



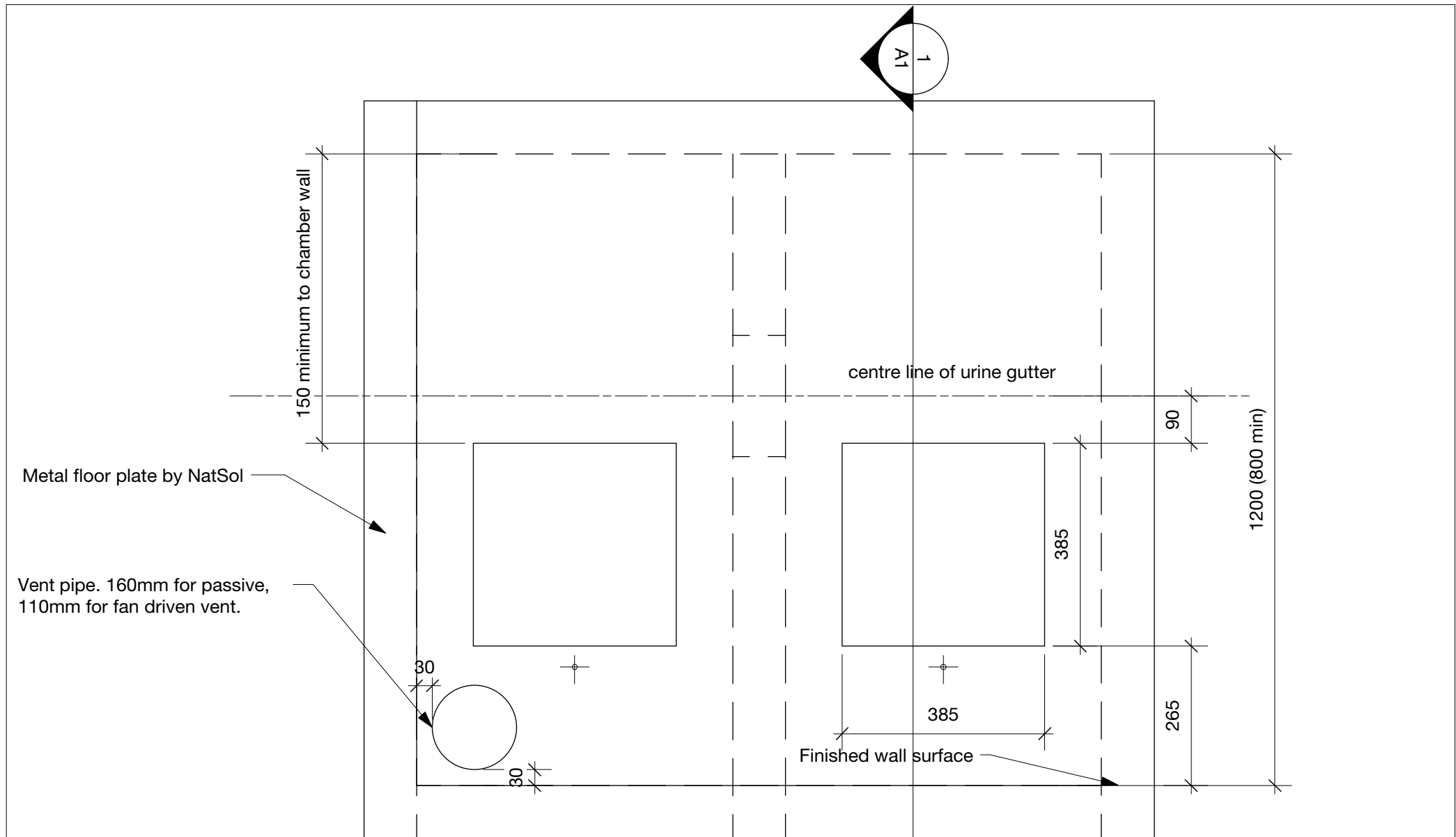
Installation guide for ABOVE GROUND compost toilet.

