

ASSEMBLY:

- UNFOLD EACH GABION (THE MATTRESS UNIT AND THE LID PANEL) ON A HARD FLAT SURFACE. STRETCH IT OUT AND STAMP OUT ANY UNNECESSARY CREASES (FIGURE 1).
- 2 FOLD THE SIDE AND END PANELS AS WELL AS THE INTERNAL DIAPHRAGMS INTO THE UPRIGHT POSITION. CHECK THAT BOTH SIDE PANELS MATCH THE DIAPHRAGM HEIGHT
 (FIGURE 2). ATTACH THE DIAPHRAGMS FIRST TO THE SIDE PANELS BY LACING THE THICK SELVEDGE WIRE PROTRUDING FROM THE DIAPHRAGM CORNERS, FIRMLY OVER AND AROUND THE TOPS OF THE SIDE PANELS (FIGURE 3a). THEN PULL OUT THE ENDS OF THE HELICAL WIRE CONNECTING EACH DIAPHRAGM TO THE BOTTOM OF THE MATTRESS, AND USE THEM TO WIRE THE DIAPHRAGM ENDS TO THE SIDES (FIGURE 3b), ALL WIRING MUST BE DONE AS A CONTINUOUS LACING OPERATION, NOT WITH INDIVIDUAL TWISTS AT INTERVALS, TIGHTNESS OF THE MESH AND WIRING IS ESSENTIAL AT ALL TIMES.
- AT THE FOUR CORNERS, BEND THE PROJECTING LENGTHS OF THE END PANELS TO OVERLAP THE SIDE PANELS. ATTACH THE END PANELS FIRST TO THE SIDE PANELS BY LACING THE THICK SELVEDGE WIRE PROTRUDING FROM THE END PANEL CORNERS, FIRMLY AROUND THE TOPS OF THE SIDE PANELS. THEN LACE UP THE REST OF THE OVERLAP WITH BINDING WIRE (FIGURE 4), POKE ALL PROJECTING WIRE ENDS INWARDS IN ORDER TO PREVENT PUNCTURING AND TEARING OF THE FILTER CLOTH.

FORMING THE STRUCTURE:

- THE SURFACE ON WHICH THE GARION MATTRESSES ARE TO BE CONSTRUCTED SHALL BE PREPARED TO THE SPECIFIED SLOPE AND LEVEL AS TO PRESENT AN EVEN SURFACE. AVOID DISTURBING THE PREPARED GROUND AND SAVE TIME BY ASSEMBLING THE MATTRESS UNITS NEAR TO, BUT NOT AT THE FINAL POSITION.
- 2. PRIOR TO FILLING, SEVERAL ASSEMBLED UNITS SHOULD BE PLACED IN POSITION AND WIRED TOGETHER BY CONTINUOUS LACING AROUND ADJACENT TOP EDGE SELVEDGES WITH SINGLE LOOPS AND DOUBLE LOOPS IN TURN AT 100mm INTERVALS. THE STRONG INTER-CONNECTION OF ALL UNITS IN A GABION STRUCTURE IS AN IMPORTANT FEATURE OF THE TECHNIQUE AND IT IS THEREFORE ESSENTIAL THAT THE WIRING IS SECURE.
- ON SLOPES. THE MATTRESS SHOULD BE LAID WITH THE 2.0m DIMENSION ALONG THE SLOPE, NOT UP AND DOWN IT. WHEN THE MATTRESS IS LAID ON A SLOPE STEEPER THEN 1:1,5, IT SHOULD BE SECURED BY HARDWOOD PEGS DRIVEN INTO THE GROUND JUST BELOW THE UPPER END PANEL, AT 2,0m CENTRES (FIGURE 5).
- 4. WHERE GABION STRUCTURES WITH NON-RECTANGULAR SHAPES ARE SPECIFIED, MODIFICATION TO THE MATTRESSES ARE REQUIRED, OTHER DIMENSIONS, SHAPES, BEVELS AND MITRES SHOULD BE FORMED BY CUTING AND FOLDING THE PANELS TO THE REQUIRED ANGLES AND SIZES.
- MATTRESSES CAN BE SHORTENED BY CUTTING OFF A NUMBER OF COMPARTMENTS. THE OFF-CUT, WHICH HAS AN OPEN END, CAN BE USED IN TWO WAYS: BY WIRING IT DIRECTLY TO A WHOLE MATTRESS TO LENGTHEN IT; OR SEPARATELY AS A SHORT LENGTH TO FIT A PARTICULAR WIDTH NEEDED. IN THE LATTER CASE, THE OPEN END IS FINISHED AFTER FILLING, BY FOLDING THE SHORT SIDES AND THE TOP DOWN TO FORM A WEDGE SHAPE AND WIRING DOWN. ON SLOPES, THIS END SHOULD BE AT THE TOP (FIGURE 6).
- 4.2 MATTRESSES CAN BE CUT IN TWO WAYS TO FIT CURVES : BY DIVIDING IT DIAGONALLY TO FORM TRIANGULAR SECTIONS AND THE OPEN SIDE OF ONE SECTION BUTT-JOINED TO THE INTACT SIDE OF THE NEXT SECTION: OR WHOLE UNASSEMBLED FLAT UNITS ARE PLACED IN SEQUENCE AND OVERLAPPED TO SUIT THE CURVE. IN THE CASE OF THE LATTER, THE SIDES OF THE UNITS LAYING ON TOP ARE RAISED AND THE DIAPHRAGMS ARE CUT ALONG THE LINES OF THESE SIDES AND OULLED UPRIGHT, ASSEMBLY THE PROCEEDS AS NORMALLY

