



Evaluation ENERBUILD-Tool – existing buildings 02 Secondary School Zams







Name of the building	Secondary School Zams (refurbishment)
Address of the building	Oberreitweg 26, 6511 Zams
Owner/investor	Gemeinde Zams
Year of construction	2007 - 2008
Building type	massive construction, timber frame construction
Building method	
Number of buildings	1
Number of levels above earth	3
Number of levels underground	1
Kind of the public use	school
Effective area for public use in m 2 (net)	5.506 m ²
Additional private uses	-
Effective area for private use in m 2 (net)	-
Total effective area in m ²	5.506 m ²
Source of energy for heating	oil
Heating system	Oil fired heating (existing heating)
Water heating system	Oil fired heating
Date of the building evaluation	2011





2 Execution of the building evaluation with the ENERBBUILD tool

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Temperature for thermal comfort in summertime: 26 °C

Local limits for heating demand: 46,88 kWh/m²

(limit OIB RL 6, HWB* umfassende Sanierung)

Nr.		Title	Must criteria (M)	max. points	evaluated points	
Α		Quality of location and facilities		max. 100	50	
Α	1	Access to public transport network		50	0	
Α	2	Ecological quality of site		50	50	
В		Process and planning quality		max. 200	133	
В	1	Decision making and determination of goals		25	18	
В	2	Formulation of verifiable objectives for energetic and ecological measures	М	20	10	
В	3	Standardized calculation of the economic efficiency	M	40	0	
В	4	Product-management - Use of low-emission products		60	40	
В	5	Planning support for energetic optimization		60	50	
В	6	nformation for users		25	15	
С		Energy & Utilities (Passive house)		max. 350	194	
С	1	Specific heating demand (PHPP)	М	100	100	
С	2	Specific cooling demand (PHPP)	M	100	37	
С	3	Primary energy demand (PHPP)	M	125	47	
С	4	CO2-emissions (PHPP)		50	10	
D		Health and Comfort		max. 250	105	
D	1	Thermal comfort in summer		150	50	
D	2	Ventilation - non energetic aspects		50	25	
D	3	Daylight optimized (+ lightening optimized)		50	30	
Е		Building materials and construction		max. 200	77	
E	1	DI3 _{TGH-lc} ecological index of the thermal building envelope (respectively OI3 of the total mass of the building)		200	77	
Su	m			max. 1000	559	





Evaluation ENERBUILD-Tool – existing buildings 04 Kindergarten Kramsach







Name of the building	Kindergarten Kramsach
Address of the building	Oberreitweg 26, 6511 Zams
Owner/investor	Gemeinde Kramsach
Year of construction	2007 - 2008
Building type	massive construction, timber frame construction
Building method	
Number of buildings	1
Number of levels above earth	2
Number of levels underground	0
Kind of the public use	Kindergarten
Effective area for public use in m 2 (net)	1.106 m²
Additional private uses	-
Effective area for private use in m 2 (net)	-
Total effective area in m ²	1.106 m²
Source of energy for heating	Natural gas
Heating system	Natural gas heating (existing system)
Water heating system	Natural gas heating
Date of the building evaluation	2011





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Temperature for thermal comfort in summertime: 26 °C

Local limits for heating demand: 44,65 kWh/m²

(limit OIB RL 6, HWB* new building)

Nr.		Title	Must criteria (M)	max. points	evaluated points
Α		Quality of location and facilities		max. 100	62
A	1	Access to public transport network		50	12
A	2	Ecological quality of site		50	50
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В		Process and planning quality		max. 200	130
В	1	Decision making and determination of goals		25	25
В	2	Formulation of verifiable objectives for energetic and ecological measures	М	20	10
В	3	Standardized calculation of the economic efficiency	М	40	0
В	4	Product-management - Use of low-emission products		60	25
В	5	Planning support for energetic optimization		60	55
В	6	nformation for users		25	15
С		Energy & Utilities (Passive house)		max. 350	350
С	1	Specific heating demand (PHPP)	М	100	100
С	2	Specific cooling demand (PHPP)	М	100	100
С	3	Primary energy demand (PHPP)	M	125	125
С	4	CO2-emissions (PHPP)		50	37
D		Health and Comfort		max. 250	120
D	1	Thermal comfort in summer		150	65
D	2	Ventilation - non energetic aspects		50	25
D	3	Daylight optimized (+ lightening optimized)		50	30
Е		Building materials and construction		max. 200	42
Е	1	DI3 _{TGH-Ic} ecological index of the thermal building envelope (respectively OI3 of the total mass of the building)		200	42
Su	Sum max. 1000 704				





