out of scope

From:

Rob Wilson

To:

"Kirsten Dell-Hartgers"; Garry Van der Krogt

Cc:

Margaret Waller; Les Wilson

Subject:

RE: Cashmere High - id 340 - monthly fire alarm and sprinklr testing

Date: Attachments: Monday, 11 February 2019 6:21:37 p.m.

Hi Kirsten,

This is not good, can you advise who did the report, AON, OR A Fire Engineer? and if ok supply us with a copy. You will recall we removed Wormald from the site to avoid and conflict while Aethon were on site and I have been told by Kane Lacey from Aethon that they were doing the monthlies on both systems, we offered to pay a reasonable sum for this service but have never been sent and invoice. When do Aethon vacate the site?

I have attached the latest annual and one 6 monthly inspection by Wormald, you will see they do not include either the fire or sprinkler systems.

I am of then opinion that the report needs to be examined by our fire alarm upgrade manager Garry van der Krogt who is based in our Chch office, as there is lot of inter company rivalry in this business, he would also need to see the fire reports and contracts etc that are or were in place for the work the report relates to and carry out a peer review. This is available under our Ministry contract at no cost to the school if the Ministry agrees.

Given the history of Council actions around the CPU and having a complaint BWOF for the other areas the Ministry may want to consider meeting with the Council to discuss, and that would be better than them finding out via other means, but I suggest Garry has a look at the report first. Garry attended a meeting last year with all the then associated parties involved at that time.

Cheers Rob

Rob Wilson

Contract Manager

s 9(2)(a) OIA

ARGEST Building & Compliance www.argest.com

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From: Kirsten Dell-Hartgers [mailto:dhk@cashmere.school.nz] Sent: Monday, 11 February 2019 5:33 PM

To: Rob Wilson

Cc: Margaret Waller; Les Wilson

Subject: Re: Cashmere High - id 340 - monthly fire alarm and sprinklr testing

Hi Rob

And so the saga of our fire alarm and sprinkler systems continues

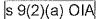
Today we received an independent report advising that significant areas of the schools buildings are not protected by the system. The report asserts poor contractor performance eg mis-programming, devices mis-labelled, default signals routinely ignored and control

unit doors left open to prevent the sounding of audible alarms.

Further, the report suggests that new fire alarm systems have been installed in positions which do not comply with the required standards (placed at greater than allowable distances from walls, and in areas which would not comply for coverage). It was noted that the new Science block has a Certificate for Public Use issued by the Christchurch City Council, despite the afore-mentioned faults.

This situation is unacceptable, and needs to be remedied urgently. I'm aware that the Principal, Mark Wilson, has forwarded the report to Margaret Waller at the Ministry.

Kind regards



Kirsten Dell-Hartgers Executive Officer

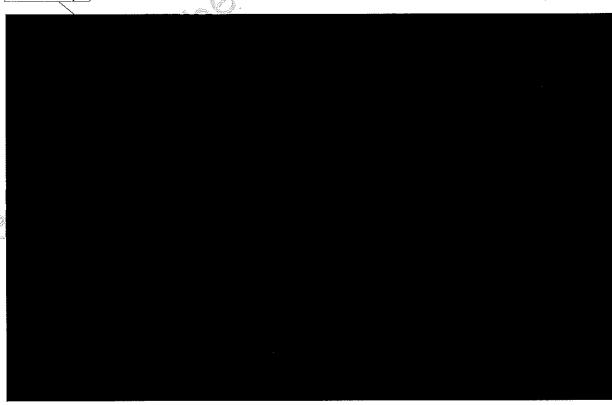
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out of scope



Mark Wilson

To:

Margaret Waller; Carmen Knobloch; Trevor Watt; wil@cashmere.school.nz; Kirsten Dell-Hartgers; Kellie

<u>Fenemor</u>

Subject:

Fwd: Fire Systems failures

Date: Attachments: Tuesday, 12 February 2019 8:36:46 a.m. leighs 2c74e907-1f9a-4888-86e5-6d1d8c557ac8.png

Hi again Margaret

Email below from FFP in response to Carmen's email FYI...

Nga mihi nui

Mark Wilson

Principal

Cashmere High School | Te Iringa O Kahukura

172 Rose Street

Christchurch 8024

P +64 3 332 9129 | F +64 3 332 9126 | E wsm@cashmere.school.nz

www.cashmere.school.nz



s 9(2)(a) OIA

----- Forwarded message --

From: Charlie Loughnan

Date: Mon, 11 Feb 2019 at 20:34 Subject: Fwd: Fire Systems failures

To: wsm@cashmere.school.nz <wsm@cashmere.school.nz>

Good evening Mark.

I am on the understanding that Aethon are engaged by Leighs to complete fire alarm works in the school and are maintaining the system to comply with the warranty period.

Much of the area currently not operating was completed by Leighs within the past 12 months and fire systems previously operating have been disabled due to faults which have been unresolved. The conduct of Leighs contractor in disabling parts of the alarm in these areas and other areas where works were not undertaken is an unacceptable practice in an occupied building, creating significant risks for the staff and students.

We can provide many examples of this if required.

Kind regards

Charlie Loughnan FFP Canterbury Ltd.

Sent from my phone. Please excuse my typos...

s 9(2)(a) OIA

----- Original message ----From: @leighsconstruction.co.nz>
Date: 11/02/19 5:51 PM (GMT+12:00)
To: Mark Wilson <wsm@cashmere.school.nz>, Margaret Waller
<Margaret.Waller@education.govt.nz>
Cc: Trevor Watt < athfieldarchitects.co.nz>, Carla Smith
<smc@cashmere.school.nz>, Charlie Loughnan < @leighsconstruction.co.nz>
@leighsconstruction.co.nz>

Subject: RE: Fire Systems failures

Hi Margaret and Trevor

Would you be able to advise on what faults (if any) have been found to be related specifically to our contract works as we would like to resolve those immediately.

With regards the comments related to A Block corridor my understanding is that the hoarding constructed complies, as there are no students through A2to A4, but could you request Beca Fire engineer to review and advise if anything needs to be altered?

Thanks

_s 9(2)(a) OIA

Project Manager



Leighs Construction Limited

Level 2, 219 High Street, Christchurch, 8011

PO Box 11191 | Christchurch, 8443

s 9(2)(a) OIA

Fr (

@leighsconstruction.co.nz

https://www.leighsconstruction.co.nz

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From: Mark Wilson < wsm@cashmere.school.nz > Sent: Monday, 11 February 2019 4:20 p.m.

To: Margaret Waller < Margaret, Waller@education.govt.nz >; @leighsconstruction.co.nz >	,
Cc: Trevor Watt < <u>@athfieldarchitects.co.nz</u> >; Carla Smith <smc@cashmere.school.nz>; ffp.co.nz; Kellie Fenemor</smc@cashmere.school.nz>	s 9(2)(a) OIA
<pre><fir@cashmere.school.nz> Subject: Fwd: Fire Systems failures</fir@cashmere.school.nz></pre>	Nation (Nation

Kia ora Margaret

Following up on my comments at our last PCG meeting we have now received the report (today) our school has initiated with FFP regards concerns with our school's fire alarm system... and it seems much worse than we thought.

In brief, almost half our school appears not to have fire alarms activated (i.e. coverage) and there are literally hundreds of faults in the system needing urgent attention.

While we as a school are keen to engage with FFP to start to get this resolved, I am aware this is more complex around the current contracts with Aethon. I would also question why the school could be required to organise or even financial pay for any of these identified issues when they are almost entirely the result of incomplete contract work related to the Ministry's CSR programme.

I will need to report this situation to our Board at the next meeting on Wednesday 20th February. I would also like to present to the Board with next step solutions to remedying this critical situation.

From our school's perspective I would like to request that you urgently engage with FFP to get these faults fixed and the school's fire alarm system fully activated across the school before we have a serious health and safety incident.

I look forward to your prompt reply to this situation.

Nga mihi nui

Mark Wilson

Principal

Cashmere High School | Te Iringa O Kahukura

172 Rose Street

Christchurch 8024

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----- Forwarded message -----

From: Kirsten Dell-Hartgers < dhk@cashmere.school.nz>

Date: Mon, 11 Feb 2019 at 16:07 Subject: Fwd: Fire Systems failures

To: Mark Wilson < wsm@cashmere.school.nz>

----- Forwarded message

From: Charlie Loughnan (@ffp.co.nz)

Date: Mon, 11 Feb 2019 at 15:11 Subject: Fire Systems failures

To: Les Wilson <wil@cashmere.school.nz>

Cc: Andrew Bryant @ffp.co.nz>

Good afternoon Les

Following our investigation of the alarm system last week, we have identified significant parts of the occupied school building are currently not protected by the fire alarm system. This prevents an alarm being detected in the buildings in order to start an evacuation, and prevents the operation of ancillary devices such as the releasing of held-open fire doors and shutting down of ventilation systems which would allow fire and smoke to spread through and beyond the firecells, and allowing smoke to obstruct egress paths and stairwells.

s 9(2)(a) OIA

We have examined the fire alarm control unit and the programming configuration and note that large wired sections were disconnected, and other areas have significant numbers of detectors have been disabled, or left in a 'fault' condition. Our examination of the site showed that fire systems have had their alarms disabled

(Corrective Education) and the entire fire alarm system was enabled into a "test" status preventing any operation of the fire system from calling the Fire Service. It appears that mis-programming has taken place and it is suspected that the devices may be mis-labelled and mis-programmed which would cause a device which has activated not to be able to be located. It is noted that there have been fire activations where the activated detector was not located, and it is likely that this is the cause.

The fire call on the alarm system on 3/2/19 had been attended by the contractor, but instead of restoring the system to normal condition once they had attended, the contractor placed the system in a test status, disabling the "Fire" signal to summon the brigade at that point for the entire alarm system. The system has still not be restored to normal signalling at the writing of this email, over a week later.

Investigation of the signals of the site through the fire monitoring contractor, ADT, show testing of the systems is incomplete for the previous 12 month period with only 5 occasions where a monthly test signal has been successfully sent in the previous 12 months, with testing paperwork on site conflicting these by only having as few as three tests conducted. Signals for Defects are routinely ignored by the contractor and daily "Off-Normal" defect signals are sent via email to the contractor's designated faults address every day, but not attended to.

Fire system control units have been left with their doors open to prevent the control units from sounding audible alarms and alerting occupants of the building around the control unit that there is a problem with the unit, Leaving the control unit door open on the main fire alarm system prevents ancillary services such as HVAC systems being shut down or fire doors being closed in an emergency. These failures have been witnessed during fire alarm activations.

Walking through the site it is also obvious that detectors on the fire alarm system have been installed in positions which do not comply with NZS 4512:2010, the Standard for Fire Alarm Systems in New Zealand. Detectors are placed at greater than allowable distances form walls, and in areas which would not comply for coverage for the Type 4 fire alarm system. The school should also address overall design issues such as the use of photoelectronic smoke detectors in chemistry laboratories which are highly likely to cause false alarms through the normal use of the classrooms. It is noted that the new Science block has a Certificate of Public Use issued by the Christchurch City Council despite the faults noted.

The Corrective Ed building had the alarms from the fire sprinkler system turned off. The system has had a consistent series of Defect signals detailing loss of pressure in the system and was not attended for at least 5 days before the pressure reached the point where it signalled the brigade with a fire call on 8/1/19. That fire call was not attended to for 13 hours. Once attended the system was left in Defect state, until again on 11/1/19 the system signalled Fire again. It was subsequently left in Defect for a week, and then has had daily occurrences of defect signals, every day since, as yet unresolved by the contractor. The system had an unapproved automatic jockey pump installed in November 2014 by Wormald, although this appears to have suffered a catastrophic failure at some stage and the system has been re-plumbed since and now cannot be correctly tested.

The attached plan shows the status of the fire alarm system from our visit last week. It is of most concern that the fire system includes fully occupied areas in two-storey buildings and includes young persons and people with special needs.

The fire contractor is sub-contracted to Leighs Construction. It is our suggestion that these matters are addressed with Leighs to resolve without delay as this is their issue and they, in conjunction with the school, should consult with the fire engineer to ensure that the engineer is satisfied with the protection of the occupants of the building throughout the site and specifically in areas where occupancy is not fire separated between construction areas and school-occupied spaces such as the ground floor of A Block. Noted that the restriction of access in the corridors of A block may significantly impact on the egress routes available from the classroom areas and may restrict occupancy of the remainder of the block with the single means of escape available.

Given the failings of the contractor to date, it is our recommendation that they operate in a fully informed manner to the school at all times, identifying the areas operational and disabled and any impairment is correctly notified through the use of notices to the school for their approval to disable parts of the system and through on-site notices on the control unit, both in accordance with Appendix K of NZS 4512:2010. These are standard practices in the fire industry and must be adhered to. It is also our recommendation that the site be fully surveyed by FFP to ascertain the current operational capacity of the alarm, and to identify any areas where remedial action is required. Any areas to be handed over should also be independently inspected prior to acceptance of the building by the school.

I would be pleased to meet with the school management or Board to discuss these matters in person and discuss a viable path forward for resolution of these matters.

Kind regards

CHARLIE LOUGHNAN

Corporate Services Manager



2 Halls Place

PO Box 22-189

Christchurch 8140

03 366 7889

Mark Wilson

To:

Kane Lacey

Cc:

Mark Riddell; Carmen Knobloch; Matt Russell; Kirsten Dell-Hartgers; Margaret Waller; Garry Van der Krogt;

Matthew Webby; Kellie Fenemor

Subject: Date: Re: Fire Alarm Update

Attachments:

Thursday, 14 February 2019 9:25:31 a.m. image001.png

Hi Kane

In the interests of health and safety, yes the school is happy for your staff to be working in S Block to get this work completed.

Please note that this assumes that your workers will not be working in active classrooms, will be seeking to minimise disruptions (e.g. noise) and keeping public spaces clear of hazards.

Nga mihi nui

Mark Wilson

Principal

Cashmere High School | Te tringa O Kahukura

172 Rose Street

Christchurch 8024

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www.cashmere.school.nz

s 9(2)(a) OIA

On Thu, 14 Feb 2019 at 09:15, Kane Lacey

@aethon.co.nz> wrote:

Hi All,

Yesterday we made good progress in isolating the issue in S block. We found the cause of the issue is an AZM module. This operates some of the heat detection in the S block roof space.

It wasn't practical to follow our original plan to re-run a temporary loop in S block roof space, due to the fact we haven't been able to physically locate the AZM module yet, meaning we couldn't get a new loop connected before the module.

Today we will find the AZM module in the roof space, disconnect and remove it, and then reboot the loop. This will leave only the S block ceiling space unprotected. I have already ordered a new AZM module, as soon as it arrives we will install. Expected time on this is 5 working days.

Can the school please let me know if you are happy with our staff working upstairs in the S block corridor today? If this is acceptable then I expect to be done with this works by 1700 today. Thanks, Kane Lacey Director s 9(2)(a) OIA W: aethon.co.nz Specialist Infrastructure, Expert Solutions

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Garry Van der Krogt

To:

"Kane Lacey"; Mark Riddell; Carmen Knobloch; Matt Russell; Mark Wilson; Kirsten Dell-Hartgers; Margaret

Waller; Matthew Webby; Kellie Fenemor

Subject: Date:

[SPF: Suspicious Sender] RE: Fire Alarm Update Thursday, 14 February 2019 9:28:15 a.m.

Attachments:

image003.png image004.png

S Block First Floor.pdf

Hi Kane,

Looking at S block asbuilt the logical location would be in the callpoint in the

Do you have these drawings?

Regards

Garry

Garry Van Der Krogt Fire Alarm and Compliance Services Manager PO Box 13324 Unit 2/433 St Asaph Street Christchurch

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From: Kane Lacey [mailto:

@aethon.co.nz]

Sent: Thursday, 14 February 2019 9:16 AM

To: Mark Riddell; Carmen Knobloch; Matt Russell; Mark Wilson; Kirsten Dell-Hartgers; Margaret

Waller; Garry Van der Krogt; Matthew Webby; Kellie Fenemor

Subject: Fire Alarm Update

Hi All.

