## BETOPLUS®





- Earth retaining walls
- Boundary walls
- Slope modification
- Noise bunds



This position is not that of assembling the elements: i.e. lugsdown



### Technical features

Weight of empty element: 23 kg
Weight of full element: 50 kg
Packaging: 4.80 m<sup>2</sup> / pallet
Number of units / m<sup>2</sup>: 10
Maximum height: 2.40
Wall inclination: -22°

### Aspect rounded face, units through coloured

Manufactured from specialised concrete, monitored and controlled to ensure a high mechanical strength. The elements are interlocked without intermediate voids via a system of lugs (2 patents). The earth filling the cells cannot be eroded. The contact surfaces are concrete on concrete giving maximum guaranteed load distribution.



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# BETOPLUS®

TECHNIQUE BY NATURE

#### The allowable heights

concept®

φ	β	Maximum height	Number of rows	Substructure
35°	0°	2,40 m	12	0,30 kg/cm <sup>2</sup>
35°	20°	2,00 m	10	0,40 kg/cm <sup>2</sup>
30°	0°	1,80 m	9	0,30 kg/cm <sup>2</sup>
30°	20°	1,20 m	6	0,30 kg/cm <sup>2</sup>

 $\phi$  - angle of internal friction of ground  $\beta$  - angle of upslope If  $\beta$ =0, Horizontal surcharge consider garden load.

#### Construction

Charting the location where the work will be carried out. If there is a curve the minimum radius without cutting is 5 m. Excavate a trench to a depth of 600 mm and 800 mm wide. For 150 mm of concrete on which we insert a strip of welded steel mesh 400 mm wide before covering. Arrange the first row without infill, checking frequently at the line and plumb.

Please note the lugs are positioned with lugs downwards. The face is in the high plane, this is the contact that will receive the next row.

Fill the cell with concrete up to half of the depth and haunch on each side to a height of 100 mm. Once the concrete is completely dry, fill with soil of good quality, free from clay. At the heel of work, place a mandatory collector drain. The subsequent courses then lock into each other automatically.

The half-elements are topped with soil. The subsequent rows are fully filled with topsoil.

Backfilling the embankment will consist of drainage materials, free of clay with little fine, compacted the vibrating plate layer by 100 to 200 mm. The compaction will be made by 2 or 3 passes of the vibrating plate.





Minimum radius 5 m





Constructing a right angle with double interlock vertical and horizontal

Constructing concave or convex curves

The land on which the structure will be assembled must be verified by an Approved Geotechnical Engineer to validate the design. Our responsibility is limited to products provided. The quality of foundation soil, slope faces, backfill and the installation are the responsibility of the Employer or Contractor and under no circumstances BETOCONCEPT<sup>®</sup>.