

# Pont en bois

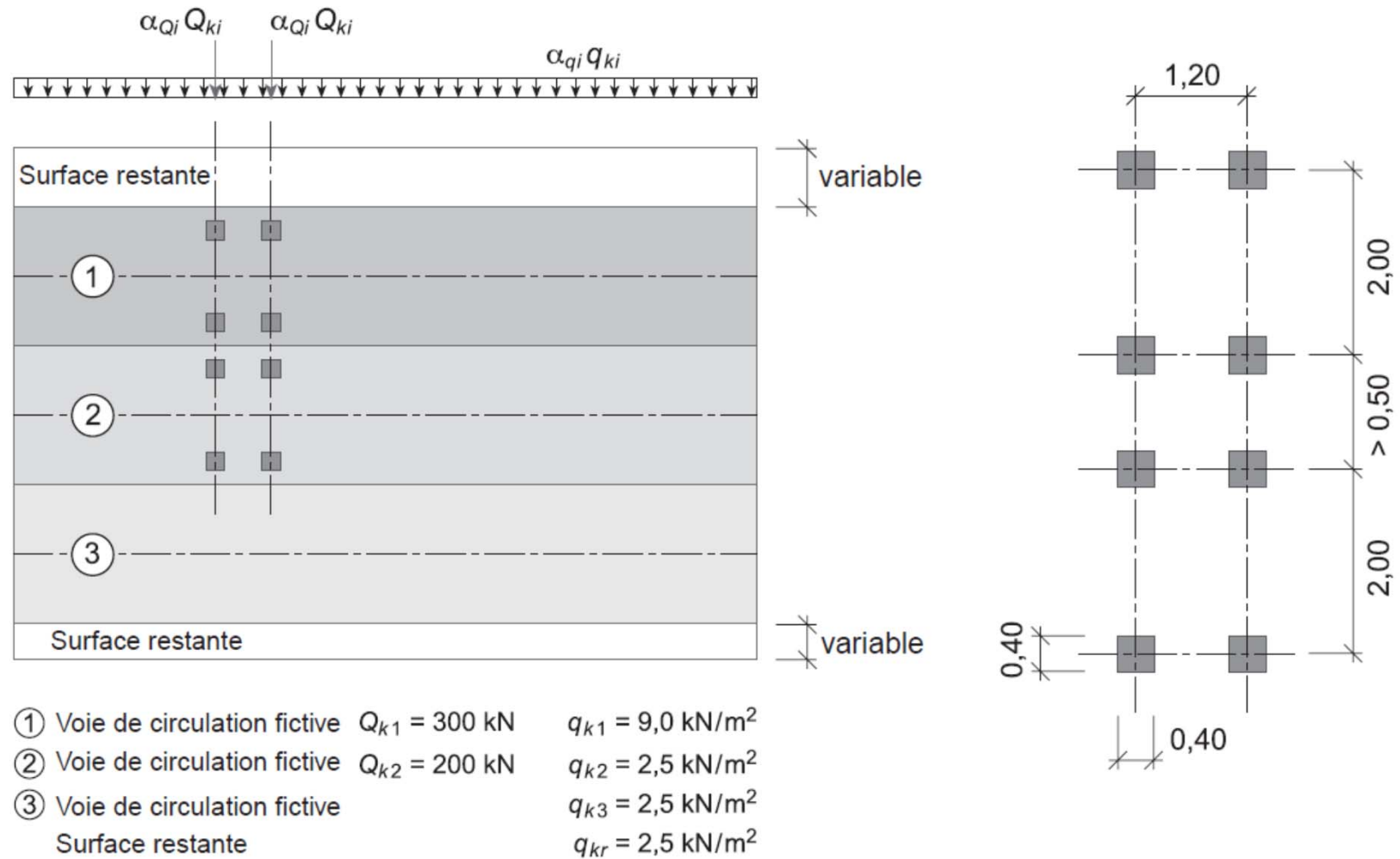
## Charge ponctuelle

Natterer Johannes

Ing. dipl. EPFL

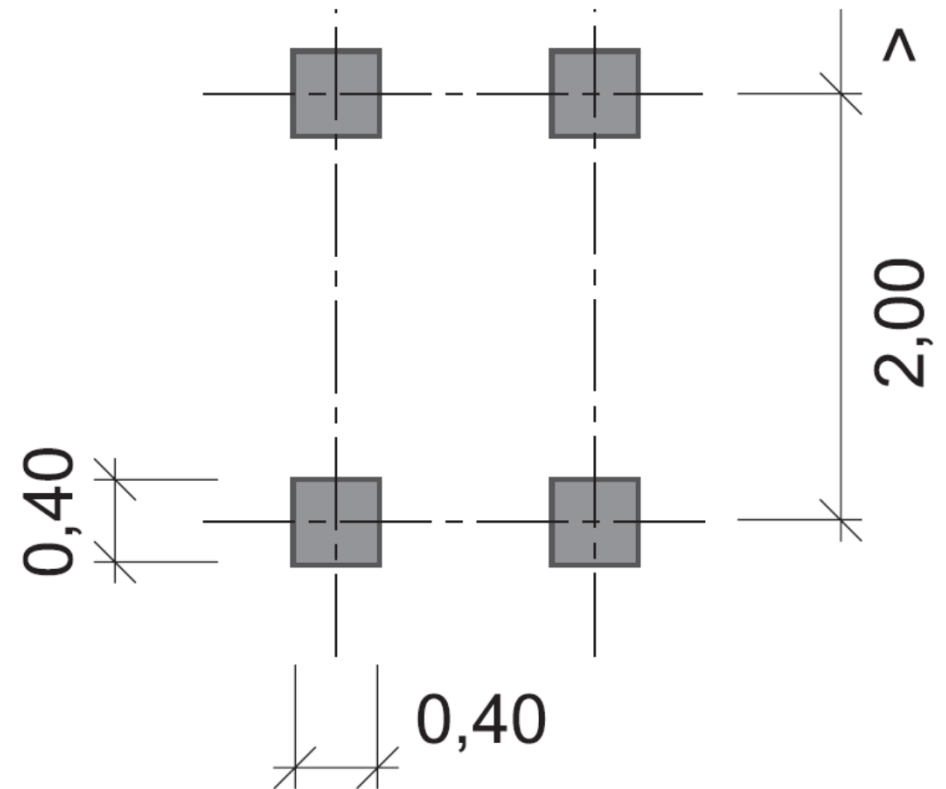
# Problématique de base

Figure 8: Disposition possible des