

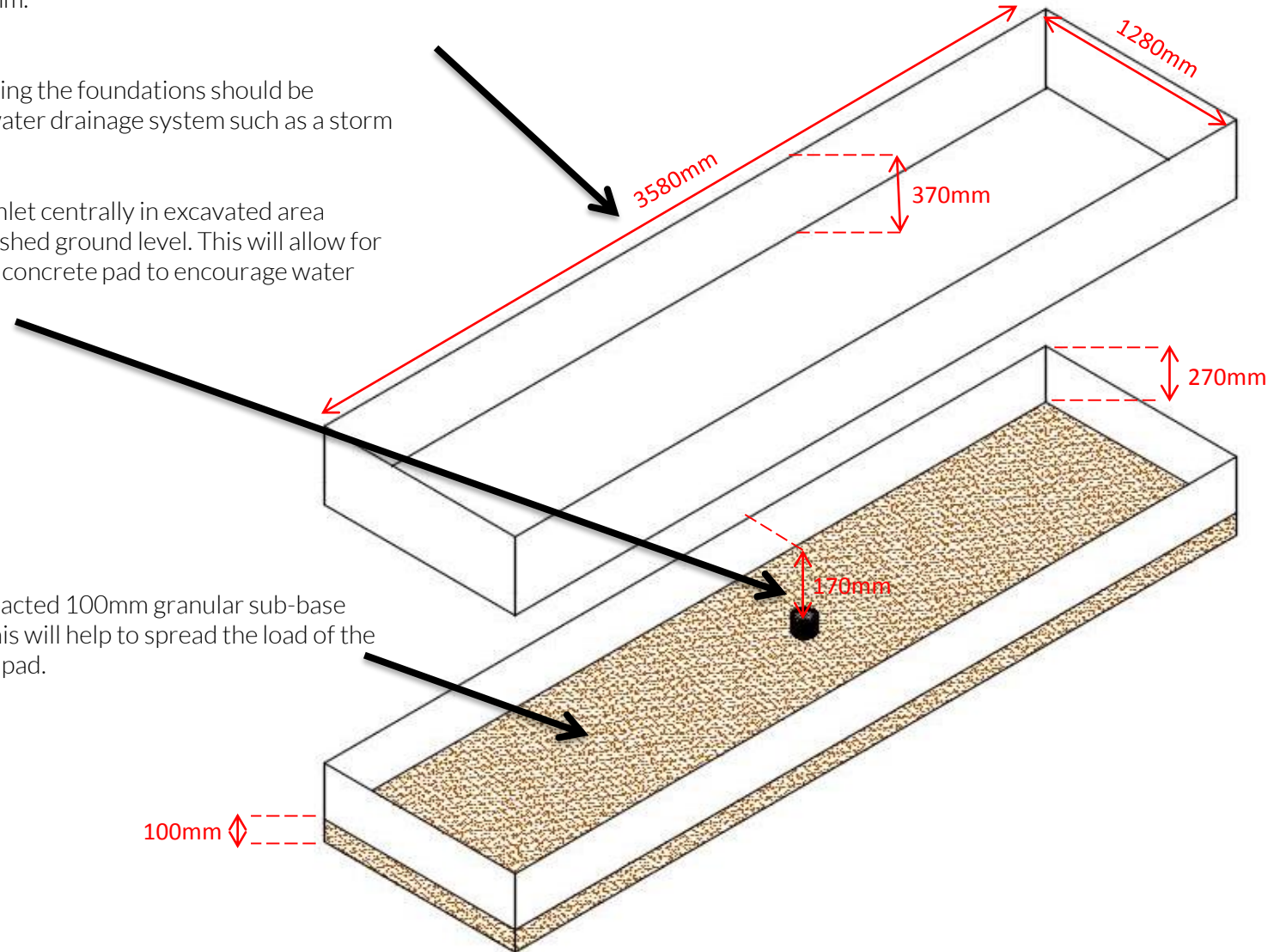
# Ground Works Piano 25 Notes

1. Excavate hole below finished installation level (including surfacing) with dimensions of 3580mm x 1280mm x 370mm.

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

3. 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.

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.



