TherapieStützpunkt

by Sabrina Gassner / 2021-04-07 09:06:31 / International / 8121 / EN

New Construction

Primary energy need :
13 kWhpe/m².year
(Calculation method: Other)

ENERGY CONSUMPTION

- Economic building

Building Type: Other building
Construction Year: 2017
Delivery year: 2017
Address 1 - street: Oberndorfer Straße 17 3251 PURGSTALL AN DER ERLAUF, Austria
Climate zone: [Dfb] Humid Continental Mild Summer, Wet All Year

Net Floor Area: 238 m² Useful area (es)
Construction/refurbishment cost: 501 480 €
Number of none: 8 none
Cost/m²: 2107.06 €/m²

Certifications:

General information

Environmental awareness, modern architecture, and health

The innovative project "TherapieStützpunkt" in Purgstall an der Erlauf (Southern Austria) was set up by the company Holzbau Strigl GmbH in 2017. It is a contemporary building with a barrier-free access ramp and a usable area of around 240m², distributed over 2 floors in a shell made of constructed wooden frames.

Modern architecture and ecological construction are combined in this project, with wood playing a major role.

The goal for this building was to create an optimal room for every patient and every therapist and taking care of the individual treatment.
A team of freelance therapists, with a wide variety of focuses in physiotherapy, is offering many different training methods in these rooms.

This range of advanced treatment methods and progressive technology is also reflected in the building. The latest building technology and the use of natural building materials represent environmental awareness.

The company Holzbau Strigl from Lunz am See attaches particular importance to the reduction of greenhouse gases in the implementation and use of every building. The materials used for the facade are environment friendly, made of wood, and the insulation is made of cellulose. During the implementation, great attention was paid to cooperation with regional companies. Short distances also protect the environment.

**Timber construction by Holzbau Strigl:**

- 32cm wooden stand construction + cellulose insulation in the intermediate chambers
- 10cm installation level filled with wood wool
- Ventilated facade for good moisture transport and weather protection
- total thickness 54cm
- U-value outer wall 0.098 W / m²K

**Window construction:**

- Wooden windows with triple glazing
- Uw value 0.71 W / m²K
- description: - Air / water heat pump with comfort ventilation Drexel & Weiss X³A9
- Loxone Smart Home automation for shading and lighting

A heat-pump is used as the heating system for room heating and hot water preparation.

Heat recovery is used for the ventilation system.

See more details about this project

- [https://klimaaktiv-gebaut.at/therapiestuetzpunkt-purgstall.htm](https://klimaaktiv-gebaut.at/therapiestuetzpunkt-purgstall.htm)
- [http://www.xn--therapiestztunkt-c3b.at/?page=home](http://www.xn--therapiestztunkt-c3b.at/?page=home)

**Photo credit**

All picture belong to Holzbau Strigl GmbH
Fotograf: Auftragsfoto.at

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**Stakeholders**

**Contractor**

**Name:** Holzbau Strigl GmbH
**Contact:** Sabrina Gassner, sabrina.gassner[a]ecoconcept.at
[www.holzbau-strigl.at](http://www.holzbau-strigl.at)

**Construction Manager**

**Name:** EcoConcept GmbH
**Contact:** Sabrina Gassner, sabrina.gassner[a]ecoconcept.at
[www.ecoconcept.at](http://www.ecoconcept.at)

**Stakeholders**

**Function:** Others
Wolfgang Auer Bau- und Möbeltischlerei
074872860

**Contracting method**

Other methods
If you had to do it again?

At this point we can say that this project speaks for great success from all sides. The building is so popular, many therapists want to work there and also the patients are very happy. So the building will be expanded in the near future.

Building users opinion

Statement from Mr. Spieslehner, building user and owner:
“Our therapists feel very comfortable in the new building that was built in 2017. The well-structured and barrier-free rooms are flooded with light, and together with the natural building material wood, create a pleasant and beautiful workplace. “

Energy

Energy consumption

- Primary energy need: 13.00 kWhpe/m².year
- Primary energy need for standard building: 30.00 kWhpe/m².year
- Calculation method: Other
- Breakdown for energy consumption: All details on the energy identification are in the documents.

