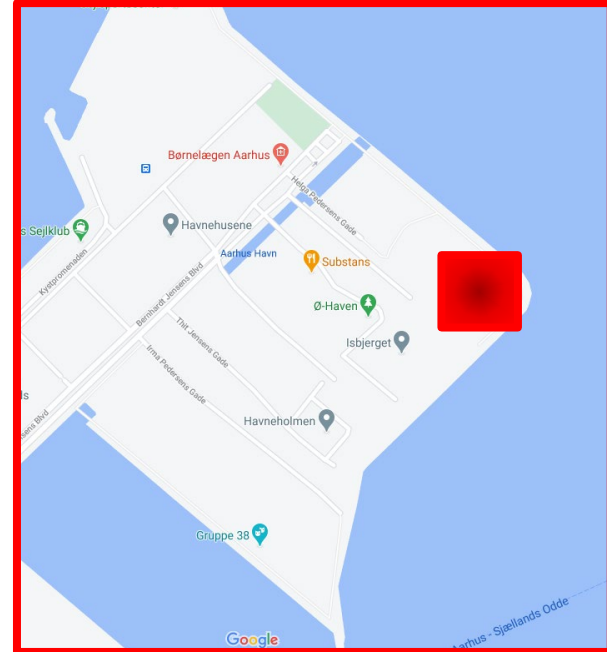
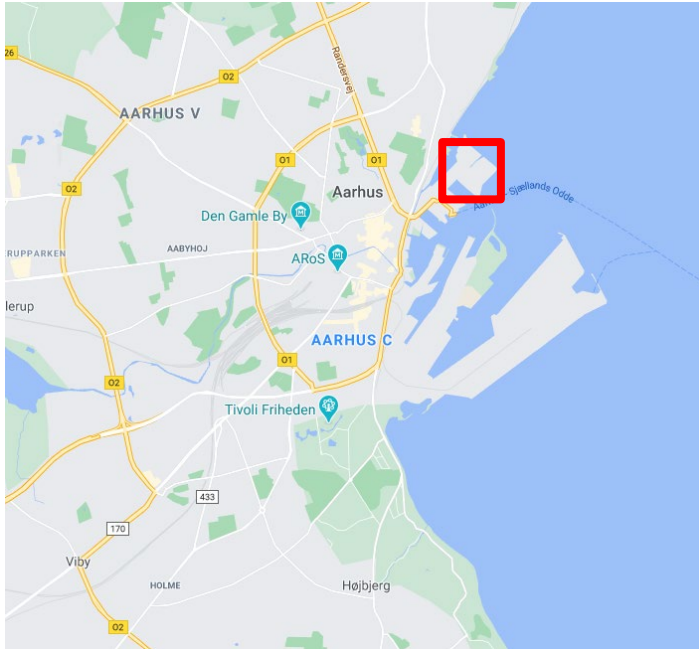




LIGHTHOUSE 2.0

Jesper Scharff Lanng – Per Aarsleff A/S

Lighthouse 2.0



Lighthouse 2.0



AARSLEFF



Lighthouse 2.0



Projektet



Aktører i totalentreprisen



- Bygherre: Anpartsselskabet Lighthouse United
- Projektudvikler: Kilden og Hindby

