

Ques
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Segmental Retaining Walls — Segmental retaining

walls consist of interlocking concrete blocks that interlock with each other. They are used to hold back a sloping face of soil to provide a solid, vertical front. Without adequate retention, slopes can cave, slump or slide. With the unique construction of segmental retaining walls, higher and steeper walls can be constructed with the ability to retain the force of lateral earth pressure created by the backfill soil.

Segmental retaining walls can be installed in a wide variety of colors, sizes, and textures. They can incorporate straight or curved lines and corners. They are ideal for not only slope support, but also for widening areas that would otherwise be unusable due to the natural slope of the land. Retaining walls are often used for grade changes and for other functional reasons such as widening driveways, walkways or creating more space in a patio outdoor area.

Ques 1 Stability Requirements — The forces act on a retaining wall. The following requirements should be compiled for the stability of retaining wall.

- ① Stabilizing Moment — The sum of vertical loads is composed of weight of backfill on the hill.