





#### LOCAL GOVERNMENT OFFICIAL INFORMATION AND MEETINGS ACT Request: 2023-42

Thank you for your email of 17 July 2023 to the Carterton District Council requesting the following information:

- "...What are all the non-compliance problems at GoZone?
  - Is the playground equipment bolted down? Does it need to be?
  - Does Go-Zone have a problem with emergency lighting or exits?
- What percentage is Go-Zone currently compliant with the Building Code and NZS5858:2015 playground standard?
- Has Go-Zone suggested a timeline for fixing its problems? How long will it take?
- Could Go-Zone be fined by WorkSafe for operating while non-compliant?..."

Your request has been considered under the Local Government Official Information and Meeting Act 1987 (the Act).

My response to your request is provided in the order below.

#### What are all the non-compliance problems at GoZone?

All non-compliances are detailed in the attached reports.

#### Is the playground equipment bolted down? Does it need to be?

Bolting the playground down is not something that (*referring to the attached documents as Appendix A*) the WSP report identifies as needing to be completed to achieve compliance. The issue is lateral (sideways) movement in the large structure.

#### Does Go-Zone have a problem with emergency lighting or exits?

The fire system upgrade which has been signed off by Council, required additional emergency lighting to be installed. This work has been done to the satisfaction of Council. The PlaySafe report has identified some additional work that sits outside of the building code and Council's jurisdiction.



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## What percentage is Go-Zone currently compliant with the Building Code and NZS5858:2015 playground standard?

The number NZS5858:2015 which you are referring to is a different standard to the Building Code. The PlaySafe report and the WSP reports address the compliance matters that need to be addressed in order for Council to issue a Certificate of Acceptance under the Building Act.

#### Has Go-Zone suggested a timeline for fixing its problems? How long will it take?

The date that Go-Zone was required to fix these issues by is covered in the 2<sup>nd</sup> Notice to Fix (NTF) which gave them to 14 August 2023 to fix the identified issues in the WSP report. We make no mention of the issues in the Playsafe Report.

#### Could Go-Zone be fined by WorkSafe for operating while non-compliant?

This is a question for Worksafe not Council.

Some information has been withheld under section 7(2)(a) of the Act, to protect the privacy of natural persons.

Where information has been withheld under section 7(2), I have considered, as required under section 7(1) of the Act, the public interest considerations favouring its release. I have identified no public interest considerations which outweigh the need to withhold information at this time.

Please note, the Council now proactively publishes LGOIMA responses on our website. As such, we may publish this response on our website after five working days. Your name and contact details will be removed.

Thank you again for your email. If you have further questions, please feel free to contact our media team in the first instance at <u>comms@cdc.govt.nz</u>. If you are unsatisfied with my response, you have the right to ask an Ombudsman to review it. You can do this by writing to <u>info@ombudsman.parliament.nz</u> or Office of the Ombudsman, PO Box 10152, Wellington 6143.

Yours sincerely

Geoff Hamilton Chief Executive Carterton District Council

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LGOIMA ID: 2023-42





#### **RESOURCE CONSENT DECISION**

**Resource consent number:** 220055

Pursuant to section 104A of the Resource Management Act 1991 ("the Act"), the Carterton District Council ("the Council") hereby **grants** resource consent to:

Go-Zone

The activity to which this decision relates: A family entertainment centre in the Waingawa Industrial Zone.

#### Location details:

Address of property:	45A Norman Ave, Waingawa, Carterton.
Legal description:	Lot 2 DP 340930
Certificate of titles:	168186
File reference:	220055

Pursuant to Section 108 of the Act, this consent is issued subject to the following conditions:

#### CONDITIONS:

#### **General**

- 1. That the activity be undertaken in general accordance with the following:
  - i. The site plan and resource consent application, prepared by Adamson Shaw dated September 2022 and information submitted as part of the application and in subsequent correspondence.
- 2. That hours of operation be Monday-Friday 9am 5pm, Saturday-Sunday 9am-9pm.
- 3. That this resource consent does not equate to a building consent. A building consent will be required prior to any development of the site.
- 4. That costs, pursuant to Section 36 of the Resource Management Act 1991, be paid by the applicant.

#### Servicing & Access



- All new or upgraded entrances demonstrating compliance with the District Plan and NZS4404:2010 shall be submitted for approval by the Council prior to any work commencing on site.
- 6. That the applicant demonstrate that the existing water services on Norman Avenue can withstand the additional use generated by the proposed activity.

#### **Duration of Consent**

7. This consent expires in 5 years from the date of this decision.

#### **ADVICE NOTE(S)**

1. If any archaeological site deposits are identified during any development of the land, the owner/contractor should act in good faith and avoid effect to the deposits and contact the Historic Places Trust, Rangitaane o Wairarapa, and Ngati Kahungunu Ki Wairarapa Taiwhenua immediately. Under Section 87 of Heritage New Zealand Pouhere Taonga Act 2014, it is an offence to destroy, damage or modify an archaeological site (recorded or unrecorded) without an authority from the Trust, and a fine of up to \$300,000 may be imposed on an offender.

#### **REASONS FOR THE DECISION**

#### 1. Description of the Site and Proposed Activity

The application site is located at 45A Norman Avenue within the Waingawa Industrial Zone. The site, legally described as Lot 2 DP 340930 (Record of Title 168186), is approximately 3.92ha in area and positioned north of the Wairarapa Railway. The lot is characterised by an 880m<sup>2</sup> industrial shed, a smaller building adjacent to the shed, and is connected to Council's reticulated water network along Norman Avenue. Access is gained via the existing crossing at the northern end of the property, which is constructed to an industrial standard. The lot falls within the boundaries of SLUR site SN/07/006/02, a confirmed contamination site identified as the Ex Waingawa Freezing Works. The site is not subject to any other known notable sites, natural hazards, and there are no interests registered on the title that impact the application.

The applicant proposes the establishment of a new family entertainment centre, which will include an indoor playground, trampoline park, black light mini golf, tiny town attraction, and on-site coffee and pre-packaged food. The smaller building adjacent to the shed will be removed to accommodate on-site parking. There is no intention to change or upgrade the existing access from Norman Avenue. A large sign will be positioned on the shed and will be designed in accordance with District Plan standards. Smaller directional signage will also be placed the road fronting fence. The applicant proposes operating hours as 7 days a week, 9am-5pm, except Saturday and Sunday which will be 9am-9pm.

#### 2. S104 ASSESSMENT

The relevant statutory provisions that were considered are the Resource Management Act 1991, the National Environment Standards for Assessing and Managing Contaminants in Soil to Protect Human Health (NESCS), and the Wairarapa Combined District Plan.

## National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health (NESCS)



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These regulations provide a national environment standard for activities on pieces of land whose soil may be contaminated in such a way as to be a risk to human health. The subject site is listed on the Selected Land Use Register held by Greater Wellington Regional Council. The site is identified as the Ex Waingawa Freezing Works (SN/07/006/02). The application site is already developed and the proposed activity is less than likely to give rise to any adverse effects on human health.

#### Wairarapa Combined District Plan

The proposal is considered a Controlled Activity under Rule 7.5.6 (b) of the Wairarapa Combined District Plan, for any activity within the Waingawa Industrial Area that is consistent with the Waingawa Industrial Area Structure Plan in Appendix 12 and an approved Development Concept Plan.

The following objectives and policies were particularly relevant to this application,

#### **Objectives:**

7.3.1 Objective Ind1 – Provision for Industrial Activities
7.3.4 Objective Ind2 – Effects on Road Network and Infrastructure
7.3.10 Objective Ind4 – Waingawa Industrial Area
Policies:
7.3.2 (a), (b), and (c)
7.3.5 (a) and (c)
7.3.11 (a) and (e)

The relevant objectives and policies seek to provide for a wide range of activities within the Industrial Zone while ensuring safe and efficient use of roading networks, appropriate infrastructure is in place, and the mitigation of any adverse effects on the environment. The proposal will utilise the existing building and related services on the application site located at the end of Norman Avenue. While the activity is not necessarily a typical industrial activity, it can be easily accommodated in the proposed location given the roading, access, and nature of the surrounding environment. The application site is large enough to accommodate required on-site parking, volume of traffic, and the building contain the proposed activity.

The proposal is therefore consistent with the objectives and policies of the Wairarapa Combined District Plan.

The matters to which Council has reserved its control are:

- i) screening, planting, and landscape treatment
- ii) the siting, external appearance and design, likely to be visible from a public road
- iii) roading, access, and parking
- iv) protection of natural areas and notable trees
- v) noise, dust, and odour management.

Additional assessment criteria for consents under zone rules are also contain in section 22.

#### 22.2.21 Waingawa Industrial Area

i. The extent to which vehicle movements from the development effects the safe and efficient operation of the transportation network, in particular State Highway 2, 53 and the Wairarapa Railway.

The roading network within the Waingawa Industrial Area is designed for industrial use, providing wide roads and vehicle crossings for heavy traffic. The application site is on Norman Avenue, a no exist road, which gains access from Waingawa Road via Norfolk Road. The additional traffic generated from the proposal can be easily accommodated by the wider roading network in the area without causing any adverse effects on the safety and efficiency of the network. The Wairarapa



Railway runs along the sites' eastern boundary, the proposal will have no effect on the operation of this network.

ii. The extent of effects on infrastructure and its efficient use and development, including the capacity and safety of the roading and rail networks, and the ability of the area's utility services to function efficiently.

As previously noted, the site is sufficiently serviced with adequate roading and utility connections. The proposal will generate additional traffic in the area and increased use of water services. The surrounding roading network and vehicle access is designed to withstand the traffic anticipated by the proposal. Utility connections to the site are likely to meet the demand of use, with this efficiency of utility connections to be confirmed during the building consent process. For these reasons, the proposal can therefore be absorbed by the surrounding environment with less than minor impact on the efficiency of utility and roading infrastructure.

iii. Whether the buildings, structures and any outdoor areas can be effectively screened from neighbouring rural properties and public roads outside of the Industrial area.

The Waingawa Industrial Area has existing landscaping screening in the area. There is currently no intention to intensify development on the site, besides car parking and the removal of the building to the side of the shed. Additional screening will not be required as part of this consent.

iv. Whether the effects of noise, dust and odour can be effectively contained within the development site.

It is not anticipated that the proposed activity will generate any nuisance of dust and odour. Any noise generated by the proposed activity is unlikely to exceed those levels anticipated by the zone. There are no residential properties in the immediate surrounds and therefore any nuisance generated will not adversely affect surrounding properties outside of the Industrial Zone.

v. The extent to which the development adversely affects the values of the natural areas, in particular the Waingawa Swamp.

The proposed activity is sufficiently distanced from the Waingawa Swamp and other natural areas within the Waingawa Industrial Area. At this stage, the applicant does not propose to develop the site in a way which will affect the values of these areas.

- vi. The extent to which the development is consistent with the Waingawa Industrial Area Structure Plan and Waingawa Structure Plan Design Guide in Appendix 12. The Waingawa Structure Plan largely relates to subdivision and new development. The current development on the site is in accordance with these documents and the introduction of the proposed family entertainment centre does not contradict the intentions of the plan.
- vii. Whether existing vegetation is retained and enhanced to reduce the visual bulk of buildings and the density of development.

There will be no change to any vegetation in the area. The surrounding area is sufficiently screened from properties outside of the Waingawa Industrial Area and the State Highway 2 network. The proposal will not dramatically change the appearance of the site therefore avoiding the appearance of intensification. The proposal is in keeping with the character of the zone.

wiii. Whether planting and landscape treatment should be used elsewhere onsite to reduce the visual bulk of buildings and the density of development.
 The application will be utilising the existing building on the site and there is currently no intention to plant or landscape the site further. As previously noted, the proposal is relatively minor in nature and additional planting or landscaping is not considered necessary given the existing character of the site



and wider area.

- Whether loading and entrance areas are to be screened from rural areas and public roads, ix. using planting and/or solid structures. Not required.
- Whether the southwestern boundary (adjoining Wiltons Road) is to be planted in a manner x. that, on maturity, provides effective visual screening of the site from the adjoining rural land. Not required.
- xi. Whether the boundary adjoining State Highway 2 is to be planted in a matter that, on maturity, provides an effective avenue of trees along the edge of the road, as well as other planting that may be necessary to provide an effective visual softening of buildings from the road, subject to the provisions of adequate sightlines for vehicle egress and exit onto State Highway 2. Not applicable.
- Whether the buffer planting, on maturity, provides effective visual screening of the site from xii. adjoining rural land.

As noted above, there will be no requirement to establish screening from adjoining rural land.

#### 3 PART II MATTERS

The Council has taken into account the relevant principles outlined in sections 6, 7 and 8 of the Act and it is considered that granting this resource consent achieves the purpose of the Act as presented in section 5.

#### 4 S95A – 95B NOTIFICATION ANALYSIS AND DETERMINATION

#### 4.1 **Public Notification**

#### 1: Mandatory Public Notification (s95A Step 1)

Public Notification is required when the application meets any of the following criteria;

- The applicant has requested public notification, •
- Public notification is required under s95C of the Act (relating to a requests for further information), •
- The application been made jointly with an application to exchange recreation reserve land under section 15AA of the Reserves Act.

The application does not trigger any of the above criteria and as such mandatory public notification is not applicable.

#### 2: Public notification precluded in certain circumstances (s95A Step 2)

If not required by Step 1 above, Public Notification is precluded in certain circumstances when the application meets either of the following criteria;

- All activities in the application are subject to one or more rules or national environmental standards that preclude public notification.
- The application is for one or more of the following, but no other, types of activities:
  - a controlled activity,
  - a restricted discretionary, discretionary activity or non-complying activity that is a boundary activity,
  - an activity prescribed by regulations made under section 360H(1)(a)(i) of the Act (if any) precluding public notification.

The application is for a Controlled activity as such is precluded under step 2.

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#### 3: Public notification required in certain circumstances (s95A Step 3)

If not precluded in Step 2 above, Public Notification is required in certain circumstances when the application meets either of the following criteria;

- Any activity in the application is subject to a rule or national environmental standard that requires public notification,
- The activity has, or is likely to have, adverse effects on the environment that are more than minor in accordance with s95D of the Act.

The assessment above shows the effects on the environment resulting from the proposed activity are no more than minor and are appropriate for the zone. It is not considered that there will be any adverse effects that are more than minor and as such is precluded under Step 3.

#### 4. Public notification in special circumstances (s95A Step 4)

If special circumstances exist in relation to the application which warrant public notification, then the application must be publicly notified in accordance with s2AB of the Act.

No special circumstances exist

#### 4.2 Limited Notification

If public notification is not required, the Council must then determine whether there are any affected persons that would warrant limited notification under Section 95B(1).

#### 1: Certain affected groups and affected persons must be notified (s95B Step 1)

An application shall be notified to each affected person/group if it meets any of the following criteria;

- There are affected protected customary rights groups,
- There are affected customary marine title groups (in the case of an application for a resource consent for an accommodated activity),
- The proposed activity is on or adjacent to, or may affect, land that is the subject of a statutory acknowledgement made in accordance with an Act specified in Schedule 11 of the Act; and the person to whom the statutory acknowledgement is made is affected under s95E of the Act.

#### Not applicable

#### 2: Limited notification precluded in certain circumstances (s95B Step 2)

If not required by Step 1 above, Limited Notification is precluded in certain circumstances when the application meets either of the following criteria;

- All activities in the application are subject to one or more rules or national environmental standards that preclude limited notification.
- The application is for either or both of the following, but no other activities:
  - a controlled activity, that requires consent under a district plan (other than a subdivision)
  - an activity prescribed by regulations made under section 360H(1)(a)(ii) of the Act (if any) precluding limited notification

#### Not applicable

3. Certain other affected persons must be notified (s95B Step 3)

If not precluded by Step 2 above, the following affected persons must be notified;



- In the case of a boundary activity, an owner of an allotment with an infringed boundary
- A person prescribed in regulations made under s360H(1)(b) of the Act (if any) in respect of the proposed activity
- For other activities, "affected persons" under s95E of the Act.

No parties are deemed affected by this proposal.

4: Limited notification in special circumstances (s95B Step 4)

If special circumstances exist in relation to the application that warrant notification to any persons not already determined to be eligible for limited notification (excluding persons considered not affected under s95E) then the application must be notified to these persons.

No special circumstances exist.

In assessing this application Council's planner considered that no person is considered affected in a way that is minor or more than minor, the application does not trigger any of the steps requiring either public or limited notification and as such this application can be processed on a non-notified basis pursuant to section 95A-95B of the Resource Management Amendment Act 2009.

#### 5. Overall Evaluation

It is considered that the proposal is consistent with sustainable resource management. The development is seen to be appropriate for this zone and the assessment has concurred that the development is consistent with relevant objective and policies of the planning documents and that the proposal is consistent with the relevant sections of Part II of the Resource Management Act 1991.

#### 6. Decision and Recommendation

Pursuant to section 104A, of the Act, the Council **GRANTS** resource consent, subject to conditions. In reaching this decision, the Council considers that the adverse effects of the proposed activity on the environment will be no more than minor, and that the proposal is consistent with the objectives and policies of the Wairarapa Combined District Plan, and that no parties are considered to be adversely affected by the proposal.

#### Decision: That the above recommendation be adopted.

Delegated Officer (Authorised for final approval):

Becca Adams PLANNING CONSULTANT

Gebeugen Solitaire Robertson

MANAGER PLANNING & REGULATORY, 06/10/2022

**Right of Objection:** Pursuant to Section 357 of the Resource Management Act 1991, if you disagree with this decision or any of the conditions of consent, you may lodge an objection in writing to Carterton District Council. The objection must be received within 15 working days of the receipt of this written decision.





| 28 Holloway Street | PO Box 9 | Carterton 5743 | www.cdc.govt.nz | Ph 06 379 4040 | | E buildingadmin@cdc.govt.nz |

NF0073

## Form 13 Notice to fix No2

Sections 164 and 165, Building Act 2004

To:	(tenants)
Mailing Address:	s 7(2)(a)
Email: gozonewa	irarapa@gmail.com
And to:	( on behalf of the owner)
s 7(	2)(a)

#### The building

Street address of building: 45A Norman Avenue

Legal description of land where building is located: LOT 2 DP 340930

Valuation number: 1814011802

Building name: Gozone

Location of building within site/block number:

Level/unit number:

#### Particulars of contravention or non-compliance

On the 10.7.2023 Council confirmed that the play ground equipment at 45A Norman above is now being used by the public. We note that Council received assurances that the playground would not be open to the public until such time that the requirements of the notice to fix NF0070 had been met.