Envelope performance

More information:
Thermal envelope

Outer wall
32cm wooden stand construction + cellulose insulation in the intermediate chambers
10cm installation level filled with wood wool
Ventilated facade for good moisture transport and weather protection
U-value = 0.098 W / (m²K)

Basement ceiling/floor slab
20cm XPS under 25cm reinforced concrete slab
5cm EPS granules
3cm rolljet
6cm cement screed U-value = 0.128 W / (m²K)

Top, roof
2.4 cm noise
44 cm rafters incl. Doubling + cellulose insulation in the intermediate chambers
2.4 cm economy formwork
1.5 cm plasterboard U-value = 0.096 W / (m²K)

Window frames
“Auer window”, PH window by Master company Wolfgang Auer e.U.,
Solid wood windows in spruce with a frame thickness of 95mm
U w value = 0.85 W / (m²K)

Glazing
Triple glazing filled with argon
U g value = 0.5 W / (m²K)
g value = 50%

Entrance
Solid wood door
U d value = 0.8 W / (m²K)
Real final energy consumption

Final Energy: 36,00 kWh/m².year

Renewables & systems

Systems

Heating system: Heat pump
Hot water system: Heat pump
Cooling system: No cooling system
Ventilation system: Natural ventilation
Renewable systems: Solar photovoltaic, Heat pump

Environment

Urban environment

Purgstall an der Erlauf is a nice little town in Southern Austria and is very green.
The railway station is not far away, about a 10 min walk.
But of course, most people come to this building because they suffer from physical discomfort, so they come by car. Therefore we have a parking space directly in front of the building.
A little shopping mall with some restaurants is just 5 minutes walk away from the TherapieStützpunkt.

Costs

Construction and exploitation costs

Total cost of the building: 501,480 €

Health and comfort

Life Cycle Analysis

Eco-design material:
HFC-free insulation and assembly foams / OI3 Index (OI3BG3, BZ 352).
Because of its environmentally friendly construction, this building has a reduction in CO2 emissions. Renewable raw materials were used in the shell in particular.
Disposal indicator EI10 -> 23.69

Indoor Air quality

Result of the airtightness test:
Measured value n50 -> 0.24 1/h
The heat pump enables the entire house and the water to be heated with it. Heat recovery is used as the ventilation system.

**Comfort**

**Health & comfort:**
- **Accessibility:**
  An access ramp enables barrier-free access to the house. Also inside, everything was adjusted to meet the different needs of the patients.

- **Outside area:**
  There is parking space for the cars of the patients and therapists directly in front of the building. As well as several bicycle parking spaces.

- **Inside:**
  All windows have triple glazing and this offer good insulation, both against heat and cold and against noise from outside.

**Acoustic comfort:**

The wood construction ensures a high level of comfort in the acoustics.

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- Ventilated facade for good moisture transport and weather protection
  U-value = 0.098 W / (m²K)

**Basement ceiling / floor slab**
- 20cm XPS under 25cm reinforced concrete slab
- 5cm EPS granules
- 3cm roljet
- 6cm cement screed U-value = 0.128 W / (m²K)

**Top, roof**
- 2.4 cm noise
- 44 cm rafters incl. Doubling + cellulose insulation in the intermediate chambers
- 2.4 cm economy formwork
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$U_d$ value = 0.8 W / (m²K)

Daylight factor: All rooms have windows and are flooded with light

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**Carbon**

**GHG emissions**

GHG in use: 17.00 KgCO₂/m²/year
Methodology used: OIB Richtline 6
Building lifetime: 100,00 year(s)

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**Contest**

**Reasons for participating in the competition(s)**

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We guarantee the exclusion of any substances harmful to the climate or other substances of concern.

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