

BLASTABILITY INDEX ON POOR QUALITY ROCK MASS

M. CHATZIANGELOU¹ & B. CHRISTARAS²

¹Department of Civil Infrastructure Engineering, School of Technological Applications of Thessaloniki, Greece

²Department of Geology, Aristotle University of Thessaloniki, Thessaloniki, Greece

ABSTRACT

The present paper proposes a new combined classification system connecting the quality and blastability of poor and friable rock mass, heavily broken with mixture of angular and rounded rock pieces. The proposed methodology and research that result in the Blastability Quality System (BQS) are described, and three useful diagrams of the above new system aroused from our estimations. The proposed BQS is an easily and widely used tool as it is a quickly calculator for blasting and rock mass quality. Taking into account our research calculations and the parameters of BQS, we came to some conclusions for the relation of the blast ability index magnitude with the space and orientation of discontinuities.

KEYWORDS: Blastability, Blasting, Classification System, Rock Mass