

Thermal Imaging of Pit Storages

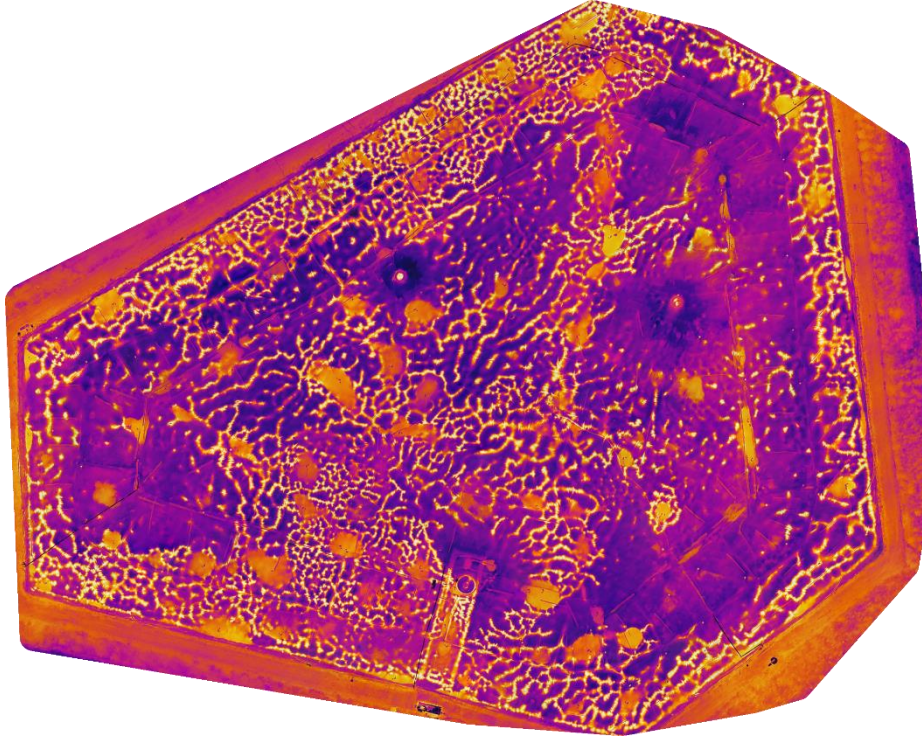
October 28th, 2020

Heat storage and monitoring results

Adam R. Jensen & Ioannis Sifnaios

All five pit storages investigated:
12th – 14th of October 2020

Vojens

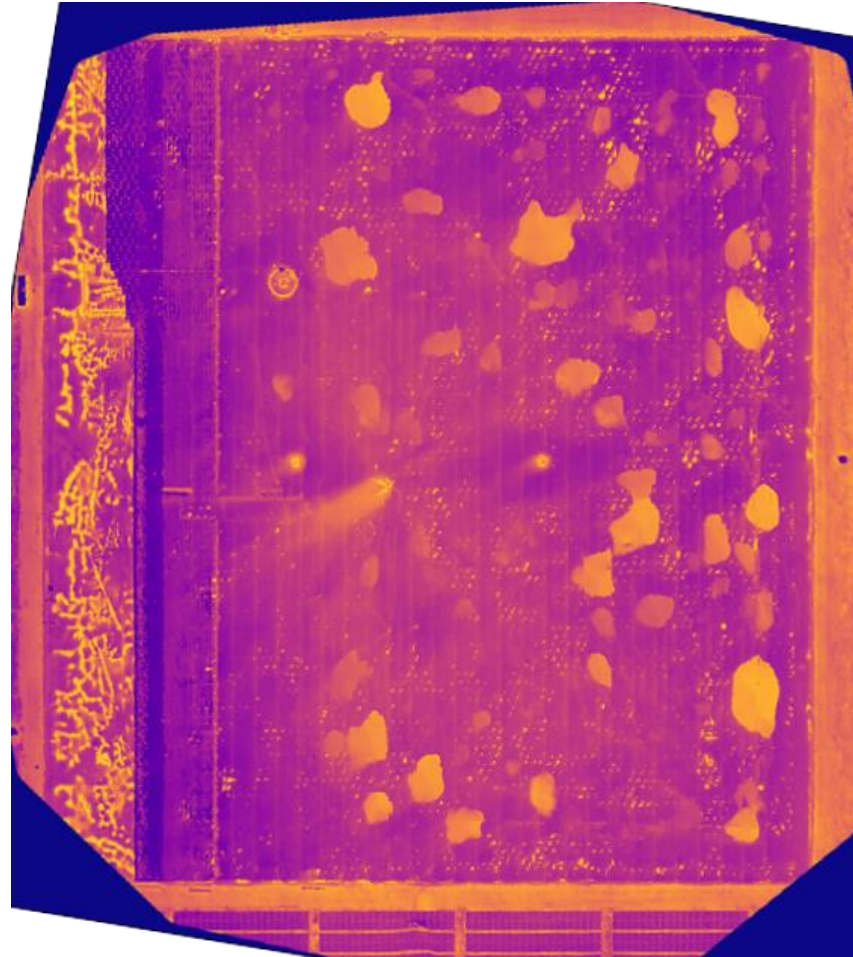


- Leca lid
- Extra insulation added 3 years ago
- Thinner layer around perimeter



