

2024

Inspection of Automatic Sprinkler System

ASIB



Inspection of Automatic Sprinkler System

Sundale Dairy - East London Industrial
Development Zone

Complete

Client/Site Name

Sundale Dairy - East London Industrial Development Zone

Billing Address

East London Industrial Development Zone SOC Ltd P O Box 5458 GREENFIELDS
5208

Attention:

Mteteleli Zantsi
Camagwini Ngxokolo-Nomatye

Document No

UNC.4761

Prepared by

Keith van Onselen

Conducted on

19.06.2024 08:05 SAST

Site Location

East London IDZ EC 5201 South
Africa

Disclaimer

We have pleasure in attaching our inspector's report.

Whilst every care is taken in the preparation of the report which describes the conditions as found, such report is not a guarantee carrying responsibility for results and neither this Company nor any of its employees or agents shall be liable for any loss or damage of whatsoever nature and howsoever caused, (whether by actual or alleged negligence or otherwise), in any way arising out of the acts or omissions of the Company and/or its employees or agents aforesaid.

The report is based upon the visual inspection of the external condition of the equipment where accessible without having to provide scaffolding, ladders, staging, lighting and not requiring the removal or displacement of any temporary or permanent structure, fitting or fixture.

If there are any points arising on which you require clarification, kindly communicate with the undersigned. Assuring you of our best attention at all times.

Confidentiality

In order to maintain the integrity and credibility of the inspection processes and to protect the parties involved, it is understood that the inspectors will not divulge to unauthorized persons any information obtained during this inspection unless legally obligated to do so.

Yours faithfully,

THE AUTOMATIC SPRINKLER INSPECTION BUREAU (PTY) LIMITED



Nico van Loggerenberg
Managing Director

1. Report Summary

THE AUTOMATIC SPRINKLER INSPECTION BUREAU (PTY) LIMITED



REGISTRATION NUMBER: 1970/010833/07

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INDEPENDENT
THIRD PARTY
INSPECTION AND
ADVISORY
SERVICE SINCE
1970

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Code

C - Full Protection, Clearance
Certificate not Issued

Clearance certificate withheld due to the following:

Storage - See Report



Sprinkler System - Excessive Fault



Standard

10th Edition

12th Edition

ASIB Contract No

UNC4761

Client Order No

004203

Was the sprinkler system design in order

Yes

Was the water supplies in order

Yes

Refer to report UNC9004 Estate Pump House conducted on 08/05/2024

Was the pump room in order

Yes

Refer to report UNC9004 Estate Pump House conducted on 08/05/2024

Was the installation control valves in order

No

Refer to Installation Control Valves - Section 7.

Was the storage in order

No

- Refer to Occupancy & Storage Guidance - Section 3.
 - Refer to Storage - Section 8.
-

2. Hand Fire Appliances

Hose Reels - 30 metres



Number:

28

Hand Fire Appliances - One unit per 100 m² of floor area.

DCP 9 kg



Number:

83

DCP 4,5 kg



Number:

3

CO² Gas 5 kg



Number:

1

CO² Gas 2 kg



Number:

1

Other



Specify

Hydrants

Number:

6

Clear access to the hand fire appliances must be maintained at all times.

3. Occupancy & Storage Guidance

Percentage Hazard.

% Ordinary Hazard

15
From 0 to 100

% High Hazard

85
From 0 to 100

Stack height signs not less than 500 mm by 500 mm in size must be prominently displayed at the maximum level of the allowable storage height in all storage and process risk areas.

Occupancy / Process Risk

Occupancy/Risk

Occupancy/Risk 1

► **Ordinary Hazard / High Hazard**

High Hazard

► **Select Occupancy / Process Risk**

Process Risk

Storage Risk

Specify Process

Dairy processing

Category

CAT II

Design Density (mm/min)

7,5 mm/min

Where goods of differing categories are stored within the same area, it is the stack height limitations of the goods with the highest category that will apply.

► **Product Stored**

Dairy Products in Plastic Containers

Category

CAT III

Storage

Method

Method 1

Storage Method

Free Standing / Block Storage

Design Density (mm)	7,5 mm/min
Roof Height (m)	12
Storage Height (m)	2,9
Method 2	
Storage Method	Shelving
Design Density (mm)	7,5 mm/min
Roof Height (m)	12
Storage Height (m)	2,2
Occupancy/Risk 2	
► Ordinary Hazard / High Hazard	High Hazard
► Select Occupancy / Process Risk	
	Process Risk Storage Risk
Specify Process	
Cheese manufacturing	
Category	CAT III
Design Density (mm/min)	10,0 mm/min
Where goods of differing categories are stored within the same area, it is the stack height limitations of the goods with the highest category that will apply.	
► Product Stored	
Dairy products(dry store)	
Category	CAT III
Storage	
Method	
Method 1	

Storage Method	Free Standing / Block Storage
Design Density (mm)	15 mm/min
Excessive clearance was taken into account and the design density is 16,5mm/min.	
Roof Height (m)	12
Storage Height (m)	
3,5	