charges du modèle de charge 1 (dimensions en m)



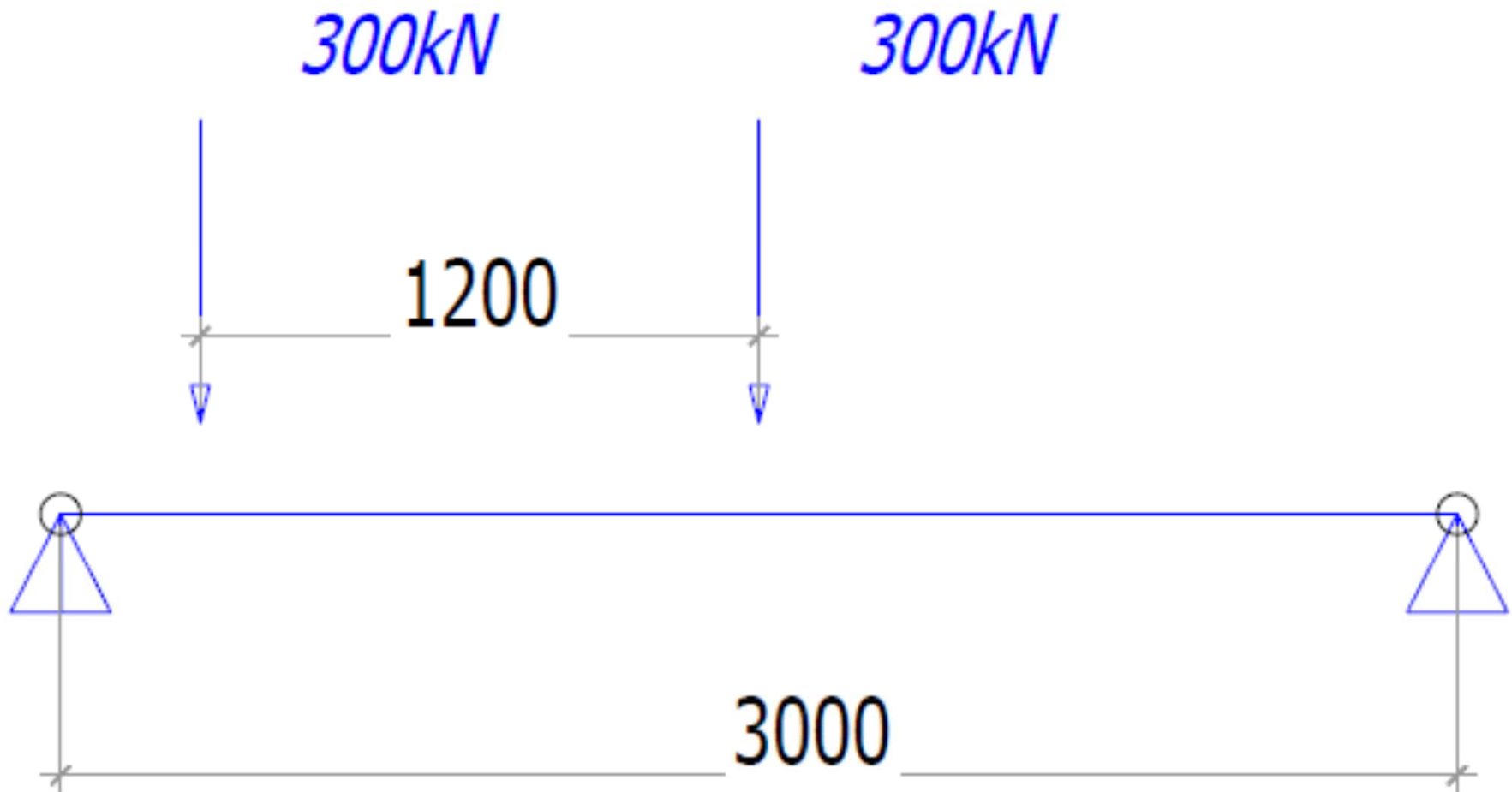
# Charge ponctuelle

- $Q_{k1} = 300 \text{ kN}$
- $Q_{k2} = 200 \text{ kN}$
- Surface d'application  
400/400 mm<sup>2</sup>