ONE COMPANY

TEAM

LIGHTHOUSE

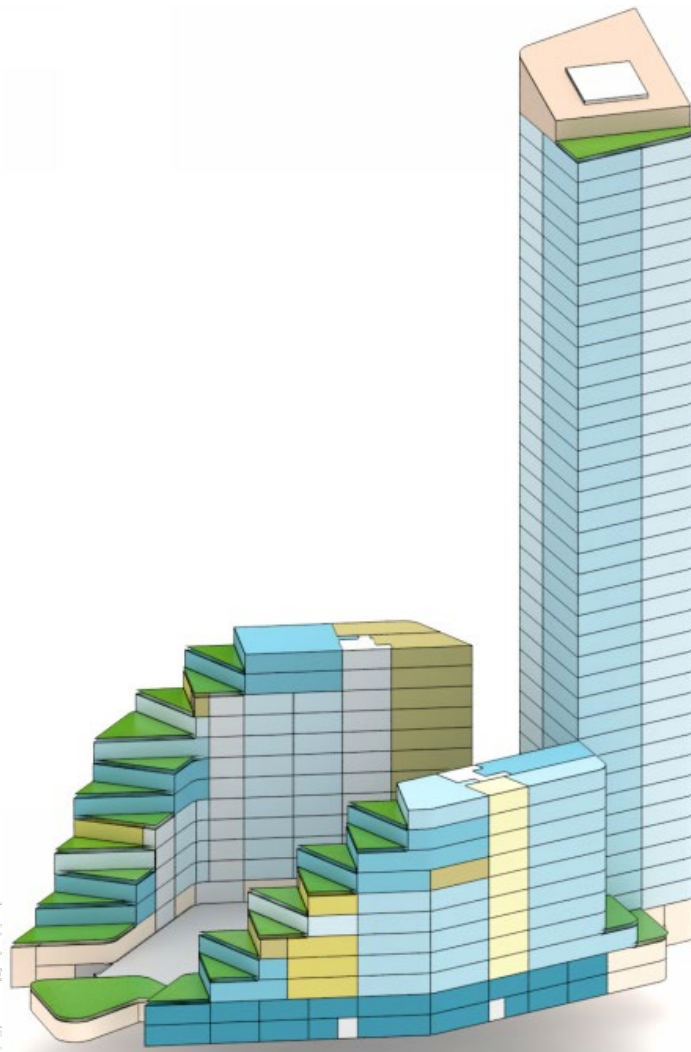


WICOTEC KIRKEBJERG



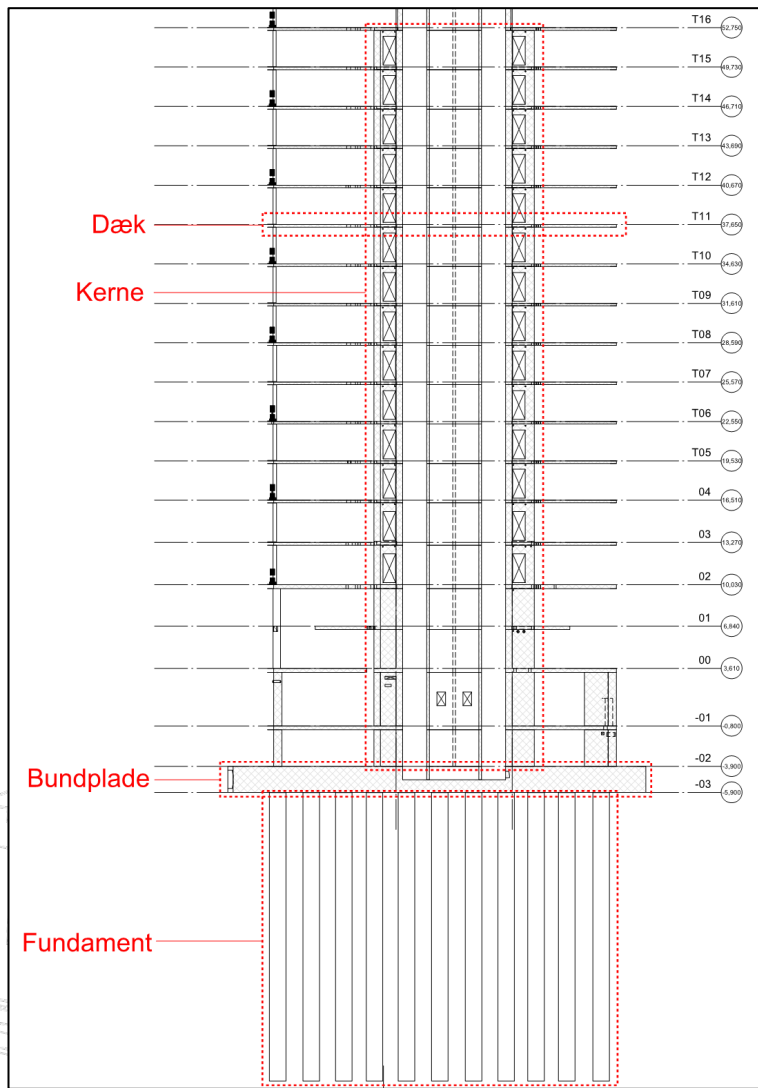
De kolde facts

- 142 meter højt
- Fyrtårn: 45 etager
- Fløjbygninger: 11 etager
- 381 lejligheder
- Udførelse:
 - Marts 2019 – Medio 2022