4. Sprinkler System Design

Building

Building 1

Building Name

Sundale Dairy - Milk and cheese processing and cold rooms

Date of First Inspection

Unknown

Original Installer

Unknown

Extension By

Fire Suppression Solutions

Building Area m²

12100

Height of Building in meters

12

Sprinkler Detail

Area

Area 1

► Area & Type of Sprinklers

Roof Sprinklers

Ceiling Sprinklers

Void Sprinklers

Cold Room Sprinklers

Number of Sprinklers

2014

Calculations

Hydraulic Calculations

Area of Operation

Area of Operation 1

► Area of Operation

Pump Duty

Flows & Pressures

9000 l/min @ 1000 kPa

Area of Operation 2

► Area of Operation

P - Max

Flows & Pressures

6412 L/min @ 958 kPa

Area of Operation 3

► Area of Operation

Q - Max

Flows & Pressures

6447 L/min @ 956 kPa

Area of Operation 4

► Area of Operation

Roof Most Remote Area of
Operation

Flows & Pressures

V1 cheese processing
2560 L/min @ 455 kPa

Area of Operation 5

► Area of Operation

Roof Most Favourable Area of
Operation

Flows & Pressures

V1 cheese processing
2420 L/min @ 200 kPa

Area of Operation 6

► Area of Operation

Roof Most Remote Area of
Operation

Flows & Pressures

V2 cheese processing
2560 L/min @ 395 kPa

Area of Operation 7

► Area of Operation	Roof Most Favourable Area of Operation
Flows & Pressures V2 cheese processing 2420 L/min @ 220 kPa	
Area of Operation 8	
► Area of Operation	Roof Most Remote Area of Operation
Flows & Pressures V3 old section 2435 l/min @ 495 kPa	
Area of Operation 9	
► Area of Operation	Roof Most Remote Area of Operation
Flows & Pressures V4 void and SOS cheese slices 2430 l/min @ 420 kPa	
Area of Operation 10	
► Area of Operation	Roof Most Favourable Area of Operation
Flows & Pressures V4 void and SOS cheese slices 2360 l/min @ 195 kPa	
Additional Sprinkler System Designs Required	No

5. Water Supplies

► Water Stored on Site.

Yes

Refer to report UNC9004 Estate Pump House conducted on 08/05/2024

Add Water Storage Tanks

6. Pump Room

Pump Installed on Site

Yes

Refer to report UNC9004 Estate Pump House conducted on 08/05/2024

Add Pump House

7. Installation Control Valve(s)

7.1 Sprinkler control valves accessible

Yes

Valve Cabinet

Valve Cabinet 1

Location:

Opposite right of security gate



Photo 1



Photo 2

Number of Alarm Valves Installed

2 x 150mm

7.2 Sprinkler Valve Location Plate Installed

Yes

7.3 Fire Brigade Booster Pressure Limitation Plate

Yes

7.4 Block Plan Installed

Yes

7.4.1 Is the block plan labelled in accordance with the areas fed by the sprinkler control valve assemblies

Yes

7.4.2 Are the correct installation details recorded on the block plan

Yes



Photo 3

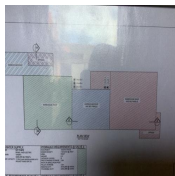


Photo 4

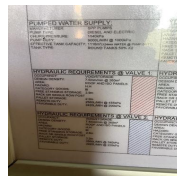


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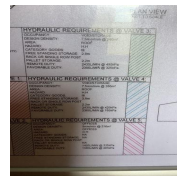


Photo 6

7.5 Sprinkler Valve Instruction Chart

Yes

7.6 Is a sprinkler spares box present

Yes

7.6.1 Was the spares box contents accessible

Yes

7.6.2 Are the spares quantities correct

Yes

7.7 By Pass Arrangement Installed

Yes

7.8 Fire Brigade Booster Connections Installed Correctly and Accessible

No

Installations must be fitted with fire brigade booster connections which will enable the fire brigade to pump water into the installation using their own equipment.

It is recommended that the fire brigade pressure booster inlets must be repositioned so that they are located external to the installation control valve cabinet and easily accessible.

**7.9 Are the Installation Control Valves Housed within an Approved Valve Cabinet**

Yes

Sprinkler protection is required within the valve cabinet

**7.10 Flow Switch Installed Correctly**

No

The flow switch must be fitted downstream from the alarm valve with a 25mm test pipe installed at least 2 pipe diameters downstream of the flow switch.

7.11 Manifold Correctly Supported

Yes

7.12 Riser Mains Correctly Supported

Yes

7.13 Riser Mains Externally Located

No

7.14 Flow Measuring Device Installed.

Yes

Flow Test Results

Pass



Photo 7



Photo 8

Recorded Flow and Pressure

2700 l/min @ 900 kPa

7.15 Correct Pressure Gauges Installed

Yes

7.16 Correct Gauge Cocks Installed

Yes

7.17 Flanges Short Bolted

No

7.18 Loose / Missing Bolts, Nuts & Washers

No

7.19 False Alarm Prevention Pump Installed

N/A

7.20 Drain & Test Pipes Installed Correctly

Yes

7.21 Weekly tests of the installation control valves alarm bell must be carried out with the alarms sounding for at least thirty seconds.

All water pressure gauge readings must be checked and recorded.

The testing and records should be carried out by a member of staff delegated to do this.

7.22 Trunk Main Pressure (kPa)

1200

7.23 Installation Pressure (kPa)

1200

7.24 ASIB Overhaul Date Tag No

New Installation

The installation control valves must be overhauled three years after date of installation by an ASIB approved and registered installer, and once every 3 years thereafter. An ASIB valve overhaul date tag must be attached to the valve set after completion of the overhaul.

7.25 Alarm Motor & Gong Test

Passed

7.26 Are All Valves in the Correct Positions

Yes

7.27 Are All Valves Secured

No

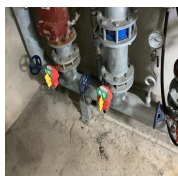


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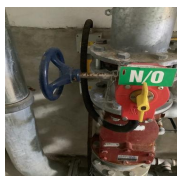


Photo 10

All valves must be secured in their correct operative positions with light chains and padlocks that are keyed alike.

