

PROJECT CHECKLIST - EXISTING BUILDING

| | | | |
|---------------------------------|--|----------------|--|
| IMMOSOLAR Representative | | e-mail: | |
| Name, First Name: | | | |


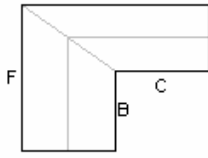
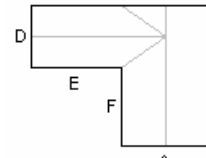
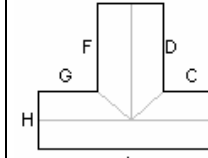
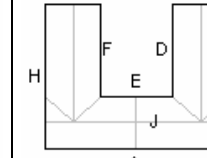
| | |
|------------------------|----------------|
| Project address | |
| Street/No.: | ZIP-Code/City: |

| | | | |
|--|--|----------------|------|
| Name, Address of Building Owner | | e-mail: | |
| Name, First Name: | | Tel: | FAX: |
| Street/No.: | | ZIP-Code/City: | |

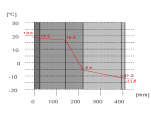
| | | | | | | | |
|----------------------------|--|----------------|--|------------------|--|---------------------|--|
| Offer to: Architect | | Planner | | Installer | | End Customer | |
| Name, First Name: | | Tel: | | FAX: | | | |
| Street/No.: | | ZIP-Code/City: | | | | | |

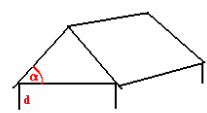

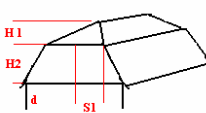
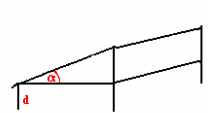

| | | | |
|--|---|---|--|
| Type of Building | | Heated Living Surface:.....m² | |
| Single detached House | Two-family Row House, end unit | Multi-family Row House, middle unit | |
| Row House (1 family/ 4-Bed), end unit | Row House (2 families/ 8 bed), end unit | Other: | |
| Row House (1 family/ 4-Bed), middle unit | Multi-family detached house | | |
| Two-family detached house | Multi-family Row House, end unit | | |

Please enclose information about heat demand, plan of the building if available.

| | | | | |
|---|---|---|--|---|
| Ground plan: | | Year of construction: | | |
|  |  |  |  |  |

| | | | | | | | |
|------------------------------------|--------|---|--------|---------------------------------------|--|----|----|
| Building size Measurements: | | | | Orientation of building side A | | | |
| side | length | side | length | | | N | W |
| A | m | F | m | | | NE | NW |
| B | m | G | m | | | E | |
| C | m | H | m | | | SE | |
| D | m | J | m | | | S | |
| E | m | If annex: add sketch on separate sheet! | | | | SW | |

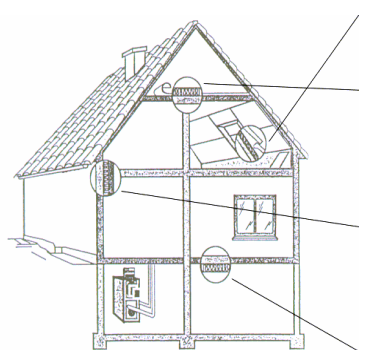
| | | |
|---|-----------------------------|----------------------|
| Thermal conductance | Part of the building | U Value |
|  | Roof | W/m ² · K |
| | Top level ceiling | W/m ² · K |
| | Exterior walls | W/m ² · K |
| | Basement slab | W/m ² · K |
| | Ceiling | W/m ² · K |
| | Windows | W/m ² · K |

| Shape of roof | | | | |
|---|---|---|--|---|
| Gabled roof | Hipped roof | Half-Hipped roof | Pent roof | Flat roof |
|  |  |  |  |  |
| α (slope) d (height of highest ceiling) m | α (slope 1) β (slope 2) d (height of highest ceiling) m | H1 m H2 m S1 m | α (slope) d (height of highest ceiling) m | No data required |
| Heated attic | Partly finished attic | No. of attics: | Height of attics: | m |
| Roof material | | | | |
| clay tiles | concrete tiles | slate | other : | |
| flat roof | bitumen | green roof | | |

