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# Grand Piano Risk Assessment



Assessment Date: 24<sup>th</sup> May 2019

Assessor:

Keith Dalton

Manufacturer:

TNTY GROUP

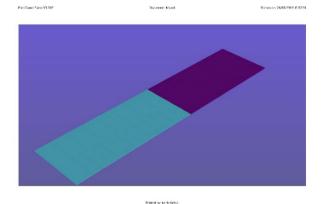
Risk Assessment: Very Low Risk

Activity: Use of musical playground equipment item

Number of Persons at Risk: Users, plus spectators

Hazards Involved with the Activity:

- Collision
- Entrapment



#### Safety Measures/Controls:

- All design requirements to comply fully with the requirements of BS EN 1176 Part 1 incorporating, where required, criteria from all sections of the standard where it is deemed applicable to the safety of this item.
- There are no falling height requirements for this type of equipment.
- The challenge (risk) associated with the use of the equipment is clearly foreseeable by the users.
- Age range: the intended age range for this item of equipment is for children of 3 years of age and above.
- A circulation Area of 1.50 metres is recommended to allow free movement for spectators around the item without moving into the space required for the safe use of the equipment.
- Correct siting of the equipment item within the playground environment to ensure free passage of playground users around the area.
- Detailed inspection and maintenance procedures to be provided for the equipment providing guidance on allowable tolerances during normal operation.

#### Risks remaining after the application of control measures:

#### Collision

With all control measures applied there will still be a risk remaining of users colliding with the equipment or with other users. It is considered that this remaining risk is of no significance, or any different from similar equipment item that incorporates this type of movement.

Given the provision of the safety measures detailed the remaining risk is considered to be  $1 \times 2 \text{ VERY}$  LOW RISK

#### **Additional Controls Required:**

None

#### **Risk Rating:**

Likelihood			Severity
1	Very Unlikely	1	Minor abrasion, light bruising
2	Not Very Likely	2	Small cuts, light sprains, more severe abrasion
3	Will happen at some time	3	Deep cuts, severe sprains etc. requiring medical intervention
4	Likely to happen	4	Injury requiring medical intervention and hospitalisation
5	Almost Certain to Happen	5	Permanent disability/death

Risk Score	Description	Action Required
1 – 5	Very Low Risk	Maintain control measures
6 - 10	Low Risk	Review control measures
11 – 15	Moderate Risk	Improve control measures
16 – 20	High Risk	Prevent access to item
21 – 25	Very High Risk	Remove from site

To establish the risk score, multiply Likelihood by Severity

#### **Controls Adequate:**

Signed: KR Dalfon

Date: 24<sup>th</sup> May 2019 TNTY GROUP Assessment Review Date: 24<sup>th</sup> May 2020





## Ground Fixed

Piano Chimes 25 Notes 1 of 3 (including surfacing) with dimensions of 3700mm x 1400mm x 370mm.

