES

The following documentation was used in the preparation of the report:

- *Fire Safety Strategy Report, 2018/321 R1.2*, 25 January 2019, Stephen Grubits & Associates;
- *AS 3959 – 2009 Amendment 3 Construction of buildings in bushfire-prone areas*, 2009 Standards Australia.



**APPENDIX A. ZONE A CERTIFICATION**

Sedman Pty Ltd  
ABN 330 758 39 738  
Trading as  
Tel: 02 9986 0844 Fax: 02 9986 0855  
Email: [greg@nilfire.com.au](mailto:greg@nilfire.com.au)

Unit 11, J6 Jubilee Avenue  
WARRIEWOOD NSW 2102

Web: [www.nilfire.com.au](http://www.nilfire.com.au)

Australia's No. 1 Fire Resistant Glazing Experts

**CERTIFICATE NO. 1914A**

Our Ref: 2628  
Installed Date: 18/1/2019

Taylor Construction  
Level 13/157 Walker Street,  
North Sydney  
NSW, 2060

**PREMISES: 100 ETON ROAD, LINDFIELD NSW 2070**

Fire windows as listed below were manufactured and installed in accordance with tested prototypes tested to the relevant Australian Standard

**Essential Service or Other Safety Measure****Relevant Standard or Performance****ZONE A**

1 off 2712mm high x 2204mm wide Cease Fire Bal-FZ fire resistant door, highlight and sidelight glazing system [*Single hinged door with three off fixed highlights and two off sidelights either side of the door*] (5A06)

1 off 2463mm high x 2607mm wide Cease Fire Bal-FZ fire resistant door and sidelight glazing system [*Single hinged door with sidelights either side of the door*] (4A01)

4 off 2705mm high x 4200mm wide Cease Fire Bal-FZ fire resistant doors, highlight and sidelight glazing system [*Pair of hinged doors with two off fixed highlights and two off sidelights either side of the doors*] (5A02-5A05)

AS1530 Part 8.2 &  
AS3959 Section 9  
AS2047-1999  
AS1288-2006  
BCA Clause D2.19 (see Doma  
Certification attached)  
BCA Clause D2.21  
SGA Report 2018/321R1.2

\_\_\_\_\_  
Greg Sedman

Date: 21/1/19

Position: Director



**DORMAKABA Australia Pty. Ltd.**  
**Product Warranty & Compliance Certificate**

22 January 2019

Niifire  
Unit 3, 83 Bassett Street  
MONA VALE NSW 2103

**Site: - LINDFIELD LEARNING VILLAGE – PARTIAL SCHOOL**  
**Eton Road Lindfield NSW**  
**Door: D.T.5D34**  
**Serial Number: 547293-1, 547293-2**

**RE: CERTIFICATE OF ESSENTIAL SERVICE**  
**REQUIRED EXIT DOORS (AUTOMATIC)**

I wish to advise that the Automatic Swing Door Operator(s), recently installed at the above site has been inspected by our technician and found to comply with the requirements for Certificate of Essential Service - Required Exit Doors (Automatic) in accordance with the Environmental Planning & Assessment Regulation 2000 and the Building Code of Australia (BCA) 2016 – D2.19, D2.20 and D2.21 of the Building Code of Australia. Each Entry can be opened manually under a force of not more than 110 N if there is a malfunction or failure of the power source. Latching also complies with AS 1428.1 - 2009 part 13.5 and the Australian Standard AS5007-2007, Automatic Swing Door Assemblies.

I, Gary Finlay of the below address, certify that the technician who installed the door equipment was to the best of my knowledge and belief, competent to conduct the inspection and that the information contained in this certificate is to the best of my knowledge and belief is true and accurate.

**WARRANTY & GUARANTEE**

The DORMAKABA Automatic Door Operator(s), supplied to you is covered by a 12 month labour warranty, and parts guarantee of 2 years commencing from the date of commissioning. Warranty is void where parts are subject to vandalism, misuse, abuse, or wilful and malicious damage. Warranty shall lapse if malfunctions result from abuse or failure to maintain the product in accordance with AS5007 via an accredited DORMA Australia employee or authorized service agent / representative. Labour warranty does not apply for after hours or weekend call outs.

Yours sincerely,  
DORMAKABA Australia Pty Ltd



Gary Finlay  
Installations Supervisor

**DORMAKABA Australia Pty. Ltd.**  
12/14 Yulong Close  
MOOREBANK NSW 2170  
Australia

DORMAKABA Australia Pty Ltd | 12/14 Yulong Close Moorebank NSW 2170  
T: 02 8787 4795 / F: 9645 8345 / www.dormakaba.com.au | ABN 14 067 969 466

BAL-FZ Shutters Vegetation =&gt;10M from Façade

COC: C1288

## Certificate of Compliance

### Smoke Control Systems P/L Certify:

The following BAL FZ Motorised FyreHalt Shutters (also marketed as Warrior Shutter FZ-M), have been supplied for the project referenced below.

Product	FRL	Location	Compliance
Warrior FZ shutters (Fyrehalt V)	-/30/-	Zone A	AS3959 Section 9

The above products have been installed at the building zones referenced above (refer to window schedule for detailed locations) at:

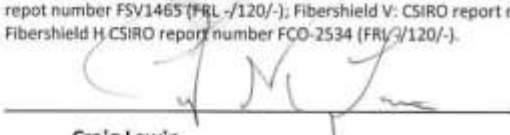
**Lindfield Learning Village**  
Stage One Building Works  
**100 Eton Road Lindfield NSW**

As far as can be ascertained the product noted above and installed by Smoke Control Systems (as per the tested units and in strict accordance with the manufacturer's instructions) are compliant to Bush Fire Shutter Standards and project specifications:

AS3959 Part 9 Flame Zone Requirements for a protection level equal to AS1530.4 and a proven performance level greater than an FRL of -/30/-.

The above installed shutter products are compliant for Bushfire applications designated in the standard and qualified under section 9.1 General BAL FZ for their specific applications as noted below:  
Where the building has been assessed under Section 2 as BAL-FZ and the building or (exposed façade) has been determined to have a set back distance of 10 meters or greater from classified vegetation. The product supply and installation in full accordance with Stephen Grubbits & Associates FER 2018/321 Version R1.2

Approvals evidencing compliance to the required performance levels noted above are Fyrehalt CSIRO report number FSV1465 (FRL -/120/-); Fibershield V: CSIRO report number FCO-2730 (FRL -/120/-); Fibershield H CSIRO report number FCO-2534 (FRL -/120/-).

  
**Craig Lewin**

On behalf of Smoke Control Systems Pty Ltd

T: 1300 665 471

[www.smokecontrol.com.au](http://www.smokecontrol.com.au)

[www.warriorwindows.com.au](http://www.warriorwindows.com.au)



**FIRE DOORS – INSTALLATION CERTIFICATE**

Project Name:	Lindfield Learning Village – Phase 1
Address:	100 Eton Road, Lindfield
Part of Building to be certified:	Phase 1 - Partial School, Zone A Level 3, 4, 5&6

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Fire doors	BCA2016 Specification C3.4 Clause C3.5 & AS 1905.1-2015
External solid doors - to be replaced with doors achieving FRL +30/- OR doors passing AS 1530.8.2	Stephen & Grubbits Report 2016/321 R1.2

Exclusions (if any):

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations:

Contractor Licence No. 164315C

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Glenn Smith

Company: Knowit Constructions Pty Ltd

Address: 4/32 Liney Avenue Clemton Park NSW 2206

Phone No.: 02 9787 4207

Signature:  Date: 08/02/2019



**REMEDIAL  
BUILDING  
SOLUTIONS**

ABN: 32 059 519 541  
17/11-21 Underwood Rd, Homebush, NSW 2140  
02-9746 7133, 02-9746 7166

### BUSHFIRE CONSTRUCTION – BUILDING FAÇADE – INSTALLATION CERTIFICATE

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 – Partial School – Zone A – Level 6

I hereby certify that:

The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or System	Standards of Performance
<ul style="list-style-type: none"> <li>Protector Weep Hole Screens have been installed to the existing masonry walls to exterior elevations of the building including roof areas</li> <li>High Performance Bushfire Weepa plugs have been installed to the new masonry work to the roof and balcony areas where the damp proof course has been replaced</li> <li>Stainless Steel Ember Mesh Ultra has been install to the subfloor brick vents to Zone A building</li> </ul>	<p>Sections 3 and 9 (Bush Fire Attack Level (BAL) Flame Zone (FZ) of Australian Standard AS 3959:2009</p> <p>Construction of buildings in bush fire prone areas or NASH Standard (1.7.14 updated) National Standard Steel Framed Construction in Bushfire Areas – 2014</p> <p>“Stephen Gruibits &amp; Associates Report 2018/321 R1.2 for Bush Fire Measures”</p>

Exclusions: All other external areas of the building outside the scope of works provided by Taylor

I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

- Associate Diploma in Applied Science (Building)
- Building Supervision License
- 25 years' experience

The information contained in this statement is true and accurate to the best of my knowledge.

