



- (1) COMPACTED SOIL
- (2) CRUSHED STONE (GRAVEL)
- (3) LEVELING CONCRETE
- (4A) MBM HORIZONTAL WATERPROOFING BASE LAYER "NILOFLEX 15 3MM E/E"
- (4B) MBM HORIZONTAL WATERPROOFING TOP LAYER "NILOFLEX 15 4MM S/E"
- (5) RC RAFT FOUNDATION
- (6) CEMENT BASED CRYSTALLIZED WATERPROOFING
- (7) CEMENT BASED GROUT MORTAR
- (8) PROTECTION BOARD\*
- (9) DRAINAGE PIPE
- (10) WATER-SWELL TAPE
- (11) IRON REINFORCEMENT
- (12) FORE PILE (DOWELLS)
- (13A) MBM VERTICAL WATERPROOFING, BASE LAYER "NILOFLEX 15 3MM E/E" \*
- (13B) MBM VERTICAL WATERPROOFING, MAIN LAYER "NILOSTICK 1500-3 MM S/Z"
- (14) DRAINAGE BOARD
- (15) RC RAFT RETAINING WALL
- (16) DIAPHRAGM WALL
- (17) PILE

**NOTES :**

\*OPTIONAL IN CASE OF EXPECTED MECHANICAL MOVEMENT PROTECTION BOARD IS REQUIRED (NILOBOARD, NILOSTICK 1500 2MM S/E OR ALTERNATE).  
 \* MECHANICALLY FASTENED TO DRAINAGE BOARD.

( USE "SYSTEM REFERENCE" TO OBTAIN RELEVANT DETAILS FROM "STANDARD CONSTRUCTION DETAILS" SECTION )

|   |  |  |                              |
|---|--|--|------------------------------|
|  | <b>Application</b>                                   | <b>WATERPROOFING APPLICATIONS</b>  | <b>UB12-A</b>                |
|   |  | <b>UNDERGROUND STRUCTURE</b>   |                              |
|   |  | <b>DEEP FOUNDATIONS</b>  |                              |
|   |  | <b>FOUNDATION &amp; UNIFORM DIAPHRAGM WALL WITH PILE CAP DETAILED TREATMENT-TWO LAYERS</b> |                              |
| <b>System</b>   | SBS & SELF ADHESIVE MBM WATERPROOFING TANKING SYSTEM |  | REFERENCE:<br>BNTS/03/UB12-A |
| 50, Al Khalifa Al Maamoun St., Roxy, Heliopolis, Cairo - Egypt.                     |  | E-mail: MTS@bitunil.com  | DATE:                        |
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