400mm

270mm

370mm

3700m

Ground Works Piano 25 Notes

1. Excavate hole below finished installation level

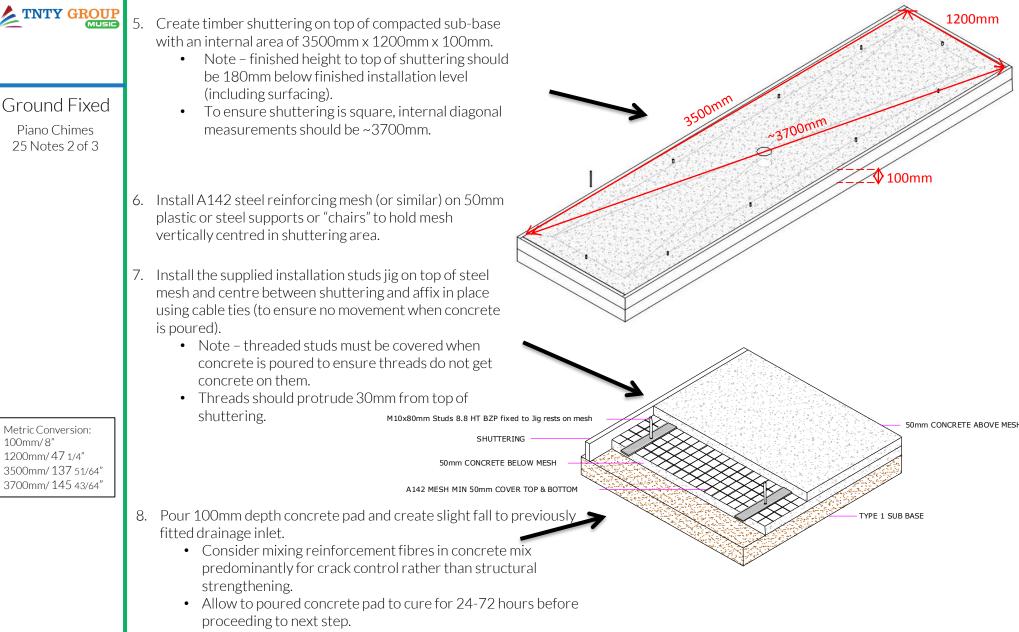
2. To prevent flooding the foundations should be connected to a rainwater drainage system such as a storm drain or soakaway.

 Install drainage inlet centrally in excavated area 170mm from finished ground level. This will allow for a slight fall in the concrete pad to encourage water run-off.

Metric Conversion: 100mm/4" 170mm/611/16" 270mm/2055/64" 370mm/149/16" 1400mm/551/8" 3700mm/14543/64" 4. Lay a level compacted 100mm granular sub-base over a geo-textile. This will help to spread the load of the concrete installation pad.

100mm 🏠 🔤

# Ground Works Piano 25 Notes



• Remove shuttering after 24-72 hours.

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	Ground Works Piano 25 Notes
TNTY GROUP	<ul> <li>9. Create timber shuttering onto concrete pad to cast concrete walls to create an internal area (after shuttering has been removed) of 3300mm x 1000mm x 170mm.</li> </ul>
	<ul> <li>Note – finished height to top of shuttering should be 10mm below finished installation</li> </ul>
Ground Fixed	level (including surfacing).
Piano Chimes 25 Notes 3 of 3	To ensure shuttering is square, external
	diagonal measurements should be ~3448mm.
	1000mm
	10. Pour concrete between shuttering to cast concrete
	walls and ensure walls are filled to top of shuttering
	and level.
	Consider mixing reinforcement fibres in concrete mix predominantly for crack control
Metric Conversion:	rather than structural strengthening.
170mm/ 6 11/16" 270mm/ 10 5/8"	Remove shuttering after 24-72 hours.
1000mm/ 39 3/8"	270mm
3300mm/ 129 59/64" 3448mm/ 135 3/4"	11. Backfill with soil or aggregate around external walls.
	12. We recommend allowing concrete to cure for a minimum of 1 week prior to installing Floor Piano.

# **Certificate of Conformity**

Issue date: 24th May 2019



## **Products covered:**

Grand Piano

The product detailed has been assessed as conforming to the main dimensional requirements of BS EN 1176:2017 based on technical drawings provided by the manufacturer

The desktop product assessments undertaken by the Play Inspection Company Ltd are not a formal certification as would be produced by an accredited test house. They are an indication of conformity based on drawings and dimensional information provided by the client.

We will check the major dimensional requirements as set out in the current standards for playground equipment (BS EN 1176 – Parts 1-6, 10 & 11 as applicable to the product assessed. These dimensions include such things as barrier heights, platform heights, free height of fall, head and neck entrapment etc. but will exclude finer detail such as finger entrapment and toggle entrapments as these cannot be fully assessed based on a drawing alone. We do not undertake any structural assessment or testing, that element remains the responsibility of the designer; nor do we assess the suitability of materials used in the construction.

**Reference Standards** 

Assessed by: Keith Dalton

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BS EN 1176:2017 Part 1

### TNTY GROUP

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