**Name:** CON ZARAFETAS  
**Company:** CRBS  
**Address:** 17/11-21 Underwood Rd Homebush 2140  
**Phone No:** 9746 7133

**Signature:** 

**Date:** 25/01/2019

**Conrina Constructions Pty Ltd**  
(Trading as Conrina Remedial Building Solutions)



**MESH – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Specifically: Zones B & E (Underfloor Areas) Zone A Basket Ball Courts and Louvre Door (adjacent to football field) Zone A Louvre Vent adjacent to plant room

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Louvres or Ventilation openings are to be screened with mesh in which the aperture is 3 mm or less. SCS Ember Screens are Stainless Steel Mesh with Aluminium Framing Mesh painted Black	Stephen & Grubbits report 2018/321 R1.2

Exclusions (if any):

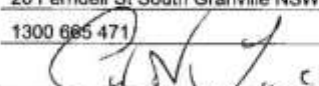
1. Mesh Installed in all zones that are not specifically referenced here.
2. Mesh over building weep holes in all zones
3. Silver coated 2 piece Mesh Kits

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

BAFA: BchEd : 40Years within industry : Member Various AS committees.

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Craig Lewin  
 Company: Smoke Control Systems P/L  
 Address: 26 Ferndell St South Granville NSW  
 Phone No.: 1300 665 471  
 Signature:  Date: 9/02/2019

**Lighting to External Walls – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone A

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

<b>Measure and/or system</b>	<b>Standard of Performance</b>
Light fitting in external walls.	SGA Bushfire Measures Compliance Report 2018/321 R1.2.

Exclusions (if any): N/A

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Electrical Licence 156906C

- c) The information contained in this statement is true and accurate to the best of my knowledge.

ELECTRICAL | VOICE & DATA | FIBRE OPTICS | AUDIO VISUAL | INDUSTRIAL AUTOMATION

P 02 8599 6930 F 02 8078 0143 E info@rastongroup.com.au  
Unit 2/727 Horsley Drive, Smithfield NSW 2164 ABN 30 164 273 581 www.rastongroup.com.au



Name: Bruno Rao  
Company: Raston Group  
Address: Unit 2, 727 The Horsley Drive Smithfield  
Phone No.: 8599 9630  
Signature:  Date: 11.02.19

ELECTRICAL | VOICE & DATA | FIBRE OPTICS | AUDIO VISUAL | INDUSTRIAL AUTOMATION

P 02 8599 9630 F 02 8078 0143 E info@rastongroup.com.au  
Unit 2/727 Horsley Drive, Smithfield NSW 2164 ABN 30 164 273 581 www.rastongroup.com.au



**ROOF COVERINGS – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone A

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Roof coverings and sarking	AS 1562.1-1992 (metal roof sheeting) AS/NZS 4200 Part 1 and 2-1994 (sarking) Stephen & Grubbits report 2018/321 R1.2

Exclusions (if any): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_


- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Director

Licence No 203849C

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Simon Carnovale  
Company: AGF Metal Roofing Pty Ltd  
Address: 3 Warraba Rd Narrabeen NSW 2101  
Phone No.: (02) 9913 3800  
Signature:  Date: 07/02/19

**FIRE HAZARD PROPERTIES – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone A

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Ballast	a) In accordance with Stephen & Grubbits Report 2018/321 R1.2

Exclusions (if any): \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Waterproofing License #277672C

18+ Years as qualified waterproofing

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Adam Mansour

Company: The Superseal Group (NSW)

Address: 41/65 Marigold St Revesby 2212

Phone No.: 9774 1004

Signature: \_\_\_\_\_

Date: 8/02/2019

**FIRE SEALS – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Zone A Level 3,4,5&6

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the design, specification and the nominated Standards of Performance and are installed in accordance with the manufacturer's instructions.

Measure and/or system	Standard of Performance
Fire seals protecting openings in fire resisting components of the building. Systems installed: <b>RIR 25948-07</b> (PROMOSEAL wrap and mineral wool) <b>EWFA 37930500.3</b> (Bulkhead Batt wall steel pipes) <b>EWFA 29592300.3</b> (Combo wall and slab report) <b>EWFA 26539900.1</b> (Renewal of 21405) <b>RIR 21405</b> (FWR Various slab thickness)	BCA2016 Clause C3.15 SGA Bushfire Measures Compliance Report 2018/321 R1.2

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Bluewater Group Contractor Lic No. 28017C (Drainer, Gasfitter, Plumber).

Company Contractor Lic No. 26130C

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: John Ezzy

Company: The Bluewater Group NSW

Address: 13/5 Gladstone Road Castle hill NSW 2154

Phone No.: 02 9894 2544

Signature:  Date: 6/02/2018

Installation Certificate – Fire Seals

Page 1 of 1

**FIRE SEALS – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone A

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance and are installed in accordance with the manufacturer's instructions.

Measure and/or system	Standard of Performance
Fire seals protecting openings in fire resisting components of the building. Systems installed:  Fire Damper - 4900'S' Slab Mounted Spring Curtain Test Report No SI 1864 & WT 58  Fire Damper - 4900, 5000 & 5650 series Test report in Masonry & Stud Wall with metal expansion spacers EWFA No 27030-03.  Fire Dampers - Exova 22774-05 - Climatech - Lindfield Learning Ctr  Fire Rated Mastic - FCO 1579 - FyreFLEX FOA  Fire Collars - FP 6202 - 2x13mm plaster - Maxilite, sealant, collars  Fire Wrap - FCO-3024A - Insulated Penetrations  Fire Rated Mastic – FAR 4849 - Fyreplex summary assessment  Fire Pillows - FCO 1775 - Fyreplug Pillows Assessment	BCA2016 Clause C3.15  Stephen Grubits & Associates Report 2018/321 R1.2 for Bush Fire Measures

Exclusions (if any): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

B.E (Hons) with 15 years experience in mechanical services & Director – Climatech NSW Pty Ltd

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Nahi Beaini BE (hon) | Director Climatech Group

Company: Climatech NSW Pty Ltd

Address: 100 Queen Street, Beaconsfield

Phone No.: 9698 0033

Signature:  Date: 11/02/19

**FIBRE CEMENT LINING – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone A

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Underside of Floors to be installed with fibre-cement lining complying with "fire protective covering" as per NCC 2016 Amendment 1.	SGA Bushfire Measures Compliance Report 2018/321 R1.2.

Exclusions (if any): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Contractor Licence NO. 302710C

Certificate III in wall and ceiling lining, NO 005392

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Michael Chen  
 Company: Auzoom Projects Pty Ltd  
 Address: Unit 27/2 Slough Ave, Silverwater NSW 2128  
 Phone No.: 02-8387 9259

Signature:  Date: 08/02/2019

**Dust Extraction – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone A Level 5

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Dust Extraction duct penetrating the eastern external wall on Level 5.	The duct penetrating the eastern external wall has been provided with a fire damper and to meet - / 120 / - (FRL).

