



## DUTCH PRACTICAL GUIDELINE NPR 3438 – ERGONOMICS – NOISE AT THE WORKPLACE

Determination of the amount of disturbance of communication and concentration

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### ABSTRACT

The new Dutch Practical Guideline (Nederlandse praktijkrichtlijn) NPR 3438 [1] is a revision of the Dutch pre-standard NVN 3438 from 1995 [2]. The pre-standard fulfilled a certain need especially in the field of acoustic ergonomics but was only a temporary guideline. The new practical guideline NPR 3438 has an informative character. NPR 3438 gives target values for the room acoustical environment in relation to disturbance of communication and concentration. It shows acoustic parameters and target values for communication and concentration. The purpose of this guideline is to give directions to building and housing projects and for evaluation and reviewing processes of existing working environments. On the one hand, the content of this guideline aims to provide information on preventing disturbance of communication and concentration and on the other hand to give technical information to experts. The guideline can be used in all types of workplaces like offices, schools, sports halls, hospitals, workshops and industry and applies for allowable sound levels between 35 dB(A) and 80 dB(A). It excludes specially designed rooms or rooms with a desired higher sound level like auditoriums, theatres, cinemas and discotheques. This paper presents an overview of the content of this new practical guideline.

### 1. INTRODUCTION

Acoustic standards and guidelines can be divided in two parts, each with different focus - one with focus on the building and the other on ergonomics. Although both have the human being in mind, the starting point is different. Most standards and guidelines (national and international) are directed on the acoustical quality of the building. The new Dutch practical guideline NPR 3438 has ergonomics as a starting point.

### 2. DUTCH SITUATION

The Dutch Building Decree 2003 includes technical specifications which all buildings in the Netherlands have to comply with. In the 3<sup>rd</sup> chapter "regulations with regard to health", sound insulation and sound absorption are mentioned. But like in many other countries the building regulation is not enough to secure a good working environment. The Ministry of Housing, Spatial Planning and the Environment (VROM), who issues the building decree, addresses inhabitants, social organizations and companies concerning their own responsibilities. The ministry removes superfluous rules. Rules, according to their philosophy, should only be there where they are really necessary.

Regulations with regard to occupational health only deal with dangerous sound levels above 80 dB and not with disturbing sound between 35 dB and 80 dB.

This means that guidelines and standards become more important and they can be the input for the program of demands for a certain building. Only a carefully considered program of demands guarantees the wanted acoustical situation. Acousticians also play an important role in determining the right acoustical values for the different purposes.

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