MATERIALS
FILTER CAGE: TWO GALVANISED WELDED MESH GATES REINFORCED WITH DIAGONAL BRACES (25mm STEEL PIPE) HELD TOGETHER, AT A DISTANCE OF A BALE WIDTH, AND WITH A FLAT METAL ANCHOR PLATE WELDED TO THE UPSTREAM BOTTOM EDGE.
FILTER CLOTH: NON-WOVEN, HEAVY-DUTY GEOTEXTILE FABRIC EQUIVALENT TO ‘BIDIM’ A34 OR STRONGER, OR NON-WOVEN GEOTEXTILE REINFORCED WITH A UV-STABILISED, POLYPROPYLENE MESH.
INTERNAL FILTER MEDIA: STRAW BALES OR 25 TO 75mm CLEAN AGGREGATE.

INSTALLATION
1. PRIOR TO COMMENCING ANY WORKS, OBTAIN ALL NECESSARY APPROVALS AND PERMITS REQUIRED TO CONDUCT THE NECESSARY WORKS INCLUDING PERMITS FOR THE DISTURBANCE OF RIPARIAN AND AQUATIC VEGETATION, AND THE CONSTRUCTION OF ALL PERMANENT OR TEMPORARY INSTREAM BARRIERS AND INSTREAM SEDIMENT CONTROL MEASURES.
2. REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
3. FULLY ASSEMBLE THE SEDIMENT FILTER CAGE INCLUDING INTERNAL FILTER MEDIUM PRIOR TO INSTALLATION.
4. LINE THE INTERNAL FLOOR AND REAR PANEL WITH A CONTINUOUS SHEET OF FILTER FABRIC. THE FABRIC SHOULD EXTEND OUTSIDE OF THE CAGE AT LEAST 1m EACH SIDE TO HELP CONTROL LEAKAGES.
5. TIGHTLY PACK STRAW BALES WITHIN THE CAGE AND SECURE WITH WIRE.
6. ENSURE CLEARING AND EXCAVATION OF ACCESS PATHS AND THE WATERCOURSE ARE LIMITED TO THE MINIMUM PRACTICAL.
7. INSTALL THE CAGE USING EQUIPMENT OPERATING FROM THE CHANNEL BANK.
8. ENSURE THE CAGE RESTS FIRMLY ON THE CHANNEL BED AND THE ANCHOR PLATE SEALS WELL INTO THE CHANNEL BED. WHERE NECESSARY, PROFILE THE CHANNEL’S BED AND BANKS TO ALLOW A GOOD SEAL.
9. SECURELY BRACE THE CAGE WITH TIE-ROPES, STAR PICKETS, AND/OR OTHER APPROPRIATE MEASURES.
10. APPROPRIATELY SEAL AROUND THE ENDS OF THE CAGE TO CONTROL THE MOVEMENT OF WATER. STRAW BALES MAYBE USED TO PLUG LEAKS AROUND CAGE.

FORMATION OF TEMPORARY EARTH ABUTMENTS
1. IF THERE IS FLOW WITHIN THE WATERCOURSE OR DRAINAGE CHANNEL AT THE TIME OF CONSTRUCTION OF THE EMBANKMENT, THEN INSTALL APPROPRIATE INSTREAM SEDIMENT CONTROL DEVICES AND/OR FLOW DIVERSION SYSTEMS PRIOR TO CONSTRUCTION.
2. TO THE MAXIMUM DEGREE PRACTICAL, CONSTRUCTION ACTIVITIES AND EQUIPMENT SHALL NOT OPERATE WITHIN OPEN FLOWING WATERS.
3. CLEAR THE LOCATION FOR THE EMBANKMENT; CLEARING ONLY WHAT IS NEEDED TO PROVIDE ACCESS AND TO INSTALL THE EMBANKMENT.
4. REMOVE ANY CLEARED ORGANIC MATTER AND DEBRIS FROM THE CHANNEL AND DISPOSE OF IT PROPERLY. DO NOT USE ORGANIC MATTER OR DEBRIS TO BUILD THE EMBANKMENT.

MAINTENANCE
1. INSPECT THE FILTER CAGE AND ASSOCIATED EARTH EMBANKMENTS AT LEAST FOUR TIMES A DAY.
2. PLUG LEAKS, REMOVE DEBRIS FROM FRONT OF CAGE AND BROOM OFF SEDIMENT FROM FRONT OF GEOTEXTILE FABRIC TO ALLOW CONTINUED FLOW.
3. INSPECT FOR LEAKS AROUND THE ENDS OF THE CAGE.

REMOVAL
1. THE SEDIMENT FILTER CAGE AND ANY ASSOCIATED EMBANKMENT SHOULD BE REMOVED AS SOON AS POSSIBLE AFTER IT IS NO LONGER NEEDED.
2. IF EXCESSIVE SEDIMENT OR DEBRIS HAS COLLECTED UPSTREAM OF THE SEDIMENT FILTER CAGE REMOVE IT BEFORE THE EMBANKMENT AND CAGE ARE REMOVED AND DISPOSE OF SUCH MATERIAL PROPERLY.
3. IF THERE IS FLOW WITHIN THE WATERCOURSE OR DRAINAGE CHANNEL AT THE TIME OF REMOVAL OF THE STRUCTURE, THEN INSTALL APPROPRIATE INSTREAM SEDIMENT CONTROL DEVICES AND/OR FLOW DIVERSION SYSTEMS PRIOR TO ITS REMOVAL.
4. REMOVE ALL MATERIALS USED TO FORM THE SEDIMENT FILTER CAGE AND ASSOCIATED EMBANKMENTS AND DISPOSE OF IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.
5. RESTORE THE WATERCOURSE CHANNEL TO ITS ORIGINAL CROSS-SECTION, AND SMOOTH AND APPROPRIATELY STABILISE AND/OR REVEGETATE ALL DISTURBED AREAS.