

JOB NAME: _____

If no job name is filled in these instructions are only for estimating and should not be used for installation.

NOTICE TO PURCHASERS AND INSTALLERS:

Some people consider it a matter of principle not to read instructions and prefer the heroic approach of assembling something without being told how to do it....!! **NATSOL** toilets are not difficult to install but failure to read these instructions could prove very expensive - **for you**.

We advise clients not to pay their contractors until we have received a full set of installation photos a list of which is included.

These instructions **must** be passed on in full to the person who is **actually doing the installation** at least a week in advance and they should inspect the site in advance. (This applies even if a representative of **NATSOL** is going to be on-site to supervise. You will be charged for supervision **even if**, as a result of poor preparation by your installation team, **nothing gets done**. The presence of **NATSOL** staff on site is **not** an excuse for the installation team to turn up ill equipped, ill informed, under staffed and under skilled.)

We do not guarantee our products either in terms of durability of components or correct function unless properly installed.

If you are an experienced installer of our toilets it's still worth checking through to see what's new.

Contents:-

1. Copy of our letter to client
2. Basic requirements list – tools, machinery, personnel
3. List of photos to be returned to us before contractor gets paid
4. Risk assessment for installation
5. Site and soakaway instructions including drawings
6. Vault installation including **site specific drawing**
7. Building erection and fitting out

COPY OF LETTER TO CLIENT:

Dear Client.....

INSTALLATION PROCEDURE FOR COMPUS TWIN TOILETS

NatSol does not usually carry out installation of its products. We can offer **supervision** of installation for an agreed fee should this be deemed essential. In most cases we hope to avoid supervision in order to minimise costs.

We are, of course, very concerned that installations are carried out to a high standard. To ensure this happens it is essential that you appoint a **competent builder** to carry out the work.

Installation typically requires a 4 tonne machine, or larger, to off-load the vaults from the delivery lorry, to carry out excavation and to lower the vaults into the ground. Assembly of the vaults and building requires general building skills and at least three persons on site not including anyone in a purely supervisory role.

You should choose a contractor who is familiar with all relevant **health and safety procedures** for the work involved and who will read our **installation instructions** and **risk assessment** thoroughly before the installation day. The instructions tell the contractor what tools, equipment and materials he/she must supply. **It is essential the contractor turns up, properly equipped, on the day arranged otherwise the delivery lorry will have to return to the depot with the vaults and you will have to pay for a second delivery.**

We can also assist in the following ways:-

1. In parts of the country where we know of a contractor experienced in installing our products we will make their contact details known to you.
2. We ensure that full installation instructions are sent out in advance to contractors and are available to discuss these in advance of installation.
3. With reasonable notice we are usually available by phone on the day of installation to answer any questions that may arise.

Whether or not you use a contractor to complete your installation our product guarantee is subject to us receiving a set of specified photographs as detailed on the reverse of this letter as a way of assessing the quality of installation. This is not necessary in cases where NatSol has supervised the entire installation process. We recommend that these photographs are checked by us **before you pay your contractor**. The contractor should be informed by you in advance of the intention to use photographs as a way of assessing the quality of their work.

Having said this it must be understood that the contract for the installation is between you, the client, and the contractor and that if the product is badly installed **NatSol cannot accept any responsibility whatsoever** unless it can be proven that components were missing at the time of delivery or were defective.

Please contact us if you have concerns about any issues above.

Best wishes,

Andrew Warren MD

NATSOL - COMPUS TWIN Full Access

SUMMARY OF MATERIALS, TOOLS AND PERSONNEL REQUIREMENTS –

Black items concern the vaults. Blue items concern the building erection and fitting out.

1. Materials required - NOT supplied by NATSOL:

- a. 0.5 m³ of concrete as bedding layer for vaults [C20P to BS 5328 (1:2:4 mix)]
- b. 0.5 m³ of concrete [as above] for haunching around base of vaults
- c. additional 1m³ (2 tonnes) of concrete for haunching around base if heavy clay
- d. additional soil pipe and fittings if required to reach desired soakaway site
- e. silicone grease for pipe jointing
- f. exterior finish for timber clad buildings – OS COLOR products recommended

2. General building tools & equipment including the following:

- a. safety clothing
- b. tape measure
- c. marker spray
- d. digger to excavate
- e. machinery to unload 850kg from lorry and lower 650kg into ground
- f. spades, shovels
- g. concrete mixer [could be done by hand]
- h. wheelbarrow
- i. 50mm thick screed rails – 2 @ 2.5m long with pegs fixed at each end
- j. 2m long screeding bar
- k. long spirit level
- l. mastic gun
- m. hammer
- n. saw [for cutting plastic pipe]
- o. ladder to assist with building erection
- p. large flat bit screwdriver
- q. powerful cordless drill or generator and drill
- r. socket drives for cordless or spanners
- s. drill bits for piloting timber or metal and plastic
- t. small assortment of ZP woodscrews

3. Personnel & skills required for vault installation [approx time 4 hours]:

A machine operator, banksman and 1 or 2 others qualified in general building skills particularly wet work. The vaults will need to be lifted using machinery and a “D” shackle. The slings are supplied by NatSol **but not the shackle**.

4. Personnel & skills required to erect building [approx time 4 hours]:

General qualified building skills - 4 people for erection of frames and roof, then 2 for finishing

5. Personnel & skills required to fit out [approx time 2 hours]:

General DIY or plumbing skills, 1 person is fine, 2 is useful.

Qualified electrician needed to connect fan on toilets with fan driven [as opposed to passive] ventilation systems.

NB. The construction times mentioned above [points 3,4,5] are given in good faith but NatSol Ltd cannot be held responsible for the additional cost incurred by installation times in excess of these or for any other circumstances [e.g. delay in completion of the installation] which may arise as a result of extended installation times.

NATSOL CHECKLIST OF INSTALLATION PHOTOS TO BE SENT TO NATSOL BEFORE PAYING YOUR CONTRACTOR AND IN ORDER TO OBTAIN OUR GUARANTEE

SOME OF THESE NEED TO BE TAKEN DURING THE INSTALLATION PROCESS

1. The excavation and the concrete screed levelled off.
2. The vaults in the ground but before the lid/floor section is fitted. This should show the urine gutter in position and the SIKA mastic around the rim of the vaults.
3. SIKA pointing up the gap between the lid and the base of the vaults after the lid has been fitted. It should be possible to take this picture after the building has been erected - if that helps.
4. The grey pre-assembled urine outlet in place.
5. The soakaway in position before back-filling commences. This should include the pipe connection from the vaults which must slope down [at a gradient of 1 in 60 minimum] to the soakaway.
6. One of each elevation of the building from outside including, on at least one elevation, the full height of vent pipe. Corner and roof flashings should be in place.
7. Two looking inside the cubicle showing both side walls with fixtures and fittings showing the quality and completion of fitting out.
8. One of the urinal pipework.
9. One looking down the pedestal [with flash on] so that the urine separating plate and the soak in the bottom of the vault are visible.
10. One into the active vault with the front cover removed showing the rake in place. The picture should be taken at a low enough angle that it is possible to see the bottom of the stainless steel urine separating plate over the urine collecting gutter.
11. One to confirm that the end of the urinal pipe does not block the urine gutter under the floor but stops between 60 and 100mm above the bottom of the urine gutter.



1



2



3



4



5



6a



6b



6c



6d



7a



7b



8



9



10a



10b



11

You may wish to send us additional photographs but please limit the total to 20 unless a specific problem has arisen with the installation which you need to illustrate.

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