

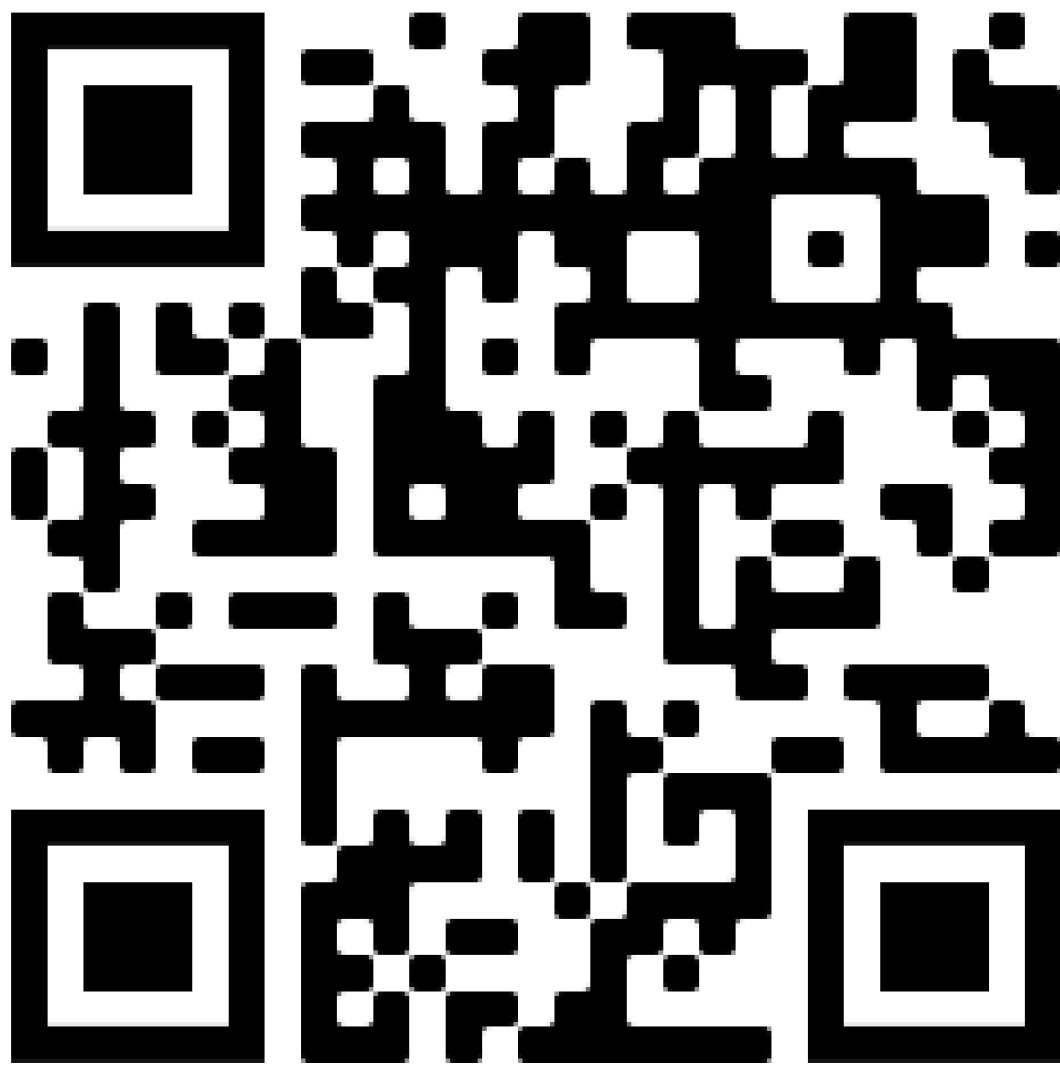
Puubyygeli



- Facts:
- Modular Construction
 - Modules by Astel Modular
 - Winter 2019 - Spring 2020
 - 70 Apartments, Studio & 1-Bedroom

Table 1	
Benefits:	Disadvantages:
<ul style="list-style-type: none">- Shorter Tilt-Up times- More robust weather protection- Transfers liability- Controlled conditions- Highly integrated	<ul style="list-style-type: none">- Reduced design flexibility- Hard to execute change orders- Longer lead times- Logistics challenges- Learning curve

Construction Timelapse



A Case Study Comparing Panelization and Modularization Construction Methods

Construction industry is notoriously inefficient industry with a lot of room for improvement. Construction companies are constantly looking to increase their efficiency. NCC Finland decided to explore the method of modular construction as part of the efforts to increase production. NCC also happened to build a similarly sized project with the more traditional method of panelization and tilt-up construction. This Case study explores the experience of NCC as the general contractor of both projects. The aim is to

understand the differences of the challenges and benefits experienced by the team from NCC. The findings show that Modular construction offers wide potential for faster and more streamlined experiences that reduce the risk taken by the general contractor in the form of less on-site construction, higher reliance on external pricing, and more predictable construction times. However, at the same time it implements more difficult logistics, less flexible designs, and longer lead times. Overall, the superintendent for the project gives modular construction good reviews while also recognizing that it has not yet reached full maturity and will require more experience from his part to fully utilize the full benefits that modular construction has to offer.

Key Words: Modularization, Panelization, Timber, Case Study, Efficiency

Weather Cover with an integrated crane



Puulinna



- Facts:
- Panel Construction
 - Fall 2016 - Spring 2018
 - 94 Apartments, Studio, 1-Bedroom & 2-Bedroom

