



GRASBERG MINE,

Grasberg Mine

Grasberg Mine
Papua 98972, Indonesia

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2015

Freeport-McMoRan Inc.
Geobrugg
PT Freeport Indonesia
RPT-Indonesia

Rockfall hazard from the natural slopes above the mill area within the Grasberg mine had to be mitigated. After several incidents with boulders hitting buildings and infrastructure a fast and reliable solution had to be found.

The RXE-8000 rockfall barrier was installed across a very active gully on the east side of the mill area. Several rockfall incidents with boulders up to 2 meters in diameter had affected the mill infrastructure before. To ensure safe operation of the mill area below the gully, the barrier was installed approximately 140 meters above office buildings and ore processing facilities.

Mine / Quarry

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Galvanized, GEOBRUGG SUPERCOATING

8000 kj

9.0 m

50 m - 50 m



RXE-8000 rockfall barrier protecting mill facility in the background



Installation works in progress - visible special combined posts allowing helicopter transport



Slope morphology required reliable protection against 8000 kJ rockfalls and a height of 9 meters



Finally, a 50 meters long rockfall protection was installed



Overview of the Grasber Mine mill area



Drilling works required good preparation and special equipment suspended on ropes



Because of the size and helicopter transportation limits, posts were delivered in pieces, being screwed together directly on site



RXE-8000 middle post pieces being transported by the helicopter - visible project specific screw flanges



9 meters high RXE-8000 rockfall barrier installed across a natural gully

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