Council note that not all of the components of the Notice to fix NF 0070 dated 06.03.2023 have been complied with.

The building work - namely the construction of the multilevel playground frame, was undertaken other than in accordance with a consent and although a Certificate of Acceptance has been applied for, this has not been issued.

Council have received the following reports from WSP Structural engineers:

- CDC Playground review structural assessment dated 12.06.2023. This report explains that the overall equipment does not resist lateral loads as per New Zealand Standards.
- CDC Playground review structural assessment and strengthening dated 26.06.2023. This report provided a list of suggested remedial work to address the deficiencies identified in the 12.06.2023 report.

Council have no records to show any of the deficiencies referred to in the WSP report dated 26.06.2023 have been resolved.

We understand that some of the remedial work detailed in the WSP report dated 26.06.2023 may conflict with the requirements of NZS5828. We have seen no evidence that this conflict has been resolved to a point where the deficiencies in the WSP report 12.06.2023 have been resolved.

#### To remedy the contravention or non-compliance you must:

By 14.08.2023 complete the work necessary to ensure that the structure complies with the requirements of Building Code clause B1 structure. You will need to provide confirmation from WSP limited that the work has been completed to their satisfaction.

#### Alternatively

By 14.08.2023 cease operation of the playground structure until such time that it can be established that the structure is not unsafe.

This notice must be complied with by: 14.08.2023

Please Note: If the plan referred to above is not sufficient Council will seek to enforce the notice to fix.

#### Further particulars

Council accept that it is necessary to undertake building work to ensure that the structure is safe and that this work will form part of the Certificate of Acceptance application CA0095.

The only building work to be done is the work required to be done by both Playsafe and WSP for the purposes of ensuring that the structure is safe.

If you do not comply with this notice you commit an offence under section 168 of the Building Act 2004 and may be liable to a fine of up to \$200,000 and a further fine of up to \$20,000 for each day or part of a day that you fail to comply with this notice.

John Tait Building Services Team Leader Date: 12/07/23



**Carterton District Council** 

## CDC PLAYGROUND REVIEW STRUCTURAL ASSESSMENT AND STRENGTHENING

26 JUNE 2023

CONFIDENTIAL





#### CDC PLAYGROUND REVIEW STRUCTURAL ASSESSMENT AND STRENGTHENING

Carterton District Council

WSP Palmerston North 49 Victoria Avenue PO Box 1472 Palmerston North 4410, New Zealand +64 6 350 2500 wsp.com/nz

REV	DATE	DETAILS		
		NAME	DATE	SIGNATURE
Prepared	by:	s 7(2)(a)	26/06/2023	s 7(2)(a)
Reviewed	d by:	s 7(2)(a)	26/06/2023	s 7(2)(a)
Approved	d by:	s 7(2)(a)	26/06/2023	s 7(2)(a)

This report ('Report') has been prepared by WSP exclusively for Carterton District Council ('Client') in relation to Structural Assessment of Playground ('Purpose') and in accordance with Short form Agreement with the Client dated 04/05/23. The findings in this Report are based on and are subject to the assumptions specified in the Report and Offer of Services dated 19/04/2023. WSP accepts no liability whatsoever for any reliance on or use of this Report, in whole or in part, for any use or purpose other than the Purpose or any use or reliance on the Report by any third party.

5-P1688.00

Confidential

wsp

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## 1 EXECUTIVE SUMMARY

The purpose of this report is to assess whether the new playground equipment at GoZone, Carterton, satisfies the structural loading and design in accordance with the latest NZ Building Code and propose strengthening for the equipment which does not satisfy the criteria as per NZS 58.28:2015.

WSP has assessed the playground equipment and found these results:

- Large Playground and Toddler Playground The equipment satisfy the vertical load requirements as per New Zealand code. The overall equipment does not resist lateral loads as per New Zealand standards.
- Donut Slide The equipment structure satisfies the requirements as per New Zealand code.
- Trampoline The overall structure does not satisfy the requirements as per New Zealand standard.

WSP recommend the following to ensure that structures meet the New Zealand code:

- Large Playground To add 9mm Plywood on each row at both transverse and longitudinal direction as marked in the strengthening sketches.
- Trampoline –To add 9mm Plywood on each row at both transverse and longitudinal direction as marked in the strengthening sketches.

## 2 PROJECT BACKGROUND



#### 2.1 INTRODUCTION

WSP has been engaged by Carterton District Council (CDC) to complete a Structural Review and strengthening of an Internal Playground at GoZone, Carterton at 45A Norman Avenue, Waingawa, Carterton. This report is based on existing documentation provided by Carterton District Council, and a walkover survey by a WSP structural engineer on 18 May 2023. This report summarizes the inputs, methodology and findings of the assessment.

The indoor playground equipment is designed and built using international building standards. The playground has been constructed onsite without a building consent from Carterton District Council. It has been assessed as per the information in the certification provided by the manufacturer and provisions mentioned in NZS 5828:2015 – Playground equipment and surfacing. The strengthening sketches for the equipment which does not satisfy the criteria has been attached in Appendix A.

#### 2.2 PURPOSE

The purpose of this assessment is to establish whether the playground equipment satisfies the structural loading and design in accordance with the latest NZ Building Code and propose strengthening where applicable.

#### 2.3 SCOPE OF WORK

Our scope of work for this project will include:

- Review existing playground equipment design, specification and calculations
- If design complies, provide a producer statement 1
- Design of required remedial works
- One site-visit to inspect onsite installation and fixings of playground structure
- If all work complies, provide a producer statement 4.

## 3 STRUCTURE DESCRIPTION

#### 3.1 OVERVIEW

The indoor playground, located at 45A Norman Avenue, Waingawa, Carterton, is divided into four play zones as shown in Figure 1:



#### 3.1.1 Donut Slide

The equipment structure for the Donut Slide as shown in Figure 2 comprises of :

- A square hollow section (SHS) 40 mm x 40 mm x 2 mm welded frames in both horizontal and transverse directions.
- A 16 mm thick plywood bolted to the frames on all sides including the bottom of the slide.
- The frames are not bolted to the ground and hence will not resist uplift from the lateral loading.
- The lateral loading to be resisted by the plywood and the vertical loading from the user will be resisted by the framing members which will then transfer the loading to the base slab.

Figure 2. Donut Slide Layout

#### 3.1.2 Large Playground

The equipment structure for the Large Playground as shown in Figure 3 comprises of:

- A circular hollow section (CHS) 48 mm x 2 mm for framing structures.
- The hollow section members are assembled using heavy duty clamps which are tightened via heavy duty clamp set screw.
- The equipment structures are not bolted to the ground and hence will not resist uplift due to lateral loading.
- The clamped beam-column joints will not resist moments and hence the beams are designed as simply supported.
- The vertical loading from the user will be transferred to columns as compression.
- As per manufacturer's certification, the barrier or safety netting has been tested for the lateral loading from the user.

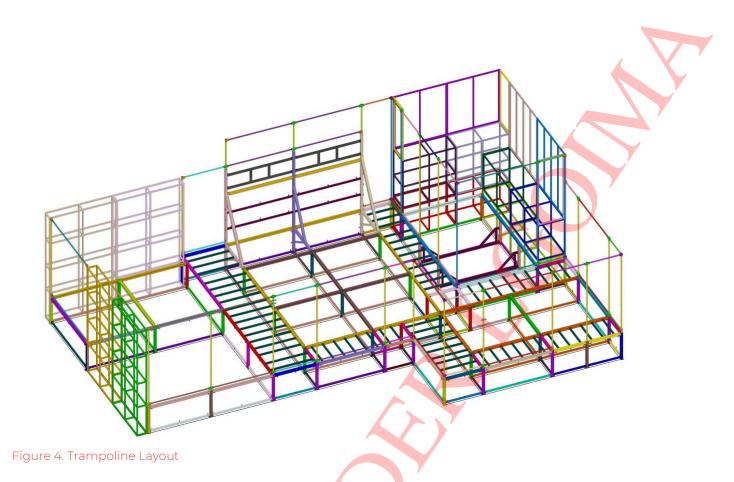


Figure 3. Playground Layout

#### 3.1.3 Trampoline Area

The equipment structure for the Trampoline Area as shown in Figure 4 comprises of:

- A square hollow section (SHS) 80 mm x 80 mm and presumably (SHS) 40 mm x 40 mm.
- SHS 40 mm x 40 mm are bolted to columns (SHS 80 mm x 80 mm) and welded to hollow sections in both transverse and horizontal directions.
- The frames are not bolted to the ground slab and hence will not resist uplift due to lateral loading.
- The vertical loading from the user will be resisted by the smaller hollow sections which in turn will transfer the loading to SHS 80 mm x 80 mm.



#### 3.1.4 Toddler Playground

The equipment structure for the Toddler playground is similar in arrangement to the large playground as shown in Figure 5.



Figure 5. Toddler Playground Layout

## 4 ASSESSMENT



#### 4.1 ASSESSMENT METHODOLOGY

The capacity of relevant structural elements was calculated, and analysis was undertaken in accordance with NZS5828:2015 – Playground equipment and surfacing and NZS1170.5:2004 - Structural design actions Part 5 Earthquake actions – New Zealand.

The assessment and strengthening of the buildings have been completed with hand calculations as per the above criteria.

#### 4.2 LOADING PARAMETERS

The criteria in Table 1, taken from *NZS1170.5:2004*, were used to determine the ULS seismic demand.

#### TABLE 1: PARAMETERS FOR SEISMIC LOAD DEMAND CALCULATIONS

PARAMETER	VALUE
Site Subsoil Class	D
Z	0.40
R <sub>u</sub> (ULS)	1.0
N(T,D)	1.0
μ	1.25
S <sub>p</sub>	0.50
-	

The criteria mentioned in Cl. A.2.2 from *NZS5828:2015*, were used to determine the user vertical and horizontal demand.

## 5 FINDINGS AND RECOMMENDATIONS



Based on the assumptions and assessment, the following observations have been made.

#### TABLE 2 : OBSERVATION SUMMARY

EQUIPMENT	COMMENTS	RECOMMENDATIONS
Large Playground	• The overall structure does not satisfy the lateral load criteria as per NZS 5828:2015.	<ul> <li>Add 9mm plywood in both transverse and longitudinal direction as shown in the attached sketch to satisfy the lateral load requirements</li> </ul>
Donut Slide	<ul> <li>The SHS columns and beams are able to resist the user loads as per NZS5828:2015.</li> <li>The 16mm thick plywood will resist lateral capacity as per NZS5828:2015 and NZS1170.5:2004.</li> </ul>	• No rectification required
Trampoline	<ul> <li>The trampoline structures are not sufficient for the user loading as per NZS5828:2015.</li> <li>The existing structural arrangement are not designed to resist lateral loadings as per NZS5828:2015.</li> </ul>	<ul> <li>Add 9mm plywood in both transverse and longitudinal direction as shown in the attached sketch to satisfy the lateral and vertical load requirements</li> </ul>

## 6 ASSUMPTIONS AND LIMITATIONS

This report ('Report') has been prepared by WSP New Zealand Limited ('WSP') exclusively for Carterton District Council ('Client') in relation to Assessment of playground equipment ('Purpose') and in accordance with the Short Form Agreement with the Client dated 04/05/2023 ('Agreement'). The findings in this Report are based on and are subject to the assumptions specified in the Report and Offer of Services dated 19/04/2023. WSP accepts no liability whatsoever for any use or reliance on this Report, in whole or in part, for any purpose other than the Purpose or for any use or reliance on this Report by any third party.

In preparing this Report, WSP has relied upon data, surveys, analyses, designs, plans and other information ('Client Data') provided by or on behalf of the Client. Except as otherwise stated in this Report, WSP has not verified the accuracy or completeness of the Client Data. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in this Report are based in whole or part on the Client Data, those conclusions are contingent upon the accuracy and completeness of the Client Data. WSP will not be liable for any incorrect conclusions or findings in the Report should any Client Data be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to WSP.

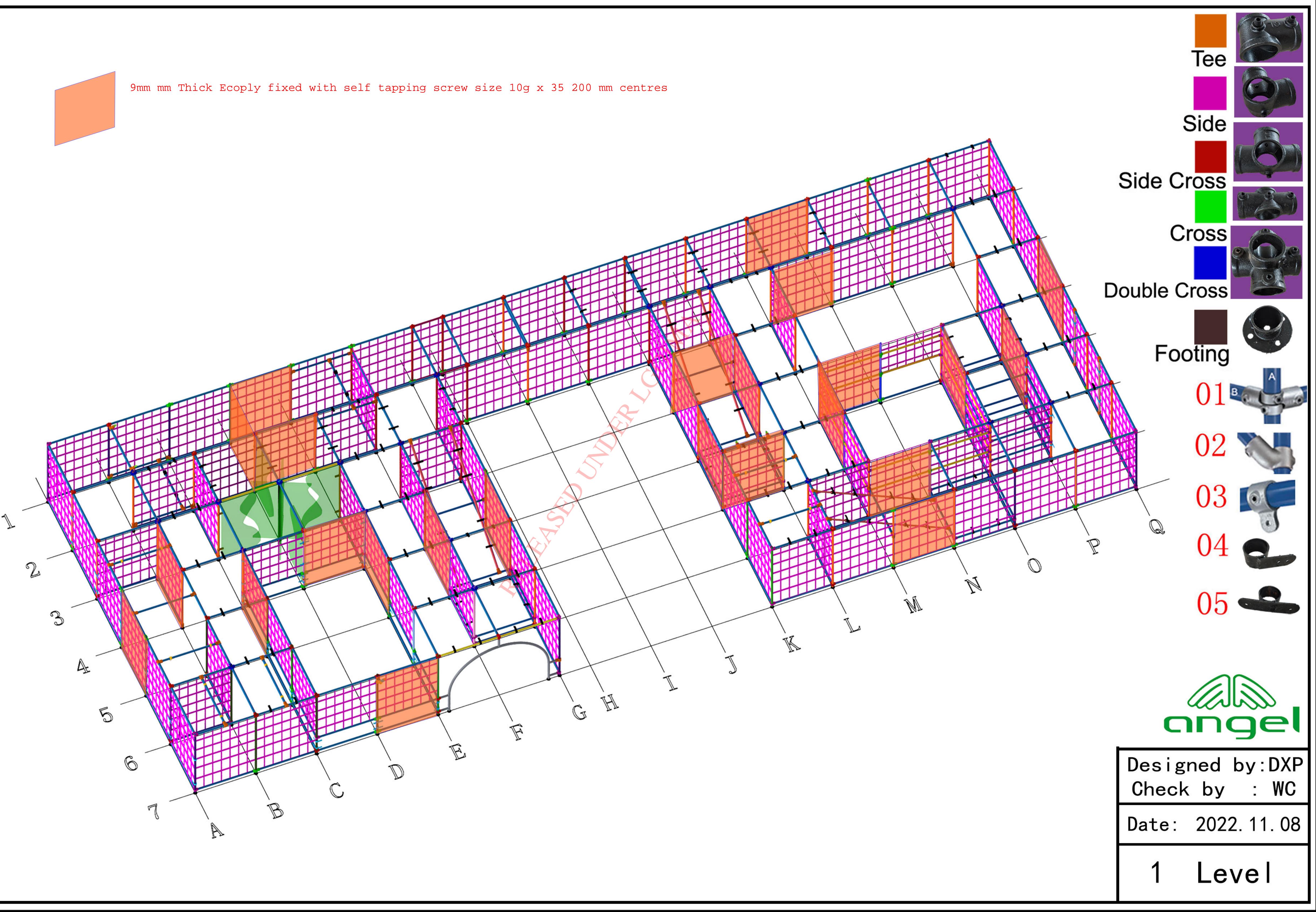
Below are the assumptions made during the assessment of all structures -

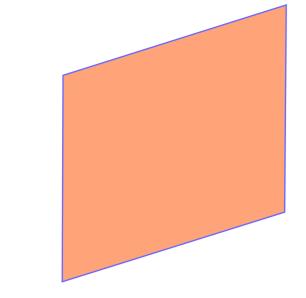
- Our assessment is based on the structure being in 'as new' condition, without taking in to account any damage or deterioration to the elements.
- The bolts and fillet welds at site are carried out as per the recommendations in the drawings.
- The testing capacity of the barrier netting for the large playground has been carried out as per the recommendations.
- The yield strength of the member has been assumed to be minimum 250 MPa.
- The plywood stress grade has been assumed to be F8 as per NZS AS 1720.1:2002.

