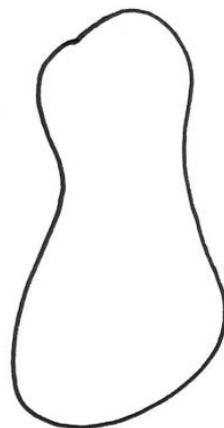


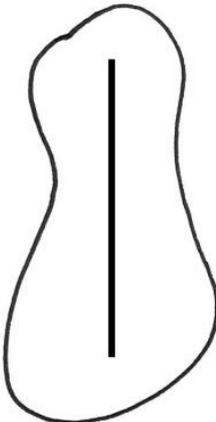
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# Structural Concept

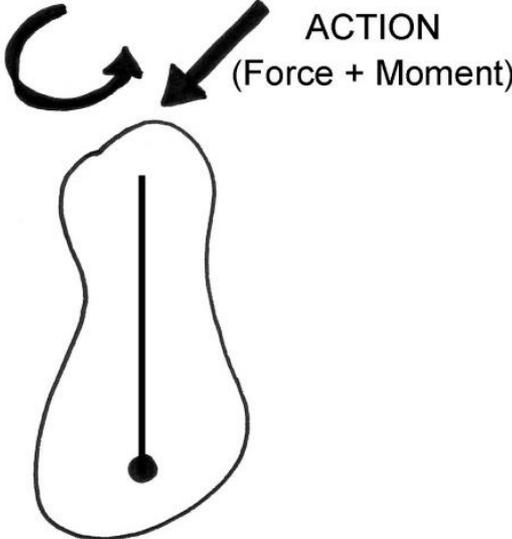
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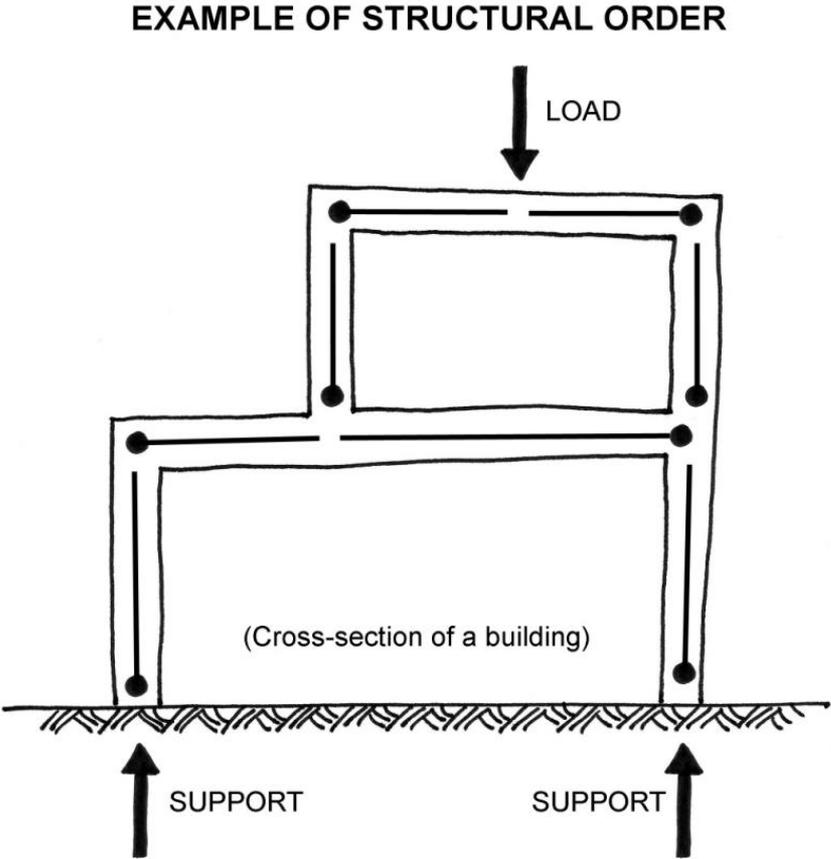
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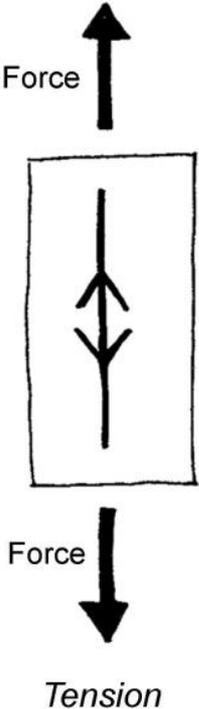
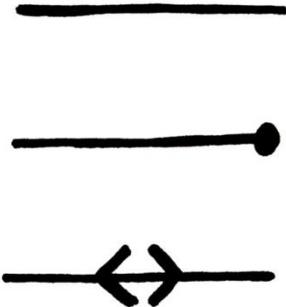
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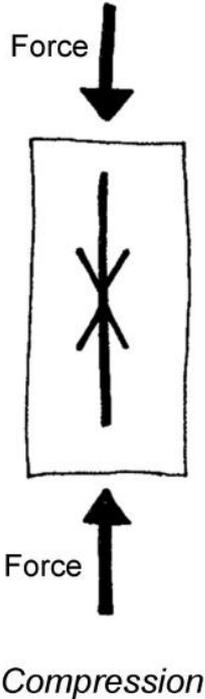
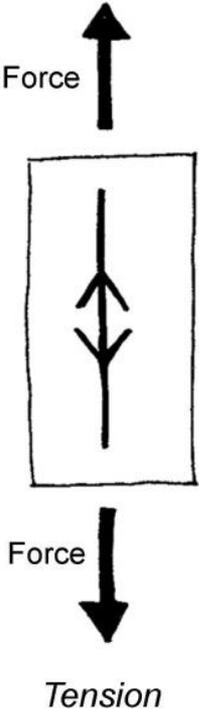
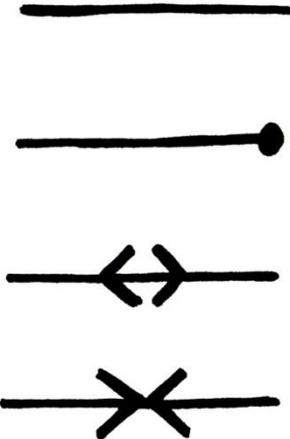
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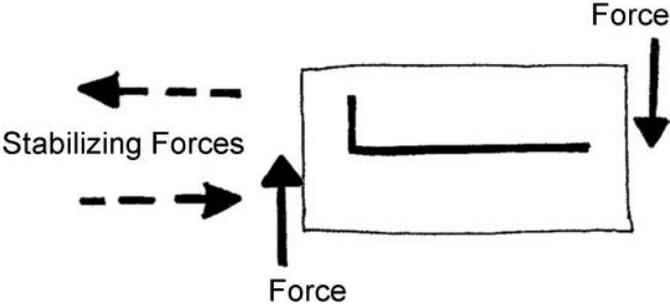
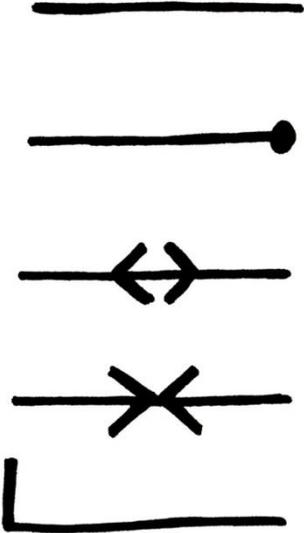
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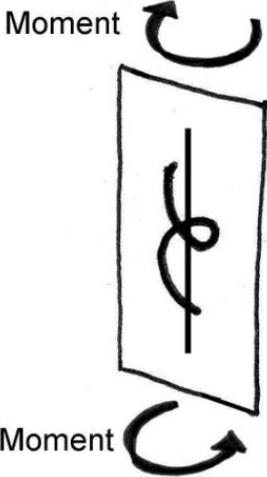
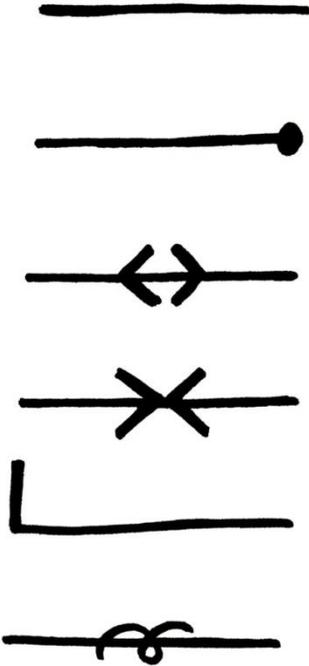
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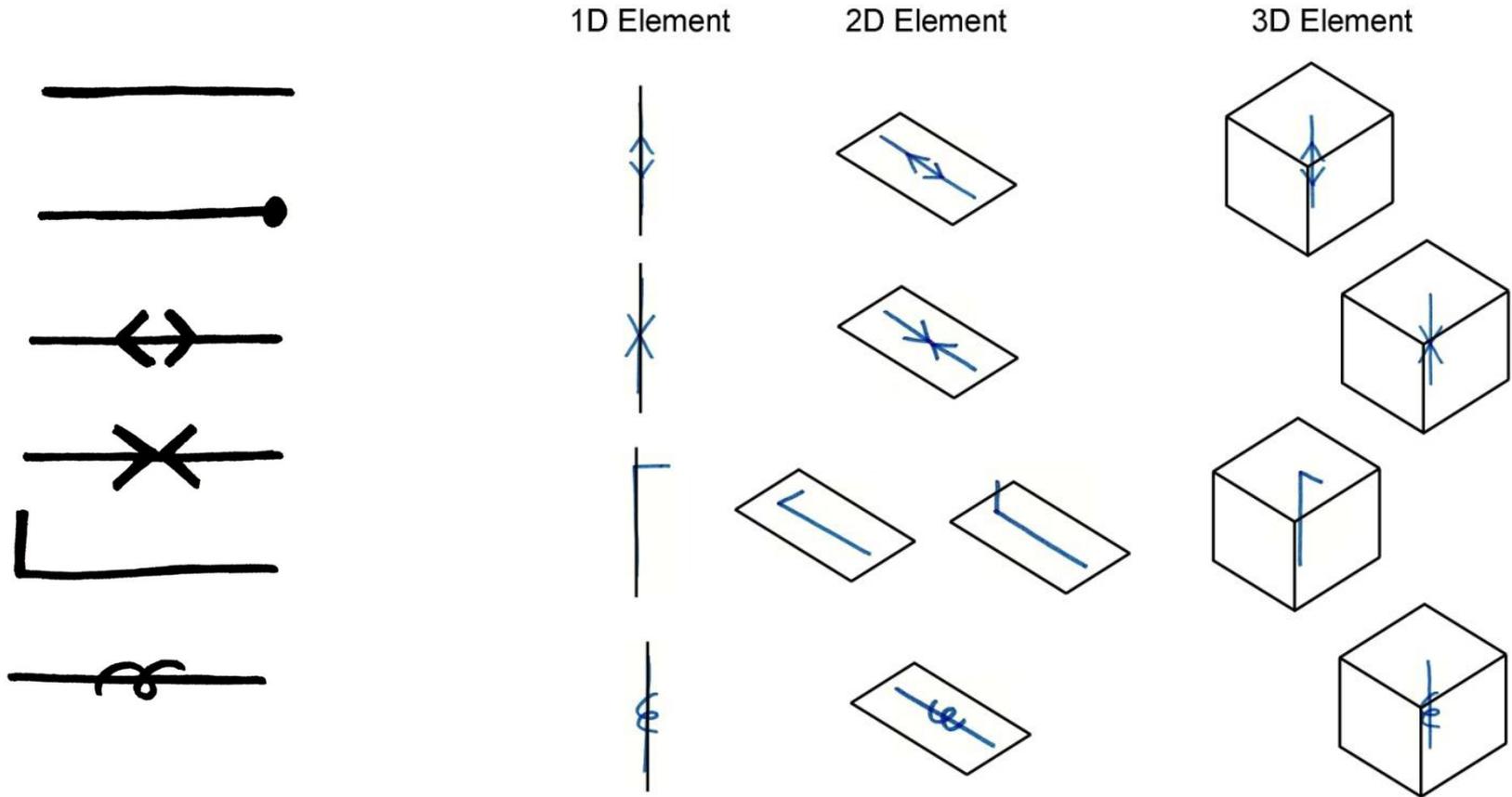
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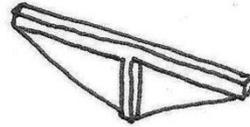
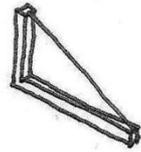


# Structural language of symbols

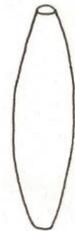


# Structural language of symbols





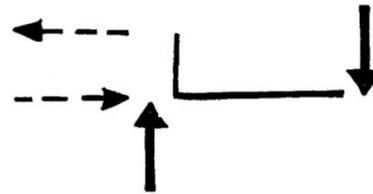
$N < 0$



$N > 0$



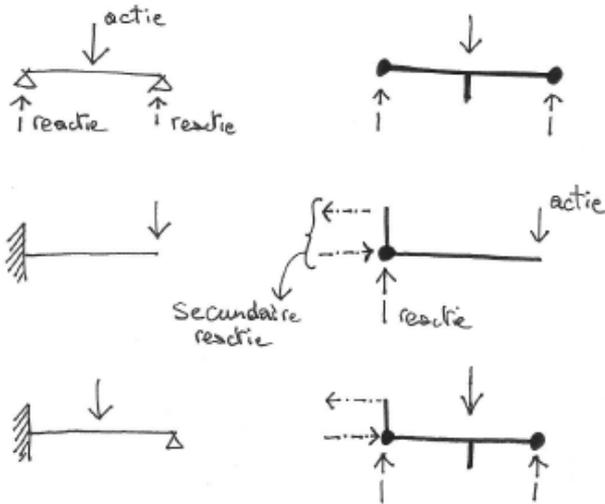
M



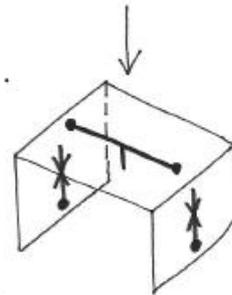
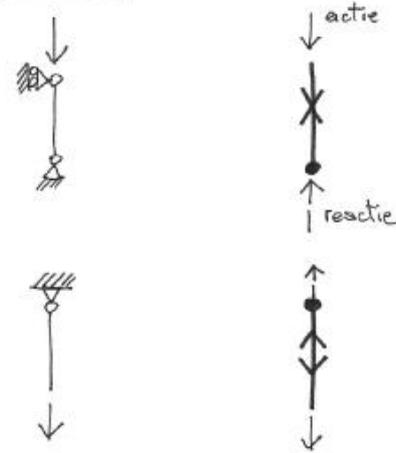
# Symbolen nieuwe structuurtaal

- : geeft aan waar waar de (actie) last zich verplaatst.
- | : geeft aan waar het grootste buigmoment te verwachten valt. De | wordt uitgeret aan de kant waar de trekspanningen te verwachten zijn.
- X : geeft aan dat het structureel element samengetrokken wordt.
- ◇ : geeft aan dat het structureel element uitgetrokken wordt.
- ∞ : geeft aan dat het structureel element getorst wordt.

