

# Physique du Bâtiment II

## Phénoménologie

**Chapitre 4.4    Rayonnement**

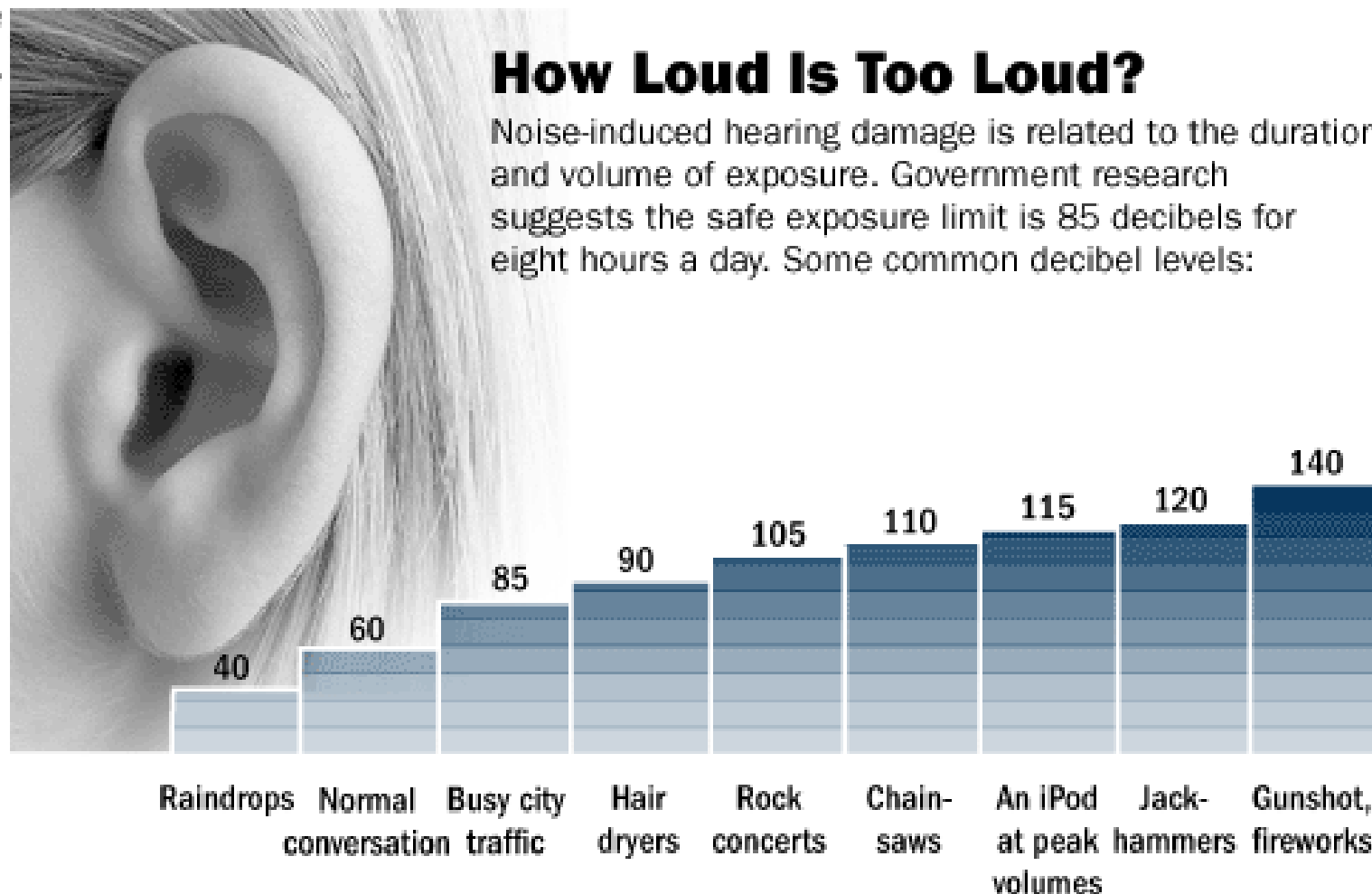
**Chapitre 9**  
**(Ch 1)**            **Photométrie**  
                     **Propagation de la lumière**

**Chapitre 10**  
**(Ch 2)**            **Colorimétrie**  
                     **Perception des couleurs**  
                     **Diagramme chromatique**

**Chapitre 6**            **Propriétés des ondes sonores**  
                             **Superposition des ondes**  
                             **Propagation du son**  
                             **Acoustique            géométrique**  
   **ondulatoire**  
   **statistique**