## APPENDIX A: LARGE PLAYGROUND STRENGTHENING

5-P1688.00 CDC PLAYGROUND REVIEW STRUCTURAL ASSESSMENT Carterton District Council WSP 26 June 2023 10

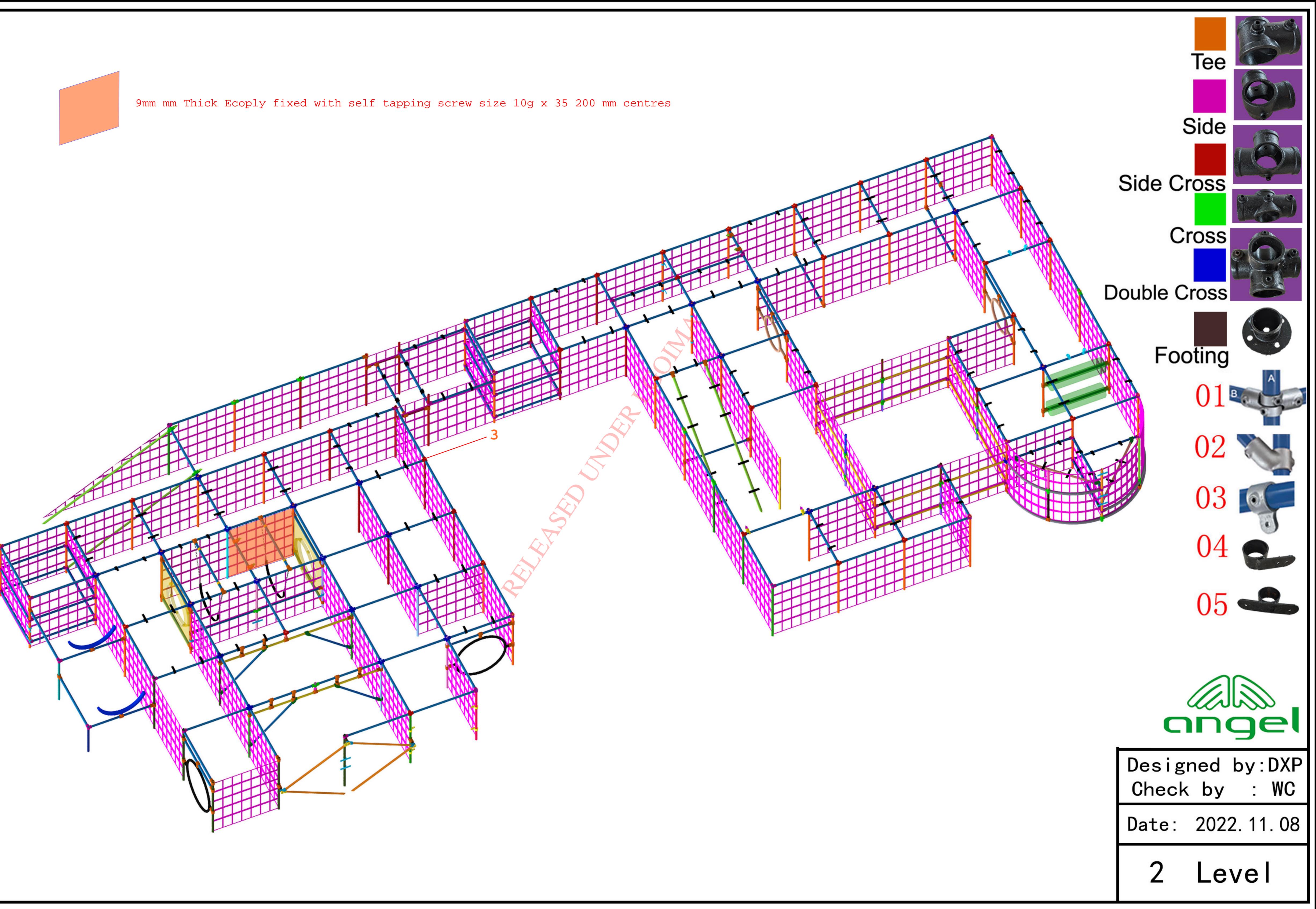
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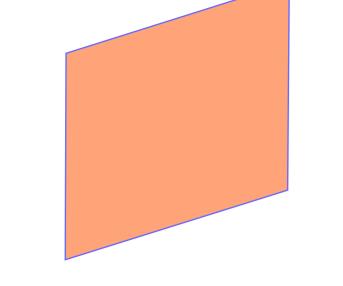






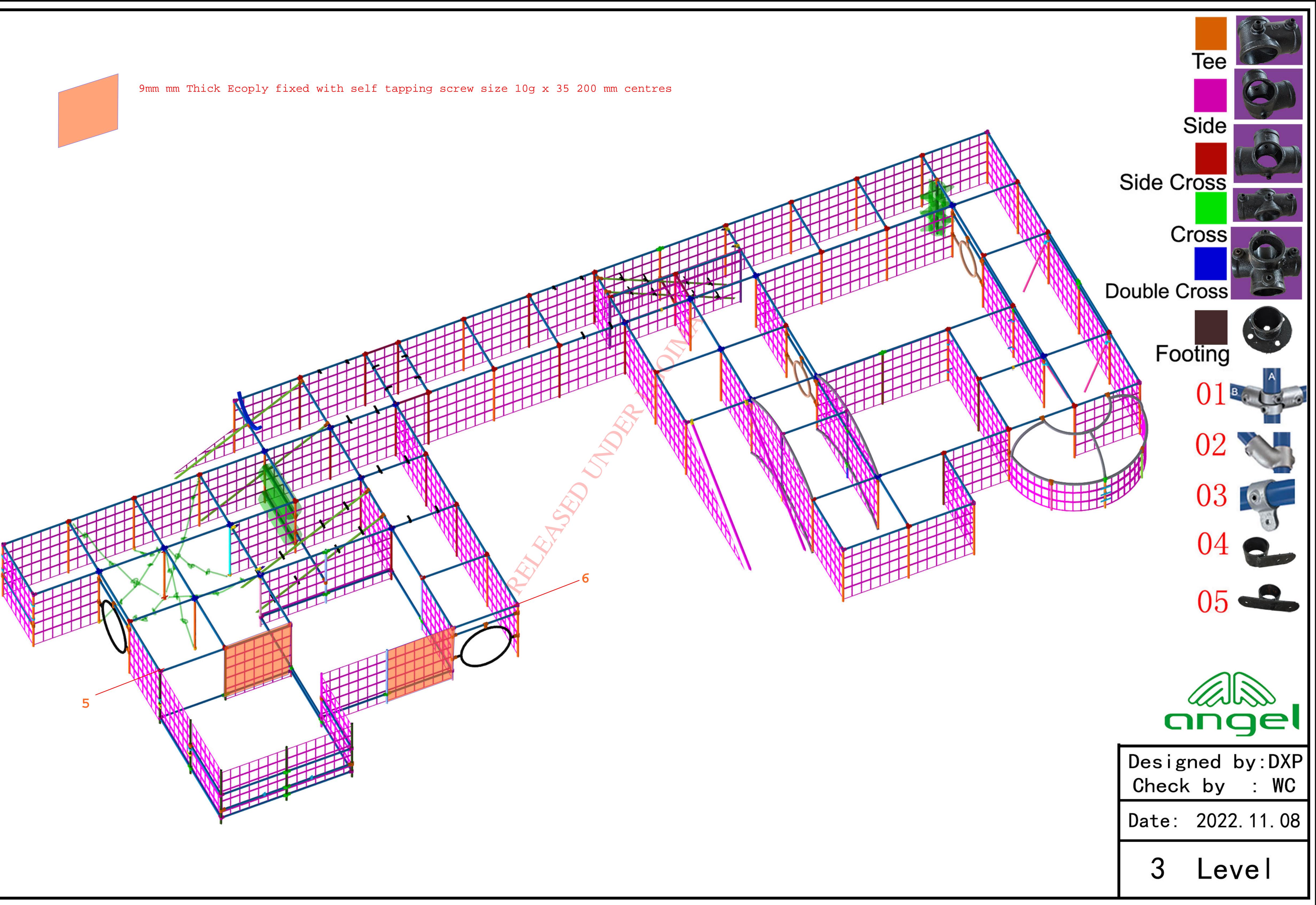
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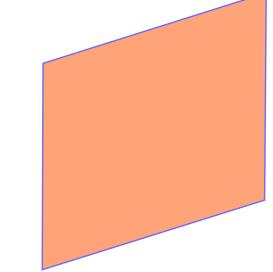






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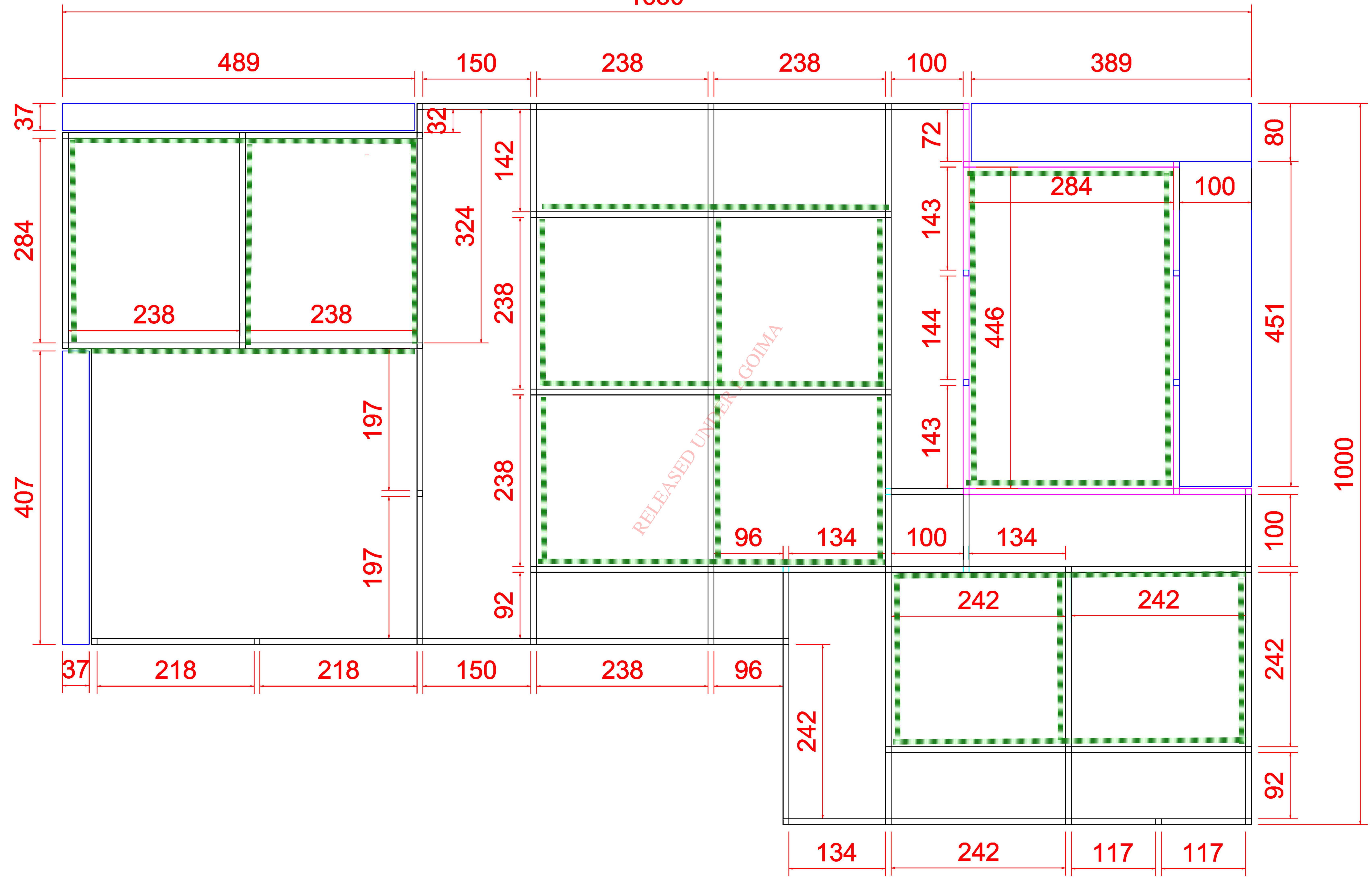


## APPENDIX B: TRAMPOLINE STRENGTHENING

5-P1688.00 CDC PLAYGROUND REVIEW STRUCTURAL ASSESSMENT Carterton District Council

WSP 26 June 2023 11





# 1650

## PLAYSAFE AUDIT REPORT 2023

Playground Safety Specialists

playsafe

PREVENT | PROTECT INSPECT PLAYSAFE.CO.NZ



## Inspect | Prevent | Protect



# Thank you!

For choosing Playsafe Consulting Ltd.

Please find the following document that contains information on who we are, and what we do.

#### Why comply?

Certified compliance is essential to user safety and together with regular inspection and maintenance to the standard will help minimise the risk exponentially.

In the event of a serious life-changing playground injury or death, compliance with NZ\$5828 is typically the first evidence requirement. Owner/operators of play areas have a duty of care and bear the burden of proof to identify risk and failure to comply may be cause for negligence.

The Playground Safety Standard aims to protect children from serious harm, permanent disability, or death. The technical provisions are based on decades of injury data and accident patterns observed around the world.

A key opportunity for playground injury prevention is a comprehensive inspection by a certified expert, followed by modification or correction of hazards and ongoing maintenance of playground equipment and ensuring surfacing impact performance.

#### Playsafe aims to ensure children grow, develop and have fun through safe play.

#### **About Playsafe**

Playsafe Consulting Ltd is NZ's leading playground professional services provider specialising in safety inspections, surface impact testing, design reviews and inspection training throughout New Zealand to Council Parks, Schools and Early Childhood.

Playsafe's certified inspectors have over 25 years of comprehensive experience in the Park, Play and Recreation industry with an extensive history in design, compliance construction, manufacturing, project management and maintenance of playgrounds.

Playsafe inspectors are internationally accredited to the Register of Playground Inspectors International Level 3 (RPII). Playsafe is also the largest registered and accredited training and Examination Centre for the Register of Playground Inspectors International (RPII) in New Zealand.

Our inspection services are certified, independent, impartial, and confidential. Our inspectors are police-vetted and carry professional indemnity insurance for professional consulting services. The MOE, ERO and Local Government throughout New Zealand recommend Playsafe reporting services.

Thanks again for choosing Playsafe!



Adam Stride Founder | Director | RPII L3 Outdoor & L4 Enclosed Play Area Specialist M#1074A / M#1023AF



#### WWW.PLAYSAFE.CO.NZ

#### **CONDITION GRADING**



Your report will contain a general condition grading along with a lifespan expectation. This is given based on the current structural stability and condition of materials as follows:

#### 1 - EXCELLENT. LOW RISK. 90% of life remaining.

Early signs of atmospheric degradation, corrosion or decay were noted. Stability: Sound/As New. No deterioration to the appearance of the materials. Action: Regular monitoring and maintenance.

#### 2 - GOOD. LOW RISK. 70-80% of life remaining.

Early signs of atmospheric degradation, corrosion or decay were noted. Stability: Sound. Some visual deterioration to the appearance of the materials. Action: Regular monitoring and maintenance.

#### 3 - FAIR. LOW/MEDIUM RISK. 40-60% of life remaining.

Signs of general degradation, corrosion or decay were noted. Stability: Average. Some visual deterioration to the appearance of the materials. Action: Proactive/preventative maintenance, followed by regular monitoring.

#### 4 - POOR. MEDIUM/HIGH RISK. 10-30% of life remaining.

Signs of significant corrosion or decay were noted. Risk of structural instability. Stability: Poor. Moderate deterioration to the appearance of the materials in serviceable life parameters.

Action: Reactive/Remedial repair, followed by regular monitoring.

#### 5 - UNSERVICEABLE. HIGH. No useful life remaining.

Signs of severe corrosion or decay were noted. Structurally Compromised. Stability: Poor. Risk of structural instability. Significant degradation of materials. Beyond serviceable life parameters. Action: Reactive/Replacement.

Play equipment if properly inspected and maintained can last for decades. The lifespan largely depends on the type of materials used, level of use, wearable parts, atmospheric degradation and vandalism.

#### **RISK ASSESSMENT**

Hazards in the play area are assessed by balancing **Probability VS Severity** of injury potential.

Each finding in your report is marked with a Risk Level, this is based on a possible injury vs the likelihood of the injury occurring. Other factors taken into account are location, age, usage and condition of the element as well as any known injury history.



#### PROBABILITY

LOW: Requires a significant factors for an injury to take place. MEDUIM: Added factors are needed to cause an injury. HIGH: If the situation is not addressed an accident is almost certain.

#### SEVERITY

LOW: Minor injury / minor bruising, damaged clothing.

MEDIUM: Moderate Injury possible medical intervention- eg stitches, sprain, fracture. HIGH: Severe injury, potential for permanent disability, amputation, loss of sight, spinal injury, fatality.

#### RECOMMENDATIONS

Risk assessed findings will have appropriate and practical actions as follows



During the inspection the inspector views only a snapshot of the current condition.

It is the operators responsibility to ensure that there is a continued level of maintenance to keep the playground in good working order and safe for use.



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## Playsafe | Indoor Enclosed Play Audit -

GoZone Wairarapa / Indoor Play Area

#### Flagged items

#### **Client Details**

Client

Location (Obtained by GPS)

Playground









Photo 5

Photo 6

Complete

GoZone Wairarapa

(-40.97123378470865, 175.59065397880352)

Indoor Play Area

Wellington Carterton 5791

New Zealand

54

#### Inspection

**Inspection Date / Time** 

**Inspection Type** 

19.04.2023 11:36 NZST

Post Installation Inspection

Compliance

Indoor / Enclosed Play

PSI000159

**Report Document Number** 

#### **Table of Contents**

**Flagged items** 

#### Signage

Signage	10
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Play Item / Equipment: 1	17
Safety Surface:	17
Safety Surface: 1	17
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Finding 11	24
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4



#### **Flagged items**

#### Managing the Play Area / Design

#### Proper separation of age groups.

Awaiting signage - regarding height/ age restrictions. Recommend age instruction for under 5's area and height restrictions for Raft Slide.







Photo 7

Photo 8

#### Managing the Play Area / Design

#### Avoid "blind spots" where children cannot be seen from supervision points.

Some blind spots exist in the under 5's area - recommend the dark voids that are not well lit behind the village are addressed (i.e blocked), these are undesirable gaps that are difficult to supervise.











Photo 14

Photo 15

Photo 16



Photo 18

Photo 19

#### Managing the Play Area / Design

#### Reception area should have a clear view of the play frames.

Needs improvement

Needs improvement

View from reception to main play structures are completely obstructed by tent.



Photo 20



Photo 21

#### Managing the Play Area / Design

Prevent access to unauthorized areas such as roof or void spaces, electrical, heating, ventilation, lighting equipment, or any other potentially hazardous location.

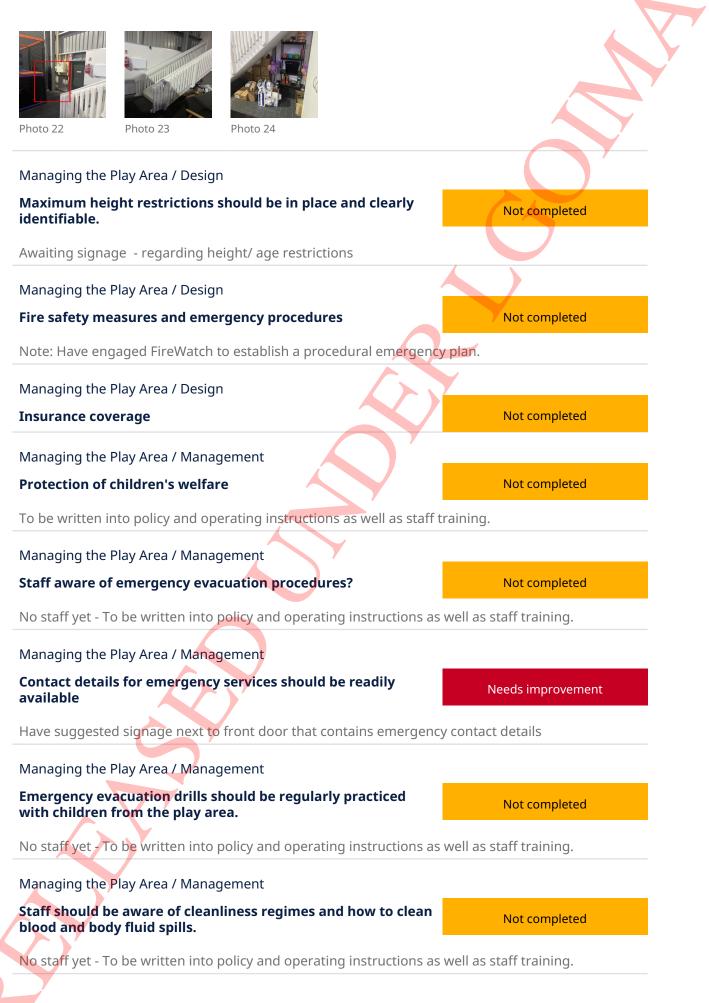
Needs improvement

Blind spot next to fire brigade panel and office stairs. Under stairs storage area accessible.

