

Eurocodes in Hard Rock Engineering in Finland

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1. Introduction

The Eurocodes are a set of European design principles, rules, and guidance intended for the design of load carrying structures. The codes have been compiled by the CEN Technical Committee 250 (CEN/TC250). The intent of the Eurocodes is to unify the design methodology. Parallel use with existing national building codes is allowed during the transition period (2007–2010) to ensure a smooth transition and enough time to make the necessary changes.

In Finland (and Sweden and Norway), there is no formal procedure on how to design rock spaces. The design is based on a designer's expertise, experience, views, and specific procedures. The problem here is that identical initial data could generate very different results depending on the way the initial data is interpreted and which design methods are used. The Eurocodes do not explicitly state how to design rock spaces, but they define the minimum requirements on how to design structures.

The Eurocodes are divided into 10 areas. Of these ten, only a part will affect how to design rock spaces. Eurocode 0 defines the main principles concerning the whole design process. Eurocode 1 defines the loads. Eurocode 2 defines the design of concrete structures (e.g. design of reinforced concrete structures, shotcrete, and grouted rebars). Eurocode 3 defines the design of steel structures (e.g. design of non-grouted bolts, steel columns, and pillars). Eurocode 7 defines the design of geotechnical structures. Eurocode 8 would define the design against earthquakes, but it is not required in Finland, unless otherwise stated.

2. Eurocodes change the design of rock spaces

Many projects already require the use of the Eurocodes. Design working life is a concept which defines an assumed period for which a structure or a part of it is to be used for its intended purpose with anticipated maintenance but without major repair being necessary. For many rock engineering projects a normal specification is 100 years while previously the design assumption has been 50 years. For practical purposes, design working life can be interpreted to mean that 95 percent of the structure must last longer than the specified time with the specified maintenance.

In the highest geotechnical class GC3 (corresponding to the highest Finnish difficulty class AA) it is no longer possible to use empirically based design only. Eurocode 7 states that prescriptive measures may be used if calculation models are not available or not necessary. Empirical methods (such as the Q-method or the RMR-method) may still be used to give a rough estimate to assess the validity of design. However, the Eurocode does allow the use of the Observational Method when prediction is difficult or impossible, but monitoring and redesign are possible. Because prediction is often difficult and monitoring is often recommended, this should be viewed more as a part of a standard design process (Ström 2009) than a stand-alone method.

The Finnish regulation for the design requirements of civil defence shelters within rock states that rock engineering calculations should be made if the span is wide or the rock conditions are difficult. This implies that empirical design methods should not be used in geotechnical class GC3. The

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