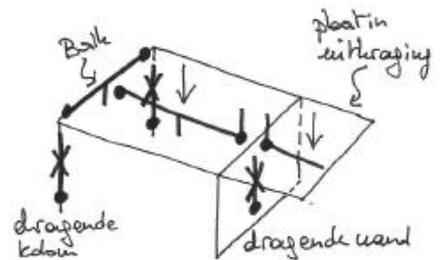
## Voorbeelden I



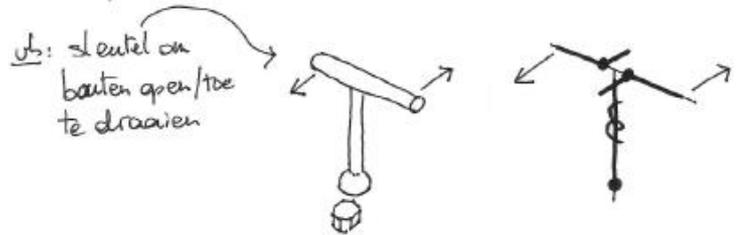
## Voorbeeld II



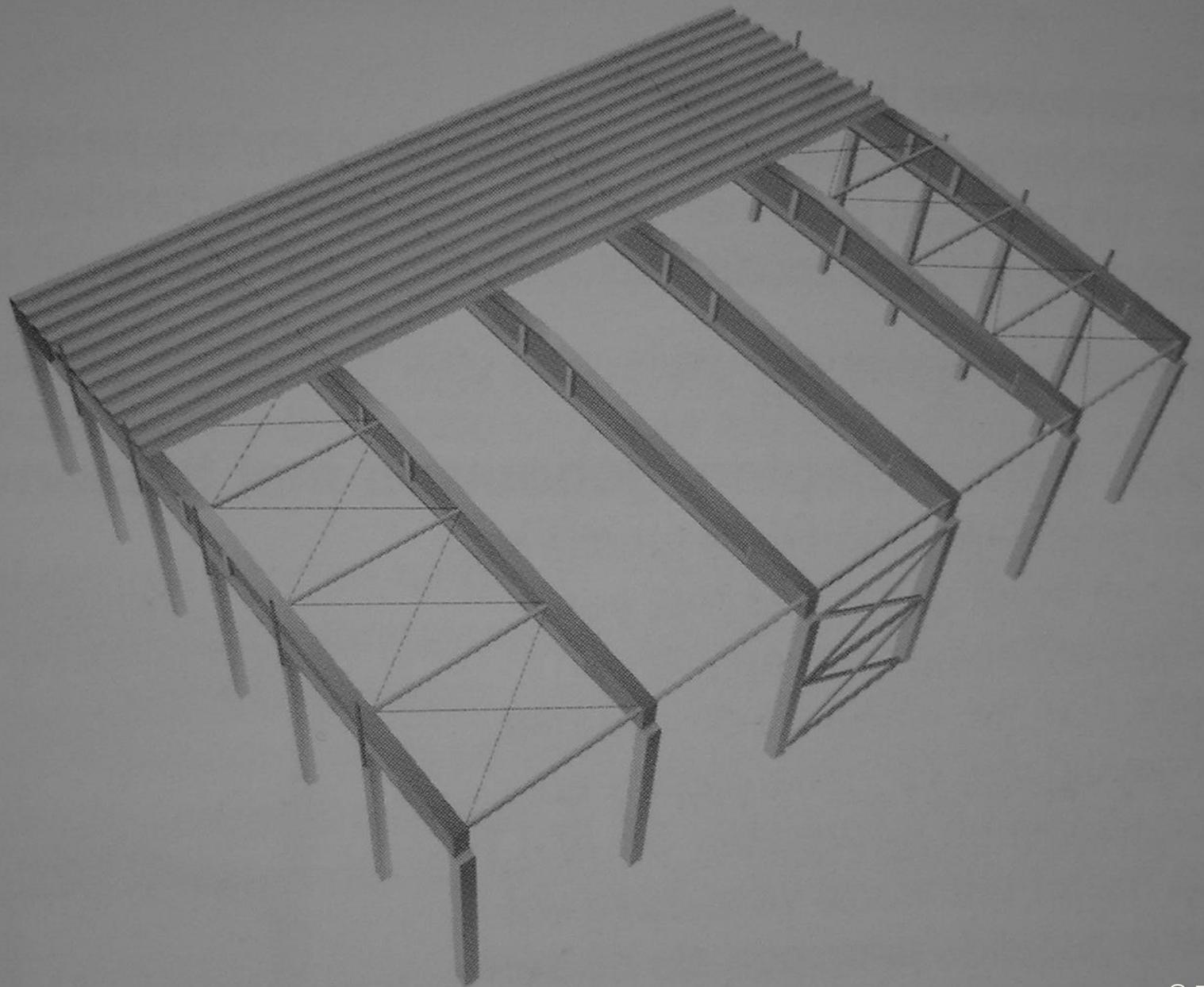
vb: vloerplaat steunend op 2 wanden

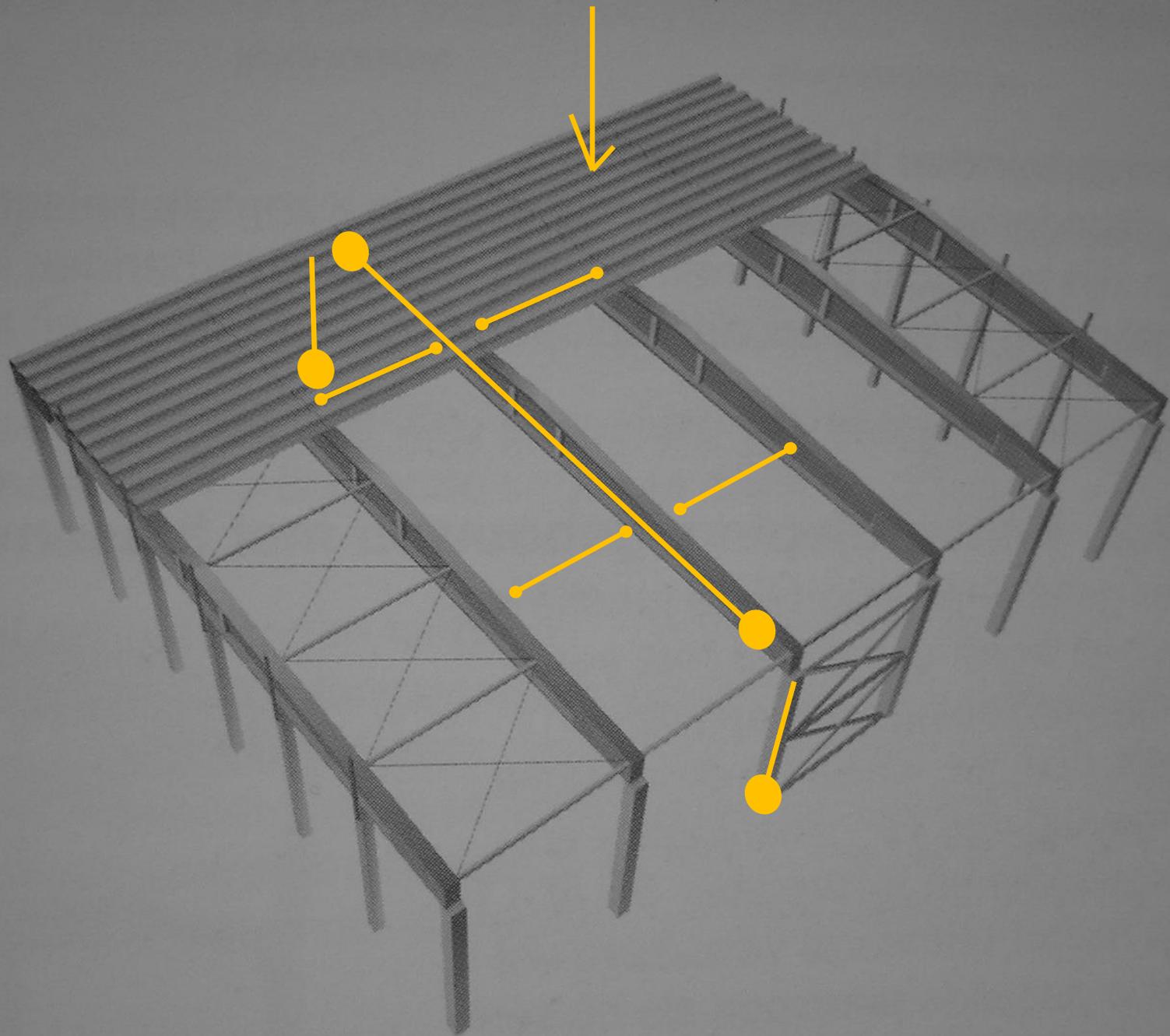


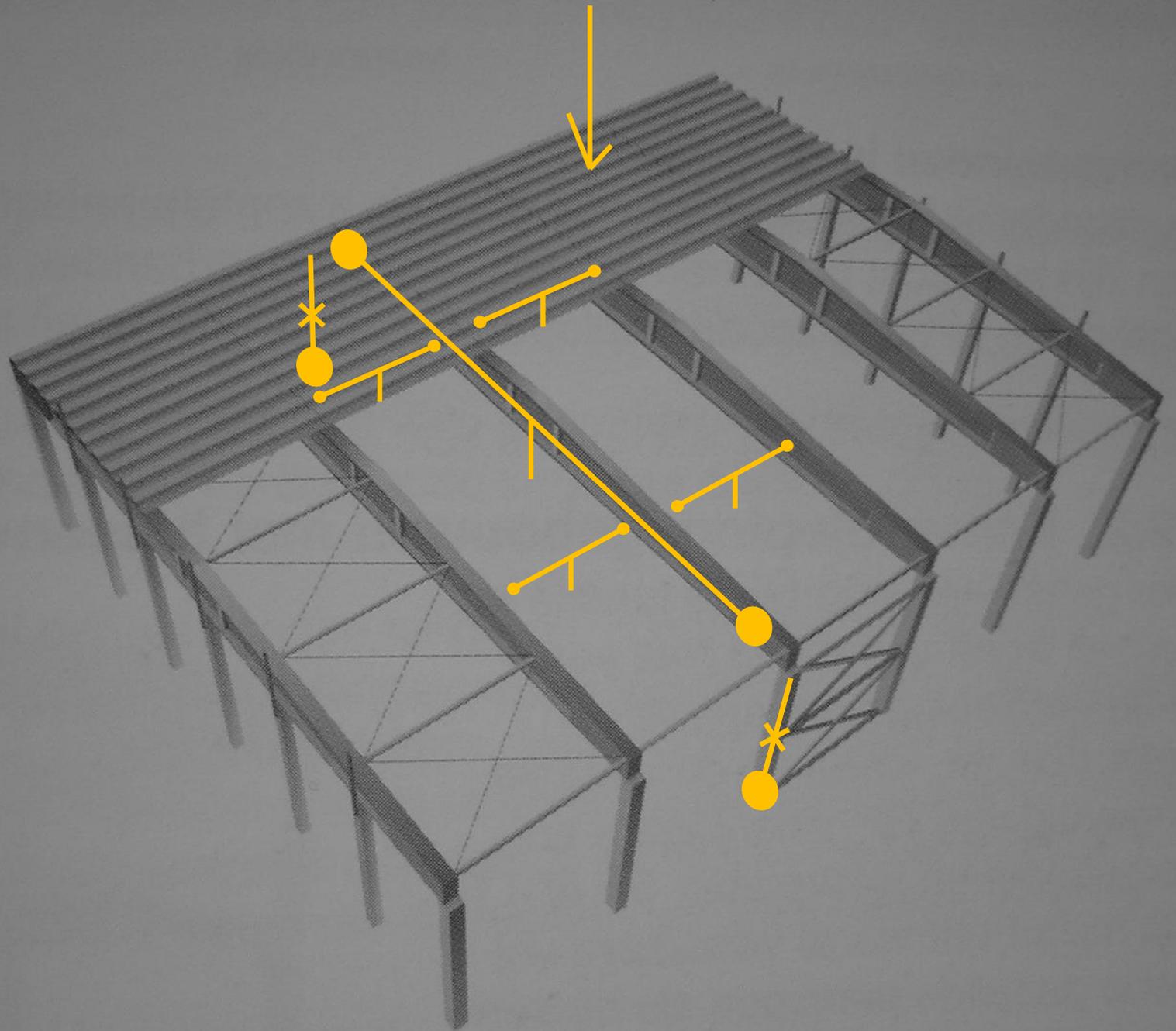
vb: opname verticale belasting

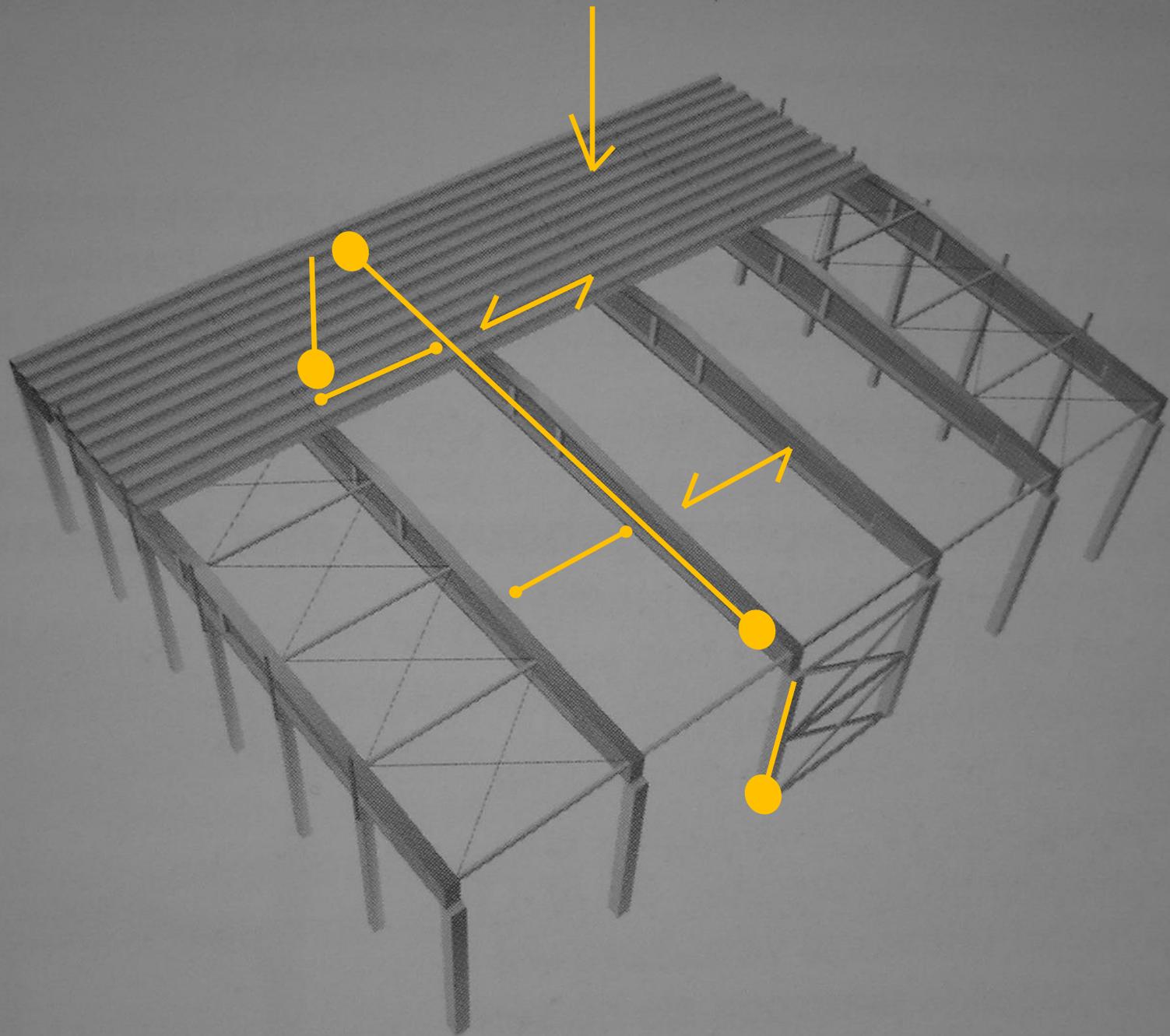


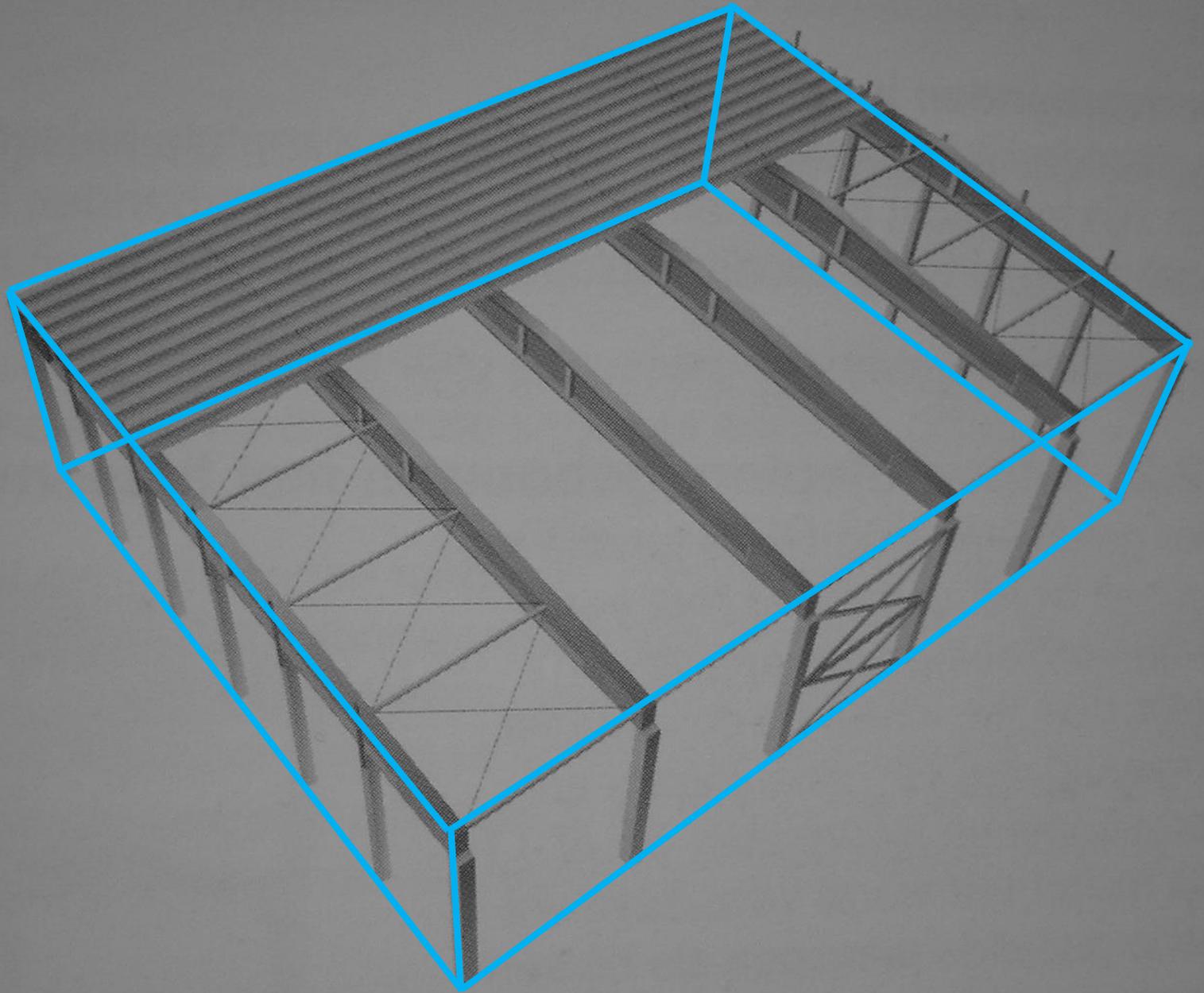
vb: sleutel om buiten open/toe te draaien