Exclusions (if any): \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

B.E (Hons) with 15 years experience in mechanical services & Director – Climatech NSW Pty Ltd

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Nahi Beaini BE (hon) |Director Climatech Group

Company: Climatech NSW Pty Ltd

Address: 100 Queen Street, Beaconsfield

Phone No.: 9698 0033

Signature: 

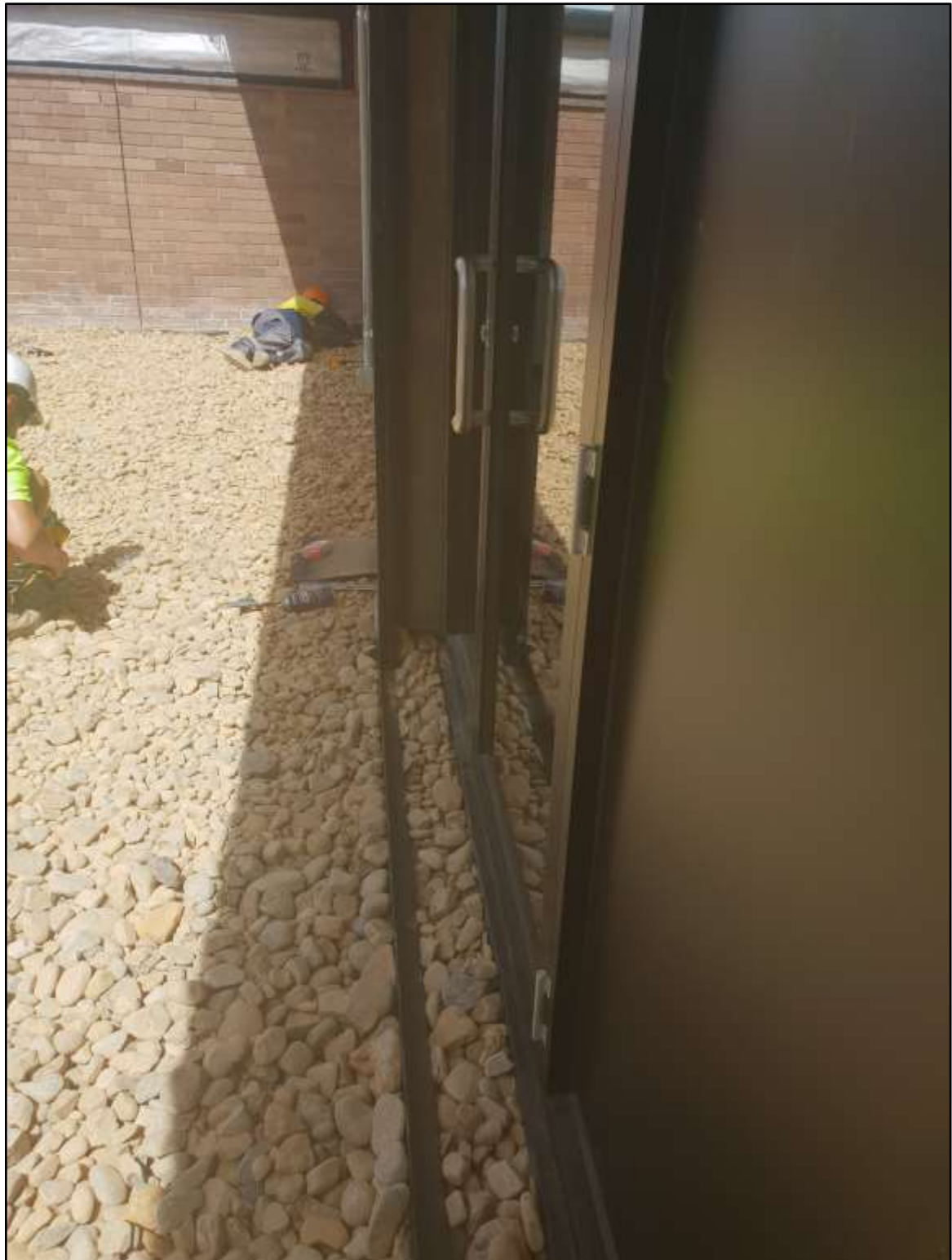
Date: 11/02/19



## APPENDIX B. ZONE A PHOTOGRAPHS



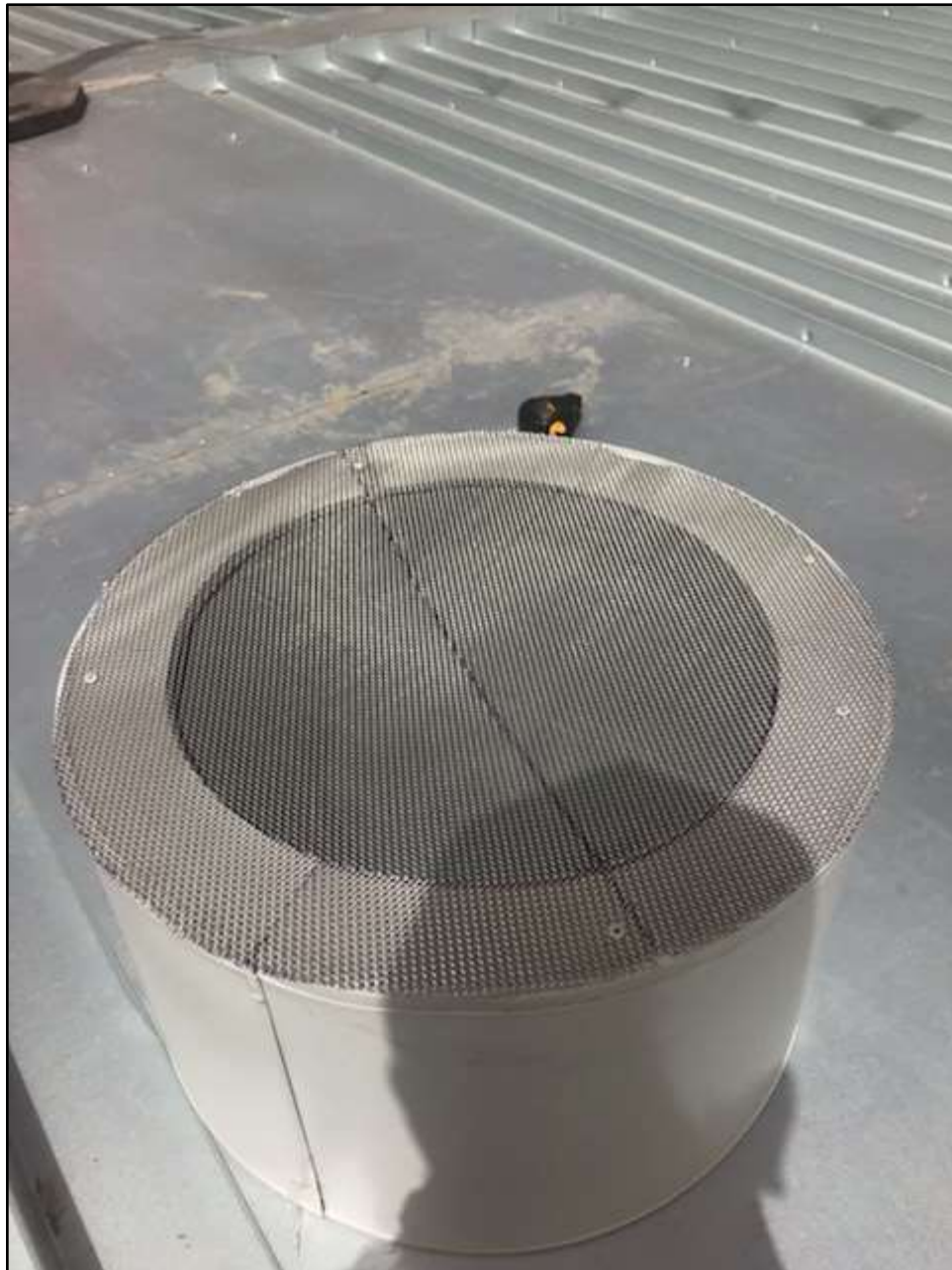












**APPENDIX C. ZONES B-G CERTIFICATION**

Sedman Pty Ltd  
 ABN 330 758 39 738  
 Trading as  
 Tel: 02 9986 0844 Fax: 02 9986 0855  
 Email: [greg@nilfire.com.au](mailto:greg@nilfire.com.au)

Unit 11, J6 Jubilee Avenue  
 WARRIEWOOD NSW 2102

Web: [www.nilfire.com.au](http://www.nilfire.com.au)