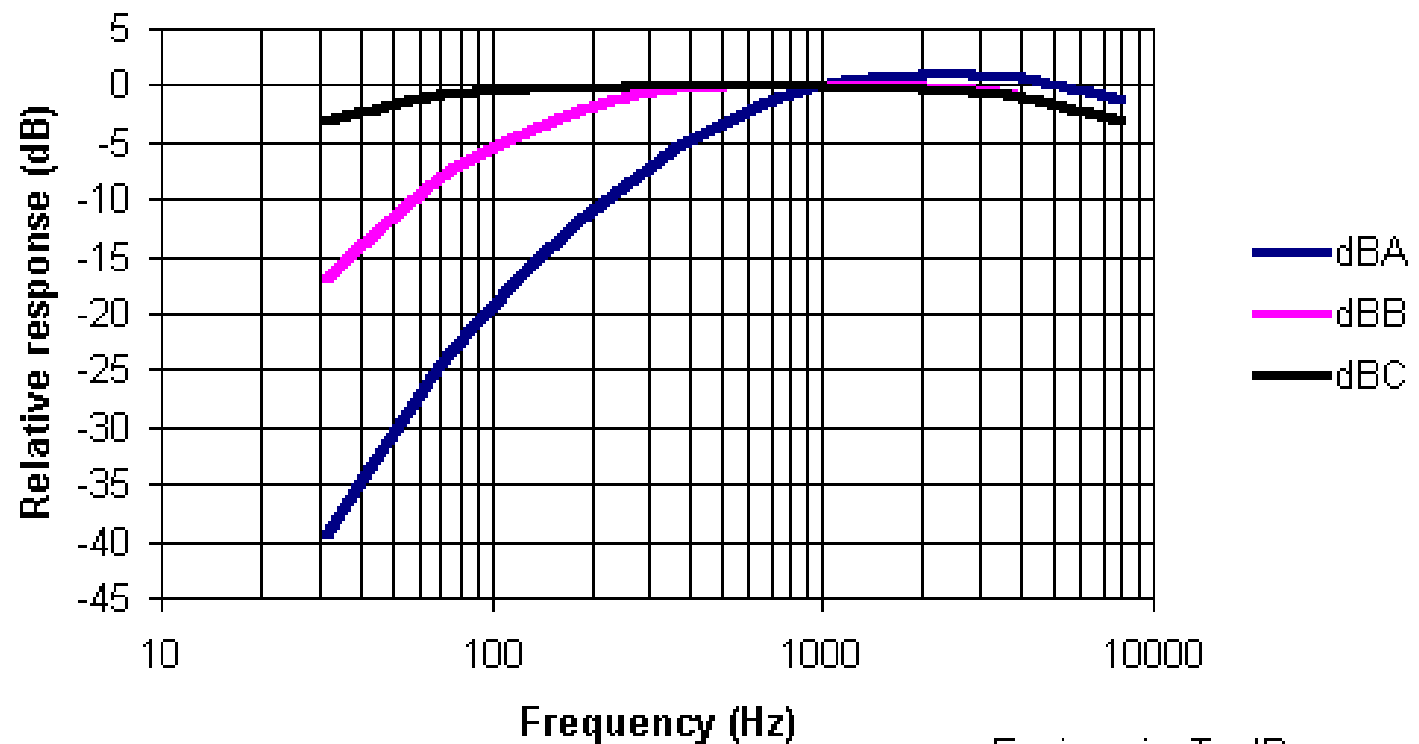
## How Loud Is Too Loud?

Noise-induced hearing damage is related to the duration and volume of exposure. Government research suggests the safe exposure limit is 85 decibels for eight hours a day. Some common decibel levels:



Sources: [dangerousdecibels.org](http://dangerousdecibels.org); WSJ research

## dB ABC Criteria



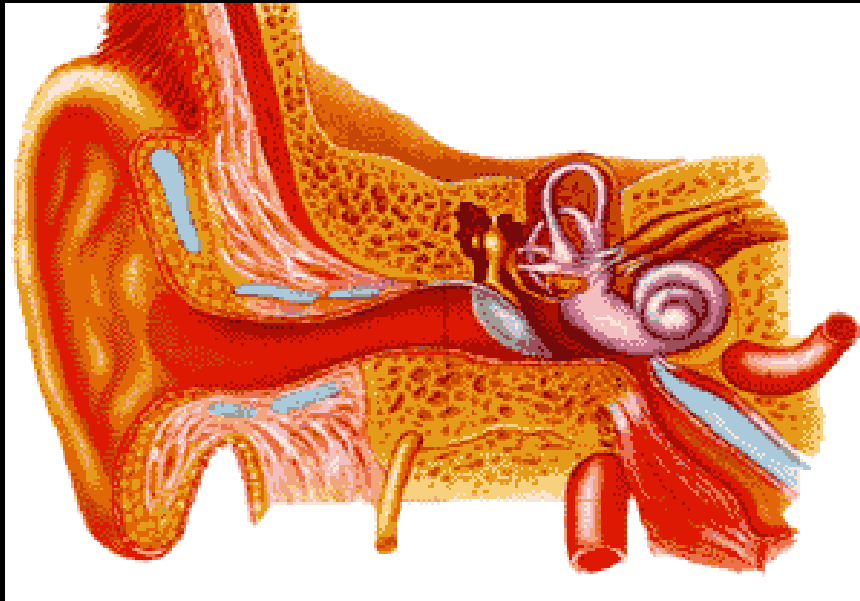


- **Batterie : 100 dB(A)**
- Répétition de petites formations : 90 à 100 dB(A)
- Discothèque (bord de piste) : 100 à 105 dB(A)
- Local de répétition rock : 102 à 107 dB(A)
- Concerts de rock-variétés : 102 à 107 dB(A)
- 60 dB(A) correspond au bruit d'un supermarché





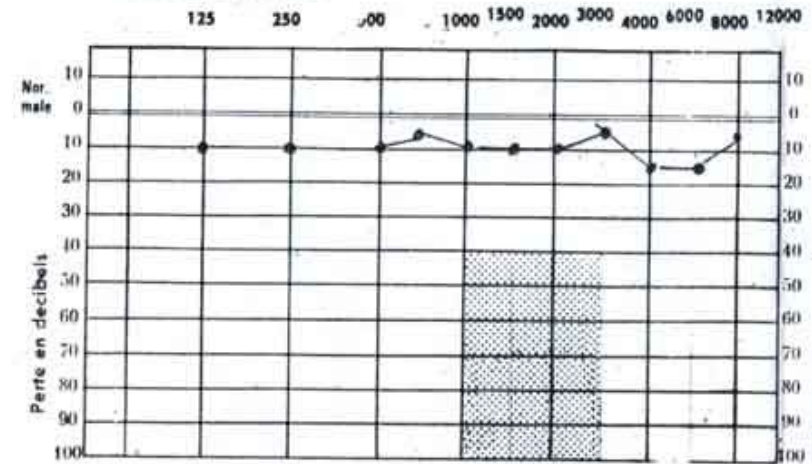




Une exposition prolongée à 85 dB(A)  
est nocive

Date de l'examen: 12.2.2001.

### OREILLE DROITE

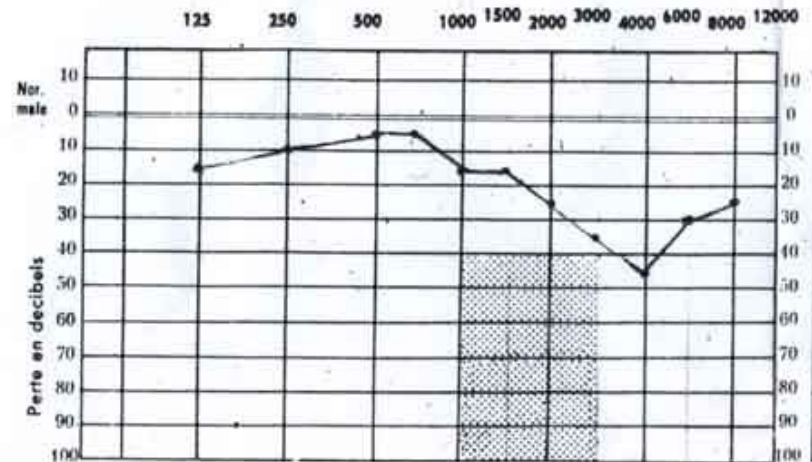


Observations:

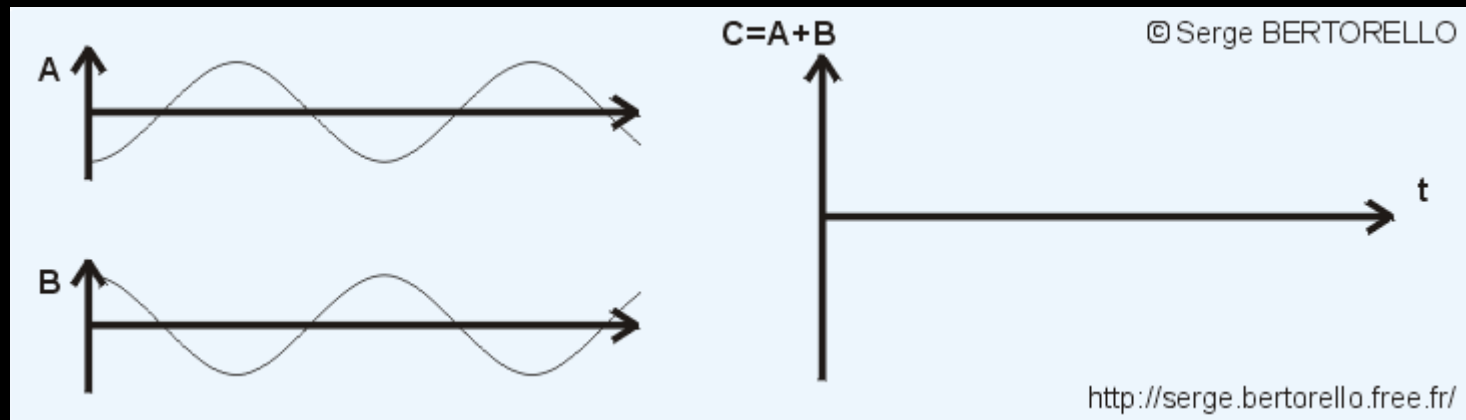
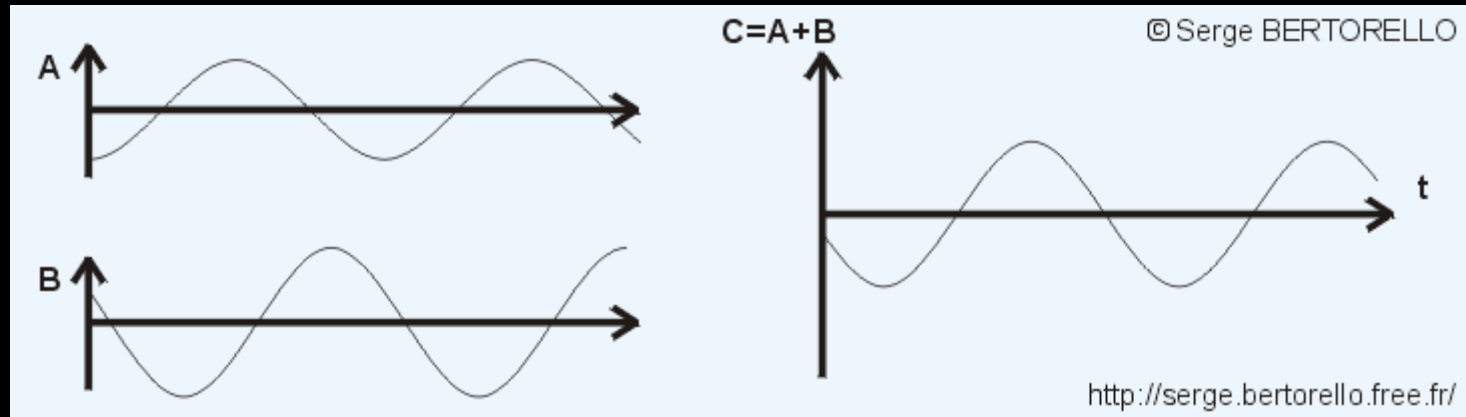
- 10,5 dBH

