

# „Technical assistance for Reforming the Construction Development Legislation Framework“

Hygiene, health and environment

# Hygiene, health and environment

## Recognition

- technical requirements are scattered over many technical regulations/laws
- they are accumulated over the last decades.
- the same problem applies to the related permitting and building control procedures

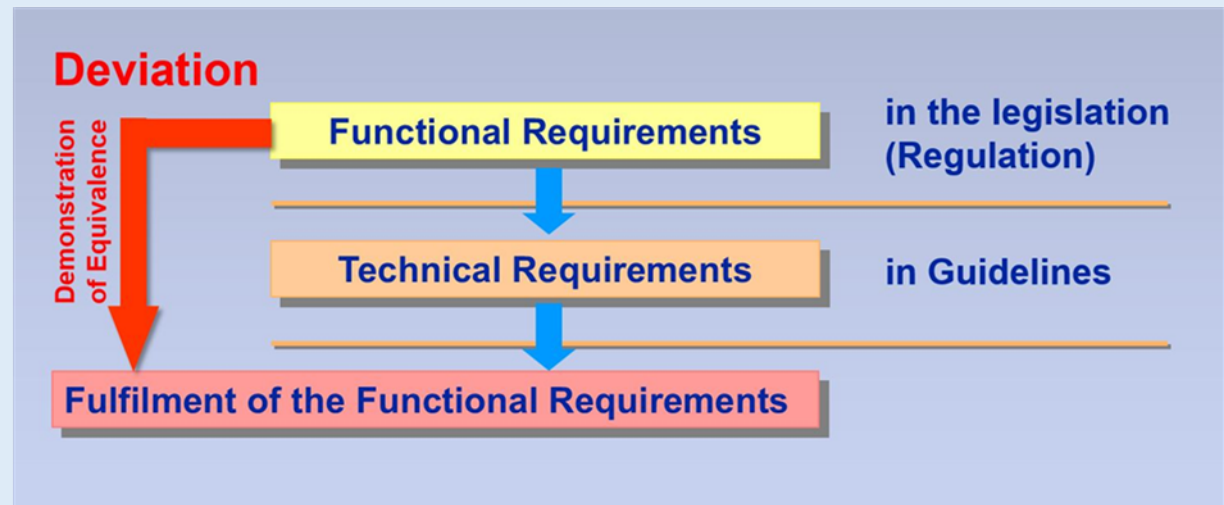
This situation implies considerable unclarity about the technical contents and the requirements which have to be fulfilled in the planning / approval process.

In particular, there are no aggregated technical regulations for individual specific subject areas, in this case for hygiene, health and environmental protection (cf. Inception Report "Hygiene, Health and the Environment").

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## Suggestions

- According to the recommendation, *functional requirements* for buildings and construction works should be established in the Regulation, whereas the *technical requirements* should be developed in separate Guidelines.
- The suggestions in this section shall serve as a layout for the establishment of functional requirements for “**Hygiene, Health and the Environment**” and a respective Guideline in line with the above mentioned recommendation regulations.



# Hygiene, health and environment

The following topics (headings) could build the content of the functional requirements:

Functional requirements	
Sanitation	Protection from dangerous emissions
Waster water	Lighting and illumination
Other effluents	Ventilation and heating/cooling
Waste	Room levels and heights
Combustion gases from furnaces	Storage of hazardous substances
Protection against moisture	Water for industrial use
Drinking water	.....

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**Below examples are given for selected topics, how the functional requirements in the Regulation could be conceived:**

## **Sanitary facilities**

Structures with accommodation areas must be equipped with an adequate number of sanitation fittings, for example, toilets and water outlets. These must satisfy hygiene requirements in view of the size and purpose of the structure. Other structures must also satisfy these requirements if they are designed to accommodate gatherings of a larger number of people.

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**Below examples are given for selected topics, how the functional requirements in the Regulation could be conceived:**

## **Level and height of the rooms**

The floor level of the rooms in relation to the terrain must be designed and constructed in such a way that, in accordance with their purpose, the health and wellbeing of users is not adversely affected.

The height of the room must be appropriate to its purpose and ensure a sufficient volume of air with regard to the health and wellbeing of users.

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The Guideline shall break down these functional requirements into more detailed technical requirements. The following example shows how this could be done for the functional requirement “Level and height of the rooms”:

Functional requirements	Technical requirements
<p><b>Level and height of the rooms</b></p> <p>The height of the room must be appropriate to its purpose and ensure a sufficient volume of air with regard to the health and wellbeing of users.</p>	<p><b>Accommodation areas must have</b></p> <ul style="list-style-type: none"><li>• a clearance of at least <b>2.50 m</b>, except single- and two-family dwellings and terraced houses, which must have a clearance of at least <b>2.40 m</b>.</li><li>• If this height is not achieved at all points within the room, the air space must nevertheless be at least the same as it is in case of a horizontal ceiling.</li></ul>

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The Guideline shall break down these functional requirements into more detailed technical requirements. The following example shows how this could be done for the functional requirement “Level and height of the rooms”:

Functional requirements	Technical requirements
<p><b>Level and height of the rooms</b></p> <p>The height of the room must be appropriate to its purpose and ensure a sufficient volume of air with regard to the health and wellbeing of users.</p>	<p>The clearance of rooms other than accommodation areas where people only stay on a temporary basis must be laid down in accordance with their intended purpose, while the room area and the number of persons to be accommodated shall be stipulated such that a sufficiently large volume of air is guaranteed. However, the clearance may not fall below <b>2.10 m</b> under any circumstances.</p>