Australia's No. 1 Fire Resistant Glazing Experts

## **CERTIFICATE NO. 1914**

Our Ref: 2628  
 Installed Date: 18/1/2019

Taylor Construction  
 Level 13/157 Walker Street,  
 North Sydney  
 NSW, 2060

### **PREMISES: 100 ETON ROAD, LINDFIELD NSW 2070**

Fire windows as listed below were manufactured and installed in accordance with tested prototypes tested to the relevant Australian Standard

#### **Essential Service or Other Safety Measure**

#### **Relevant Standard or Performance**

1 off 5440mm high x 2460mm wide Cease Fire Bal-FZ fire resistant door, highlight and sidelight glazing system *[Single hinged door with four off fixed highlights and one off sidelight]* (4E04)

AS1530 Part 8.2 &  
 AS3959 Section 9  
 AS2047-1999  
 AS1288-2006  
 BCA Clause D2.19 (see Dorma Certification attached)  
 BCA Clause D2.21

1 off 2712mm high x 2204mm wide Cease Fire Bal-FZ fire resistant door, highlight and sidelight glazing system *[Single hinged door with three off fixed highlights and two off sidelights either side of the door]* (5A06)

1 off 2463mm high x 2607mm wide Cease Fire Bal-FZ fire resistant door and sidelight glazing system *[Single hinged door with sidelights either side of the door]* (4A01)

1 off 2393mm high x 2855mm wide Cease Fire Bal-FZ fire resistant door and sidelight glazing system *[Single hinged door with two off sidelights on one side of the door and single sidelight on other sidelight]* (5G04)

1 off 2705mm high x 4200mm wide Cease Fire Bal-FZ fire resistant doors, highlight and sidelight glazing system *[Pair of*



Sedman Pty Ltd  
ABN 330 758 39 738  
Trading as  
Tel: 02 9986 0844 Fax: 02 9986 0855  
Email: [greg@nilfire.com.au](mailto:greg@nilfire.com.au)

Unit 11, J6 Jubilee Avenue  
WARRIEWOOD NSW 2102

Web: [www.nilfire.com.au](http://www.nilfire.com.au)

Australia's No. 1 Fire Resistant Glazing Experts

*hinged doors with two off fixed highlights and two off sidelights either side of the doors] (SA02-SA05)*

1 off 2390mm high x 6956mm wide Cease Fire Bal-FZ fire resistant doors and sidelight glazing system *[Two off pairs of hinged doors and one of single hinged door with one off sidelights at either end of the system]* (Main Entry doors – D511)

1 off 3260mm high x 6956mm wide Cease Fire Bal-FZ fire resistant window system *[Fixed highlight glazing – 10 off fixed panes]* (D511)

A handwritten signature in blue ink, appearing to read "Greg Sedman".

\_\_\_\_\_  
Greg Sedman

Date: 21/1/19

Position: Director

BAL-FZ Shutters Vegetation =&gt;10M from Façade

COC: C1286

## Certificate of Compliance

### Smoke Control Systems P/L Certify:

The following BAL FZ Motorised FyreHalt Shutters (also marketed as Warrior Shutter FZ-M), Fibershield V shutters and Fibershield H shutters have been supplied for the project referenced below.

Product	FRL	Location	Compliance
Warrior FZ shutters (Fyrehalt V)	-/30/-	Zone B, Zone C, Zone D, Zone E and Zone F	AS3959 Section 9
Fibershield V	-/30/-	Zone C – Zone B Courtyard, Zone G Canteen, Zone F (roof)	AS3959 Section 9
Fibershield H	-/30/-	Zone B – Fishpond (roof)	AS3959 Section 9

All facades and elevations have been treated with the bushfire protection methods summarized in Section 5 of Grubits Fire Safety Strategy Report 2018/321 R1.1 with the products in the above table at:

### Lindfield Learning Village

#### Stage One Building Works

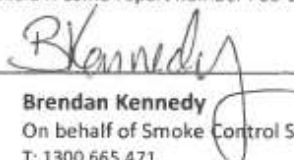
#### 100 Eton Road Lindfield NSW

As far as can be ascertained the product noted above and installed by Smoke Control Systems (as per the tested units and in strict accordance with the manufacturer's instructions) in accordance with all requirements of the Above Fire Safety Strategy Report and are compliant to Bush Fire Shutter Standards and project specifications:

AS3959 Part 9 Flame Zone Requirements for a protection level equal to AS1530.4 and a proven performance level greater than an FRL of -/30/-.

The above installed shutter products are compliant for Bushfire applications designated in the standard and qualified under section 9.1 General BAL FZ for their specific applications as noted below:  
Where the building has been assessed under Section 2 as BAL-FZ and the building or (exposed façade) has been determined to have a set back distance of 10 meters or greater from classified vegetation.

Approvals evidencing compliance to the required performance levels noted above are Fyrehalt: CSIRO report number FSV1465 (FRL -/120/-); Fibershield V: CSIRO report number FCO-2730 (FRL -/120/-); Fibershield H CSIRO report number FCO-2534 (FRL -/120/-).

  
Brendan Kennedy  
On behalf of Smoke Control Systems Pty Ltd  
T: 1300 665 471

[www.smokecontrol.com.au](http://www.smokecontrol.com.au)  
[www.warriorwindows.com.au](http://www.warriorwindows.com.au)





**FIRE DOORS – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone B-G Level 5&6 , Zone B level 4

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Fire doors	BCA2016 Specification C3.4, Clause C3.5 & AS 1905.1-2015.

Exclusions (if any): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Contractor Licence No. 164318C  
\_\_\_\_\_  
\_\_\_\_\_

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Glenn Smith  
Company: Knowit Constructions Pty Ltd  
Address: 4/32 Liney Avenue Clemton Park NSW 2206  
Phone No.: 02 9787 4207  
Signature:  Date: 16/01/2019





## REMEDIAL BUILDING SOLUTIONS

ABN: 32 059 519 541

17/11-21 Underwood Rd, Homebush, NSW 2140

02-9746 7133, 02-9746 7166

### BUSHFIRE CONSTRUCTION – BUILDING FAÇADE – INSTALLATION CERTIFICATE

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 – Partial School – Zone B - G

I hereby certify that:

- Protector Weep Hole Screens have been installed to the existing masonry walls to exterior elevations of the building including roof areas to comply with sections 3 and 9 (Bush Fire Attack Level (BAL) Flame Zone (FZ) of Australian Standard AS 3959:2009 Construction of buildings in bush fire prone areas or NASH Standard (1.7.14 updated) National Standard Steel Framed Construction in Bushfire Areas – 2014.
- High Performance Bushfire Weepa plugs have been installed to the new masonry work to the roof and balcony areas where the damp proof course has been replaced. The High Performance Weepa plugs comply with Australian Standard AS 3959:2009 Construction of buildings in bush fire prone areas.
- Stainless Steel Ember Mesh Ultra has been install to the subfloor brick vents to Zone A building to comply with Australian Standard AS 3959:2009 Construction of buildings in bush fire prone areas.

Exclusions: All other external areas of the building outside the scope of works provided by Taylor

I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

- Associate Diploma in Applied Science (Building)
- Building Supervision License
- 25 years' experience

The information contained in this statement is true and accurate to the best of my knowledge.