Yesterday we made good progress in isolating the issue in S block. We found the cause of the issue is an AZM module. This operates some of the heat detection in the S block roof space.

It wasn't practical to follow our original plan to re-run a temporary loop in S block roof space, due to the fact we haven't been able to physically locate the AZM module yet, meaning we couldn't get a new loop connected before the module.

Today we will find the AZM module in the roof space, disconnect and remove it, and then reboot the loop. This will leave only the S block ceiling space unprotected. I have already ordered a new AZM module, as soon as it arrives we will install. Expected time on this is 5 working days.

Can the school please let me know if you are happy with our staff working upstairs in the S block

corridor today? If this is acceptable then I expect to be done with this works by 1700 today.

Thanks,

Kane Lacey

Director

P: ______

W: aethon.co.nz

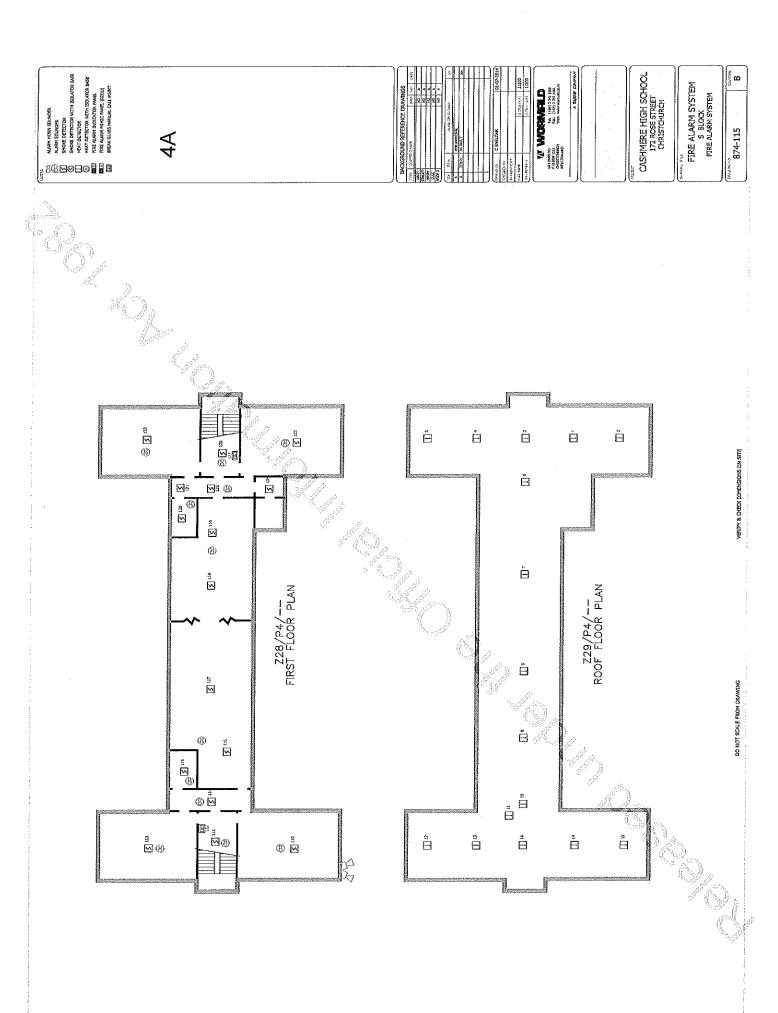
s 9(2)(a) OIA



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Kane Lacey

To: Cc: Kirsten Dell-Hartgers

Margaret Waller; Mark Wilson; Kellie Fenemor

Subject: Date:

Re: Cashmere high School - Recommended Procedure during the Fixing of the Fire Alarm System

Wednesday, 20 February 2019 2:15:03 p.m.

Attachments:

gnq.100agami image003.png image005.png

Hi Kirsten,

Correct, no need for this now the smoke detection is working in these classrooms.

Thanks,

Kane Lacey

Director

W: aethon.co.nz

s 9(2)(a) OIA

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From: Kirsten Dell-Hartgers <dhk@cashmere.school.nz>

Date: Wednesday, 20 February 2019 at 9:51 AM

To: Kane Lacey

@aethon.co.nz>

Cc: Margaret Waller Margaret.Waller@education.govt.nz>, Mark Wilson <wsm@cashmere.school.nz>, Kellie Fenemor <frr@cashmere.school.nz>

Subject: Re: Cashmere high School - Recommended Procedure during the Fixing of the Fire Alarm

System

Hi Kane

Thanks for this.

I presume it means there's no need for the stand-alone battery operated smoke detectors recommended by Fadi?

Kirsten

Kirsten Dell-Hartgers

Executive Officer

Cashmere High School | Te Iringa O Kahukura

www.cashmere.school.nz



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s 9(2)(a) OIA

On Wed, 20 Feb 2019 at 09:00, Kane Lacey <

@aethon.co.nz> wrote:

Hi All,

All the alarms are now working in S block.

The Caretakers shed is back online however it has a fault we need to investigate further, will look into this today and report.

There is still a number of faults on the panel from various small issues that we will fix over the next couple of days. Once the panel is back to normal with no faults we will test all the zones to ensure everything is working correctly and issue a survey report. I would estimate this will be provided sometime next week.

Thanks,

Kane Lacey

Director

—s 9(2)(a)∕Ø**I**A

W: aethon.co.nz



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From: Margaret Waller < Margaret. Waller@education.govt.nz >

Date: Tuesday, 19 February 2019 at 4:28 PM

To: Kane Lacey < @aethon.co.nz>, Kirsten Dell-Hartgers < dhk@cashmere.school.nz>
Cc: Kellie Fenemor < frr@cashmere.school.nz>, Mark Wilson < wsm@cashmere.school.nz>, Fadi

Jirjees @beca.com>, Carmen Knobloch s 9(2)(a) OIA @leighsconstruction.co.nz>, Matthew Webby

<mattheww@athfieldarchitects.co.nz>, '

@argest.com"

@argest.com>, David Hobern < <u>David.Hobern@education.govt.nz</u>>, Trevor Watt <trevor@athfieldarchitects.co.nz>, Les Wilson <wil@cashmere.school.nz>, Mathew Jarvis @leighsconstruction.co.nz> Subject: RE: Cashmere high School - Recommended Procedure during the Fixing of the Fire Alarm System Hi All I asked Fadi to call Kane to discuss technical solutions which he has summarised below. The temp smoke detectors will be in block S1-S3 & the caretakers shed if the problem is not found this afternoon/evening. Thanks Margaret From: Fadi Jirjees [mailto: Sent: Tuesday, 19 February 2019 2:51 p.m. To: Margaret Waller < Margaret. Waller@education.govt.nz> Cc: Andrew Jackson (CHC) @beca.com> Subject: Cashmere High - Fire Alarm Fault Hi Margaret, I have contacted Kane / Atheon who briefed me with the current status. • The source of the fault is somehow contained with a group of less than 20 detectors and manual The detectors range between heat in ceiling spaces and smoke in room space Atheon are working now on the heat detectors in ceiling space and have good confident that they will have them back in order tonight. So no further need to linear heat detector It could take another 2 -3 days to have the rest of the system operating What I recommended, that tomorrow morning and before 9am (the starting of the school) Atheon install stand-alone battery operated smoke detectors in the Science Building as a temporary measure. Detectors to cover the spaces affected by the fault. As I understood, there will about 10 or so of them. I see this is reasonable for this short period of time. Please let us know if you need more clarification. Kind Regards Fadi Jirjees Associate - Fire CPEng (Fire), IntPE, MIPENZ s 9(2)(a) OIA 267 High Street, Christchurch 8011 Margaret Waller | Delivery Manager - Contractor | CSR Programme s 9(2)(a) OIA

From: Kane Lacey [mailto:

Sent: Monday, 18 February 2019 1:33 p.m. To: Kirsten Deli-Hartgers < dhk@cashmere.school.nz ; Margaret Waller dhk@cashmere.school.nz ; Margaret dhkagaret.school.nz ; Margaret dhkagaret.school.nz ;	s 9(2)(a) OIA
Cc: Kellie Fenemor < frr@cashmere.school.nz ; Mark Wilson wsm@cash@cash@cashmere.school.nz ; Mark Wilson wsm@cash@cashmere.school.nz ; Mark Wilson wsm@cashmere.school.nz ; Mark Wilson wsm@cashmere.school.nz ; Mark Wilson wsm.ac.ashmere.school.nz ; Carmen Knobloch	onstruction.co.nz>; Matthew m; David Hobern ects.co.nz>; Les Wilson uction.co.nz>
Hi All,	
No update on status from last week - S1-S3 and caretakers shed are still is problem.	olated while we work on the
We were there on Friday and Saturday but unable to find the issue yet. It could take another day.	s a process of elimination, so
I will update again when fully resolved.	
Thanks,	
Kane Lacey Director	
P: s 9(2)(a) OIA M: W: aethon.co.nz	
Aethon Infrastructure	
Specialist Infrastructure, Expert Solution	ıs
Fire - Water - Transport - Electrical Learn More	»
From: Kirsten Dell-Hartgers < dhk@cashmere.school.nz>	. De la companya de l
Date: Monday, 18 February 2019 at 12:07 PM	
To: Margaret Waller < Margaret. Waller@education.govt.nz>	
Cc: Kane Lacey <@aethon.co.nz >, Kellie Fenemor < frr@cast Wilson < wsm@cashmere.school.nz >, Fadi Jirjees <@beca.c	
Wilson < <u>wsm@cashmere.school.nz</u> >, Fadi Jirjees < <u>@beca.c</u> @beca.c @leighsconstruction.co.nz , Matthew Webby	om>, Carmen Knobloch
<pre><mattheww@athfieldarchitects.co.nz>, " @argest.com"</mattheww@athfieldarchitects.co.nz></pre>	
@argest.com>, David Hobern < <u>David.Hobern@educati</u> <trevor@athfieldarchitects.co.nz>, Les Wilson <<u>wil@cashmere.school</u></trevor@athfieldarchitects.co.nz>	
, ,	TIME A LANCELLE AN ACTIONS

<mathew.jarvis@leighsconstruction.co.nz>

Subject: Re: FW: Cashmere high School - Recommended Procedure during the Fixing of the Fire Alarm System s 9(2)(a) OIA Hi Margaret and having checked my email this morning, I can't see an update from Kane on Friday or since. Do you know what protection was in place over the weekend? I've been advised this morning that the said areas are still unprotected. Kind regards Kirsten Dell-Hartgers **Executive Officer** Cashmere High School | Te Iringa O Kahukura www.cashmere.school.nz Error! Filename not specified. Please consider the environment before printing this email On Fri, 15 Feb 2019 at 07:38, Margaret Waller Margaret Waller @education.govt.nz> wrote: Hi Mark From this email I understand the bulk of the affected areas are back under proper fire protection. As Aethon will be working in the \$12-S3 classroom area we can attribute the continuous surveillance role to them. Kane can you please to give an update at lunchtime today so we can understand what buildings will still be at risk over the weekend & what hours your staff will be working over the weekend. Margaret Waller | Delivery Manager - Contractor | CSR Programme From: Kane Lacey [mailto @aethon.co.nz] s 9(2)(a) OIA Sent: Thursday, 14 February 2019 10:03 p.m. To: Kellie Fenemor < fr:@cashmere.school.nz; Mark Wilson < wsm@cashmere.school.nz> Cc: Margaret Waller < Margaret. Waller@education.govt.nz >; Carmen Knobloch @leighsconstruction.co.nz>; Matthew Webby mattheww@athfieldarchitects.co.nz>; Kirsten Dell-Hartgers < dhk@cashmere.school.nz>; @argest.com; Trevor Watt < trevor@athfieldarchitects.co.nz >; David Hobern <<u>David.Hobern@education.govt.nz</u>>; Les Wilson <<u>wil@cashmere.school.nz</u>>; Mathew Jarvis @leighsconstruction.co.nz>; Carmen Knobloch @leighsconstruction.co.nz>

Subject: Re: FW: Cashmere high School - Recommended Procedure during the Fixing of the Fire Alarm System

Hi All,

All blocks are now back online with the exception of S1-S3 classrooms, roof space and the caretakers shed. There is still a issue in the roof space here that we will need to investigate further tomorrow.

I would expect to have the system back to full operation by tomorrow evening.

Regards,

Kane

From: Kellie Fenemor < frr@cashmere.school.nz Sent: Thursday, February 14, 2019 1:49:26 PM

To: Mark Wilson

Cc: Margaret Waller; Kane Lacey; Carmen Knobloch; Matthew Webby; Kirsten Dell-Hartgers;

@argest.com; Trevor Watt; David Hobern; Les Wilson

Subject: Re: FW: Cashmere high School Recommended Procedure during the Fixing of the Fire Alarm System

Hi all,

As per discussions yesterday, we are expecting that Kane has notified the fire department via the appropriate form of the current issues with areas of the school isolated from our alarm system. We haven't received confirmation that it has been done. Margaret I'm not sure if you have.

If Kane is unable to fix the problem in S block (excluding the heat sensors in the roof) by the end of today, according to Fadi's email, staff will need to be informed. In this case, as Mark spoke to yesterday, we would need someone from the Ministry here with the appropriate level of knowledge to be able to appropriately and accurately explain the situation to our staff at 8:30am tomorrow during our staff briefing and to answer any questions they may have.

For your information, we have informed our insurers of our current predicament as discussed yesterday.

Kind regards, Kellie

On Thu, 14 Feb 2019 at 10:44, Mark Wilson <<u>wsm@cashmere.school.nz</u>> wrote:

Hi Margaret

Thanks for this email, however, from my understanding of the other emails our school currently does not need to implement any of these recommendations.

This is based on Kane confirmation that the school's fire alarm systems are now all operating, and the only area of concern (S B Lock ceiling isolated) is not a safety concern and will be resolved in five days time.

Nga mihi nui

Mark Wilson

Principal

Cashmere High School | Te Iringa O Kahukura

172 Rose Street

Christchurch 8024

P +64 3 332 9129 | F +64 3 332 9126 | E wsm@cashmere.school.nz

www.cashmere.school.nz

Error! Filename not specified.

On Thu, 14 Feb 2019 at 09:53, Margaret Waller < Margaret. Waller@education.govt.nz> wrote:

Hi Mark

Below is the procedures that Beca as fire engineers recommend to be followed until the fire alarms are up & running again.

Thanks Margaret

Margaret Waller | Delivery Manager - Contractor | CSR Programme

⊣s 9(2)(a) OIA

From: Fadi Jirjees [mailto:

@beca.com]

s 9(2)(a) OIA

Sent: Thursday, 14 February 2019 9:13 a.m.

To: Margaret Waller < Margaret. Waller@education.govt.nz>

Cc: Andrew Jackson (CHC)

@beca.com>

Subject: Cashmere high School - Recommended Procedure during the Fixing of the Fire Alarm

System

Hi Margaret,

Following our meeting this morning discussing the case around the recent faults in the fire alarm panel at Cashmere High School, we summarise below our understanding of its status and advise the school, and MoE, on the risks expected and the precautions that can be undertaken to sustain its operation until the faults are fixed.

2000

We have also read through FFP findings of their site investigation.