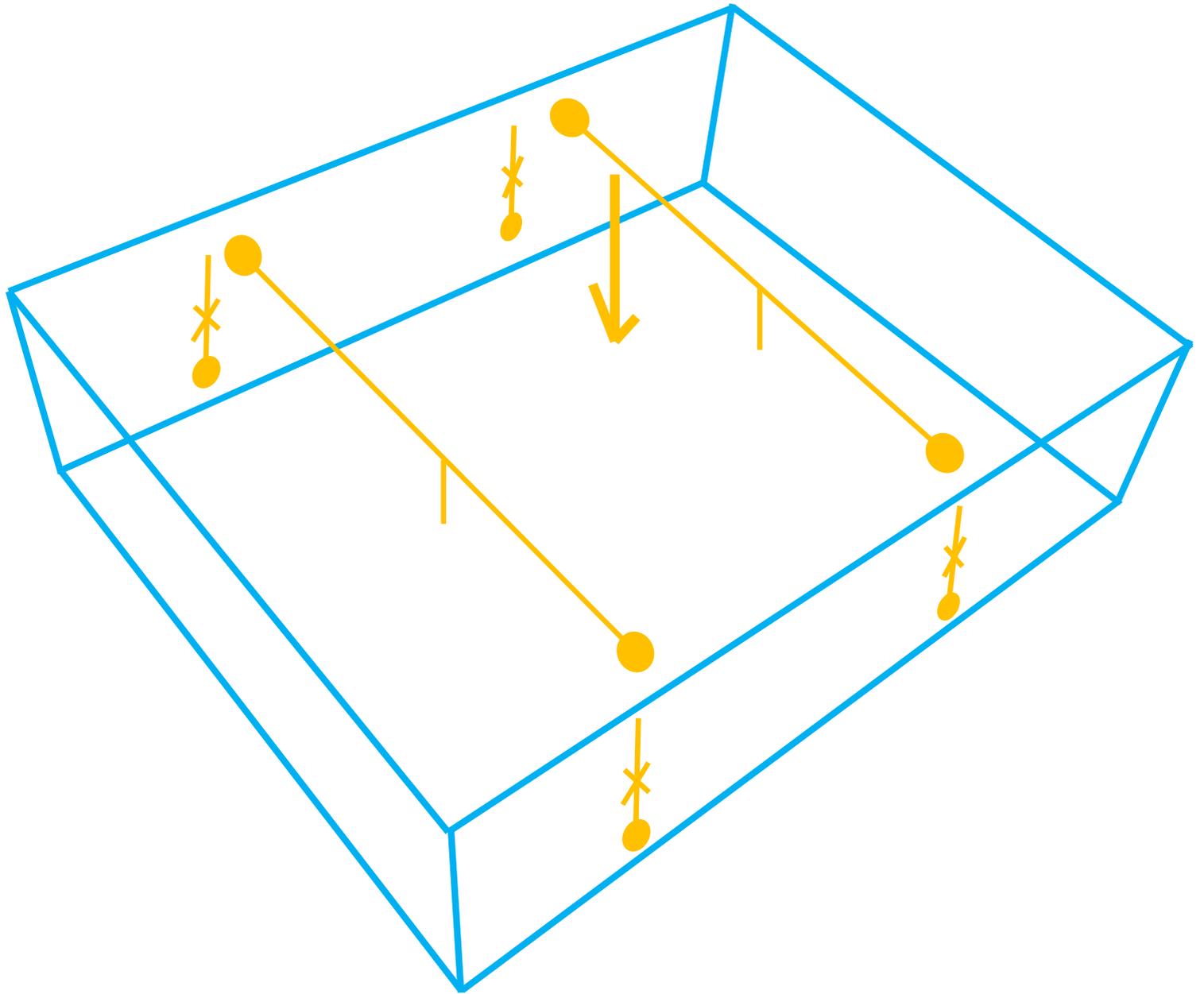


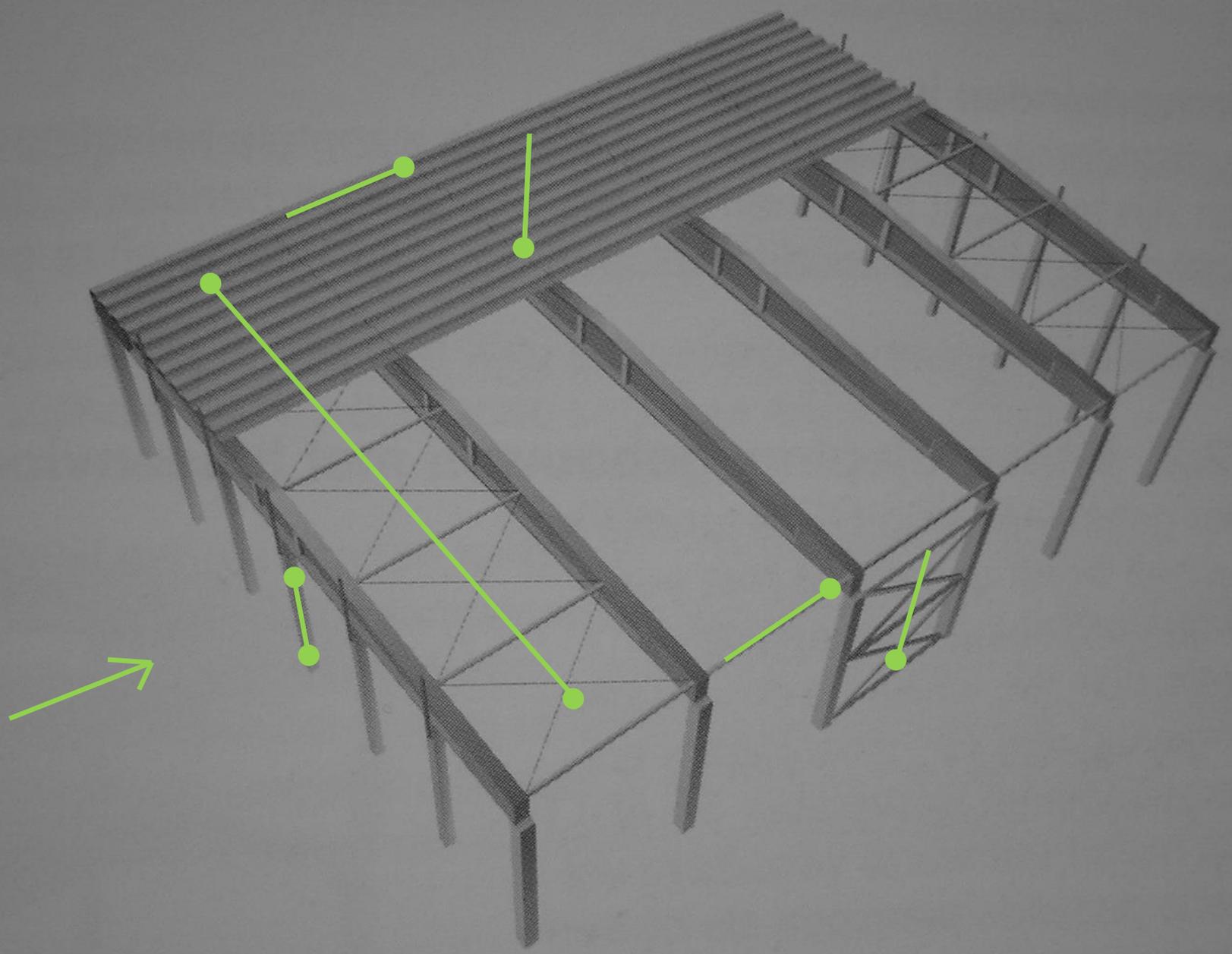


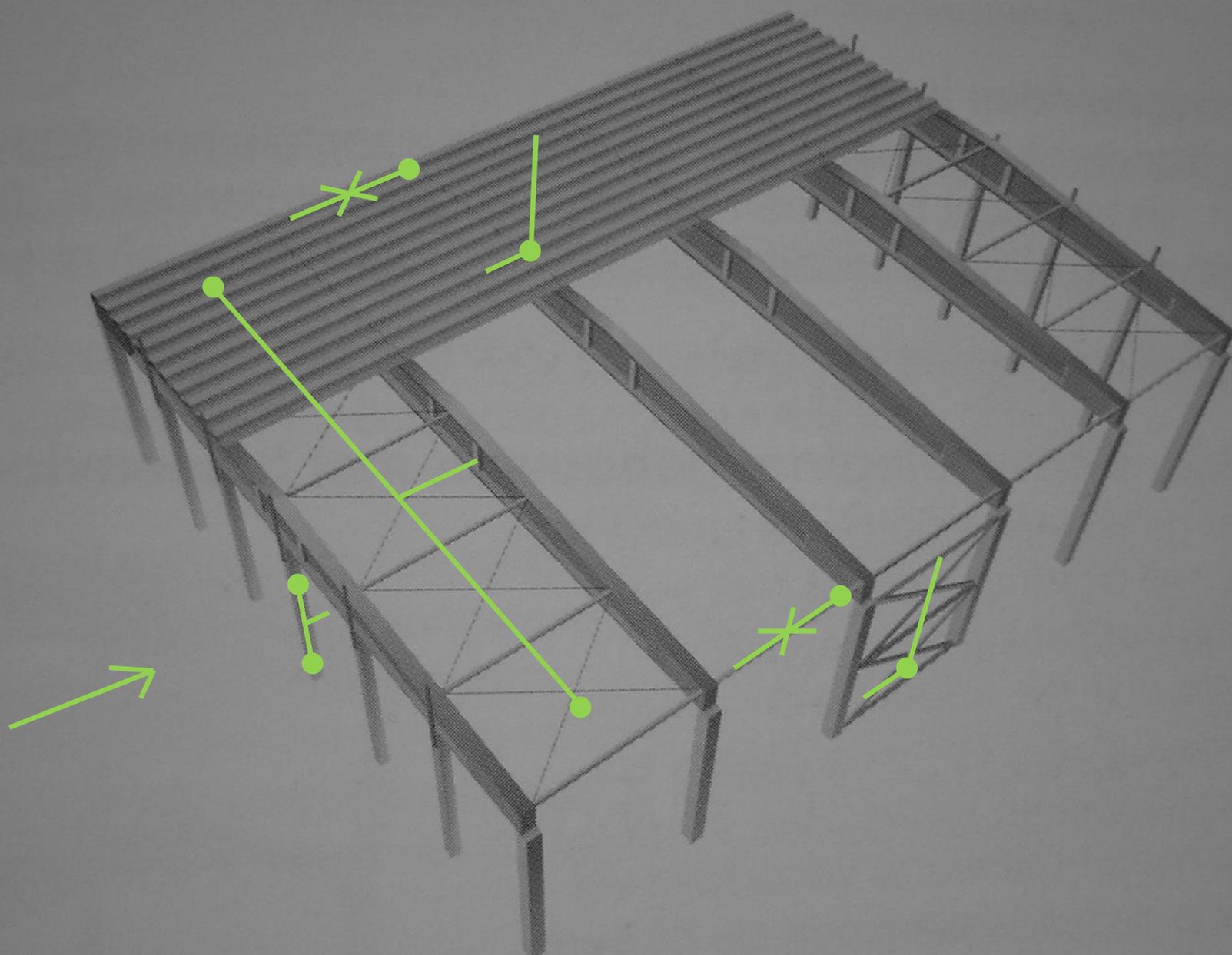


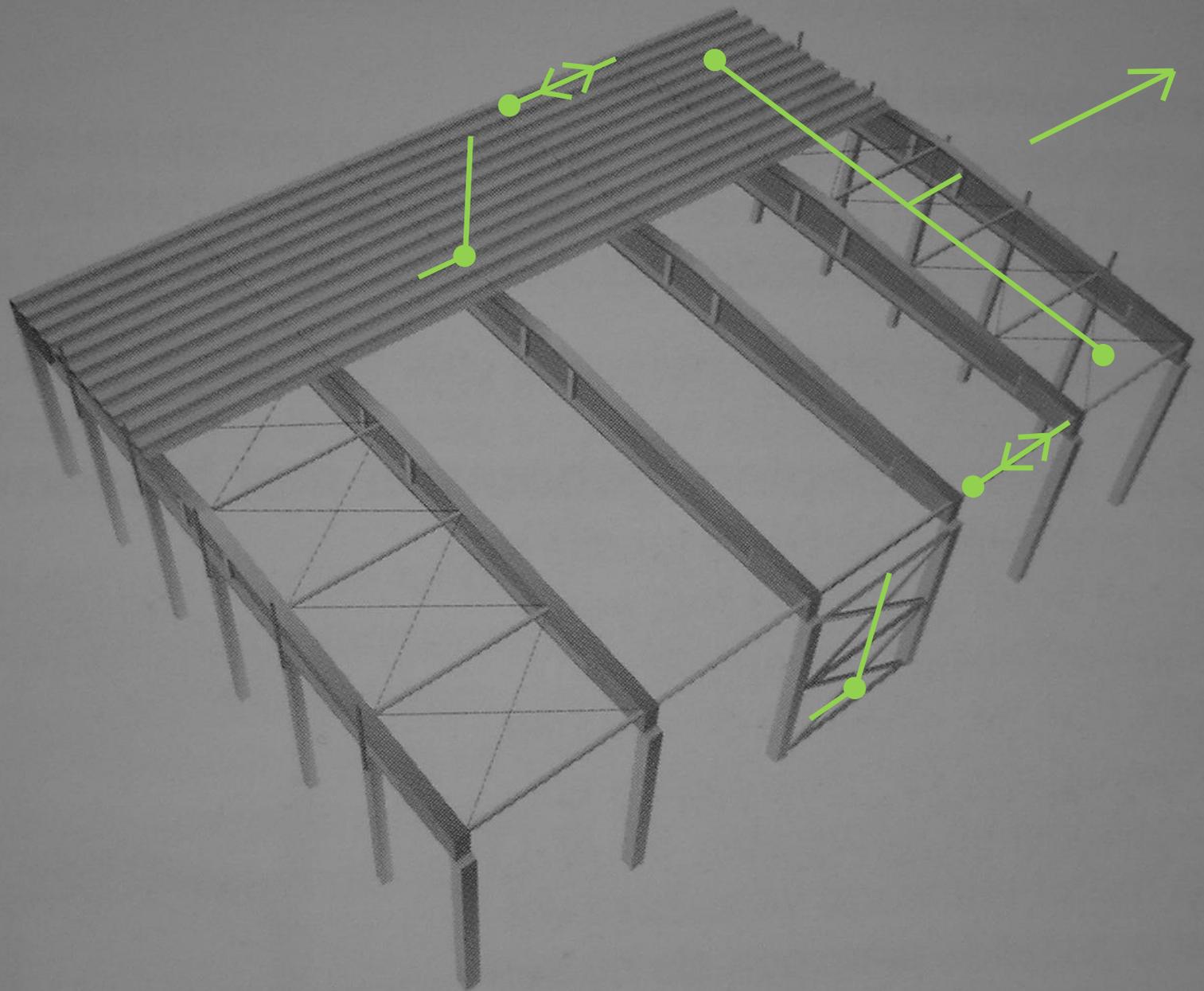


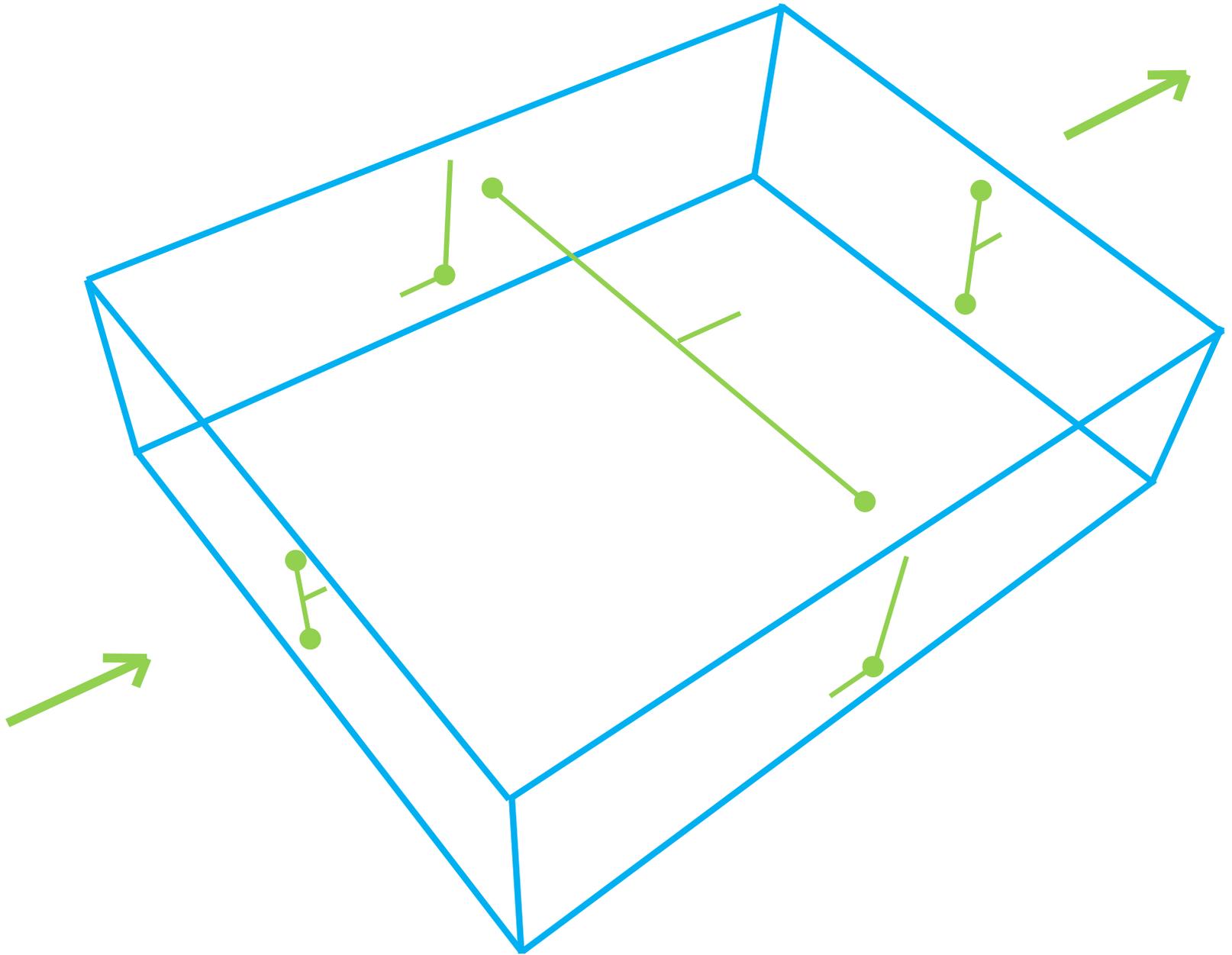


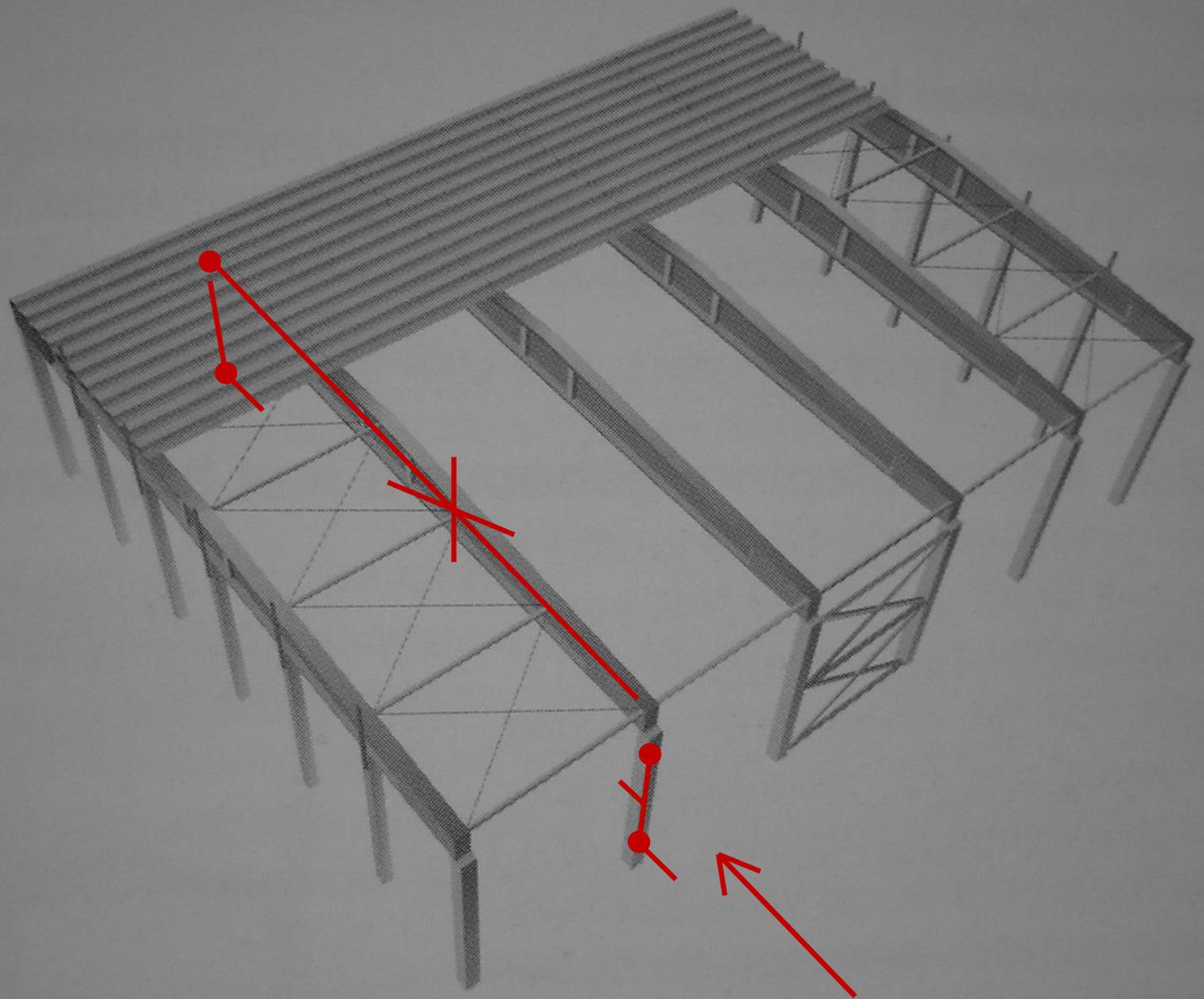


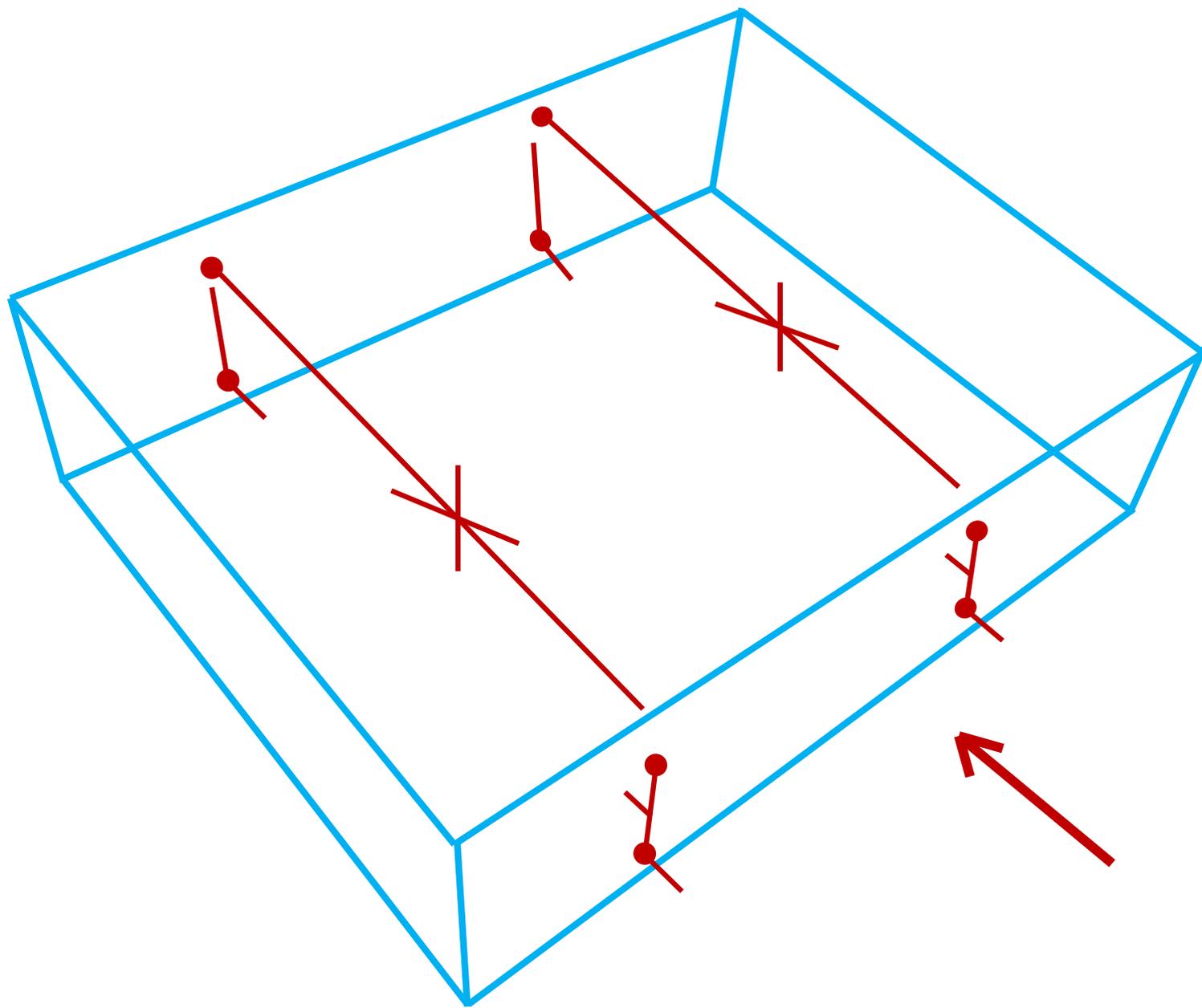