5/106

Not completed

54 flagged



Managing the Play Area / Storage

To ensure safe access and exit routes, adequate space should be provided for storing items like buggies that may clutter and block the area.

No staff yet - To be written into policy and operating instructions as well as staff training.

#### Managing the Play Area / Storage

#### Net cutting tools should be available for emergency access

#### Managing the Play Area / Security

# Emergency exits should lead to safe areas and equipped with alarms or flashing lights to alert staff.

Would suggest hanging and illuminated fire exit direction signs are installed as there are many obstructions to three of the four main fire exit's.











Photo 46



Photo 47



Photo 43

Photo 44







Photo 48

## Managing the Play Area / Inspections

#### Play Area - Daily inspection procedures?

(Note: this is a self inspection and should be completed by staff members)

## Managing the Play Area / Inspections

#### Play Area - Weekly inspection procedures?

(Note: this is a self inspection and should be completed by management)

#### Managing the Play Area / Inspections

## Play Area - Annual Inspection Procedure?

Note: this inspection should be independent and by a certified professional.

## Managing the Play Area / Accidents:

#### Accident, hazard and injury register in place.



Not completed

Needs improvement

Not completed

Not completed

Not completed

Not completed

To be written into policy and operating instructions as well as s	
Play Equipment & Surfaces / Play Item / Equipment: / Play Item	
Manufacturers Identification	No
Inspection / Findings / Finding / Finding 1	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 2	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 3	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 5	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 7	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 8	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 9	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 10	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 11	
Risk Assessment	Medium Risk
Inspection / Findings / Finding / Finding 12	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 13	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 14	
Risk Assessment	Low/ Medium Risk

Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 19	
Risk Assessment	Medium Risk
Inspection / Findings / Finding / Finding 21	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 22	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 23	
Risk Assessment	Medium Risk
Inspection / Findings / Finding / Finding 24	
Risk Assessment	High Risk (Close ASAP)
Inspection / Findings / Finding / Finding 27	
Risk Assessment	High Risk (Close ASAP)
Inspection / Findings / Finding / Finding 31	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 32	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 33	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 34	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 35	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 36	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 37	
Risk Assessment	Medium Risk

Inspection / Findings / Finding / Finding 39

Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 40	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 43	
Risk Assessment	Medium Risk
Inspection / Findings / Finding / Finding 44	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 45	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 46	
Risk Assessment	Low/ Medium Risk
Inspection / Findings / Finding / Finding 47	
Risk Assessment	Medium Risk
Inspection / Findings / Finding / Finding 48	
Risk Assessment	Low/ Medium Risk

#### Managing the Play Area

Safety operating environment considerations for Fully enclosed play facilities considering the NZS5828, EN 1176-10:2008 and BS 8409:2009. Answers and notes obtained from verbal interview with management (formal evidence not required here).

# Design

# Proper separation of age groups.

Awaiting signage - regarding height/ age restrictions. Recommend age instruction for under 5's area and height restrictions for Raft Slide.







Clear separation of catering and viewing areas from the main play space, with a slow exit from the play area leading into these areas.

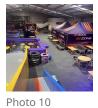






Photo 12

Photo 13

#### Avoid "blind spots" where children cannot be seen from supervision points.

Needs improvement

Some blind spots exist in the under 5's area - recommend the dark voids that are not well lit behind the village are addressed (i.e blocked), these are undesirable gaps that are difficult to supervise.



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19

## Reception area should have a clear view of the play frames.

Needs improvement

View from reception to main play structures are completely obstructed by tent.



19 flagged

7 flagged

Not completed

Photo 21

#### Prevent access to unauthorized areas such as roof or void spaces, electrical, heating, ventilation, lighting equipment, or any other potentially hazardous location.

Needs improvement

Blind spot next to fire brigade panel and office stairs. Under stairs storage area accessible





Photo 24

Photo 22

Photo 23

# Provide safe entrance/exit to the cooking area and prevent children from accessing it.

Not Applicable

Staff kitchen only - No commercial kitchen onsite - only packaged cold food to be supplied.



Photo 25



Photo 26

 Ensure furniture has rounded or chamfered edges, is stable, and doesn't obstruct access or emergency exits.
 Good

 Image: Comparison of the stable o

Photo 27



Maximum height restrictions should be in place and clearly identifiable.

Awaiting signage - regarding height/ age restrictions

All areas should be easily accessible for cleaning and maintenance.	Adequate
Provision of outside lighting.	Adequate

Photo 29

Photo 30

Compliance with planning and building regulations	Not Applicable
Owners are working with local council requirements.	
Fire safety measures and emergency procedures	Not completed
Note: Have engaged FireWatch to establish a procedural emergency	/ plan.
Insurance coverage	Not completed
Hygiene standards for food preparation and service	
Only packaged cold food to be supplied.	
Heating arrangements for the premises	$\sim$
Many roller doors and heat vents are to be installed.	
Adequate ventilation, especially on upper floors during warm weather	Adequate
Many roller doors and heat vents are to be installed.	
Provision of parking and nearby transportation options	Adequate
Plenty of parking	Adequate
Photo 31 Photo 32	
Photo 31 Photo 32 Management	5 flagged
	5 flagged
Management	Not completed
Management Protection of children's welfare To be written into policy and operating instructions as well as staff t Toilet and baby changing facilities located conveniently either	Not completed
Management Protection of children's welfare To be written into policy and operating instructions as well as staff t Toilet and baby changing facilities located conveniently either within the facility or nearby.	Not completed
Management         Protection of children's welfare         To be written into policy and operating instructions as well as staff t         Toilet and baby changing facilities located conveniently either within the facility or nearby.         Image: District of the staff o	Not completed
Management Protection of children's welfare To be written into policy and operating instructions as well as staff t Toilet and baby changing facilities located conveniently either within the facility or nearby.	Not completed raining. Adequate

Needs improvement Not completed with children from the play area. Staff should be aware of cleanliness regimes and how to clean Not completed blood and body fluid spills. Emergency exits and routes should be kept clear at all times. No food or drinks should be allowed in the play space. Adequate

Contact details for emergency services should be readily available

Have suggested signage next to front door that contains emergency contact details

No staff yet - To be written into policy and operating instructions as well as staff training.

**Emergency evacuation drills should be regularly practiced** 

No staff yet - To be written into policy and operating instructions as well as staff training.

No staff yet - To be written into policy and operating instructions as well as staff training.

No staff yet - To be written into policy and operating instructions as well as staff training.

No staff yet - To be written into policy and operating instructions as well as staff training.

Photo 41

To maintain control and security, sufficient storage space for shoes should be provided, possibly at the reception area.

To ensure safe access and exit routes, adequate space should be provided for storing items like buggies that may clutter

No staff yet - To be written into policy and operating instructions as well as staff training.

Shoe boxes bot currently at reception area but close by - one on under five structure, and one to the side of the bounce facility and another by main play structure.





Photo 37

Storage

and block the area.



Staff aware of emergency evacuation procedures?



Not completed

Needs improvement

2 flagged

Adequate



#### To prevent the spread of foot diseases, socks must be worn within the play facility; bare feet are not allowed.

No staff yet - To be written into policy and operating instructions as well as staff training.

Net cutting tools should be available for emergency access

# Security

#### Emergency exits should lead to safe areas and equipped with alarms or flashing lights to alert staff.

Would suggest hanging and illuminated fire exit direction signs are installed as there are many obstructions to three of the four main fire exit's.













Adequate

Not completed

Needs improvement



flagged

Photo 42

Photo 43

Photo 44

Photo 45

Photo 46

Photo 47



Photo 48

The area on both sides of the emergency exits should have a suitable surface that can be walked on by children not wearing shoes, as they may not have time to retrieve their shoes in an emergency.

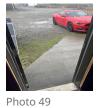




Photo 51



Good sight lines into the play area, and staff should be able to be positioned to oversee the entire area.

Adequate

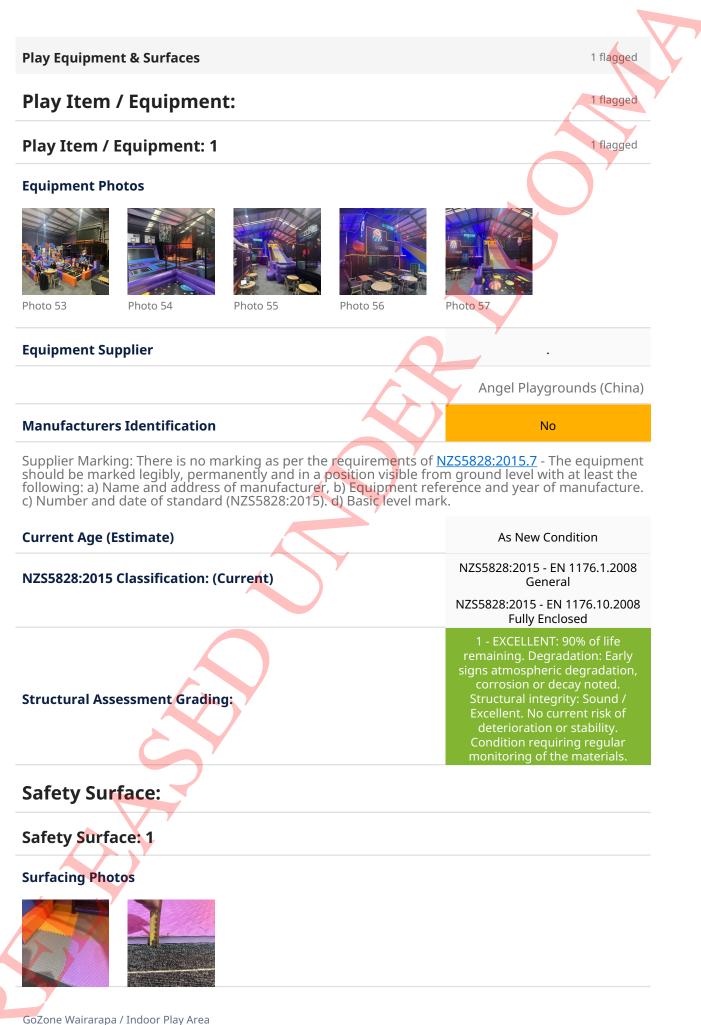
Adequate

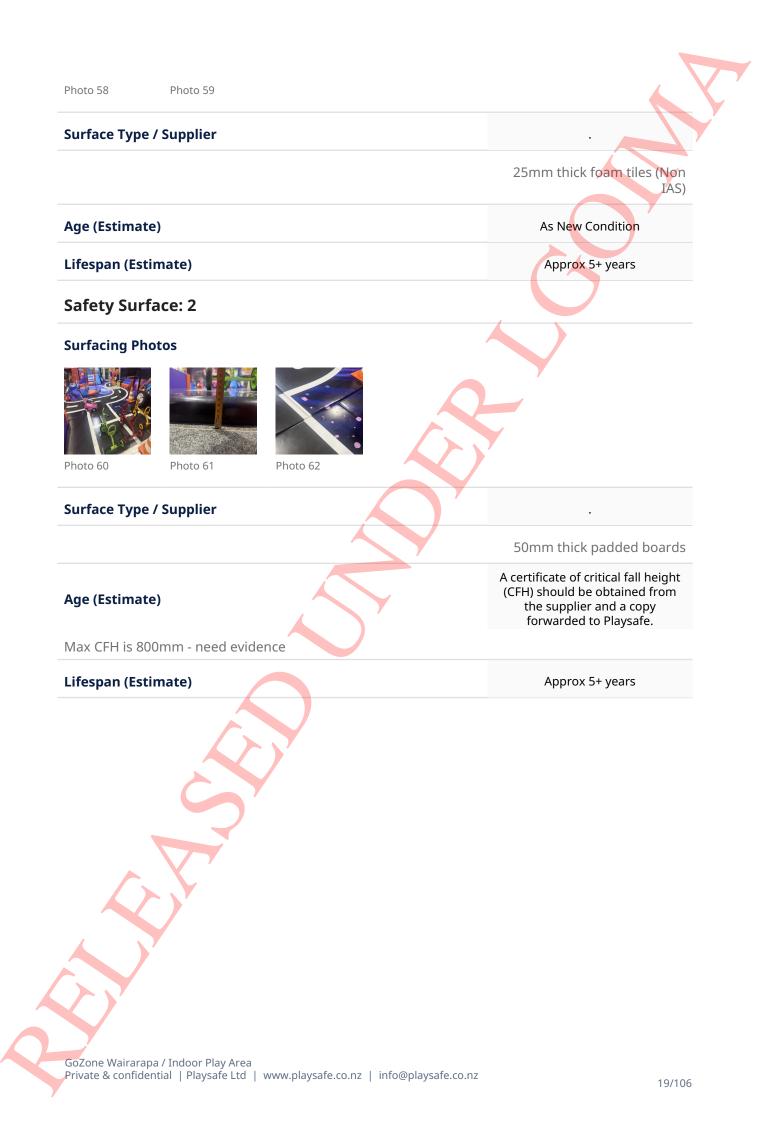
Adequate if staff are permanently positioned on main play structure as it is obstructed from reception view. The raft slide will also require constant and specific supervision at all times when in use.

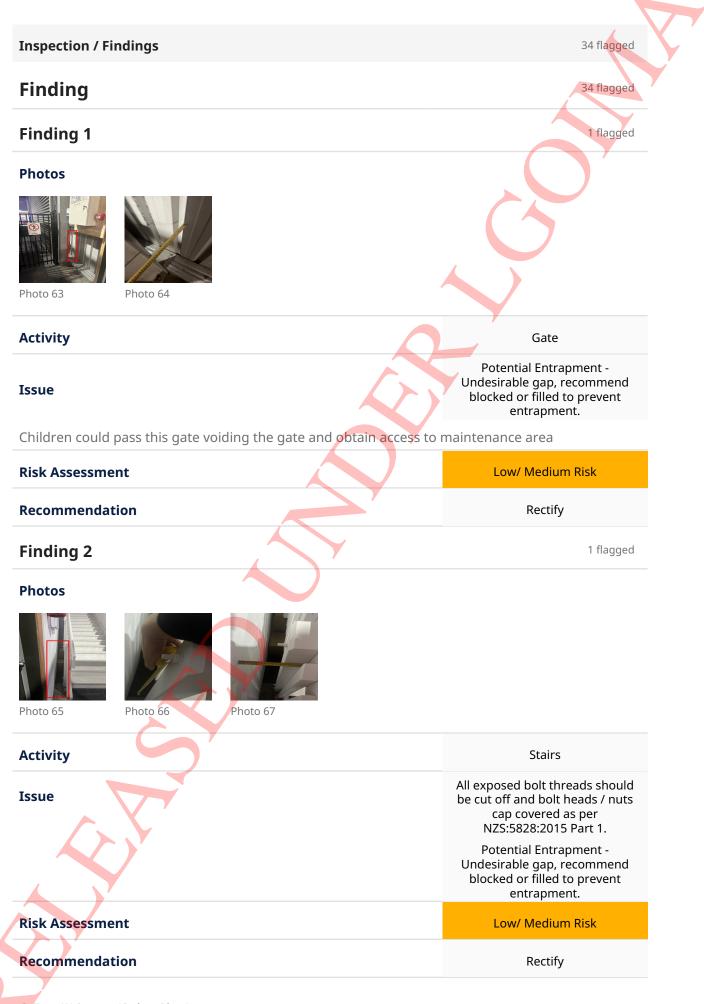
#### Control measures should be in place to ensure that the maximum number of occupants is not exceeded.

Occupancy to be mainly managed via bookings - Also supplier has deemed an approx capacity of around: Large play structure approx 80 capacity, Bouncing Area approx 20, Under 5's approx 30 - I suggest an approx/ estimate max occupancy as follows: Total max capacity 130 users plus and say 1:3 Caregiver ratio = 43, therefore total occupancy at any given time say 173 people.