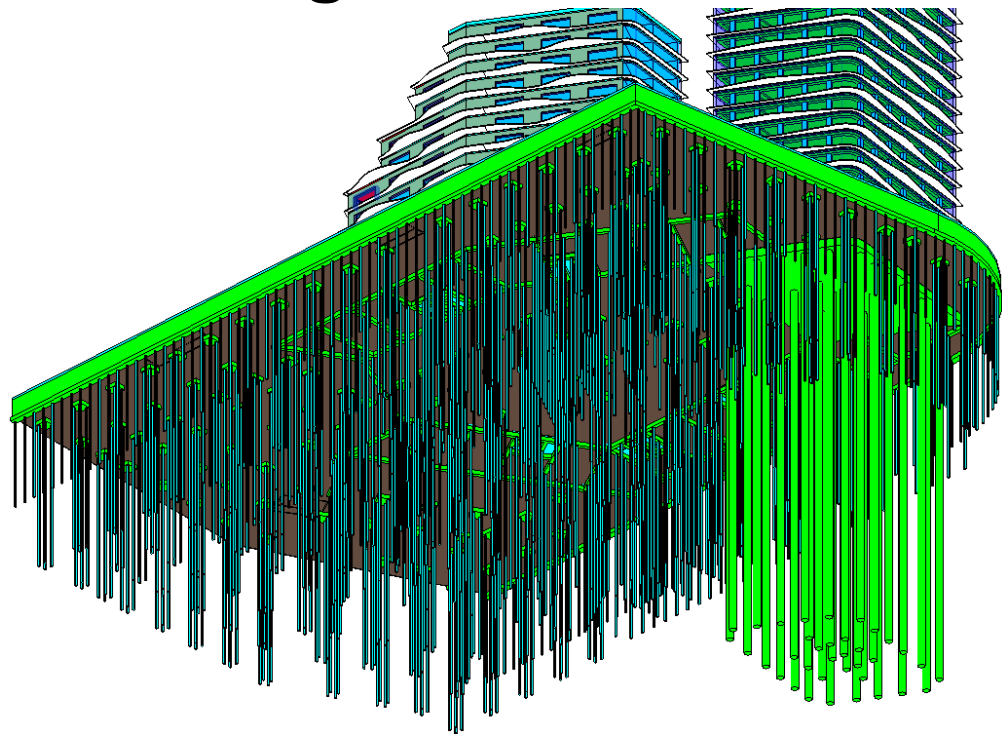


Konstruktioner

- Fundament
- Bundplade
- Kerne
- Dæk
- Top



Fundering



- Rammede pæle 300x300mm – 26km
- Borede pæle Ø2000mm – 28 stk. dybde 70m

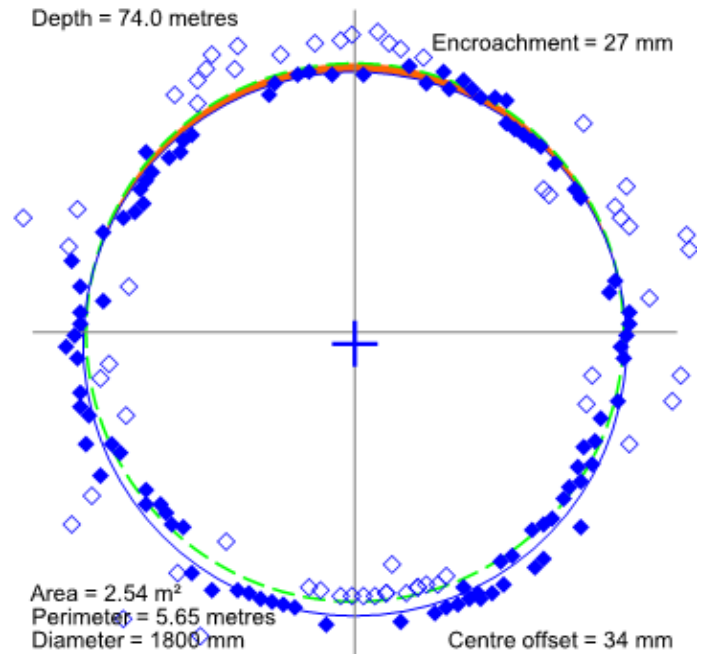
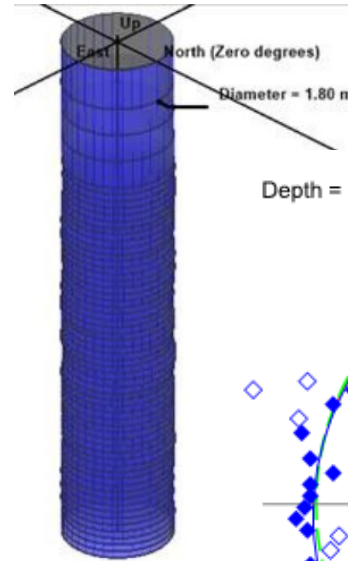


Fundering

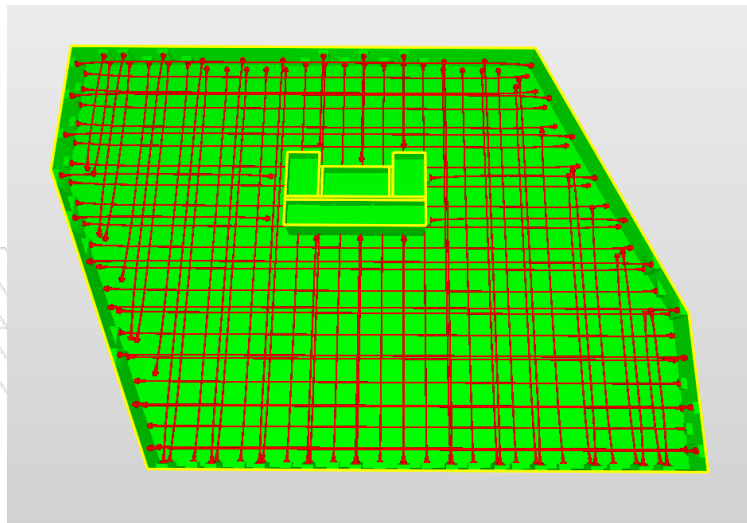


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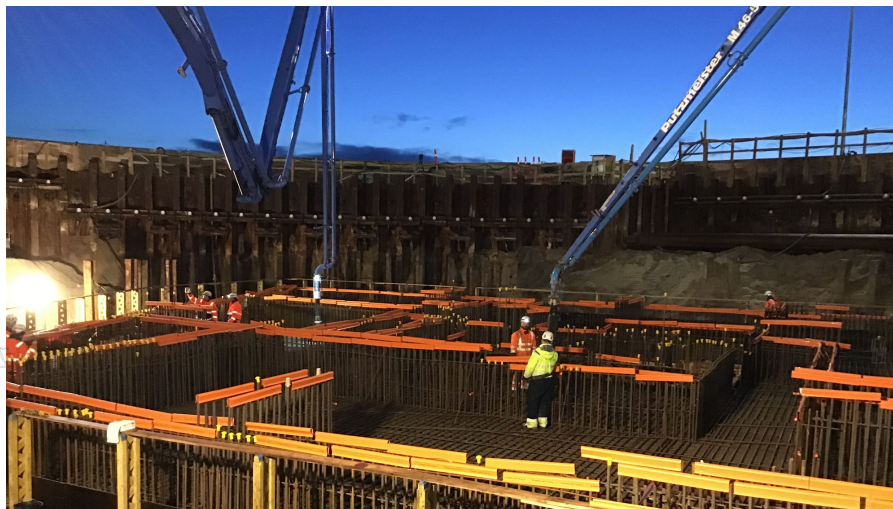
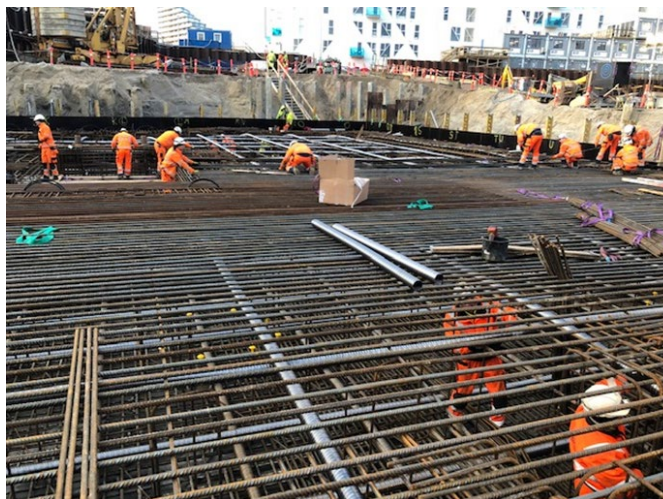
Fundering