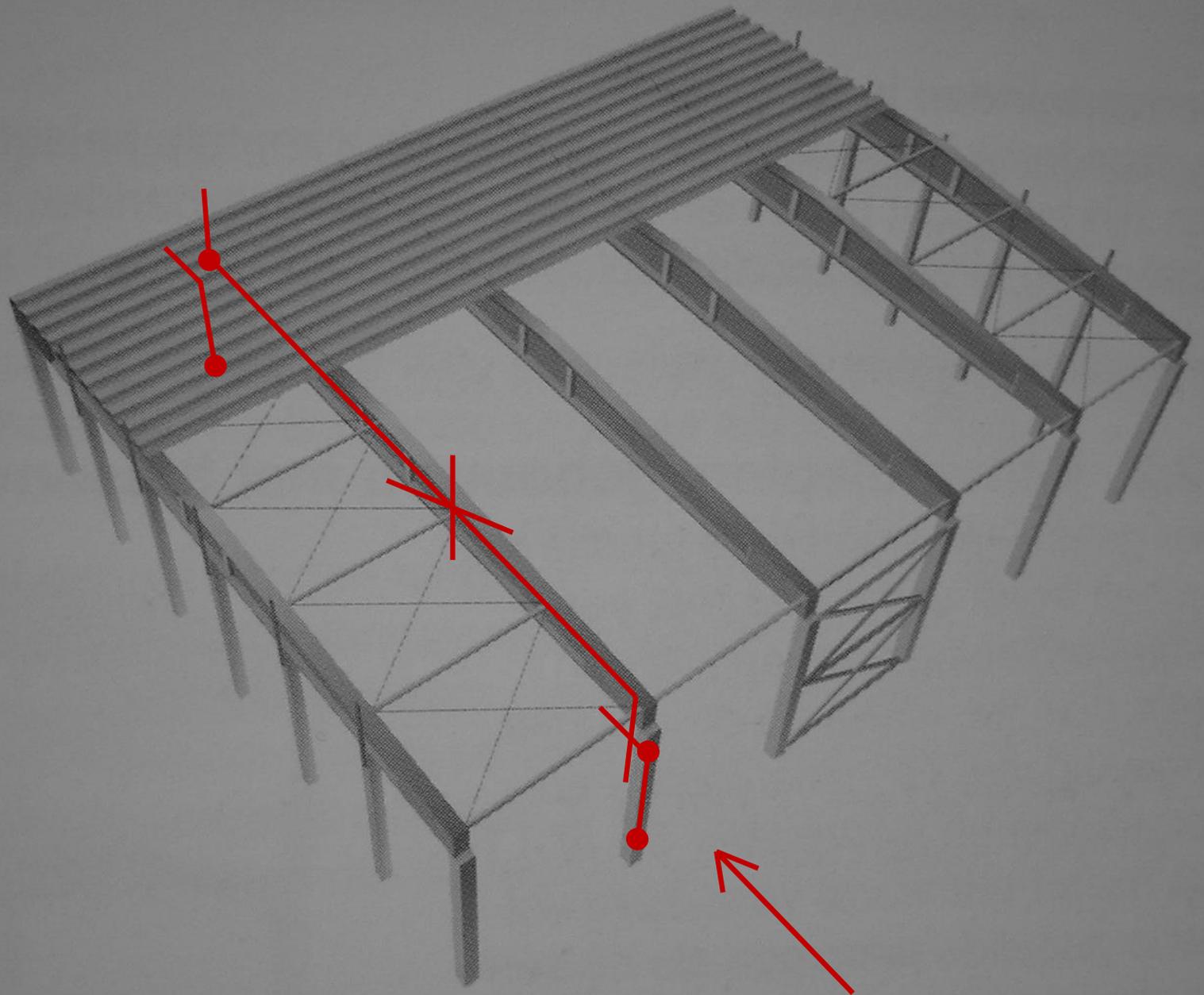


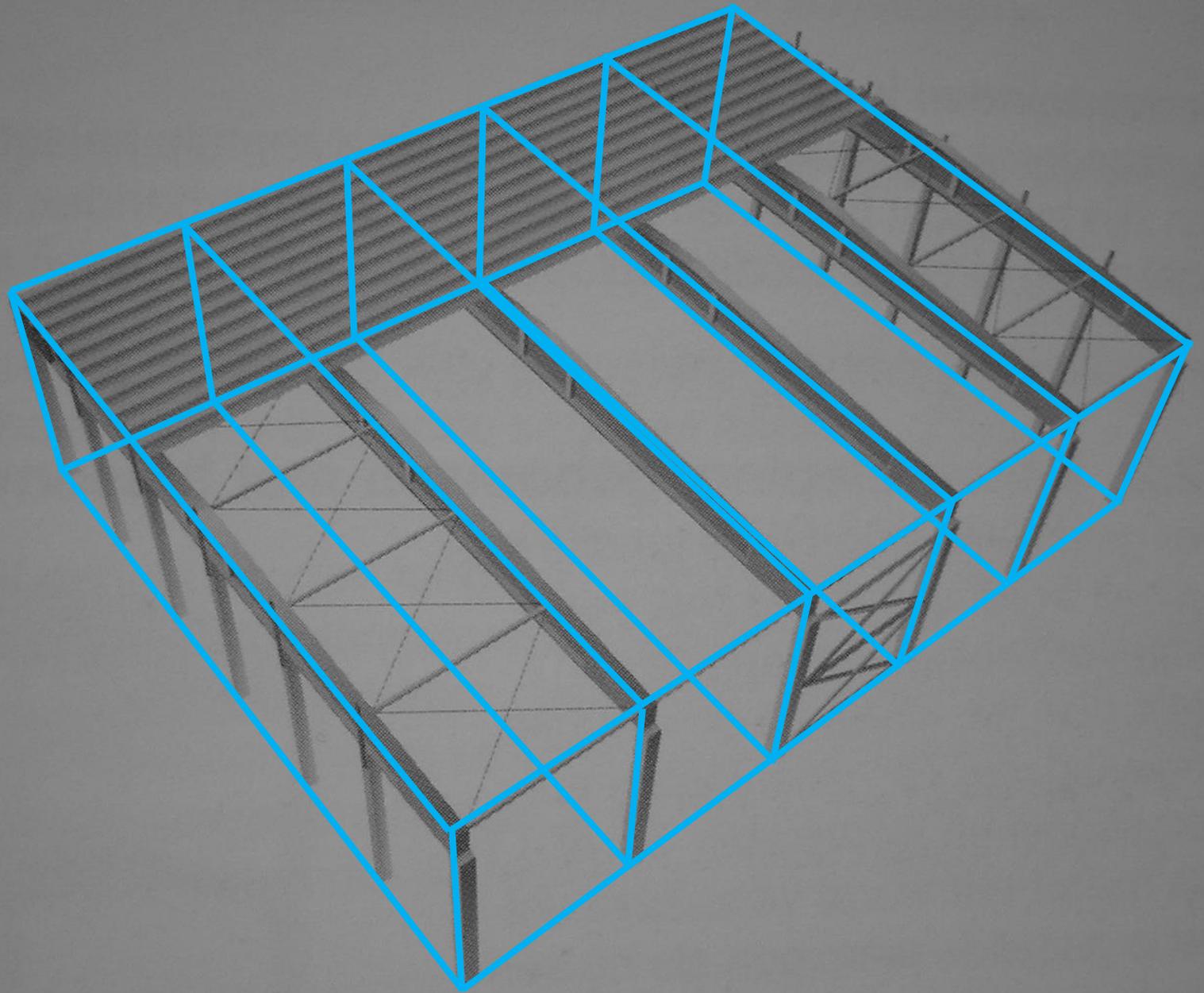


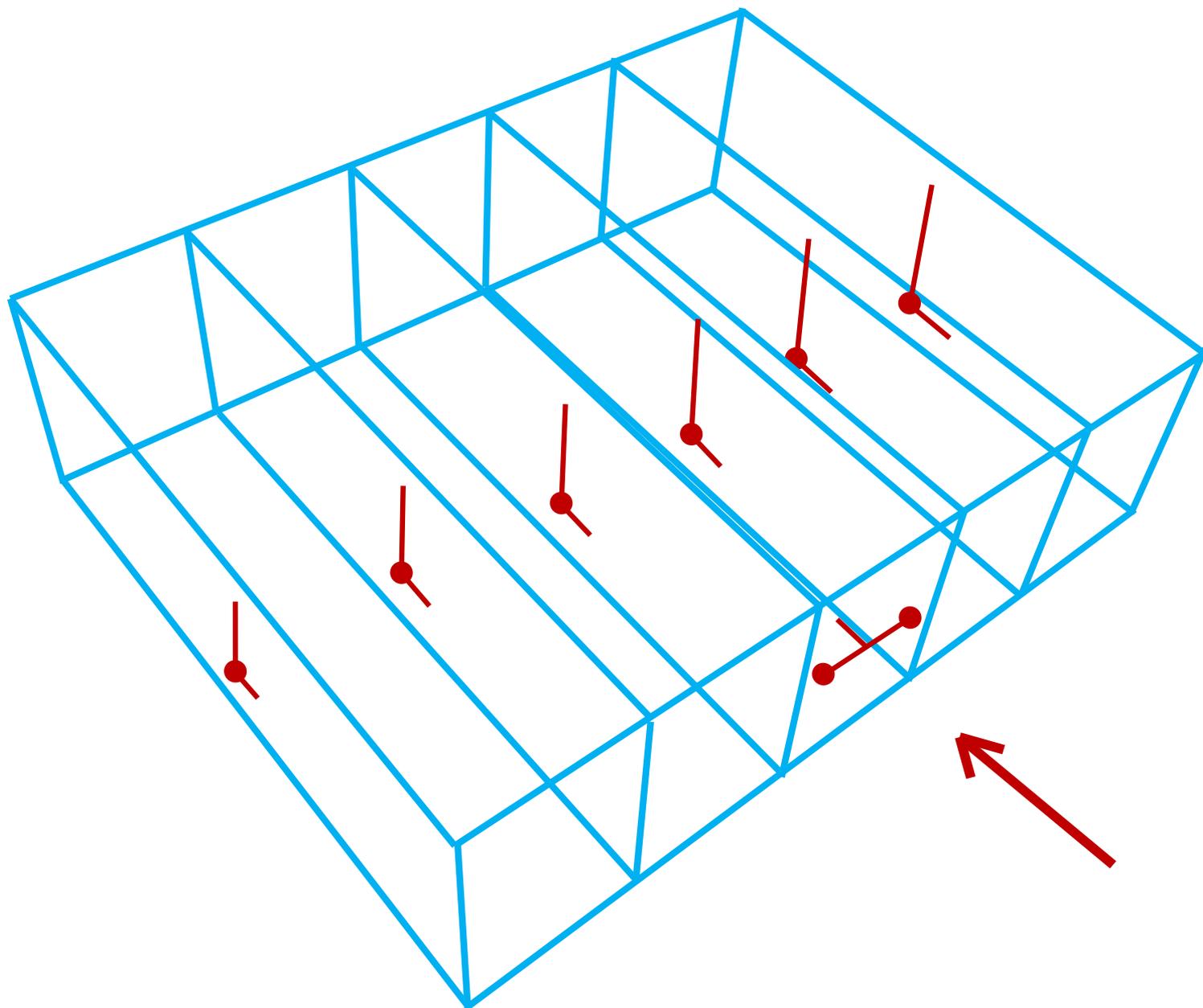


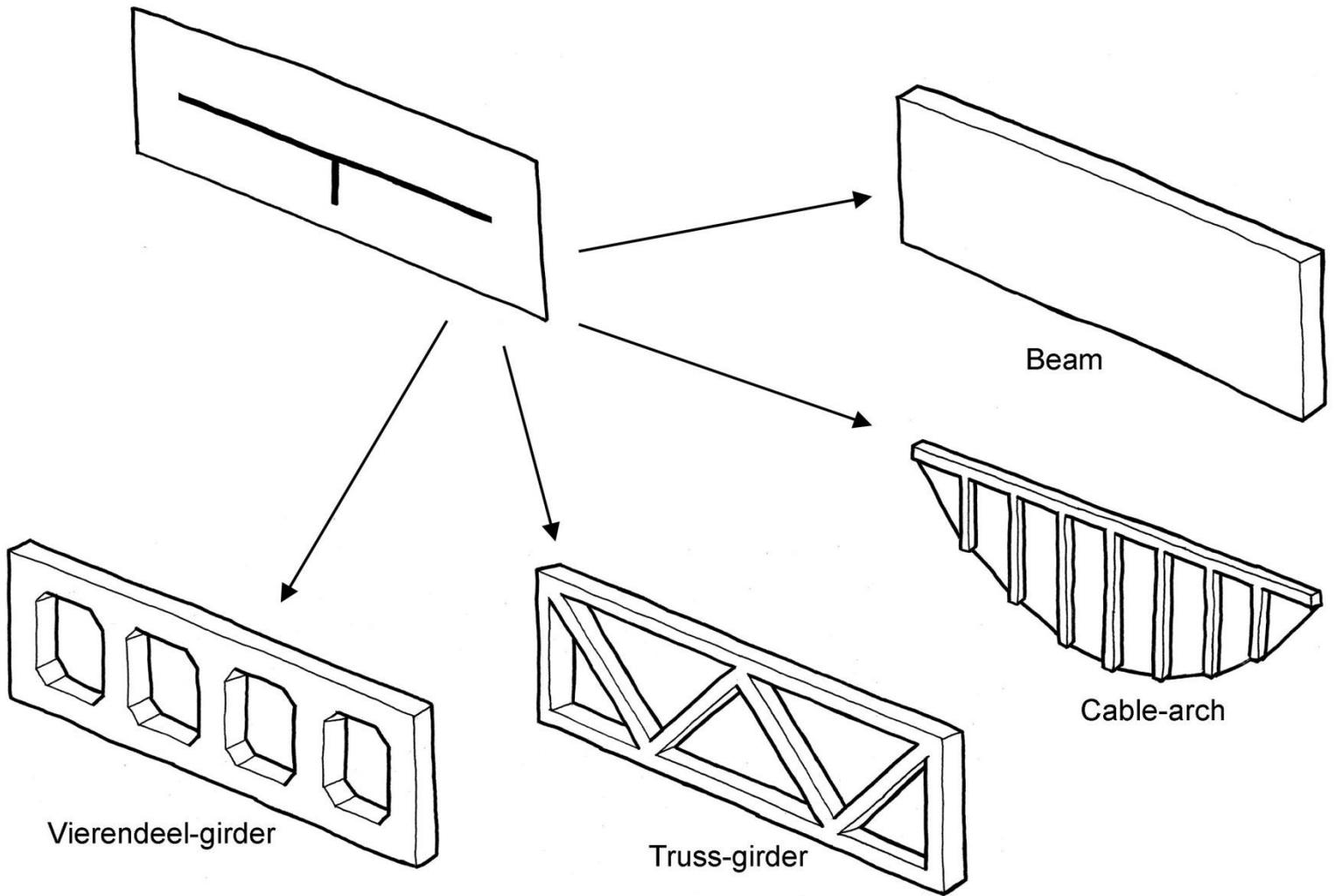






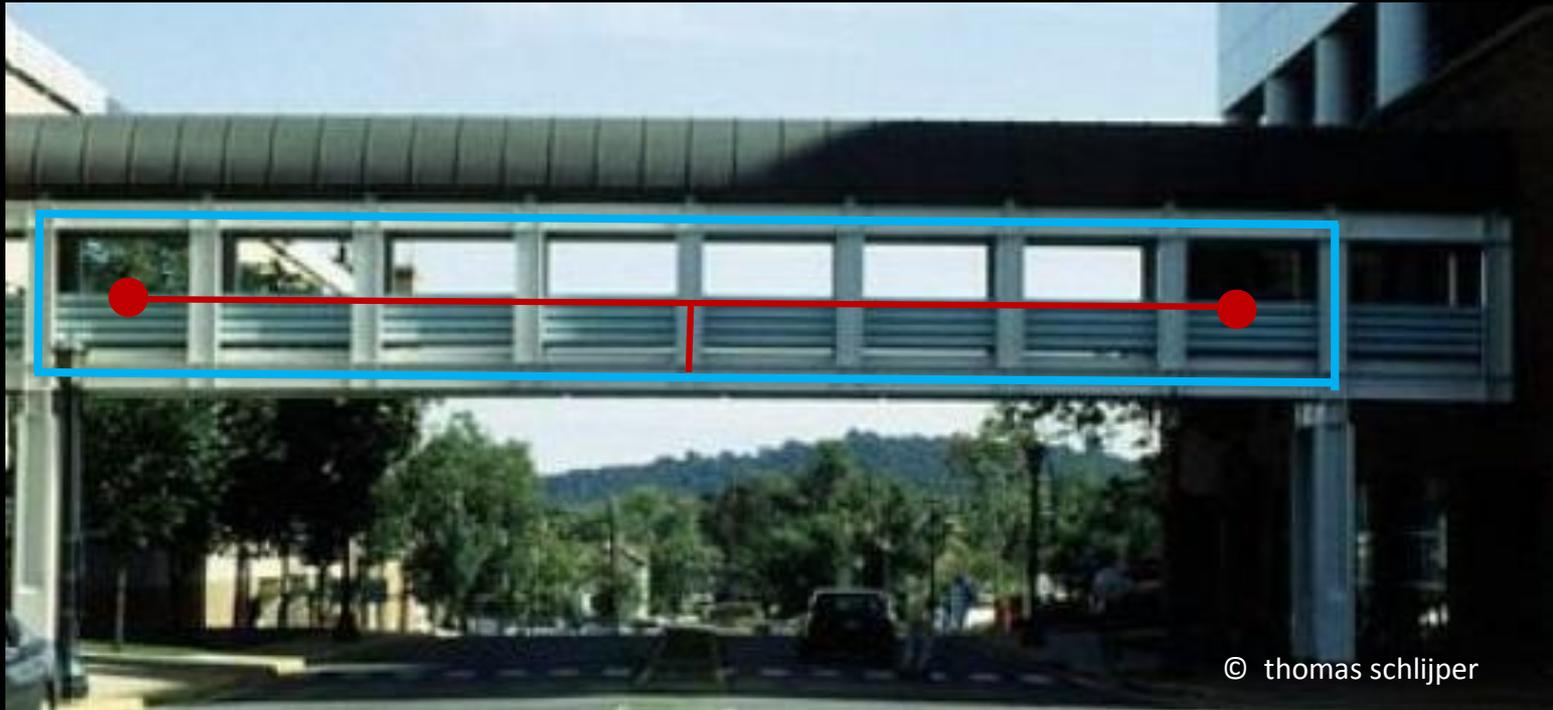








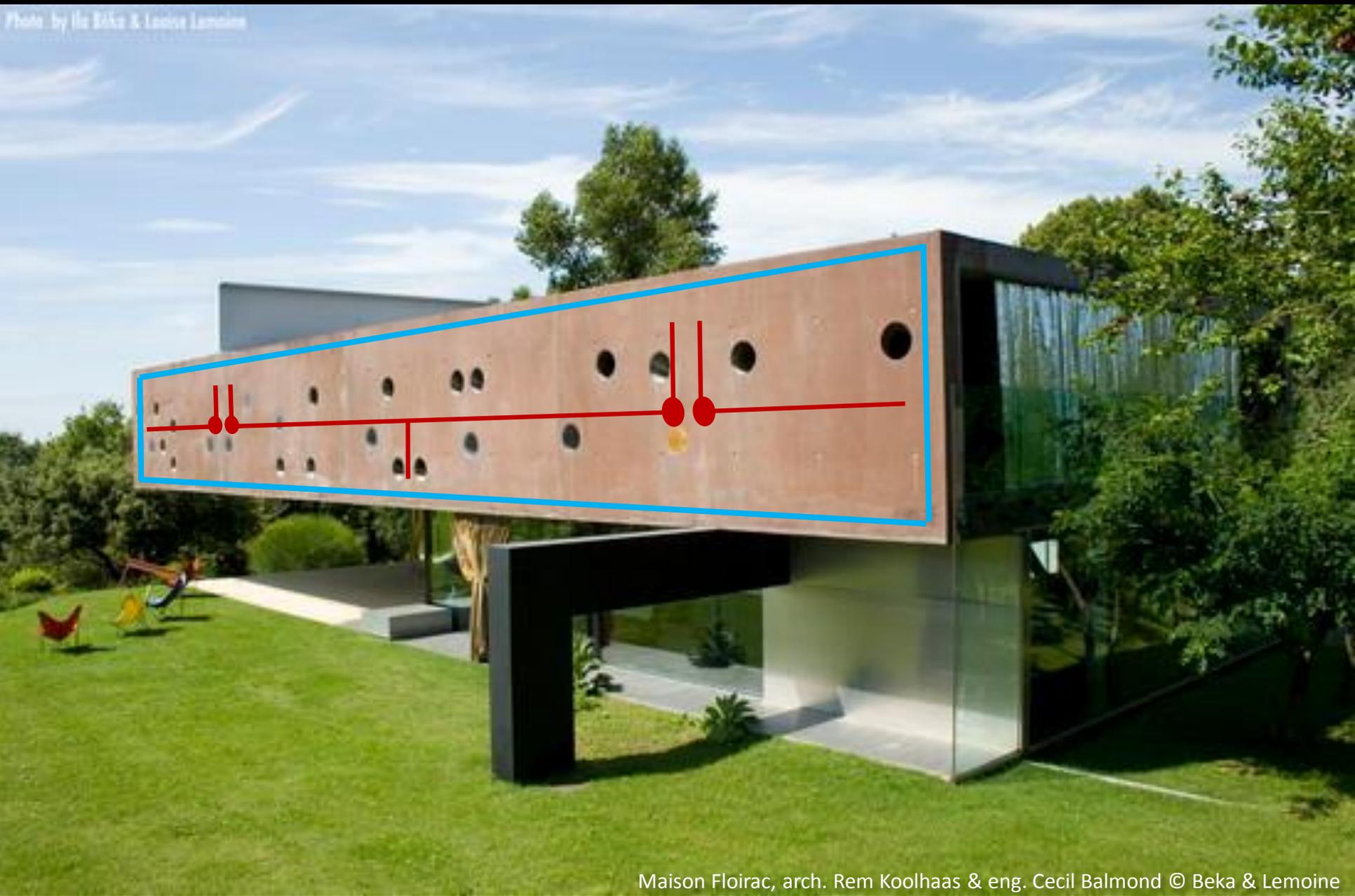