**Name:** CON ZARAFETAS

**Company:** CRBS

**Address:** 17/11-21 Underwood Rd Homebush 2140

**Phone No:** 9746 7133

**Signature:**

**Date:** 18/01/2019

Conrina Constructions Pty Ltd  
(Trading as Conrina Remedial Building Solutions)

**MECHANICAL VENTILATION – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School ; Zone B-G Level 5&6, Zone B & C Level 4

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Mechanical ventilation	<ul style="list-style-type: none"> <li>• BCA2016 Clause E2.2(b)</li> <li>• BCA2016 Clause F4.5 (In accordance with Erbas Mechanical consultant's Design)</li> <li>• Fire Dampers BCA 2016 clause C3.15, Specification C3.15, Clause E.2.2, AS/NZ1668.1-2015, AS1682.1&amp;2.</li> <li>• Smoke Dampers in accordance with BCA2016 Clause E2.2(b)</li> <li>• AS 1668.2-2012 (ventilation of rooms)</li> <li>• BCA2016 Part J5 (air-conditioning and ventilation systems)</li> <li>• BCA2016 Spec. C1.10 - Rigid and flexible ductwork comply with the fire hazard properties set out in AS 4254 Parts 1 and 2.</li> </ul>

Exclusions (if any): \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

B.E (Hons) with 15years experience in mechanical services & Director – Climatech NSW Pty Ltd

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name of Certifier: Marc De Stoop BE (hon) | Managing Director Climatech Group  
 Contractor License: 230653C Expiry Date: 03/11/2019  
 Company: Climatech NSW Pty Ltd  
 Address: 100 Queen Street, Beaconsfield.  
 Phone No. 9698 0033 Fax No. -



Signature

A/E Aust 268653

Date

24th JAN 2018


Installation Certificate – Mechanical ventilation

Page 1 of 1

1/25/2019

Aconex

Lindfield Learning Village  
100 Eton Road  
Lindfield  
NSW 2070 Australia



MAIL TYPE  
Builder's Advice

MAIL NUMBER  
Taylor-BA-000052

REFERENCE NUMBER  
Taylor-BA-000052

Certification that Works meet Report 2018/321 R1.2

From

Mark Reynolds - Taylor Construction Group

To

Harriet Peel - Stephen Grubits & Associates

Cc (6)

Mr Greg Roberts - Fire Fighting Solutions  
Jim Lewis - NSW Department of Education  
Rebecca Willott - NSW Department of Education (rebecca.willott@det.nsw.edu.au)  
Mr Chris Laity - Savills Project Management Pty Ltd  
Mr Dean Fondas - Taylor Construction Group  
Mr Daniel Diab - Taylor Construction Group

Sent

Friday, 25 January 2019

MESSAGE

Harriet,

I confirm as a Senior Project Manager with 32 years experience that the trailing Bushfire Safety Measures have been installed in accordance with the requirements of Stephen Grubits & Associates Roof & Facade Bushfire Measures Report 2018/321 R1.2

1. Installation of fire doors to flame zone areas
2. Installation of the mesh
3. Roofing protection
4. Installation of bushfire shutters – certificate attached
5. Installation of protection to weepholes –

Drencher protection certification will be issued separately as I am not qualified. Photos of the installed system attached. Greg please issue certificate via this strand.

Please advise if this is not sufficient for your report to be issued.

<https://au1.aconex.com/Logon?Action=View&ENTITY=MAIL&ID=1538626747&USERID=1476710163>

1/1

## FIRE SUPPRESSION TO PUMP ROOM – INSTALLATION CERTIFICATE

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
DRENCHER PROTECTION TO PUMP ROOM WALLS	Tyco Data Sheet (Appendix E) Section 2 in AS 2118.2-2010 AS 2419.1-2005 Stephen Grubits & Associates Report 2018/321 R1.2 for Bush Fire Measures
Sprinkler Protection to Pump Room	AS 2118.1-2017 Stephen Grubits & Associates Report 2018/321 R1.2 for Bush Fire Measures

Exclusions (if any): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Water Plumber ( Fire Sprinkler Systems)

Contractor Licence No : 105688C

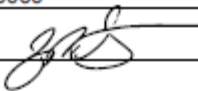
- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Greg Roberts  
 Company: Fire Fighting Sololutions  
 Address: 80-72 Unit 33 Percival St Smithfield

Installation Certificate – Drencher protected glazing

Page 1 of 2



Phone No.:	0401749069		
Signature:		Date:	25-1-2019

Installation Certificate – Drencher protected glazing

Page 2 of 2



Jim Lewis  
(Director) Capital Works Services  
NSW Department of Education School Infrastructure  
Level 8, 259 George Street  
SYDNEY, NSW 2000

Our Ref: 20191317

Date: 24 January 2019

**Bushfire Mitigation Certificate of Compliance - Asset Protection Zone Fuel Management Standards and Vehicular Access for Phase 1 Lindfield Learning Village SSD 8114**

This letter provides bushfire mitigation confirmation and certification for the Phase 1 Lindfield Learning Village (LLV) development, with respect to the following items:

1. Asset Protection Zone (APZ) fuel load management and structure are implemented to the minimum acceptable standards for Inner Protection Areas as detailed in the Conditions of Consent (SSD 8114), NSW RFS Planning for Bushfire Protection (2006) and NSW RFS Standards for Bushfire Protection (2005), The LLV Bushfire Threat Assessment (Blackash 2018), and the Landscape Management Plan (Kleinfelder 2018); and
2. Vehicular accessibility provided to the acceptable standards as detailed in the Conditions of Consent (SSD 8114), NSW RFS Planning for Bushfire Protection (2006), and the Access Plan (ARUP 2018).

The APZ has been implemented by the contractor Aura Tree Services and supervised by Kleinfelder (project ecologist) for the period of APZ clearing works. The APZ extends to the limits as defined by property boundaries and the development consent conditions. APZ management has achieved:

- A canopy cover not less than 7% and not exceeding 15%, whilst retaining the required number of canopy trees.
- Canopy connectivity from all directions between bushfire hazard on external landholdings toward the buildings has been separated by more than 2m.
- Shrub layer has been predominantly removed.

95 Mitchell Road, Cardiff, NSW 2285 t | 02 4949 52500 www.kleinfelder.com



- Ground cover has been managed to less than 100mm across the APZ. The ground fuel management has retained root systems in-situ, as directed in the Landscape Management Plan. The APZ takes advantage of exposed sandstone areas, further reducing ground fuel loading.
- No gardens/fuel loads are adjacent to buildings or vulnerable building elements such as windows.

Access within the subject site has been modified (extended) to the specifications detailed in the development consent conditions and ARUP (2018) site drawings:

- The road widths have been confirmed as 8m wide within the school landholding.
- The fire trail to the south of the buildings has been installed and meets the minimum standards for fire trails including width and height clearances, grade and turning capacity.

For any queries regarding this correspondence please contact Dan Pedersen on 02 4949 5200.

Yours sincerely  
Dan Pedersen BSc, EngTech GFireE



BPD-PA-16293

Lew Short  
Principal Blackash Bushfire Consulting  
BPAD Level 3 BPAD 16373

**APPENDIX D. ZONE E MUSIC ROOMS CERTIFICATION**

BAL-FZ Shutters Vegetation =&gt;10M from Façade

COC: C1286

## Certificate of Compliance

### Smoke Control Systems P/L Certify:

The following BAL FZ Motorised FyreHalt Shutters (also marketed as Warrior Shutter FZ-M), Fibershield V shutters and Fibershield H shutters have been supplied for the project referenced below.

Product	FRL	Location	Compliance
Warrior FZ shutters (Fyrehalt V)	-/30/-	Zone B, Zone C, Zone D, Zone E and Zone F	AS3959 Section 9
Fibershield V	-/30/-	Zone C – Zone B Courtyard, Zone G Canteen, Zone F (roof)	AS3959 Section 9
Fibershield H	-/30/-	Zone B – Fishpond (roof)	AS3959 Section 9

All façades and elevations have been treated with the bushfire protection methods summarized in Section 5 of Grubits Fire Safety Strategy Report 2018/321 R1.1 with the products in the above table at:

### Lindfield Learning Village

#### Stage One Building Works

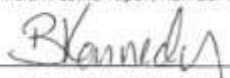
#### 100 Eton Road Lindfield NSW

As far as can be ascertained the product noted above and installed by Smoke Control Systems (as per the tested units and in strict accordance with the manufacturer's instructions) in accordance with all requirements of the Above Fire Safety Strategy Report and are compliant to Bush Fire Shutter Standards and project specifications:

AS3959 Part 9 Flame Zone Requirements for a protection level equal to AS1530.4 and a proven performance level greater than an FRL of -/30/-.

The above installed shutter products are compliant for Bushfire applications designated in the standard and qualified under section 9.1 General BAL FZ for their specific applications as noted below: Where the building has been assessed under Section 2 as BAL-FZ and the building or (exposed façade) has been determined to have a set back distance of 10 meters or greater from classified vegetation.

