



# CASE STUDY

## Residential building



### PROJECT OVERVIEW

**Project:** BaseCamp Lyngby

**Customer:** BaseCamp Student Real Estate ApS

**General Contractor:** Max Bögl International SE

**Performed works:** All concrete works, foundations, floors, precast panel assembly, overlays

**Usage:** Residential building

**Address:** Skvobrynet 2, 2800 Kongens Lyngby, Denmark

**Casted:** June 2018 - October 2019

**Area Total:** 10,000 m<sup>2</sup> (107 640 sq ft)

### CUSTOMER

Basecamp Lyngby is a spectacular award-winning, student housing complex where nature has been allowed to set the terms. The 41,000 square meters building has six rising floors and winds in an undulating shape through the landscape.

This outstanding development includes 639 new youth housing units, 147 company apartments and senior housing units. On the roof there is a large green park, open to the general public as well as residents. Various climate-friendly features have been incorporated throughout the building. They include the use of recycled materials and of recycled air for the heating and ventilation system, plus rainwater storage facilities and 900 square meters of solar panels on the roof.

### CHALLENGE

The main challenge of this project was related to the complex design of the building, with its various levels and slopes. Project specifics called for close cooperation between the parties involved in construction to ensure that everything ran efficiently.

The other challenge was the limited space for material storage, necessitating careful material logistics planning throughout the entire building process.

The overall amount of materials employed by Primekss throughout the project:

- 400 tons of reinforcement,
- 6,800 m<sup>3</sup> of concrete,
- 5,000 wall elements,
- 33,000 m<sup>2</sup> deck elements.



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## SOLUTION

This particular project was remarkable for its size and the complexity of the building design.

Primekss carried out all the concrete works on the project, including the on-site casting of concrete for the foundations and slab overlays. The structure is made of a single trapezoid-shaped module. The module is repeated, turned 180 degrees, and stacked at different heights to create the rounded organically shaped structure.

A vast number of precast panels were assembled:

- 5,000 wall elements,
- 33,000 m<sup>2</sup> deck elements.

A project of the highest quality was executed, and the result speaks for itself: Basecamp has received numerous awards, including The ICONIC Award (Innovative Architecture Award), the WAA (World Architecture Award), A Design and Estate Media Project of the Year 2018.



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