Porsche Museum, Stuttgart, Delugan Meissl Associated Architects © Porsche



© thomas schlijper



Photo by the Beka & Lemoine

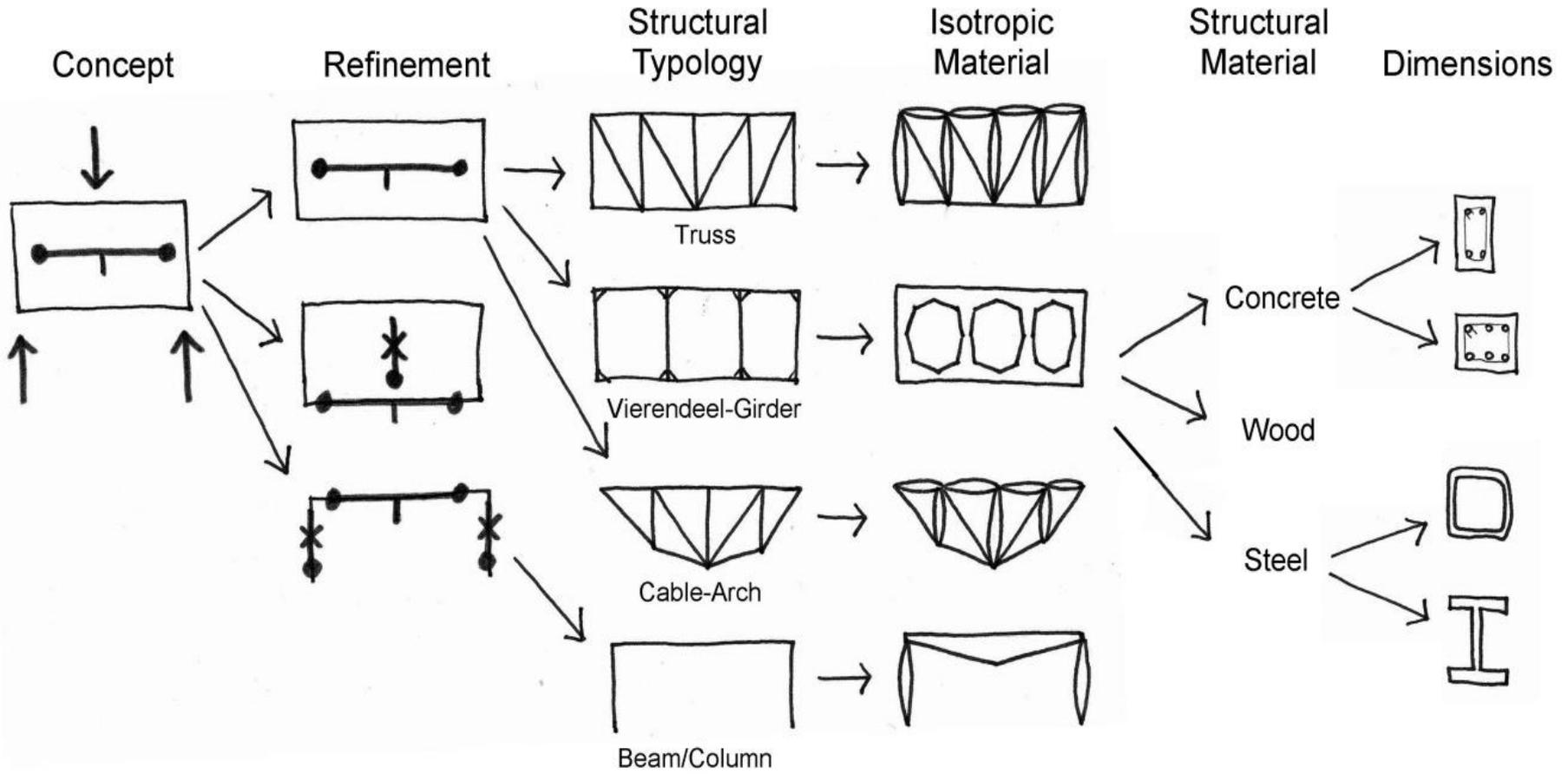


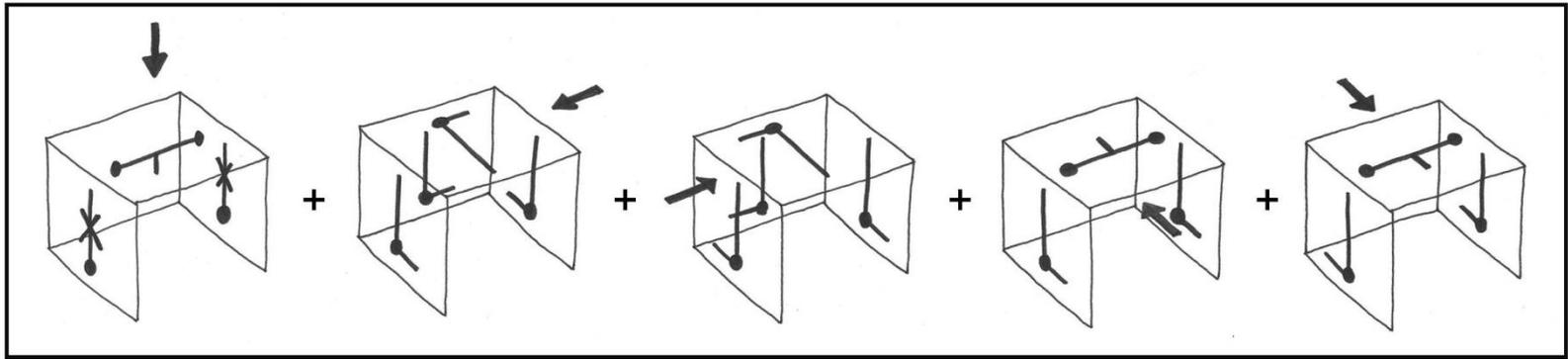
Maison Floirac, arch. Rem Koolhaas & eng. Cecil Balmond © Beka & Lemoine

