

A Review of Suggested Geophone Attachment Methodologies From Commonly Referred to Monitoring Standards

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INTRODUCTION

Proper coupling of a geophone to a monitoring surface is probably the single most important step in accurately recording and measuring ground vibrations from a blast. Over the years, a number of monitoring methodologies have been published. Some of these were published as a "standard", by organizations such as the International Standards Organization, others as suggested methods by various authors in papers or text books, or in the users manuals supplied by seismograph manufacturers. These monitoring standards differ, and are sometimes apparently contradictory. The purpose of this paper is to summarize the coupling methodologies from a number of these "standards", point out similarities and differences, and discuss the technical basis behind some of the different methods.