

# Certificate

Certified PHI Low Energy Building

B.Tec Prof. Dr. Harald Krause Authorised by:  
Sonnenfeld 9  
DE-83122 Samerberg  
www.btec-rosenheim.de



Dr. Wolfgang Feist  
64283 Darmstadt  
Germany

Brinova Arena Karlskrona  
Björkholmskajen 5, 37136 Karlskrona, Sweden



|                   |  |
|-------------------|--|
| Client            | Brinova Fastigheter AB<br>Landskronavägen 23<br>25232 Helsingborg, Sweden  |
| Architect         | UULAS Arkitekter AB<br>Döbelnsgatan 9<br>291 31 Kristianstad, Sweden       |
| Building Services | Structor Kristianstad AB<br>Cardellsgatan 8<br>291 31 Kristianstad, Sweden |
| Energy Consultant | IG Passivhus Sverige<br>Honnörsgatan 16<br>352 36 Växjö, Sweden            |

The characteristic energy values of buildings certified according to the PHI Low Energy Building Standard are verified as thoroughly as for Passive House certification. However, due to various reasons PHI Low Energy Buildings have a somewhat higher energy demand (criteria: see [www.passivehouse.com](http://www.passivehouse.com)).

**The design of the above-mentioned building meets the criteria defined by the Passive House Institute for the PHI Low Energy Building Standard:**

| Building quality   | This building | Criteria | Alternative criteria |
|--|---------------|----------|----------------------|
| <b>Heating</b><br>Heating demand [kWh/(m <sup>2</sup> a)]                    | <b>29</b> ≤   | 30       |                      |
| <b>Cooling</b><br>Frequency of overheating (> 25 °C) [%]                     | <b>1</b> ≤    | 10       |                      |
| <b>Airtightness</b><br>Pressurization test result (n <sub>50</sub> ) [1/h]   | <b>0,3</b> ≤  | 1,0      |                      |
| <b>Renewable primary energy (PER)</b><br>PER-demand [kWh/(m <sup>2</sup> a)] | <b>71</b> ≤   | 75       | 75                   |
| Generation (reference to ground area) [kWh/(m <sup>2</sup> a)]               | <b>54</b> ≥   | -        | -                    |

The associated certification booklet contains more characteristic values for this building.

**Samerberg-Törwang, 27. January 2021**

Certifier: Harald Krause, B.Tec Prof. Dr. Harald Krause