

## Project Info



2012



CC5™ Batched Rolls



Unknown



Vertical layers



Marblaegis Mine,  
Loughborough, UK



British Gypsum



CC5™ used to construct  
a number of vent walls  
at the Marblaegis Mine,  
owned by British Gypsum



*Vent walls had also been constructed using locally produced gypsum board, but these were prone to rotting*

In 2012, Concrete Canvas® GCCM\* (CC) was used to construct a number of vent walls at Marblaegis Mine, an underground gypsum mine in Loughborough, UK.

The mine's owners, British Gypsum, had encountered problems in building vent walls in the past. Constructing the walls using concrete blocks was a slow, expensive process requiring specialist labour; brattice cloth could only be used as a temporary measure due to its durability; whilst their self-produced gypsum boards were quick to install but prone to rotting. British Gypsum therefore required a durable, flexible, cost-effective alternative.

Using batched rolls of CC5™ meant that the 3-man installation team were able to carry the material to site without any plant or specialist equipment. After being cut to length on site using hand tools, the CC5™ was hung, shaped and fixed to a British Gypsum branded aluminium stud wall system and securely fastened using wooden battens, 200mm steel strips and screws. The whole structure was then hydrated using a portable water supply.

British Gypsum were very impressed with the end result. They were confident that CC would prove to be more durable than brattice cloth, whilst being less expensive and easier to mobilise and install than concrete block walls.

\*Geosynthetic Cementitious Composite Mat







Concrete block vent walls had proved expensive and difficult to install



Brattice cloth had also been used but only as a temporary measure



Frame created using British Gypsum branded aluminium stud wall system



CC cut to size, held in place and screwed to frame



Battens, 200mm steel and screws used to provide strong fixing to rock



CC hydrated using on-site equipment