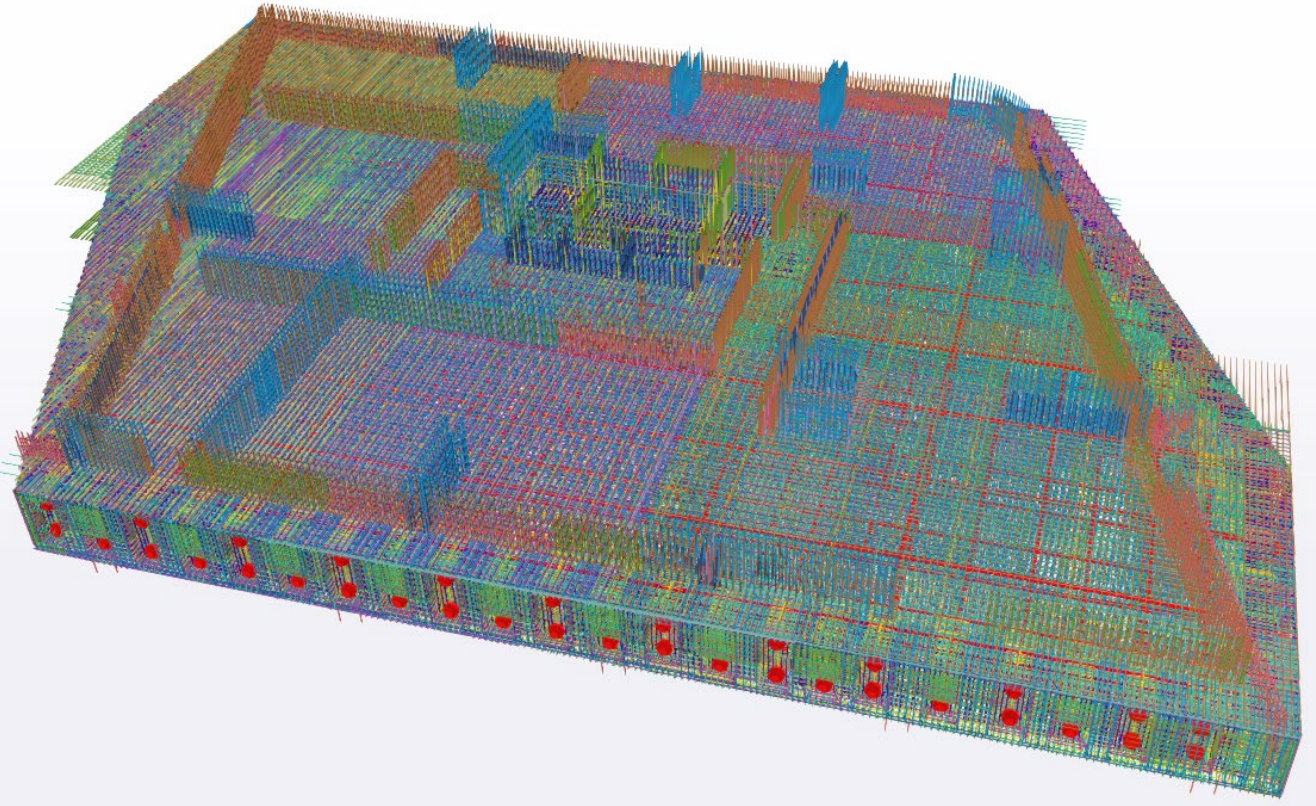
Bundplade



- Efterspændt bundplade
 - 700 m² – tykkelse 2m
 - 71 kabler á 19 liner
- Uden køling
- A40 – Lavalkali sulfatbestandig cement