Valve Cabinet 2

Location:

West side of building. Left from security gate



Photo 11



Photo 12

7.2 Sprinkler Valve Location Plate Installed

No

A valve location plate must be affixed on an external wall, as near to the main stop valve as possible.

7.3 Fire Brigade Booster Pressure Limitation Plate

Yes

7.4 Block Plan Installed

Yes

7.4.1 Is the block plan labelled in accordance with the areas fed by the sprinkler control valve assemblies

Yes

7.4.2 Are the correct installation details recorded on the block plan

Yes



Photo 13

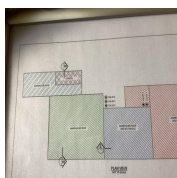


Photo 14

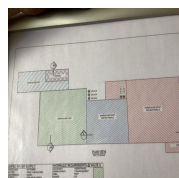


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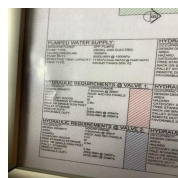


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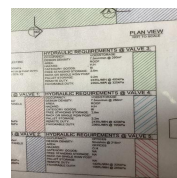


Photo 17

7.5 Sprinkler Valve Instruction Chart

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Yes

7.6.1 Was the spares box contents accessible

Yes

7.6.2 Are the spares quantities correct

Yes

7.7 By Pass Arrangement Installed

Yes

7.8 Fire Brigade Booster Connections Installed Correctly and Accessible

No

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It is recommended that the fire brigade pressure booster inlets must be repositioned so that they are located external to the installation control valve cabinet and easily accessible.

**7.9 Are the Installation Control Valves Housed within an Approved Valve Cabinet**

Yes

Sprinkler protection is required within the valve cabinet

7.10 Flow Switch Installed Correctly**No**

The flow switch must be fitted downstream from the alarm valve with a 25mm test pipe installed at least 2 pipe diameters downstream of the flow switch.

7.11 Manifold Correctly Supported**No**

Not bolted

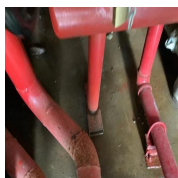


Photo 18

The valve manifold must be adequately supported.

7.12 Riser Mains Correctly Supported**No**

The riser main must be properly supported in accordance with the rules.

7.13 Riser Mains Externally Located**No****7.14 Flow Measuring Device Installed.****Yes****Flow Test Results****Pass****Recorded Flow and Pressure****2700 l/min @ 900 kPa****7.15 Correct Pressure Gauges Installed****Yes****7.16 Correct Gauge Cocks Installed****Yes****7.17 Flanges Short Bolted****No****7.18 Loose / Missing Bolts, Nuts & Washers****No****7.19 False Alarm Prevention Pump Installed****N/A****7.20 Drain & Test Pipes Installed Correctly****Yes**

7.21 Weekly tests of the installation control valves alarm bell must be carried out with the alarms sounding for at least thirty seconds.

All water pressure gauge readings must be checked and recorded.

The testing and records should be carried out by a member of staff delegated to do this.

7.22 Trunk Main Pressure (kPa)

670

7.23 Installation Pressure (kPa)

900

7.24 ASIB Overhaul Date Tag No

Yes

Last Overhaul Date

2020

Next Overhaul Date

2023

The next valve overhaul is now overdue. This must be carried out immediately and once every 3 years thereafter. A new ASIB overhaul date tag must be attached after each valve overhaul.

**7.25 Alarm Motor & Gong Test**

Failed

7.26 Are All Valves in the Correct Positions

Yes

7.27 Are All Valves Secured

Yes

Non Compliance - Items

Recommendation Items

8. Storage

High Hazard



In all High Hazard areas a clear space of not less than 1,0 metre must be maintained between top of stored goods and sprinkler deflector.

Free Standing Block Storage and aisle widths are not being maintained.



No block of storage shall exceed 150 m² of floor area and shall be surrounded by aisle widths of not less than 2,4 m.

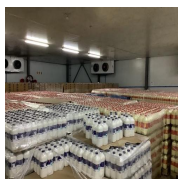


Photo 19



Photo 20

Are the storage heights exceeded.

Yes



Photo 21



Photo 22



Photo 23



Photo 24

The storage heights must be maintained in accordance with the maximum allowable stack heights as detailed in this report. Should this not be possible, intermediate level protection is deemed to be mandatory.

Are Excessive Height Conditions Applicable

Yes

Does the system design cater for the excessive height condition.

Yes

Shelves exceed 1,0 metre in width.



The shelves must be reduced to a maximum width of 1,0 metre or intermediate sprinkler protection will be mandatory at each shelf tier level.

Location:

Bottle store label shelves



Photo 25

9. Sprinkler System

Sprinkler System

Area

Area 1

Specified Area.

Other

Specify Area

Factory

System Issue

Issue

Issue 1

Finding

Other

Specify Other.



Corrosion is evident on the sprinkler pipe work and must be addressed by your installer.

Location of Finding.

Low level roof packing
Butter room

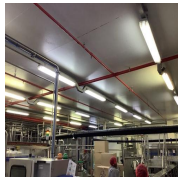


Photo 26

Issue 2

Finding

Sprinkler Spacing

Sprinkler protection must be extended in order to provide correct coverage.



Sprinklers are out of effective working distance.



Location of Finding.

Entrance from reception and butter room



Photo 27

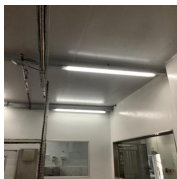


Photo 28

Issue 3

Finding

Sprinkler Heads

Distribution pattern of sprinklers affected.



Location of Finding.