# Système statique

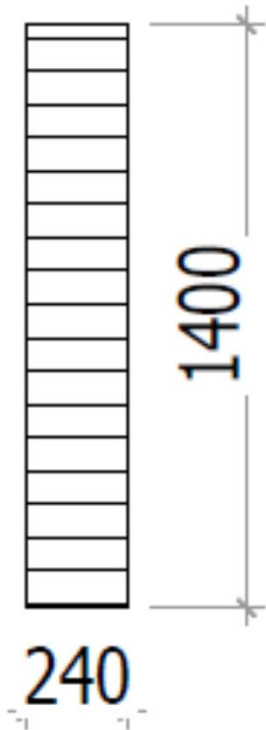
- Pour  $Q_{k2} = 200\text{kN}$



# Section minimale

Debout

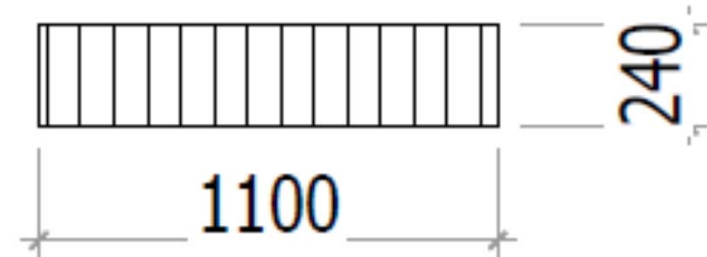
24/132 cm<sup>2</sup>



Posé à plat

