

# ECO-RAIN TANK INSTALLATION CHECKLIST

**\*\*\*PLEASE READ ECO-RAIN TANK SYSTEMS SUBMITTAL BEFORE START OF INSTALLATION\*\*\***

## SCOPE OF WORK/INSTALLATION CHECK LIST

<b>PROJECT NAME:</b>	<b>Inspector</b>
<b>GROUND PREPARATION</b>	
1. Excavate trench larger than Eco-Rain Tank structure, level the ground & clean the area	
2. Compact the area beneath the Tank to engineered percentage, screed the surface	
3. Remove all stones, lumps, debris and sharp objects from sub-base	
4. Place 2" clean sand on sub-base and level with screed	
<b>INDIVIDUAL TANK ASSEMBLY</b>	
5. Follow assembly instructions for specified size of Tank. Contact Manufacturer for vehicular traffic assembly specifications.	
6. Insert & space pins of Small & Large Plates evenly	
7. Check to see that all Plates are connected securely and fully; multiples connected to each other; tap with dead weight hammer using a 2X2 piece of timber to protect the plates from the hammer blow	
8. Do not use any broken Plates	
<b>INSTALLATION</b>	
9. Liner (if used) to be laid per manufacturer's instructions with underlayment if specified by designer	
10. If using liner, backfill with a 2" to 6" layer of sand inside liner if specified by designer	
11. Lay Geotextile fabric with enough fabric to fully cover Tanks with 6" overlap of seams	
12. Lay out first row of individual Tanks of the application area with Large Plates facing outside to the width required, so that the perimeter of the structure has the Tank Large Plates facing the excavation walls *Exception when using Clean Out Portal/Plates	
13. Position subsequent rows of individual Tanks perpendicular to the first row so that only the Large Plate sides of the Tanks face the outside perimeter *Except when using Clean Out Portal/Plates – use Eco-Rain 2" Drainage Cells or Large Plates with cable ties to secure to Tank sides with Small Plates showing. Contact Manufacturer for Tank positions in vehicular traffic conditions and large structures	
14. Make sure there are no gaps between installed Tanks - abut to one another as tightly as possible	
15. Position last row the same as the first row, with Large Plates facing the excavation wall, *Except at Clean Out Portal/Plates	
16. For Eco-Rain structures over 4.3' tall, follow installation pattern as shown in Eco-Rain ET-1212b drawing	
17. If any, as with Clean Out Portal/Plates, reinforce exposed Small Plates using Large Plates or Eco-Rain 2" Drainage Cells	
18. Wrap Geotextile fabric around the Tanks & secure with HDPE tape	
19. Minimum 6-inch (150 mm) overlap of Geotextile fabric	
20. Secure Geotextile fabric overlapped joints to prevent sand/fill from entering Tank during backfill operation	
21. Tops of individual Tanks must be level with no uneven plates, Tanks do not "rock"	
<b>INLET/OUTLET PIPE CONNECTION – (Connect Pipes, if any, before Backfilling)</b>	
<b>Pipes smaller than 6 inches (150mm) diameter</b>	
22. Insert pipe into the Tank by cutting a hole no larger than 6" in the Large Plate between two of the Small Plates	
23. Cut and secure Geotextile fabric around the inserted pipe with boot, ties and tape to prevent sand/fill from entering Tank	
<b>Pipes larger than 6 inches (150mm) diameter</b>	
24. Do NOT cut hole or insert pipe over 6 inches diameter into the Tank	
25. Place & secure one layer of Eco-Rain 2" Drainage Cells to Tank at pipe entry/exit point	
26. In a second layer of Eco-Rain 2" Drainage Cells, cut a hole the diameter of the pipe at entry/exit point height	
27. Place & secure the cut second layer of Eco-Rain 2" Drainage Cells against the first layer - insert pipe, abutting the side of Tanks	
28. Cut & secure Geotextile fabric to the pipe with boot, ties and HDPE tape to prevent sand/fill from entering Tank	
<b>BACKFILL - (After Pipe Connections)</b>	
29. 8-inch (200 mm) maximum height of backfill drop from tractor scoop	
30. Drop specified backfill material around the perimeter of the Tank in 8 - 12 inch (300-400 mm) depths	
32. Compact backfill per plan using compaction plate on opposite sides of the tank at the same time	
33. Place plywood sheet upright between Tank & backfill to protect Tank side, Geotextile & liner (if used) from compaction plate	
34. Compact in 8 – 12 inch (300-400 mm) lifts to top of Tank	
35. Compact sand/fill on top of Tank with low pressure tire or track vehicle, vibratory plate compactor, or low psi compactor per plan no more than 6,000 lbs.	
36. <b>Mark perimeter of Tank with caution/barricade tape to keep out heavy equipment</b>	
37. Install all remaining backfill as described above or as specified by Engineer/Landscape Architect	
38. In traffic load installations, use Eco-Rain 2" Drainage Cell layer per Manufacturer or Biaxial Geogrid placed per Geogrid Manufacturer's recommendation	
<i>NOTE: Secure the area of application with barriers/ropes during the entire scope of work. Prohibit all vehicular traffic.</i>	
<b>Eco-Rain Tank Systems of America DOES NOT accept liability for incorrect installation.</b>	