## Ground Fixed

Piano Chimes  
25 Notes 1 of 7



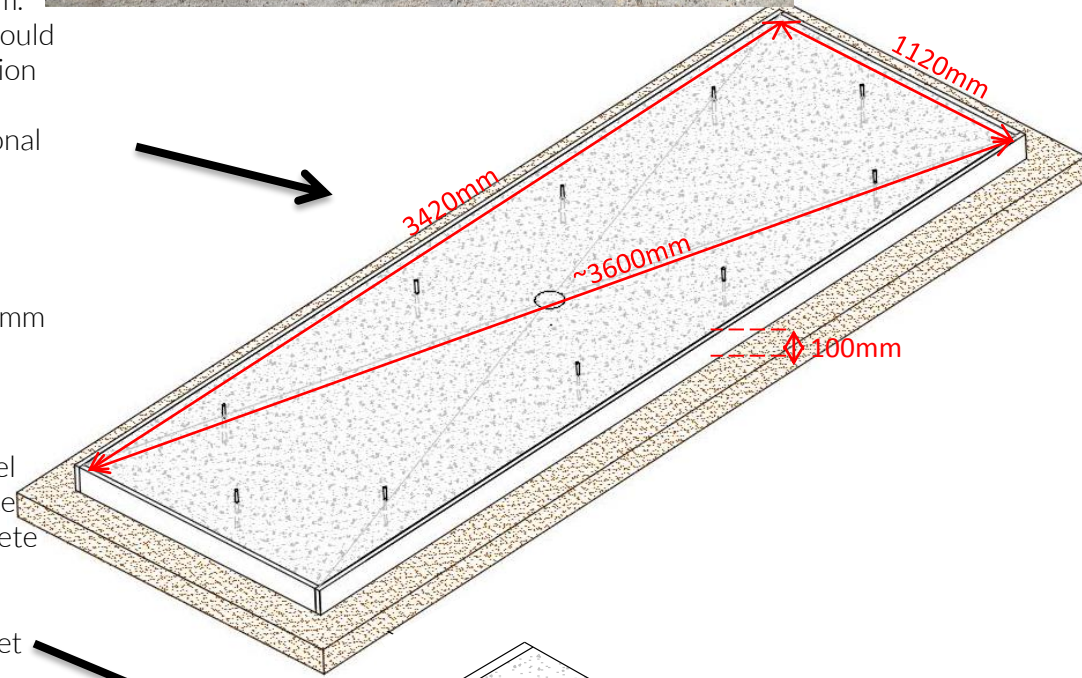
Metric Conversion:  
 100mm/ 4"  
 170mm/ 6 11/16"  
 270mm/ 20 55/64"  
 370mm/ 14 9/16"  
 1280mm/ 50 25/64"  
 3580mm/ 140 15/16"

# Ground Works Piano 25 Notes

5. Create timber shuttering on top of compacted sub-base with an internal area of 3420mm x 1120mm x 100mm.
  - Note – finished height to top of shuttering should be maximum 170mm below finished installation level (including surfacing).
  - To ensure shuttering is square, internal diagonal measurements should be ~3600mm.



6. Install A142 steel reinforcing mesh (or similar) on 50mm plastic or steel supports or “chairs” to hold mesh vertically centred in shuttering area.
7. Install the supplied installation studs jig on top of steel mesh and centre between shuttering and affix in place using cable ties (to ensure no movement when concrete is poured).
  - Note – threaded studs must be covered when concrete is poured to ensure threads do not get concrete on them.
  - Threads should protrude 30mm from top of shuttering.



## Ground Fixed

Piano Chimes  
25 Notes 2 of 7



Metric Conversion:  
100mm/ 8"  
1120mm/ 44 3/32"  
3420mm/ 134 41/64"  
3600mm/ 141 47/64"