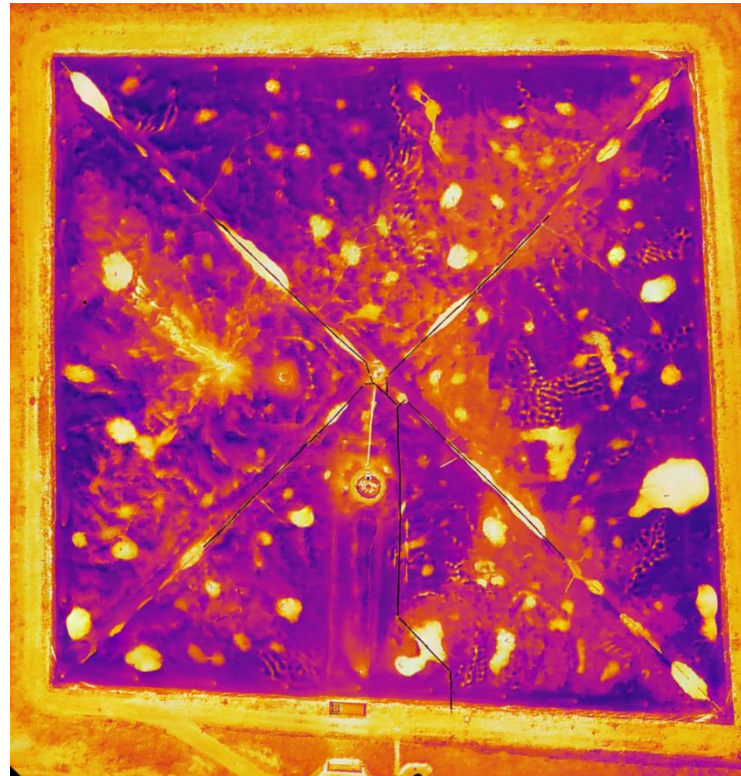
Gram

- Extra layer of insulation installed October 2020
- Left part is only leca



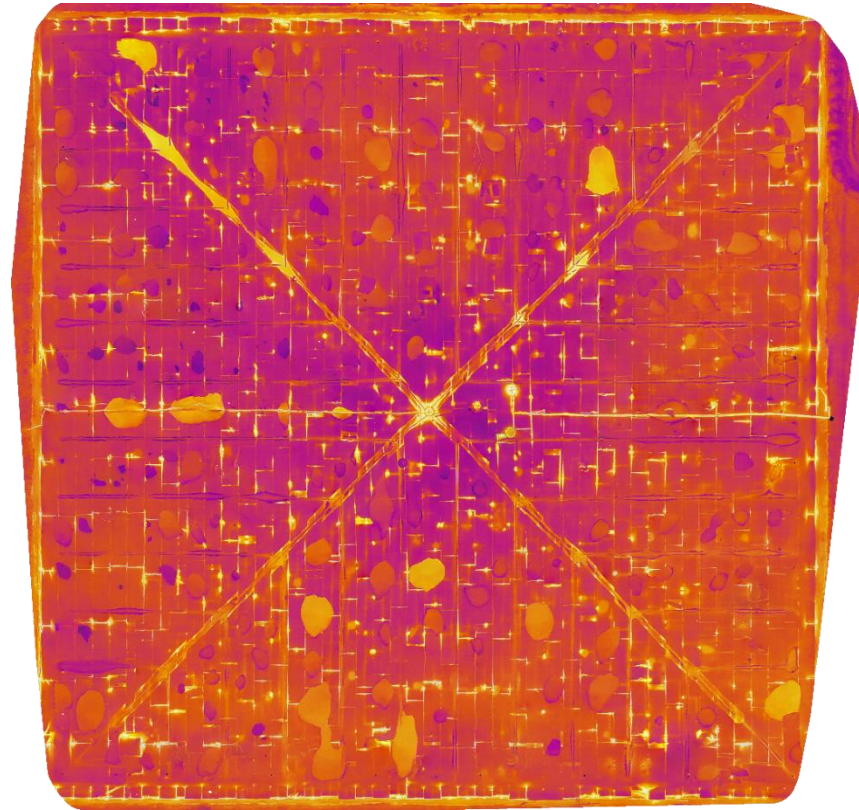
Toftlund

- Leca lid
- New semi-automatic drainage system
- Possible hot spot area



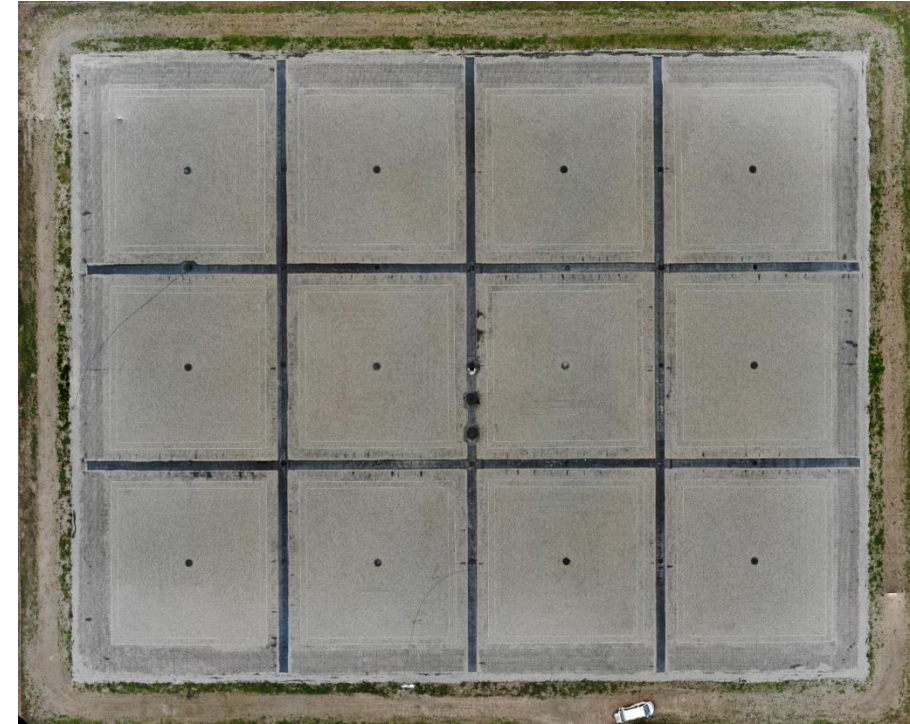
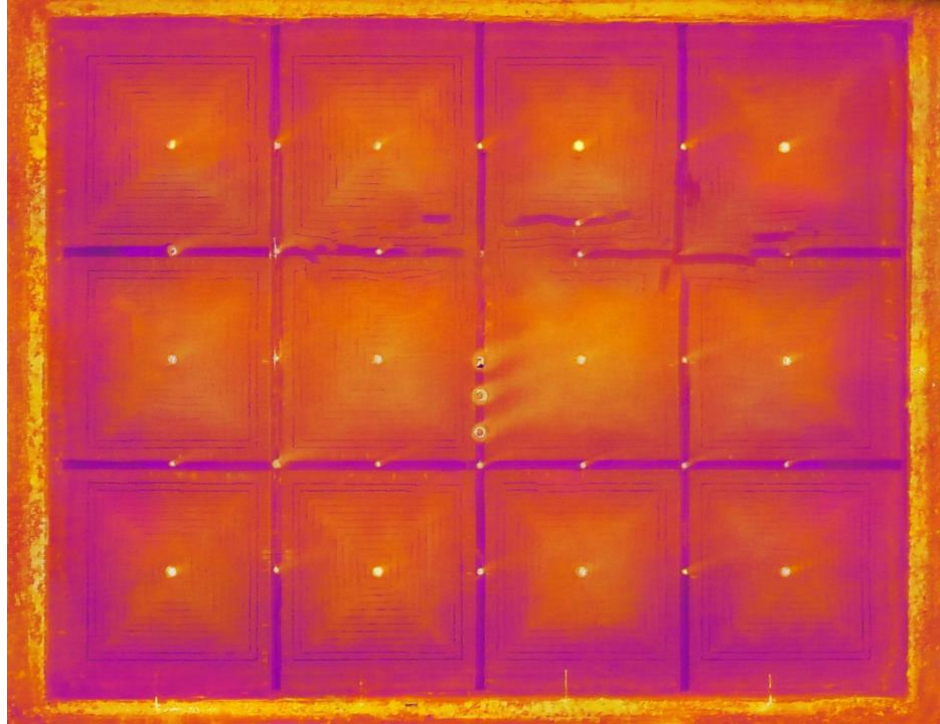
Dronninglund

- Normalen insulation mats
- Clear thermal bridges where insulation mats meet



Marstal

- Sectioned lid
- Top surface covered with pebbles
- New lid solution



Conclusions

- Leca lids seem to have areas of the lid where the insulation layer is thinner, creating thermal bridges
- This effect was not spotted in Dronninglund and Marstal
- The new lid in Marstal only has detectable hotspots at ventilation and pump housings