

Supporting Materials

Stability Evaluation of Layered Backfill Considering Filling Interval, Backfill Strength and Creep Behavior

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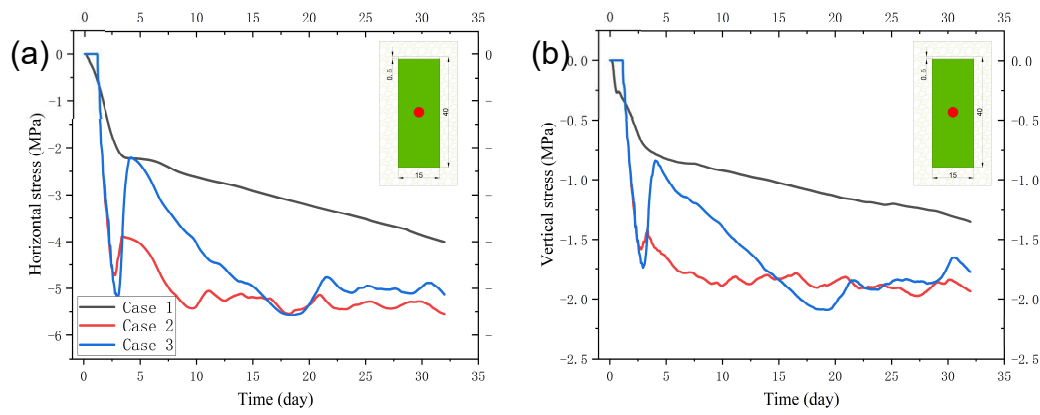


Figure S1. The influence of backfill layers on the (a) horizontal stress and (b) vertical stress on the central stope (see the red dot in S1).

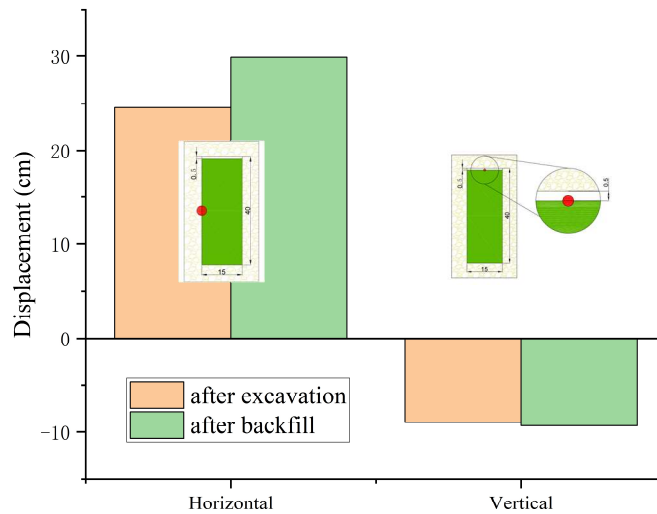


Figure S2. Difference of horizontal and vertical displacement after the excavation and backfill in MC.

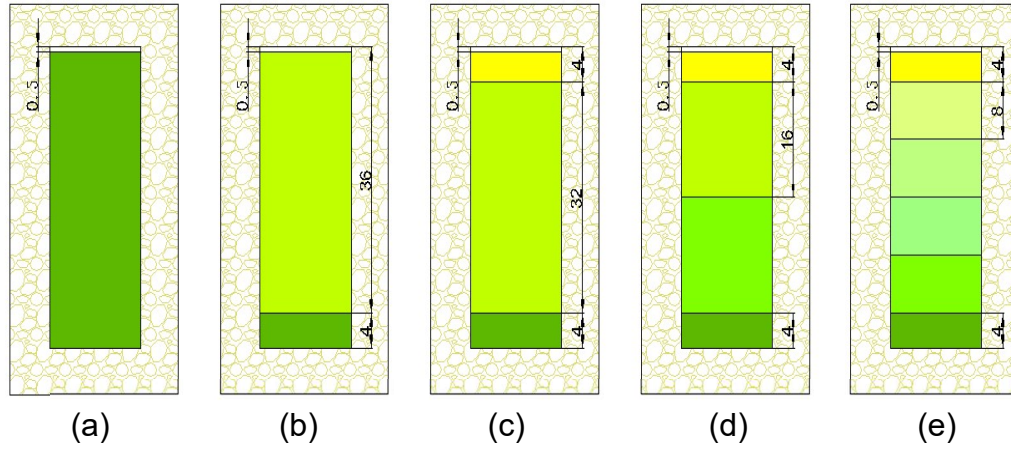


Figure S3. Different layers of cement paste backfill case: **(a)** backfill in a single step; **(b)** backfill in two steps; **(c)** backfill in three steps **(d)** backfill in four steps and **(e)** backfill in six steps.

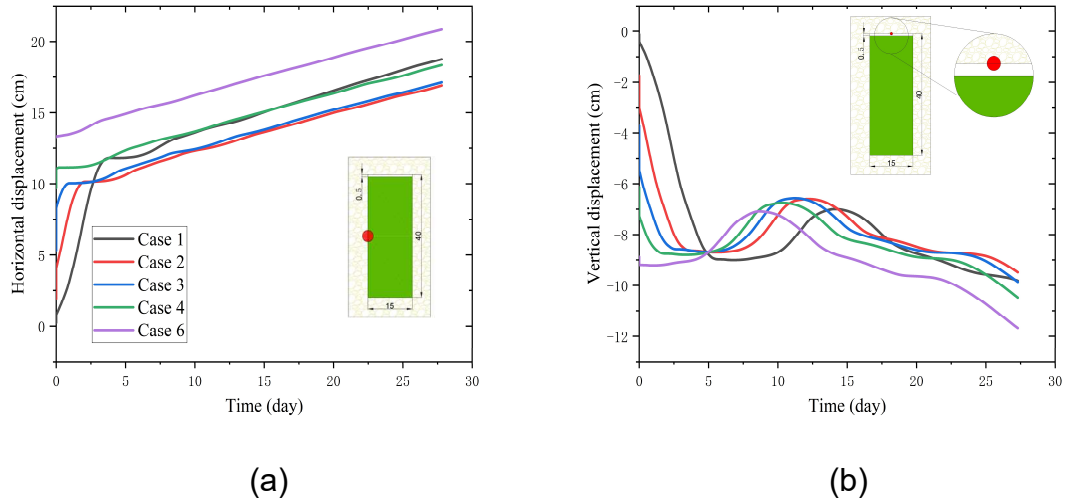


Figure S4. The influence of different backfill layers (see the S2) on the **(a)** horizontal displacement and **(b)** vertical displacement on the monitor point (see the red dot in S3). Note that time started from when the backfilling was finished and excluded the FIT.