This is a toilet where the vaults are constructed above ground on site in accordance with our instructions. The client arranges for the construction of the vaults and building and we supply the toilet components.

GENERIC SPECIFICATION FOR TWIN VAULT ABOVE GROUND COMPOSTING TOILET

To be read in conjunction with the attached **generic** drawings, dimensions in mm:-

1. **The drawings are generalised and the precise dimensions for any particular job will have to be determined in discussion with NatSol. NatSol cannot enter into any contract to supply components until plans for the toilet have been agreed in detail.**
2. Some dimensions are shown as MAX or MIN. Dimensions without MAX or MIN must be as shown - unless we agree otherwise. [For very low use situations a smaller internal vault depth may be possible.]
3. The galvanised emptying hatches for the outside of the building can be one of two sizes with clear openings of [a] 600 x 600 **OR** [b] 600 [wide] x 450 [vertically]. Frame dimensions will be larger by about 40mm in each direction. Which hatch you use will depend on the depth of the vaults and how far the cladding of the building is to extend down the outside to cover the edge of the floor. A concrete lintel, 450 above the step, will need to be added to support the top edge of the hatch frame if fitting a 600 x 450 hatch, and there may need to be some infill above this with blocks or brick up to the floor slab. As shown on the drawings [rear view] the access aperture could be exactly covered with a 600 x 600 hatch but the top edge of the hatch might interfere with the cladding on the outside of the building. If the vaults are deeper than the minimum dimension shown then a 600 x 600 hatch is the obvious choice and will provide easier access for emptying but you will need a lintel 600 above the step below and possibly infill above it.
4. Hatches should be fitted to the blockwork using corrosion resistant screws through the plastic of the frame with a sealant behind the frame. The edge can then be rendered over..
5. **Vault volume will be determined by NatSol in discussion with you about expected levels of use.** If larger than the minimum volume of approx 0.45 m³ [which arises by use of the minimum dimensions shown] then we will help you determine the best way to achieve this by increasing some of the variable dimensions. The easiest way usually is to stretch the **MINIMUM horizontal** dimensions of 800 shown on the PLAN and END VIEW SECTION – or to make the vault deeper.
6. The construction of the vaults must be **absolutely airtight** to the outside world. Absolute airtightness means what it says. No hairline cracks! The pedestal isn't airtight but that doesn't matter as it's inside the building.
7. The ventilation duct could be 110 if fan driven or 160 if passive. We will advise on this for your situation. We can also advise on roof flashings for the vent pipe.
8. The urine collection gutter can be standard 4 inch half round rainwater gutter. One end [the high end] should terminate in an external gutter stopend which should be supported off the end wall of the vaults. The other end should sit inside a 110mm grey plastic fitting [e.g. a straight connector] which must pass through the other end wall of the vaults and lead to the soakaway. Alternatively it can be 110mm grey pipe with cutouts for the pedestal urine plate. This make the end connections easier. We can discuss the soakaway details with you. There will have to be a gully somewhere between the urine collection gutter and the soakaway so as to make the vaults airtight. Gradient of the urine gutter should be between 1 in 40 and 1 in 60. The height of the gutter shown on the plans is at the mid point where it passes through the dividing wall between the vaults.
9. In recent years we have recommended the use of a galvanised steel sheet for the floor. It might also be stainless or aluminium. We may be able to get this cut for you but the cost of carriage from our works may be prohibitive. We will discuss options for the floor with you.
10. Different buildings will have different wall thicknesses. The distance of the floor apertures from the inside surface of the wall of the building should be 265mm if a wall mounted soak box is to be fitted behind as a lid rest. Typically toilet pedestals of any sort extend about 700 from the wall behind to the front edge of the pedestal. We can discuss you wall thickness and consequent floor layout.