- The first faults signal was initiated on the 3rd February 2019
- The fault escalated in the days followed and resulted with Atheon isolating one major loop cable that covers Blocks A, the new Science Block and the far north west cluster of buildings leaving them with no coverage and connection to Fire Brigade.
- The Type 4 smoke detection system in these buildings is a core fire safety system for their escape routes design, i.e. number, length width etc., to achieve compliance with NZBC.
- Atheon have since been working to identify and fix faults but the large loop size and some outsourced equipment ordered have complicated and delayed the loop's fixing.
- Atheon advised this morning that they are trying a fast fix tonight which could bring 95% of the loop's peripherals within the occupied spaces back to life but not the heat detectors in the ceiling/roof spaces of Block S only

Our recommended actions toward this technical issue are classified as to the time taken to rectify the issue and as follows;

- 1. Short term isolation: This entails the system will be fixed within the next 24 hours
 - Notify EFNZ
 - Notify Insurer
 - Atheon to strictly follow the system's isolation and notification procedure given in Appendix K of NZS 4512
 - Update Staff with the case and inform them to be extra vigilant for any possible fire incident
- 2. Medium term isolation: This entails the fault can only be fixed over the weekend and be up and running before 8am Monday the 18 February 2019.
 - All the above in (1)
 - Engage a third party to provide continuous watching and security service for the affected blocks during occupation of their normal operation. The watching should come into play for Friday morning school hours and the weekend to avoid leaving the buildings unprotected during the weekend.
- 3. Long term isolation: This entails the system cannot be fixed before 8am Monday 18 February
 - All the above in (2)
 - Install temporary heat detectors, could be "linear wire" in concealed spaces and connect to fire alarm panel.

■ All other peripherals and interfaces with other building services are to be active and back to life after Wednesday's night trial

In this correspondence, we have not commented on other issues Chubb raised during their investigation, such as Athoen's level of workmanship, technical capability, resource capacity and site-wide systems' testing and maintenance duties during construction for site BWoF, which can be subject of a separate discussion with the Main Contractor.

Trust the above is satisfactory for the School to resume their operation during this time period.

Kind Regards

Fadi Jirjees

Associate - Fire

CPEng (Fire), IntPE, MIPENZ

Beca Ltd

267 High Street, Christchurch 8011

s 9(2)(a) OIA

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Kellie Fenemor

Deputy Principal

Cashmere High School | Te Iringa O Kahukura 172 Rose Street P+64 3 332 9129 | F+64 3 332 9126 | E frr@cashmere.school.nz www.cashmere.school.nz

Replace the Miller of the Control of

Kirsten Dell-Hartgers

To:

Margaret Waller

Subject: Date: Water treatment and fire protection Wednesday, 27 February 2019 10:45:42 a.m.

Hi Margaret

out of scope

With regard to the fire alarms, we have received a letter from NZ Fire Service about the unacceptable number of false callouts in the last 12 months, most recently the one on 31/12, two on 25/1 and one on 3/2. I haven't heard any more from Kane since last Wednesday when he said the remaining faults on the panel would be fixed over the next few days. Les advises there are still 100+ faults on the panel and as far as we're aware S block roof and the groundsman's shed are still isolated. In fact the smoke detector which was removed from the groundsman's shed has not been put back yet. I have also not heard whether the replacement AZM valve has been installed yet.

Are you confident the school is adequately protected? We have a health and safety committee meeting this afternoon and I'll need to provide an update on this.

Kind regards

Kirsten Dell-Hartgers

Executive Officer

s 9(2)(a) OIA

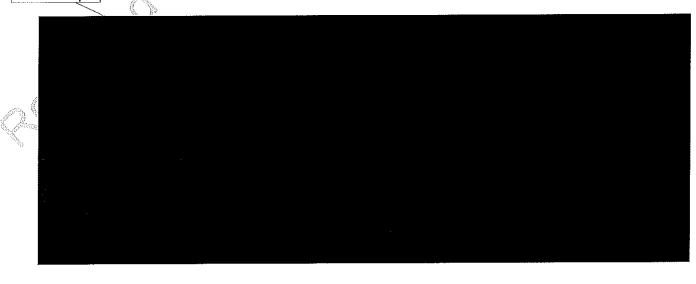
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out of scope



Kirsten Dell-Hartgers

To:

Margaret Waller

Cc:

Mark Wilson Fwd: False alarms

Subject: Date:

Thursday, 28 February 2019 1:55:48 p.m.

s 9(2)(a) OIA Hi Margaret

Further to the email I sent yesterday, we had another fire callout early this morning to the Conductive Ed building.

As Charlie from FFP

he contacted Les. Please

see his comments below which imply that the callout could have been prevented.

At what point can we look at engaging someone else to sort these issues out?

Kind regards

s 9(2)(a) OIA

Kirsten Dell-Hartgers

Executive Officer

Cashmere High School | Te Iringa O Kahukura

www.cashmere.school.nz



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---- Forwarded message ------

From: Les Wilson < wil@cashmere.school.nz>

Date: Thu, 28 Feb 2019 at 12:55

Subject: Fwd: False alarms

To: Kirsten Dell-Hartgers < DHK@cashmere.school.nz>

Forwarded message -----

From: Charlie Loughnan <

@ffp.co.nz> s 9(2)(a) OIA

Date: Thu, 28 Feb 2019 at 09:09

Subject: RE: False alarms

To: Les Wilson < wil@cashmere.school.nz >

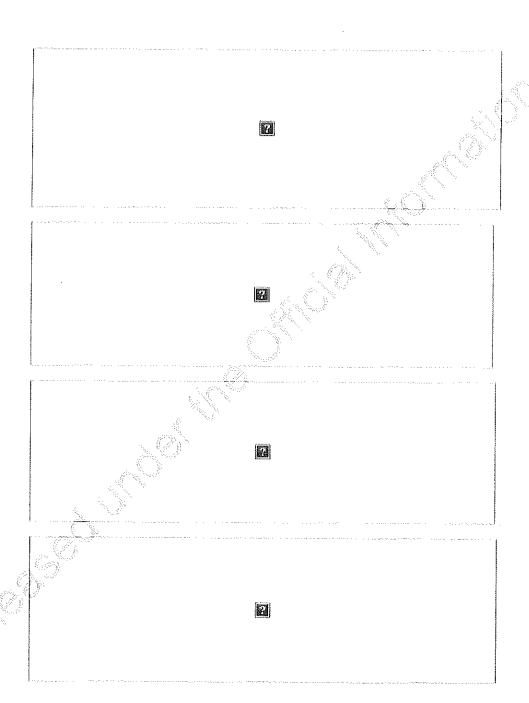
Thanks Les.

but I am sure you have had better mornings.

What I can tell you is that although this was vehemently denied by Aethon in the meeting, the sprinkler system has been sitting in and out of a low pressure defect and this has been emailed to them by ADT every day at

least twice a day, every day this month (and I have only looked at this month). I have looked through the records this morning to confirm this. When we sat in the meeting I did advise they needed to check this because it will activate again as a cold morning hits, and I think today you have got a cold enough morning.

I note they isolated the system on both 19 and 20 Feb, but did not fix the defect at the time. Noted no test signals recorded on the system this month. The OFF NORMAL signal is a reminder signal to advise that the system is in defect – defect signals are required to be responded to "without delay" so we would expect to be on site within the hour to investigate a defect. Noted they have not responded to any of these (apart from the 19th and 20th) to prevent the fire call.



Good luck.	
From: Les Wilson [mailto:wil@cashmere.school.nz] Sent: Thursday, 28 February 2019 7:04 a.m. To: Charlie Loughnan < Charlie@ffp.co.nz> Subject: Re: False alarms	
S 9(2)(a) OIA Hi Charlie Yes another one	
Les s 9(2)(a) OIA	
Good luck. Charlie From: Les Wilson [mailto:wil@cashmere.school.nz] Sent: Thursday, 28 February 2019 7:04 a.m. To: Charlie Loughnan < Charlie@ffp.co.nz> Subject; Re: False alarms S 9(2)(a) OIA Hi Charlie Yes another one Conductive ed sprinkler system again	

s 9(2)(a) OIA

Hi Les. Another false alarm this morning

I hope all is going ok.

Let me know if you need any further oversight here.

Kind regards

Charlie Loughnan

FFP Canterbury Ltd

Sent from my phone. Please excuse my typos

Manish Kumar

To:

Rob Wilson; Katerina Beattie; "Simeon Wilson"

Cc:

"Trevor Watt"; Matthew Webby; Hayden Westbury; Garry Van der Krogt; Carmen Knobloch; "Kellie Fenemor";

Kirsten Dell-Hartgers; Les Wilson

Subject:

RE: Cashmere High School - Fire Services Engagement COUNCIL PHONE CALL UPDATE

Date:

Tuesday, 9 July 2019 2:17:56 p.m.

Attachments:

image005.png image001.png Letter for Co ED.pdf Preesure test 6 july.pdf Pressure test 9 july.pdf Commissioning check sheet.pdf Sprinkler system monthly test.pdf

Hi Rob & Kat

Please find attached our assessment for sprinkler system to Co ED building.

Please fell free to contact if any further query.

Regards

Manish Kumar Ph: 021 08182833

Email: manish@southpacificfire.co.nz

Address: Unit 2, 328 Tuam Street, Christchurch 8011 PO Box 10196, Philipstown, Christchurch 8145

(MBM Fire Protection, part of South Pacific Fire Protection Group)





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From:

@argest.com>

Sent: Thursday, 4 July 2019 1:45 PM

To: 'Katerina Beattie' <Katerina.Beattie@education.govt.nz>; 'Simeon Wilson'

@OptimusFire.co.nz>; Manish Kumar < Manish@southpacificfire.co.nz>

s 9(2)(a) OIA cc: 'Trevor Watt' < trevor@athfieldarchitects.co.nz>; Matthew Webby

<mattheww@athfieldarchitects.co.nz>; Hayden Westbury

@argest.com>; Garry Van

@argest.com>; Carmen Knobloch der Krogt

@leighsconstruction.co.nz>; 'Kellie Fenemor' <frr@cashmere.school.nz>;

Kirsten Dell-Hartgers <dhk@cashmere.school.nz>; Les Wilson <wil@cashmere.school.nz>

Subject: RE: Cashmere High School - Fire Services Engagement COUNCIL PHONE CALL UPDATE

Hello all,

I have just had a phone call from the Council, they are going to send me an email asking that the 7 bold items are completed by Friday the 12th, once they have that and a statement saying the systems are compliant and operational (from an IQP) they will advise that the RIL/BWOF as already

issued is ok, that will enable them to process the CPU application, so no other party need to approach the Council at all.

s 9(2)(a) OIA

Cheers Rob

Rob Wilson Contract Manager

ARGEST Building & Compliance www.argest.com

From: Katerina Beattie [mailto:Katerina.Beattie@education.govt.nz]

Sent: Thursday, 4 July 2019 11:47 AM **To:** 'Simeon Wilson'; 'Manish Kumar'

Cc: 'Trevor Watt'; Matthew Webby; Hayden Westbury; Garry Van der Krogt; Rob Wilson; Carmen

Knobloch; 'Kellie Fenemor'; Kirsten Dell-Hartgers; Les Wilson **Subject:** Cashmere High School - Fire Services Engagement

Hi Simeon and Manish,

Thanks for your time today to go through the outstanding issues around the BWOF for CHS. I have attached the report from Argest and also the previous letter from Beca regarding the sprinkler system in Conductive Ed.

As mentioned by Garry, he will send through all other information to assist in the programming/as builts of the current site.

Additionally if you could follow up with the Council for us on their requirements for the BWOF and the likelihood of gaining this on completion of the bold items would be great.

I will forward through an engagement contract as soon as possible to complete these works. Please let me know if there is anything else from the MoE side that you may need.

Thanks

s 9(2)(a) OIA

Kat Beattie | Delivery Manager - Contractor | EIS - Capital Works

48 Hereford Street, Christchurch

education.govt.nz | Follow us on Twitter: @EducationGovtNZ

We get the job done Ka oti i a matou nga mahi We are respectful, we listen, we learn He ropu manaaki, he ropu whakarongo, he ropu ako matou We back ourselves and others to win Ka manawanui ki a matou, me etahi ake kie wikitoria We work together for maximum impact Ka mahi ngatahi mo te tukinga nui tonu

Great results are our bottom line Ko nga huanga lino pal a malou whainga mulunga

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(MBM Fire Protection Ltd is part of South Pacific Fire Protection Group Ltd)

Auckland Christchurch Dunedin Queenstown

To Whom it may concern,

Date: 9 July 2019

Cashmere High School, Christchurch.

Response to building warrant fitness inspection by Argest on 20 June 2019.

SS 1 Sprinkler System

- 1. Con Ed Sprinkler in Defect on arrival and still in defect on departure
- 2. Installation and DBA Gauges reading differently (300 KPA difference)

Summary:

MBM Fire being engaged to investigate and resolve above mentioned defects on fire sprinkler system for building Con Ed Block. At arrival we noted sprinkler system is sitting on defect. And we couldn't find evidence on site if this system is being tested as required for SS1. To investigate and resolve the issue, following measures been followed:

- Commissioning check sheet: we completed our standard commissioning check sheet to audit the operation and functionality of this sprinkler system. Check sheet attached.
 Followings has been noted and rectified:
 - 1. Faulty installation gauge Replaced
 - 2. Faulty DBA gauge Replaced
 - 3. Faulty FSI gauge Replaced
 - 4. Boost pressure sign- new sign installed
 - Check system pressure- system pumped up to normal
- Pressure test: To make sure there is not leak on sprinkler system we conducted 2 separate pressure tests above alarm valve. First test conducted dated 6-7 2019 @ 1600 KPA for 1 hour. Pass results attached. 2nd test conducted on 9 -07-2019 @ 1600 KPA for 2 hours. Pass results attached.

We suggest monitoring system pressure for couple weeks, if pressure drops might pay to check fire alarm valve seals and gasket etc.

 Monthly testing: we completed monthly test by dropping system pressure to defect and test fire. Copy of test sheet attached. As we are not receiving page from ADT monitoring, we contacted ADT via phone to confirm if they received test fire and answer is 'Yes'.

Conclusion:

I am pleased to confirm that Co ED block sprinkler system PFA#513652 is fully functional & operational as required by NZS4541.



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Please do not hesitate to contact if any further information required.

Sincerely,

Manish Kumar

Operations Manager

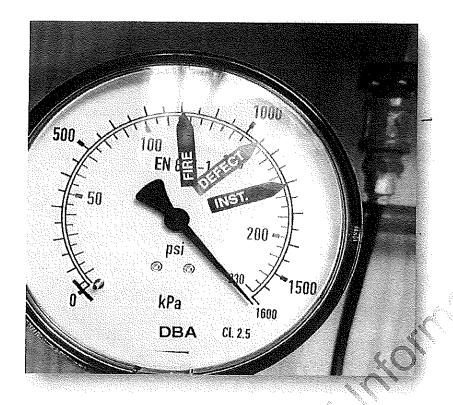
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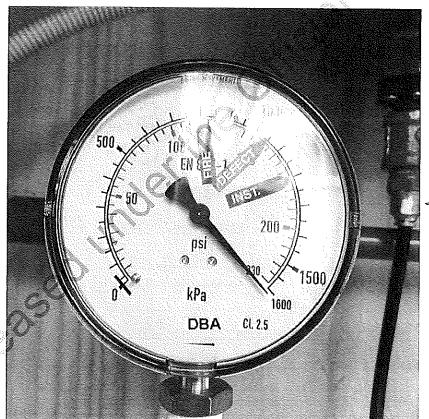


Pressure Test Sheet

AIR TEST / WATER TEST	(CIRCLE ONE)
1 ST FIX / 2 ND FIX	(CIRCLE ONE)
DATE: 6-07-2019 PROJECT: Cashmere High School	
PROJECT: Cashmere Migh School	
AREA TESTED: LO Ed BLOCK.	
INLETS TESTED (BHI/FSI):	
	and Albania
	10
SYSTEM PRESSURE TESTED TO:	1600 KPA
START DATE: 6-07-2019 START TIME:	12-30 Pm
END DATE: 6-07- 2017 END TIME:	1-30 Pm
PRESSURE HELD FOR 0/ HOURS:	
PRESSURE HELD FOR	/B05 N.A
INSTALLATION CONFORMS TO ACCEPTED PLANS:	YES/NO H.A.
EQUIPMENT USED IS APPROVED:	(YES)/NO
RESULTS:	(PASS/FAIL
RETEST REQUIRED:	(NO)YES
REASONS FOR FAIL / NOTES:	
Testos ' A .	
SIGNED INSTALLER:	
NAME: Manigh Kums	<u> </u>
COMPANY: South Pacific for	Bodasiog Ud.
Witness ACCEPTED BY CLIENT:	1
NAME: Ben Spiers	
COMPANY: A/ Sitters	



Premore et 12:30



→ Pressure @ 1.30.



