



Demo Factsheet for IEA ES Task 43

“Storage for renewables and flexibility through standardized use of building mass”, Subtask D



Picture of Demo building

Building Name

W.E.I.Z. 2

Location/Country

8160 Weiz, Austria

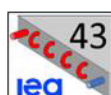
Submitting contact information

**Name, E-mail, Institution*

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Building information

Building type

- ☒ **New construction**
☐ **Renovation/retrofit**
☐ **Prototype/Test building**

Year of construction

*for renovation year of renovation
 2007

Usage category

*e.g. residential, office, tertiary etc.
 office, education

Total conditioned floor area [m²]

*total area conditioned with heat and/or cold
 3.330 m²

Total energy consumption [kWh/m²a] and supply temperatures [°C]

*Electricity refers to the energy supply systems. If possible, exclude household electricity.

Heating	29 kWh/m ² a	temperature	Flow/Return
Hot water	Klicken oder tippen Sie hier, um Text einzugeben.	temperature	Flow/Return
Cooling	Klicken oder tippen Sie hier, um Text einzugeben.	temperature	Flow/Return
Electricity	Klicken oder tippen Sie hier, um Text einzugeben.		

Energy supply systems

*please list all supply systems (e.g. heat pumps, boilers, the electricity grid), including power ratings for locally deployed technologies

Heat:	brine/water heat pump, district heating for peak loads
Cold:	Klicken oder tippen Sie hier, um Text einzugeben.
Electricity:	grid

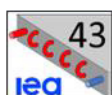
Installed energy storage systems

* please list all energy storage options besides activated building mass, including their capacities (e.g. hot water buffer, battery etc.)

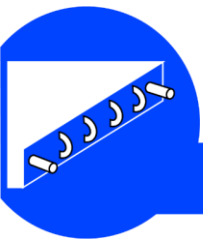
Heat:	? liter hot water buffer
Cold:	Klicken oder tippen Sie hier, um Text einzugeben.
Electricity:	Klicken oder tippen Sie hier, um Text einzugeben.

Other conditioning systems besides TABs [multiple choice]

- ☒ **Radiators**
☐ **Conventional floor heating**
☐ **Other:**
 Klicken oder tippen Sie hier, um Text einzugeben.
- ☐ **Ventilation**
☐ **Wall heating**



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Dimension of total installed thermal activated building mass [m^2/m^3]

*use one or both of the metrics depending on which information is available

Area [m^2]:

3.330 m^2

Volume [m^3]:

Klicken oder tippen Sie hier, um Text einzugeben.

Location of thermal activated building mass integration

- ☐ Floor
- ☐ Wall
- ☒ Ceiling
- ☐ Other:

Klicken oder tippen Sie hier, um Text einzugeben.

Material(s) used

concrete

Functional role of thermal activated building mass [multiple choice]

- ☒ Heating
- ☒ Cooling
- ☐ Energy storage

Is the thermal activated building mass used for flexibility services?

- ☒ No. Because of:
 - ☐ No need for additional storage
 - ☒ Lack of awareness or lack of information on the topic
 - ☐ Lack of social acceptance
 - ☐ Technical feasibility
 - ☒ Financial feasibility
 - ☐ Other reasons

- ☐ Yes. Please describe the use case below:

Klicken oder tippen Sie hier, um Text einzugeben.

Optional additional information

*e.g. further details about the building and its function, feedback from users, residents or owners, project homepage, studies or other information that is not covered by the factsheet

Klicken oder tippen Sie hier, um Text einzugeben.