

VERTICAL BASEMENT MASONRY AND FOUNDATION BED

COLLECTIVE DEVICE AT THE BOTTOM

Para. 1.1

Oversite concrete foundation.

Para. 1.2

Pressed gravel foundation, average thickness of 15 cm.

Para. 1.3

Separation layer in a heavy work site polyethylene sheet or in non-woven fabric felt of at least 400 g/m².

Para. 2.1

Reinforced concrete foundation slab, thickness in cm, with extrados surface drawn to a straight edge (traditional spray) or compact and regulated with cement helicopter (pump spray and fluidified cement).

Para. 2.2

Reinforced concrete foundation perimeter curb and drainage pipes \varnothing mm.

Para. 3.1

Separation and protection layer in double 500 g/m² bitumised paper felt.

Para. 3.2

Drain connection shell in expansion material (or wooden corner).

Para. 4.1

4 mm thick NB polymer modified bitumen cap sheet membrane, (reinforced with spunbound polyester non-woven fabric) torched on, in sufficient quantity and in the same direction as the basic membrane but with staggered longitudinal joints (that is, laying the canvases of the 2nd layer straddling the 1st one), completely adhering and carefully welded on the overlaps (minimum overlapping: 80 mm side and 150 mm butt - minimum actual adhesion: 60 mm side and 100 mm butt - for butt joints, a maximum overlapping of three canvases will be allowed) and in correspondence with all the perimeter details.

Para. 4.2

4 mm thick NB polymer modified bitumen cap sheet membrane, (reinforced with spunbound polyester non-woven fabric) torched on, in sufficient quantity and in the same direction as the basic membrane but with staggered longitudinal joints (that is, laying the canvases of the 2nd layer straddling the 1st one), completely adhering and carefully welded on the overlaps (minimum overlapping: 80 mm side and 150 mm butt - minimum actual adhesion: 60 mm side and 100 mm butt - for butt joints, a maximum overlapping of three canvases will be allowed) and in correspondence with all the perimeter details.

The membrane will be flapped on the inside edge of the cylinder caisson in sufficient quantity to subsequently be overlapped for approximately half the width of the inclined face of the perimeter edge; torched on, in complete adherence on the basic membrane but only for the height corresponding to the thickness of the floor slab perimeter edge and carefully welded on the side overlap (minimum overlapping: 80 mm - minimum actual adhesion: 60 mm).

Para. 5

Filtering separation layer made up of rot-proof polyester synthetic non-woven fabric, staple punched with a weight of approximately 300 g/m² and applied dry with the overlaps overlaying simply for 15 cm.

Separation layer in LDPE polyethylene film, that is 20/100 mm thick, dry applied with overlaying laps of 15 cm. The layer will lap for a height greater than the thickness of the finished flooring.

Para. 6

Reinforced concrete slab sprayed during laying + any floor covering.

Para. 7

Reinforced concrete masonry.

Para. 8

Application of **PRIMER V70** (fast drying bituminous adhesive paint) over the whole surface that is to be made waterproof, to the extent of 200 ÷ 300 g/m² and enough to ensure that the separation layer is laid properly.

Para. 9.1

Any 3 mm thick NB polymer modified bitumen underlayer membrane of the masonry flapped on the slanting face of the perimeter edge is carefully overlapped and welded onto basic membrane overlap on the slab.

Para. 9.2

Any finishing 4 mm thick waterproof membrane of the **ITER ANTIRADICE** of the masonry flapped on the slanting face of the perimeter edge is carefully overlapped and welded onto finishing membrane overlap on the slab.

Para. 10

Drained water collection volume with evacuation device made up of gravel and monogranular pebbles laid as far as the level of the upper surface of the edge and foundation slab, and drainage pipe \varnothing mm perforated only in the upper part.

Para. 11

Protection layer for waterproofing and drainage in filtering and draining geocomposite flapped on the drained water collection volume.

Para. 12

Filtering layer **DRENO 200** (polyester non-woven fabric weight of 200 g/m² in rolls) carefully stretched, starting from the side of the draining pipe opposite the masonry, on the oversite and the side of the collection volume until it completely overlaps the protection layer and geocomposite drainage.

Para. 13

Backfill and/or substrate of culture.