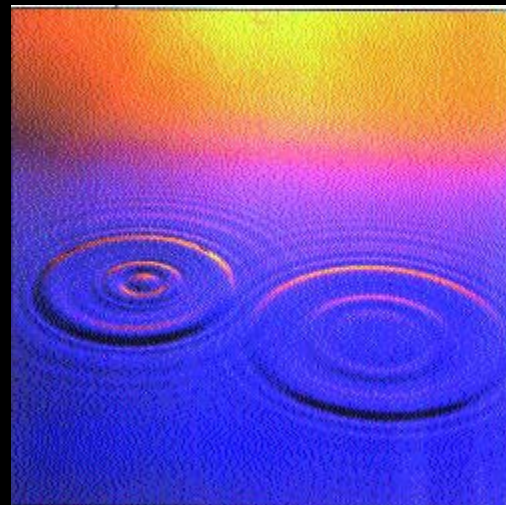
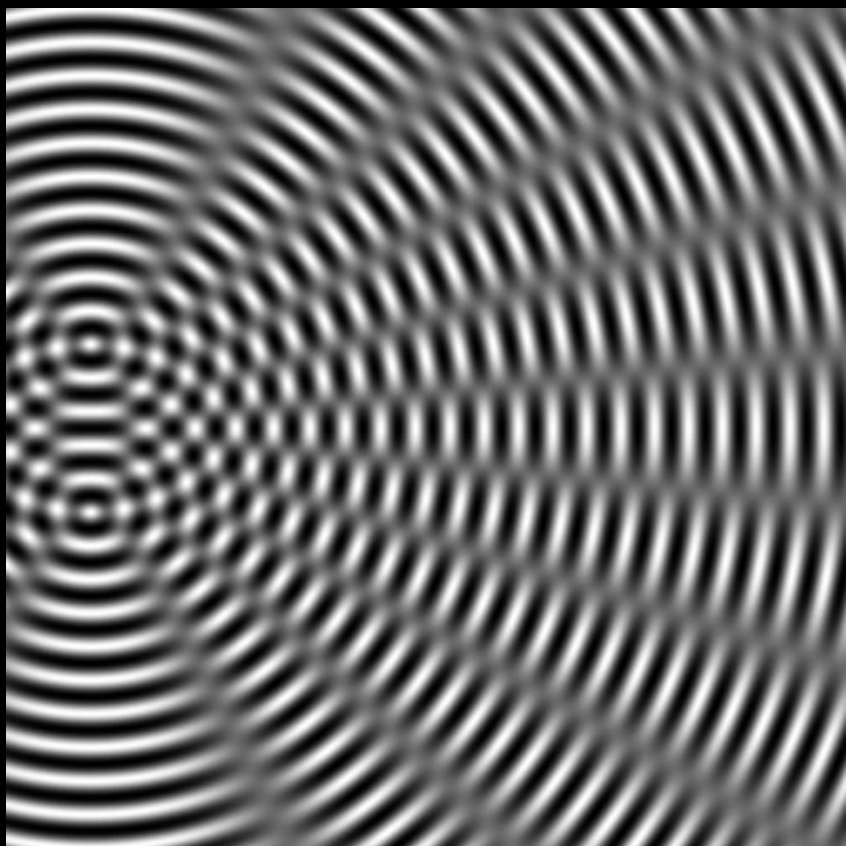
Date de l'examen: 24.03.2005.

### OREILLE DROITE

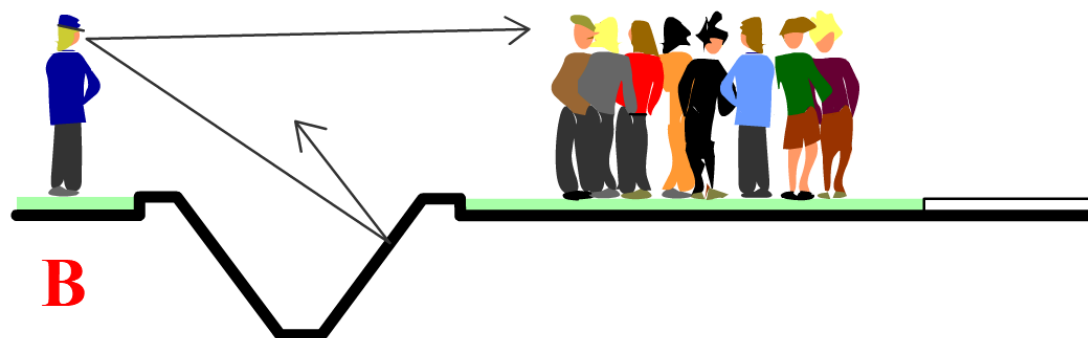


Observations:



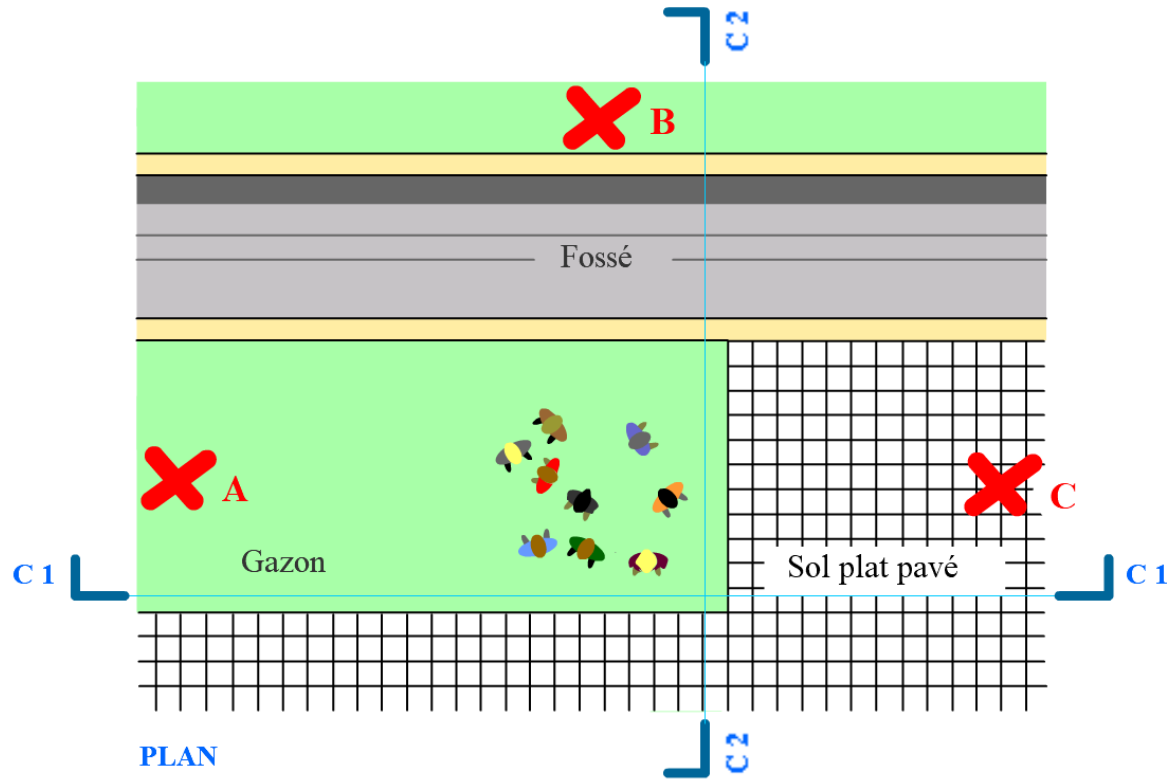
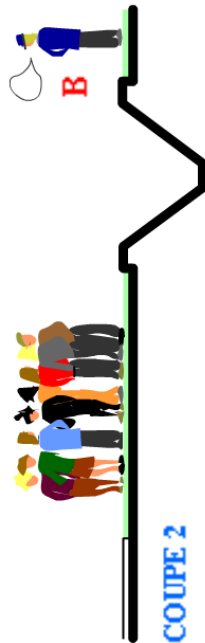




