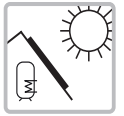


# SOLAR THERMAL SYSTEM QUESTIONNAIRE REGARDING SYSTEM ENGINEERING AND SYSTEM DESIGN



Please complete the following fields fully on your PC. Print out and **sign** the questionnaire and then send it to the relevant sales partner.

## 1. Project data

Sender	
Sales partner	_____
Cust. no. / Completed by	_____
Company	_____
Contact	_____
Telephone / Mobile	_____
Fax / Email	_____
Street, no.	_____
Postal code, town	_____
Country	_____

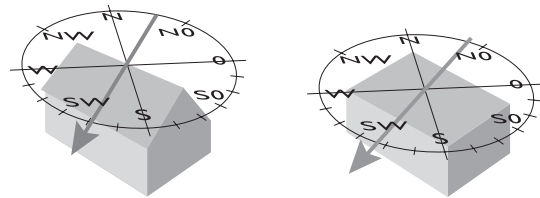
Intended build	
Building owner / Project	_____
Contact	_____
Telephone / Mobile	_____
Fax / Email	_____
Street, no. (place of construction)	_____
Postal code (place of construction)	_____
Country	_____
Comments on intended build	_____

## 2. Building details

Building plans and utilisation	
Current building plans with dimensions enclosed	_____
Private use	_____
Commercial or public use	_____
Detached house	_____
Year of build	_____
Apartment building	_____
Year of build	_____
Residential units	_____
Non-residential buildings	_____
Type:	_____
Number of rooms	_____

### Orientation of the building and roof area

Orientation of collector roof area that can be utilised \_\_\_\_\_



### Type of roof and installation

Tiled roof	_____
Roof integration	_____
Rooftop installation	_____
Slate roof	_____
Plain tile roof	_____
Corrugated roof	_____
Wall mounting	_____
Flat roof	_____
Horizontal collector installation	_____
Vertical collector installation	_____

### Roof dimensions and installation location

Roof area that can be utilised, excl. side roof overhang (in m<sup>2</sup>) \_\_\_\_\_

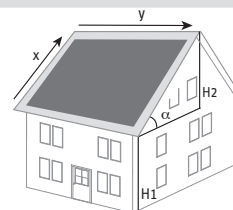
x (in m) \_\_\_\_\_

y (in m) \_\_\_\_\_

Height of eaves (in m; H1 in m) \_\_\_\_\_

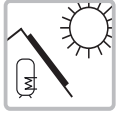
Ridge height (in m; H1 + H2 in m) \_\_\_\_\_

Roof pitch angle (in <sup>°</sup>) \_\_\_\_\_



H1 = height of eaves  
 H1 + H2 = ridge height  
 $\alpha$  = roof pitch angle

# SOLAR THERMAL SYSTEM QUESTIONNAIRE REGARDING SYSTEM ENGINEERING AND SYSTEM DESIGN



### 3. System information

<b>Solar thermal system</b>	
For DHW heating	Single pipe length from collector to cylinder (in m)
For central heating backup	Installation with matching Stiebel Eltron connection line
For swimming pool water heating	With heat metering?

#### 3.1 Cylinder system

<b>Connection of existing cylinders</b>	
<b>DHW cylinder connection</b>	<b>Central heating cylinder connection</b>
Number	Number
Type	Type
Description	Description
Capacity (litres)	Capacity (litres)
Heat exchanger surface area (m <sup>2</sup> )	Heat exchanger surface area (m <sup>2</sup> )

<b>Connection of cylinders to be designed:</b>	
<b>DHW cylinder connection</b>	<b>Central heating cylinder connection</b>
Type	Type
Specification by Stiebel Eltron	Specification by Stiebel Eltron

#### 3.2 DHW heating

<b>DHW demand per day and person</b>	
Number of occupants	Required value (l/person at 45 °C)
Approx. 30 l at 45 °C, $\Delta$ low consumption	Own calculation of value
Approx. 40 l at 45 °C, $\Delta$ average consumption	Oil, gas, direct electrical, solid fuel reheating
Approx. 50 l at 45 °C, $\Delta$ high consumption	Reheating with heat pump
	Reheating output (in kW)

<b>DHW circulation line</b>	
With DHW circulation line	Excl. DHW circulation line

<b>Annual coverage required</b>	
Approx. 40%	Approx. 60%
Approx. 50%	Own value (in %)

#### 3.3 Central heating backup

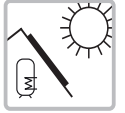
<b>Solar heating backup</b>		
Heat load to DIN EN 12831 (in kW)		
<b>Heat exchanger</b>	Flow °C	Return °C
Area heating system		
Heating system with radiators		
Fan convectors		

#### 3.5 Other information

e.g. required collector type, details of country-specific standards, special roof shapes

#### 3.4 Swimming pool

<b>Swimming pool</b>	
Indoor pool	
Open air pool	
Usage period from:	to:
With swimming pool cover	
Length, in metres	
Width, in metres	
Depth, in metres	
Tile colour	
Oil, gas, direct electrical, solid fuel reheating	
Reheating with heat pump	
Reheating output (in kW)	



**3.6 Printing and sending the design questionnaire**

Printing the design questionnaire

**Printing** Print out and sign your questionnaire and then send it to the relevant sales partner.

**Further construction documents**

The more detailed and accurate the description of your system or building, the more precisely we can plan your project. If you have any further technical drawings, photographs and specifications for the building, please send us a complete set.

**Legal note**

You confirm that the details are complete and correct. We use them as a basis for the design and calculation of your system. We accept no liability for calculations or designs based on incorrect, inaccurate or incomplete details. We accept no liability nor offer any warranty if our design is used for the creation of a system using third party components.

Date

Signature

\_\_\_\_\_