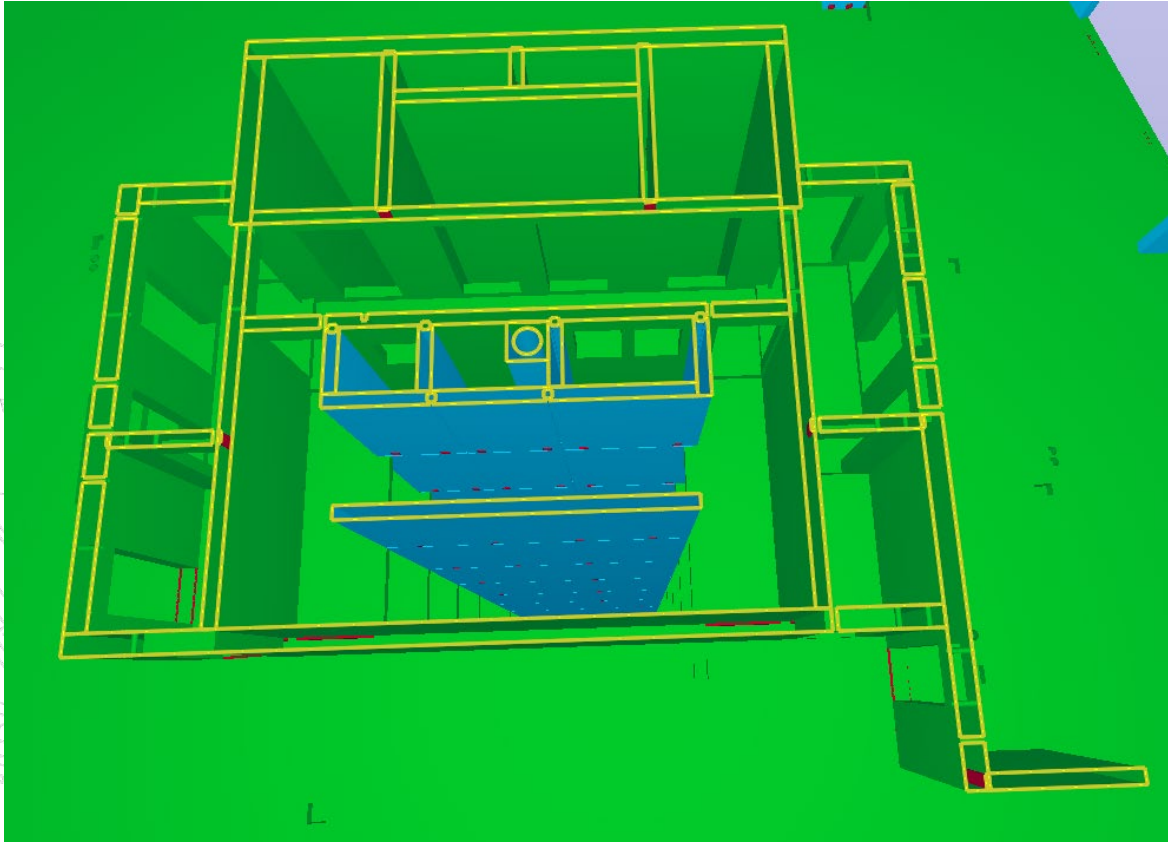


Bundplade



- 320 tons armering

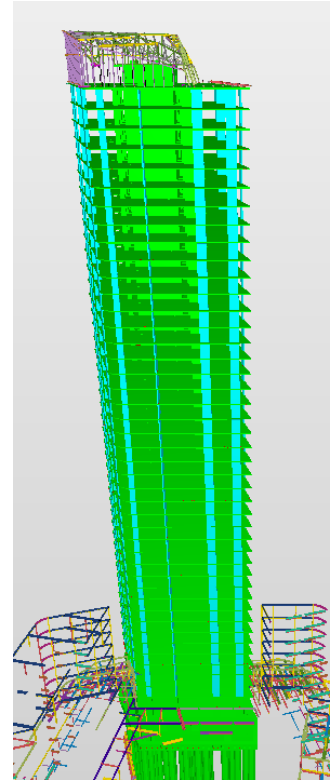
Kerne



500mm → 400mm → 300mm



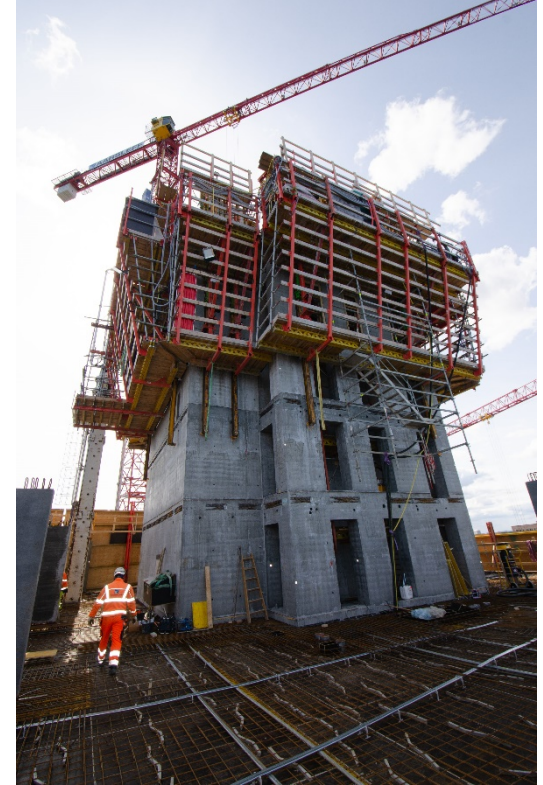
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Kerne

- Klatreforskalling



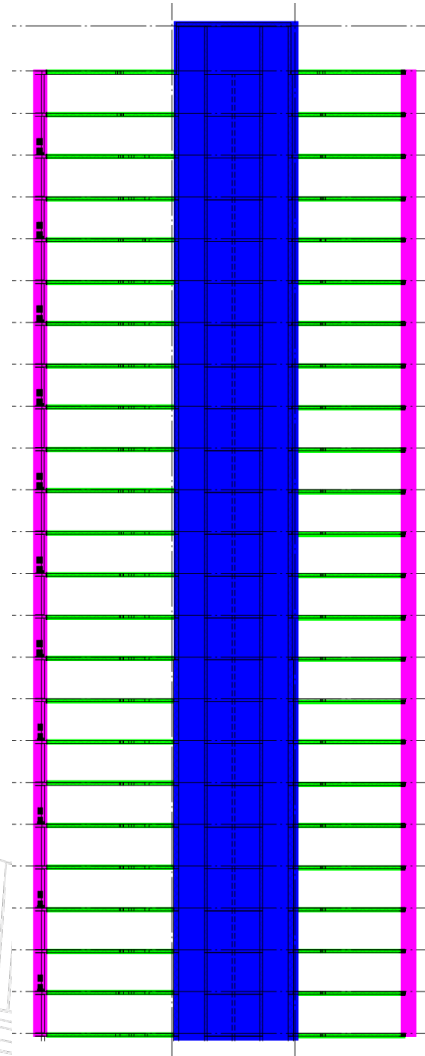
Kerne

- Klatreforskalling
- 3D modellering
- Køling
- P80 Rapid
- E-modul 42 GPa



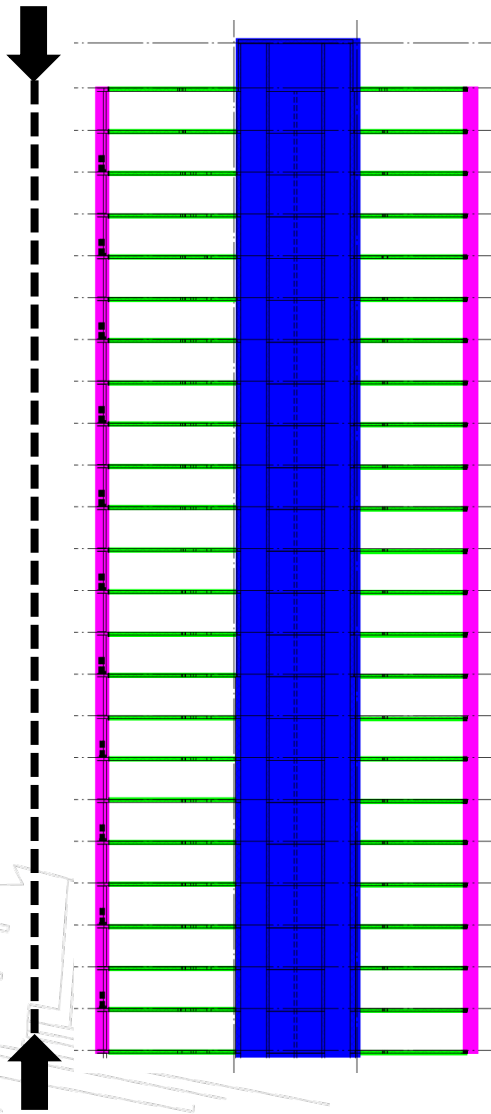
Kerne

- Klatreforskalling
- 3D modellering
- Køling
- P80 Rapid
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Kerne