Pressure Test Sheet

AIR TEST / WATER TEST (CIRCLE ONE)
1 ST FIX / 2 ND FIX (CIRCLE ONE)
DATE: 09/07/2019 PROJECT: Cashmese High School AREA TESTED: CO Ed Block. INLETS TESTED (BHI/FSI):
SYSTEM PRESSURE TESTED TO: 1600 KPA START DATE: 9/7/19 START TIME: 8:45 AM
END DATE: 9/9/18 END TIME: 10-45 Am
PRESSURE HELD FOR 2 160 0 KPA
INSTALLATION CONFORMS TO ACCEPTED PLANS: EQUIPMENT USED IS APPROVED: RESULTS: RETEST REQUIRED: NO YES REASONS FOR FAIL / NOTES: Tester SIGNED INSTALLER: NAME: Manish Rums COMPANY: SIGNED SAPPROVED: YES/NO PASS/FAIL NO YES REASONS FOR FAIL / NOTES:
ACCEPTED BY CLIENT:
NAME:
COMPANY:





COMMISSIONING CHECK SHEET

	TIVW -
Date: 8 07 2019	Inspector Signature:
Project: Cashmere School - Co Ed Block	Inspector Name: Manish tamer
Valve Set No.0 of: 0	Inspector Company: SPFP4600P
PFA # 51365E	

Assessed Item	Unit	Complies / Notes
Occupancy	School	
Area	m	
Hazard Classifications	ELH, OHI, DH	
Highest Density EHH	mm/min	
Installation Contractor	Woomalds	
Date		
Date of Last Re-Inspection	10-06-2016	
Valve Overhaul Last Date	10-06-2016	7
FBA Type	Tyco (1)	
Connected To	ADT + fire	Brigade.
Alarm Valve Size	loo mm	
Alarm Valve Make	GEM	
Main Stop Valve Size	/ 100 mm	
Main Stop Valve Make	FAVICO	
BIC / FSI Number of	01	
Supervisory Device Type (Electrical 'E' or Hydraulic 'H')	H	
Number Of Flow Switches	na-depart.	
Number Of Subsidiary Isolate Valves		
Primary Static	650 KPa	
Secondary Static	КРа	
Installation Pressure	1200 KPa	
Defect Pressure	105D KPa	
Drop In Pressure Fire Switch	800 кра	
Rise In Pressure Fire Switch	KPa/sec	
Primary Start Pressure	KPa	
Secondary Start Pressure	KPa	
Primary Pressure Thru 50 Mm	400 KPa	Barringhon St
Secondary Pressure Thru 50 Mm	3 <u>40</u> ,, KPa	Rose St.
Design Flow 1	344 1/min	
Design Pressure 1	182 KPa	
Design Flow 2	842 1/min	
Design Pressure 2	215 KPa	
Design Flow 3	1337 1/min	
Design Pressure 3	ال الله KPa	and the second s

Standard Reference	Assessed Item	Complies / Notes
1	Sprinkler Control Valves (Clause 404)	
All	Secured	V
All	Artificial lighting	
All	Artificial heating	
All	Sprinkler protected	V
2007	Weather protected environment	V
All	Access to control valves clear, condition ok	V
All	SSVI plate legible & location(s) ok	V
All	Spare sprinklers	V O
All	Sprinkler spanner	
All	Sprinkler cabinet/bracket	NO.
All	Sprinkler test book location ok or identified	
All	Sprinkler test book testing current	system tested This month.
All	Quadrennial valve overhaul current	
2	Water Supplies (Clause 605)	
All	Town main toby box accessible	
All	Street valves open	V
1987	Strainer correctly fitted	
All	Strainer cleaned after full flow test	-
All	Hydrant/hose reel Interconnections correct	- Parker and the same and the s
All	Hose reel valve labeled	
2005	Hose reel valve locked	s
3	Back Pressure (Non Return) Valves (Clause 403.3)	
All	Back pressure valve fitted	
All	Back pressure valve tested annually	
1961	Test facility fitted	
All	Dual back pressure valves from non-potable supply	V
2001	Backflow prevention device fitted	V
All 🔊 🖔	Backflow prevention device tested annually	V
2007	Backflow prevention device stop valves supervised	
4)	Subsidiary Valves and Other Stop Valves (Clause 404.2)	
2007	Accessible from floor or platform	
All	Padlocked open	
All	Indicators fitted	
2007	Labeled	
1987	Tested quarterly	
5	Alarm Valve (Clause 404.4.4)	- L
All	Multiple alarm valves numbered correctly (404.8.3)	01

All	Drain valve locked/strapped	
All	Drain valve labeled	
All	Drainage satisfactory	V
1987	Standing pressure less than 1200KPa	V
1996	Standing pressure labeled if exceeding 1200KPa	NA

Standard Reference	Assessed Item	Complies / Notes
6	Enhanced Safety Valve Set	
All	Stop valves either side of alarm valve	
All	Stop valves locked open	
2007	Stop valves labeled	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
All	Stop valves supervised (as subsidiary stop valves)	
2007	Do not close sign	
2007	FBA labeled	
All	Bypass with check or alarm valve	
All	Stop valves either side of bypass valve	
All	Bypass valves locked closed	
2007	Bypass valves labeled	<u> </u>
All	Bypass valves supervised (defect)	
2007	Test & maintenance instructions	
7	Signalling – General (Clause 407.2.2.1)	
All	FBA in lockable cabinet & powered up	
All	MSV supervisory device operates in 2 turns	V
All	Subsidiary stop valve supervisory device operates in 2 turns	~
1996	Subsidiary stop valve isolation switch fitted/labeled	V
All	SGD signals correctly	
All	Evacuation sounders activated	V
1996	Bulgin key bell cut-off on FBA	V
1996	Bulgin key bell cut-off on FBA signals defect	
8	Signalling Device Type X (Clause 407.2.2.1)	
All	Latching mechanism secure - operational	
All	FBA test valve fitted & operation correct	V
2007	FBA test valve drain piped to suitable location	V
All	Drilled NRV fitted & operation correct	
All (7)	Defect pressure switch adjusted correctly	V
Aji	Fire pressure switch adjusted correctly	V
All	Defect & fire pressures recorded	V ,
All	Door interlocks operate	
9	Signalling Device Type Y (Clause 407.2.2.2)	
All	Latching mechanism operational	
All	Drop in pressure switch test valve fitted	
1987	Drop in pressure test valve labeled	
2007	D.P test valve drain piped to suitable location	
All	Drilled NRV fitted & operation correct	

All	Drop in pressure switch adjusted correctly	
All	Rise in pressure test valve fitted	
1987	Rise in pressure test valve labeled	
All	Rise in pressure switch adjusted correctly	
All	Fire pressures recorded	
All	Door interlocks operate	
All	Electronic retard fitted	
All	Hydraulic retard chamber fitted	
All	Hydraulic retard chamber orificed correctly	
All	Alarm valve by-pass & check valve fitted	
2007	Inspectors test valve fitted	
All	Rise in pressure operated on one head flow	

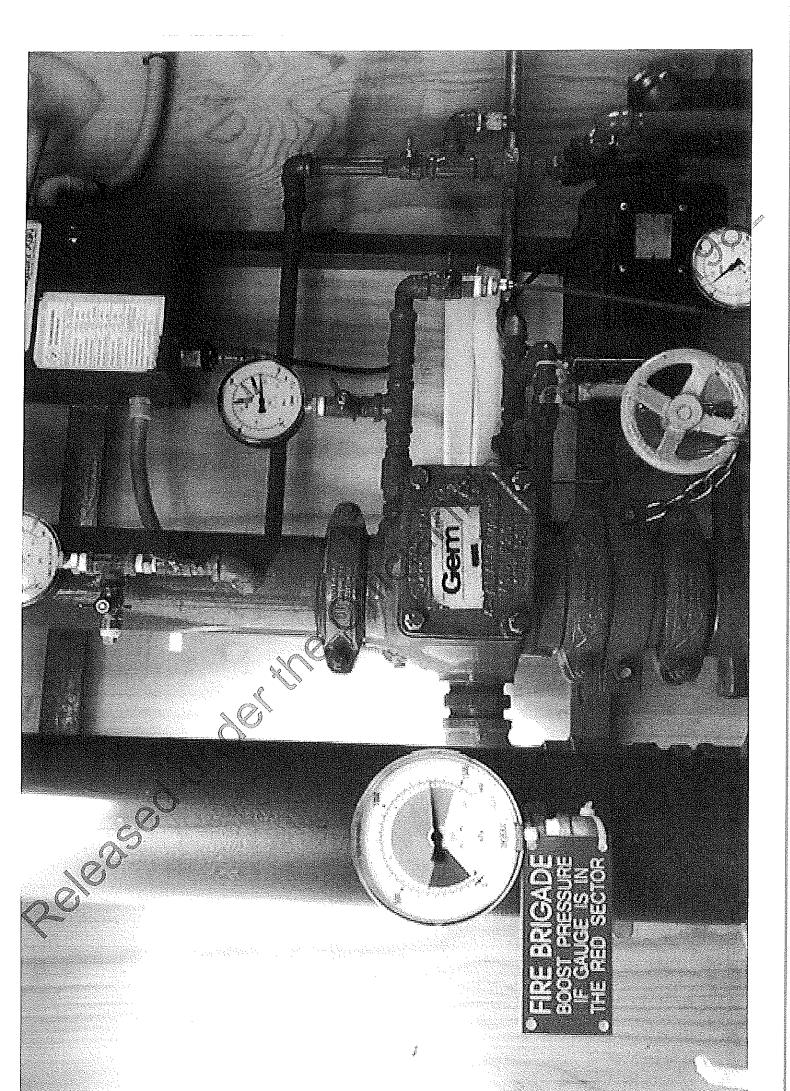
Standard Reference	Assessed Item	Complies / Notes
10	Pressure Gauges (Clause 406)	
1996	Primary gauge fitted upstream of strainer	
All	Primary gauge fitted upstream of backflow prevention	
1996	Secondary gauge fitted upstream of strainer	
All	Secondary gauge fitted upstream of backflow prevention	
1987	Gauge fitted upstream of MSV (combined main)	
All	Installation gauge fitted	I (faulty Grae Keplaced
All	FBA gauge fitted	(Gray 14 Chase Repleced)
All	FBA rise in pressure gauge fitted	I NO THE
All	Dial markings, range& 100mm minimum	~
All	Labelling correct	V
All	Accuracy +1-4%	V
1987	Gauge Isolate cocks fitted	V
2003	Gauge test ports fitted	
11	Super Pressure Pump (Clause 407.5)	
All	Electrical operation/plug/wiring/switch satisfactory	
All	Belt guard fitted	V
All	Satisfactory operation	V
1987	Pressure relief valve fitted	V
1987	Thermal cut out fitted	
12	Flow Switches (when fitted must comply)	
1987	Test facilities to permanent drain & orificed correctly	
1987	Test cocks labeled and strapped	
All	Flow switches indicate correctly	
All	Flow switches tested quarterly/annually	
13	Fire Sprinkler Inlet (Clause 610)	
2007	Cabinet door opens in 5 revolutions	hy.
All	Cabinet & door in good condition	V
1974	Splash guard fitted	PA.
All	Door label satisfactory	

All	Open before pumping sign	V
All	Stop valve functional/housed in cabinet	
All	External drainage satisfactory	V
1987	FSI gauge fitted	V (Faulty Guga seplacea
1987	FSI gauge shaded	
1987	Installation gauge shaded in lieu of FSI gauge	
1987	Boost pressure Sign fitted	V (New Sign fitted)
All	FSI valves & gauges numbered	only one
1987	ONE INLET PER 1350 I/m	
1974	Drain valve fitted below stop valve	V
1996	Permanent test connection fitted (clause 610.6 – amendment 1 —1211997)	
1974	Coupling & hand wheel clearances comply - NZS 4521	
2007	Protection from fall glass	N'GC

Standard Reference	Assessed Item		Complies / Notes
14	Hydraulic Gong (Clause 407.1)		
1987	Labelled fire sprinkler alarm		
All	Painted red		
All	Multiple gongs numbered correctly		
1987	Gong Isolate valve labelled	V	
All	Isolate valve lockable	V	
All	Gong test valve fitted		
1996	Strainer fitted		
All	Frost drip fitted	V	
2007	Drainage to air gap		
All	Gong operates	<i>V</i>	
15	Block Plan (Clause 209)		
All	Fitted	✓	
All	Orientation correct		
All	Location of control valves & fire sprinkler inlets shown	V	
All	Water supplies reticulation shown	V	
1987	Distance to street valve dimensioned if sub terrain		
1987	North point shown	V	
1987	External sprinklers shown		
1987	Highest design flow & pressure shown	V	
1987	Hazard classifications shown		
1987	EHH design density & area of operation shown		
1987	Aerosol storage area shown	• 4	
1987	Fire separations, fire doors & self-closing doors shown	8 <u></u>	
All	Area protected by each installation shown	V	
1987	Location of any drain valves shown	٠	
All	Scale correct & shown		
1987	Location of tail-end valve sets/subsidiary stop valves shown	+ The state of the	

2007	Location of other water supply take-offs & isolate valves	~
2007	Types of sprinkler heads installed	~
16	Water Supply Reference Information (Clause 210)	
1987	Water supply reference graph displayed	
1987	Drain valve residual pressures recorded	
1987	System design demands	V
1987	Pump test return pressure shown	
2007	Pressure switch set pressures shown	
2007	Pressure control valve set pressures shown	
All	Gauge schedule provided	
17	Hand Appliances (Clause 208)	
All	Extinguisher/hose reel servicing current	
All	Extinguisher/hose reel coverage adequate	
1996	Hose reels installed in EHH occupancies	
All	Hose reel performance adequate in EHH occupancies	

Assessed Item	<u> </u>	
Assessed (terr)		Complies / Notes
18 Routine Re-Inspection Items Checked and Satisfactor	TV .	
Adequacy of sprinkler spacing & location		
Adequacy of design density		
Adequacy of in-rack protection/bulkheads		
Adequacy of clear space below sprinklers		A COLUMN TO THE PARTY OF THE PA
Adequacy of storage height limitation signs		
Sultability & condition of pipework & sprinklers		
Adequacy of fire rated partitions in accessible concealed spaces		
Separation from unprotected areas or exposure hazards		P-0-1-4-4-4
Density of anti-freeze & the adequacy of separation barriers		
19 Storage		
Area of Building		
Category of Storage		
Permitted Height		
Observed Height		
Area of Building		
Category of Storage		
Permitted Height		
Observed Height		
Area of Suilding		
Category of Storage		
Permitted Helght		
Observed Height		





SPRINKLER SYSTEM TEST SHEET

Building Name: Conductive Education Building
Address: Cashmer High School - Rose St

Testing Contractor/Agent:

System Number: PFA: 5/3652

		Month 1	Month 2	Quarterly
Date:		4-07-19		
Access - Security		1		
Instaliation Pressure Arrive	kPa	1050		
Installation Pressure Depart	kPa	1300		
Primary Static Pressure	kPa	670		
Secondary Static Pressure	kPa			
Gauge Readings in Tolerance of Gauge Schedu	ule	V		
Operate Isolate - Test Mode	indrine communication communication construction and cons	\ \tag{\tau}		
Operate Stop Valve(s) Supervisory Device(s)		V		i i
Defect Pressure Drop	kPa	1050		\$4. \
Fire Pressure Drop	kPa	800		4, 4, 46
Fire Pressure Rise	kPa			S. 35
Evacuation System Operates		V	. /	A .
Start Pressure Primary	kPa		2/2/	7
Start Pressure Secondary	kPa	6	<i>F.</i> (1) 1	
Electric Phase Fail & Power Operational	in novement accommission in the state of the			
Electric Manual Controls + Auto Start			7	
Electric Run 5 Mins		No.	y	
Electric Pump Running Alarm Operates		72 \		
Electric Pump Return Closed	, W			
Diesel Pump - Refer Diesel Test Log Book	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		6-14-1-1-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
Diesel Pump Running Alarm Operates	<u> </u>			
Main Stop Valve & Subsidiaries Open		1_		A ACCO A SECURITAR OF PRINCIPLE SECURITARION OF THE SECURITARION O
Chains, Locks, Padlocks, Straps & Labels OK	W. Sandar	1/		
Operate Gong - Cock Open		1/		
Water Tank Full				
Ball Cock Tested		3		
Operate Alarm Valve	and the property of the state o			
Primary 50mm Oraln Pressure	kPa			
Secondary 50mm Drain Pressure	kPa			-
No. 1 Street Valve Open/Clear & Accessible			20 0 00 00	
No. 2 Street Valve Open/Clear & Accessible				
Hose Reel Supply Open & Labelled		60.00 (60.00)		
Subsidiary Stop Valves Inspected & Tested				
Flow Switches Indicate Correctly				
Pre-Action System(s) Checked			35 (\$) (2) (3)	
Sprinklers in Dirty Atmospheres Checked			7 (2007) 230 (2007)	
Automatic Tank Infill Valve Exercised		<i>6</i> 3		
Testers Signature:	/	Was	**************************************	
· cotal a citization of	('	I V		

Nosm assival loss EPA. present at defect on System Remarks:

Premore

White: Owners Copy

Yellow: Book Copy



ANZ Centre, 267 High Street PO Box 13960, Christchurch 8141, New Zealand T: +64 3 366 3521 // F: +64 3 366 3188 E: info@beca.com // www.beca.com

Ministry of Education (NZ) PO Box 2522 Christchurch New Zealand

18 September 2017

Attention: Margaret Waller

Dear Margaret

Cashmere High School, Christchurch - Fire Safety Review for the Conductive Education Building

Beca Ltd (Beca) has been requested by the Ministry of Education to conduct a fire safety review for the existing Conductive Education building at Cashmere High School, Christchurch

Background

The existing Conductive Education building is a single storey that was constructed in 2003. The building operates as an educational facility for students with special needs.

The building is currently fitted with an automatic smoke detection, manual alarm and warning devices. The building is also protected with an automatic sprinkler system comprising a dedicated alarm valve that feeds from an existing in-ground water ring main. The in-ground water ring main is understood to have originally been installed circa 1950. Several segments of the water ring main were upgraded overtime, recently in 2010, whilst the rest were left to the original installation.

In late 2016, and prior to commencing works relating to the current development, the School's IQP had identified a deficiency in the water supply for the sprinkler system. This defect hindered the renewal of the School's Building Warrant of Fitness BWoF.

Recently, and following a series of thorough testing and inspections on the water supply, the cause for the said defect was identified. The defect was assigned to two segments of the in-ground ring main pipes installed circa 1950. The defect in these pipes, whether caused due to normal aging or is related to the Canterbury 2011 earthquake could not be identified, is causing significant pressure loss to both sides of the alarm valve rendering the sprinkler system in the Conductive Education building deficient. Other buildings on site that are protected with sprinklers, namely the Admin and the Gym, have their systems performing as required by their design criteria due to the ring main configuration of the water supply.

The school is currently undergoing a major development programme. Part of this programme is the replacement of the old underground ring main. Due to the size of the development and the requirement for the school to maintain its operation, the works are staged. Up until now the north, east and part of the west sides of the ring main, some 350 lineal metres, have been upgraded, refer attached sketch. The defected segments of the ring main, shown in "PINK" in the attached sketch, are scheduled for replacement during the summer holiday between December 2017 and February 2018. Once the replacement is complete, the sprinkler system for the Conductive Education building will revert to its full compliance.

Also part of this development is for the demolition of the existing Conductive Education building when the new facility is up and running. This is scheduled for the summer holiday of 2018-2019.



Letter Objective

A discussion between the Ministry of Education and Christchurch City Council concluded the need for a fire engineer to assess the Conductive Education building and demonstrate its compliance with the NZ Building Code, at least to a "as nearly as is reasonably practicable" before a BWoF can be granted for the school.

Accordingly the objective of this letter is to assess the building's level of compliance with the NZ Building Code using one of its recognised compliance methodologies. For this particular educational building, the Compliance Document C/AS4 January 2017 has been used.

Fire Safety Assessment

Occupancy

The building contains two classrooms, two interview rooms, a resource room, a staff office, a staff breakout area, amenities and a circulation space. When using the densities given by Table 1.2 of C/AS4, the total number of occupants is calculated to be 113 persons. Refer attached sketches for more details.

The school has advised the actual number of occupants in the building does not exceed 25, however and for the purposes of this assessment the largest number of occupants will be considered which is that calculated using C/AS4 tables.

Fire Safety Precautions

As per Paragraph 2.2.1 of C/AS4, the building requires the following fire safety systems,

- 1. Type 4 alarm system,
- 2. Type 9 smoke control in air handling system, and
- Type 18 building fire hydrant.

The building is currently provided with a Type 7 system comprising automatic sprinklers, automatic smoke detectors, manual call points and warning devices. The provision of automatic sprinkler was originally instigated by the Ministry of Education guidelines which exceeds NZBC requirements. Whilst smoke detectors are provided throughout, the Fire Alarm System's standard "NZS 4512" accepts their substitution with heat detectors in areas prone to false alarms. The satisfaction of this requirement is currently achieved with the provision of automatic sprinklers acting as heat sensing devices. Despite the case that the sprinkler system is suffering a deficient water supply, the heat sensing elements of the sprinklers continue to provide alarm signals similar to heat detectors and generate evacuation alarm signals accordingly. As such, all the components of a Type 4 required by the Compliance Document and the Fire Alarm Standard are maintained in the building. Compliance may also be achieved with the retrofit of proper heat detectors in areas with no smoke detectors to satisfy Type 4 alarm system. Such an upgrade may not be reasonable for the short life of the sprinkler system deficiency which is between now and the December 2017 summer holiday.

The building is not provided with air handling systems, therefore no requirement for a Type 9 system.

Anywhere in the building is within 75m of the Fire Service vehicular access, hence no building fire hydrant is required.



In conclusion, the level of fire safety precautions required by NZ Building Code for the building has been achieved.

Means of Escape

Considering the number of occupants above, C/AS4 requires a minimum of two escape routes for the building. The building is provided with two escape routes. The building is currently provided with a third final exit door at the rear of the building. The third final exit is not mandatory for the building to comply with NZBC since that part of the building meets all requirements for "dead end". Refer occupant numbers and travel distances.

The minimum width of the escape routes needs to be achieved when the widest escape route is considered not available, exclude provision of sprinklers. The 113 occupants require a minimum of $113 \times 7 = 791 \text{mm}$ wide escape routes. This width is achieved with the minimum door width of 850mm required by C/AS4. Each of the two escape routes in the building is wider than 791mm, therefore compliance is achieved. Refer attached sketches.

Apart from the door between Classroom 2 and the circulation space, all other doors on escape routes are compliant in their swinging direction. Due to the calculated number of occupants in Classroom 2 (61), the door into the circulation area needs to swing in the direction of escape. This non-compliant feature is considered insignificant since the doors are not provided with self-closers and the students are constantly supervised by trained staff who are responsible for their evacuation. Compliance can then be considered achieved to an ANARP level.

The dead end open path and the total open path are less than 40m and 100m respectively, see attached sketches.

No dead ends in the building serve more than 50 occupants.

The height of the escape routes are more than 2100mm and all doors on escape routes are higher than 1955mm, therefore comply.

All final exit doors are easily openable from the inside and without key or pad locks.

None of the final exit doors are provided with panic fastening as required by Paragraph 3.15.12 C/AS4. It is to be noted that occupants of the spaces are constantly supervised by staff who are responsible for their evacuation. Staff are trained and able to set the doors to open. Compliance can therefore be considered to have been achieved on an ANARP level.

Illuminated EXIT signage is provided throughout. In accordance with assessment, the following changes to EXIT signage is recommended;

- 1. Add new EXIT sign above door in Classroom 2 into circulation space. Sign can be of the photoluminescent type
- 2. Remove EXIT sign above door in circulation space into resource room
- 3. Add new EXIT sign above door in resource room into circulation space. Sign can be of the photoluminescent type
- 4. Remove EXIT sign above final exit door in resource room.





Items 2 – 4 above are only required up to the rectification of the in-ground water main and reinstatement of the automatic sprinkler system. Once the sprinkler system is rectified the rear final exit can resume its operation and compliance since the pathway outside the building, i.e. external escape route, is distanced more than 1.0m from the building and have travel distance lesser than 60m as per Table 3.4 C/AS4. After reinstating the sprinkler system, changes to EXIT signage given in Items 2-4 are to revert to current setup.

At the time when the building was constructed, emergency lighting was only required in *exitways*. Therefore the building is not provided with this system. The current Building Code required emergency lighting throughout. Given the building has a very limited lifetime, scheduled for demolition at the end of the 2018 academic year, it is considered unreasonable to provide emergency lighting at this stage and compliance is deemed to have been achieved to ANARP.

Internal Spread of Fire

The building is one firecell, therefore no internal fire separations are required.

Surface finishes are a combination of GIB wall lining, standard carpet and light weight tiled ceilings. Vinyl is noticed inside amenities and kitchen. Vinyl is also noticed on some walls fixed up to 1.1m high. Although the type of vinyl could not be accurately determined, from visual inspection it appears to be of the Tarkett family or similar. Such vinyl is known to have been tested to ISO 5660 and shown to achieved Group Number 1S.

Similar, standard flooring carpet in New Zealand is shown to meet the critical radiant flux of 1.2kW/m², and compliance is considered to have been achieved on ANARP level.

Conclusion

In conclusion, the building can achieve compliance with NZBC without a fully operative sprinkler system but maintaining the heat sensing component in areas without smoke detection.

Yours sincerely

Fadi Jirjees Associate - Fire

on behalf of

Beca Limited

Direct Dial: +64-3-363 3464 Email: fadi.jirjees@beca.com

STATE OF UHS WATER SUPPLY.

25 October 2016

Cashmere High School-Gymnasium

PFA #: 513478

SITE PLAN



* ATHFIELD ARCHITECTS COMMENTS 15/06/17.

NEW 150 MM SITE MAIN INSTALLED DEC 2016.

EXTENT OF NOW 150MM SITE MAIN INSTALLED 2010.

ROSE STREET Existing 100mm Site Mai 150mm Backflow Prevention Unit & Strainer @ Boundary Administration Gymnasium 100mm Control Valves F51, Gong, BFPU & FAF BARRINGTON STREET 100mm Backflow Prevention Unit & Strainer @ Boundary REMAINDER OF Conductive EXISTING MAIN TO BE REPLACED

NEW AT END OF

WITH

Occupancy classification:

School System classification:

Water demand:

ELH, OH3

A: 270 l/min@ 350 kPa

B: 1400 l/min @ 250 kPa

Number of levels:

One

Highest head:

10.0m

Scale:

NTS

Drawn:

Date:

SA

Oct 16

External sprinkler head

Control valves

Stop valve

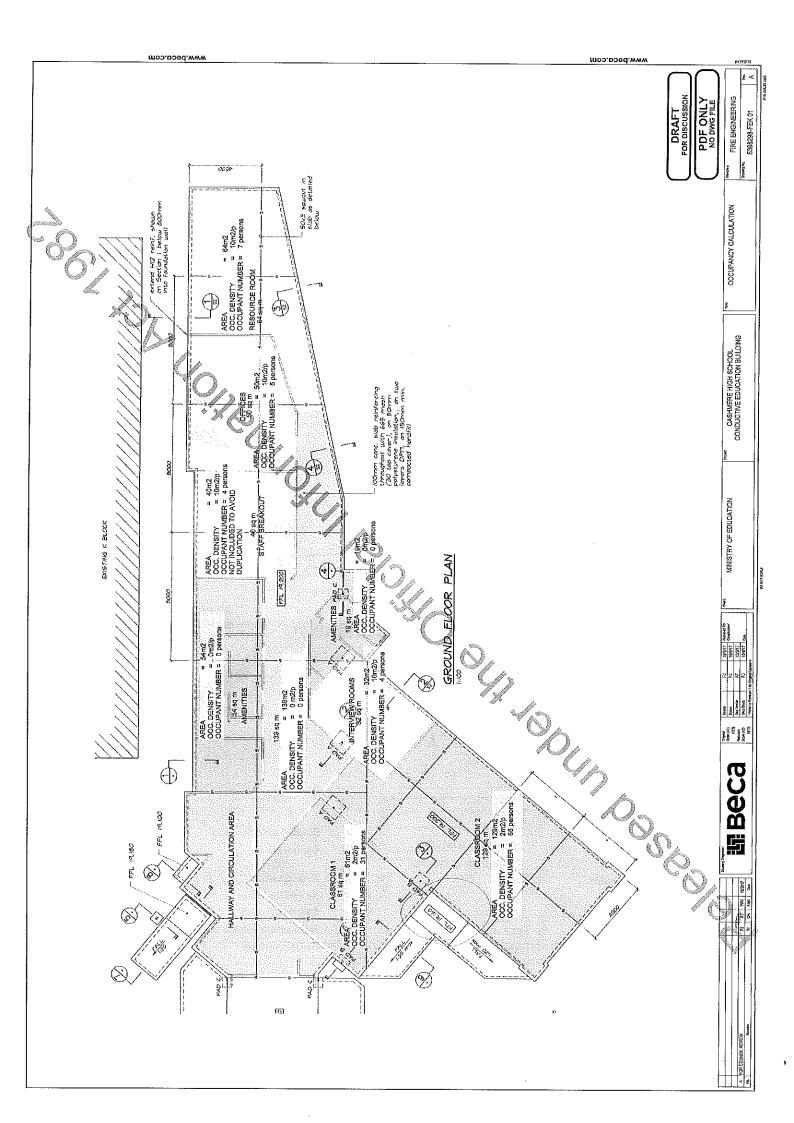
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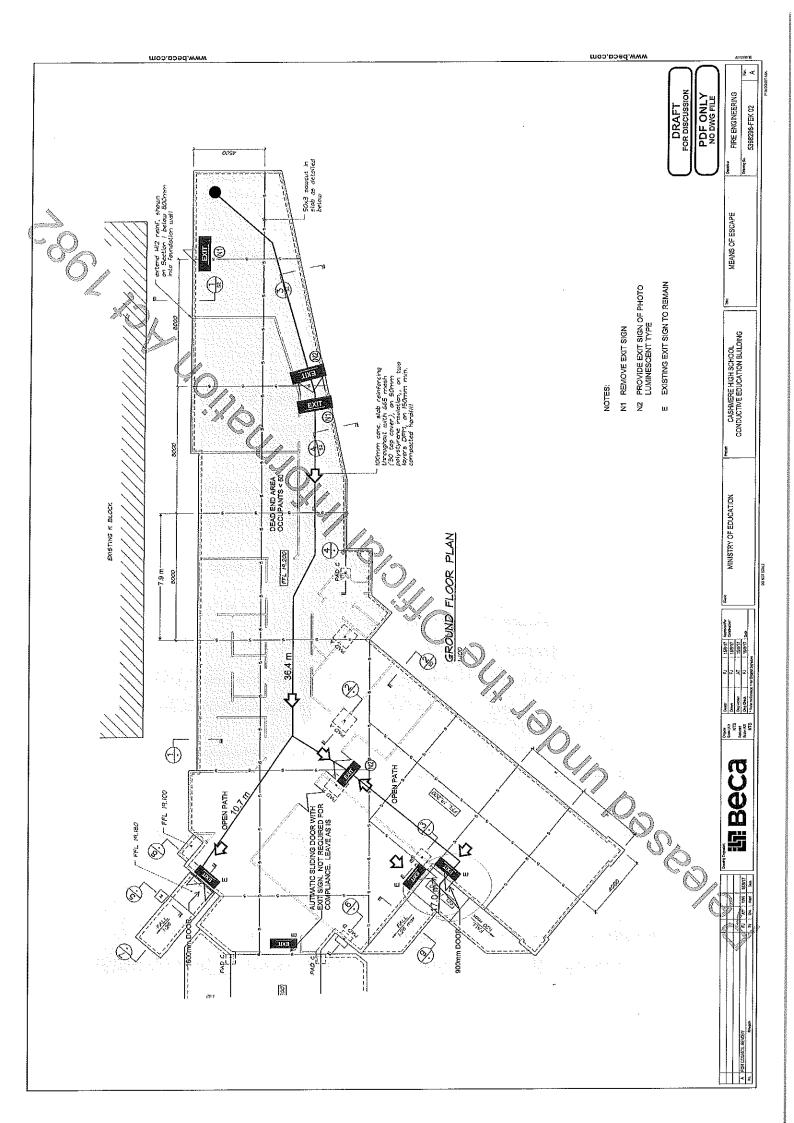
₩ Non return valve ⊕

Exposure hazard

* Approximate design point position

Fire Service inlet







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Cashmere High School 172 Rose St, Somerfield, Christchurch 8024 New Zealand

19 September 2017

Attention: Mark Wilson

Dear Mark

Conductive Education Building, Cashmere High School - Changes to EXIT Signage

Beca has recently been requested by The Ministry of Education to run a quick fire safety assessment for the Conductive Education Building at Cashmere High School. The assessment is in relation to the currently defected automatic sprinkler system.