M10x80mm Studs 8.8 HT BZP fixed to Jig rests on mesh

SHUTTERING

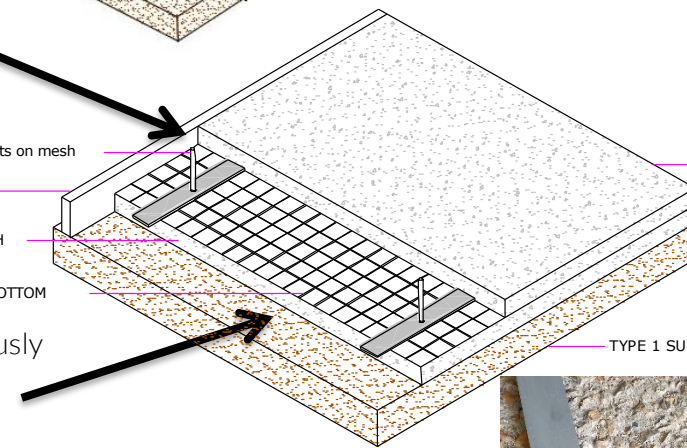
50mm CONCRETE BELOW MESH

A142 MESH MIN 50mm COVER TOP & BOTTOM

50mm CONCRETE ABOVE MESH

TYPE 1 SUB BASE

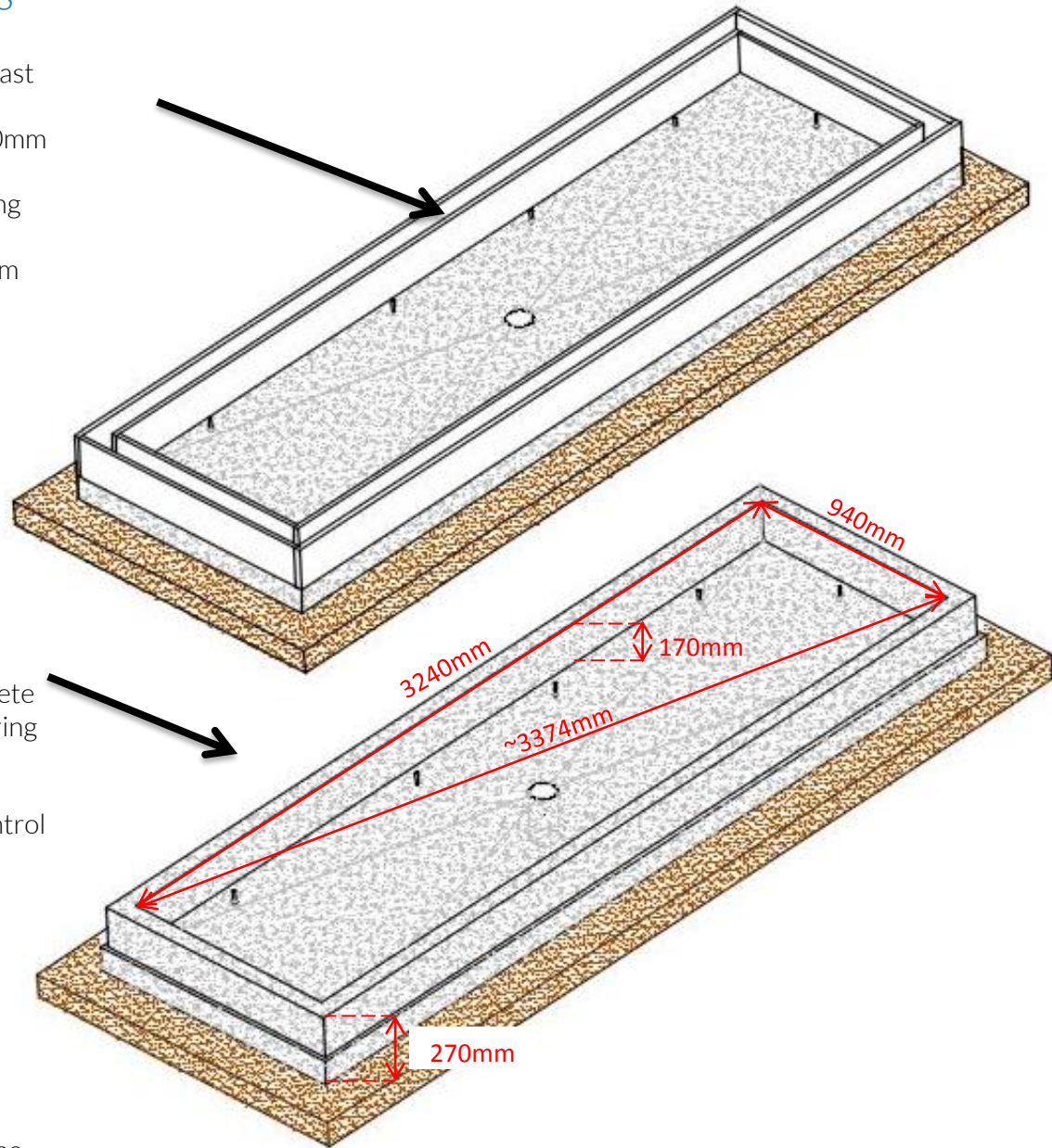
8. Pour 100mm depth concrete pad and create slight fall to previously fitted drainage inlet.
  - Consider mixing reinforcement fibres in concrete mix predominantly for crack control rather than structural strengthening.
  - Allow to poured concrete pad to cure for 24-72 hours before proceeding to next step.
  - Remove shuttering after 24-72 hours.