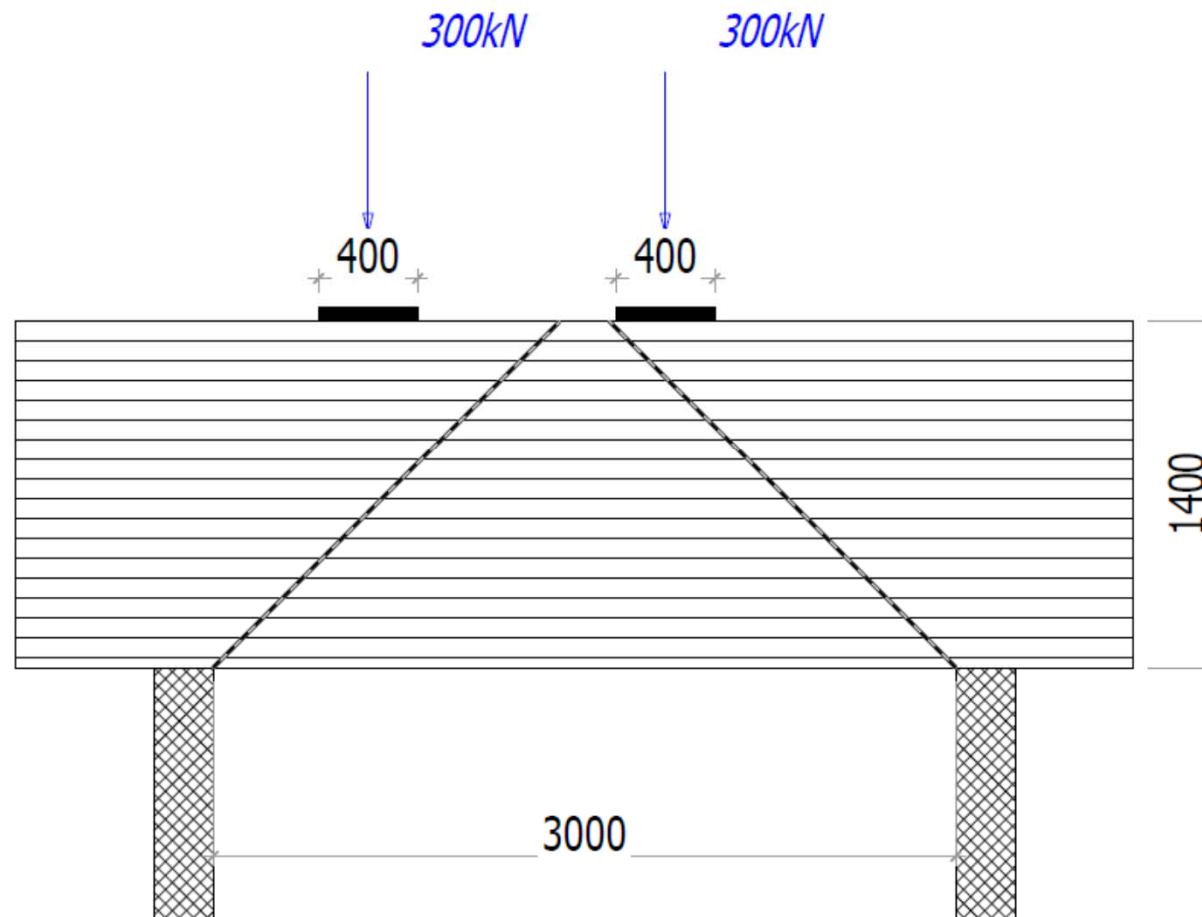
$K_{\text{sys}}$

24/110 cm<sup>2</sup>



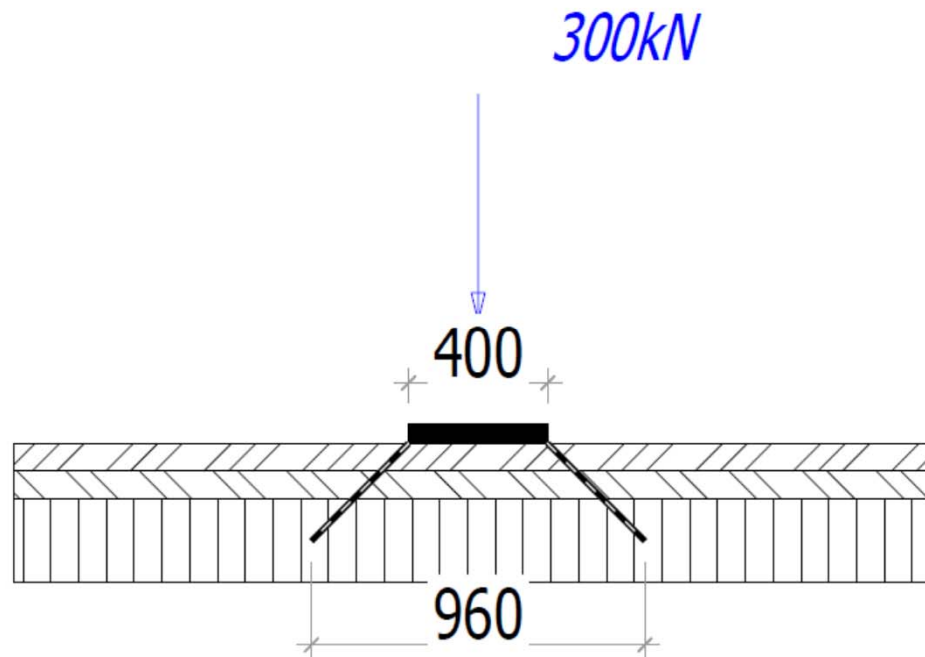
# Diffusion de la charge

- Distance de l'appui



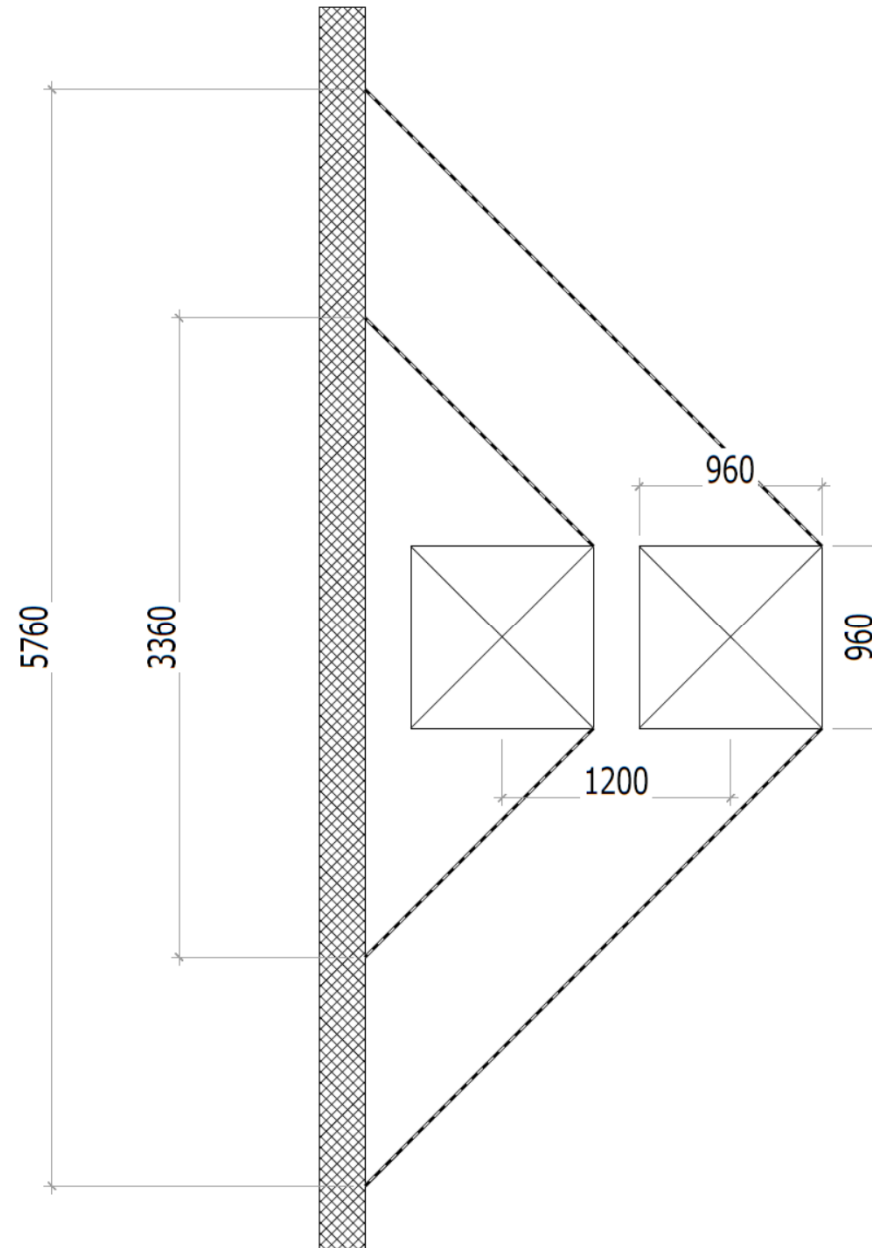