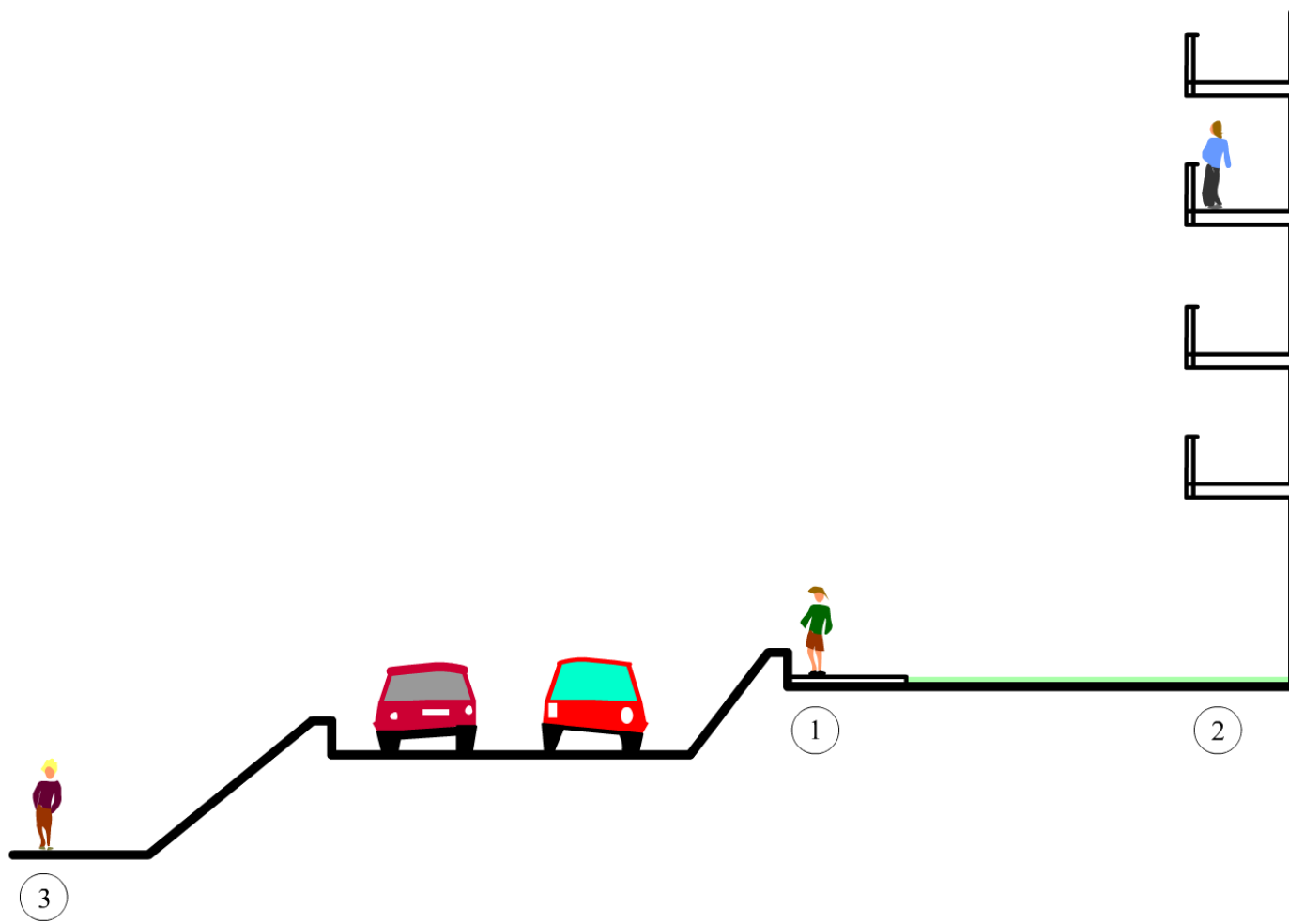




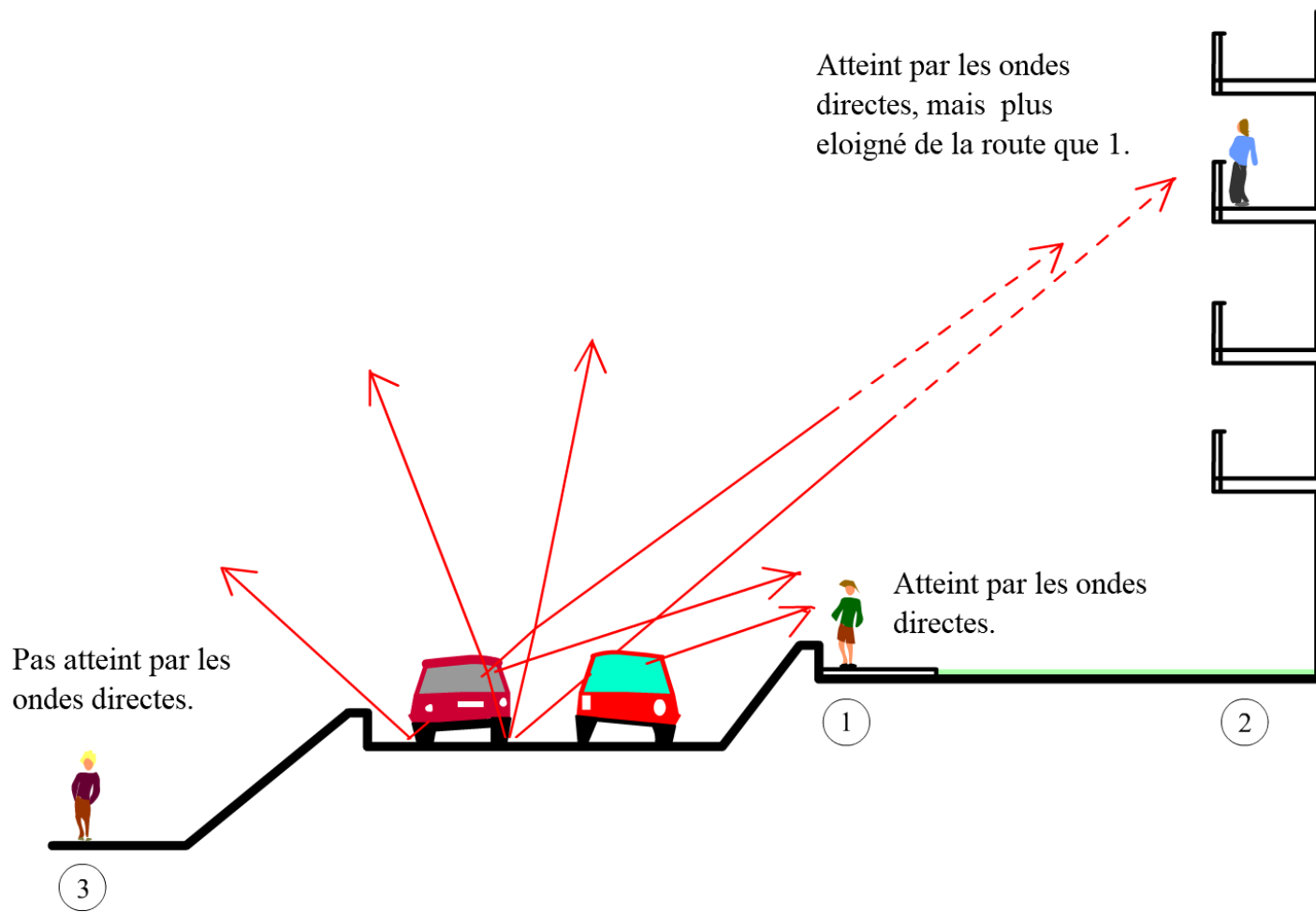
COUPE 1