# Ground Works Piano 25 Notes

9. Create timber shuttering onto concrete pad to cast concrete walls to create an internal area (after shuttering has been removed) of 3240mm x 940mm x 170mm.

- Note – finished height to top of shuttering should be as close to level of finished installation level to a tolerance +0/- 10mm (including surfacing).
- To ensure shuttering is square, external diagonal measurements should be ~3374mm.



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 rather than structural strengthening.
- Remove shuttering after 24-72 hours.

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.

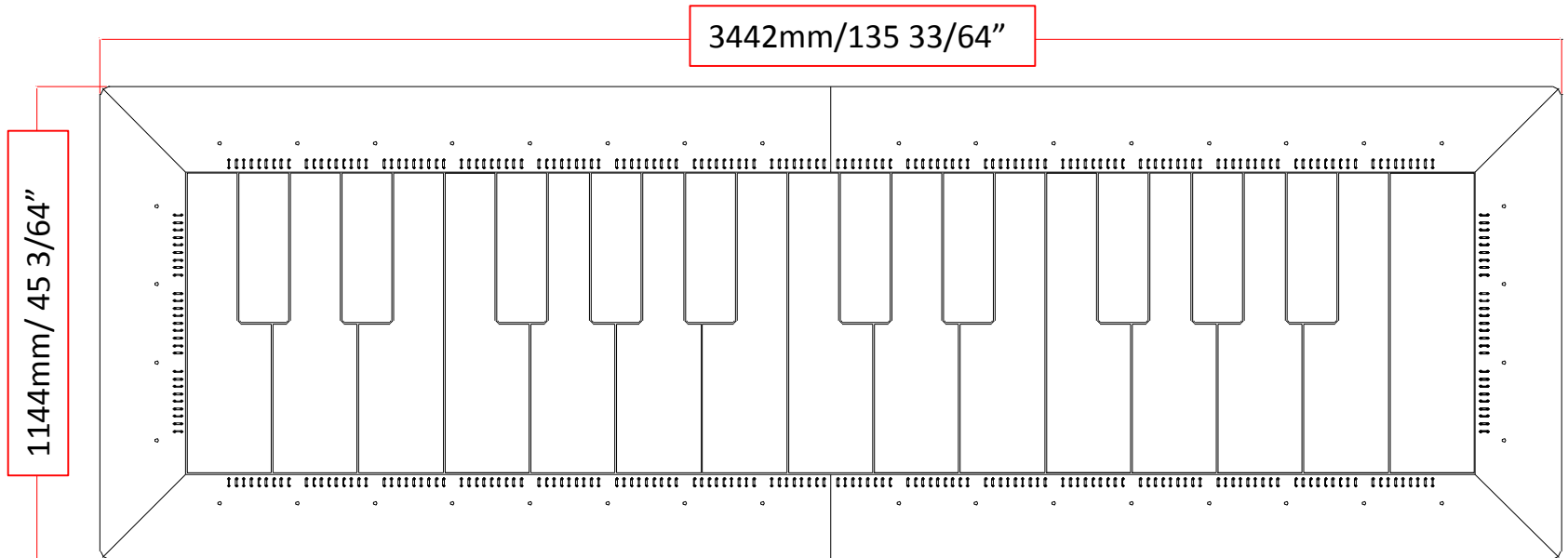
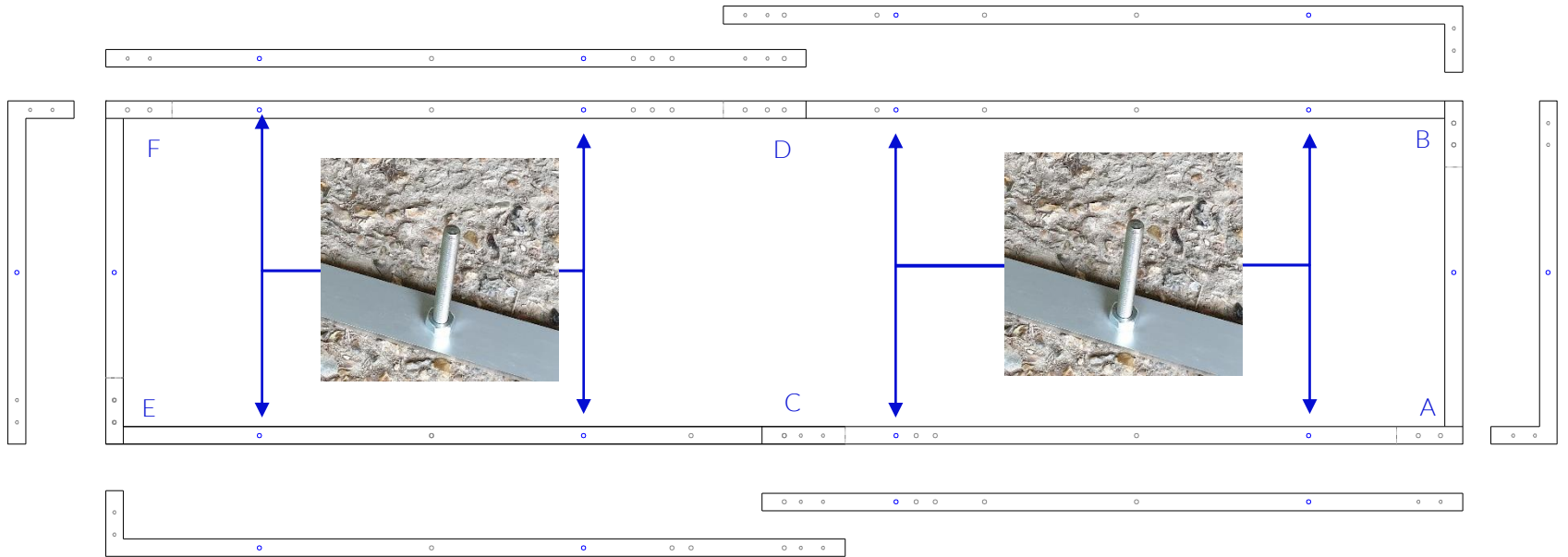
## Ground Fixed

Piano Chimes  
25 Notes 3 of 7



Metric Conversion:  
170mm/ 6 11/16"  
270mm/ 10 5/8"  
940mm/ 37 1/64"  
3240mm/ 127 9/16"  
3374mm/ 130 29/32"

**Ground Fixed**  
Piano Chimes  
25 Notes 4 of 7



3442mm/135 33/64"

1144mm/45 3/64"

25 Note Piano Plan Elevation

Metric Conversion:  
1144mm/45 3/64"  
3442mm/135 33/64"