# Diffusion de la charge

- Dans les couches constructive, admis  $45^\circ$



# Diffusion de la charge

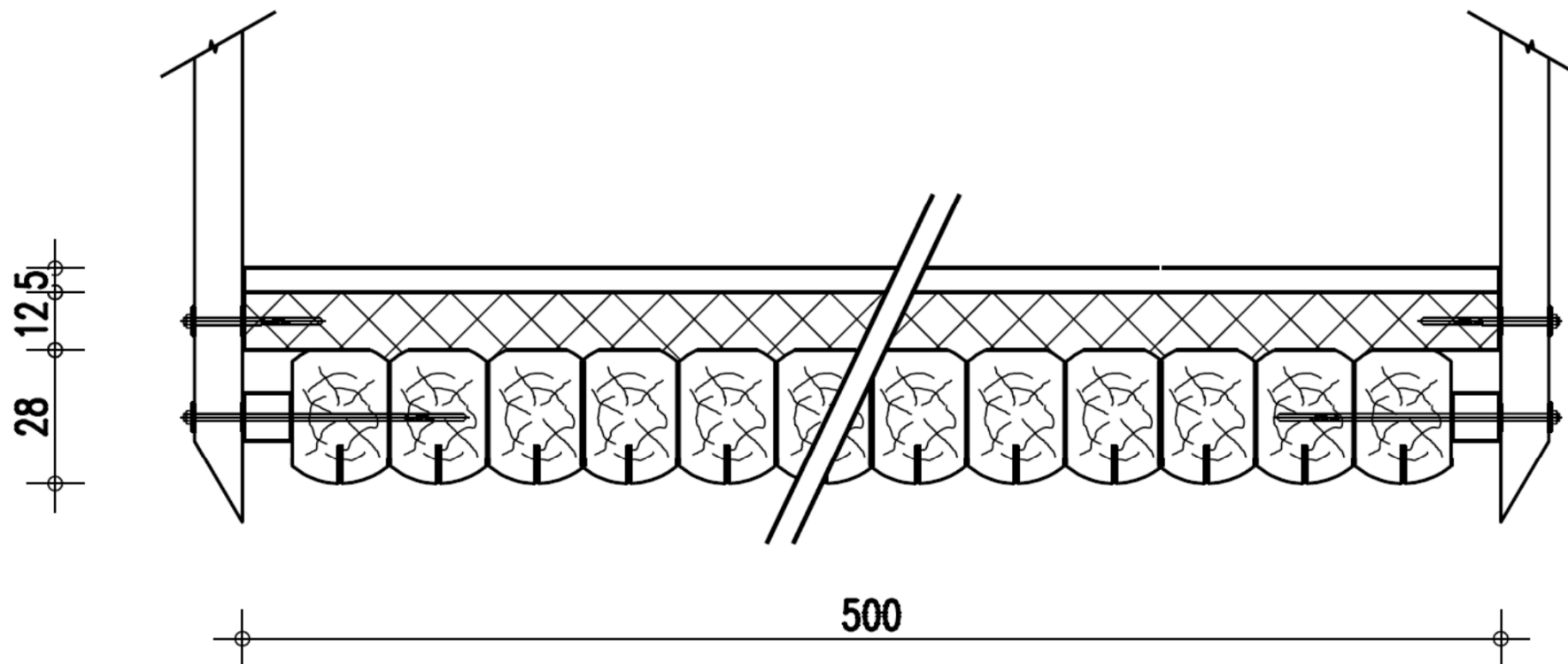
- Dans la dalle





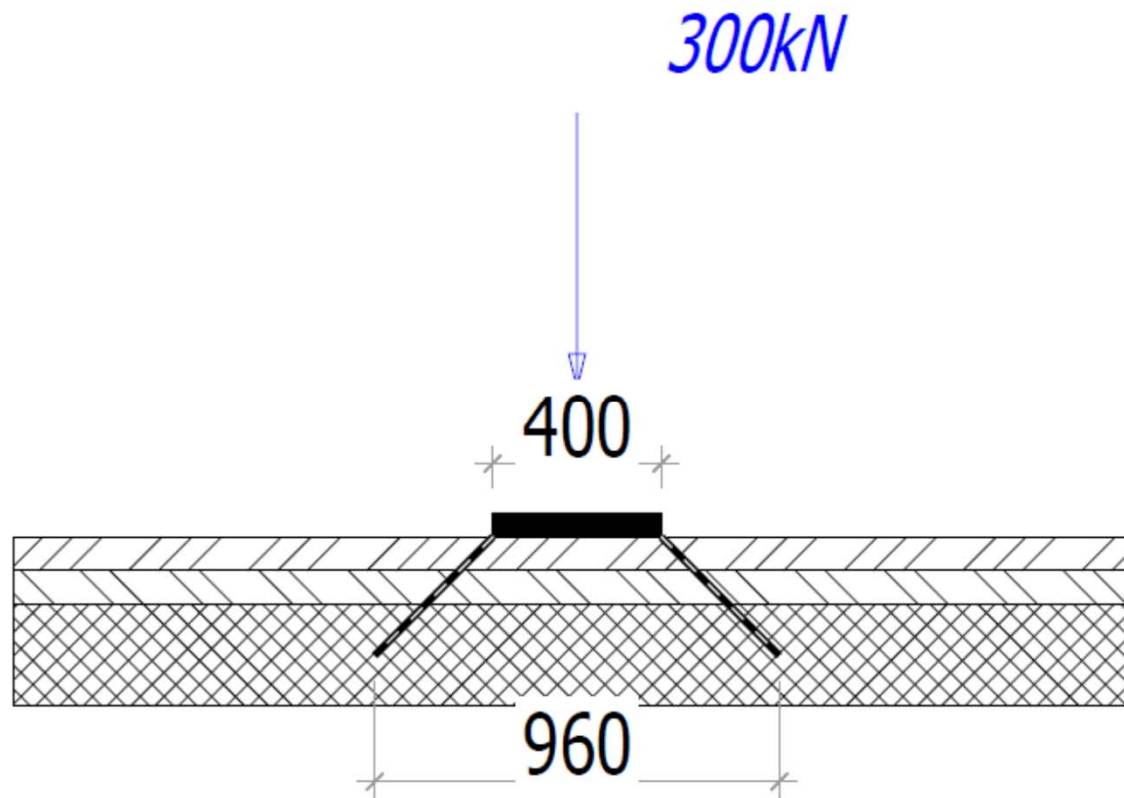