#### **Photos**

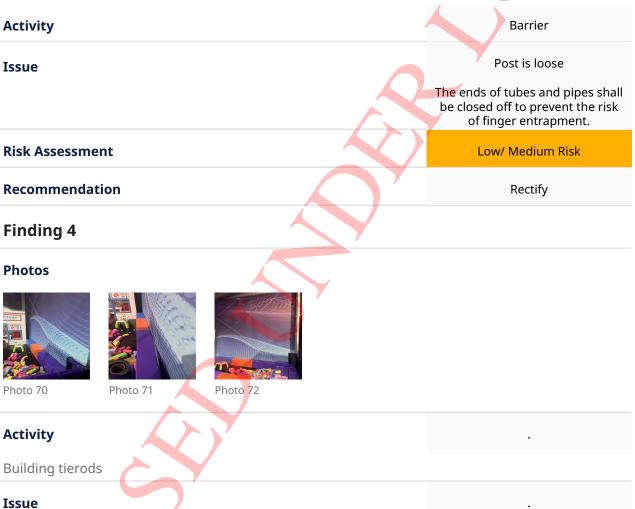




Photo 68

Photo 69

# D7B24B8D-5A57-4665-AAB5-984E144C44DF-video.mov



These are easily accessible from the ground and will most likely be climbed by adventuring children. I would suggest blocking/ covering the lower portion of them to remove accessibility

Risk Assessment	Low Risk
Recommendation	Rectify
Finding 5	1 flagged

1 flagged

#### **Photos**





Photo 74



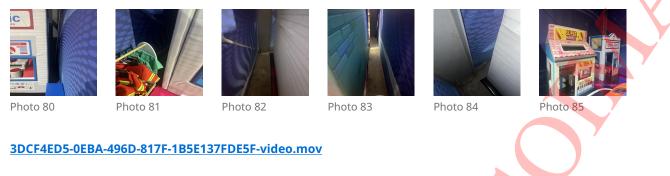


Photo 76



Photo 77

Activity	Barrier
Issue	Barrier - The height to the top of the barrier shall be at least 700 mm measured from the surface of the platform, stairs or ramp.
	Climbing is reasonably foreseeable on this item especially if movable resources are placed next to it.
	Relocate/ reconfigure the movable equipment to achieve min fall zone / falling space requirements.
Risk Assessment	Low/ Medium Risk
Recommendation	Rectify
Finding 6	
Photos	
Photo 78 Photo 79	
Activity	Panel
Issue	Missing fastenings - Replace.
Risk Assessment	Low Risk
Recommendation	Refasten
Finding 7	1 flagged
Photos	
, J	



6D775782-40EB-486D-8EEA-8C041D390BB9-video.mov

Activity

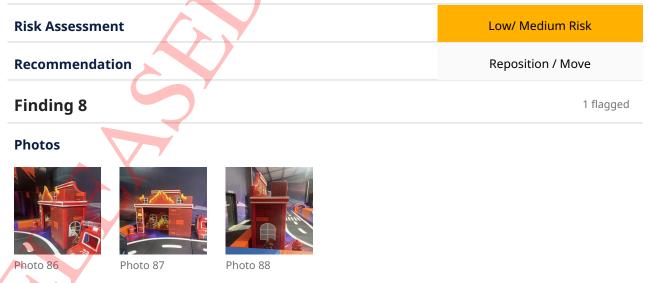
Issue

Play village

Inadequate Lighting within play equipment. Good visibility is essential to the safety management of fully enclosed play equipment. Effective supervision and monitoring are dependent upon it and fire risk assessment research has shown it is important for successful search and rescue. As per NZS 5828:2015 Part 10. The lighting used should give a good colour rendering of all surfaces and avoid glare or pools of light and shade inside the facility. Insufficient lighting encourages vandalism fires etc.

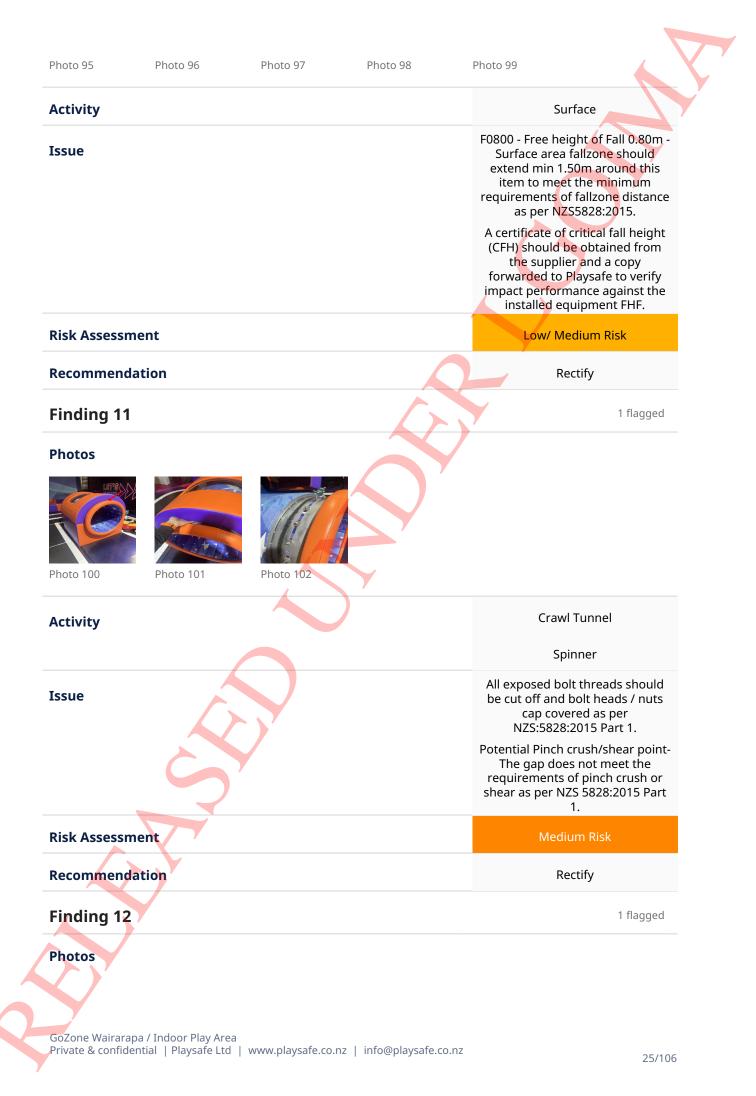
Hidden enclosure with no supervision line of sight and insufficient natural light encourages vandalism fires etc.

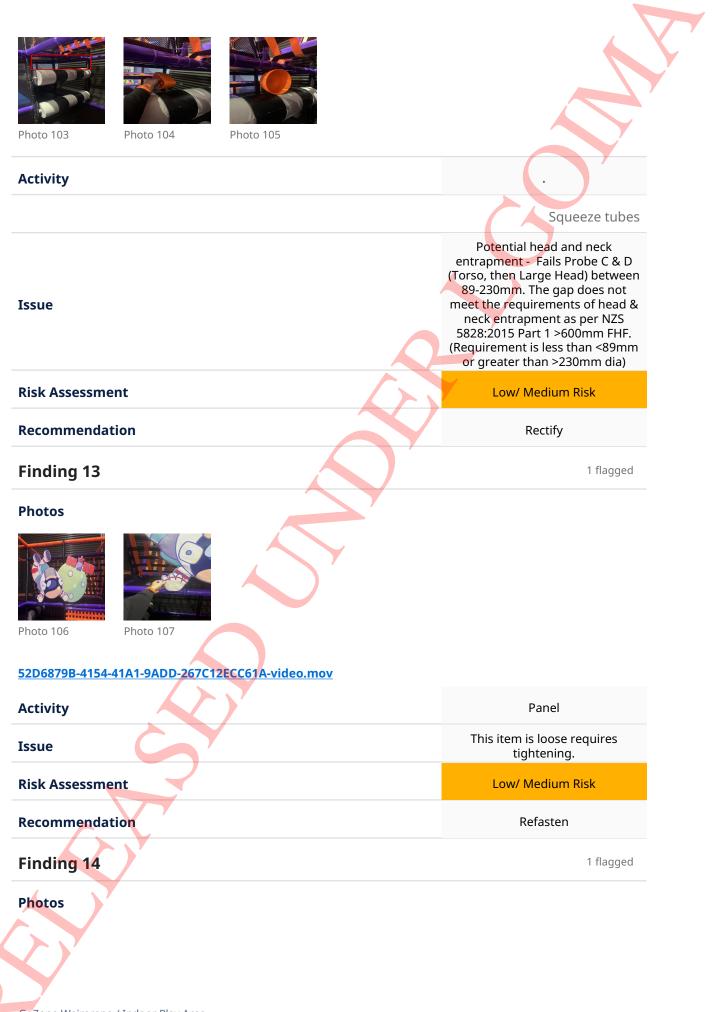
Some blind spots exist in the under 5's area - recommend the dark voids that are not well lit behind the village are addressed (i.e blocked), these are undesirable gaps that are difficult to supervise.

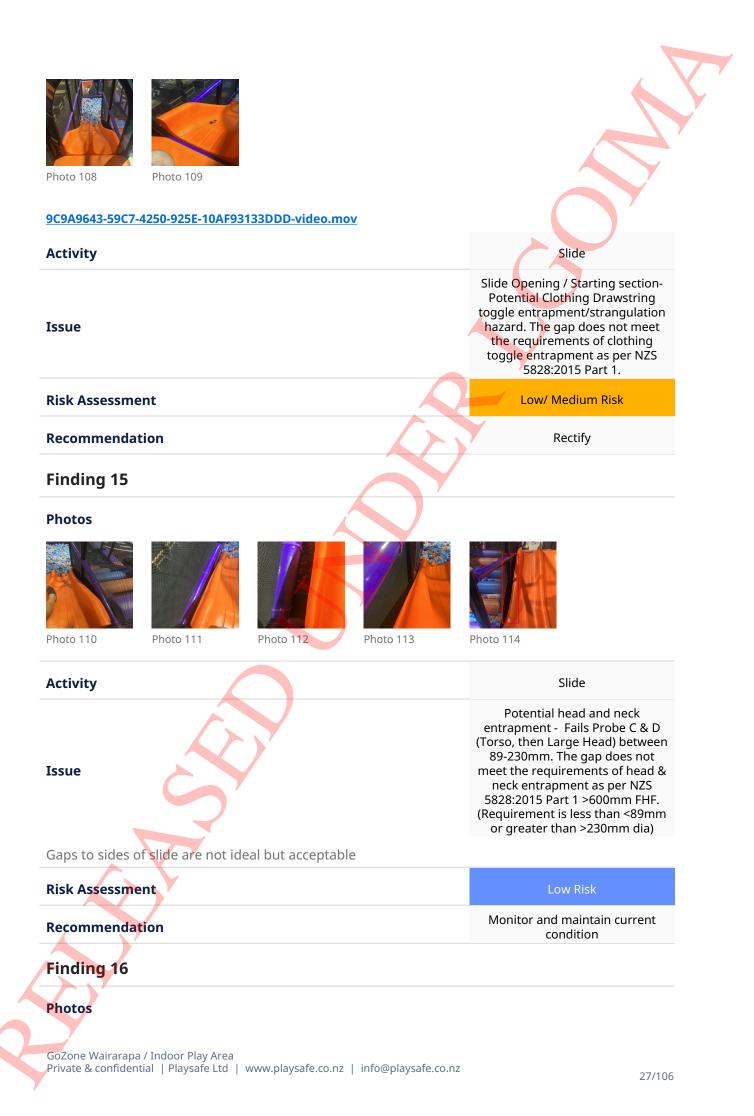


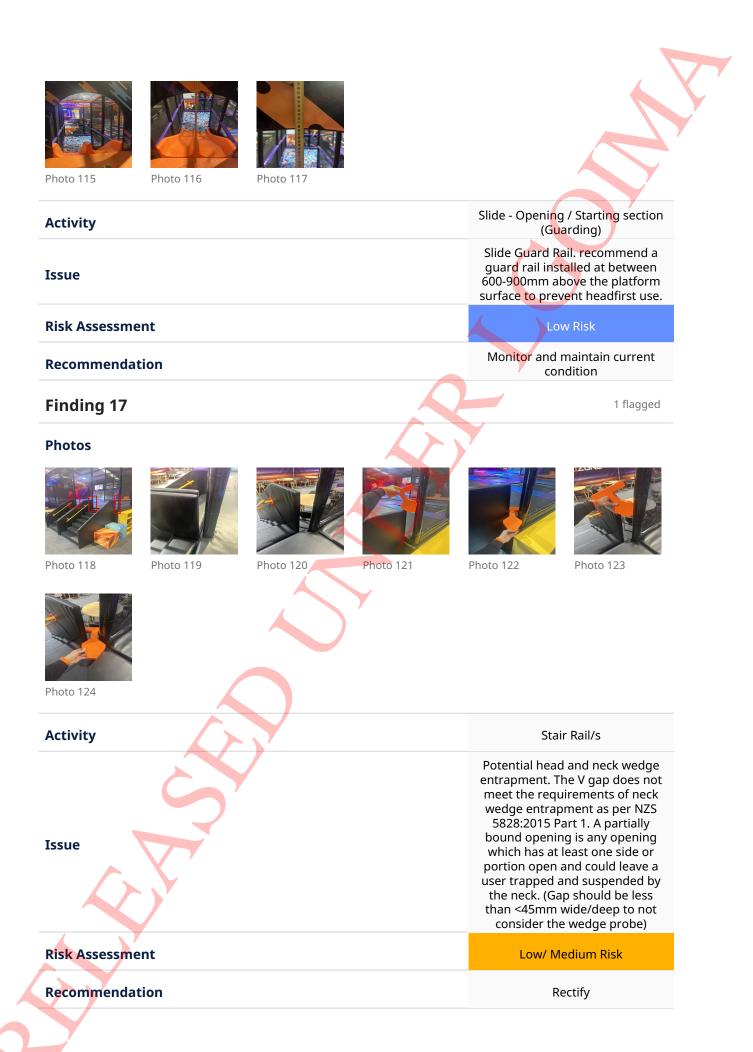
#### 8932698E-4E17-4226-806D-D5CB45B37C5D-video.mov

# Activity Fire house Excessive movement / racking on this item. Recommend further Issue bracing. Given the narrow, tall shape / This should be wall or floor mounted Low/ Medium Risk **Risk Assessment** Refasten Recommendation Reposition / Move 1 flagged **Finding 9 Photos** Photo 89 Photo 90 Photo 91 Photo 92 Photo 94 Photo 93 Activity Police station Potential head and neck entrapment - Fails Probe C & D (Torso, then Large Head) between 89-230mm. The gap does not meet the requirements of head & Issue neck entrapment as per NZS 5828:2015 Part 1 >600mm FHF. (Requirement is less than <89mm or greater than >230mm dia) **Risk Assessment** Low/ Medium Risk **Recommendation** Rectify Finding 10 1 flagged Photos -4









#### Photos







Photo 125

Photo 126

Photo 127

#### Activity

Issue

Bounce/tramp area

No compliance issue with this reported for fit and finish information only.

Gaps between pads will open up during use, will be a constant job for staff to reposition panels and pads to mitigate trip hazards

Risk Assessment	Low Risk
Recommendation	Monitor and maintain current condition
Finding 19	1 flagged
Photos	
Photo 128 Photo 129 Photo 130	
Activity	Trampoline
High Jump/ Acrobatic tramp	
Issue	There are potential falls to lower blunt hard objects possible. Hard objects in the falling space do not meet the NZS 5828:2015.
Remove these blocks, they are not adequate for impact from the up	per platform.
Risk Assessment	Medium Risk
Recommendation	Reposition / Move
Finding 20	

#### **Photos**

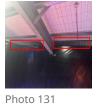




Photo 132



Photo 133

#### Activity

Issue

Roof Potential head and neck entrapment - Fails Probe C & D (Torso, then Large Head) between 89-230mm. The gap does not meet the requirements of head & neck entrapment as per NZS 5828:2015 Part 1 >600mm FHF. (Requirement is less than <89mm or greater than >230mm dia)

Trampoline

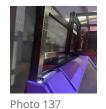
Not easily accessible but should be closed/blocked all the same

# **Risk Assessment** Recommendation Rectify Finding 21 1 flagged **Photos** Photo 136 Photo 134 Photo 135 Activity Ноор All exposed bolt threads should Issue be cut off and bolt heads / nuts

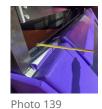
cap covered as per NZS:5828:2015 Part 1. Missing fastenings - Replace. Low/ Medium Risk **Risk Assessment** Recommendation Rectify Finding 22

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#### **Photos**











#### Activity

Issue

Photo 138



Basket ball / incline tramps

A flat horizontal or near horizontal surface over 70mm width could encourage sitting or standing and may increase the potential free height of fall.

Low/ Medium Risk

Reposition / Move

1 flagged

Access via quarter round leaner pad is reasonably foreseeable - Potential falls over 3.0m onto concrete floor - curved foam seat to top of wall is 1350mm and has a flat section (body support) on top. Move leaner pad.

<b>Risk Assessment</b>	
------------------------	--

Recommendation

**Finding 23** 

#### **Photos**





Photo 141

#### 5C7C207D-4119-498C-9E4F-EAF878DC964A-video.mov

#### 992CB38D-E9D3-4131-ADBE-7A0F60C9008B-video.mov



1 flagged

#### **Photos**



Photo 144

Photo 145



#### Activity

#### Issue

No impact attenuating surface exists. It is essential that for potential falls >600mm FHF an impact attenuating surface is installed to meet the critical fall heights of the play equipment as per NZ\$5828:2015

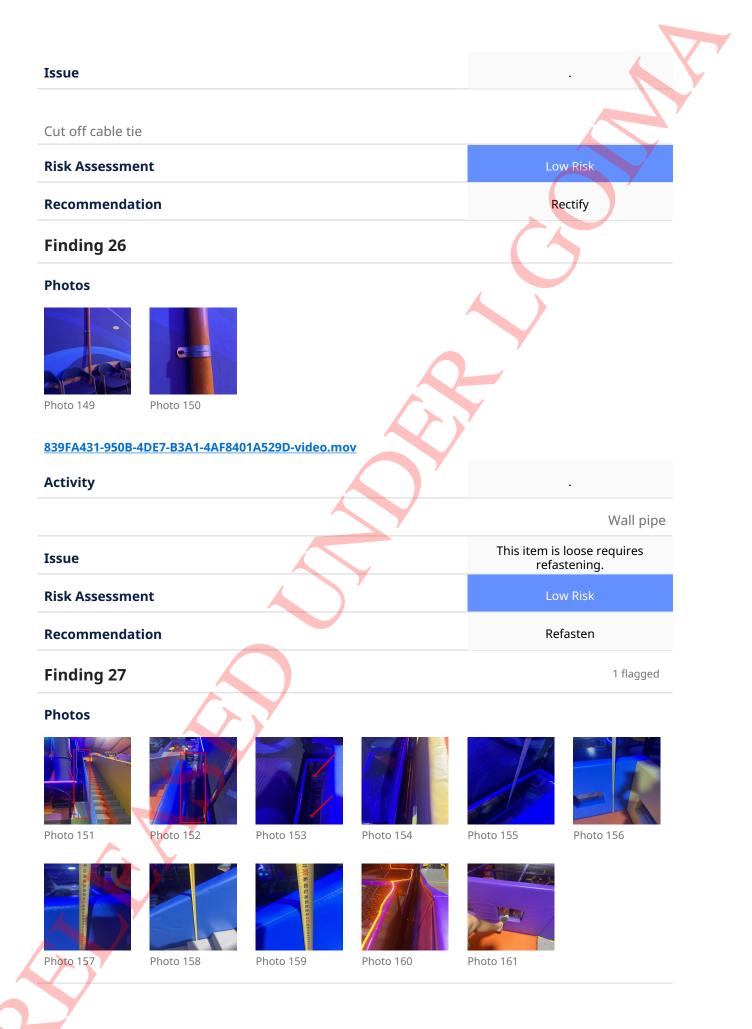
Rockwall

Activity body support height exceeds the maximum 3m free height of fall requirements of the NZ5828:2015. Falls from these heights could pose life-threatening head neck or back injury.