Mixing room
Dry store

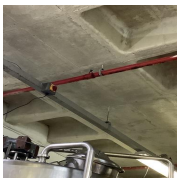


Photo 29

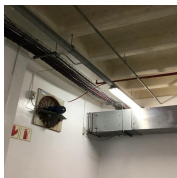


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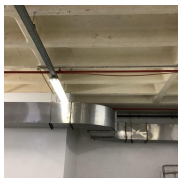


Photo 31

Issue 4

Finding

Sprinkler Heads

Painted sprinklers.



Location of Finding.

Mixing room
Dry store

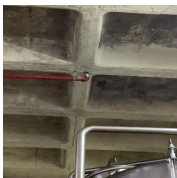


Photo 32

Issue 5

Finding

Sprinkler Spacing

Sprinklers exceed 1500 mm from walls of a cold room or freezer (10th Edition).



Sprinkler spaced to close to a wall or partitioning - the minimum distance a sprinkler may be from a wall or partition shall not be less than 150 mm. ☒

Location of Finding.

Mezzanine



Photo 33



Photo 34

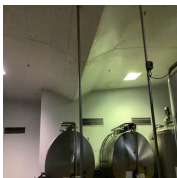


Photo 35

Issue 6

Finding	Pipe Support
----------------	--------------

Terminal hangers on distribution pipes are exceeding the maximum distance of 450 mm from the end of the distribution pipe. ☒

Location of Finding.

Crating area



Photo 36

Issue 7

Finding	Sprinkler Heads
----------------	-----------------

Distribution pattern of sprinklers affected. ☒

Location of Finding.

Crating



Photo 37

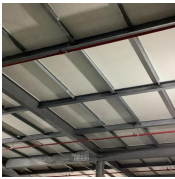


Photo 38

Issue 8

Finding

Sprinkler Spacing

Sprinklers are out of effective working distance.



Location of Finding.

Crating. Low level high level ceiling
Mixing room



Photo 39



Photo 40



Photo 41

Issue 9

Finding

Partial Protection /
Communicating Areas

Portion of premises sprinkler protected with communicating sections that are not.



Partial protection can lead to a fire originating in the protected area radiating heat into the unprotected portion of the premises and starting secondary fires. The heat from these fires radiates or spreads back into the protected area causing excessive sprinkler operation.

Conversely, a fire originating in the unprotected portion will radiate heat or spread into the protected portion rapidly causing unnecessary sprinkler operation and overwhelming the sprinkler system installed.

Location of Finding.

Link tunnel from crating to cut and wrap



Photo 42

Issue 10

Finding

Sprinkler Spacing

Sprinkler protection must be extended in order to provide correct coverage.



Sprinklers are out of effective working distance.



Location of Finding.

Area at door marked J and office



Photo 43

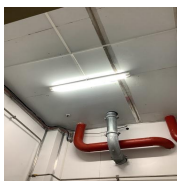


Photo 44

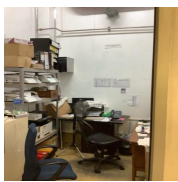


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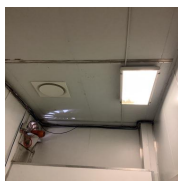


Photo 46

Issue 11

Finding

Sprinkler Heads

Distribution pattern of sprinklers affected.



Location of Finding.

Soft cheese

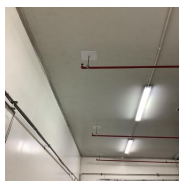


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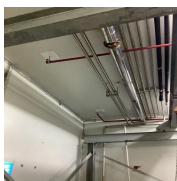


Photo 48

Issue 12

Finding

Pipe Support

1st range hangers are exceeding the maximum distance of 2,0 metres from the distribution pipe.



Location of Finding.

Soft cheese



Photo 49



Photo 50

Issue 13

Finding

Sprinkler Spacing

Sprinklers are out of effective working distance.



Sprinklers exceed 1500 mm from walls of a cold room or freezer (10th Edition).

☒

Location of Finding.

Soft cheese mincing area

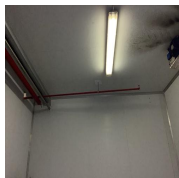


Photo 51

Issue 14

Finding

Pipe Support

Terminal hangers on distribution pipes are exceeding the maximum distance of 450 mm from the end of the distribution pipe.

☒

Location of Finding.

Soft cheese mincing area adjacent store



Photo 52

Issue 15

Finding

Sprinkler Spacing

Sprinkler spaced to close to a wall or partitioning - the minimum distance a sprinkler may be from a wall or partition shall not be less than 150 mm.

☒

Location of Finding.

Soft cheese fridge

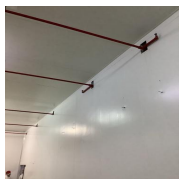


Photo 53

Issue 16

Finding

Partial Protection /
Communicating Areas

Enclosed structures not sprinkler protected.



A fire originating within an unprotected area will burn in an uncontrolled manner without alerting the sprinkler system unit until such time as it breaks out of the structure. The subsequent release of heat will operate multiple sprinklers at roof level above the fire area and remote from it causing massive damage.

Location of Finding.

Soft cheese chocolate grinding



Photo 54



Photo 55

Issue 17

Finding

Other

Specify Other.



Corrosion is evident on the sprinkler pipe work and must be addressed by your installer.

Location of Finding.

Crating passage

Issue 18

Finding

Sprinkler Heads

Distribution pattern of sprinklers affected.



Location of Finding.

Crating passage

Area 2

Specified Area.

External Canopies

System Issue

Issue

Issue 1

Finding

Pipe Support

Terminal hangers on distribution pipes are exceeding the maximum distance of 450 mm from the end of the distribution pipe.



Location of Finding.