The assessment concluded the building can comply with NZ Building Code using the Compliance Document C/AS4 without the need for the automatic sprinkler system that was originally installed to meet the Ministry's fire safety guideline. However, and to bring the building to compliance with the NZ Building Code, the following arrangement to its escape routes are required,

- 1. A minimum of two escape routes are required for the building. These are designated to be,
 - a. The main entry double doors,
 - b. The door in Classroom 1 to the outside
 - c. The door in classroom 2 to the outside

Please note the rear door from the Resource Room is not a compliance escape route without sprinklers.

- 2. The rear area in the building containing the Staff breakout, Staff Office and Resource Room is not to be occupied by more than 50 occupants.
- 3. Classroom 1 requires at least one escape route which is the final exit to the outside.
- 4. Classroom 2 requires two escape routes, these are,
 - a. The final exit to the outside,
 - b. The double doors into the building circulation space then via the main entry doors to the outside.
- EXIT signs are to follow the designated escape routes above and be arranged as follows;
 - Add new EXIT sign above door in Classroom 2 into circulation space. Sign can be of the photoluminescent type
 - b. Remove EXIT sign above door in circulation space intro Resource Room
 - Add new EXIT sign above door in Resource Room into circulation space. Sign can be of the photoluminescent type
 - Remove EXIT sign above final exit door in Resource Room.

III Beca

Please note items b, c and d above are only required until the automatic sprinkler system is rectified during the summer holiday of 2017. When the system is rectified, the rear escape route from the Resource Room will be compliant and can resume its operation.

6. Revise the building's evacuation plan and inform all trained Staff of the temporary arrangement until the sprinkler system is rectified.

By adopting the above, the building continues to comply with the NZ Building Code.

If you require further information please do not hesitate writing to us.

Yours sincerely

Responsible of the state of the

Our Ref: 5396298 NZ1-14665437-2 0.2 From:

Rob Wilson

s 9(2)(a) OIA

To:

Cc:

Katerina Beattie; "Kirsten Dell-Hartgers";

Team MOE

Subject: Date:

CASHMERE HIGH SCHOOL - BWOF PACKAGE WITH UPDATED RIL INCLUDED Tuesday, 16 July 2019 12:43:04 p.m.

Attachments:

Cashmere High Major Defect List Remediation.pdf

Letter for Co ED.PDF Form 11 - Add SS3,1.pdf Cashmere final (2).pdf 20190716121225193.pdf

Hello

s 9(2)(a) OIA

Please find attached the BWOF package with an amended RIL included. Also attached is the Argest report and two subsequent reports that confirm the 7 items in bold have been completed.

You will all see the wording to the RIL have been updated to refer to the contract Argest have with MBM re being the sites IQP and service provider for SS1 and SS2.

, Yes the Form 11 is still applicable, the fact that the doors are back in use was advised to Argest verbally by the school, but I would think can be left until the next CCC related C/S amendment, but this is of course Councils call to make.

I understand this will now allow the CPU application for the PAC building to progress?

Cheers Rob

Rob Wilson

s 9(2)(a) OIA

Contract Manager

ARGEST Building & Compliance www.argest.com

From: Rob Wilson

Sent: Tuesday, 16 July 2019 11:26 AM

s 9(2)(a) OIA **To:**

Cc: Katerina Beattie (Katerina.Beattie@education.govt.nz); Kirsten Dell-Hartgers;

: Havden Westbury

Subject: REs. HPRM: FW: Cashmere High School - Fire Services Engagement - remaining bold items

completion advice

s 9(2)(a) OiA

, many thanks, this is indeed great news.

Yes we will redo the BWOF paperwork to include an amended RIL that includes and refers to the two confirmations of work done re the 7 items in bold and send it through.

Many Thanks Rob

s 9(2)(a) OIA

Rob Wilson

Contract Manager

ARGEST Building & Compliance www.argest.com

s 9(2)(a) OIA

@ccc.govt.nz]

Sent: Tuesday, 16 July 2019 10:44 AM

s 9(2)(a) OIA To: Rob Wilson

Cc: Katerina Beattie (Katerina.Beattie@education.govt.nz); Kirsten Dell-Hartgers;

Subject: RE: HPRM: FW: Cashmere High School - Fire Services Engagement - remaining bold items completion advice

Morning Rob,

and I had a chat this morning and are happy with the 2 Reports submitted regarding the resolution of the Outstanding Issues with SS1 & SS2 at Cashmere High.

I've attached a copy of the Documents sent through dated 11 June 2019, can these be updated mention made in RIL regarding repots from SPFP re SS1 and Optimus Fire re SS2.

Also, a form 11 was submitted, does it still need actioning

Any questions please let me know.

Regards,

Technical Officer [Project Information Memoranda]

Engineering Services Team

Commercial Consents Unit s 9(2)(a) OIA

<u>Buildina Consentina</u>

Email:

@ccc.govt.nz

Web: www.ccc.govt.nz

Christchurch City Council

Civic Offices, 53 Hereford Street, Christchurch PO Box 73013, Christchurch, 8154

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Go to www.ccc.govt.nz/goahead_newsletter for the latest newsletter and to subscribe.

From: Rob Wilson [mailto @argest.com]

Sent: Friday, 12 July 2019 3:57 p.m.

@ccc.govt.nz>;

@ccc.govt.nz>

Cc: Katerina Beattie (Katerina.Beattie@education.govt.nz)

<Katerina.Beattie@education.govt.nz>; Kirsten Dell-Hartgers <dhk@cashmere.school.nz>

Subject: HPRM: FW: Cashmere High School - Fire Services Engagement - remaining bold items completion advice

Hello

Please find attached a report that shows all 7 report items in bold have now been completed.

We hope that this brings the BWOF and supporting paperwork up to the level that enables the CPU application to proceed.

Cheers Rob

s 9(2)(a) OIA

Rob Wilson

Contract Manager

ARGEST Building & Compliance www.argest.com

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Christchurch City Council

http://www.ccc.govt.nz



12 July 2019

Manish Kumar South Pacific Fire Protection Ltd 328 Tuam Street Christchurch

Attention Manish

Project: Cashmere High School - Argest Major Defect Remediation

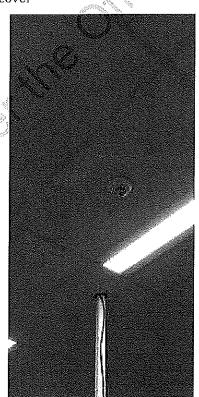
Thank you for the opportunity for us to attend to the Cashmere High School fire system major defects list as supplied by Argest that required remediation. We note that there are other identified defects on site of a more minor nature which have been approved to be sorted over the next week or so.

Below we list the defects and subsequent remediation; <u>SS1 Automatic System for Fire Suppression</u>

1. Con Ed Sprinkler in Defect on arrival and still in defect on departure
Defect sorted by Manish Kumar of South Pacific Fire Protection and covered in previous email.

SS2 Emergency Warning System

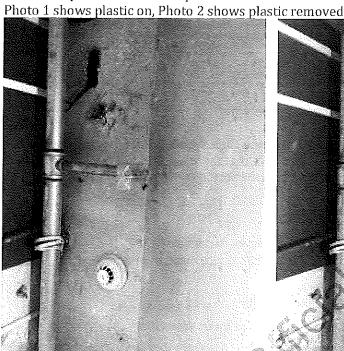
1. Classroom A9 cap on detector Cover removed by Cashmere High School Caretaker – Confirmed by Optimus Fire Photo show smoke with no cover

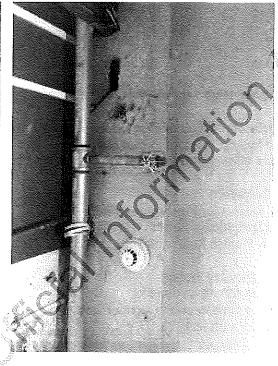




2. Gym smoke detector and sprinkler head covered by store room exit

We understand this was sorted by Cashmere High School Caretaker however we found a Gym store room with plastic cover over sprinkler head held with blue tape. We removed the plastic cover.

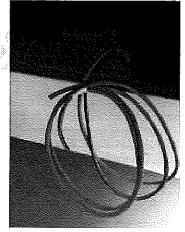


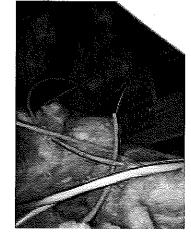


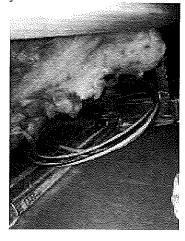
3. Gym toilet/changing rooms low sound levels

We investigated the evacuation devices in the Gym toilet/change areas and found several devices not working. Speakers which failed had no monitoring voltage which they should have if they were in circuit. We accessed the roof void and found five (5) open circuits on the evacuation feed. We expect these were wired for during installation but never brought through the gib. All five open circuits were junctioned which allowed some failed sounder to operate however two (2) still failed. Replaced these old Ampac sounders with new Pertronic ones which operated correctly. The old Ampac sounders were found to be problematic in the past including the grills falling off and were no longer sold as a result.

Photo 1 to 5 shows all 5 open circuits. Photo 6 & 7 show crimp joins to repair circuit. Photos 8 & 9 show old and new sounder in girls change. Photos 10 & 11 show boys toilet old then new sounders.





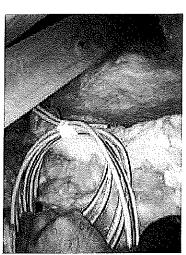


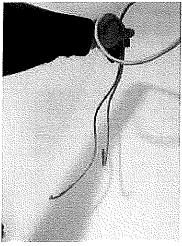
OFBS TENDER LETTER | FORM02 | 20.07.2018 | REVISION NO.1 Page 2 of 6

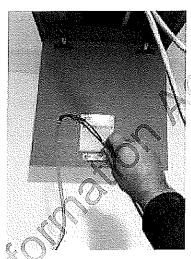
Optimus Fire and Building Services Ltd P.O. Box 79-171, Christchurch 8446

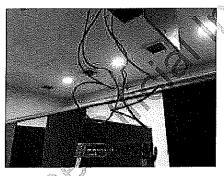


INDSFIRE

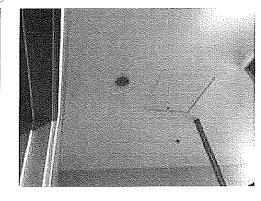


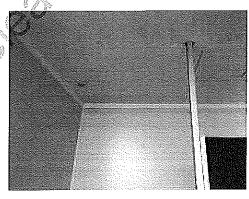


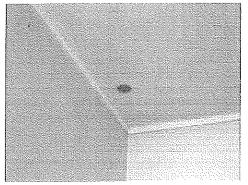












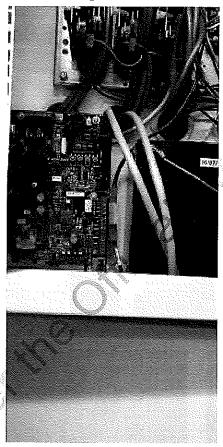
OFBS TENDER LETTER | FORM02 | 20.07.2018 | REVISION NO.1 Page 3 of $\bf 6$



4. Amplifier 3 overloaded at 78watts (this needs urgent attention)

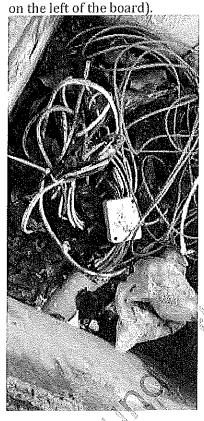
We carried out an impedance test on the evacuation feed to Amplifier 3 and found it to be just over 90Watts. The Amplifier it rated at a maximum of 50Watts so is well overrated. We purchased an FP1116 – 120Watt T-Gen which as stated is rated at 120Watt, 30Watts over the current evacuation load. This was installed, made into the master amplifier and tested ok.

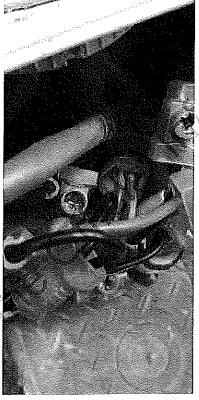
Photo 1 shows the new 120Watt Amplifier installed in the MX1 panel. The green normal light is top centre and the green LCD display is showing normal screen.

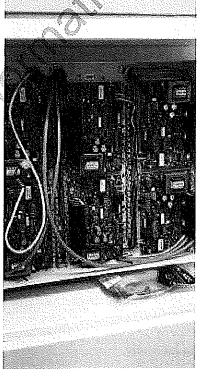




5. Sounder fault on Amp 4 needs attention as this is causing a fault on the panel We carried out fault finding on evacuation circuit for Amplifier 4. The fault tended to come and go. We tracked it back to some underground junctions that were inadequately terminated. These junctions were temporarily made good and the fault cleared. No sign of a fault on this Amplifier has since occurred. The temporary junction will not cause issue but will require a permanent water protected join which we will look at doing week starting 15 July 2019 during School Holidays. Photo 1 shows underground junction with inadequate water protected terminations. Photo 2 shows another major junction on the side of the Administration Block which also required improved terminations. Photo 3 shows ALL Amplifiers in normal state (defect state shows a bright yellow LED







6.5 minute delay on sounder operation and brigade calling on smoke detectors, sounders are to be instant the delay on the brigade calling is to remain

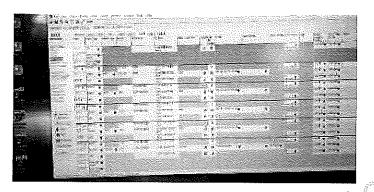
The 5 minute delay has been changed in the config as required. The fire system now has immediate evacuation on activation of a smoke detector, MCP or sprinkler. There is a 5 minute delay on the Fire Service calling on smoke detectors but not on MCP's or Sprinkler.

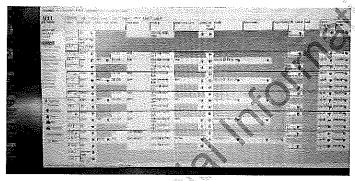
Photo 1 shows a snapshot of part of the config with smoke evac delay. Photo 2 shows the same section without smoke evac delay.



