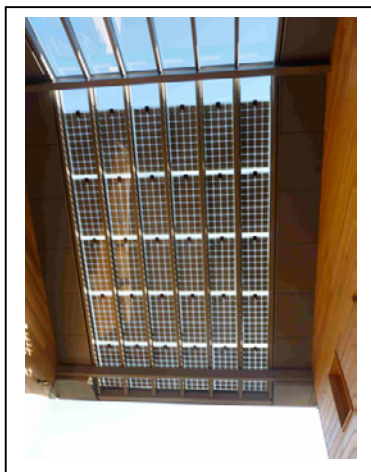


## Evaluation ENERBUILD-Tool – existing buildings

### Ateliers municipaux Bassens, Savoie (73), France



#### 1 Basic information about the building

Name of the building	Ateliers municipaux de la commune de Bassens
Address of the building	Avenue de Mérande 73000 Bassens
Owner/investor	Mairie de Bassens
Year of construction	2009-2010
Building type	Tertiary
Building method	Structure with wood frame and concrete
Number of buildings	2
Number of levels above earth	2
Number of levels underground	0
Kind of the public use	Technical locals
Effective area for public use in m <sup>2</sup> (net)	
Additional private uses	
Effective area for private use in m <sup>2</sup> (net)	
Total effective area in m <sup>2</sup>	345 m <sup>2</sup>
Source of energy for heating	Gas
Heating system	Heat boiler
Water heating system	Solar thermal with auxiliary gaz
Date of the building evaluation	16/12/2010

## 2 Execution of the building evaluation with the ENERBUILD tool

Responsible Organisation: ASDER ( Association Savoyarde de Développement des Energies Renouvelables), local energy agency

Contact person: Delphine Mugnier - Karine Le Diouron

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[karine.lediouron@asder.asso.fr](mailto:karine.lediouron@asder.asso.fr)

Temperature for thermal comfort in summertime: 28 °C

Local limits for heating demand: RT 2005 130 kWh/an/m<sup>2</sup>

## 3 Results

Nr.		Title	Must criteria (M)	max. points	evaluated points
<b>A</b>		<b>Quality of location and facilities</b>		<b>max. 100</b>	<b>76</b>
A	1	Access to public transport network		50	26
A	2	Ecological quality of site		50	50
<b>B</b>		<b>Process and planning quality</b>		<b>max. 200</b>	<b>60</b>
B	1	Decision making and determination of goals		25	10
B	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	20
B	3	Standardized calculation of the economic efficiency	M	40	0
B	4	Product-management - Use of low-emission products		60	10
B	5	Planning support for energetic optimization		60	20
B	6	Information for users		25	0
<b>C</b>		<b>Energy &amp; Utilities (Passive house)</b>		<b>max. 350</b>	<b>321</b>
C	1	Specific heating demand (PHPP)	M	100	46
C	2	Specific cooling demand (PHPP)	M	100	100
C	3	Primary energy demand (PHPP)	M	125	125
C	4	CO <sub>2</sub> -emissions (PHPP)		50	50
<b>D</b>		<b>Health and Comfort</b>		<b>max. 250</b>	<b>0</b>
D	1	Thermal comfort in summer		150	0
D	2	Ventilation - non energetic aspects		50	0
D	3	Daylight optimized (+ lightening optimized)		50	0
<b>E</b>		<b>Building materials and construction</b>		<b>max. 200</b>	<b>175</b>
E	1	OI <sub>3</sub> <sub>TGH-ic</sub> ecological index of the thermal building envelope (respectively OI <sub>3</sub> of the total mass of the building)		200	175
<b>Sum</b>				<b>max. 1000</b>	<b>632</b>