# L'évolution de la solution

# Dalle bois béton mixte

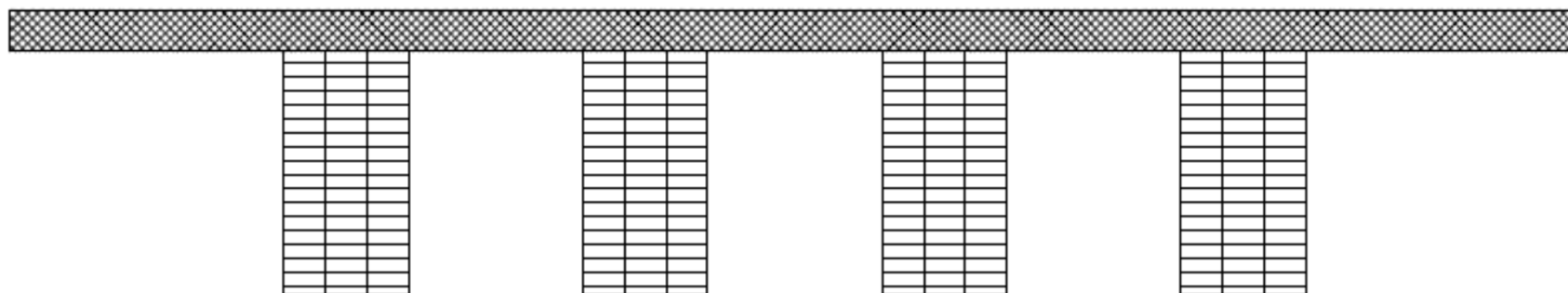


# Poinçonnement

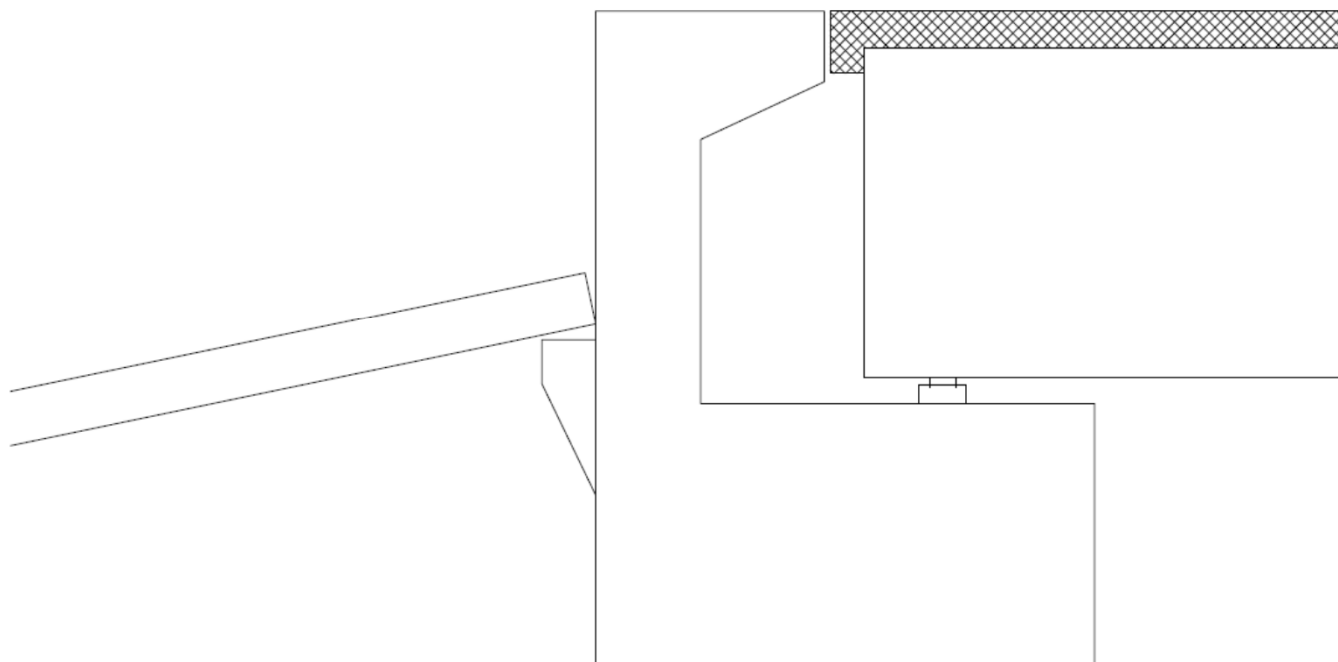
- De la dalle béton



