



No-Fines Concrete Infill

No-fines concrete infill placed behind retaining walls shall be free-draining, allowing water to pass readily through it to the drainage system. In its unhardened state, no-fines concrete shall have low slump and shall not exert a lateral pressure in excess 4 kPa per metre depth on the retaining wall facing restraining it. No-fines concrete used to provide enhanced stability to a retaining wall shall have a bulk density not less than 1800 kg./m³. No-fines concrete shall form a coherent mass, capable of adhering to the retaining wall facing.

No-fines concrete meeting the following specification is deemed satisfactory for this application.

- Aggregate to GP cement ratio shall be not greater than 6 : 1 (by volume).
- Aggregate shall be GP (poorly graded) nominal 20 mm crushed rock aggregate (with all particles in the range 12 mm to 20 mm).
- Compressive strength shall be not less than 10 MPa.

Construction Notes

1-Blocks should be backfilled with no-fines concrete every 2 courses (400mm) high, blocks should be filled first prior to backfilling behind the wall to reduce pressure.

2-Blocks should be wetted prior to core filling to increase flow of no-fines concrete.

3-At least 25% of block wings should be removed from the rear of the blocks prior to backfilling.

Quantity of No-Fines Concrete required to core fill the following block types-

Freestone ECO Retaining Wall Blocks, 1 M3 of No-Fines concrete fills approx. 70 blocks.

Freestone Rockface Retaining Wall Blocks, 1 M3 of No-Fines concrete fills approx. 90 blocks.