## Evaluation ENERBUILD-Tool – Building in planning phase

### Day-care nursery centre of Communauté de Communes de la Combe de Savoie et du Gelon Coisin



#### 1 Basic information about the building

Name of the building	Day-care nursery centre of Communauté de Communes de la Combe de Savoie et du Gelon Coisin
Address of the building	73250, Saint Jean de la porte, Savoie, France
Owner/investor	Communauté de communes de la Combe de Savoie
Year of construction	2010-2011
Building type	Day-care nursery centre
Building method	Wood frame
Number of buildings	1
Number of levels above earth	1
Number of levels underground	0
Kind of the public use	Day care nursery centre
Effective area for public use in m <sup>2</sup> (net)	309
Additional private uses	
Effective area for private use in m <sup>2</sup> (net)	
Total effective area in m <sup>2</sup>	309
Source of energy for heating	Wood pellets
Heating system	Automatic condensing boiler
Water heating system	Solar thermal
Date of the building evaluation	06/12/2010

## 2 Execution of the building evaluation with the ENERBUILD tool

Responsible Organisation: ASDER (Association de Développement des Energies Renouvelables),  
Local energy agency

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[karine.lediouron@asder.asso.fr](mailto:karine.lediouron@asder.asso.fr)

Temperature for thermal comfort in summertime: 28 °C

Local limits for heating demand: RT 2005 130 kWh/an/m<sup>2</sup>

## 3 Results

Nr.		Title	Must criteria (M)	max. points	evaluated points
<b>A</b>					
		Quality of location and facilities		max. 100	25
A	1	Access to public transport network		50	0
A	2	Ecological quality of site		50	25
<b>B</b>					
		Process and planning quality		max. 200	135
B	1	Decision making and determination of goals		25	25
B	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	20
B	3	Standardized calculation of the economic efficiency	M	40	0
B	4	Product-management - Use of low-emission products		60	60
B	5	Planning support for energetic optimization		60	30
B	6	Information for users		25	0
<b>C</b>					
		Energy & Utilities (Passive house)		max. 350	350
C	1	Specific heating demand (PHPP)	M	100	100
C	2	Specific cooling demand (PHPP)	M	100	100
C	3	Primary energy demand (PHPP)	M	125	125
C	4	CO <sub>2</sub> -emissions (PHPP)		50	50
<b>D</b>					
		Health and Comfort		max. 250	150
D	1	Thermal comfort in summer		150	150
D	2	Ventilation - non energetic aspects		50	0
D	3	Daylight optimized (+ lightening optimized)		50	0
<b>E</b>					
		Building materials and construction		max. 200	115
E	1	OI <sub>3TGH,c</sub> ecological index of the thermal building envelope (respectively OI <sub>3</sub> of the total mass of the building)		200	115
Sum				max. 1000	775

## Evaluation ENERBUILD-Tool – existing buildings [Social housing la Terrasse]



### 1 Basic information about the building

Name of the building	La Petite Chartreuse
Address of the building	243, route de Montabon, 38660 La Terrasse (France)
Owner/investor	PLURALIS
Year of construction	2009
Building type	6 dwellings in social housing
Building method	Wood frame
Number of buildings	2 ( 4 dwelligs and 2 dwellings)
Number of levels above earth	2
Number of levels underground	0
Kind of the public use	Dwellings
Effective area for public use in m <sup>2</sup> (net)	0
Additional private uses	Dwellings
Effective area for private use in m <sup>2</sup> (net)	400
Total effective area in m <sup>2</sup>	400
Source of energy for heating	Heat pump
Heating system	Hydraulic
Water heating system	Solar thermal and heat pump
Date of the building evaluation	Decelber 2010

## 2 Execution of the building evaluation with the ENERBUILD tool

Responsible Organisation: AGEDEN (local energy agency of Isère)