North external canopy. Milk receiving



Photo 56



Photo 57

Area 3

Specified Area.

Other

Specify Area

Old despatch fridge

System Issue

Issue

Issue 1

Finding

Pipe Support

Sprinklers dropped below level of the ceiling.



Sprinklers must be re-fixed to their original intended operating position. The hanger supporting it must be checked and, if necessary, re-secured.

Location of Finding.

Composite ceilings



Photo 58



Photo 59

Issue 2

Finding

Sprinkler Spacing

Sprinklers are out of effective working distance.



Sprinklers exceed 1500 mm from walls of a cold room or freezer (10th Edition).



Location of Finding.

Various

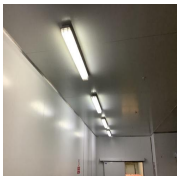


Photo 60

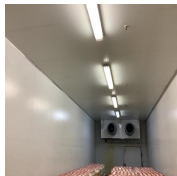


Photo 61

Issue 3

Finding

Sprinkler Spacing

Sprinklers too close together.



Conventional pattern sprinklers must be spaced a minimum of 2,0 meters apart and spray pattern sprinklers must be spaced a minimum of 1,8 meters apart which will prevent cold soldering.

Location of Finding.

Various



Photo 62



Photo 63

Issue 4

Finding

Partial Protection / Communicating Areas

Portion of premises sprinkler protected with communicating sections that are not.



Partial protection can lead to a fire originating in the protected area radiating heat into the unprotected portion of the premises and starting secondary fires. The heat from these fires radiates or spreads back into the protected area causing excessive sprinkler operation.

Conversely, a fire originating in the unprotected portion will radiate heat or spread into the protected portion rapidly causing unnecessary sprinkler operation and overwhelming the sprinkler system installed.

Location of Finding.

New despatch fridge



Photo 64



Photo 65



Photo 66

Area 4

Specified Area.

Other

Specify Area

Bottle store

System Issue

Issue

Issue 1

Finding

Sprinkler Heads

The sprinkler heads and piping within the system are over 25 years of age.



10 sprinkler heads from various areas must be removed, labeled and sent for testing to determine if they still operate as intended. Should one of these sprinklers fail to operate within its predetermined limits, the sprinklers within your system will need to be replaced. Should the results of the test prove that the sprinklers are adequate, a test of the sprinklers must be carried out every 5 years thereafter.

We strongly recommend that all of the sprinklers over 25 years of age within the building be replaced with new ones as the type of sprinklers that are to be sent for testing may no longer be manufactured and therefore will not be able to be replaced. It must be noted that it will not be acceptable to install sprinklers of differing types, manufacturers, operating temperatures or distribution patterns within the same area.

Location of Finding.

Roof

Issue 2

Finding

Sprinkler Heads

Upright spray pattern sprinklers installed in the pendent position.



Location of Finding.

Entire store

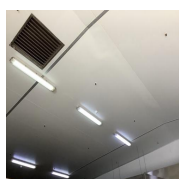


Photo 67

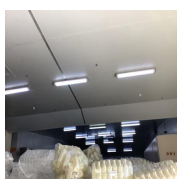


Photo 68

Issue 3

Finding

Sprinkler Spacing

Sprinklers exceed 1500 mm from walls of a cold room or freezer (10th Edition).



Location of Finding.

Generator room

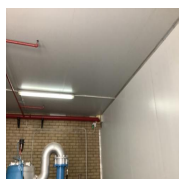


Photo 69

Issue 4

Finding

Sprinkler Spacing

Sprinkler protection must be extended in order to provide correct coverage.



Sprinklers are out of effective working distance.



Location of Finding.

Upper level dry goods store

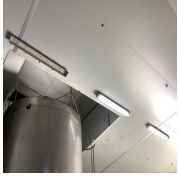


Photo 70



Photo 71



Photo 72

10. Proof of Inspection

Proof of inspection.


For and on behalf of client:



Camagwini Ngxokolo-Nomatye
23.06.2024 14:18 SAST

Proof of inspection.

ASIB Inspector:



Keith van Onselen
23.06.2024 14:18 SAST

WARNING

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The primary function of the ASIB is to protect the interests of the end user and as a result, we constantly update the list of registered suppliers and installing companies.

These companies have proven that they are capable of installing, extending and servicing fire sprinkler systems to the correct standards.

We have had occasion to remove companies for valid reasons which are not confidential and include, but are not limited to, poor workmanship, design, fabrication, incorrect advice, lack of skilled staff, fraudulent quotations and financial instability.

It is important to note that if a company is not listed with the ASIB and carries out work on a sprinkler system we will not be in a position to issue a Clearance Certificate for the premises which, in turn, may place you at risk.

In selecting your service provider, it is important to appreciate that the ASIB is not seeking to infer that a non-listed service provider is necessarily not capable of offering the required service to an appropriate standard. What the ASIB is saying, is that the ASIB is not in a position to give you the assurance that a non-listed provider concerned has demonstrated that it complies with the ASIB standards. In addition, because the ASIB is unable to fully inspect an installation (which by its nature has many inaccessible components), you will appreciate that the ASIB is also unfortunately not in a position to issue a Clearance Certificate in relation to an installation done by a non-listed company.

We advise you to check the listing status of the service provider you choose especially if there is any uncertainty.

You can access our website at <http://www.asib.co.za> which is current or phone our offices at 011 642 1703 for verification.