Thise design and placement of rock holds to the top of the wall coupled with the large flat horizontal section on the top of wall encourages climbing and sitting/standing. Behind the wall is a gap/void with a free-fall to the concrete floor.

I would suggest some tows of rocks are removed and/or a reverse return is added to eliminate the possibility of climbing ontop.

Risk Assessment	High Risk (Close ASAP)
Recommendation	Rectify
Finding 25	
Photos	
Photo 147 Photo 148	
Activity	Trampoline
	Fence Panel
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Activity	Tower Slide
Issue	Barriers - There shall be no intermediate horizontal or near horizontal rails or bars that can be used as steps by children attempting to climb. The design of the top of the barriers should not encourage children to stand or sit on them, nor should any infilling encourage climbing. Exceeds the maximum 3m free height of fall requirements of the NZ5828:2015. Falls from these heights could pose
	life-threatening head neck or back injury.
	Barriers do not eliminate the requirement for protection for falling and surfacing. There should be no hard objects within the falling space. To eliminate falling space consideration would need a fulled enclosed structure.
	A flat horizontal or near horizontal surface over 70mm width could encourage sitting or standing and may increase the potential free height of fall.
Risk Assessment	High Risk (Close ASAP)
Recommendation	Rectify
Finding 28	
Photos	Deto 165
Activity	Crawl Tunnel
Issue	All exposed bolt threads should be cut off and bolt heads / nuts cap covered as per NZS:5828:2015 Part 1.
Risk Assessment	Low Risk
	Rectify
Recommendation	

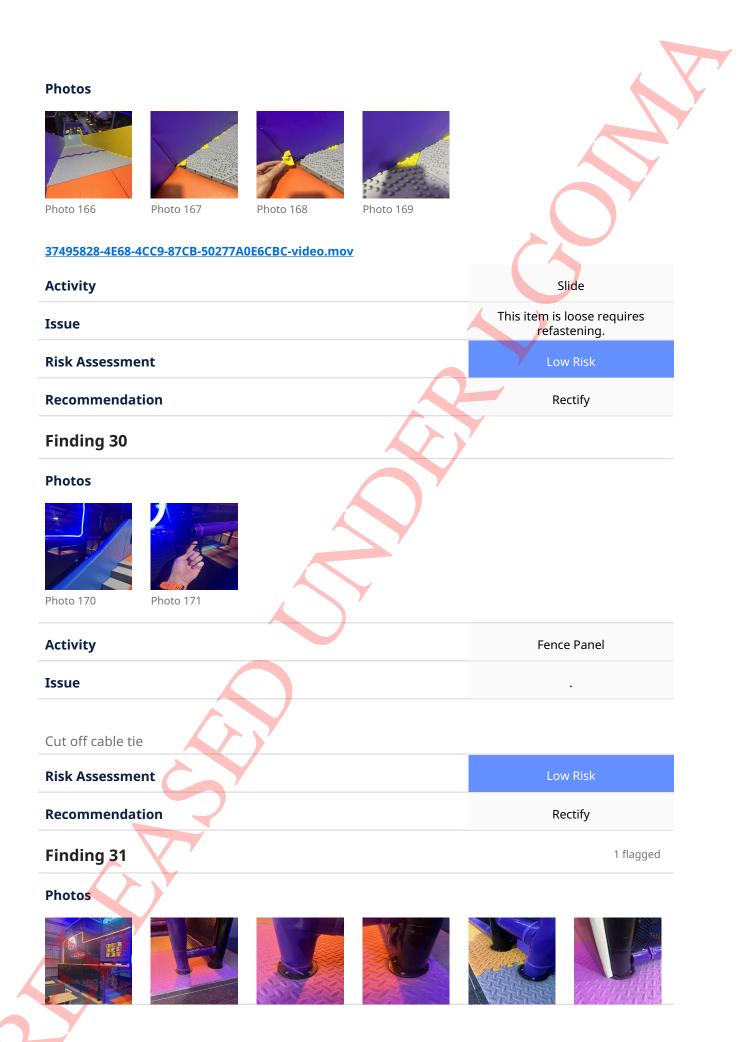
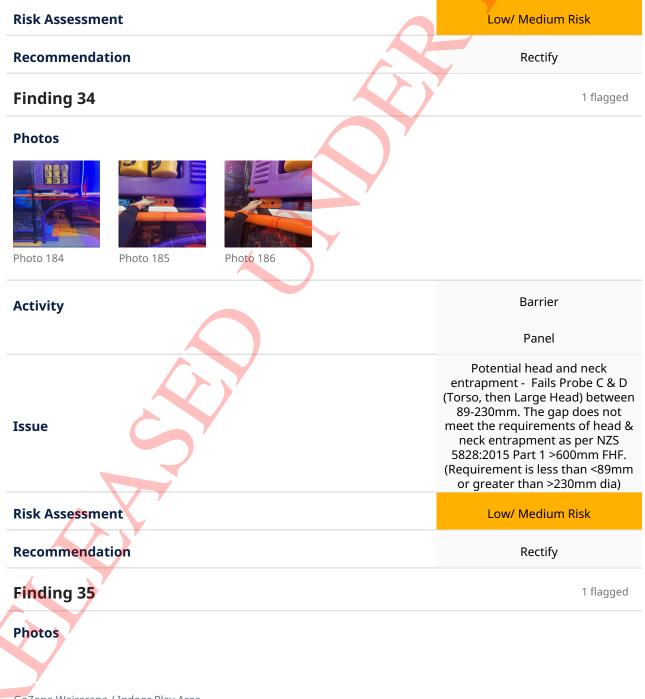


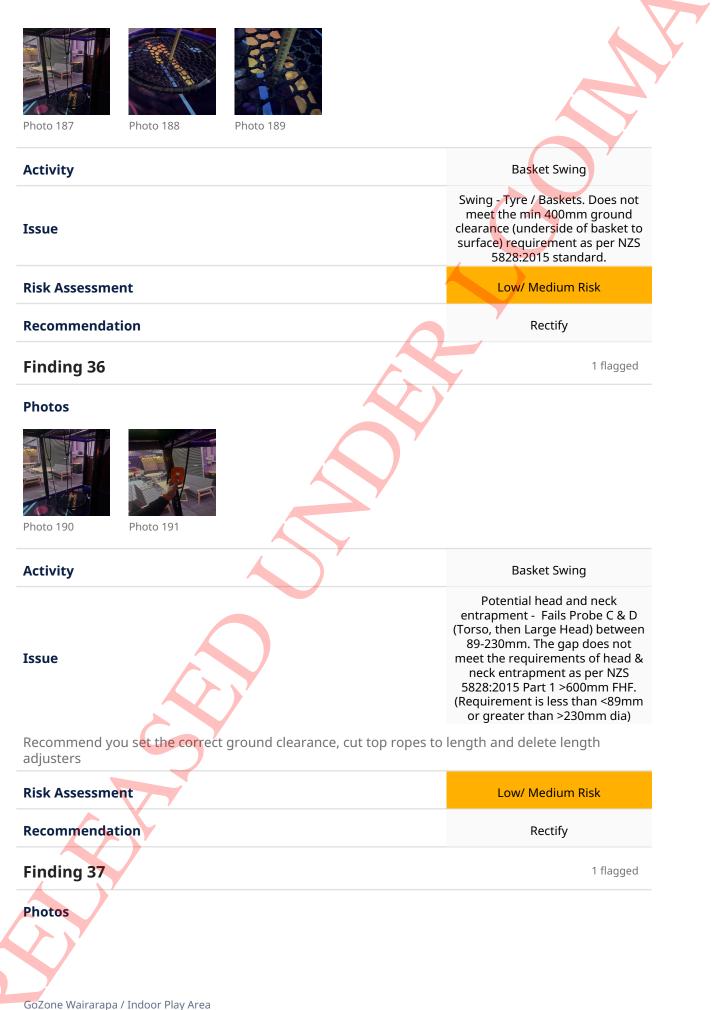
Photo 172	Photo 173	Photo 174	Photo 175	Photo 176	Photo 177	
Activity				Multipla	y Structure	
Issue				Missing faste	nings - Replace.	
				d highly recommer nge plates assume		
Risk Assessr	nent			Low/ M	edium Risk	
Recommend	lation			Re	ectify	
Finding 32	2				1 flagge	
Photos						
Photo 178	Photo 179	Photo 180				
Activity						
					Projecto	
Issue				No compliance issue with this - reported for fit and finish information only.		
Wiring shoul	d be tidied up an	d inaccessible		_		
Risk Assessr	ment			Low/ Medium Risk		
Recommend	lation			Rectify		
Finding 33					1 flagge	
Photos						
Photo 181	Photo 182	Photo 183	-			
2E046B17-3AC	<u>28-4E36-A4C6-F42D</u>	012BA993B-video.r	nov			
Activity					•	

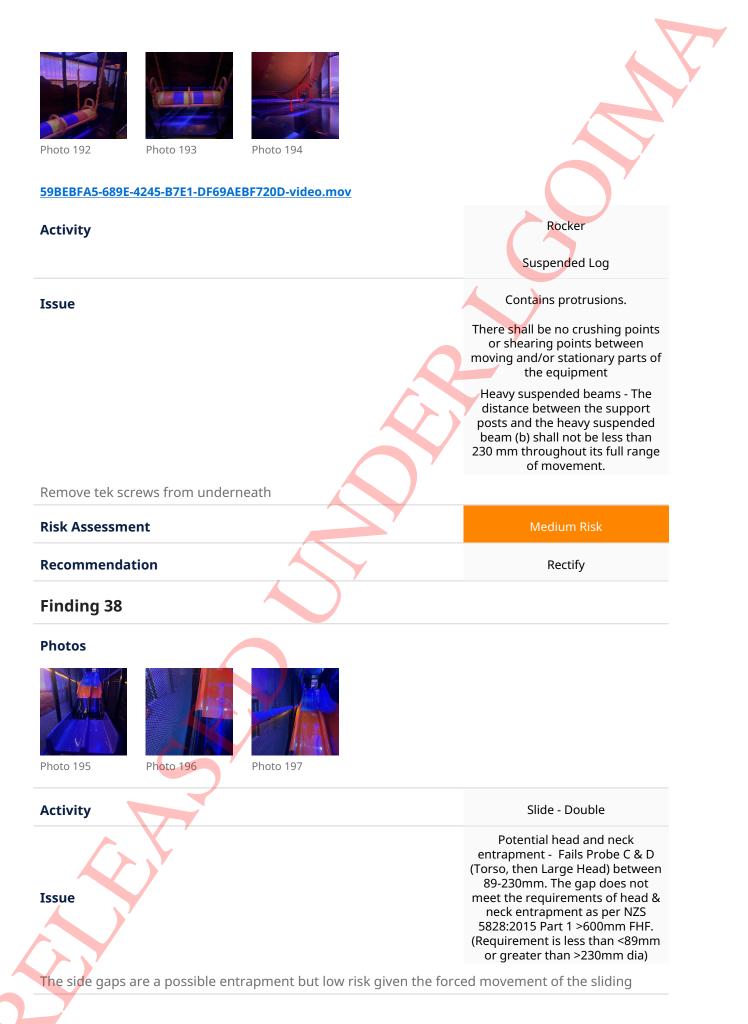
Potential head and neck wedge entrapment. The V gap does not meet the requirements of neck wedge entrapment as per NZS 5828:2015 Part 1. A partially bound opening is any opening which has at least one side or portion open and could leave a user trapped and suspended by the neck. (Gap should be less than <45mm wide/deep to not consider the wedge probe)

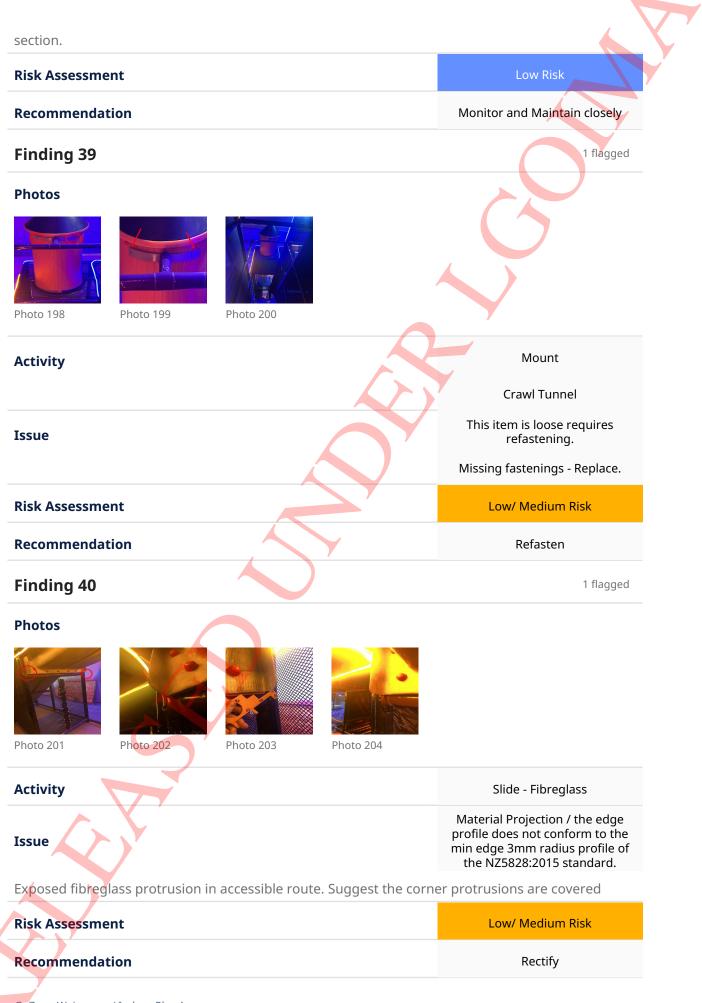
Th gaps above the fixed panels and the revolving panels are a A/B probe non-compliance. They are a position 2 wedge as per EN 1176 and ideally the gaps between the top of these panels and structure above should be less than 45mm or over 230mm



#### Issue







#### Photos





Photo 205

Photo 206

# Activity

Issue

**Risk Assessment** 

Recommendation

# Finding 42

#### Photos



Photo 207

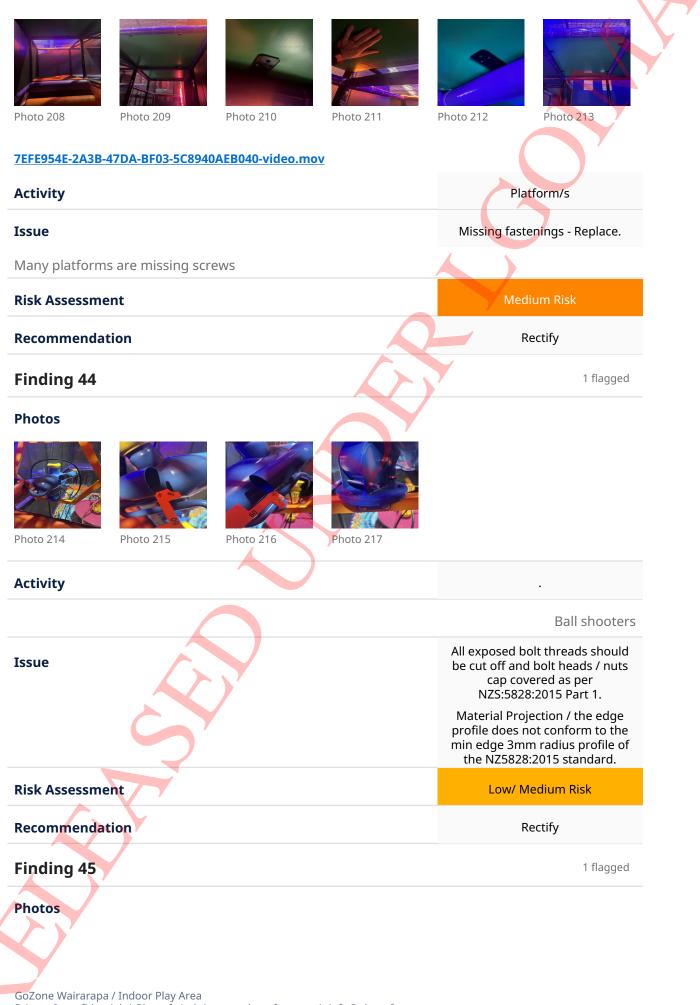
#### 42ED7B18-74B4-4503-A03D-83AF424B25FE-video.mov

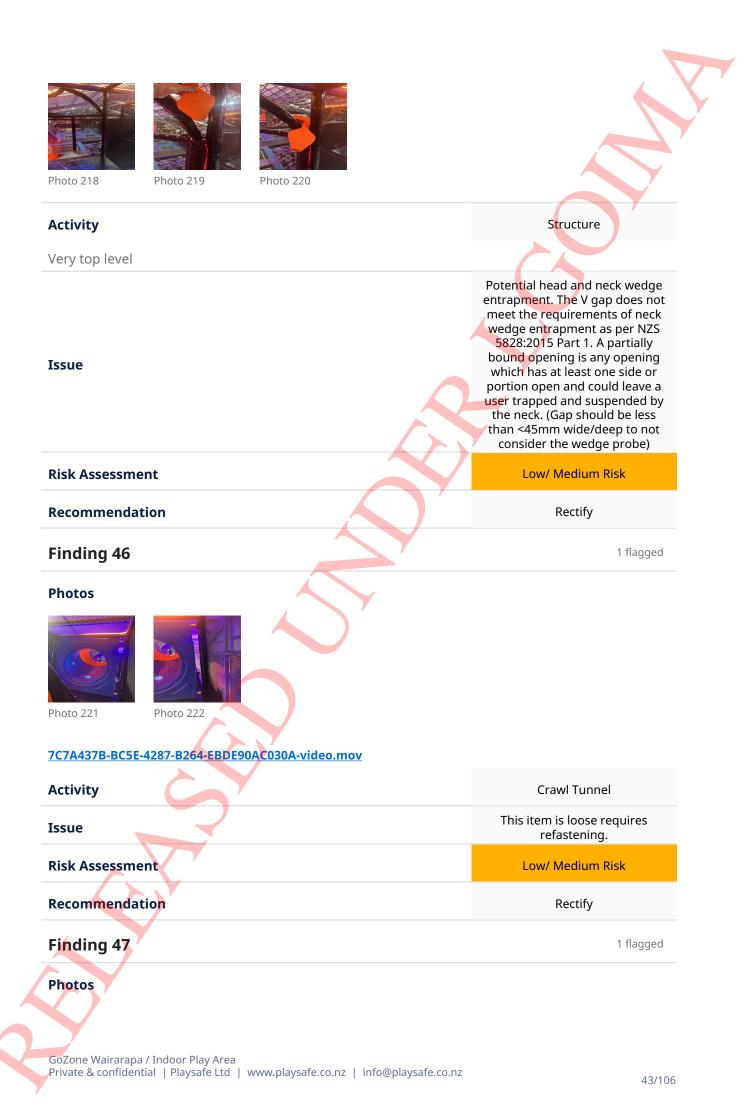
Activity	Trackride
Issue	Monorail Trolley - running rough / worn and damaged wheels. Monorail Trolley - Recommend replacing wheels with nylon covered versions - these are quieter running and prolong the life of the trolley and track.
Risk Assessment	Low Risk
Recommendation	Rectify
Finding 43	1 flagged
Photos	

Chain links

Remove excess chain links.