Contact person: Benjamin DENHARD

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Email: bdenhard@ageden.org

Temperature for thermal comfort in summertime: 27°C

Local limits for heating demand: 50 kWh/m<sup>2</sup>

## 3 Results

Nr.		Title	Must criteria (M)	max. points	evaluated points
<b>A</b>		<b>Quality of location and facilities</b>		<b>max. 100</b>	<b>86</b>
A	1	Access to public transport network		50	36
A	2	Ecological quality of site		50	50
<b>B</b>		<b>Process and planning quality</b>		<b>max. 200</b>	<b>200</b>
B	1	Decision making and determination of goals		25	25
B	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	25
B	3	Standardized calculation of the economic efficiency	M	40	40
B	4	Product-management - Use of low-emission products		60	60
B	5	Planning support for energetic optimization		60	60
B	6	information for users		25	25
<b>C</b>		<b>Energy &amp; Utilities (Passive house)</b>		<b>max. 350</b>	<b>219</b>
C	1	Specific heating demand (PHPP)	M	100	92,5
C	2	Specific cooling demand (PHPP)	M	100	100
C	3	Primary energy demand (PHPP)	M	125	16,5
C	4	CO <sub>2</sub> -emissions (PHPP)		50	10
<b>D</b>		<b>Health and Comfort</b>		<b>max. 250</b>	<b>50</b>
D	1	Thermal comfort in summer		150	0
D	2	Ventilation - non energetic aspects		50	0
D	3	Daylight optimized (+ lightening optimized)		50	50
<b>E</b>		<b>Building materials and construction</b>		<b>max. 200</b>	<b>200</b>
E	1	OI <sub>3</sub> <sub>TGH-1c</sub> ecological index of the thermal building envelope (respectively OI <sub>3</sub> of the total mass of the building)		200	200
<b>Sum</b>				<b>max. 1000</b>	<b>755</b>



# Evaluation ENERBUILD-Tool – existing buildings

## Les Jardins d'Eden



### 1 Basic information about the building

Name of the building	Les Jardins d'Eden (OPAC) Aix-les-Bains
Address of the building	Rue des Moellerons 73100 AIX LES BAINS, Savoie, France
Owner/investor	OPAC de Savoie ( Social housing)
Year of construction	2008-2009
Building type	Social housing
Building method	Concrete with exterior insulation
Number of buildings	1
Number of levels above earth	R+4
Number of levels underground	1
Kind of the public use	44 apartments
Effective area for public use in m <sup>2</sup> (net)	
Additional private uses	
Effective area for private use in m <sup>2</sup> (net)	
Total effective area in m <sup>2</sup>	4 990,38 m <sup>2</sup>
Source of energy for heating	Gas
Heating system	Collective condensing gas boiler with heating floor
Water heating system	Solar thermal with auxiliary condensing gas boiler
Date of the building evaluation	16/12/2010

## 2 Execution of the building evaluation with the ENERBUILD tool

Responsible Organisation: ASDER (Association de Développement des Energies Renouvelables),  
Local energy agency

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[karine.lediouron@asder.asso.fr](mailto:karine.lediouron@asder.asso.fr)

Temperature for thermal comfort in summertime: 28 °C

Local limits for heating demand: 50 kWh/m<sup>2</sup> for heating, hot water, lighting and auxiliaries

## 3 Results

Nr.		Title	Must criteria (M)	max. points	evaluated points
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<b>A</b>		<b>Quality of location and facilities</b>		max. 100	100
A	1	Access to public transport network		50	50
A	2	Ecological quality of site		50	50

<b>B</b>		<b>Process and planning quality</b>		max. 200	110
B	1	Decision making and determination of goals		25	25
B	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	0
B	3	Standardized calculation of the economic efficiency	M	40	0
B	4	Product-management - Use of low-emission products		60	0
B	5	Planning support for energetic optimization		60	60
B	6	information for users		25	25

<b>C</b>		<b>Energy &amp; Utilities (Passive house)</b>		max. 350	243
C	1	Specific heating demand (PHPP)	M	100	76
C	2	Specific cooling demand (PHPP)	M	100	100
C	3	Primary energy demand (PHPP)	M	125	24
C	4	CO <sub>2</sub> -emissions (PHPP)		50	43

<b>D</b>		<b>Health and Comfort</b>		max. 250	0
D	1	Thermal comfort in summer		150	0
D	2	Ventilation - non energetic aspects		50	0
D	3	Daylight optimized (+ lightening optimized)		50	0

<b>E</b>		<b>Building materials and construction</b>		max. 200	162
E	1	OI <sub>3</sub> <sup>TGH-ic</sup> ecological index of the thermal building envelope (respectively OI <sub>3</sub> of the total mass of the building)		200	162
<b>Sum</b>				max. 1000	615