Approvals evidencing compliance to the required performance levels noted above are Fyrehalt CSIRO report number FSV1465 (FRL -/120/-); Fibershield V: CSIRO report number FCO-2730 (FRL -/120/-); Fibershield H CSIRO report number FCO-2534 (FRL -/120/-).



**Brendan Kennedy**  
On behalf of Smoke Control Systems Pty Ltd  
T: 1300 665 471  
[www.smokecontrol.com.au](http://www.smokecontrol.com.au)  
[www.warriorwindows.com.au](http://www.warriorwindows.com.au)





## FIRE DOORS – INSTALLATION CERTIFICATE

Project Name:	Lindfield Learning Village – Phase 1
Address:	100 Eton Road, Lindfield
Part of Building to be certified:	Phase 1 - Partial School Zone-E Level 4

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Fire doors	BCA2018 Specification C3.4, Clause C3.5 & AS 1605.1-2015.
External solid doors - to be replaced with doors achieving FRL -/30/- OR doors meeting AS 1530.8.2.	Stephen & Grubbits Report 2018/321 R1.2.

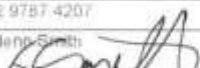
Exclusions (if any): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations:

Contractor Licence No. 164318C  
 \_\_\_\_\_  
 \_\_\_\_\_

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Glenn Smith  
 Company: Knowit Constructions Pty Ltd  
 Address: 4/32 Liney Avenue, Clemton Park NSW 2206  
 Phone No.: 02 9787 4207  
 Signature:  Date: 14 February 2019

Installation Certificate – Fire Doors

Page 1 of 1



**REMEDIAL  
BUILDING  
SOLUTIONS**

ABN: 32 059 519 541  
17/11-21 Underwood Rd, Homebush, NSW 2140  
02-9746 7133, 02-9746 7166

### BUSHFIRE CONSTRUCTION – BUILDING FAÇADE – INSTALLATION CERTIFICATE

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 – Partial School – Zone E Level 4

I hereby certify that:

The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or System	Standards of Performance
<ul style="list-style-type: none"> <li>Protector Weep Hole Screens have been installed to the existing masonry walls to exterior elevations of the building including roof areas</li> <li>High Performance Bushfire Weepa plugs have been installed to the new masonry work to the roof and balcony areas where the damp proof course has been replaced</li> <li>Stainless Steel Ember Mesh Ultra has been install to the subfloor brick vents and to existing vents to Zones E Level 4</li> </ul>	<p>Sections 3 and 9 (Bush Fire Attack Level (BAL) Flame Zone (FZ) of Australian Standard AS 3959:2009</p> <p>Construction of buildings in bush fire prone areas or NASH Standard (1.7.14 updated) National Standard Steel Framed Construction in Bushfire Areas – 2014</p> <p>“Stephen Grubits &amp; Associates Report 2018/321 R1.2 for Bush Fire Measures”</p>

Exclusions: All other external areas of the building outside the scope of works provided by Taylor

I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

- Associate Diploma in Applied Science (Building)
- Building Supervision License
- 25 years' experience

The information contained in this statement is true and accurate to the best of my knowledge.

**Name:** CON ZARAFETAS  
**Company:** CRBS  
**Address:** 17/11-21 Underwood Rd Homebush 2140  
**Phone No:** 9746 7133

**Signature:** 

**Date:** 15/02/2019

**Conrina Constructions Pty Ltd**  
(Trading as Conrina Remedial Building Solutions)

**FIRE HAZARD PROPERTIES – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone E Level 4

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Ballast	a) In accordance with Stephen & Grubbits Report 2018/321 R1.2

Exclusions (if any): \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Waterproofing License 277672C

18+ Years as qualified waterproofing

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Adam Mansour

Company: The Superseal Group (NSW)

Address: 41/65 Marigold St Revesby NSW 2212

Phone No.: 9774 1004

Signature: \_\_\_\_\_ Date: 18/02/2019

**EMBER MESH – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone E Level 4

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
ember mesh protection for the roof fans / mechanical systems	SGA Bushfire Measures Compliance Report 2018/321 R1.2.

Exclusions (if any): \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

B.E (Hons) with 15 years experience in mechanical services & Director – Climatech NSW Pty Ltd

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Nahi Beaini BE (hon) |Director Climatech Group

Company: Climatech NSW Pty Ltd

Address: 100 Queen Street, Beaconsfield.

Phone No.: 9698 0033

Signature:  Date: 18/2/19

**APPENDIX E. AUDITORIUM AND ASSOCIATED AUXILLIARY AREAS INCLUDING PLANT ROOM**

Sedman Pty Ltd

ABN 330 758 39 738

Trading as

Tel: 02 9986 0844 Fax: 02 9986 0855

Email: [greg@nilfire.com.au](mailto:greg@nilfire.com.au)

Australia's No. 1 Fire Resistant Glazing Experts

Unit 11, J6 Jubilee Avenue

WARRIEWOOD NSW 2102

Web: [www.nilfire.com.au](http://www.nilfire.com.au)**CERTIFICATE NO. 1914E****Our Ref:**

2628

**Installed Date:**

18/1/2019 Taylor Construction

Level 13/157 Walker Street,  
North Sydney  
NSW, 2060**PREMISES: 100 ETON ROAD, LINDFIELD NSW 2070**

Fire windows as listed below were manufactured and installed in accordance with tested prototypes tested to the relevant Australian Standard

**Essential Service or Other Safety Measure****Relevant Standard or Performance****ZONE E**1 off 5440mm high x 2460mm wide Cease Fire Bal-FZ fire resistant door, highlight and sidelight glazing system *[Single hinged door with four off fixed highlights and one off sidelight]* (4E04)AS1530 Part 8.2 &  
AS3959 Section 9  
AS2047-1999  
AS1288-2006  
BCA Clause D2.19 (see Doma  
Certification attached)  
BCA Clause D2.21  
SGA Report 2018/321R1.2  
AS 1428.1**Date:** 21/1/19



Sedman Pty Ltd

ABN 330 758 39 738

Trading as

Tel: 02 9986 0844 Fax: 02 9986 0855

Email: [greg@nilfire.com.au](mailto:greg@nilfire.com.au)

Australia's No. 1 Fire Resistant Glazing Experts

Unit 11, J6 Jubilee Avenue

WARRIEWOOD NSW 2102

Web: [www.nilfire.com.au](http://www.nilfire.com.au)

---

**Greg Sedman**

**Position: Director**

## FIRE DOORS – INSTALLATION CERTIFICATE

Project Name:	Lindfield Learning Wings – Phase 1
Address:	100 Eton Road, Lindfield
Part of Building to be certified:	Phase 1 - Parula Street Auditorium & Zone F Level 4

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Fire doors	BCA2015 Specification C3.4, Clause C3.5 & AS 1905.1:2015
External solid doors to be replaced with doors achieving FRU-30/-40R doors passing AS 1570.1:2015	Stephen & Grubbits Report 2018/321 R1.2

Exclusions (if any): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards referenced above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations:

Contractor Licence No. 1043180  
 \_\_\_\_\_  
 \_\_\_\_\_

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Glenn Smith  
 Company: Knowit Constructions Pty Ltd  
 Address: 4/32 Liney Avenue, Glenfern Park NSW 2206  
 Phone No.: 02 9767 4297  
 Signature:  Date: 20 February 2018

Installation Certificate – Fire Doors

Page 1 of 1





**REMEDIAL  
BUILDING  
SOLUTIONS**

ABN: 32 059 519 541  
17/11-21 Underwood Rd, Homebush, NSW 2140  
02-9746 7133, 02-9746 7166

### BUSHFIRE CONSTRUCTION – BUILDING FAÇADE – INSTALLATION CERTIFICATE

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 – Partial School – Auditorium & Zone F Level 4

I hereby certify that:

The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or System	Standards of Performance
<ul style="list-style-type: none"> <li>Protector Weep Hole Screens have been installed to the existing masonry walls to exterior elevations of the building including roof areas</li> <li>High Performance Bushfire Weepa plugs have been installed to the new masonry work to the roof and balcony areas where the damp proof course has been replaced</li> <li>Stainless Steel Ember Mesh Ultra has been install to the subfloor brick vents and to existing vents to Zones E Level 4</li> </ul>	<p>Sections 3 and 9 (Bush Fire Attack Level (BAL) Flame Zone (FZ) of Australian Standard AS 3959:2009</p> <p>Construction of buildings in bush fire prone areas or NASH Standard (1.7.14 updated) National Standard Steel Framed Construction in Bushfire Areas – 2014</p> <p>“Stephen Grubits &amp; Associates Report 2018/321 R1.2 for Bush Fire Measures”</p>

Exclusions: All other external areas of the building outside the scope of works provided by Taylor

I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

- Associate Diploma in Applied Science (Building)
- Building Supervision License
- 25 years' experience

The information contained in this statement is true and accurate to the best of my knowledge.