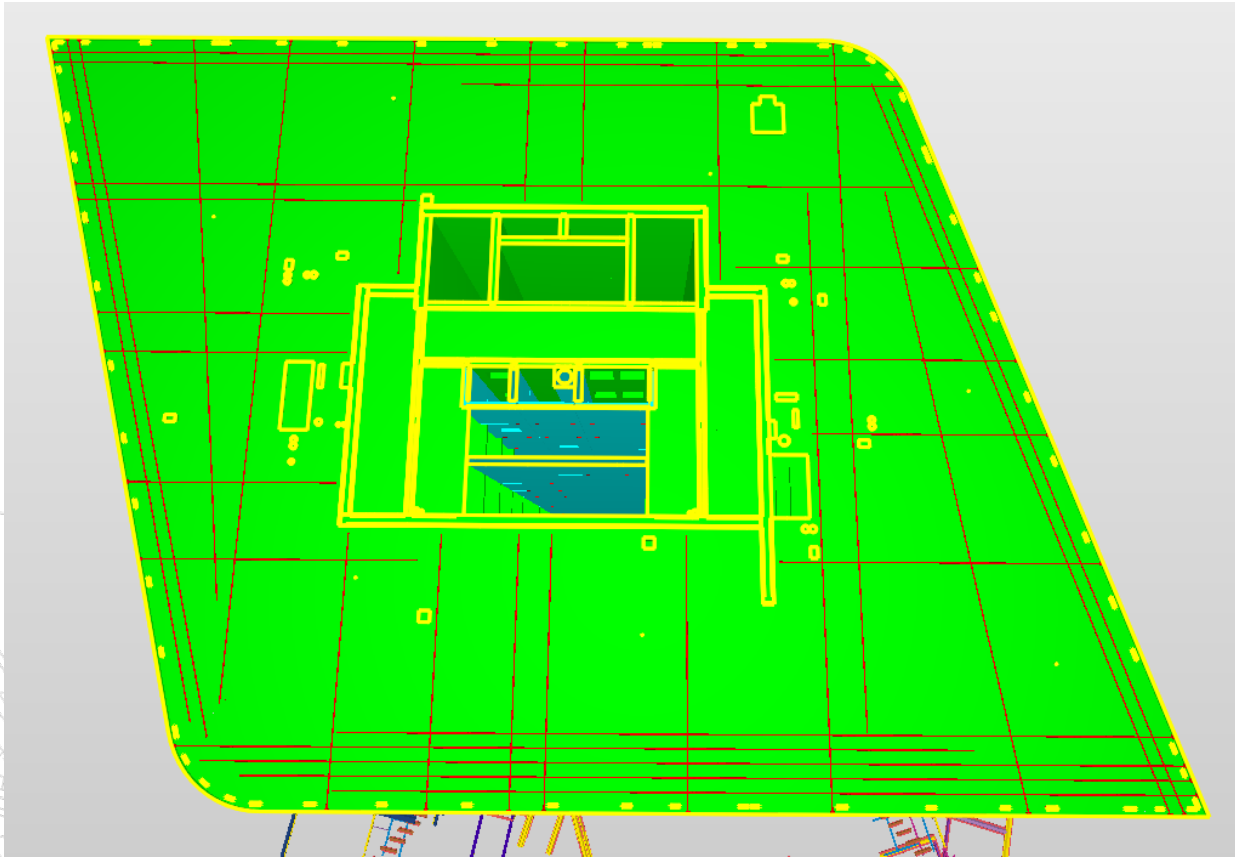
- Klatreforskalling
- 3D modellering
- Køling
- P80 Rapid
- E-modul 42 GPa
- Styrke VS. stivhed



Dæk



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Dæk

- 200mm efterspændt



Dæk



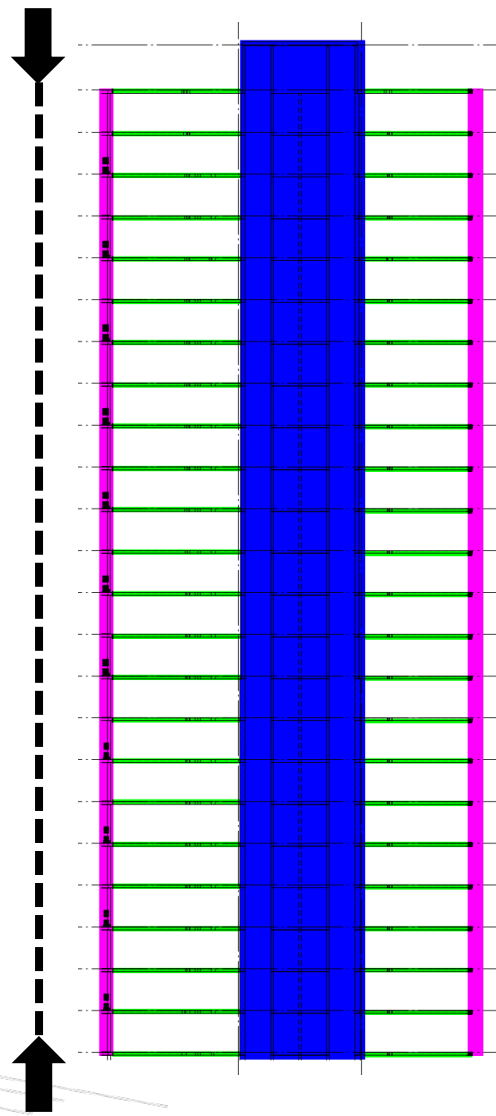
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- 200mm efterspændt
- P55 Rapid
- Temperatur-monitorering
 - Styrkeudvikling
- 35 kabler á 1-4 liner
- Deformationer aht. facade