IN INCOSERE

& BUILDING SERVICES LTD





We can now formally advise that the above 7 items have been remediated and as such are confident that the system will function as and when required. As mentioned above further minor remedial items that do not affect the safety and integrity of the system are already being sorted with completion planned to be prior to the start of Term 3.

I trust the above satisfies your requirement, should you require further information please do not hesitate to contact me on the details below.

Yours faithfully

Simeon Wilson

Operations Manager
Optimus Fire and Building Services

[QP #617 – SS1, 2, 3, 4, 6, 7, 13, 14, 15

Fire Detection Level 4 021 891 940

WWW.optimusfire.co.nz









(MBM Fire Protection Ltd is part of South Pacific Fire Protection Group Ltd)

Auckland Christchurch Dunedin Queenstown

To Whom it may concern,

Date: 9 July 2019

Cashmere High School, Christchurch.

Response to building warrant fitness inspection by Argest on 20 June 2019.

SS 1 Sprinkler System

- 1. Con Ed Sprinkler in Defect on arrival and still in defect on departure
- 2. Installation and DBA Gauges reading differently (300 KPA difference)

Summary:

MBM Fire being engaged to investigate and resolve above mentioned defects on fire sprinkler system for building Con Ed Block. At arrival we noted sprinkler system is sitting on defect. And we couldn't find evidence on site if this system is being tested as required for SS1. To investigate and resolve the issue, following measures been followed:

- Commissioning check sheet: we completed our standard commissioning check sheet to audit the operation and functionality of this sprinkler system. Check sheet attached. Followings has been noted and rectified:
 - Faulty installation gauge Replaced
 - 2. Faulty DBA gauge Replaced
 - 3. Faulty FSI gauge Replaced
 - 4. Boost pressure sign- new sign installed
 - 5. Check system pressure- system pumped up to normal
- Pressure test: To make sure there is not leak on sprinkler system we conducted 2 separate pressure tests above alarm valve. First test conducted dated 6-7 2019 @ 1600 KPA for 1 hour. Pass results attached. 2nd test conducted on 9 -07-2019 @ 1600 KPA for 2 hours. Pass results attached.

We suggest monitoring system pressure for couple weeks, if pressure drops might pay to check fire alarm valve seals and gasket etc.

Monthly testing: we completed monthly test by dropping system pressure to defect and test fire. Copy of test sheet attached. As we are not receiving page from ADT monitoring, we contacted ADT via phone to confirm if they received test fire and answer is 'Yes'.

Conclusion:

I am pleased to confirm that Co ED block sprinkler system PFA#513652 is fully functional & operational as required by NZS4541.



(MBM Fire Protection Ltd is part of South Pacific Fire Protection Group Ltd)

Auckland Christchurch Dunedin Queenstown

Please do not hesitate to contact if any further information required.

Sincerely,

Manish Kumar

Operations Manager

South Pacific Fire Protection Group Ltd

Mob: 02108182833



Consenting & Compliance Group

Application for amendment to compliance schedule

SECTION 106, BUILDING ACT 2004
FORM 11 - BUILDING (FORMS) REGULATIONS 2004

CCC Compliance	Schedule Numb	er:
WOF51725		

1. About this form

A compliance schedule is a document that is required by the Building Act 2004. It details the inspection maintenance and
reporting of a specified system such as sprinkler systems, emergency lighting and fire alarms to ensure that the building
owners take responsibility to guarantee the safety of building occupants and buildings.

Please check that the forms that you are using are current at the time of application as they are subject to change without

notice.

General information can be found on our website at www.ccc.govt.nz/goahead

2. The building

Street address (include Level and Unit No):

172 ROSE STREET

Legal description: Lot No: Lot 5 Deposited Plan 9847, Lot 2,3,4,10 Deposited Plan 9938 DP: State legal description as at the date of application and, if subdivision is proposed include details of relevant Lot numbers and subdivision consent.

Building name (where applicable):

CASHMERE HIGH SCHOOL

Location of building within site: (include nearest street access)

Rose Street access

Number of levels:

(including ground level and any levels below ground)

Level / Unit number (if applicable):

Current lawfully established use:

Assembly Care/School

(include number of occupants per level and per use if more than 1 level)

Year first constructed:

N/A

(insert year, approximate date is acceptable, e.g. c1920s or 1960-1970)

Maximum occupant load:

Fire hazard category:

CL WL2

3. The Owner

Full Name(s):

Ministry of Education, Property Management Group, National Office, Wellington

Include preferred form of title, e.g. Mr, Mrs, Ms Miss, Dr If an individual and the contact person's name if a company, trust or similar

First point of contact for communications within Council:

Argest Technical Services Ltd, as owner's authorised agent

Email address:

wn@argest.com

Mailing address:

Website:

www.argest.com

LU: 02.12.16, LR: 02.12.16, v6

PO Box 10145, Wellington (Argest)

Street address/Registered office:	☐ If different than abo	ve			
Phone numbers: Daytime:	0800 274 378 (24hrs no	ımber)		Mobile:	:
Fax: 04	473 1111		After hours:		
Evidence of ownership attached:	☐ Certificate of Title	☐ Lease agreement	☐ Sale and p	ourchase	
4. Agent – First point	of contact	Only required if t Agent must be	he application is authorised by t	s being made on t he Owner to make	pehalf of the Owner. this application.
Name of agent: Argest Techn	ical Services Ltd Include the	contact person's name if a comp	any, trust or similar	·	
New Zealand Companies Register	red Number (if applicable - re	efer to www.business.govt.nz/co	mpanles): 29	2444	N.,
First point of contact for communic	cations within Council:	Rob Wilson Contact n	nanager		
Relationship with Owner: Au	ithorised Agent		\		
Email address: wn@argest.c	om				
Website: www.argest.com				5	
Mailing address: PO Box 101	145, Wellington (Argest)				
Street address/Registered office:	☐ If different than above	re (
5 1					
Phone numbers: Daytime:	0800 274 378 (24hrs nun	nber)		Mobile:	
Fax: 04 47	73 1111		After hours:	0800 274 378 ((24hrs number)

5. Compliance schedule amendments

I request that the compliance schedule for the above building be amended as follows:

1000			
Y	Specified Systems	Amendment	Reason
	SS1 – Automatic systems for fire suppression		
	SS2 – Emergency warning systems		
×	SS3/1 – Automatic door	ADD	Removed from CS in 2016 due to the door being locked. They are now unlocked and back in use. 1 x Automatic door, location: J Block, conductive education building
	SS3/2 - Access controlled doors		
	SS3/3 – Interfaced fire or smoke doors or windows		
	SS4 – Emergency lighting systems		
(SS5 – Escape route pressurisation systems		
	SS6 – Riser mains		
	SS7 – Automatic back-flow preventers		
	SS8/1 - Passenger carrying lifts		
	SS8/2 - Service lifts		
	SS8/3 Escalator and moving walks		
	SS9 – Mechanical ventilation or air conditioning systems		
	SS10 – Building maintenance units		

✓.	Specified Systems	Amendment	Reason
	SS11 – Laboratory fume cupboards		
	SS12/1 – Audio loops		
	SS12/2 – FM radio and infrared beam transmission systems		
	SS13/1 – Mechanical smoke control		
	SS13/2 – Natural smoke control		<u> </u>
	SS13/3 – Smoke curtains		
	SS14/1 – Emergency power systems		
	SS14/2 – Signs for SS1-13		
	SS15/1 Spoken information to facilitate evacuation		*
	SS15/2 – Final exits		
	SS15/3 – Fire separations		
	SS15/4 – Signs for facilitating evacuation		*
	SS15/5 – Smoke separations		
	SS16 – Cable cars		

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Copy of; performance standards inspection, maintenance, and reporting procedures for the specified systems.

7. Declaration

To be completed and signed by Owner / Agent.

I / we understand that a fee may be charged for processing this application, according to the Schedule of Fees (Building Charges), applicable at the time of application (please refer to the Building Consents Fee Schedule on our <u>website</u> for current charges.)

All of the above information is, to the best of my knowledge, true and correct. I understand that all attachments submitted as part of an application are required to be kept available for public record, therefore the public (including business organisations and other units of the Council) may view this application, once submitted.

Owner's/ Agent signature:

Date: 11/06/2019

Print name: Monica Simpson

Position:

Contract administrator

If you are signing this application on behalf of a company/trust/other entity (the applicant), you are declaring that you are duly authorised to sign on behalf of the applicant to make such an application.

By signing this application you are accepting responsibility to pay all actual and reasonable costs incurred by the Christchurch City Council. Where an invoiced amount has not been paid by the stated due date, the Council may commence debt recovery action. The Council reserves the right to charge interest, payable from the date the debt became due, and recover costs incurred in pursuing recovery of the debt.

PRIVACY INFORMATION:

If you would like to request access to, or correction of, your details, please contact the Council.

Information

GENERAL INFORMATION:

- Building consent fees: The latest Building Consent Fee Schedule is available on our website or from one of our Service Centre's
- Guidance sheets and information booklets produced by the Council and the Ministry of Business, Innovation and Employment Building and Housing Group are available at all Service desks
- For general enquiries please phone (03) 941 8999 or email info@ccc.govt.nz

SUBMITTING AN APPLICATION:

Online Services applications:

- · You can submit your application online at http://onlineservices.ccc.govt.nz
- You will need to register to use Online Services. You can register at http://onlineservices.ccc.govt.nz

An application can also be lodged via the following methods:

- Post (additional costs apply) your application to: Consenting & Compliance Group, PO Box 73013, Christchurch 8154
- Hand delivered (additional costs apply) to Civic Offices, 53 Hereford Street, Christchurch Central or dropped off at any Council service desk listed on our website at www.ccc.govt.nz/contact-us/service-desks

All applications will be checked for completeness prior to acceptance. Please ensure that you have compiled your documents carefully to avoid delays in accepting your application. If your application is incomplete it will not be accepted and the statutory processing timeframe will not start until the missing information has been provided.



20 June 2019

To whom it may concern,

Cashmere High School, Christchurch **Building Warrant of Fitness IQP Inspection**

Recently we completed an IQP Inspection at the above property for your Building Warrant of Fitness purposes. From the information provided an inspection was performed, we report the following:

SS 1 Sprinkler System

- 1. Con Ed Sprinkler in Defect on arrival and still in defect on departure
- 2. Installation and DBA Gauges reading differently (300 KPA difference)

SS 2 Emergency Warning

- 1. There are multiple canopies throughout the site with dimensions of greater than 1.5m in all directions that are unprotected
- 2. B Block ground floor obsolete Smoke detectors in corridor by smoke detector Z8/P5/111 to be removed
- 3. Manual Call point partially blocked Z8/P5/89 (call points require 600mm clear space around them)
- 4. Smoke detector Z6/P3/16 to close to air-conditioning unit
- 5. Smoke detectors for obsolete door holders to be removed by smoke detector Z6/P3/50
- 6. 2nd stairwell no manual call point by exit
- 7. Smoke detector Z6/P3/16 spacing out of rule (6.2m to fire door)
- 8. Multiple Smoke door smoke detectors not labeled throughout the site. (These are standalone detectors that are not connected to the fire alarm panel)
- 9. Classroom A9 Cap on detector
- 10. Smoke detector English areas detectors out of rule for spacing
- 11. Smoke detector Z9/P5/76 spacing out of rule (5.3m to walls)
- 12. Gym Smoke detector and sprinkler head covered by store room exit.
- 13. Library high level smoke detector spacing out of rule
- 14. § Block Heat detectors in toilets have unapproved covers installed these need to be removed
- 15 Music Disabled toilet used for storage, heat detector should be replaced with smoke detector or storage removed and the disabled toilet reinstated (this is preferred as that is what it is designed for)
- 16. Admin Upstairs locker rooms and sick bay no smoke detection
- 17. Admin downstairs meeting room Call point covered by curtain
- 18. Index not accurate for the type of systems throughout the school
- 19. Some smoke detectors do not have individual point location description although this is a small portion of the devices
- 20. 5 minute delay on sounder operation and brigade calling on smoke detectors, evidence of fire design approval required. There should be no delay on the sounder operation.



Building & Compliance Management

- 21. Gym Toilet/changing rooms low sound levels
- 22. W block with high ceilings Low sound level
- 23. A and B Block classrooms top floor low sound levels in some of the classes
- 24. Fire alarm batteries due replacement dated 2014 (Manufacturers recommend a five year replacement cycle)
- 25. Amplifier 3 Overloaded at 78watts this needs urgent attending (description for coverage shows A and B blocks this may assist with fault 23 above once attended to)
- 26. Distance to the furthest points in the school appear to be over 100m to the attendance point a second attendance point display may be required distance to be confirmed this has been previously approved
- 27. Sounder fault on Amp 4 needs attention as this is causing a fault on the panel
- 28. New block under construction some isolations present on the panel for this area

This report was completed at the request of the Ministry, school and Council to support the BWOF and supporting paperwork as already issued. The issues in <u>bold</u> need to be rectified immediately as there are impairments of the systems the remaining faults should be corrected before next warrant issue.

If you require any further information, please do not hesitate to contact me on 027 554 9677.

Kind Regards

Hayden Westbury

Argest Building and Compliance



Building & Compliance Management

11 June 2019

Building Compliance DepartmentChristchurch City Council
PO Box 73013 **Christchurch 8154**

Dear Sir or Madam

CASHMERE HIGH SCHOOL

Building Warrant of Fitness Expiring 1 May 2020

Argest Technical Services Limited has the nationwide contract with the Ministry of Education to provide Compliance Schedule Management and Fire Protection Services for State schools.

In accordance with our contractual obligations to the Ministry of Education and in terms of the Building Act we hereby supply you with a new Building Warrant of Fitness for the above school.

We confirm that a copy of the Building Warrant of Fitness and the accompanying forms and/or certificates, have been forwarded to the school with instructions to publicly display the original and file the copies, as required by the Building Act 2004.

We trust this is in keeping with your expectations.

Please contact meif you require any further information regarding these matters.

Yours faithfully

Argest Technical Services Limited – Wellington

Christine Scammell, Executive Director

TA 60 ID 340 Prepared by msimpson

BUILDING WARRANT OF FITNESS - Form 12, Section 108, Building Act 2004

THE BUILDING	
Compliance Schedule No.: WOF51725	Annual BWOF Expiry Date: 1 May 2020
Name; CASHMERE HIGH SCHOOL	Current, Lawfully established use: Assembly Care/School
Address: 172 ROSE STREET, CHRISTCHURCH	Intended life of the building (if 50 years or less): Indefinite
Level/Unit Number: As Per Latest Compliance Schedule	Highest fire hazard category for building use: CL 2
Legal Description of land where building is located: Lot 5 Deposited Plan 9847, Lot 2,3,4,10 Deposited Plan 9938	Location of Building within site/block number: Rose Street access
Year first constructed: 1954	
THE OWNER	AGENT
Ministry Of Education, Property Management Group, National Office, Wellington, but refer to Agent	Argest Building and Compliance Management Mailing address; PO Box 10145 Wellington
Mailing Address: PO Box 1666 Wellington, but refer to Agent	Street Address/Registered Office: Grd Fir, 155 The Terrace Wellington
Street Address/Registered Office: 45-47 Pipitea St Wellington, but refer to Agent.	Telephone No. 0800 274 378
Telephone No: 04 463 8000, but refer to Agent	E-mail Address: wn@argest.com
Web Site: www.minedu.govt.nz	Wéb Site: www.argest.com
SYSTEMS – as per Building Act 2004	
SS1 Automatic systems for fire suppression	SS2 Emergency warning systems
SS3/2 Access controlled doors	SS3/3 Interfaced fire or smoke doors or windows
SS4 Emergency lighting systems	SS7 Automatic Backflow Preventer's
SS8/1 Passenger carrying lift	SS9 Mechanical ventilation or air conditioning systems
SS11 Laboratory fume cupboards	SS14/2 Signs relating to SS1 to SS13
SS15/2b Final exits	SS15/3c Fire separations
SS15/4d Signs for facilitating evacuation	SS15/5e Smoke separations
WARRANT	
The maximum number of occupants that can safely use this buildir	a la May Oct 1700 total favechaal fidmin 100 Libeau 200

The maximum number of occupants that can safely use this building is: Max Occ: 1700 total for school, Admin<100, Library<200, Gym<1000, Conductive Educ<33, Careers E3<1000, Classrooms A blk-374, B blk-312 C & D blk<200 E & T blk<100, K blk-175, M blk M7-11 prefab<100, O Blk<100, W blk 210, W6 47, W7 24, portal blk - 346, PAC bldng - 1404, scinece bldg - 252

The inspection, maintenance, and reporting procedures of the compliance schedule for the above building have been fully complied with during the 12 months prior to the date stated below.