Evaluation ENERBUILD-Tool – existing buildings 03 Medical Center Ried im Oberinntal







Name of the building	Medical Center Ried im Oberinntal
Address of the building	Hauptstraße 51, 6531 Ried im Oberinntal
Owner/investor	-
Year of construction	2009-2010
Building type	massive construction (refurbishment), solid wood construction (new)
Building method	
Number of buildings	2 (existing + new)
Number of levels above earth	3 (ground, second, attic floor)
Number of levels underground	1
Kind of the public use	Medical center
Effective area for public use in m 2 (net)	498 m²
Additional private uses	Residential use
Effective area for private use in m² (net)	238 m²
Total effective area in m ²	736 m²
Source of energy for heating	Electric energy and ground water
Heating system	Ground water heat pump
Water heating system	Ground water heat pump
Date of the building evaluation	2011

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Temperature for thermal comfort in summertime: 26 °C

Local limits for heating demand: 50,00 kWh/m² (limit reconstruction)

40,85 kWh/m² (limit new building)

Nr.		Title	Must criteria (M)	max. points	evaluated points	
Α		Quality of location and facilities		max. 100		
Α	1	Access to public transport network		50	6	
Α	2	Ecological quality of site		50	50	
В		Process and planning quality		max. 200		
В	1	Decision making and determination of goals		25	25	
В	2	Formulation of verifiable objectives for energetic and ecological measures	М	20	15	
В	3	Standardized calculation of the economic efficiency	М	40	0	
В	4	Product-management - Use of low-emission products		60	25	
В	5	Planning support for energetic optimization		60	55	
В	6	nformation for users		25	10	
С		Energy & Utilities (Passive house)		max. 350		
С	1	Specific heating demand (PHPP)	М	100	82	
С	2	Specific cooling demand (PHPP)	М	100	55	
С	3	Primary energy demand (PHPP)	М	125	0	
С	4	CO2-emissions (PHPP)		50	0	
D		Health and Comfort		max. 250		
D	1	Thermal comfort in summer		150	65	
D	2	Ventilation - non energetic aspects		50	25	
D	3	Daylight optimized (+ lightening optimized)		50	10	
Е		Building materials and construction		max. 200		
Е	1	OI3 _{TGH-Ic} ecological index of the thermal building envelope (respectively OI3 of the total mass of the building)		200	102	
Su	m			max. 1000	525	





Evaluation ENERBUILD-Tool – existing buildings 01 Polytechnical School Landeck







Name of the building	Polytechnical School Landeck
Address of the building	Prandtauerweg 19, 6500 Landeck
Owner/investor	Gemeinde Landeck
Year of construction	2007 - 2008
Building type	massive construction, timber frame construction
Building method	
Number of buildings	1
Number of levels above earth	4
Number of levels underground	1
Kind of the public use	school
Effective area for public use in m 2 (net)	3.700 m²
Additional private uses	-
Effective area for private use in m ² (net)	-
Total effective area in m ²	3.700 m²
Source of energy for heating	Wood pellets
Heating system	Wood pellet heating
Water heating system	Wood pellet heating
Date of the building evaluation	2011





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Temperature for thermal comfort in summertime: 26 °C

Local limits for heating demand: 37,05 kWh/m²

(limit OIB RL 6, HWB* new building)

Nr.		Title	Must criteria (M)	max. points	evaluated points		
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Α		Quality of location and facilities		max. 100	62		
A	1	Access to public transport network		50	12		
Α	2	Ecological quality of site		50	50		
		T	_	1			
В		Process and planning quality		max. 200	160		
В	1	Decision making and determination of goals		25	25		
В	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	15		
В	3	Standardized calculation of the economic efficiency	M	40	0		
В	4	Product-management - Use of low-emission products		60	45		
В	5	Planning support for energetic optimization		60	60		
В	6	nformation for users		25	15		
С		Energy & Utilities (Passive house)		max. 350	350		
С	1	Specific heating demand (PHPP)	М	100	100		
С	2	Specific cooling demand (PHPP)	М	100	100		
С	3	Primary energy demand (PHPP)	М	125	125		
С	4	CO2-emissions (PHPP)		50	41		
D		Health and Comfort		max. 250	120		
D	1	Thermal comfort in summer		150	65		
D	2	Ventilation - non energetic aspects		50	25		
D	3	Daylight optimized (+ lightening optimized)		50	30		
Е		Building materials and construction		max. 200	123		
Е	1	DI3 _{TGH-lc} ecological index of the thermal building envelope (respectively OI3 of the total mass of the building)		200	123		
Su	m			max. 1000	815		