**ABSTRACT**

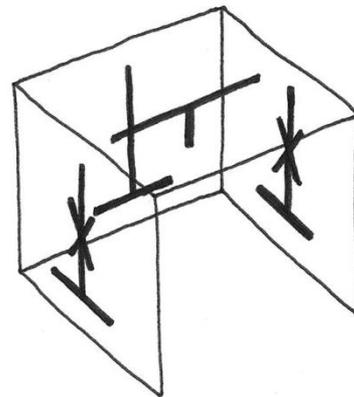


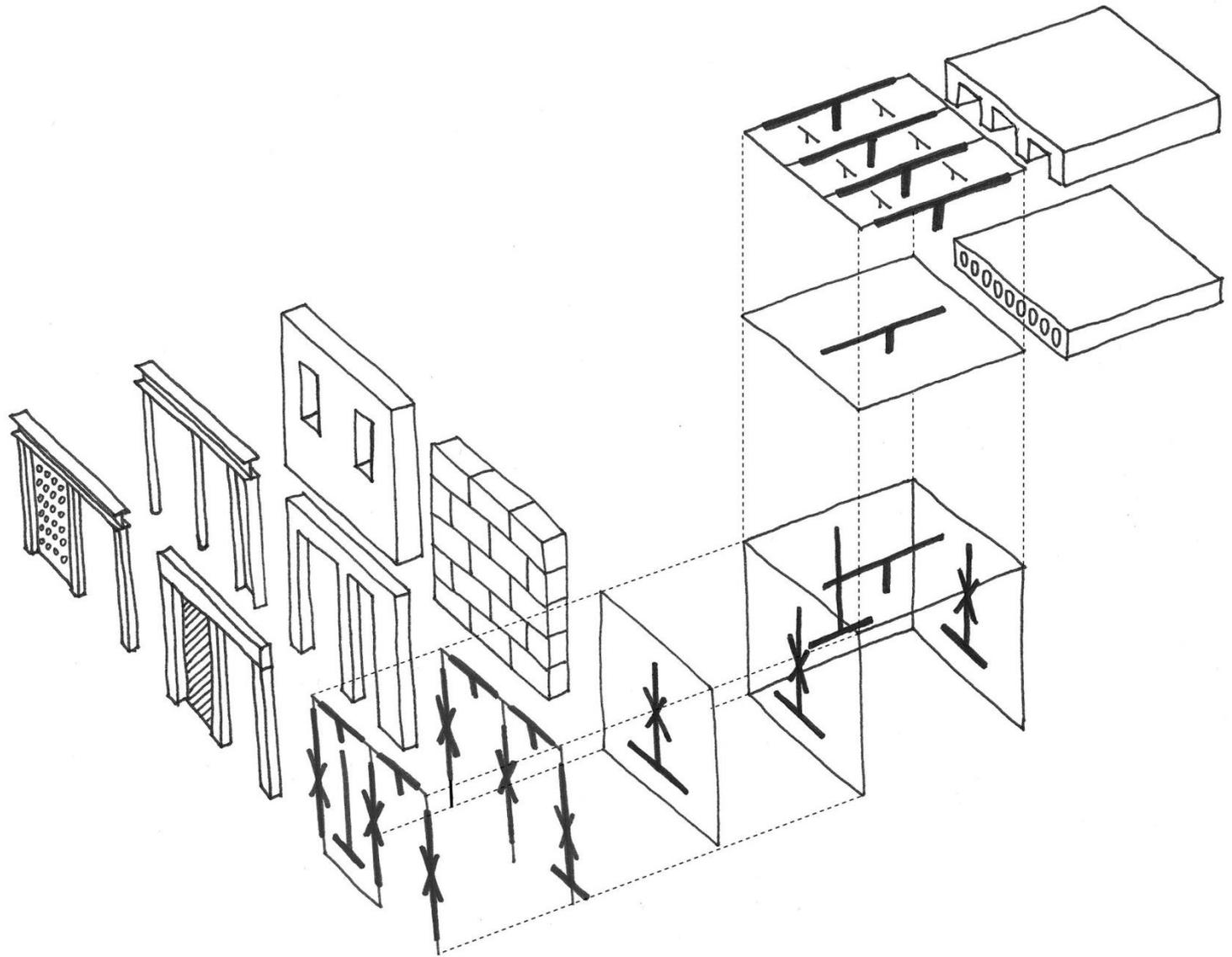
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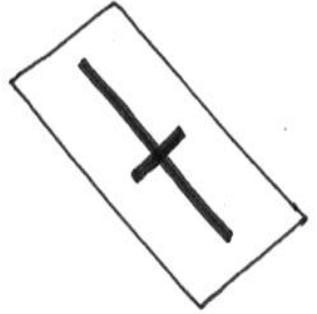
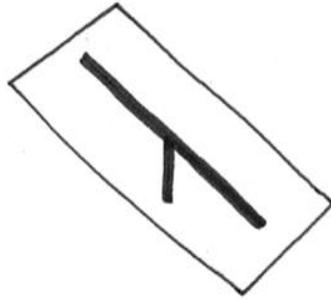
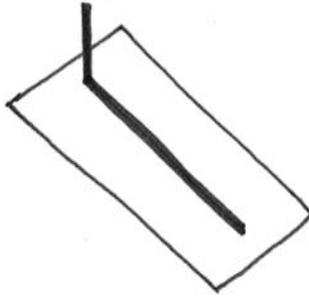
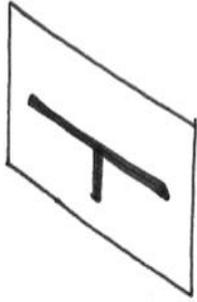
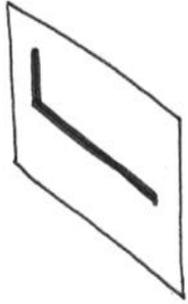


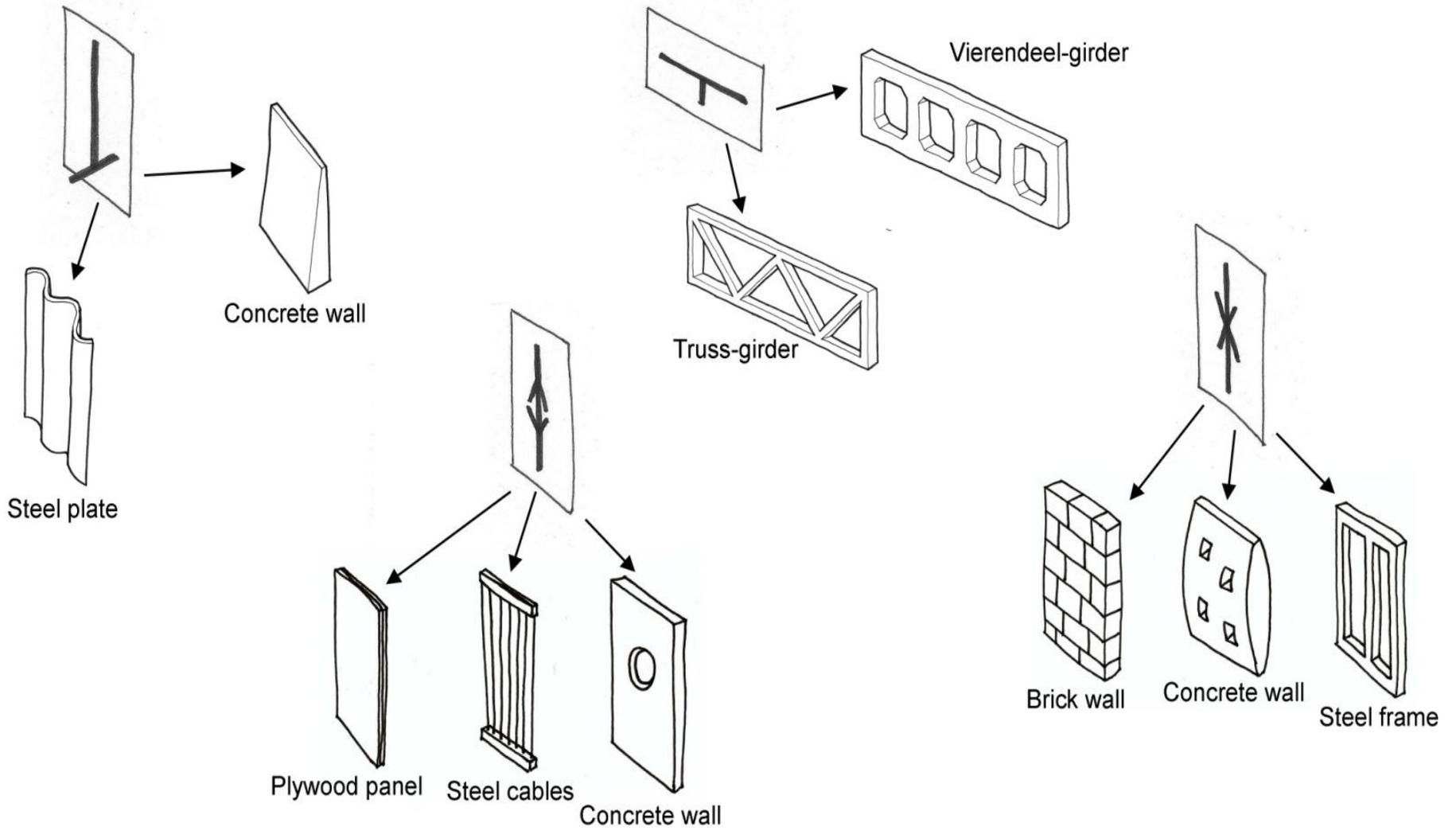


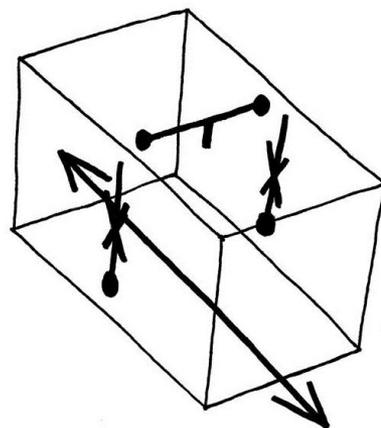
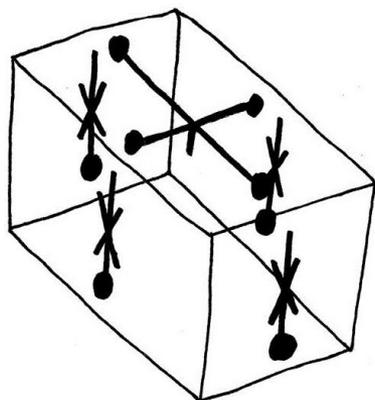
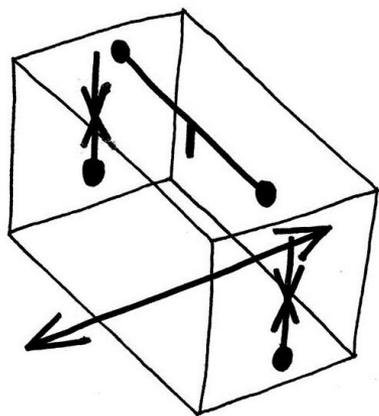
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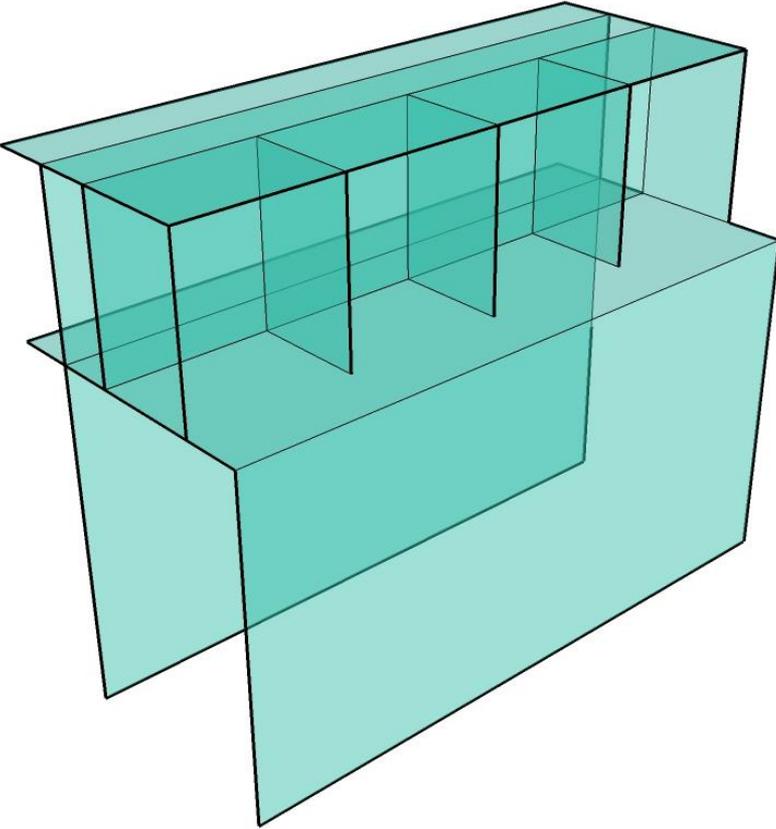


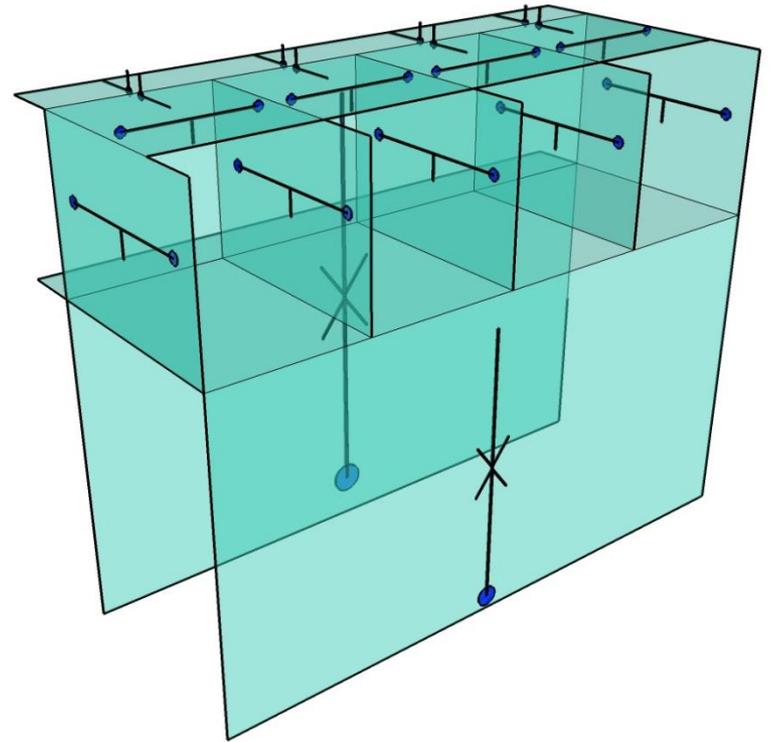
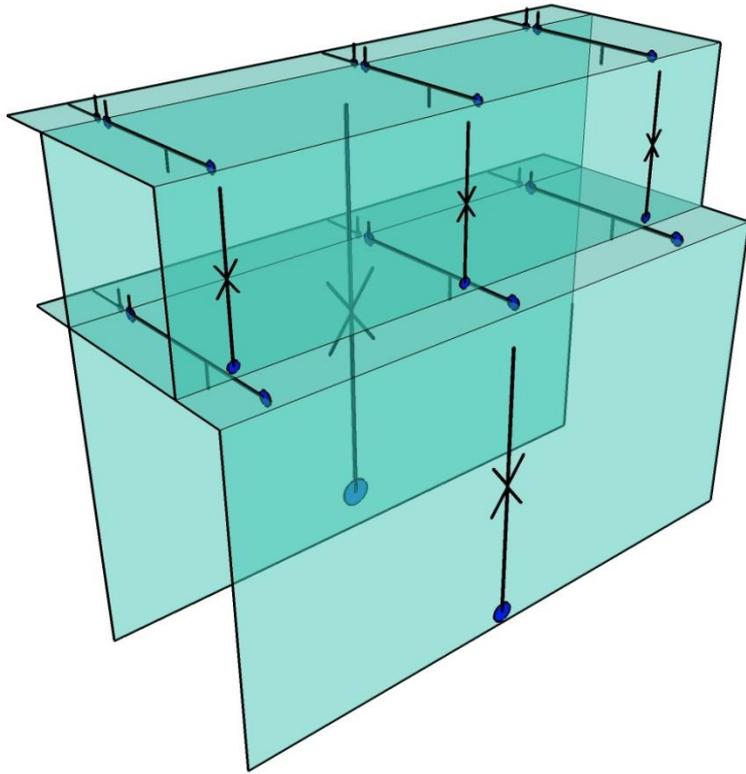


