

Grosvenor Mine Administration & Support Buildings

Goonyella Rd | Moranbah | QLD

CLIENT
McNab Constructions

ARCHITECT
MODE

DISCIPLINES
Structural

PROJECT COST
\$20m



Grosvenor is an underground longwall mine located in Central QLD. Construction of the five million tonne per annum coal mine began in 2012 and our team was responsible for the structural design, documentation and detailing of the administration, training and emergency buildings.

Structerre coordinated the design with the architect to optimise the structure for the cold-formed steel framing construction style. We provided the design of all steel framing including columns, beams, girder trusses, and cold-formed steel for the wall frames and roof trusses of the three buildings. The cold-formed steel framing was regarded as part of the overall building structure, which allowed a significant reduction in hot-rolled structural steel. This in turn allowed a greater degree of prefabrication of building components and quicker construction times than traditional portal frame structures. All frames and trusses arrived on site pre-assembled facilitating rapid erection and fitting.

Our team flew to the mine site three times to provide compliance construction inspections and on site advice. Strong communication with our client, coupled with our skills and experience working with cold-formed steel structures, allowed us to achieve the main brief of reducing the volume of steel across the three buildings.

 Residential  Geotechnical  Commercial & Infrastructure  Inspect & Investigate  Energy Assessment  Environmental

WA | QLD | NSW | VIC

67 Links Ave North, Eagle Farm, Queensland 4009 PO Box 621, Hamilton, QLD 4007
Phone (+617) 3307 8300 | Fax (+617) 3307 8301 | Email brisbane@structerre.com.au | Web www.structerre.com.au
ABN 99 115 038 429 Structerre WBA Pty Ltd ACN 115 038 429 trading as Structerre Consulting Engineers (QLD)

 **STRUCterre**
consulting engineers