Remove







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## **Compliance Summary**

### **Equipment marking / labelling**

Add suppliers tag that states contact details, year of manufacture and standard.

#### **Structural Stability**

Dynabolt the main play structure at very least at primary corner points, using flange plates provided.

#### **Entrapments**

Correct all entrapments to EN1176 / NZS 5828

Falling Spaces / Fallzone / Impact Areas / Hard Objects

Enclose any fall areas greater than 600mm to hard surfaces. (Raft slide and Rockwall issue)

Fall heights (FHF)	Satisfactory
Ground Clearances	Non-compliant (fails to meet the requirements of NZS5828:2015 - see report findings for details)
Rocker and basket swings	
Surface (Synthetics) CFH	A certificate of critical fall height (CFH) should be obtained from the supplier and a copy forwarded to Playsafe to verify impact performance against the installed equipment FHF.
Require CFH cert for under 5' area pads	
Materials / Finishes / Protrusions	Non-compliant (fails to meet the requirements of NZS5828:2015 - see report findings for details)
As per report, cable ties, protrusions, bolt threads tube ends etc	

Management of the Play Area

Forward policy and procedures when complete

# **Compliance Status (at time of inspection)**

#### Final Outcome / Compliance Status

The minimum compliance requirements of NZS5828: 2015 have not yet been met. To achieve a certificate of complaint please resolve the FLAGGED items on page 4 of this report.

Unsatisfactory

Non-compliant (fails to meet the requirements of NZS5828:2015 see report findings for details)

Non-compliant (fails to meet the requirements of NZS5828:2015 see report findings for details)

Non-compliant (fails to meet the requirements of NZS5828:2015 see report findings for details)



Unsatisfactory

### Inspector

#### **Inspection label applied**

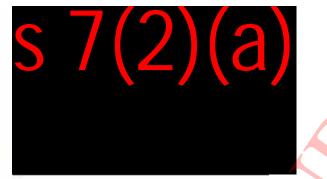


Photo 235

#### Inspector

Adam Stride - Director | Principal | RPII L3 Outdoor & L4 Enclosed Play Area Inspector M#1074A / M#1023AF

Adam Stride



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### Media summary



Photo 1



Photo 3



Photo 5



Photo 2



Photo 4





Photo 7







Photo 9

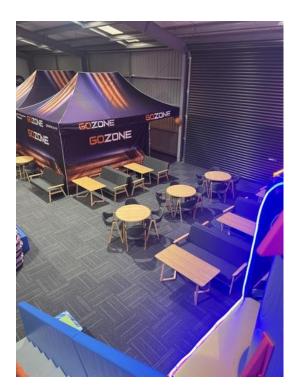




Photo 12

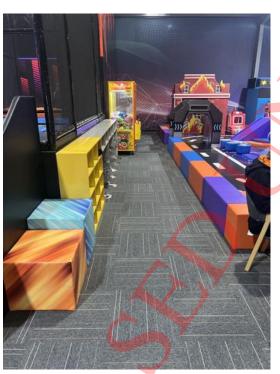




Photo 14

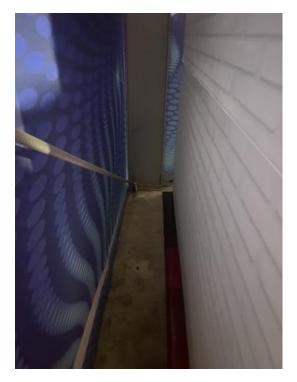




Photo 16



Photo 17



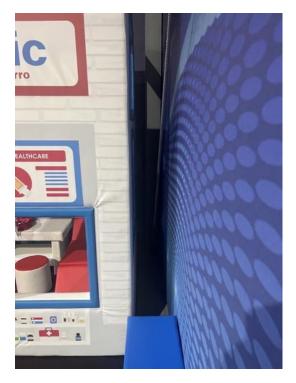


Photo 19



Photo 20



Photo 22

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Photo 25



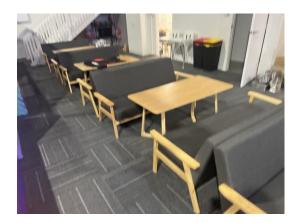


Photo 27





Photo 28





Photo 31





Photo 34











Photo 36







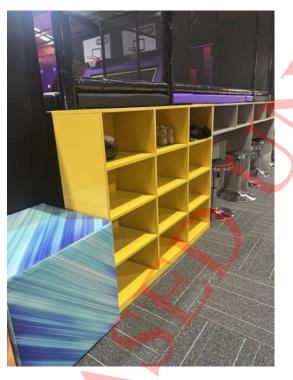




Photo 40



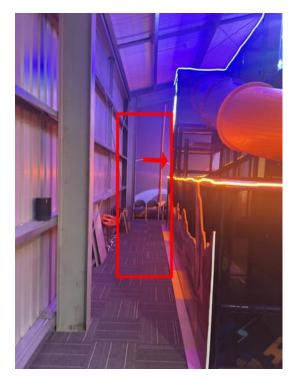




Photo 45

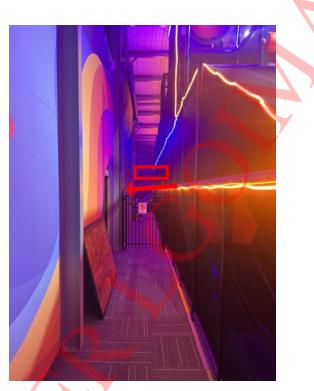


Photo 44



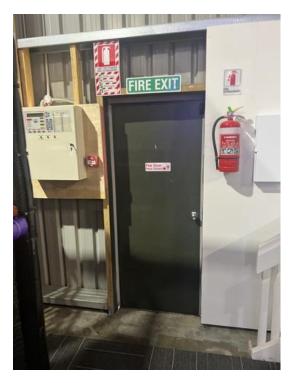


Photo 47

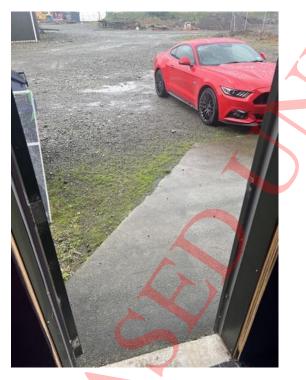




Photo 48





















Photo 56







Photo 59





Photo 63



Photo 62











Photo 66



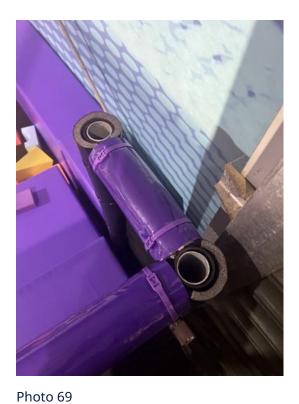


Photo 70











Photo 75

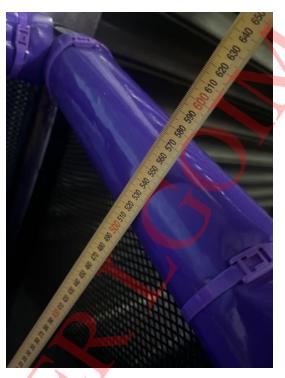


Photo 74







Photo 79



Photo 78



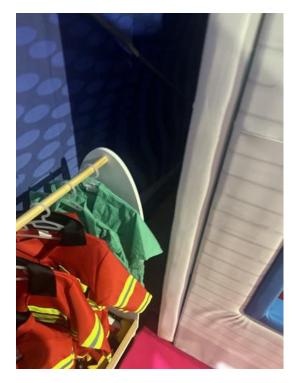
















Photo 86



Photo 87







Photo 90



Photo 91







Photo 94





Photo 95



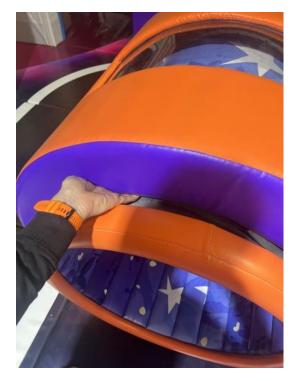
Photo 97





Photo 98





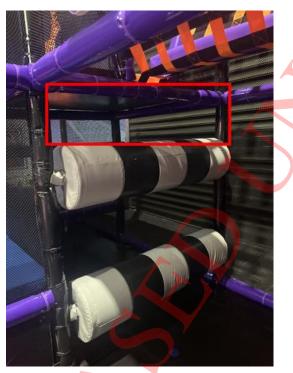


Photo 103

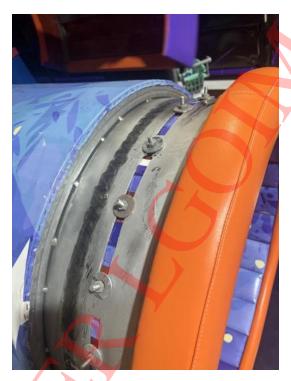
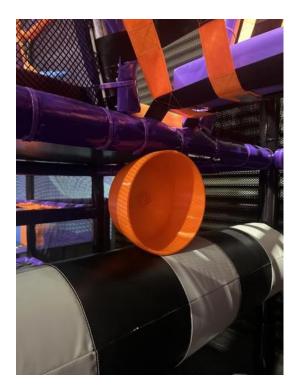


Photo 102







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Photo 106

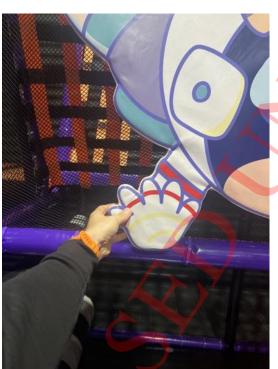


Photo 107



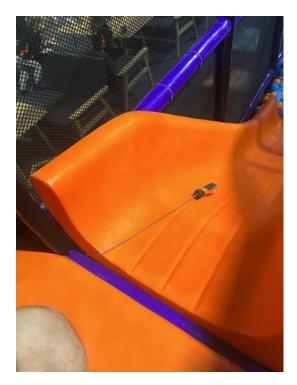
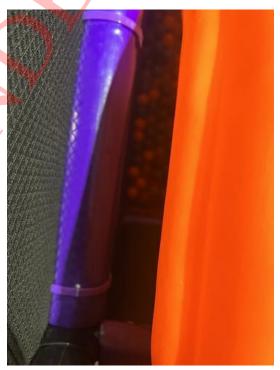




Photo 111



Photo 110



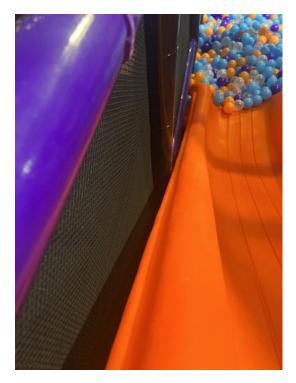




Photo 115



Photo 114

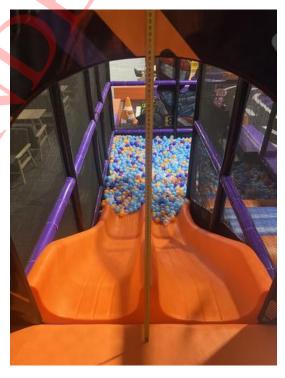


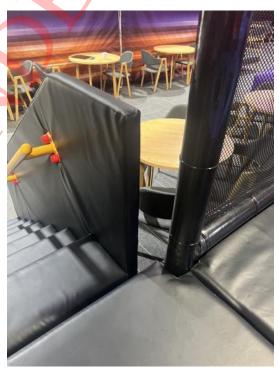


Photo 117





Photo 118



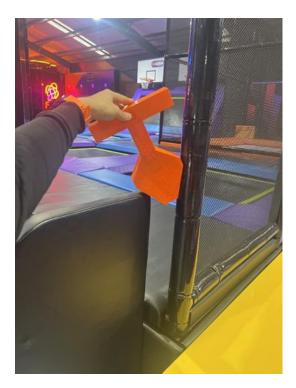




Photo 123



Photo 122



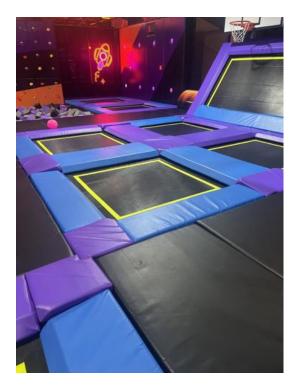


Photo 125





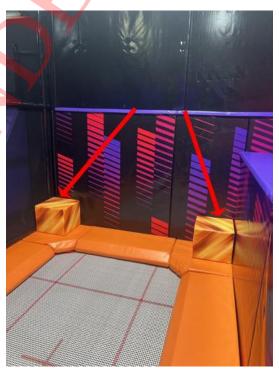










Photo 132





Photo 135



Photo 134



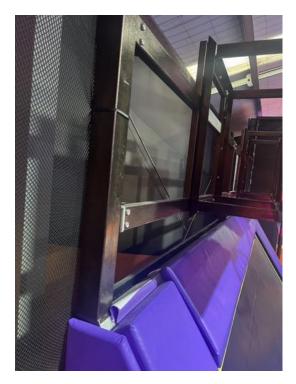
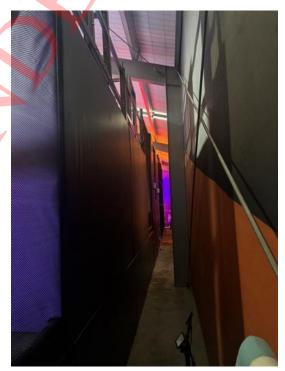