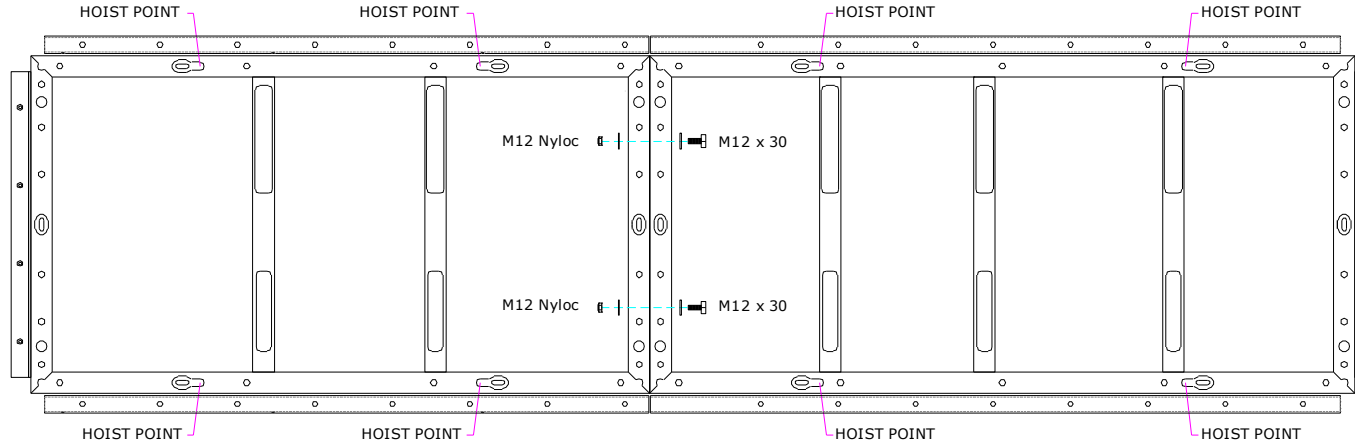
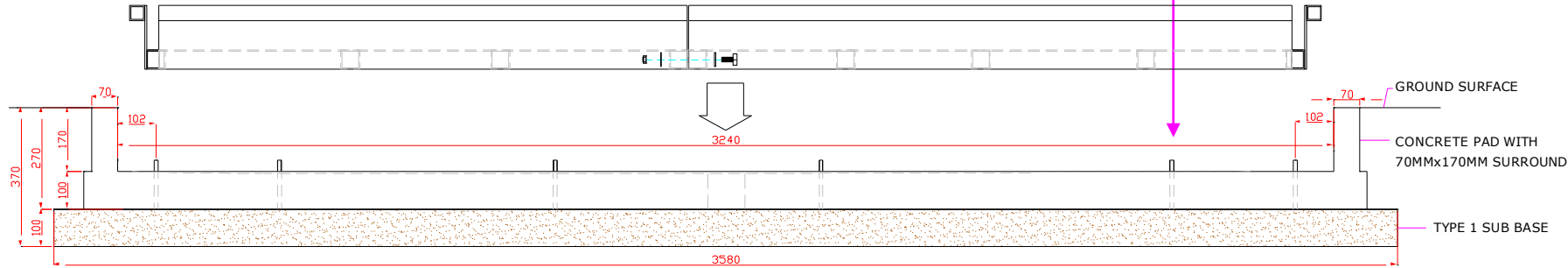
# Install Piano 25 Notes

Lower piano Sub Frame into the concrete tub, locate sub frame over protruding studding. Once located and level fix into place with M10 Nyloc Nuts and Washers through the holes in frame and base plate. Join Both Frames with M12 Bolts and Nuts



