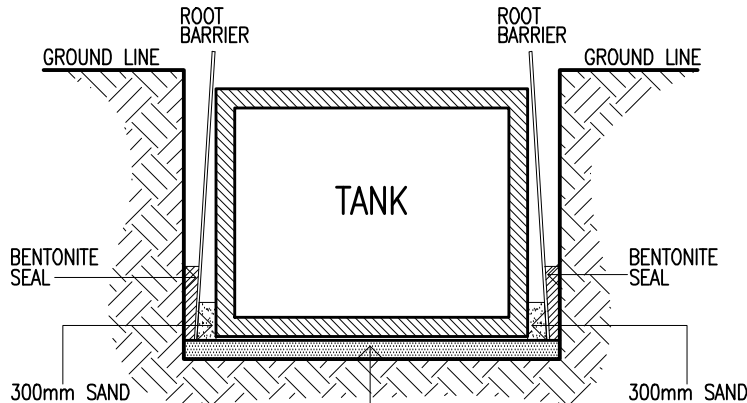


### STEP 1

SAND BASE

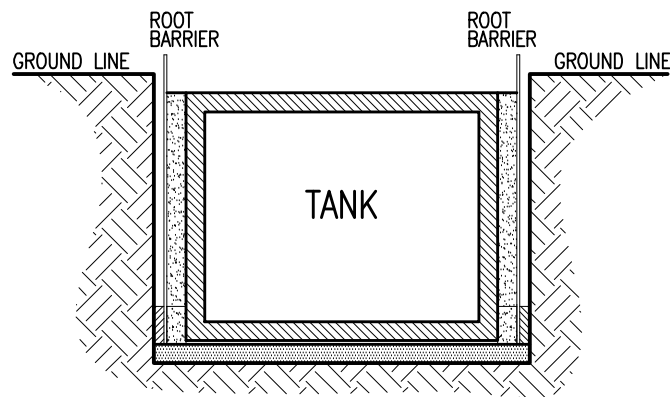
- CHECK TREE CARE GUIDELINES IF APPROPRIATE
- REMOVE ANY SHARP OBJECTS THAT MAY DAMAGE ROOT BARRIER
- CHECK DENSITY OF EMBANKMENT IS SO HARD AT SEAL POINT THAT TREE ROOTS CAN NOT GROW AROUND THE BENTONITE SEAL.
- SURROUND TANK BY INSERTING ROOT BARRIER AGAINST SIDE OF EXCAVATION, ENSURE TOP IS PROUD ABOVE GROUND.
- OVERLAP START/FINISH, INSTALL ROOT BARRIER IN ONE PIECE



### STEP 2

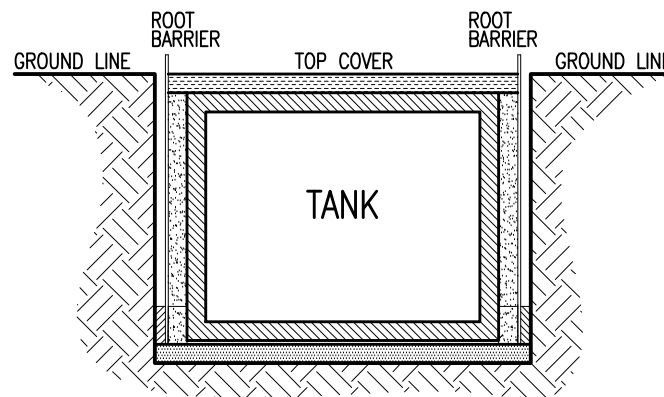
SAND BASE

- PLACE 300mm SAND BETWEEN BARRIER AND TANK
- MOVE TOP OF BARRIER ACROSS GAP TO TANK, CREATE VOID AT BASE OF BARRIER
- PLACE BENTONITE BETWEEN EMBANKMENT AND BARRIER



### STEP 3

- MOVE BARRIER BACK TO SIDE OF EMBANKMENT, ENSURE TOP IS PROUD OF GROUND.
- PLACE SPACER (20mm $\phi$ ) VERTICALLY BETWEEN LAPPED ENDS.
- FILL SIDES WITH SAND
- FILL VOID AROUND SPACER WITH BENTONITE & REMOVE SPACER



### STEP 4

- COMPLETE TOP COVER, ENSURE ROOT BARRIER IS PROUD OF GROUND
- TRIM ROOT BARRIER SO THAT TOP IS ABOVE FINISHED HEIGHT

## DESIGN & INSTALLATION GUIDELINES (INCLUDING TYPICAL)

NORMALLY PLACED BETWEEN THE TREE AND WHATEVER YOU WISH TO PROTECT. TRY **NOT** TO SURROUND THE TREE. OUR PREFERRED METHOD IS PLACING THE ROOT BARRIER ALONG BESIDE THE PATH, BUILDING, PIPE ETC SO THAT THE TREE ROOTS CAN NOT GAIN ACCESS TO THE STRUCTURE. TO STABILISE MOISTURE IN REACTIVE CLAYS UNDER THE STRUCTURE A DEEPER BARRIER IS REQUIRED.

### DEPTH

DETERMINED BY AERATION OF THE SOIL. IN "NORMAL" UNDISTURBED SOIL VERY LITTLE GROWTH OCCURS DEEPER THAN 1 METRE.

### SEAL

SODIUM BENTONITE OR OTHER ROOT GROWTH INHIBITOR IS USED TO SEAL THE BOTTOM OF THE TRENCH AND BIND THE BOTTOM OF THE ROOT BARRIER TO THE UNDISTURBED SOIL. IN SUMMARY, TAKE THE BARRIER DOWN TO SOIL THAT NOTHING CAN GROW IN AND BIND THE ROOT BARRIER TO IT.

### LENGTH

SUFFICIENT TO STOP THE ROOTS GOING AROUND THE EDGE OF THE BARRIER, NORMALLY 1 OR 2 METRES OUTSIDE THE DRIP LINE OF THE TREE.

**INSTALL ROOT BARRIER IN ONE PIECE.**

### TREE CARE

WORKING IN FROM THE DRIP LINE, (THE EDGE OF THE LEAVES) THE CLOSER YOU GET TO THE TRUNK THE HIGHER THE RISK OF DAMAGING OR DESTABILISING THE TREE. 50% OF THE DISTANCE FROM THE DRIP LINE TO THE TRUNK (20% OF THE TREES TOTAL ROOT PLATFORM) IS REGARDED AS THE CLOSEST YOU CAN CUT WITHOUT MAJOR RISK TO PLANTS HEALTH. IF IT IS NECESSARY TO CUT CLOSER THAN HALFWAY TOWARDS THE TRUNK, IT WOULD BE ADVISABLE TO ENGAGE THE SERVICES OF AN ARBORIST TO ASSESS THE TREE PRIOR TO THE WORK BEING CARRIED OUT, AND TO HELP NURSE THE TREE THROUGH THE PERIOD OF INSTALLATION

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