Email:

Email: 1

Recipient

Mteteleli@elidz.co.za

Email: 2

Recipient

camagwini@elidz.co.za

Media summary



Photo 1



Photo 2

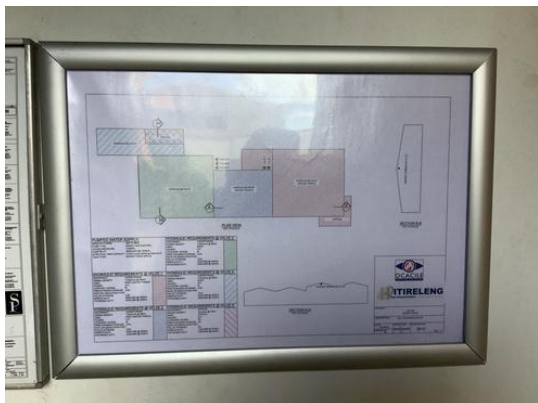


Photo 3

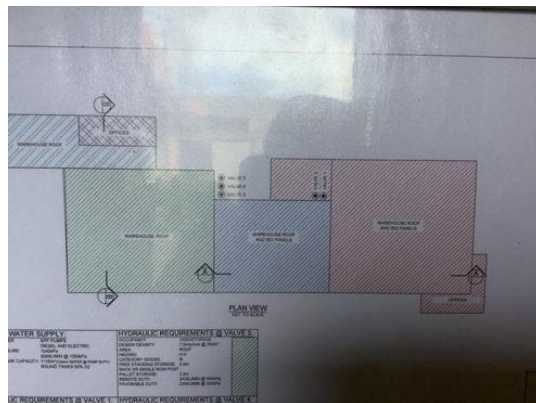


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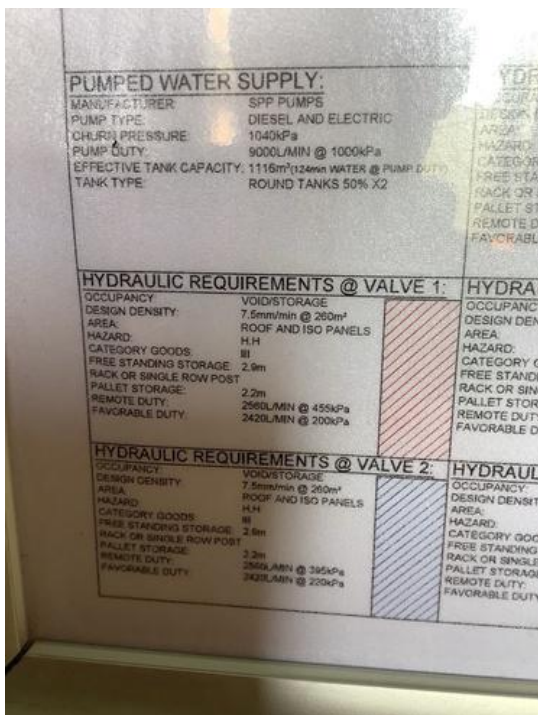


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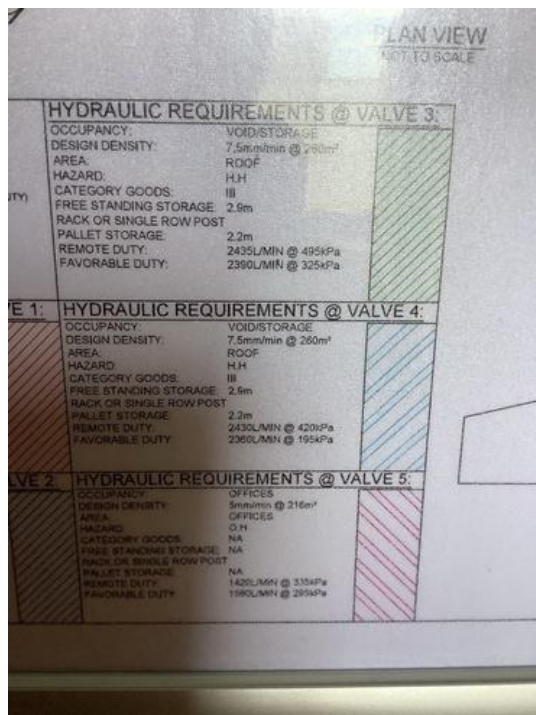


Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12

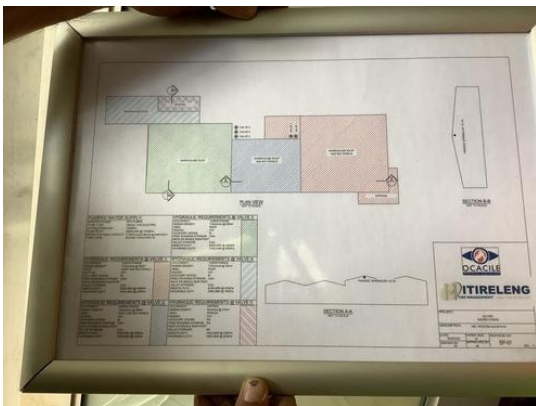


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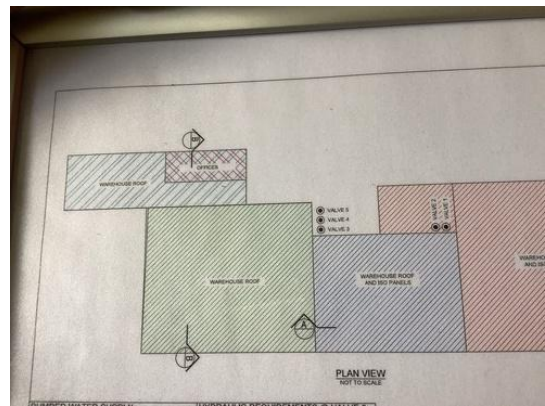