# Evaluation ENERBUILD-Tool – Building in planning phase

## [Maison du territoire du Vercors]



### 1 Basic information about the building

Name of the building	Maison du territoire du Vercors
Address of the building	150, impasse Meillarot 38250 Villard de Lans, France
Owner/investor	Conseil général de l'isère
Year of construction	2011
Building type	Tertiary
Building method	Wood frame
Number of buildings	1
Number of levels above earth	2
Number of levels underground	1
Kind of the public use	offices
Effective area for public use in m <sup>2</sup> (net)	911
Additional private uses	1 dwelling
Effective area for private use in m <sup>2</sup> (net)	72
Total effective area in m <sup>2</sup>	983
Source of energy for heating	Pellets
Heating system	Hydraulic
Water heating system	Solar thermal and wood
Date of the building evaluation	December 2010

## 2 Execution of the building evaluation with the ENERBUILD tool

Responsible Organisation: AGEDEN ( local energy agency)

Contact person: Benjamin DENHARD

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Email: bdenhard@ageden.org

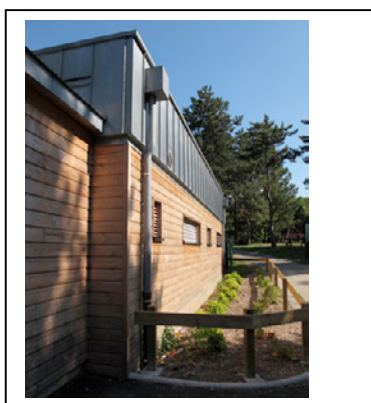
Temperature for thermal comfort in summertime: 27°C

Local limits for heating demand: PHPP 15 kWh/m<sup>2</sup>.an

## 3 Results

Nr.		Title	Must criteria (M)	max. points	evaluated points
<b>A</b>					
		Quality of location and facilities		max. 100	80
A	1	Access to public transport network		50	30
A	2	Ecological quality of site		50	50
<b>B</b>					
		Process and planning quality		max. 200	174
B	1	Decision making and determination of goals		25	24
B	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	20
B	3	Standardized calculation of the economic efficiency	M	40	40
B	4	Product-management - Use of low-emission products		60	60
B	5	Planning support for energetic optimization		60	30
B	6	Information for users		25	0
<b>C</b>					
		Energy & Utilities (Passive house)		max. 350	350
C	1	Specific heating demand (PHPP)	M	100	100
C	2	Specific cooling demand (PHPP)	M	100	100
C	3	Primary energy demand (PHPP)	M	125	125
C	4	CO <sub>2</sub> -emissions (PHPP)		50	50
<b>D</b>					
		Health and Comfort		max. 250	200
D	1	Thermal comfort in summer		150	150
D	2	Ventilation - non energetic aspects		50	0
D	3	Daylight optimized (+ lightening optimized)		50	50
<b>E</b>					
		Building materials and construction		max. 200	177
E	1	OI <sub>3</sub> <sub>TGH-ic</sub> ecological index of the thermal building envelope (respectively OI <sub>3</sub> of the total mass of the building)		200	177
<b>Sum</b>				max. 1000	981

## Evaluation ENERBUILD-Tool – existing buildings [Nursery Crèche des papillons]



### 1 Basic information about the building

Name of the building	Crèche des Papillons
Address of the building	10 Allée du Rhin 38130 Echirolles, France
Owner/investor	Ville d'Echirolles
Year of construction	2009
Building type	Nursery
Building method	Wood frame, exterior insulation
Number of buildings	1
Number of levels above earth	1
Number of levels underground	0
Kind of the public use	Nursery for 20 children
Effective area for public use in m <sup>2</sup> (net)	210
Additional private uses	0
Effective area for private use in m <sup>2</sup> (net)	0
Total effective area in m <sup>2</sup>	210
Source of energy for heating	District heating
Heating system	Radiator functioning with hot water
Water heating system	electric
Date of the building evaluation	18/12/2010

## 2 Execution of the building evaluation with the ENERBUILD tool

Responsible Organisation: Agence Locale de l'Energie et du Climat de l'agglomération Grenobloise

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Temperature for thermal comfort in summertime: 27 °C