## Ground Fixed

Piano Chimes  
25 Notes 5 of 7

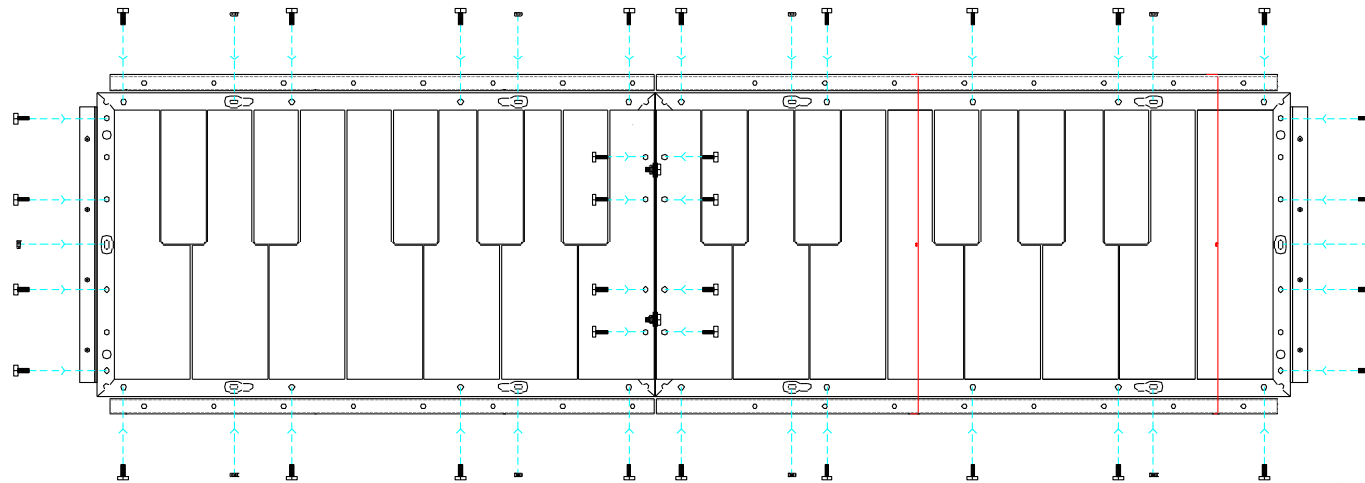
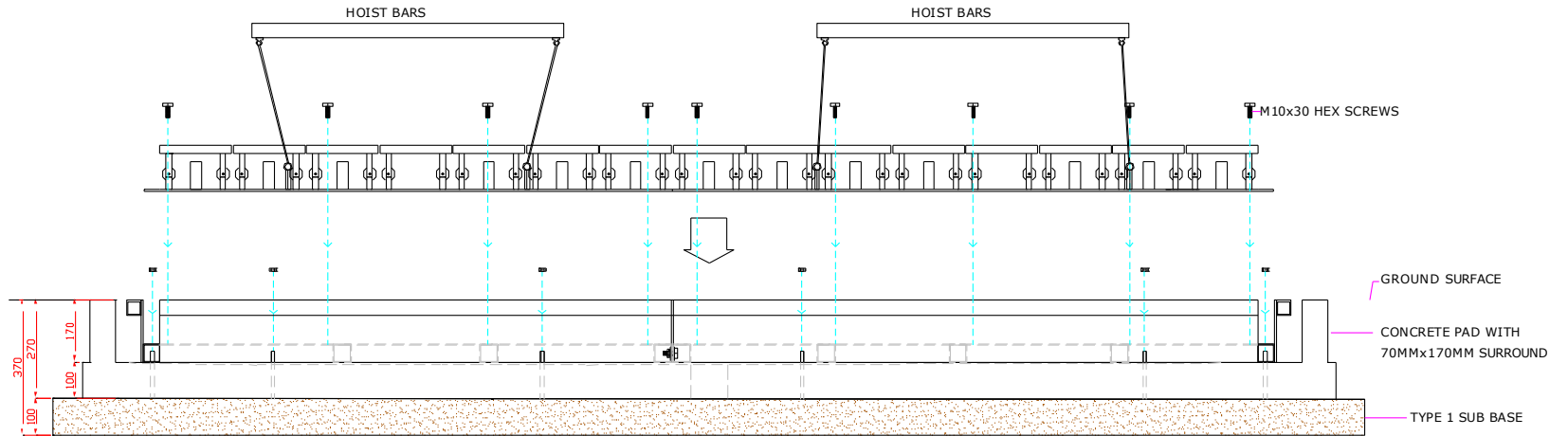


# Install Piano 25 Notes

Using hoist bars lift Piano Assembly with suitable lifting equipment onto Sub Frame. Once located onto Sub Frame fix in place with M10 x 30 Hex Bolts.