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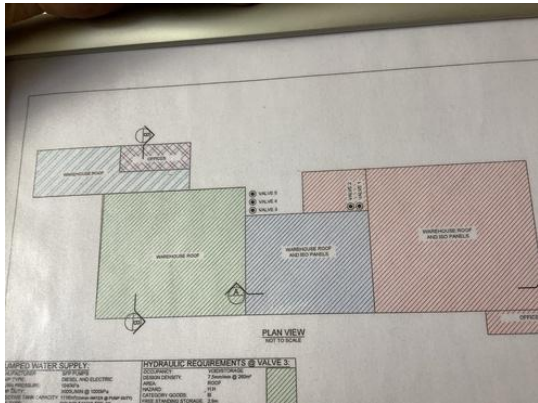


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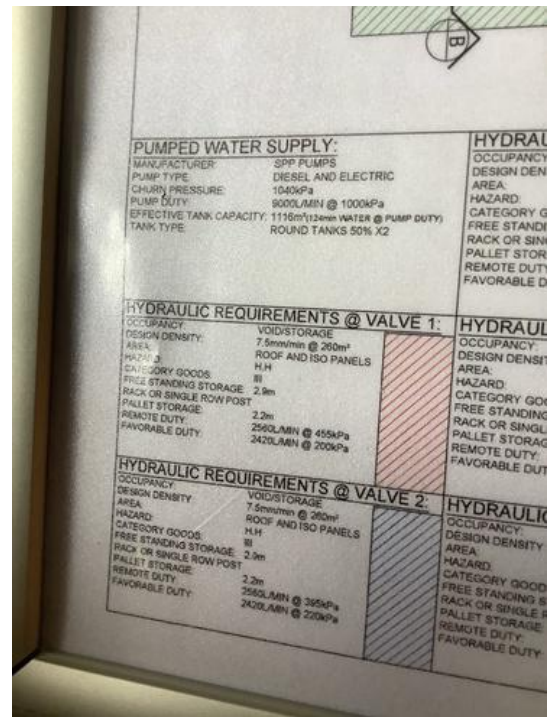