Local limits for heating demand: 50 kWh/m<sup>2</sup>

## 3 Results

Nr.		Title	Must criteria (M)	max. points	evaluated points
<b>A</b>		<b>Quality of location and facilities</b>		<b>max. 100</b>	<b>96</b>
A	1	Access to public transport network		50	46
A	2	Ecological quality of site		50	50
<b>B</b>		<b>Process and planning quality</b>		<b>max. 200</b>	<b>90</b>
B	1	Decision making and determination of goals		25	25
B	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	0
B	3	Standardized calculation of the economic efficiency	M	40	0
B	4	Product-management - Use of low-emission products		60	10
B	5	Planning support for energetic optimization		60	30
B	6	information for users		25	25
<b>C</b>		<b>Energy &amp; Utilities (Passive house)</b>		<b>max. 350</b>	<b>350</b>
C	1	Specific heating demand (PHPP)	M	100	100
C	2	Specific cooling demand (PHPP)	M	100	100
C	3	Primary energy demand (PHPP)	M	125	125
C	4	CO <sub>2</sub> -emissions (PHPP)		50	50
<b>D</b>		<b>Health and Comfort</b>		<b>max. 250</b>	<b>175</b>
D	1	Thermal comfort in summer		150	150
D	2	Ventilation - non energetic aspects		50	25
D	3	Daylight optimized (+ lightening optimized)		50	0
<b>E</b>		<b>Building materials and construction</b>		<b>max. 200</b>	<b>139</b>
E	1	OI <sub>3</sub> <sub>TGH+c</sub> ecological index of the thermal building envelope (respectively OI <sub>3</sub> of the total mass of the building)		200	139
<b>Sum</b>				<b>max. 1000</b>	<b>850</b>

## Evaluation ENERBUILD-Tool – existing buildings

### Nursery of Chambéry le Haut



#### 1 Basic information about the building

Name of the building	Pôle petite enfance Ferme de Julien
Address of the building	195, rue du Grand champ, 73 000 Chambéry, Savoie, France
Owner/investor	City of Chambéry
Year of construction	2010
Building type	Nursery
Building method	System mixed concrete/wood frame
Number of buildings	1
Number of levels above earth	2
Number of levels underground	0
Kind of the public use	
Effective area for public use in m <sup>2</sup> (net)	618
Additional private uses	
Effective area for private use in m <sup>2</sup> (net)	
Total effective area in m <sup>2</sup>	618
Source of energy for heating	Heat network
Heating system	Heat network
Water heating system	Electric boiler
Date of the building evaluation	15-12-2010

## 2 Execution of the building evaluation with the ENERBUILD tool

Responsible Organisation: ASDER (Association de Développement des Energies Renouvelables),  
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[karine.lediouron@asder.asso.fr](mailto:karine.lediouron@asder.asso.fr)

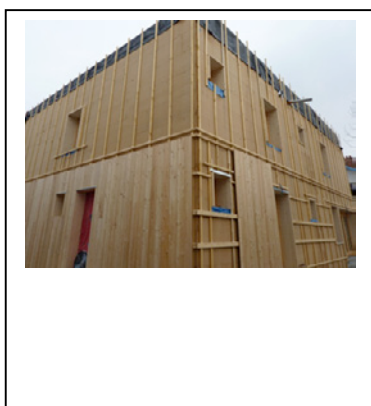
Temperature for thermal comfort in summertime: 28 °C