ATTACHMENTS:	a) Certificates relating to inspections, maintenance, and reporting (Form 12A) b) Recommendations for amendments to the compliance schedule (Form 11) If any.					
Signature of agent on behalf of and	Christine Scammell, Executive Director, Argest Bullding & Compliance	Date of Issue: 11 June 2019				
with the authority of the Owner:	CA	TA: 60 School ID 340				

Rev. 19 February 2018

Report in Lieu of Form 12A

THE B	UILDING						
1	address of building: 172 Rose Street						
Legal	description of land where building is located: Lot 5 Deposited Plan 9847, Lot 2,3,4,10 Deposited Plan 9938						
Buildir	ng Name/Trading Name: Cashmere High School						
Locati	on of building within site/block number: Rose Street access						
Level/	unit number; unknown						
Comp	liance schedule number: WOF51725						
THEO							
 	of Owner: Ministry of Education						
	ct Person: Rob Wilson C/- Argest						
_ I	g Address: P O Box 10 145, Wellington						
Street	address/registered office: 155 The Terrace, Wellington						
REPOR							
Specifi	ied system or feature: Automatic systems for fire suppression & SS2 - Emergency warning systems						
351-	A full explanation of why the required inspection, maintenance of reporting procedures have not been carried						
	out for the 12 months prior to the anniversary date of the Compliance Schedule and what corrective action						
1)	has been undertaken to eliminate any reoccurrence. As per the previous correspondence with the Council, Argest are unable to source a Form 12A for						
''	SS1 and SS2 for the previous 12 months due to ongoing building work that has compromised the						
	overall compliance of the three sprinklers and the one fire alarm system on the schools site.						
	A statement that any remedial work and/or inspection and maintenance on the specified system/feature has						
	been carried out and that the specified system/feature is now in a compliant state and fully operational. An Argest report dated 20/06/2019 as supplied to Council identified several issues that need attention.						
2)	Saven were in hold. The Ministry and school as per the attached two reports, also supplied to Council						
have had these items completed. The Ministry and school will also ensure the balance of the item be completed as soon as possible but at present no later than the end of September. Under NZS4							
	thou are minor defects that should not hold up the issue of a form 12a.						
	A statement that an independent Qualified Person/licensed Building Practitioner has been and will continue						
	to be engaged to inspect, maintain and report on the specified system/feature.						
3)	Argest as from 1 July have appointed MBM as the new Service Provider/IQP for the SS1 and SS2 systems on this site. They will undertake all required monthly testing, annual surveys etc so this						
	should ensure a clean Form 12a is available for next years' BWOF, at least for the last 10 months.						
	A statement that the ongoing inspection, maintenance and reporting procedures will be carried out to permit						
4)	a 12A certificate to be issued for that specified system/feature on the next and subsequent anniversaries of the issued Compliance Schedule.						
"	Response: As above						
In addi	ition to the report						
0/2	The building warrant of fitness supplied must reflect the number of months the warrant has been issued for.						
) _{ii)}	A statement or report must be provided from the IQP/LBP supporting the assertion made in item 2 & 3 of the						
W)	report.						
Note:	This report must be signed by the Owner or Owners agent (being a person that is not the IQP/LBP involved).						
	Allise.						
Signati	ure of Owner or Owner's agent:						
Full na	me of Owner or Owner's agent: Rob Wilson, Contract Manager Argest						
	16 July 2019						
<u> </u>							

dormakaba

dormakaba New Zealand Ltd 61-69 Patiki Road Avondale, 1026 Auckland New Zealand Ph: 0800 788 688 www.dormakaba.com.nz

FORM 12A

Certificate of Compliance with Inspections, Maintenance and Reporting Procedures Form 12A Section 108 (3) (c), Building Act 2004

The Building

Legal Land Description:

Lot 3 DP 17801

Building Name:

Cashmere High School (ATS 340) 172 Rose Street Christchurch 8041

Building Address:

CS Number:

Ministry of Education, PO Box 10-145 Wellington

Owner Details: Contact Person:

Argest Technical services

Compliance:

The inspection, maintenance and reporting procedures of the Compliance Schedule have been fully complied with during the 12 months prior to the date stated below in relation to the following specified systems/s:

SS3/1 - Automatic Doors;SS3/2 - Access Control Door(s)

Comments/Remedial Action:

Name of Company:

dormakaba NZ Limited

Name of IQP:

Angela McMahon IQP No 422

Signature:

Date:

FORM 12A SECTION 108 (3) (C) BUILDING ACT 2004

CERTIFICATE OF COMPLIANCE WITH INSPECTIONS MAINTENANCE AND REPORTING PROCEDURES

THE BUILDING			
Building Name: CASHMERE HIGH SCHOOL	Legal Description of land where building is located:		
	Lot 5 Deposited Plan 9847, Lot 2,3,4,10 Deposited Plan 9938		
Street address of Bullding: 172 ROSE STREET, CHRISTCHURCH,	Location of Building within site/block number: As per latest Compliance Schedule		
Level/Unit Number: Refer to actual BWOF.	Compliance Schedule No; WOF51725		
THE OWNER	. (1)		
Name of Owner: Ministry of Education, Property Management Group, National Office, Wellington.	Contact Person: Argest Technical Services Limited, as owners' authorised agent.		
Malling Address: PO Box 1666 Wellington, but refer to Argest as agent.	Street Address/Registered Office: Argest, Ground Floor, 155 The		
OMPLIANCE	Terrace, Wellington, postal, PO Box 10145 Wellington.		
**************************************	compliance schedule have been fully complied with during the		
12 months prior to the date stated below in relation to the fol	: compliance scrigorie navelbeen fully complied with during the		
SPECIFIED SYSTEMS – as per Compliance Schedules issued un	cm. 19A		
SS1-Automatic systems for fire suppression	\$510-Building maintenance units		
SS2-Emergency warning systems	, SSII-Laboratory fume cupboards		
SS3/1-Automatic door	S512/1-Audio loops		
SS3/2-Access controlled doors	SS12/2-FM & infrared transmission systems		
\$\$3/3-Interfaced fire or smoke doors or windows	SS13/1-Mechanical smoke control		
SS4-Emergency lighting systems	SS13/2-Natural smoke control		
SS5-Escape route pressurisation systems	SS13/3-Smoke curtain		
SS6-Riser mains	SS14/1-Emergency power systems		
SS7-Automatic Backflow Preventer's	SS14/2-Signs		
SS8/1-Passenger carrying lift	SS15/1a-Spoken information to facilitate evacuation		
SS8/2-Service lift	SS15/2b-Final exits		
SS8/3-Escalator & moving walk	SS15/3c-Fire separations		
S59-Mechanical ventilation/air conditioning systems	SS15/4d-Signs for facilitating evacuation		
	/ SS15/5e-Smoke separations		
Comments; such as numbers of units, locations etc.			
Name of IQP (Please Print):	TA No: 60		
D' Donc Dumis	1D No: 340		
A S	BWOF due: 01 May		
Name of IQP Company: SG-S NZ CT	1QP Number: 649		
Signature of IQP:	Date: 3 · 5 - 19		

Rev.19/06/17

Profile ID: 340

SS7 BACKFLOW PREVENTOR FORM 12A AND TEST SHEET Section 108 (3) (c), Building Act 2004 and AS/NZS 2845.3

BUILDING AND OWNER DETAILS					
Building Name: CASHMERE HIGH SCHOOL	L	egal Description of I ot 5 Deposited Pla lan 9938			50 A
Street address of Building: 172 ROSE STREET	- 1	ocation of Building (test Compliance S		umber:	Asper
Level/Unit Number:	C	ompliance Schedule	No: WOF51725		
Name of Owner: Ministry of Education, Property Management Group, National Office, Wellington.	M	ontact Person: Arge anagement, as ow	ners' authorised	agent.	
Mailing Address: PO Box 1666 Wellington, but refer to Argest as agent.	St W	reet Address/Regist ellington, but refer t	ered Office; 45-47 o Argest as Agent	Pipitea	St
Make of Device APPOLLO		Model Number	RPAUL	F41	7
Serial Number 801885		Size SCA	K1		
Type of Protection: (Please Tick) Individua	ΙΠ°	Zone \⊅	Containn	nent	
Exact Location on Device: OUTSIDE So	, ° , E	Nee Blo	· · · · · · · · · · · · · · · · · · ·		
Reduced Pressure Devices Relief Val	ve	Pressure Vac			Gap
Double Check Devices		Air Inlet	Check Valve	Dist	ance
Tr Check 2nd Check DC-closed tight DC-closed tight RP	:	Opened at:	kPa	YES	NO
Leaked Leaked		Did Not Open 📙	Leaked		
The inspection, maintenance, and reporting pr fully complied with during the 12 months, prio	r to t	he test date show	nn.		been
Test Date 2.3 - 1 - 20 18 Result (Pl	ease	·Tick) P	ass ☑ Fa	ail o	
IQP (Please Print)		Testing Device (Please Print)		
IQP Name M Cloake		Gauge make	wilkins.	****	
IQP No664,		Gauge Serial No.	05161519	********	****
IQP Signature		Gauge Last Teste	d		
Comments NEW BACKE bus	١	******************			
				_	

NOTE; This test report only constitutes an assessment of existing devices and does not mean ALL cross connections on site have been addressed. Neither does it mean the existing devices are appropriate for the hazard. Cross connections are a major PUBLIC HEALTH RISK and are the owner's responsibility to ensure they are addressed. Rev. 7 Nov 2016

FORM 12A SECTION 108 (3) (C) BUILDING ACT 2004

CERTIFICATE OF COMPLIANCE WITH INSPECTIONS MAINTENANCE AND REPORTING PROCEDURES

THE BUILDING	
Building Name: CASHMERE HIGH SCHOOL	Legal Description of land where building is located: LOT 1 DEPOSITED PLAN 484182
Street address of Building: 172 ROSE STREET	Location of Building within site/block number: Refer to actual BWOF.
Level/Unit Number: Refer to actual BWOF.	Compliance Schedule No: WOF51725
THE OWNER	
Name of Owner: Ministry of Education, Property Management Group, National Office, Wellington.	Contact Person: Argest Building and Compliance Management as owners' authorised agent.
Malling Address: PO Box 1666 Wallington, but refer to Argest as agent.	Street Address/Registered Office: Argest, Ground Floor, 155 Th Terrace, Wellington, postal, PO Box 10115 Wellington.
COMPLIANCE	
The inspection, maintenance, and reporting procedures of the the 12 months prior to the date stated below in relation to the	following specified system/st
SPECIFIED SYSTEMS as per Compliance Schedules issued	under Building Act 2004
SS1-Automatic systems for fire suppression	SS10-Building maintenance units
SS2-Emergency warning systems	S511-Laboratory fume cupboards
SS3/a-Automatic door	SS12/2-Audio loops
553/2-Access controlled doors	SS12/2-FM & infrared transmission systems
SS3/3-Interfaced fire or smoke doors or windows	SS13/1-Mechanical smoke control
SS4-Emergency lighting systems	SS13/2-Natural smoke control
SS5-Escape route pressurisation systems	SS13/3-Smoke curtain
SS6-Riser mains	SS14/1-Emergency power systems
SS7-Automatic Backflow Preventer's	S514/2-Signs
✓ SS8/a-Passenger carrying lift	S515/1a-Spoken information to facilitate evacuation
SS8/2-Service lift	SS15/2b-Final exits
S58/3-Escalator & moving walk	SS15/3c-Fire separations
SS9-Mechanical ventilation/air conditioning systems	SS15/4d-Signs for facilitating evacuation
	SS15/5e-Smoke separations
Comments; such as numbers of units, locations etc.	
Cone Hydro Star Direct Acting Passenger Lift No.1(Ac	lmin Block) Code: NZBC D2/AS2 using NZS4332
Otis Hydroline Direct Acting Passenger Lift No.2 (S Blo	ock) Code: NZBC D2/AS1 using 1980 Power Lift Rules
Cone MRL Passenger Lift No.3 (B Block) Code: N	IZBC D2/AS1 using EN81/1
	NZBC D2/AS1 using EN81/1
	IZBC D2/AS2 using Alternative Solution
Majntenance Contractor: Kone Elevators Pty Ltd, Unit	
Jame of IQP (Please Print): Murray Barr	TA No: 60
	ID No: 340 BWOF due: 01 May
A. (A.)-(1.)	IQP Number: 521
lame of IQP Company: Vertrans Associates (NZ) Ltd	ICP Number: 5xx
Signature of IQP:	Date: 12 March 2019
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FORM 12A SECTION 108 (3) (C) BUILDING ACT 2004

CERTIFICATE OF COMPLIANCE WITH INSPECTIONS MAINTENANCE AND REPORTING PROCEDURES

THEBUILDING	
Building Name: CASHMERE HIGH SCHOOL	Legal Description of land where building is located: Lot 5 Deposited Plan 9847, Lot 2,3,4,10 Deposited Plan 9938
Street address of Building: 172 ROSE STREET, CHRISTCHURCH,	Location of Building within site/block number: As per latest Compliance Schedule
Level/Unit Number: Refer to actual BWOF.	Compliance Schedule No: WOF51725
THEOWNER	
Name of Owner: Ministry of Education, Property Management Group, National Office, Wellington.	Contact Person: Argest Technical Services Limited, as owners' authorised agent.
Mailing Address: PO Box 1666 Wellington 6140, but refer to Argest as agent.	Street Address/Registered Office: 45-47 Pipitea St Wellington, but refer to Argest as Agent.
COMPLIANCE	<u> </u>
The inspection, maintenance, and reporting procedures of the the 12 months prior to the date stated below in relation to the	e following specified system/s:
SPECIFIED SYSTEMS – as per Compliance Schedules issued	d under Büllding Act 2004
SS1-Automatic systems for fire suppression	S\$10-Building maintenance units
SS2-Emergency warning systems	SS11_Laboratory filme cuphoards
SS3/1-Automatic door	S\$12/1-Audio loops
SS3/2-Access controlled doors	SS12/2-FM & infrared transmission systems
SS3/3-Interfaced fire or smoke doors or windows	SS13/1-Mechanical smoke control
SS4-Emergency lighting systems	SS13/2-Natural smoke control
SS5-Escape route pressurisation systems	SS13/3-Smoke curtain
S56-Riser mains	SS14/1-Emergency power systems
SS7-Automatic Backflow Preventer's	\$514/2-Signs
SS8/1-Passenger carrying lift	SS15/1a-Spoken information to facilitate evacuation
SS8/2-Service lift	SS15/2b-Final exits
SS8/3-Escalator & moving walk	SS15/3c-Fire separations
✓ SS9-Mechanical ventilation/air conditioning systems	SS15/4d-Signs for facilitating evacuation
	SS15/5e-Smoke separations
Comments; such as numbers of units, locations etc.	
Name of IQP (Please Print): M Cloake	TA No: 60 ID No: 340 BWOF due: 01 May
Name of IQP Company: Argest	IQP Number: 664
Signature of IQP:	Date: 8/2/2019

Rev. 09/07/2018