Photo 16

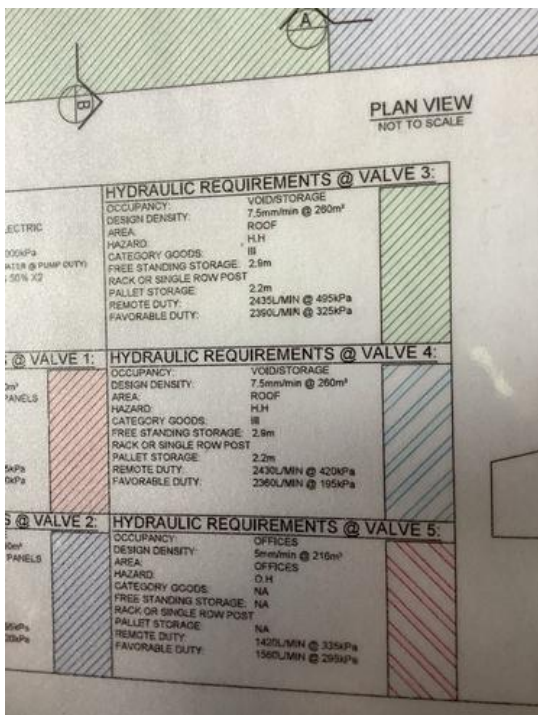


Photo 17

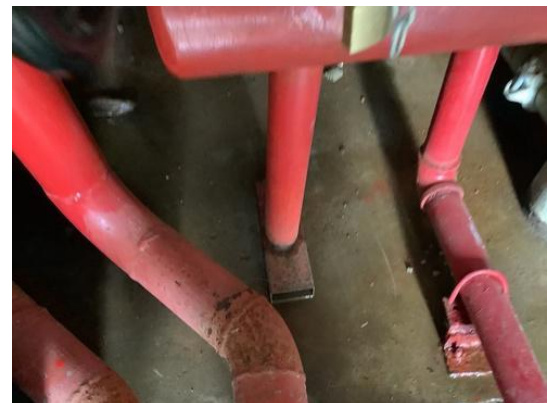


Photo 18



Photo 19



Photo 20



Photo 21



Photo 22



Photo 23



Photo 24



Photo 25



Photo 26



Photo 27



Photo 28



Photo 29



Photo 30



Photo 31



Photo 32



Photo 33



Photo 34

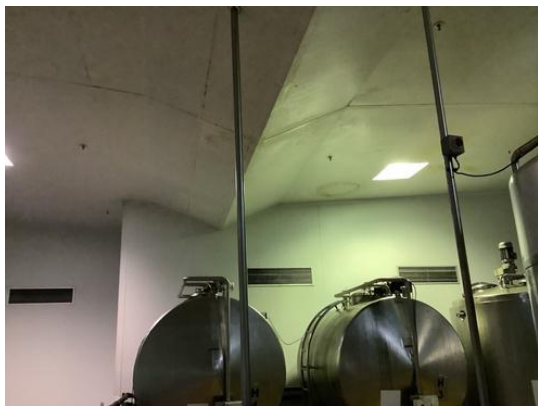


Photo 35



Photo 36



Photo 37



Photo 38



Photo 39



Photo 40



Photo 41



Photo 42



Photo 43

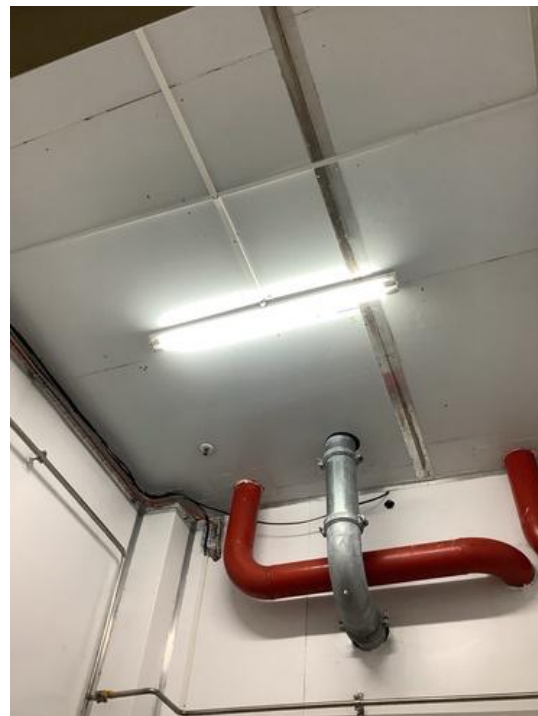


Photo 44



Photo 45



Photo 46



Photo 47



Photo 48



Photo 49



Photo 50

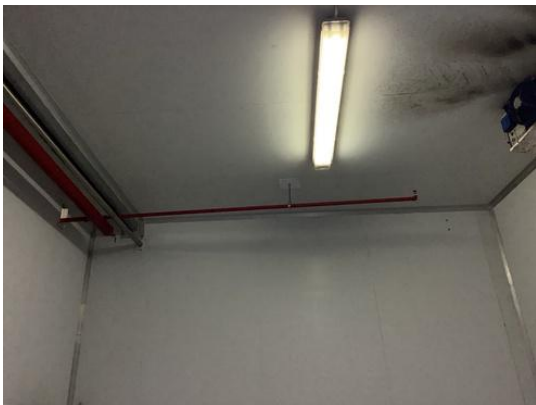


Photo 51



Photo 52

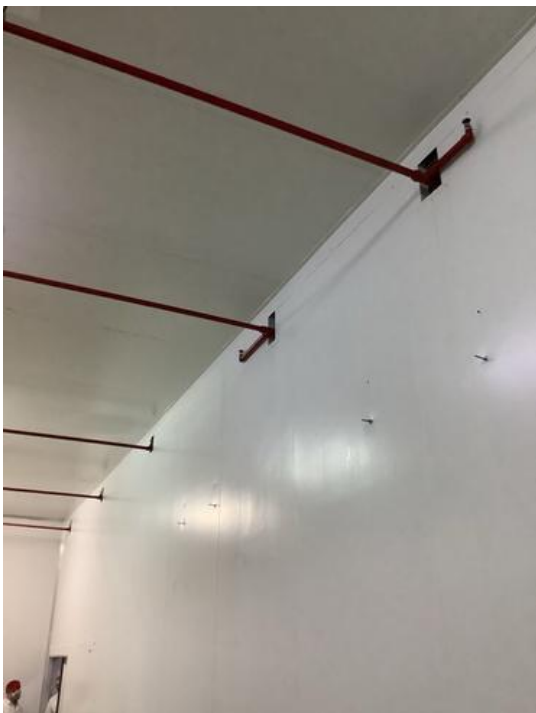


Photo 53



Photo 54



Photo 55



Photo 56



Photo 57



Photo 58



Photo 59



Photo 60



Photo 61



Photo 62



Photo 63

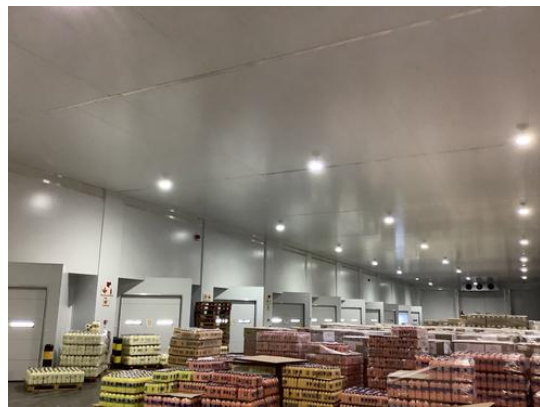


Photo 64



Photo 65

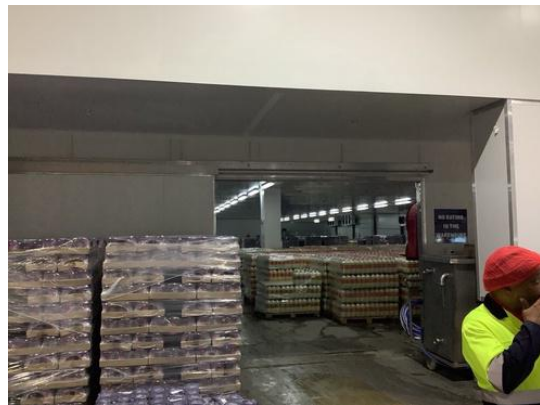


Photo 66



Photo 67



Photo 68



Photo 69



Photo 70



Photo 71

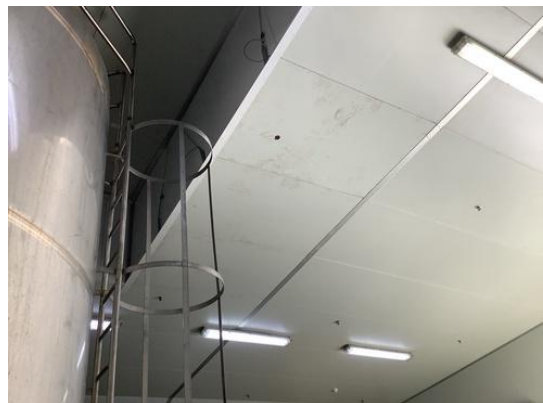


Photo 72