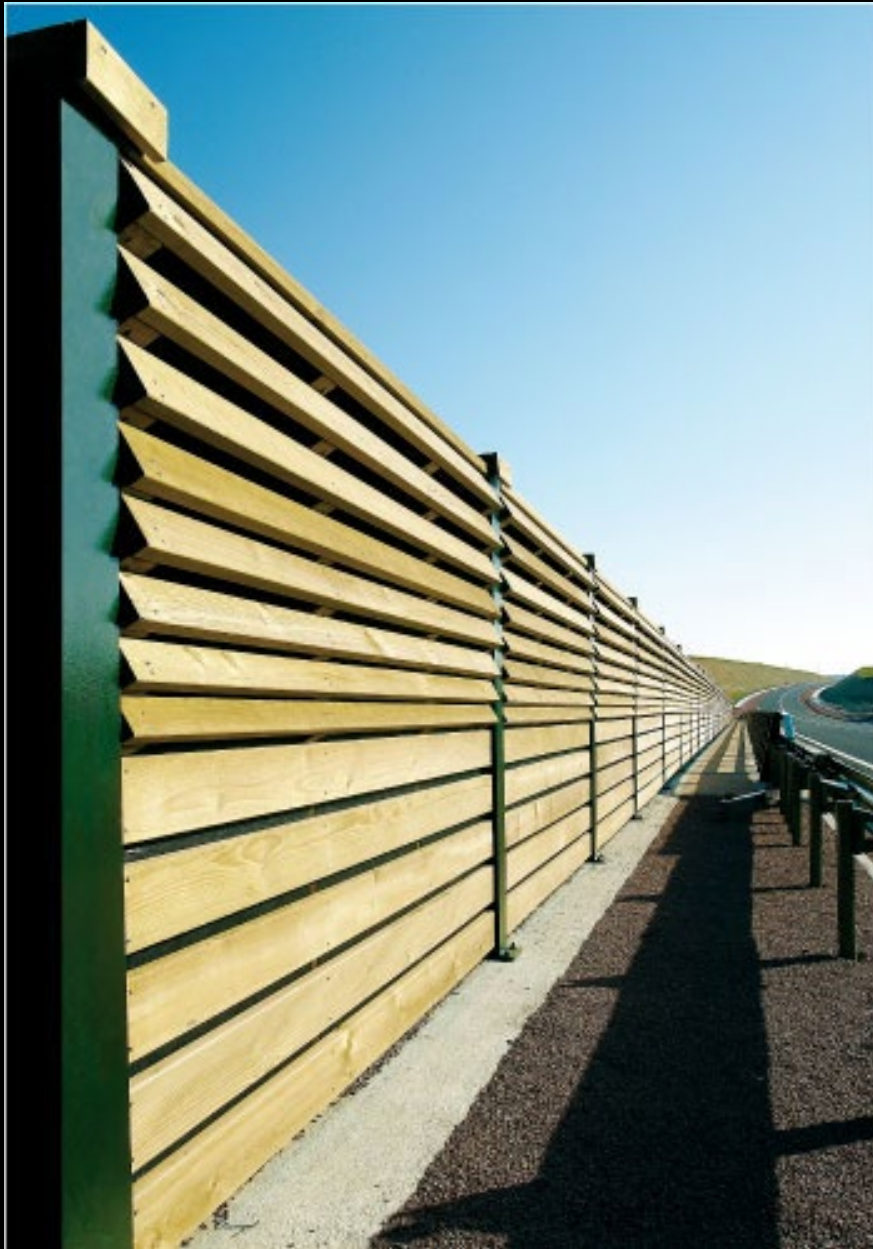












**Ecrans acoustiques,  
protection antibruit**

