

MATERIALS

MODULAR UNITS: OPEN MESH STACKABLE CELLS (e.g. ATLANTIS MATRIX TANK MODULES OR MILK CRATES), TYPICAL SIZE OF AROUND 400 X 450 X 600mm.

FILTER FABRIC: HEAVY-DUTY, NEEDLE-PUNCHED, NON-WOVEN FILTER CLOTH MINIMUM 'BIDIM' A44 OR EQUIVALENT. MINIMUM FABRIC WIDTH OF 2.4m; HOWEVER 2m WIDE FABRIC CAN BE USED WITH CARE.

SUPPORT POSTS/STAKES: 1500mm² (MIN) HARDWOOD, 2500mm² (MIN) SOFTWOOD, OR 1.5kg/m (MIN) STEEL STAR PICKETS.

AGGREGATE: 15 TO 25mm CLEAN GRAVEL OR AGGREGATE.

FOAM: MINIMUM 50mm THICK, SOFT FOAM (INSTALLATION ON IMPERVIOUS SURFACE).

INSTALLATION

INSTALLATION WITHIN AN OFF-STREAM LOCATION:

1. REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.

2. SUITABLY CLEAR AND PREPARE THE SURFACE WHERE THE UNITS WILL BE INSTALLED.

3. UNLESS DIRECTED BY THE SITE SUPERVISOR OR THE APPROVED PLANS, EXCAVATE A 200mm WIDE BY 200mm DEEP TRENCH ALONG THE PROPOSED BARRIER, PLACING THE EXCAVATED MATERIAL ON THE UP-SLOPE SIDE OF THE TRENCH.

4. USING 2.4m WIDE FABRIC, LAY THE FABRIC ON THE GROUND WITH 200mm OF THE UP-SLOPE EDGE PLACED WITH THE TRENCH.

5. USING 2m WIDE FABRIC, LAY THE FABRIC ON THE GROUND WITH THE UP-SLOPE EDGE ALIGNED 200mm DOWN-SLOPE OF THE TRENCH.

6. IF MORE THAN ONE SHEET OF FABRIC IS USED, THEN OVERLAP THE FILTER FABRIC A MINIMUM OF 600mm AT ALL JOINTS.

7. PLACE THE MODULES END TO END ON THE FABRIC WITH THE UP-SLOPE EDGE ALIGNED WITH THE DOWN-SLOPE EDGE OF THE TRENCH.

8. FOLD THE REMAINDER OF THE FILTER CLOTH OVER THE MODULAR UNITS SUCH THAT THE END OF THE FABRIC EXTENDS AT LEAST 200mm INTO THE TRENCH.

9. SECURE STAKES IMMEDIATELY UP-SLOPE AND DOWN-SLOPE OF EACH MODULAR UNIT. THE UP-SLOPE STAKE SHOULD BE USED TO BOTH SECURE THE MODULAR UNITS AND ANCHOR THE FABRIC.

10. USING EITHER A TIMBER CROSS MEMBER OR CRISSCROSSED WIRE, SECURE THE MODULAR UNITS TO THE STAKES SUCH THAT VERTICAL MOVEMENT IS PREVENTED.

11. BACKFILL THE TRENCH AND TAMP THE FILL TO FIRMLY ANCHOR THE BOTTOM OF THE FABRIC TO PREVENT WATER FROM FLOWING UNDER THE SEDIMENT BARRIER.

MAINTENANCE

1. INSPECT THE SEDIMENT BARRIER AT LEAST WEEKLY AND AFTER ANY SIGNIFICANT RAIN. MAKE NECESSARY REPAIRS IMMEDIATELY.

2. WHEN MAKING REPAIRS, ALWAYS RESTORE THE SYSTEM TO ITS ORIGINAL CONFIGURATION UNLESS AN AMENDED LAYOUT IS REQUIRED.

3. REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT DEPOSIT EXCEEDS A DEPTH OF 1/3 THE HEIGHT OF THE BARRIER.

4. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

REMOVAL

1. WHEN WORK AREA UPSTREAM OF THE MODULAR SEDIMENT BARRIER IS SUFFICIENTLY STABILISED TO RESTRAIN EROSION, THE BARRIER MUST BE REMOVED.

2. REMOVE ALL MATERIALS AND DEPOSITED SEDIMENT AND DISPOSE OF IN A MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

Drawn:

GMW

Date:

Apr-10

Modular Sediment Trap

MST-02