Local limits for heating demand: RT 2005 130 kWh/an/m<sup>2</sup>

## 3 Results

Nr.		Title	Must criteria (M)	max. points	evaluated points
<b>A</b>		<b>Quality of location and facilities</b>		<b>max. 100</b>	<b>68</b>
A	1	Access to public transport network		50	18
A	2	Ecological quality of site		50	50
<b>B</b>		<b>Process and planning quality</b>		<b>max. 200</b>	<b>145</b>
B	1	Decision making and determination of goals		25	25
B	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	0
B	3	Standardized calculation of the economic efficiency	M	40	0
B	4	Product-management - Use of low-emission products		60	60
B	5	Planning support for energetic optimization		60	60
B	6	Information for users		25	0
<b>C</b>		<b>Energy &amp; Utilities (Passive house)</b>		<b>max. 350</b>	<b>128</b>
C	1	Specific heating demand (PHPP)	M	100	0
C	2	Specific cooling demand (PHPP)	M	100	100
C	3	Primary energy demand (PHPP)	M	125	0
C	4	CO <sub>2</sub> -emissions (PHPP)		50	28
<b>D</b>		<b>Health and Comfort</b>		<b>max. 250</b>	<b>200</b>
D	1	Thermal comfort in summer		150	150
D	2	Ventilation - non energetic aspects		50	50
D	3	Daylight optimized (+ lightening optimized)		50	0
<b>E</b>		<b>Building materials and construction</b>		<b>max. 200</b>	<b>140</b>
E	1	OI <sub>3</sub> <sub>TGH-IC</sub> ecological index of the thermal building envelope (respectively OI <sub>3</sub> of the total mass of the building)		200	140
<b>Sum</b>				<b>max. 1000</b>	<b>681</b>

## Evaluation ENERBUILD-Tool – existing buildings [OPERATION BUISSON]



### 1 Basic information about the building

Name of the building	Opération Buisson, 3 Logements sociaux collectifs
Address of the building	70 Impasse des Belledonnes 73000 BASSENS, Savoie, France
Owner/investor	Foncière d'Habitat et Humanisme (Social housing)
Year of construction	2010
Building type	Collective housing
Building method	Wood frame
Number of buildings	1
Number of levels above earth	R+1
Number of levels underground	
Kind of the public use	Social housing for rent
Effective area for public use in m <sup>2</sup> (net)	
Additional private uses	
Effective area for private use in m <sup>2</sup> (net)	
Total effective area in m <sup>2</sup>	193,5
Source of energy for heating	Wood pellets
Heating system	Automatic boiler
Water heating system	Collective solar thermal hot water, auxiliary wood pellets
Date of the building evaluation	05/11/2010



## 2 Execution of the building evaluation with the ENERBUILD tool

Responsible Organisation: ASDER (Association de Développement des Energies Renouvelables),  
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[karine.lediouron@asder.asso.fr](mailto:karine.lediouron@asder.asso.fr)

Temperature for thermal comfort in summertime: 28 °C

Local limits for heating demand: RT 2005 130 kWh/an/m<sup>2</sup>

## 3 Results

Nr.		Title	Must criteria (M)	max. points	evaluated points
<b>A</b>		<b>Quality of location and facilities</b>		<b>max. 100</b>	<b>58</b>
A	1	Access to public transport network		50	20
A	2	Ecological quality of site		50	38
<b>B</b>		<b>Process and planning quality</b>		<b>max. 200</b>	<b>150</b>
B	1	Decision making and determination of goals		25	25
B	2	Formulation of verifiable objectives for energetic and ecological measures	M	20	20
B	3	Standardized calculation of the economic efficiency	M	40	40
B	4	Product-management - Use of low-emission products		60	10
B	5	Planning support for energetic optimization		60	30
B	6	Information for users		25	25
<b>C</b>		<b>Energy &amp; Utilities (Passive house)</b>		<b>max. 350</b>	<b>327</b>
C	1	Specific heating demand (PHPP)	M	100	52
C	2	Specific cooling demand (PHPP)	M	100	100
C	3	Primary energy demand (PHPP)	M	125	125
C	4	CO <sub>2</sub> -emissions (PHPP)		50	50
<b>D</b>		<b>Health and Comfort</b>		<b>max. 250</b>	<b>150</b>
D	1	Thermal comfort in summer		150	150
D	2	Ventilation - non energetic aspects		50	0
D	3	Daylight optimized (+ lightening optimized)		50	0
<b>E</b>		<b>Building materials and construction</b>		<b>max. 200</b>	<b>140</b>
E	1	OI <sub>3</sub> <sub>TGH-IC</sub> ecological index of the thermal building envelope (respectively OI <sub>3</sub> of the total mass of the building)		200	140
<b>Sum</b>				<b>max. 1000</b>	<b>825</b>