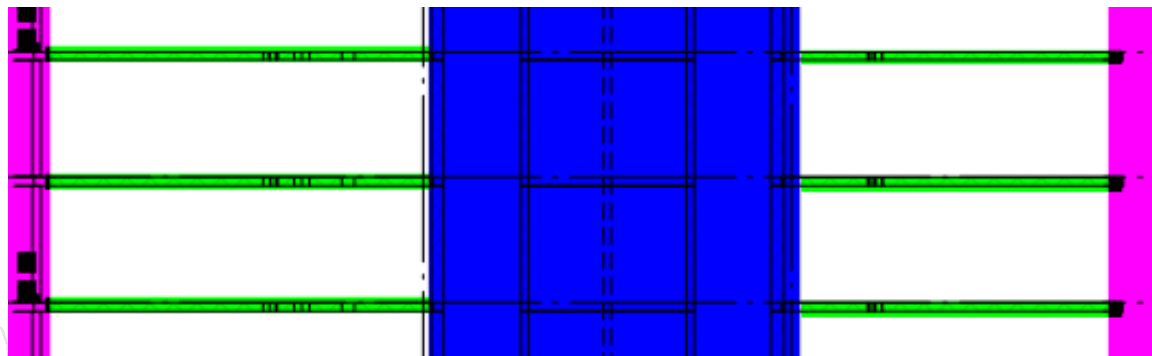
Dæk

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 - Styrkeudvikling
- 35 kabler á 1-4 liner
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- Kerne&dæk-samling moment-kapacitet