**Name:** CON ZARAFETAS

**Company:** CRBS

**Address:** 17/11-21 Underwood Rd Homebush 2140

**Phone No:** 9746 7133

**Signature:** 

**Date:** 07/03/2019

**Conrina Constructions Pty Ltd**  
(Trading as Conrina Remedial Building Solutions)





ABN 64 126 450 762  
PO Box 299  
Riverwood 2210  
**Ph: 0404 519 996**  
Fax: 02 9584 3188

Email: [leon@totalfirestopping.com.au](mailto:leon@totalfirestopping.com.au)  
Web: [www.totalfirestopping.com.au](http://www.totalfirestopping.com.au)

### FIRE SEALS PROTECTING MISCELLANEOUS GAPS JOINTS AND PENETRATIONS IN FIRE RESISTING COMPONENTS OF THE BUILDING - INSTALLATION CERTIFICATE

**Project:** UTS Lindfield  
**Address:** 100 Eton Rd Lindfield NSW 2070

I hereby certify that:

The works have been inspected during construction and have been completed in accordance with the design, specifications and the nominated Standards of Performance.

Measure and/or system	Standards of Performance
FIRE SEALS PROTECTING MISCELLANEOUS GAPS JOINTS AND PENETRATIONS IN FIRE RESISTING COMPONENTS OF THE BUILDING	BCA 2016 Clause C3.15, Specification C3.15, Australian Standards AS1530.4-2014 & AS4072.1-2005  <i>As per</i> <b>PASSIVE FIRE REGISTER UTS LINFIELD TAYL</b> <b>OR_Rev_01</b>

Product	Number	Location	Rating
PROMATECT®-L500	N/A	Level 04 and Level 05	~120/120
Promat AN Acrylic Sealant	N/A	Level 04, Level 05 and Level 06	~120/120

I am a properly qualified person and have a good working knowledge of the relevant codes and standards referenced above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations: Fire Protection Accreditation Scheme (FPAS) Accredited  
Passive Fire Protection Inspector, Diploma of Building Surveying, Certificate II in Fire Protection  
Inspection and Testing and 10 years experiences in Passive Fire Protection Industry

The information contained in this statement is true and accurate to the best of my knowledge.

Name of Certifier: Shiliang Chen  
Company: Total Fire Stopping Pty Ltd  
Address: PO Box 299 Riverwood NSW 2210  
Phone No. 0404 519 996 Fax No. N/A

  
Signature \_\_\_\_\_ Date 22/01/2018

TOTAL FIRE STOPPING PTY LTD

## MECHANICAL SERVICES – INSTALLATION CERTIFICATE AUTOMATIC SMOKE EXHAUST SYSTEM & VENTILATION

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone F Level 4 & Auditorium

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Automatic smoke exhaust system to Performance Theatre	<ul style="list-style-type: none"> <li>• BCA2016 NSW Table E2.2b, Specification E2.2b &amp; AS/NZS1668.1-2015</li> <li>• Stephen Grubits &amp; Associates Report 2018/321 R1.2 for Bush Fire Measures</li> </ul>
Mechanical ventilation	<ul style="list-style-type: none"> <li>• BCA2016 Clause E2.2(b)</li> <li>• BCA2016 Clause F4.5 In accordance with Erbas Mechanical consultant's Design</li> <li>• AS 1668.2-2012 (ventilation of rooms)</li> <li>• BCA2016 Part J5 (air-conditioning and ventilation systems)</li> <li>• BCA2016 Spec. C1.10 - Rigid and flexible ductwork comply with the fire hazard properties set out in AS 4254 Parts 1 and 2.</li> </ul>

Exclusions (if any):

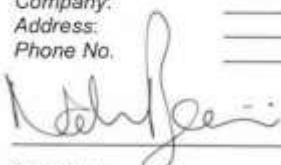
- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

B.E (Hons) with 15 years experience in mechanical services & Director – Climatech NSW Pty Ltd

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name of Certifier: Nahi Beaini BE (hon) (Director Climatech Group)  
 Contractor License: 230653C Expiry Date: 03/11/2019  
 Company: Climatech NSW Pty Ltd  
 Address: 100 Queen Street, Beaconsfield.  
 Phone No. 9698 0033 Fax No. -

  
 Signature

01/03/2019  
 Date

**FIRE HAZARD PROPERTIES – INSTALLATION CERTIFICATE**

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone F & Auditorium

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
Ballast & Pavers	a) In accordance with Stephen & Grubbits Report 2018/321 R1.2

Exclusions (if any): \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Waterproofing License 277672C

18+ Years as qualified waterproofing

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Adam Mansour  
Company: The Superseal Group (NSW)  
Address: 41/65 Marigold St Rhodes NSW 2212  
Phone No.: 9774 1004  
Signature:  Date: 07/03/2019

### FIRE SEALS – INSTALLATION CERTIFICATE

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Zone F Level 4

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance and are installed in accordance with the manufacturer's instructions.

Measure and/or system	Standard of Performance
Fire seals protecting openings in fire resisting components of the building. Systems installed:	BCA2016 Clause C3.15  Stephen Grubits & Associates Report 2018/321 R1.2 for Bush Fire Measures
Fire Damper - 4900'S' Slab Mounted Spring Curtain Test Report No SI 1864 & WT 58	
Fire Damper - 4900, 5000 & 5650 series Test report in Masonry & Stud Wall with metal expansion spacers EWFA No 27030-03.	
Fire Dampers - Exova 22774-05 - Climatech - Lindfield Learning Ctr	
Fire Rated Mastic - FCO 1579 - FyreFLEX FOA	
Fire Collars - FP 6202 - 2x13mm plaster - Maxilite, sealant, collars	
Fire Wrap - FCO-3024A - Insulated Penetrations	
Fire Rated Mastic – FAR 4849 - Fyreplex summary assessment	
Fire Pillows - FCO 1775 - Fyreplug Pillows Assessment	

Exclusions (if any): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

B.E (Hons) with 15 years experience in mechanical services & Director – Climatech NSW Pty Ltd

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Nahi Beaini BE (hon) | Director Climatech Group

Company: Climatech NSW Pty Ltd

Address: 100 Queen Street, Beaconsfield

Phone No.: 9698 0033

Signature:  Date: 01/03/19

BAL-FZ Shutters =&gt;10M from Façade

COC C1301

## Certificate of Compliance

### Smoke Control Systems P/L and Bushfire Control P/L Certify:

The following BAL FZ Motorised Thompson Fire Shutters have been supplied for the project referenced below.

Product	Test Criteria AS1530.4	Install Location Applicable externally or internally	Install Location	Qty	Width	Height
Thompson Metal Lath Motorised Roller Shutters	FRL -/30/-	Internally In Duct Isolating Mech systems intakes	Auditorium Roof	6	2000mm	1000mm
Thompson Metal Lath Motorised Roller Shutters	FRL -/30/-	Internally In Duct Isolating Mech systems intakes	Auditorium Roof	6	2500mm	1500mm

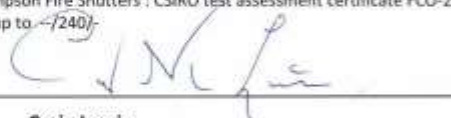
### Lindfield Learning Village Eton Road Lindfield NSW Stage One Works

The above products have been Installed by Smoke Control Systems (as per the tested units and in strict accordance with the manufacturer's instructions) and are compliant to :

AS3959 Part 9 Flame Zone Requirements for a protection level equal to AS1530.4 and a proven performance level greater than an FRL of -/30/-.