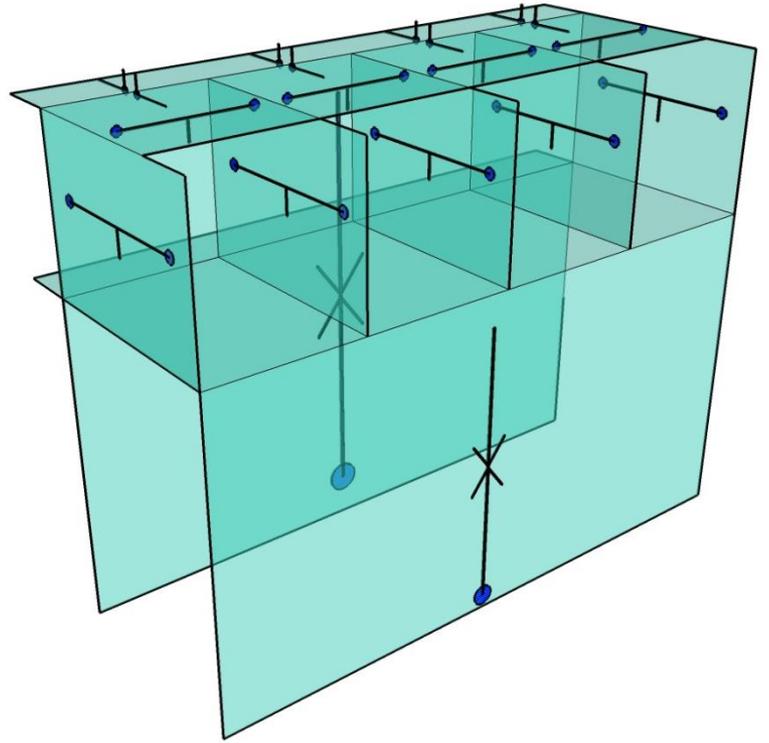
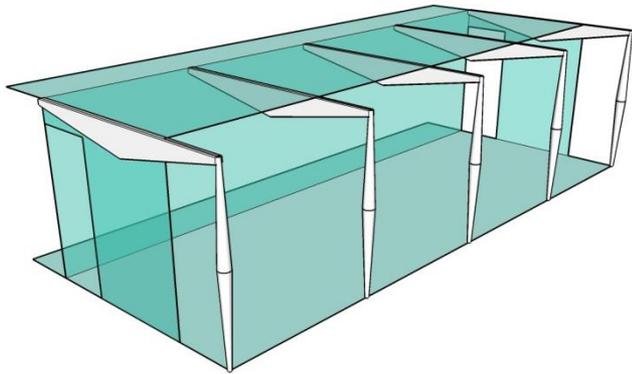
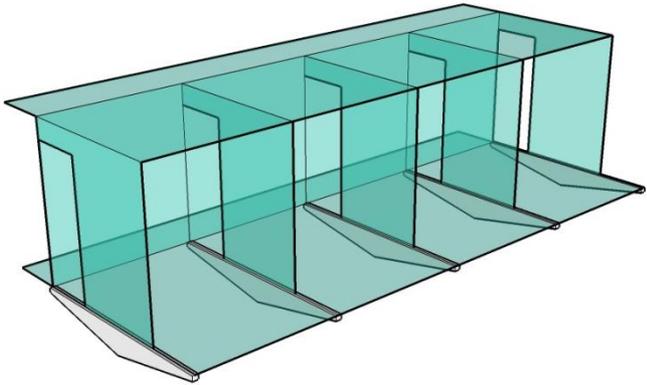






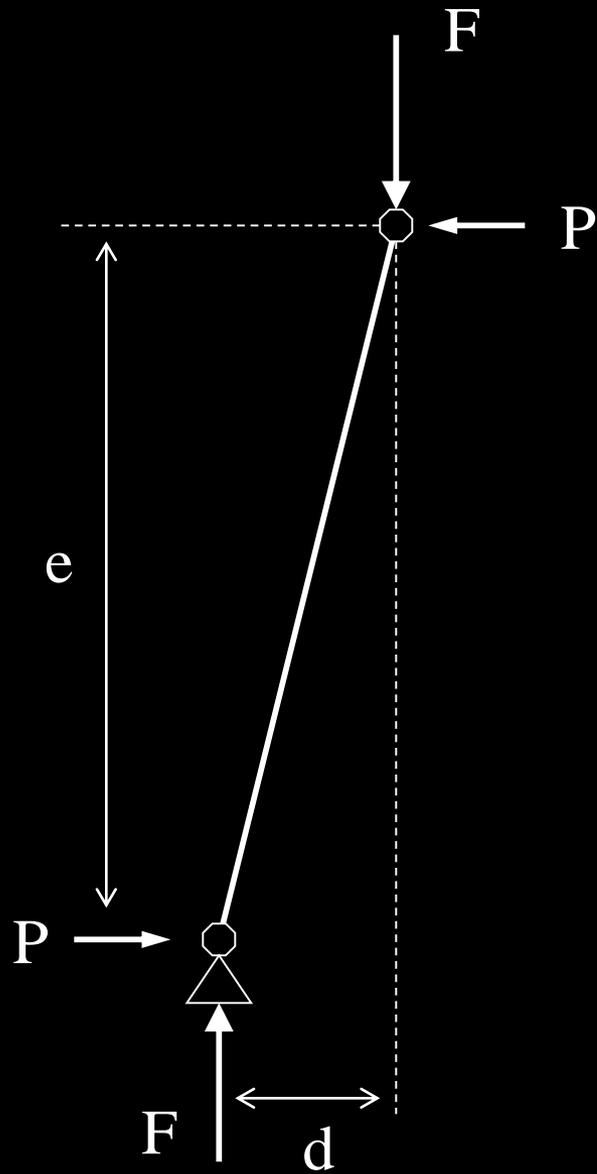




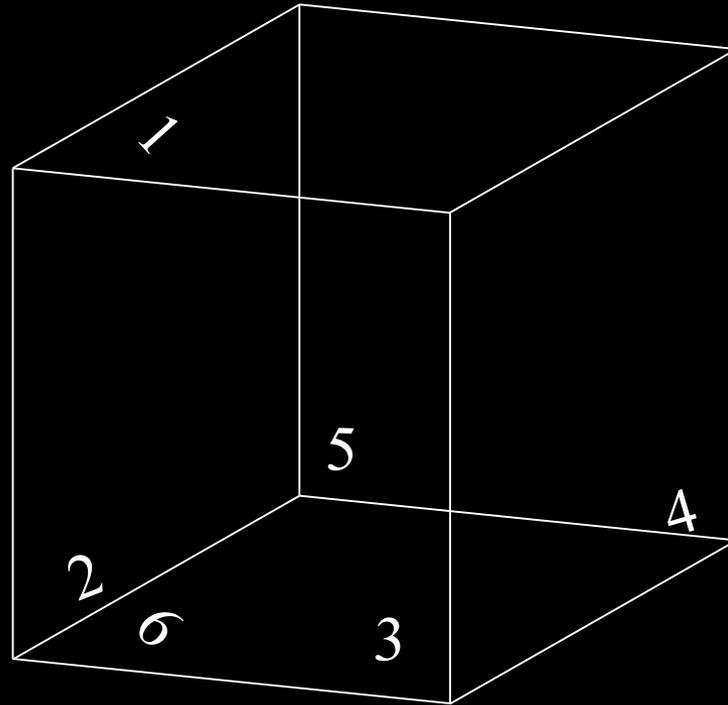


# Horizontal Stability

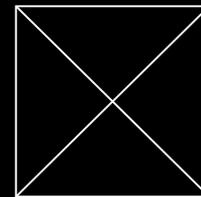




Out of axis:  
 $F.d = P.e$



5 diaphragm surfaces = 1 stable cube





STRUTTED  
=  
VECTOR-ACTIVE



STRUTTED  
=  
VECTOR-ACTIVE





**WOUTERS BOUWSERVICE**  
MECHANISCH - VERBODVINGEN  
Polderlaan 14 Tel: 07673 08 19  
4141 TREMBLO Fax: 07673 7030

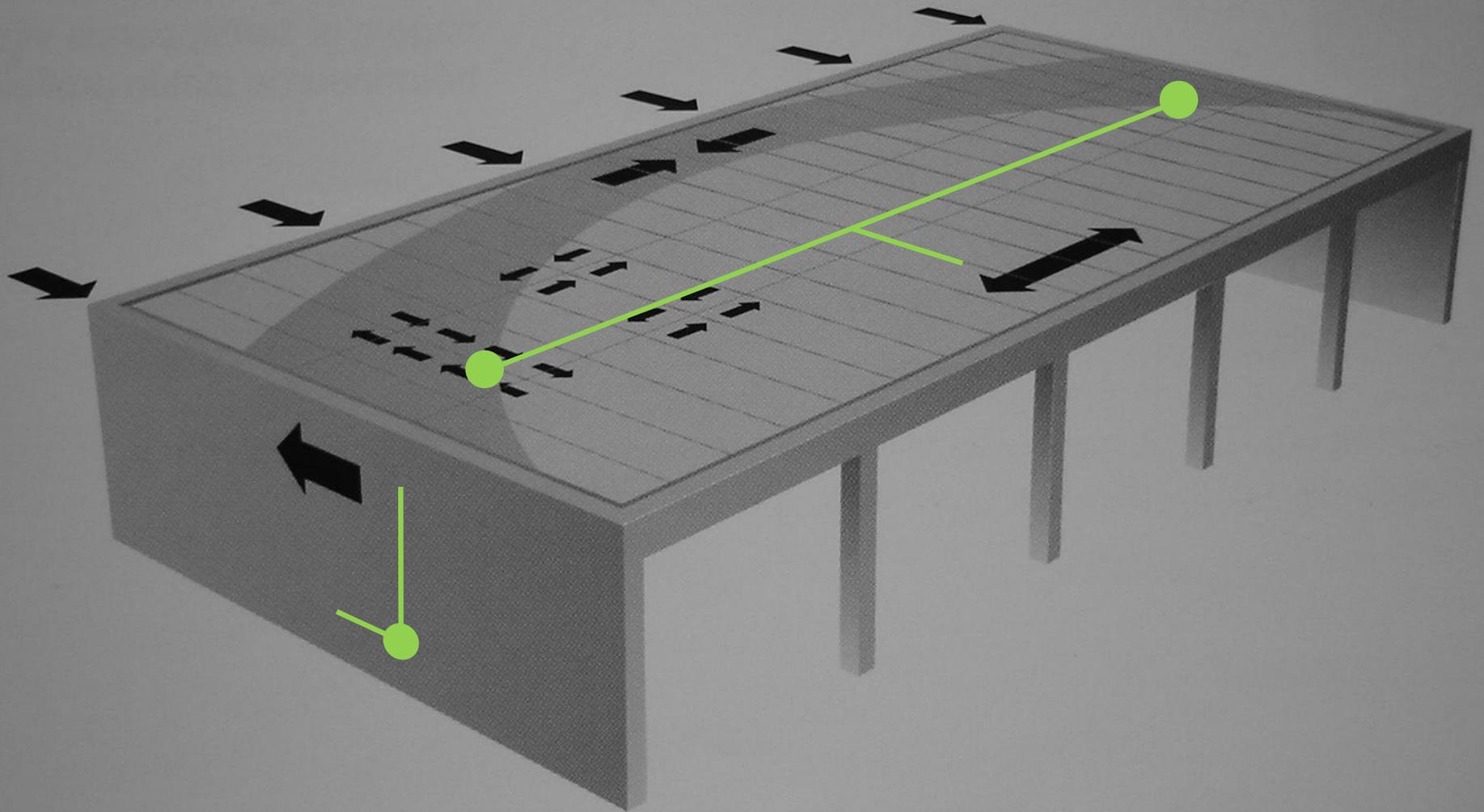
**ANDRÉ GELIS**  
BOUWMEESTER  
L. GELIS  
Tel: 07673 200 00 Fax: 07673 200 00

Stekkerkwaliteit  
technisch vriesvast  
**P DECOSTER, Zn**  
Leverbaar in 2003 Wilsede  
W 04 229077 - 202226

**DECKLEER**  
Leverbaar in 2003 Wilsede  
W 04 229077 - 202226



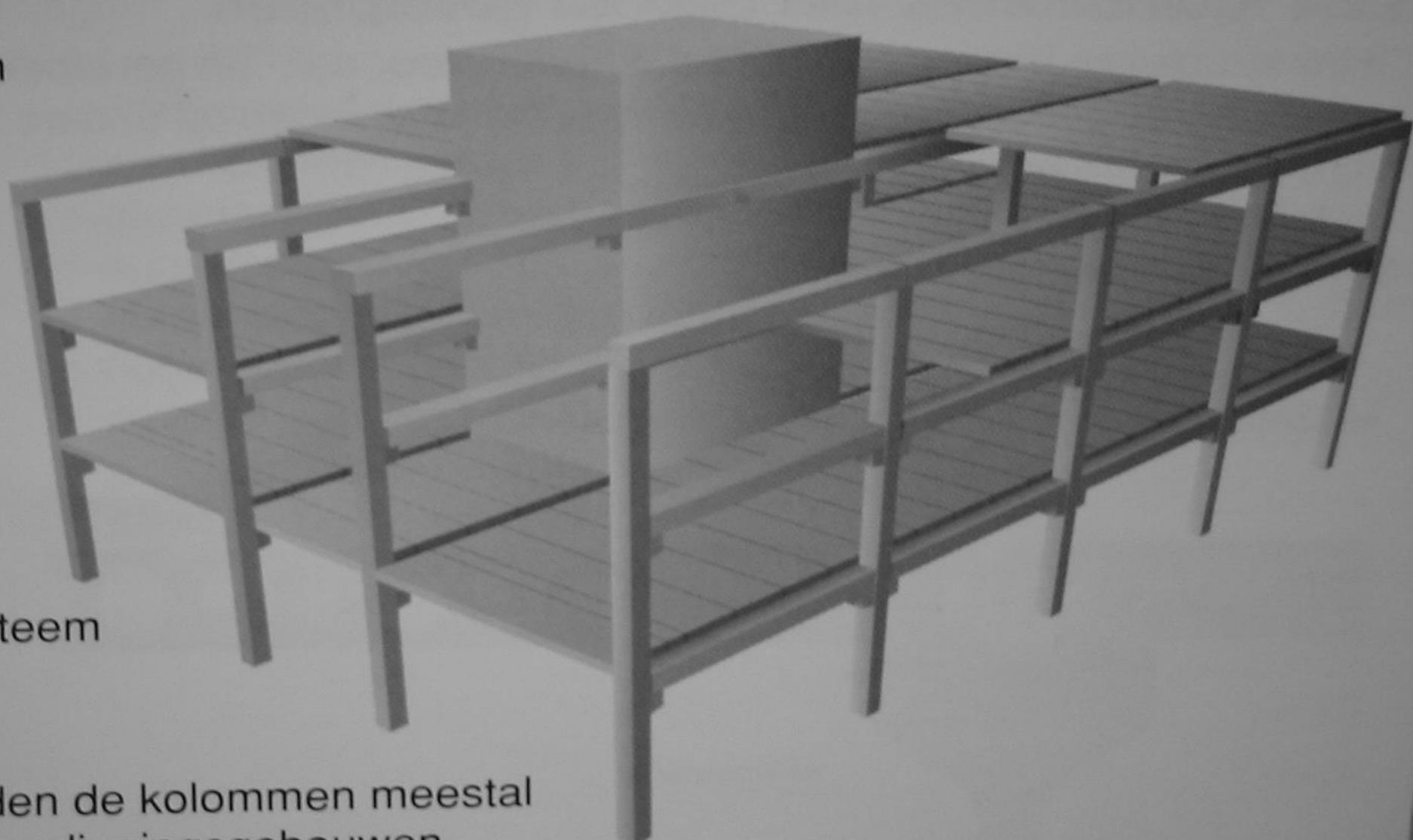
emen in de trekband die voortkomt uit de boogwerking in de vloer en uit de wigwerking  
huifkrachten in de voegen ( $\pm 15\%$  van de totale langsschuifkracht in de voeg). De horiz  
vorden dan per verdieping afgeleid naar de stijve delen die de momenten overbrengen