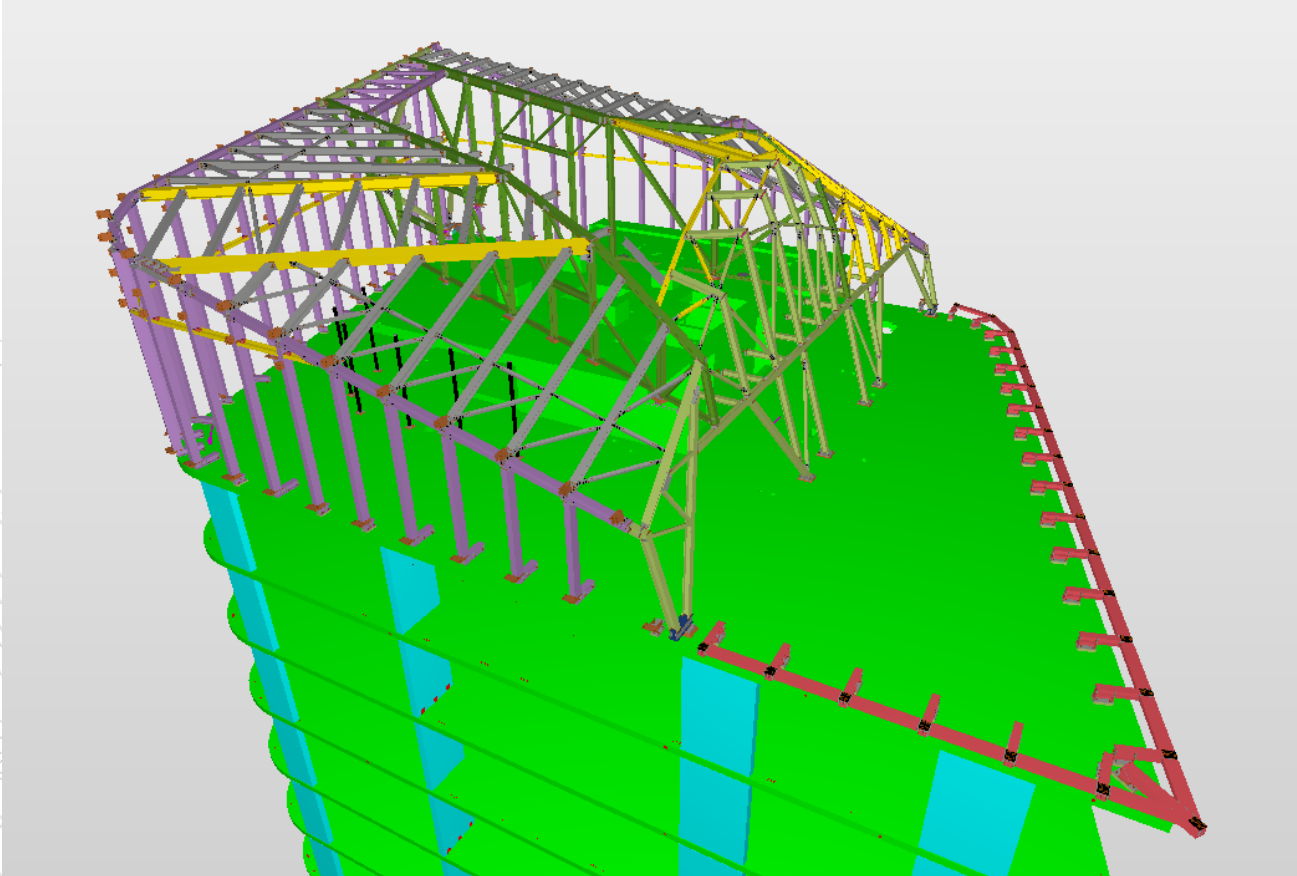


Dæk

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Crown



Crown



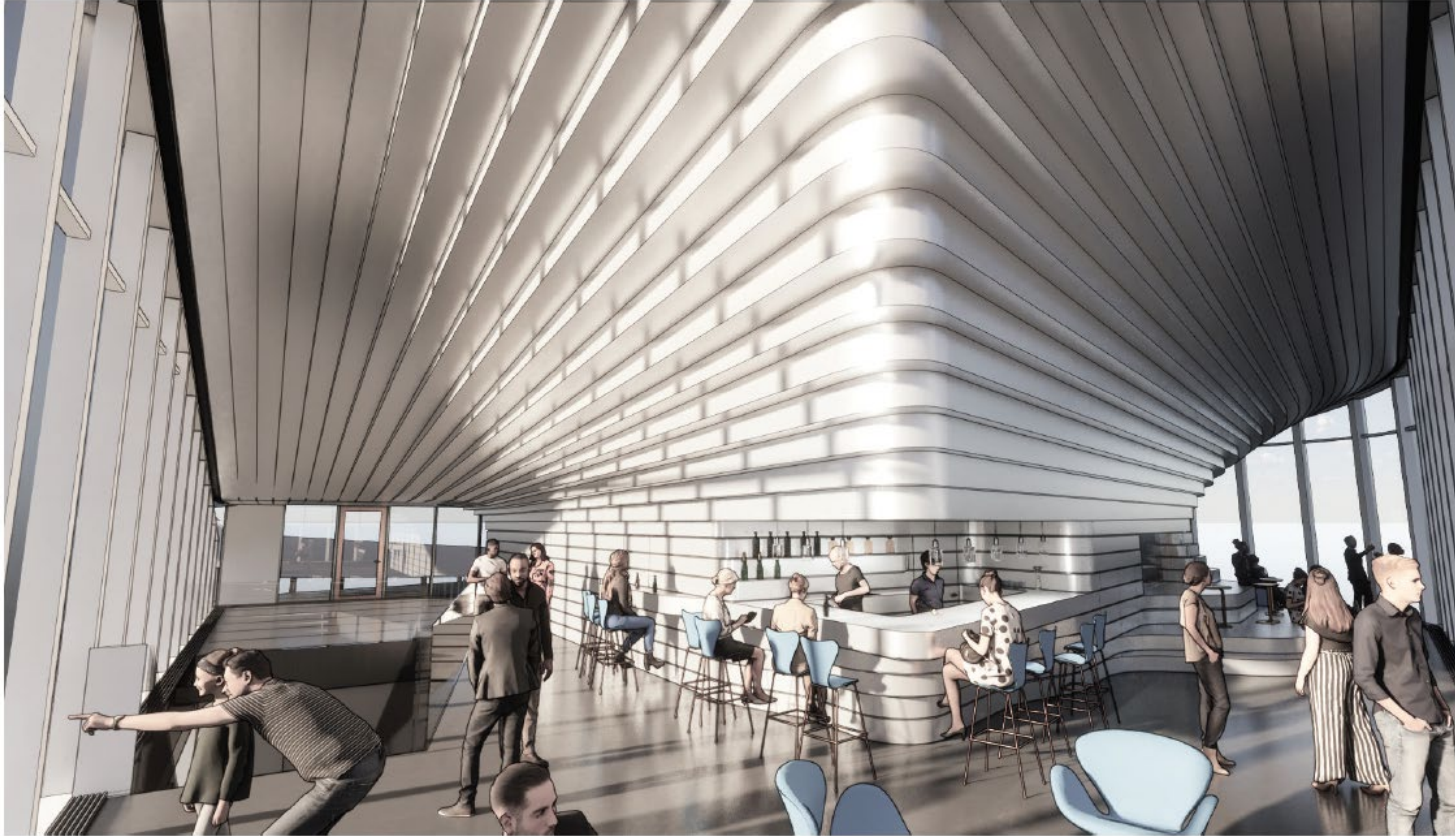
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Crown



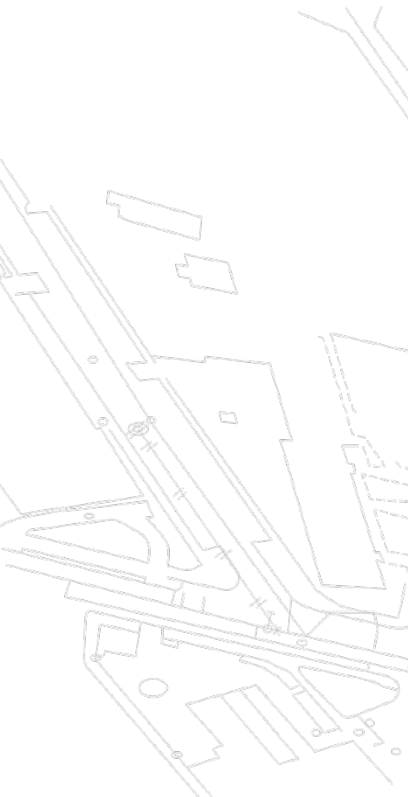
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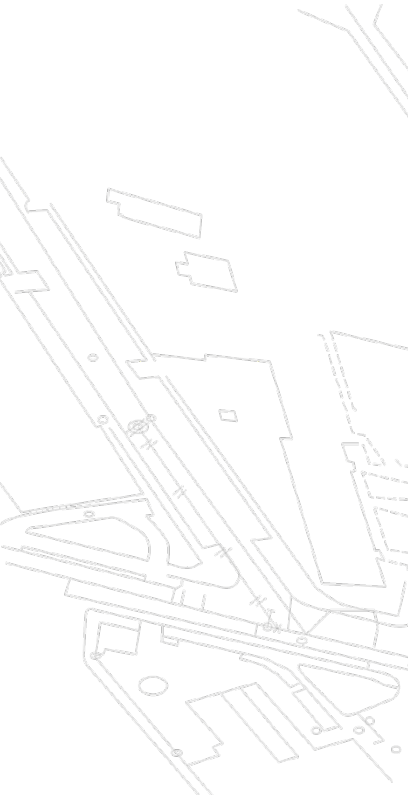






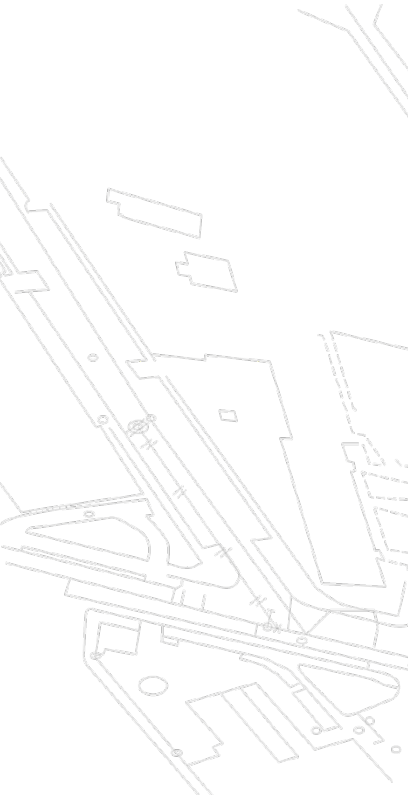


















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