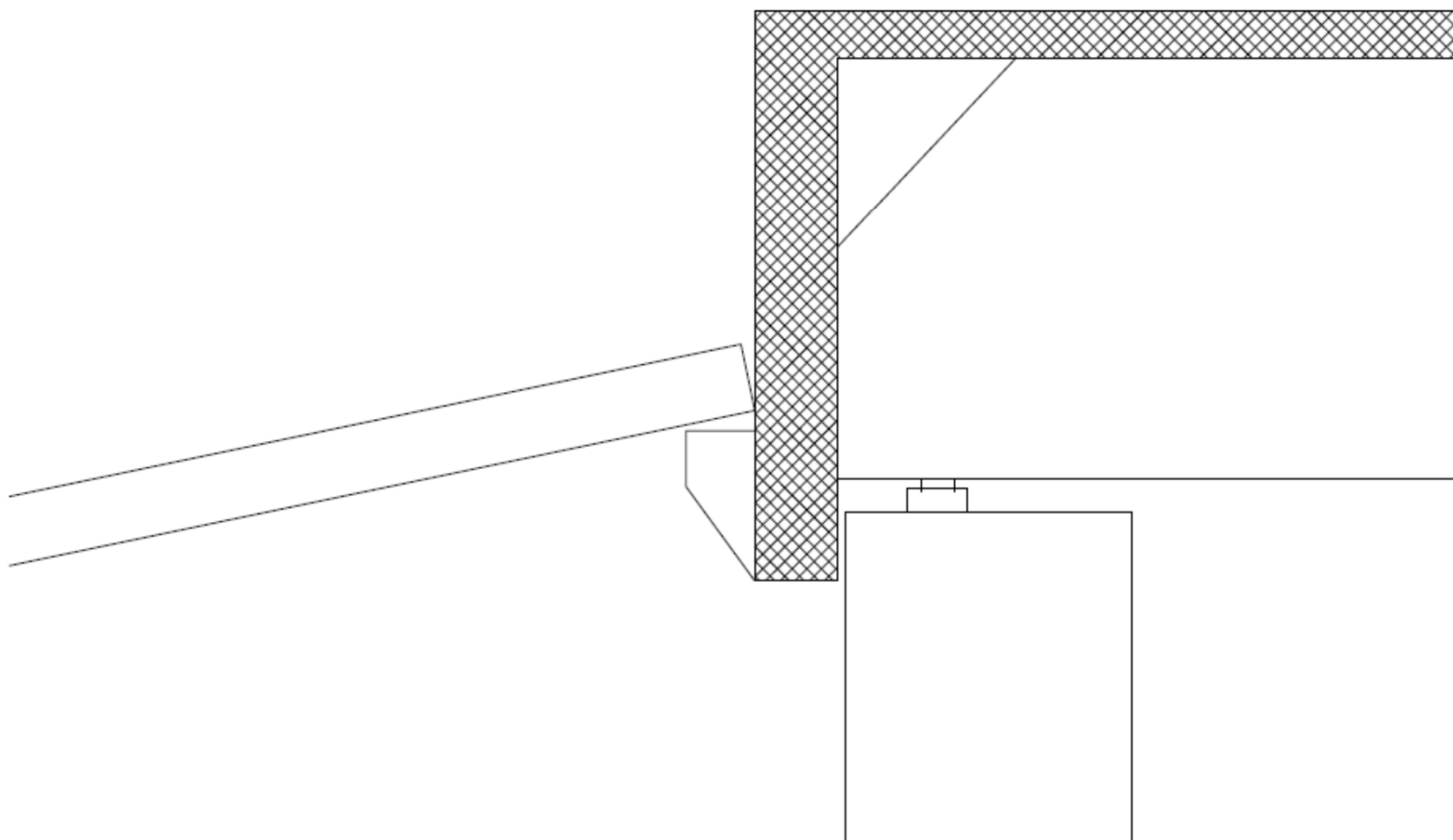
# Pont poutre bois béton mixte



# Culée standard



# Culée semi-intégrale



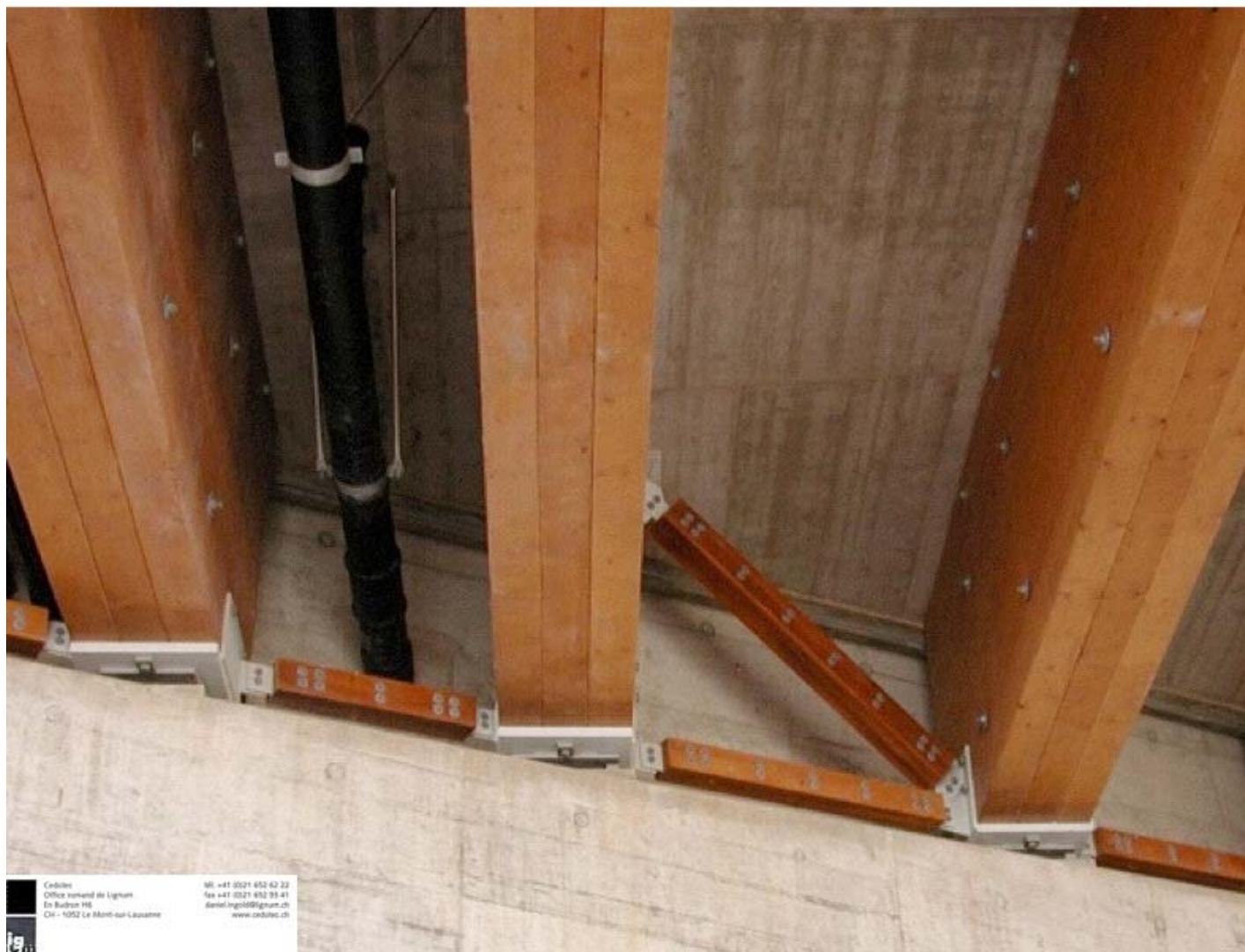
# Exemple

## Le pont de Prachaboud

Source Lignum et Swiss Timber Bridges

Entreprise Vial Charpente Le Mouret

# Entretoise





# Les poutres



# La connexion





# La protection constructive



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