The above shutter products are suitable for Bushfire applications designated in the standard but qualified under section 9.1 General BAL FZ for their specific applications as noted below:  
Where the building has been assessed under Section 2 as BAL-FZ and the building or (exposed façade) has been determined to have a set back distance of 10 meters or greater from classified vegetation.

Product test and approval evidencing compliance to the required performance levels noted above is Thompson Fire Shutters : CSIRO test assessment certificate FCO-2577 re: AS1530.4 Pass criteria approved FRL up to -/240/-



**Craig Lewin**  
On behalf of Smoke Control Systems Pty Ltd  
& Bushfire Control Pty/Ltd  
F: (02) 9648 4387  
[www.smokecontrol.com.au](http://www.smokecontrol.com.au)  
[www.warriorwindows.com.au](http://www.warriorwindows.com.au)





BAL-FZ Shutters Vegetation =&gt;10M from Façade

COC: C1286

## Certificate of Compliance

### Smoke Control Systems P/L Certify:

The following BAL FZ Motorised FyreHalt Shutters (also marketed as Warrior Shutter FZ-M), Fibershield V shutters and Fibershield H shutters have been supplied for the project referenced below.

Product	FRL	Location	Compliance
Warrior FZ shutters (FyreHalt V)	-/30/-	Zone B, Zone C, Zone D, Zone E and Zone F	AS3959 Section 9
Fibershield V	-/30/-	Zone C – Zone B Courtyard, Zone G Canteen, Zone F (roof)	AS3959 Section 9
Fibershield H	-/30/-	Zone B – Fishpond (roof)	AS3959 Section 9

All facades and elevations have been treated with the bushfire protection methods summarized in Section 5 of Grubits Fire Safety Strategy Report 2018/321 R1-1 with the products in the above table at:

### Lindfield Learning Village

#### Stage One Building Works

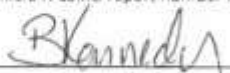
#### 100 Eton Road Lindfield NSW

As far as can be ascertained the product noted above and installed by Smoke Control Systems (as per the tested units and in strict accordance with the manufacturer's instructions) in accordance with all requirements of the Above Fire Safety Strategy Report and are compliant to Bush Fire Shutter Standards and project specifications:

AS3959 Part 9 Flame Zone Requirements for a protection level equal to AS1530.4 and a proven performance level greater than an FRL of -/30/-.

The above installed shutter products are compliant for Bushfire applications designated in the standard and qualified under section 9.1 General BAL FZ for their specific applications as noted below: Where the building has been assessed under Section 2 as BAL-FZ and the building or (exposed façade) has been determined to have a set back distance of 10 meters or greater from classified vegetation.

Approvals evidencing compliance to the required performance levels noted above are FyreHalt CSIRO report number FSV1465 (FRL -/120/-); Fibershield V; CSIRO report number FCO-2730 (FRL -/120/-); Fibershield H CSIRO report number FCO-2534 (FRL -/120/-).



**Brendan Kennedy**  
On behalf of Smoke Control Systems Pty Ltd  
T: 1300 665 471  
[www.smokecontrol.com.au](http://www.smokecontrol.com.au)  
[www.warriorwindows.com.au](http://www.warriorwindows.com.au)





ABLE DOOR SERVICES (NSW) PTY LTD  
507-509 Victoria St, Wetherill Park, NSW,  
2164  
Ph: (02)9757 1877 Fax: (02)9757 1652  
Email: doorservice@abledoors.com.au

**PROJECT: Taylor Constructions**

**100 Eton Rd Lindfield**

**PRODUCT:**

Able Door Services (NSW) Pty Ltd. certifies that the doors installed at the above project have been installed in accordance with our installation procedures and have been supported in a sound and secure manner to the building structure.

**WARRANTY:**

Able Door Services (NSW) Pty Ltd guarantees your Able Doors product for a period of twelve (12) months from the date of installation (24/1/19)

**SERVICE:**

Service other than for the work as above specified will be charged at current rates. Where repairs have been made or attempted by others, the manufacturer may decline responsibility. The guarantee excludes misuse or fair wear and tear. This warranty allows for all works to be carried out during the building industries normal working hours (8:00am to 4:00pm, Monday to Friday)

X

Gary Thomson  
Director





**986 ABLE DOOR SERVICES (NSW) PTY LTD**  
507-509 VICTORIA STREET, WETHERILL PARK NSW 2164  
PHONE: (02) 9757 1877 FAX: (02) 9757 1652  
[WWW.ABLEDORS.COM.AU](http://WWW.ABLEDORS.COM.AU)

**Re; All Doors**

**Site; Taylor Construction**  
**100 Eton Rd Lindfield**

**Dear Sir,**

**Re; Fire Rating Certificate for New Roller**  
**Shutters Installed at above premises**

**Certificate No; 018039**

**This is to certify that the Roller Shutters described above have been Manufactured and installed in accordance with Australian Standard 1530, methods for fire tests on building materials, components and structures, AS1530 part4-2005 and Australian Standard 1905, components for the protection of openings in fire-resistant walls, AS 1905-part 1-2005, fire resistant Roller Shutter. Compliance with C3.4+ Spec C3.4 of Building Code of Australia 2015 and Manufactures Specification. AS1905.2-2005 and AS1670.01-2015**

**The following criteria for fire resistance for period stated:-**

- **Structural Adequacy – Not applicable**

The following criteria for fire resistance for period stated:-

- Structural Adequacy – Not applicable
- Integrity – No failure at 240 minutes
- Insulation – 0 Minutes

The Roller Shutter installed are designed and manufactured as its Prototype tested and certified by CSIRO No 2067 as having a FRL of -240/- FRL

And therefore for the purpose of building regulations in Australia

Achieved a fire-resistance level (FRL) - /240/ FRL

is applicable for exposure to fire from either direction, CSIRO Certificate number 2067,

Yours faithfully,



GARY THOMSON

Director

GT/cb

### FIRE RESISTANCE – INSTALLATION CERTIFICATE

<b>Project Name:</b>	Lindfield Learning Village – Phase 1
<b>Address:</b>	100 Eton Road, Lindfield
<b>Part of Building to be certified:</b>	Phase 1 - Partial School : Auditorium & Zone F Level 4

I hereby certify that:

- a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standard of Performance
<p>Fire resistance of building elements</p> <p>The wall system above the fire door on D.T.4C01 located on Level 4 Zone C.</p>	<ul style="list-style-type: none"> <li>• The FRL's of all new building elements are in accordance with the FRL's detailed in the Table 3 of BCA Specification C1.1 for a building of Type A construction.</li> <li>• The flooring and floor framing of the new lift pits are non-combustible.</li> <li>• Internal fire-rated walls extend to— <ul style="list-style-type: none"> <li>(i) to the underside of the floor next above; or</li> <li>(ii) the underside of a roof complying with Table 3; or</li> <li>(iii) the underside of the non-combustible roof covering and, except for roof battens with dimensions of 75 mm x 50 mm or less or sarking-type material, must not be crossed by timber or other combustible building elements; or</li> <li>(iv) a ceiling that is immediately below the roof and has a resistance to the incipient spread of fire to the roof space above itself of not less than 60 minutes.</li> </ul> </li> <li>• Load bearing internal walls (including those part of a loadbearing shaft) and fire walls are of concrete or masonry.</li> <li>• Non-loadbearing internal walls required to be fire rated, as well as non-load bearing lift, ventilating, pipe, or similar shaft wall are of non-combustible construction.</li> </ul> <p>SGA bushfire measures compliance report 2018/321 R1.2.</p> <ul style="list-style-type: none"> <li>•</li> </ul>

Exclusions (if any): \_\_\_\_\_

- b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards references above. (My qualifications and accreditations are listed below)

*Relevant qualifications and accreditations:*

Contractor Licence NO. 302710C

Certificate III in wall and ceiling lining, NO 005392

- c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Michael Chen

Company: Auzoom Projects Pty Ltd

Address: Unit 27/2 Slough Ave, Silverwater NSW 2128

Phone No.: 02-8387 9259



Signature: \_\_\_\_\_ Date: 05/03/2019

## **APPENDIX F. AUDITORIUM AND ASSOCIATED AUXILLIARY AREAS INCLUDING PLANT ROOM PHOTOGRAPHS**