Photo 139



Photo 138



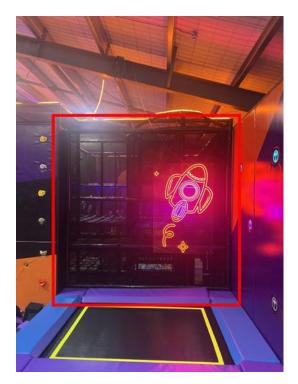


Photo 141







Photo 144



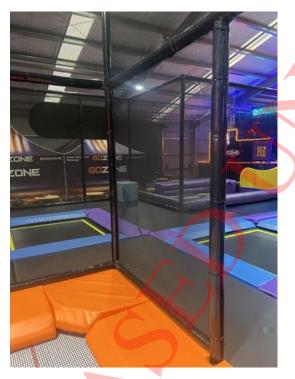


Photo 147





Photo 148



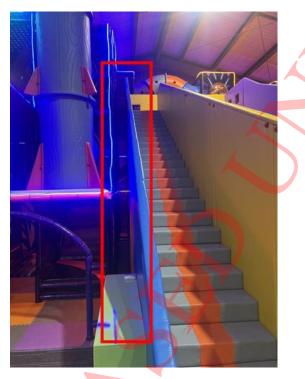


Photo 151



Photo 150

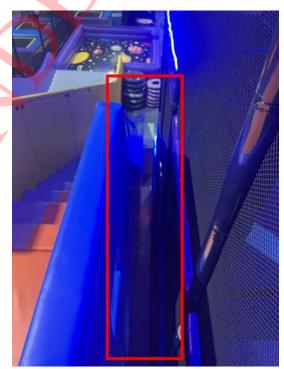


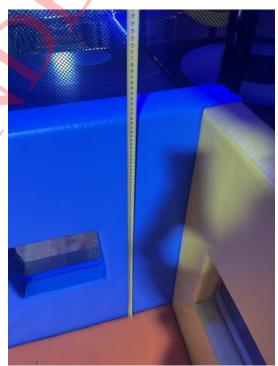




Photo 155



Photo 154



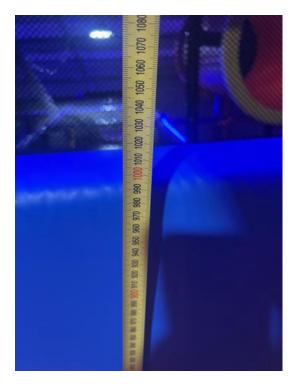


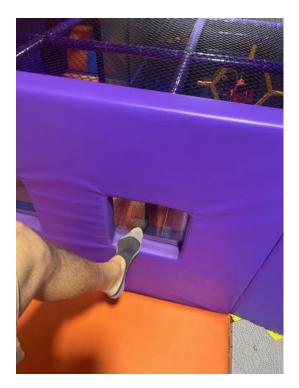


Photo 158



Photo 159





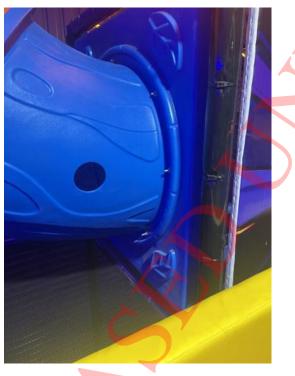


Photo 163



Photo 162



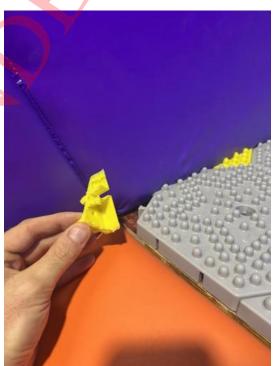


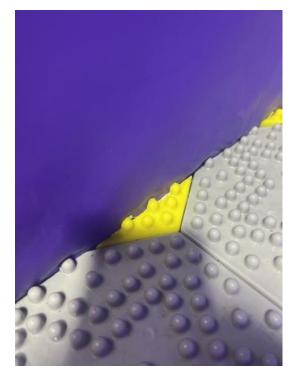


Photo 166



Photo 167





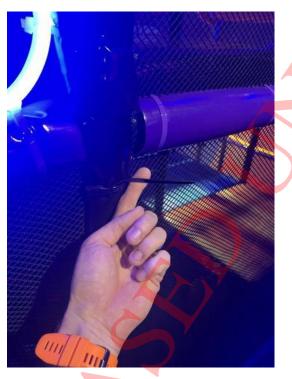


Photo 171

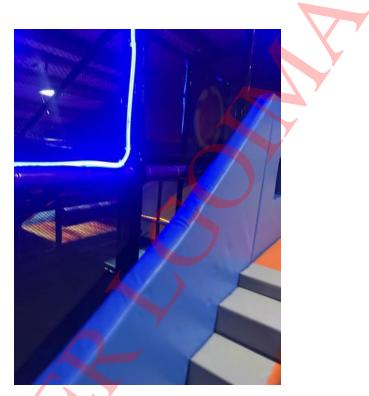


Photo 170







Photo 174



Photo 175







Photo 178



Photo 179





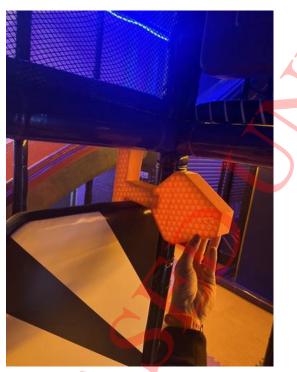


Photo 183



Photo 182







Photo 187



Photo 186

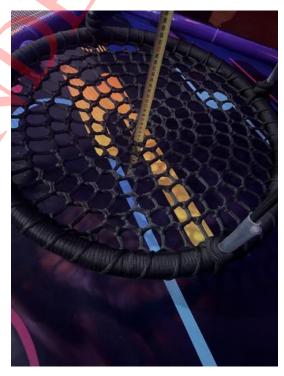






Photo 191



Photo 190





Photo 193





Photo 194



Photo 196

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Photo 198

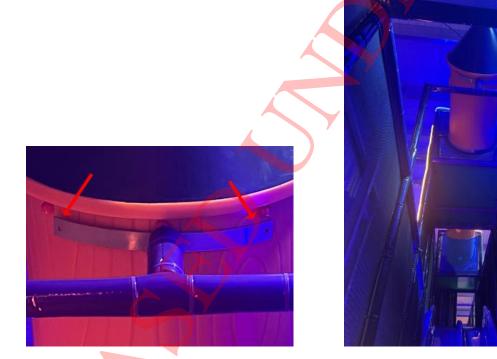


Photo 199





Photo 203

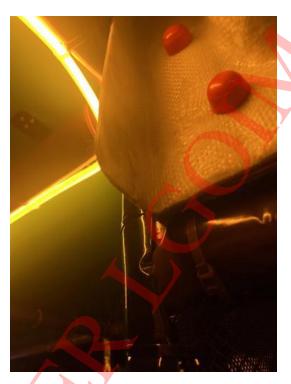
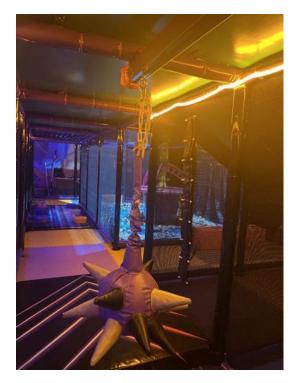


Photo 202





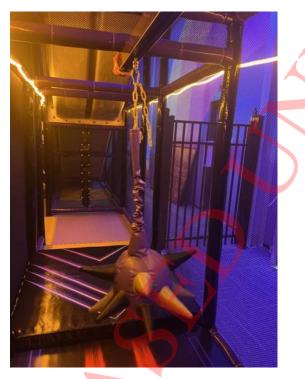


Photo 207



Photo 206



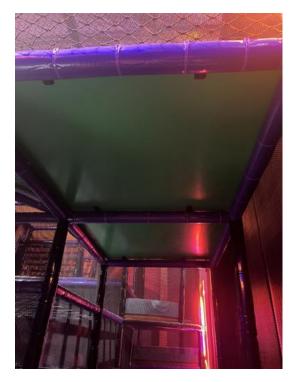


Photo 209



Photo 211





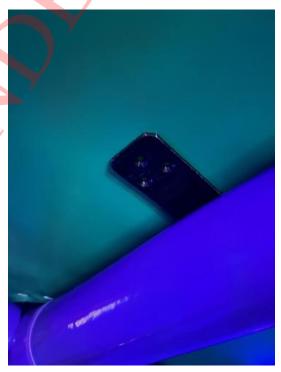






Photo 213



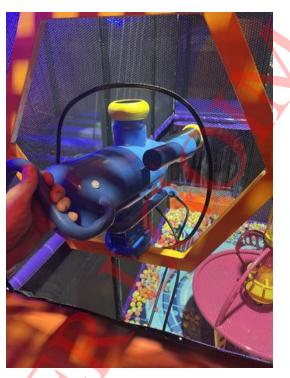


Photo 214



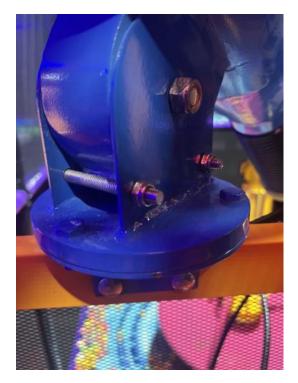


Photo 217



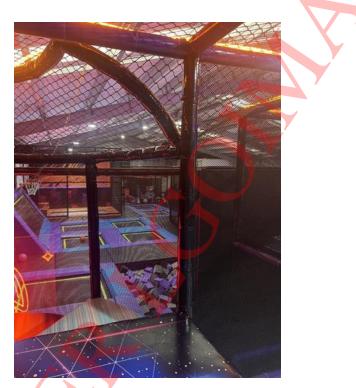


Photo 218





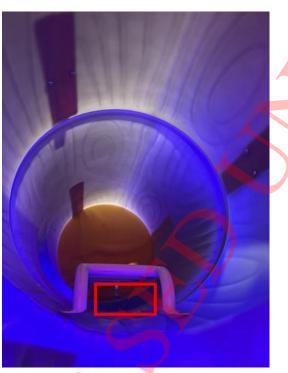


Photo 223

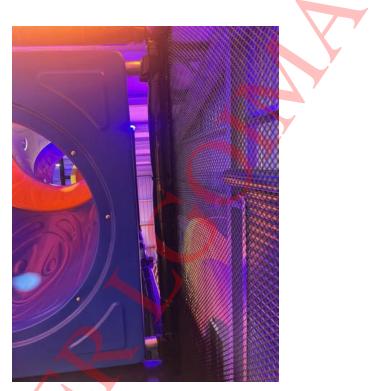


Photo 222







Photo 227

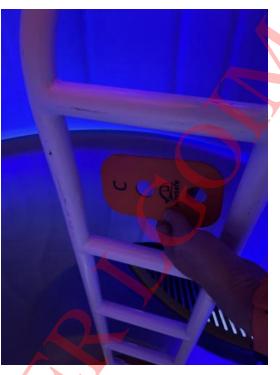


Photo 226

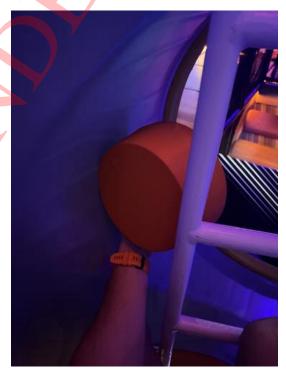




Photo 231

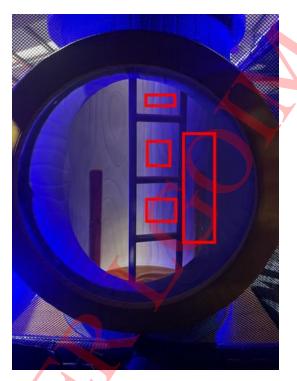


Photo 230

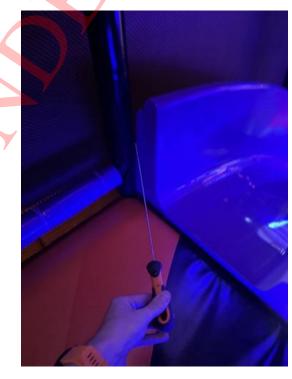


Photo 232

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Photo 234



Photo 235

D7B24B8D-5A57-4665-AAB5-984E144C44DF-video.mov 3DCF4ED5-0EBA-496D-817F-1B5E137FDE5F-video.mov 6D775782-40EB-486D-8EEA-8C041D390BB9-video.mov 8932698E-4E17-4226-806D-D5CB45B37C5D-video.mov 52D6879B-4154-41A1-9ADD-267C12ECC61A-video.mov 9C9A9643-59C7-4250-925E-10AF93133DDD-video.mov 5C7C207D-4119-498C-9E4F-EAF878DC964A-video.mov 992CB38D-E9D3-4131-ADBE-7A0F60C9008B-video.mov 839FA431-950B-4DE7-B3A1-4AF8401A529D-video.mov 37495828-4E68-4CC9-87CB-50277A0E6CBC-video.mov 2E046B17-3AC8-4E36-A4C6-F42D12BA993B-video.mov 59BEBFA5-689E-4245-B7E1-DF69AEBF720D-video.mov 42ED7B18-74B4-4503-A03D-83AF424B25FE-video.mov 7EFE954E-2A3B-47DA-BF03-5C8940AEB040-video.mov 7C7A437B-BC5E-4287-B264-EBDE90AC030A-video.mov



## DISCLAIMER

The assessors believe the information contained within our risk assessment reporting to be correct at the time of printing. The assessors do not accept responsibility for any consequences arising from the use of the information herein.

The report is based on matters which were observed or came to the attention of the assessors during the day of the assessment and should not be relied upon as an exhaustive record of all possible risks or hazards that may exist or potential improvements that can be made. Inspections conducted in accordance with the NZS5828:2015 / EN1176:2008 Playground Safety Standards. Additionally NZS5828 Appendix A Supervised early childhood, EN1177 Surfacing.

## CONFIDENTIALITY

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

## PROFESSIONALISM

Our professional services are certified, independent, impartial, and confidential. Playsafe is unprejudiced and unbiased, we are PROFESSIONALS and will only ever conduct ourselves to ensure our services are for the primary purpose of health and safety. Playsafe takes professionalism VERY seriously and abide by the strict code of conduct set by the Register of Playground Inspectors International.

## UNDERSTANDING

Playsafe conducts its services on the basis our clients understand and acknowledge the following: Playsafe is an certified RPII Playground compliance services provider, specialising in inspection, training and surface impact testing to NZS5828:2015/EN1176/EN1177 playground equipment and surfacing standards.

Playsafe Consulting Ltd is a qualified testing facility for playground compliance and surface impact testing services. We are NOT an AS/ISO agency or test laboratory. Our testing and certification is based on being a suitably qualified and recognised testing facility. We are not engineers and do not provide structural calculations. Should you require structural advice please seek an a chartered professional engineer.

## WHY US

With over 25 years of combined experience in the playground industry and an extensive background in playground design, compliance, construction, engineering and maintenance background. We pride ourselves on a very practical approach with comprehensive solutions based reporting services.

Playsafe is one of the most knowledgeable specialists in the industry with regard to the different types and properties of impact absorbing surfaces.



## Inspect | Prevent | Protect





# PLAY SAFETY

Playgrounds offer kids the chance to enhance their physical, cognitive, perceptual, and social abilities while also providing a physically demanding environment.

Unfortunately, they can also be the source of preventable injuries that cause serious harm. By undergoing certified safety inspections and adhering to basic safety requirements, many of these unintentional injuries can be prevented.

### **ABOUT US**

Playsafe Consulting Ltd is New Zealand's leading provider of playground professional services, including safety inspections, surface impact testing, design reviews, and inspection training. We serve Council Parks, Schools, and Early Childhood centers across the country.

As a holder of international accreditation from the Register of Playground Inspectors International (RPII), our services are highly recommended by the Ministry of Education and the Education Review Office. Our inspectors are independent, impartial, confidential, police vetted, and insured with professional indemnity.

With over 30 years of experience in the commercial park and recreation industry, our team has a deep understanding of playground design, construction, project management, compliance, and maintenance.

Our story is one of passion, dedication, and a commitment to making a difference.

## SERVICES

Playsafe specialises in playground safety services as follows:

- Design Review
- Certified Inspection
- Post-Install Inspection
- Surface Impact Testing
- Expert Witness/Injury Investigation
- Inspector Training



## Inspect | Prevent | Protect

### **Our Story**

Our story at Playsafe began with a passion for playground safety and a dedication to making a difference in the lives of children. Our founders, brought together their expertise in project management, engineering, and construction of playgrounds to create a company that could provide a unique level of safety and operational support to the playground industry.

#### **Our Team**

With over 30 years of experience in the commercial park and recreation industry, our team has a deep understanding of playground design, construction, project management, compliance, and maintenance.



### **Adam Stride**

Adam is the founder and director of Playsafe and has over two decades of expertise in the playground industry. With a strong background in design, compliance, manufacturing, construction, and project management, Adam is widely considered to be one of the most knowledgeable professionals in the industry when it comes to playground maintenance and compliance matters. He is a certified RPII Level 3 Outdoor Play Inspector and the only accredited RPII Level 4 Indoor Enclosed Play Inspector in New Zealand.

Adam is also an expert in conducting surface impact tests on various types of impact-absorbing playground surfaces, which is one of his specialties.





### **Daniel Winchester**

Daniel is a qualified RPII L3 Outdoor Play Inspector with a strong background in playground engineering and production. With over a decade of experience managing production for one of New Zealand's largest manufacturers, he brings a wealth of knowledge and insight to his role as a inspector at Playsafe.

Daniel's practical and solution-oriented approach to issues enhances the expertise of the Playsafe team.



playsafe Playground Safety

C BizCo

Certificate of Placement

## INSURANCE

Playsafe Consulting Ltd is an incorporated New Zealand owned and operated Limited liability company NZBN: 9429046546753

We are fully insured with comprehensive Professional Services Indemnity Insurance (\$1,000,000 coverage) and Public Liability Insurance (\$20,000,000 coverage).

## ACCREDITATION

Our inspectors at Playsafe are certified by the Register of Playground Inspectors International (RPII) at the international level. They hold accreditation for Level 3 Outdoor Play Inspection, Indoor/Enclosed Play Inspection, Operational Inspection, and HIC Impact Testing, and are experts in providing compliance services to the NZS5828 Playground Safety Standards. Additionally, Playsafe is the leading registered and accredited training and examination center for the RPII in New Zealand.



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#### **DEFINITIONS**

The official definitions may be found in the Standard. The explanations which follow attempt to explain them in everyday terms.

**Climbing equipment:** items on which children cannot stand unaided but must hold on, requiring three points of contact unless moving.

**Playing surface:** the ground or the surface from which play commences.

**Forced movement:** a movement to which a child is committed by the design of the equipment (i.e. swinging, sliding or rotating).

**Free space:** the space in which children are undergoing a movement forced by the equipment (i.e. slide chute or fireman's pole).

Falling space: a 3D space through which a child may fall from an elevated point on the equipment.

**Free height of fall:** distance from the clearly intended body support, or from a position which can easily be reached, to the impact area.

**Collective use:** use by more than one user at a time.

Ladders, stairs and ramps: means of access or egress.

**Impact Area:** the area where the child will strike the surface after undergoing a fall.

**Grip and grasp:** a specific part of the equipment which the child needs in order to support their weight will require grip, whilst a specific part the child requires for balance would require grasp.

**Obstacle:** a piece of the equipment extending into the path of movement.

Easily accessible: requiring only basic skills to access the equipment and not slowing the child sufficiently to allow time for a parent or carer to intervene.

**Cluster:** separate items designed to be grouped together (i.e. adventure trails).

**Steep play element:** a play feature steeper than 45° used to enter or leave equipment.

Adequate level of impact attenuation: properties of a surface having the necessary impact attenuation for a given free height of fall.



#### **ENTRAPMENTS**

One of the important safety principles of NZS5828 is to provide controls against users becoming unintentionally trapped in play equipment.

Entrapment is defined as any condition which impedes withdrawal of a body or a body part that has penetrated an opening.

Younger children are especially vulnerable to head entrapment. They can put their bodies into a small opening and then their head won't fit through. They don't have the reasoning ability to turn their heads to try and get unstuck. The result can be strangulation.

Playsafe inspectors use probe templates that represent child's torso, head, and neck, and check all opening and gaps on play equipment.

Our inspections evaluate many different entrapment's including foot/leg entrapment, completely bound rigid openings, such as between rungs of guardrails and barriers, completely bound flexible openings such as climbing nets and tests for possible finger pinch, crush/shear within holes, gaps as well as moving parts and connections.



#### **SURFACING - LOOSEFILL**

If your playground has a loosefill surface (i.e bark, woodchip, sand or pea-gravel) it will be checked during the audit with our exclusive Playsafe depth Probe.

As per the requirement of NZS5828 the depth of loosefill surface material should be maintained to a minimum of 300mm depth.

Our depth probe uses reasonable force to assess the depth and quality of your loosefill. Marked with 50mm increment indicators which clearly show within the report the average depth from multiple locations around the surface and subsequently show any depth discrepancy required.

> Playsafe recommends you should only source loosefill materials from pre-certified suppliers.

300mm

250mm

200mm 15

150mm

50mm

### **SURFACING - SYNTHETIC**

100mm

If your playground has any synthetic surfaces, it should be impact tested to verify head injury compliance. Playsafe recommends this test is completed as part of the Annual audit.

Falling is the most common cause of medical attention and the leading cause of serious head, neck and back injuries on playgrounds.

Approximately 70 percent of playground equipment-related injuries involve falls to the surface, this is either onto inadequate surfacing or onto hard objects. The most common injury is a longbone fracture (involving arms and legs).

By testing your playgrounds surface performance to the critical fall height requirements of the corresponding play equipment, we can identify issues or verify compliance in an electronic test report.

Playsafe's Certified Surface Impact Test provides identification and verification that your playground surface meets the head injury performance requirements of the NZS5828:2015 + EN1177.



### **INSPECTION LABEL**



Look for the Playsafe SAFETY CHECK Label on your next playground visit!



