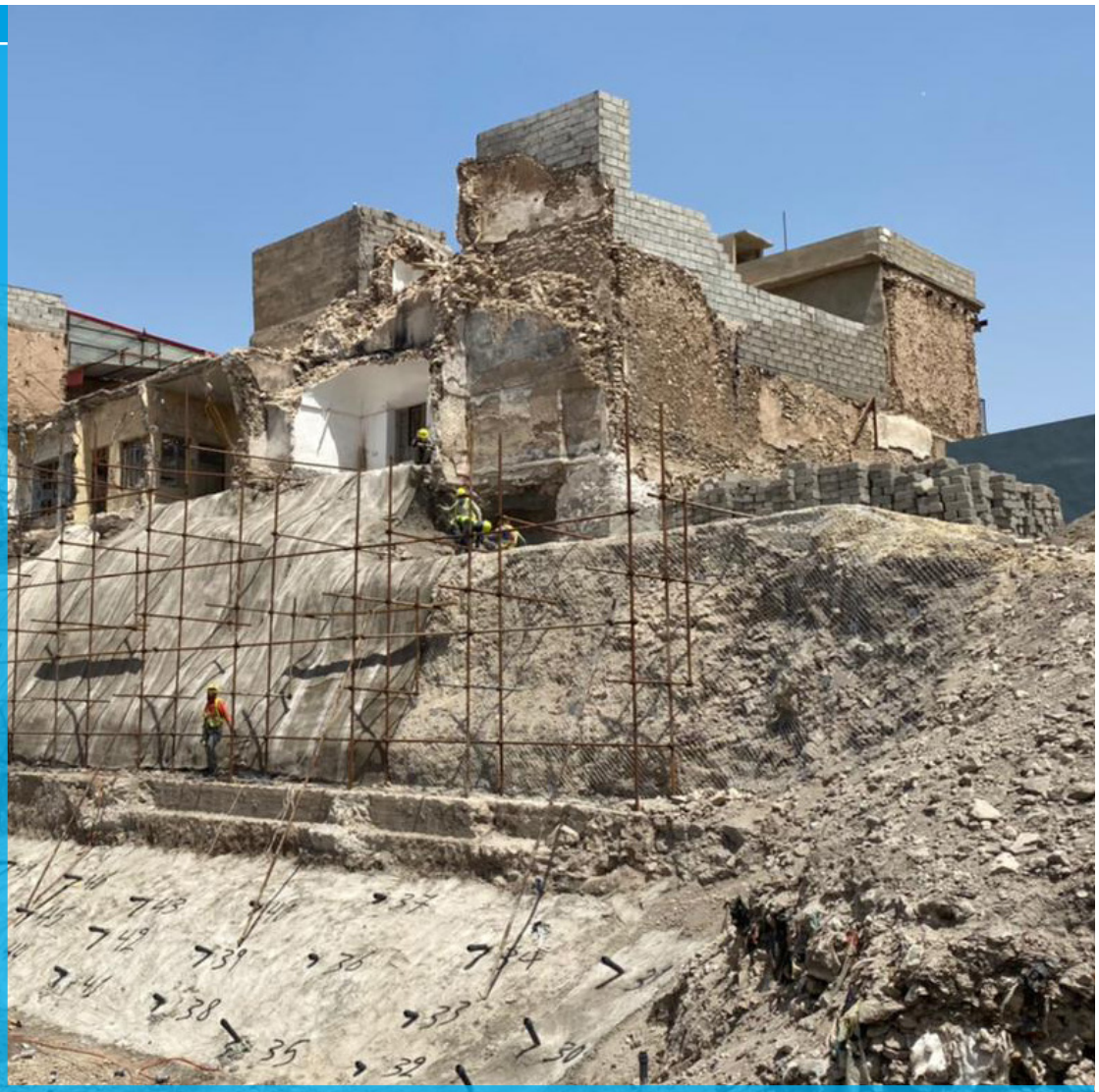
SLOPE PROTECTION

Project Info

- 30 / 04 / 21
- CC5™ Batched Rolls
- 250m²
- Vertical Layup
- Mosul, Iraq
- UN Aid
- CC was used to protect the slope from weathering and erosion



Completed installation

In April 2021, The United Nations Assistance Mission for Iraq (UN) needed a solution to protect a slope from weathering and erosion in Mosul, Iraq. The slope was irregular, meaning that the client needed a solution that could take the form of the landscape. Due to difficult access to the area, traditional methods such as concrete mixing trucks were out of the question.

Concrete Canvas® (CC) GCCM* was specified as a solution for the slope protection. CC was advised by a local contractor as a result of an CC advert on Facebook.

The works were carried out by a local contractor for UN aid to help rebuild Mosul, under the supervision of Archs.

With a large section of the buildings being demolished, the ground consisted of a mixture of soil and rubble material. To prepare the ground, the contractor removed some of the rubble and then smoothed the slope profile by installing steel mesh. The CC was laid vertically down the slope, secured at the crest in anchor trenches using 250mm steel pegs and then backfilled with site material. The CC was then hydrated using a local water supply in the area.

