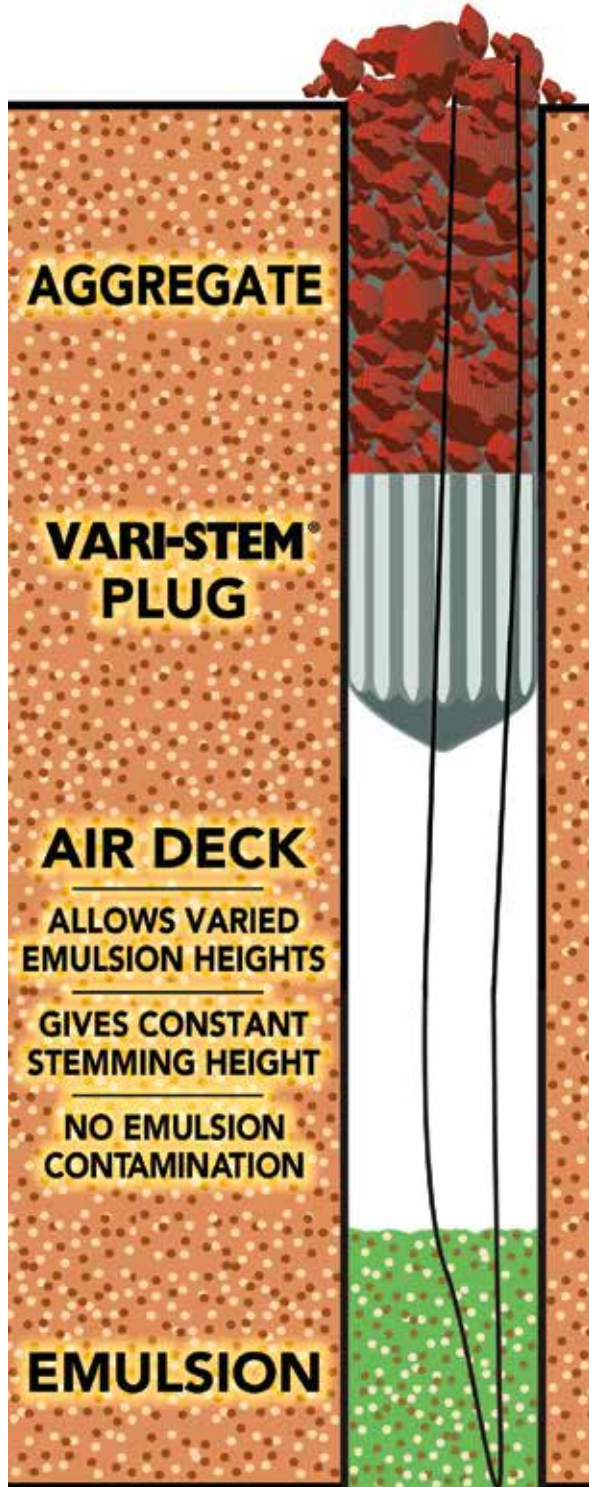


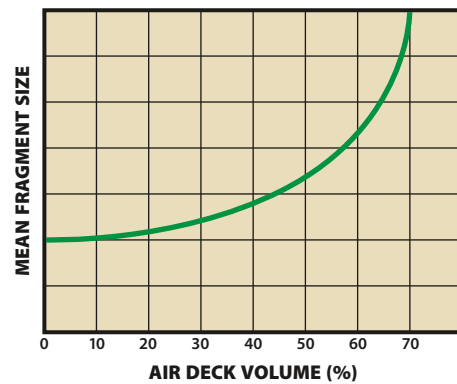
# Quarry Savings and Environmental Impact Reduction from Air Blast

*“Using the VARISTEM® has been a Double Success as we have seen Reduced Noise/Vibration Levels and a Reduction in Explosive Costs of Approximately 12%”*

-Seven Pines Quarry • Ontario, Canada



Field experience confirms that air deck of 20%-30% is possible **without noticeable loss of blast fragmentation.** (see fig. 1 below)



**Figure 1** Source: Cleeton, J. (1987)

Every meter reduction of explosives **translates directly into quarry savings.** Plus, better containment equals less secondary breakage and crusher output (see *12 Month Gold Crusher Study by University of Mines & Technology Ghana* on [www.varistem.com](http://www.varistem.com)).

Reduction of oversized fragments in stemming area with **VARISTEM®** usage and with shorter stemming heights. Explosive gases work higher without risk of stemming ejection. Better blast containment with **VARISTEM®** over using stemming rock alone (see [www.varistem.com](http://www.varistem.com) for *Study on 27% Fragmentation Improvement*).