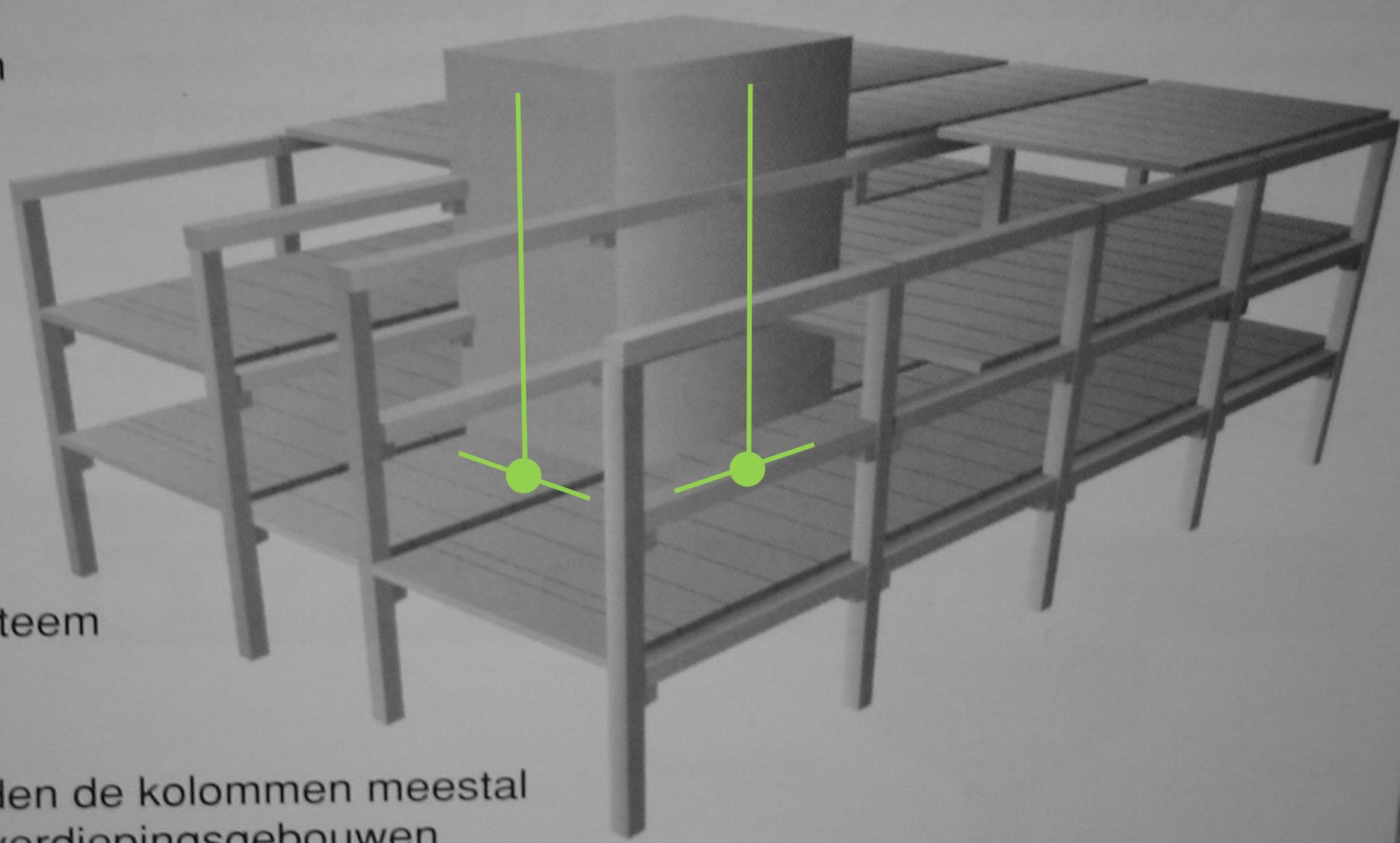
n  
n



steem

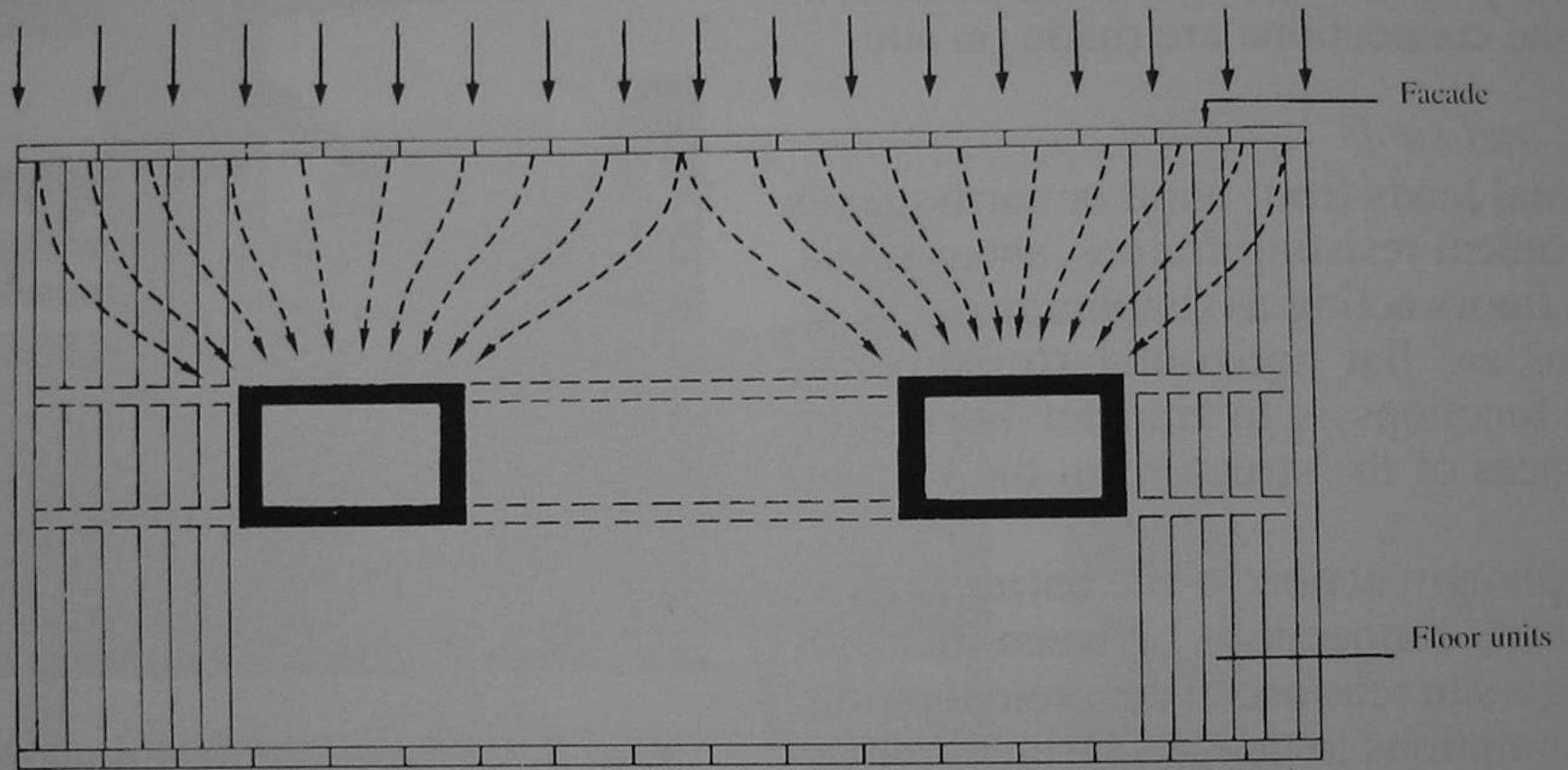
den de kolommen meestal  
verdiepingsgebouwen.

n  
n



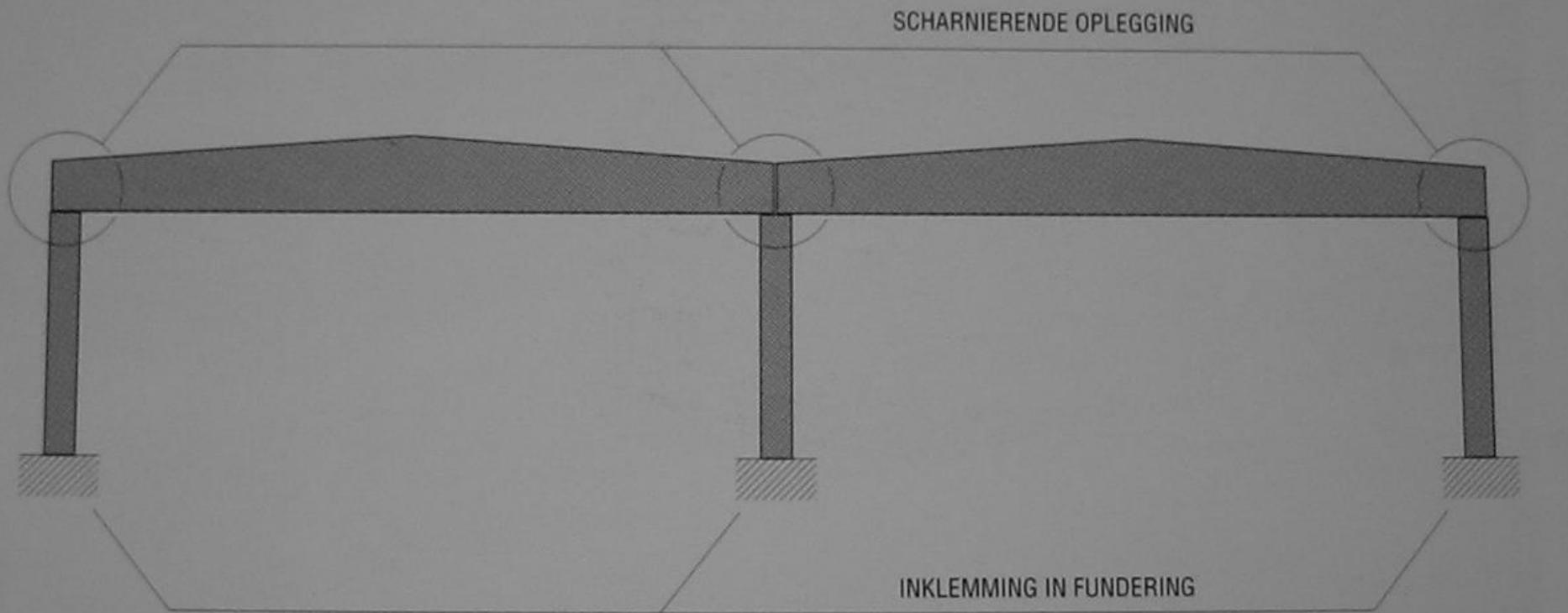
steem

den de kolommen meestal  
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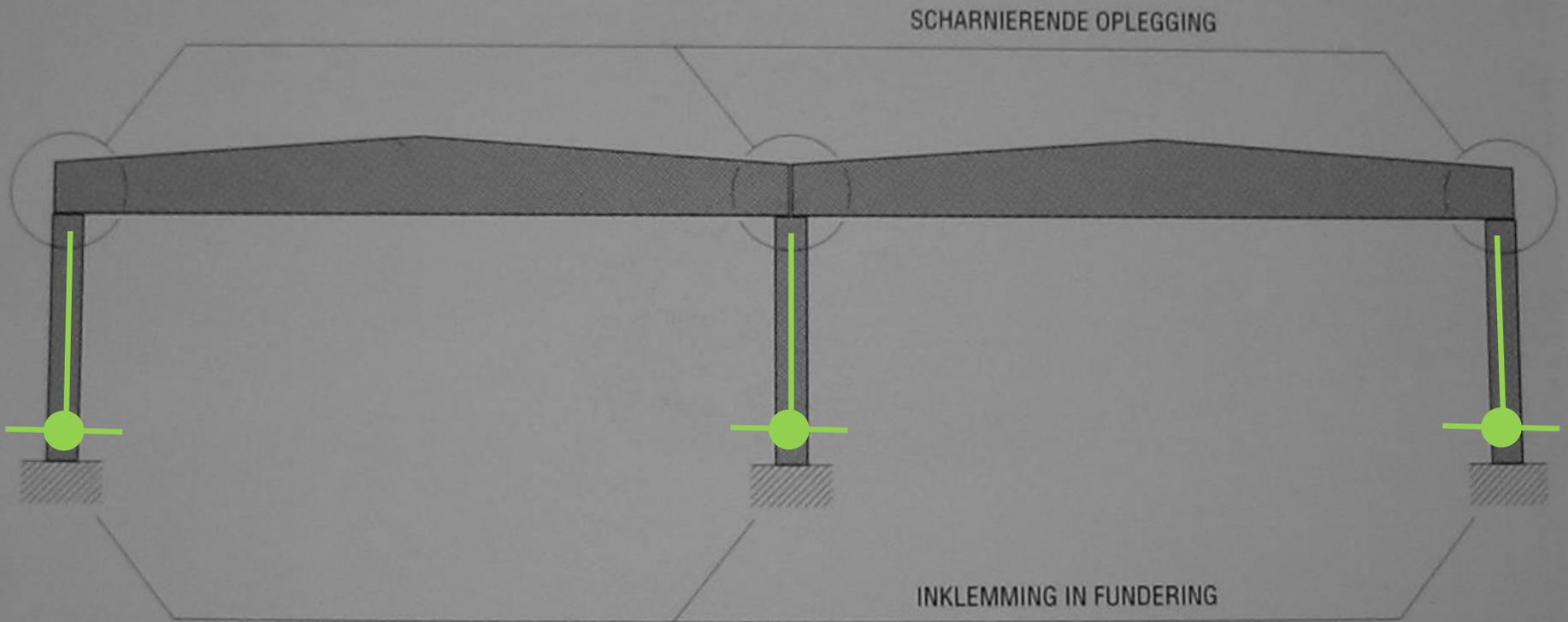
*Fig. 4.14 Principle of diaphragm action in precast floors and roofs*





© Ergon

**NON STRUTTED = SECTION-ACTIVE**

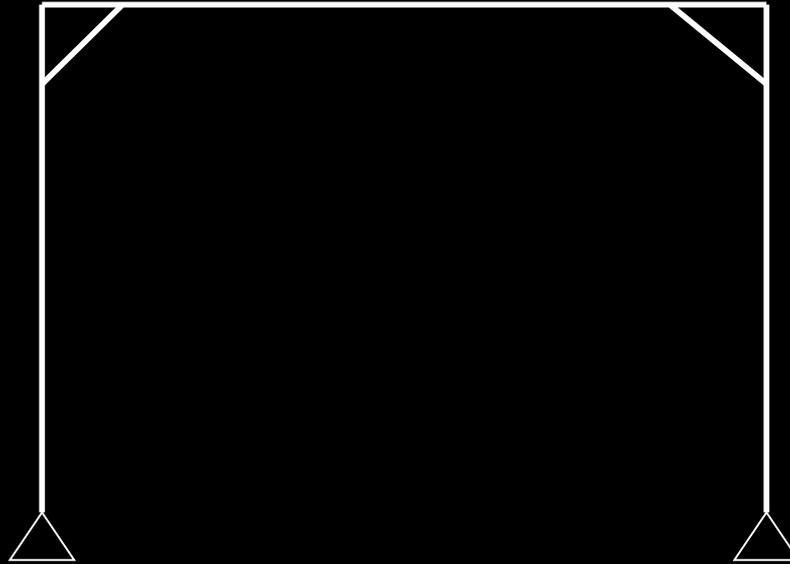


NON STRUTTED = SECTION-ACTIVE



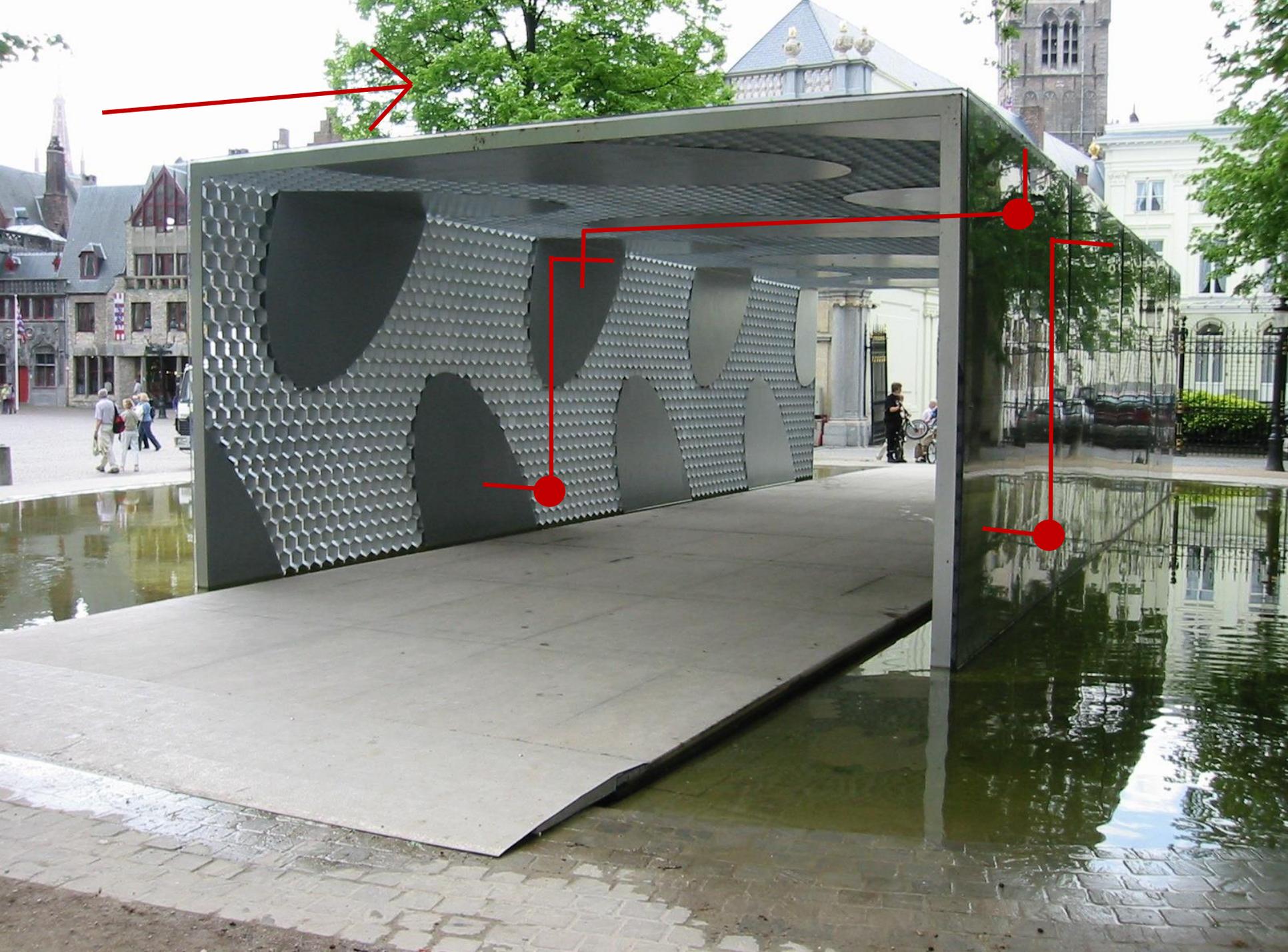
Expo roof, Hannover, Herzog + Partner © Luyten

# Portal Frame





Pavilion, Bruges, Toyo Ito© Luyten





Pavilion, Bruges, Toyo Ito© Luyten