*Geosynthetic Cementitious Composite Mat

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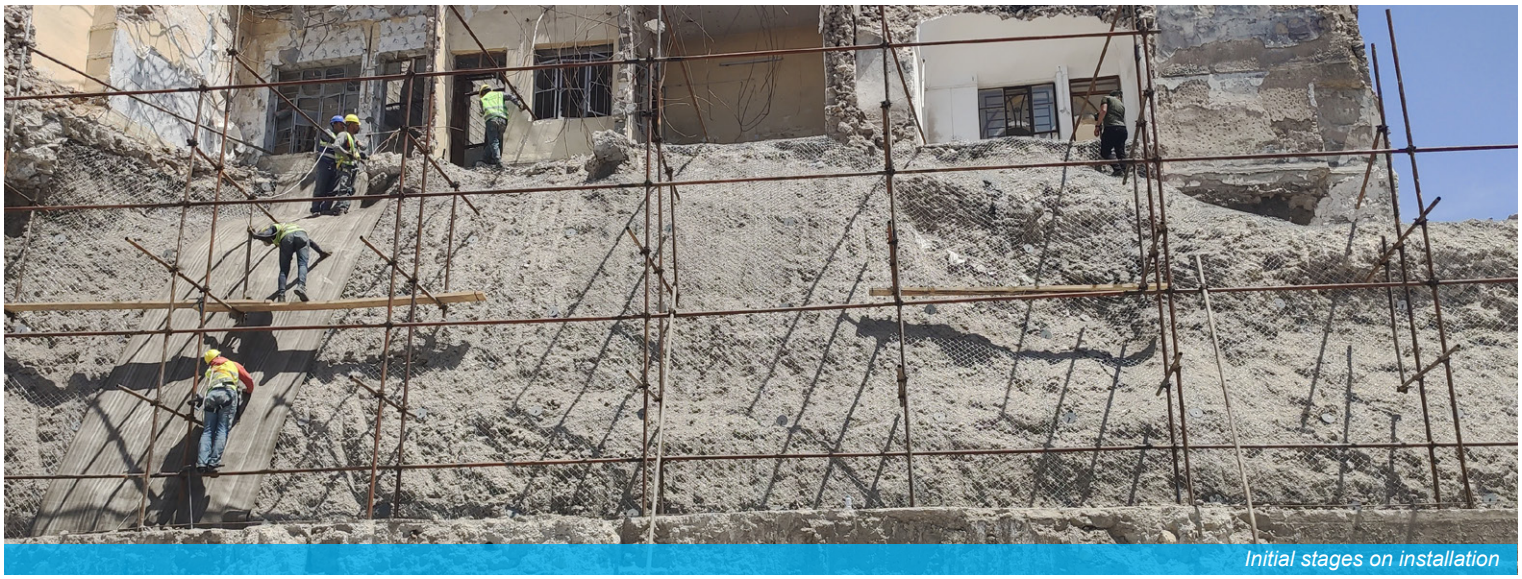
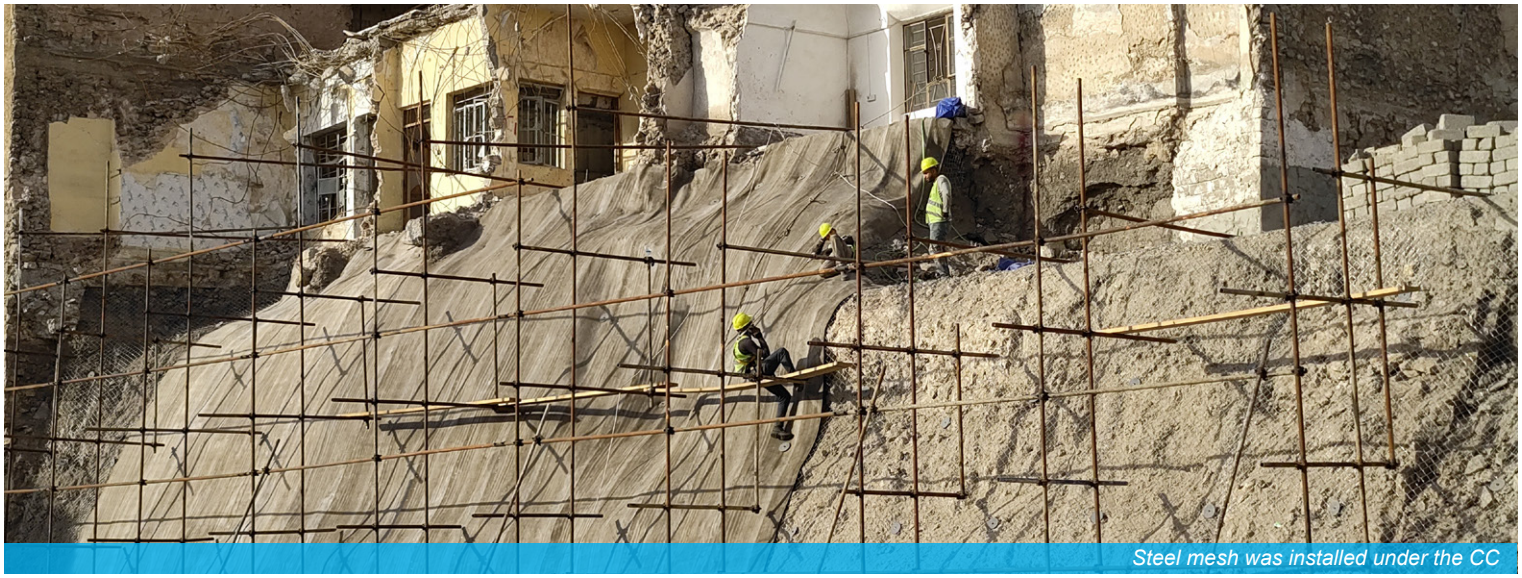
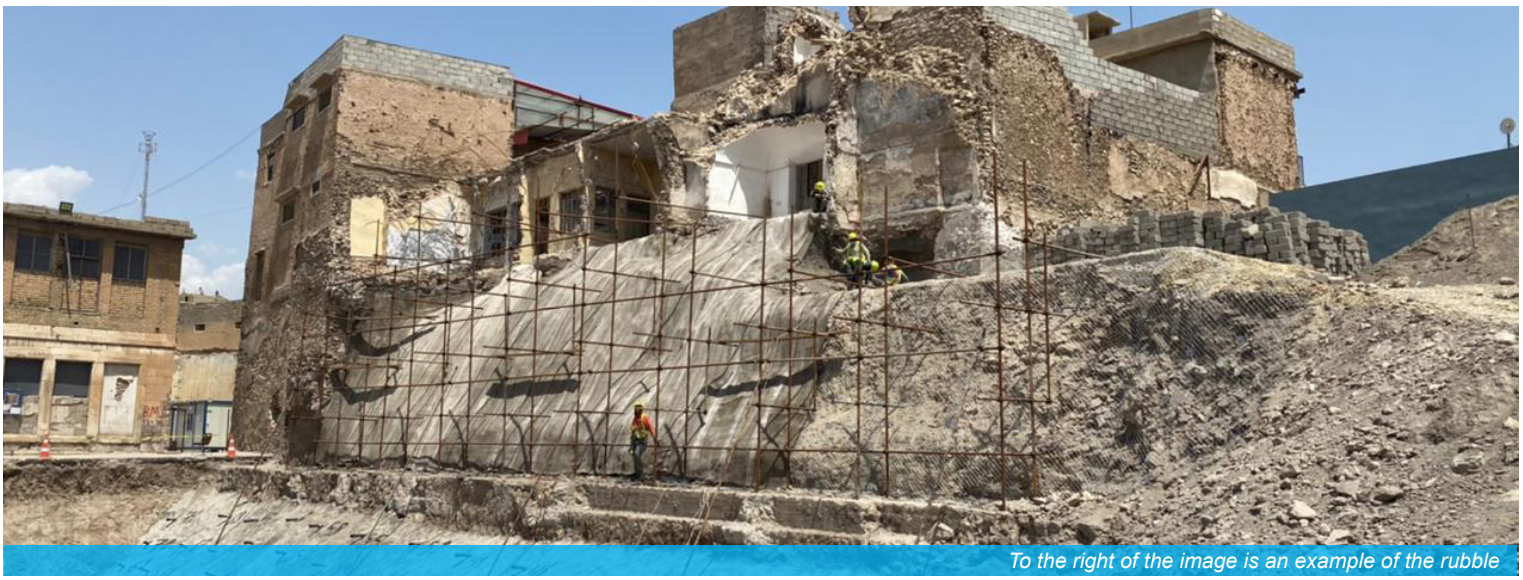


Initial stages on installation



Steel mesh was installed under the CC



To the right of the image is an example of the rubble

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Using an adhesive sealant

By using CC the UN saved time, as CC can be installed on sites with limited access, a significant advantage over traditional poured or sprayed concrete. As they used batched rolls of CC, this allowed for manual transportation onto the site rather than using mixer trucks. Another factor to the success of this project was that CC saved time, CC can be laid up to 10-times faster than conventional concrete solutions, reducing time on site and asset closures.

250m² of CC5™ were installed in 35 hours by local contractors. Despite having never installed CC before, the local contractors quickly established a sequence of works to speed up the installation and the finished CC lined slope and provided a great solution for the UN. The works were carried out in temperatures of between 37-40ºC, and in a dry Summer in Northern Iraq.

The installation was considered a success, by the local contractor and the UN. They are already planning to specify CC for projects in the future.

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