ROCK FILLING:

- FILLING CAN BE DONE UNIT BY UNIT, BUT SEVERAL UNITS SHOULD BE READY FOR FILLING AT ANY ONE TIME, PLACE THE FILL MATERIAL, BY HAND OR MECHANICALLY, IN THE COMPARTMENT, STARTING AT THE BOTTOM IF ON A SLOPE.
- 2. FILLING MATERIAL SHOULD BE HARD DURABLE STONE, IN SIZE BETWEEN 75mm AND TWO THIRDS THE THICKNESS OF THE MATTRESS. TO ACHIEVE HIGHER FLEXIBILITY OF THE MATTRESS, THE TOE PART CAN BE FILLED WITH SMALLER FILLLING MATERIAL THAN
- 3. LEVEL OFF THE FILL 25mm TO 50mm ABOVE THE TOP OF THE MESH TO ALLOW FOR SETTLEMENT SMALL MATERIAL IS BEST FOR THIS
- 4. ATTACH THE LIDS TO THE CORNERS OF THE MATTRESS BY MEANS OF THE THICK SELVEDGE WIRE PROTRUDING FROM THE LID CORNERS TO ENSURE THAT THERE IS ENOUGH MESH TO COVER THE WHOLE AREA, THEN SECURELY WIRE IT TO THE TOPS OF THE SIDES, AND AND DIAPHRAGMS, USING THE ALTERNATE SINGLE AND DOUBLE LOOPS. THE LONG SIDES SHOULD BE WIRED FIRST, FOLLOWED BY THE BOTTOM END, THE DIAPHRAGM PANELS AND FINALLY THE TOP END. WITH MORE THAN ONE MATTRESS FILLED, THE EDGES OF ADJACENT LIDS CAN BE WIRED DOWN IN THE SAME OPERATION.

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GENERAL NOTES

- THE CONTRACTOR IS TO CONFIRM ALL DIMENSIONS ON SITE AND TO REPORT ANY DISCREPENCIES TO THE ENGINEER IMMEDIATELY.
 ALL WORK IS TO BE EXECUTED IN ACCORDANCE WITH THE PROVISIONS O

- SANS 1200.

 NOTE THAT NO OTHER BURIED SERVICES ARE NICICATED ON THIS DRIG.

 DIMENSIONS ARE NOT TO BE SCALED FROM THIS DRAWING.

 THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS

 SPECIFICALLY DIRECTED OR NICICATED.

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 AURINIONAL NOTE PRINCIP OF 2P HOURS IS REQUIRED FOR ANY
- INSPECTION.
 CONTRACTOR IS TO PROVIDE A DETAILED SCHEDULE OF INFORMATION REQUIRED INDICATING ALL SUCH DATES.

LEGEND

REVISIONS RA 2021-04-14 ISSUED FOR TENDER REVISION CLIENT INFORMATION

CONSULTING ENGINEERS



PROJECT

RESIDENTIAL DEVELOPMENT KENGIES EXT. 35

DESCRIPTION

ASSEMBLY & ERECTION OF GABION MATTRESSES

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