Metal floor plate by NatSol

Vent pipe. 160mm for passive,
110mm for fan driven vent.

centre line of urine gutter

Finished wall surface

Scale 1:10

Above Ground Vaults Generic design

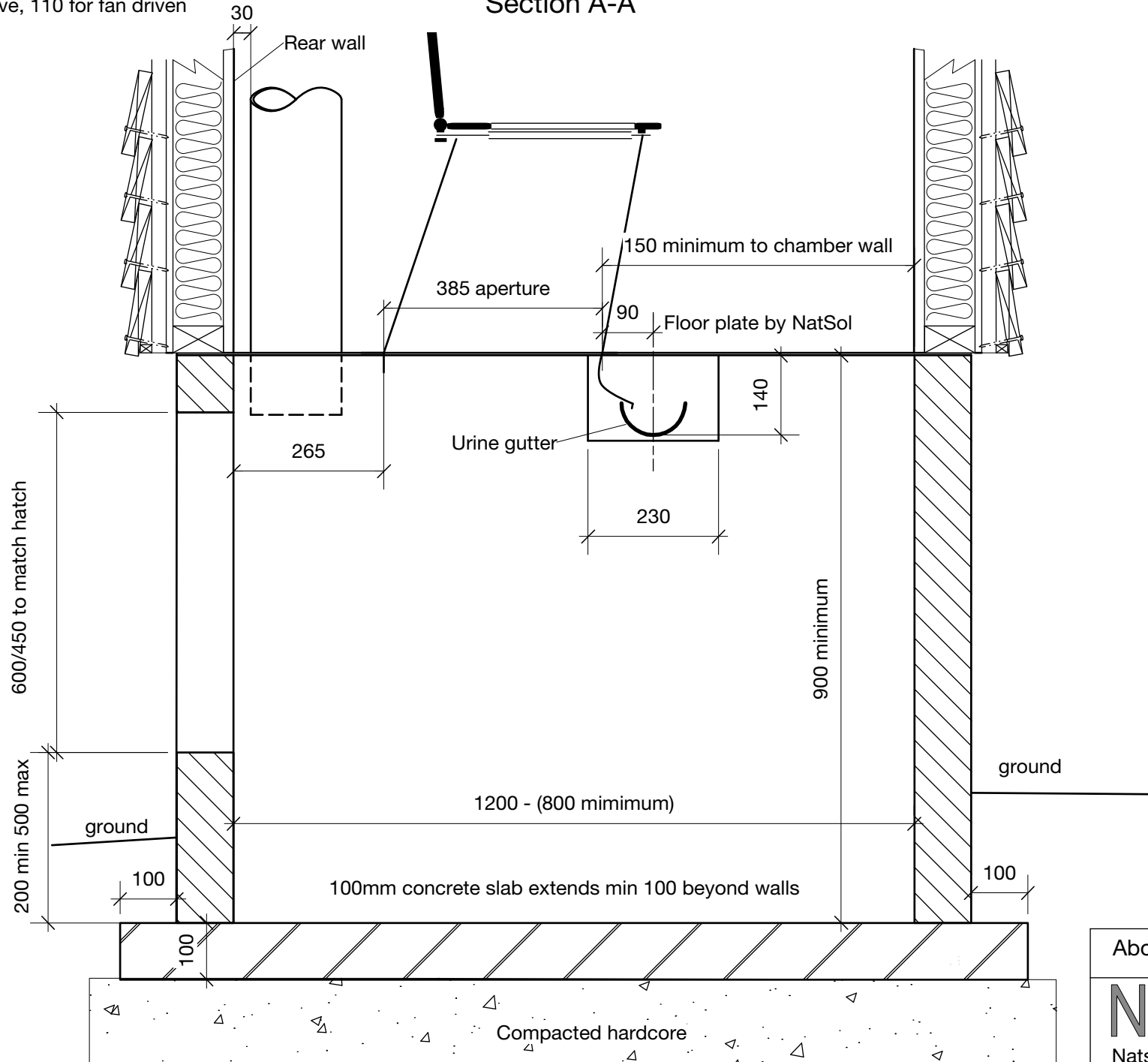
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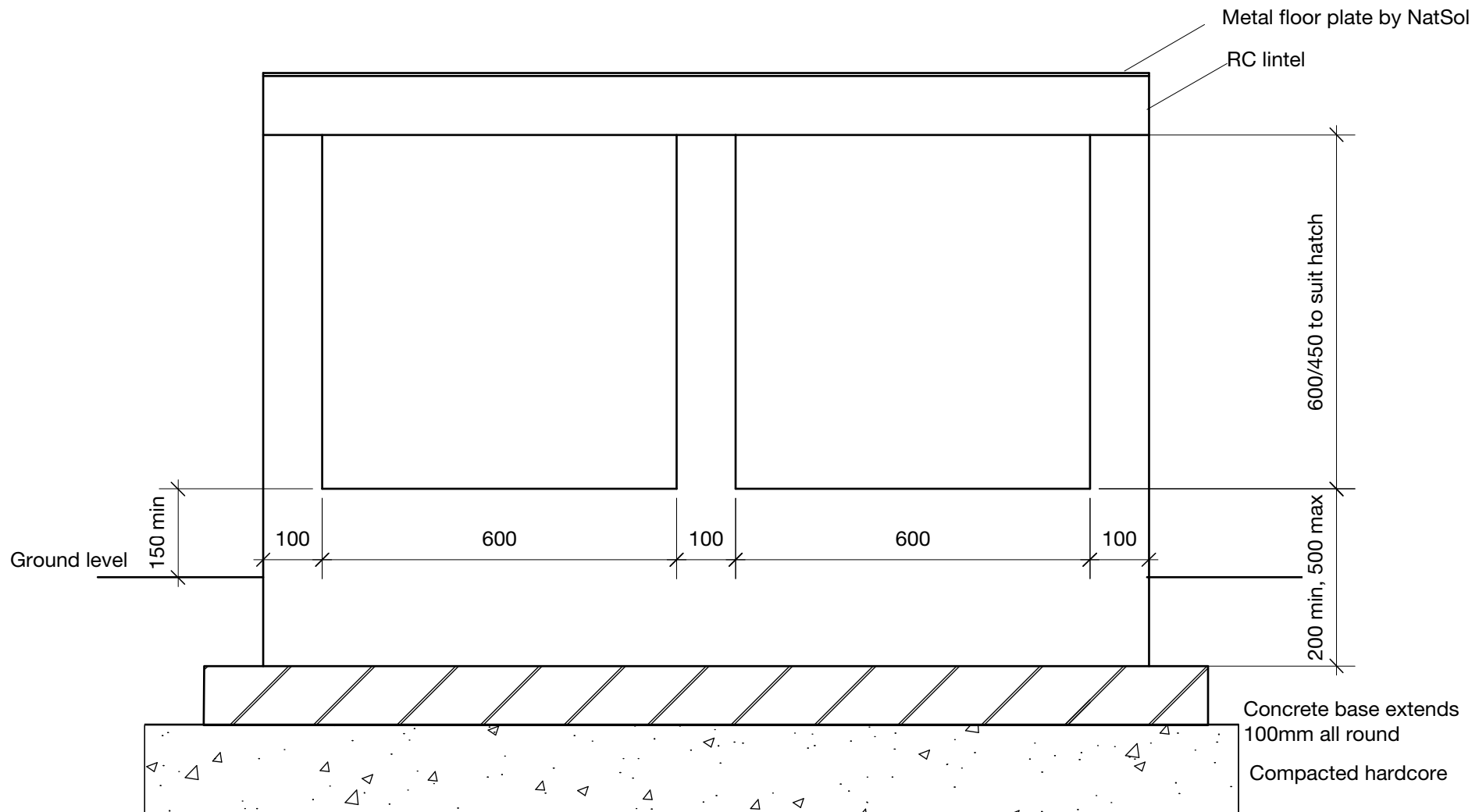
Plan view
Date: 23.09.16
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Vent pipe 160mm for passive, 110 for fan driven vent

Section A-A



Above Ground Vaults Generic design	
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Above Ground Vaults Generic design

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Rear Elevation

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