## Ground Fixed

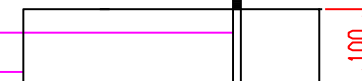
Piano Chimes  
25 Notes 6 of 7



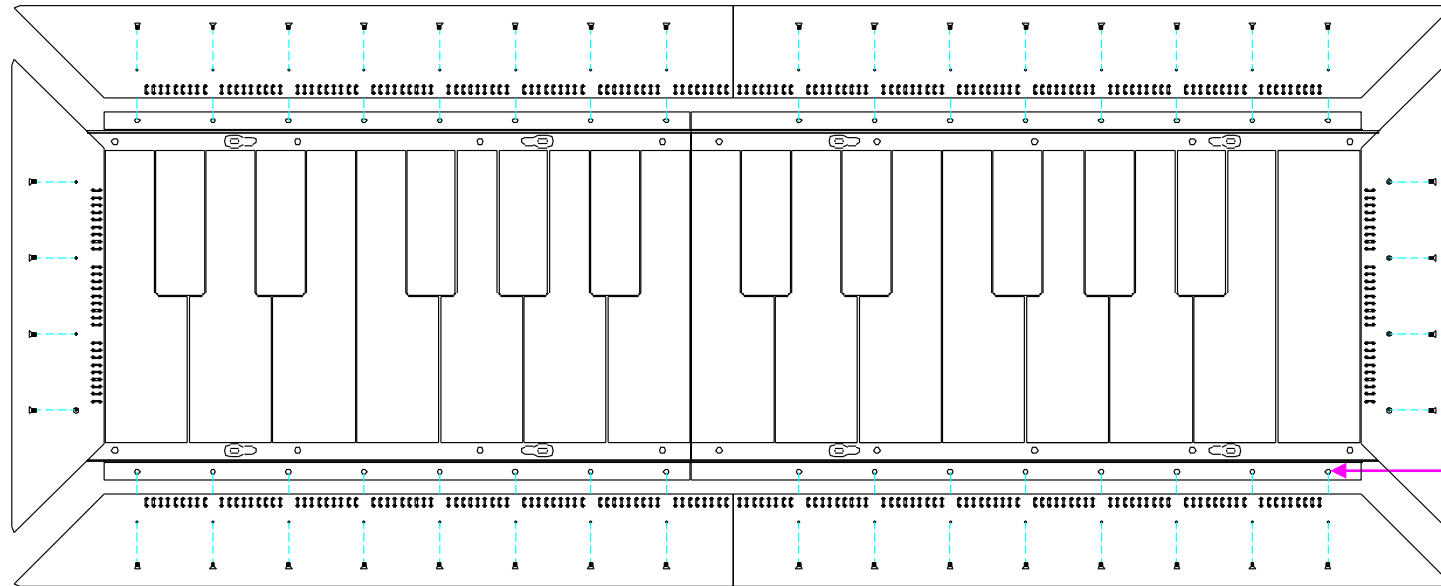
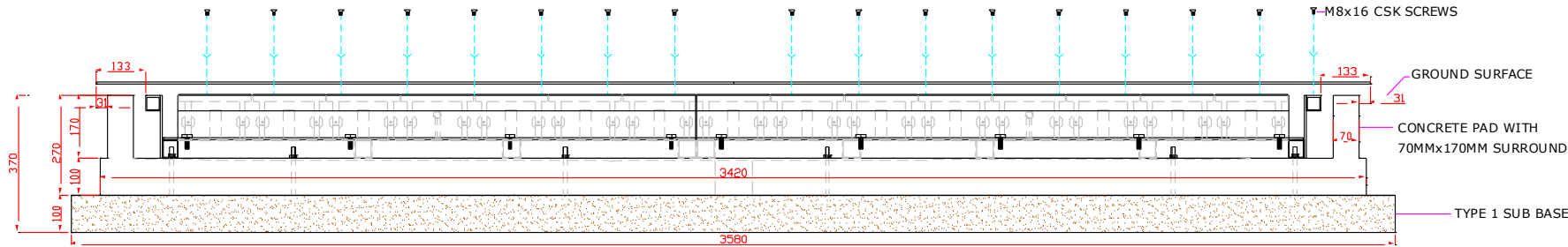
M10 Nuts to attach Piano Studs inserted into concrete base

30mm of Stud Protruding from concrete slab

M12x200mm Studs  
Concrete



# Install Piano 25 Notes



Once happy with piano installed, remove hoist bars then finally attach the checker plate surrounds with M8 x 16 CSK screws provided making sure clearance gaps are even all around the notes. **Use Square washers to adjust height of tread plate according to surface levels.**



## Ground Fixed

Piano Chimes  
 25 Notes 7 of 7