Area for solar thermal collectors (L x B):.....orientation.....

| Glas panes | | | |
|------------|--------------------|--------------------|-----------------------|
| | single glas window | double glas window | heat insulated window |
| walls | m ² | m ² | m ² |
| roof | m ² | m ² | m ² |

| Basement and storeys | | | | | |
|----------------------|---|--------|----------|---|---------------|
| floors | | | basement | | |
| height per storey | m | number | height | m | underground % |
| | | | | | |

| Planned heat insulation measures | | | |
|---|--------------------|----|----------------|
|  | roof | cm | m ² |
| | top level ceiling | cm | m ² |
| | 1. wall insulation | cm | m ² |
| | 2. wall insulation | cm | m ² |
| | basement ceiling | cm | m ² |

| Heating system: | | | |
|---|--|---|-------------------------------|
| type of boiler | | | |
| type of fuel | | calorific value (only for gas) | kWh/(m ³ ,kg,l,..) |
| type of controller | | | |
| heat output capacity | | kW | year of boiler construction |
| number of heating circuits | | | |
| fuel consumption per year (m ³ ,kg,l,..)/a | | | |
| exhaust gas loss % | | medium central heating room temperatur °C | |
| | | exhaust gas temperatur °C | |
| | | CO ₂ or O ₂ (please indicate) Vol % | |
| night-time heating reduction exists | | night-time heating switch-off exists | |
| Do not exchange the heating system | | Heating system in housing area | |

| | |
|--|--|
| central heating room | |
| location (e.g. basement): | |
| room size (l x w x h) | |
| minimum doorsize (for bring-in of equipment) | |

| | | | |
|---|----------|-----------------------------|---------------|
| Additional heating systems | | | |
| type of heating system | | | |
| heat output capacity | kW | hours of operation per year | h/a |
| or type of fuel | | or quantity of fuel | (l,kg,Ster)/a |
| Heating system: | | | |
| Which system temperature is required? (°C) | | | |
| 35/30 °C | 45/55 °C | 70/60 °C | 90/70 °C |

| | | | |
|-----------------------------|---|---------------------------|---|
| Solar system | | | |
| Share of warmwater coverage | % | Share of heating coverage | % |

| | | | |
|--|-----------|---|---|
| Hot water generation | | | |
| central | decentral | | |
| Number of occupants..... | | | |
| Hot water demand per person per day..... | | Example: 30l low / 40l normal / 50 l high | |
| HW – cycle system | | | |
| circulation | yes | no | Time-controlled or temperature-controlled? yes no |
| | | | If yes... time- or temperature |

| | | |
|---------------------------|----------|------------------|
| Storage | | |
| manufacturer | capacity | Combined storage |
| number of heat exchangers | | |
| adapter for heating rod | yes | no |

| | | | |
|------------------------------|-----------|---------------|--|
| Additional demand by: | | | |
| Swimming pool | Whirlpool | Multi showers | |
| other : | | | |

!!For additional demands: size, capacity, needed temperatures, flow rate and technical data are needed!!

| | | | |
|--|---------|---------------|--|
| The following System is required: | | | |
| EMS |kW | other : | |
| Compact Heat Pump |kW | | |
| Heat pump |kW | | |

Is a "fast heat-up" option for the building according to the DIN EN 12638 required?

Yes No

The customer was informed about the consequences of the "fast heat-up" option and the effects on the system efficiency and the consumption.

Yes No

Signature of Customer..... Signature of IMMOSOLAR Representative.....

Delivered for processing at (date)