

# Checklist T.Werk GmbH - Mounting systems

## Customer data

Company \_\_\_\_\_  
 Contact person \_\_\_\_\_  
 Phone number \_\_\_\_\_  
 E-mail \_\_\_\_\_

## Project data

Project name \_\_\_\_\_

Project location Street: \_\_\_\_\_ House number: \_\_\_\_\_  
 Postal code: \_\_\_\_\_ Location: \_\_\_\_\_  
 Country: \_\_\_\_\_

Elevation Altitude above sea level (Normal height) \_\_\_\_\_ m

Windload Zone \_\_\_\_\_  $s_k$  \_\_\_\_\_ kN/sqm

Snowload Zone \_\_\_\_\_  $q_p$  \_\_\_\_\_ kN/sqm

## Terrain category

Explanation

- |                            |  |   |   |   |   |
|----------------------------|--|---|---|---|---|
| <input type="checkbox"/> I | <input type="checkbox"/> MP II                       | <input type="checkbox"/> II                     | <input type="checkbox"/> MP I                 | <input type="checkbox"/> III                      | <input type="checkbox"/> VI                     |
| Lakes or coastal area      | Coastal area, from 5km distance from the coast, flat | Flatland with occasional obstacles, Agriculture | Mixed profile inland between TC II and TC III | Suburbs, Industrial and commercial areas, Forests | Urban area, Buildings > 15m in the surroundings |

## PV-Panel details

Module name \_\_\_\_\_

Power \_\_\_\_\_  $W_p$

Dimensions L: \_\_\_\_\_ mm x W: \_\_\_\_\_ mm x H: \_\_\_\_\_ mm

Amount \_\_\_\_\_

Orientation  Horizontal  Vertical

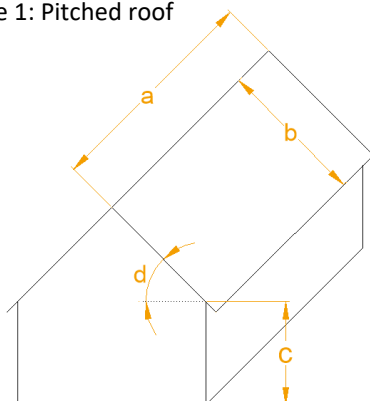
## Roof type

- Gable roof  Pent roof  Shedroof  Hipped roof  Flat roof  Others: \_\_\_\_\_

## Roof details

### Dimensions

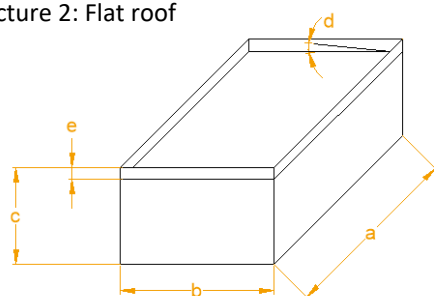
Picture 1: Pitched roof



Length a: \_\_\_\_\_ m  
 Roof depth b: \_\_\_\_\_ m  
 Eaves height c: \_\_\_\_\_ m  
 Inclination angle d: \_\_\_\_\_ °  
 If applicable  
 Roof Width: \_\_\_\_\_ m  
 Others: \_\_\_\_\_ m

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Picture 2: Flat roof



Length a: \_\_\_\_\_ m  
 Width b: \_\_\_\_\_ m  
 Height c: \_\_\_\_\_ m  
 Inclination angle d: \_\_\_\_\_ °  
 Attica height e: \_\_\_\_\_ m

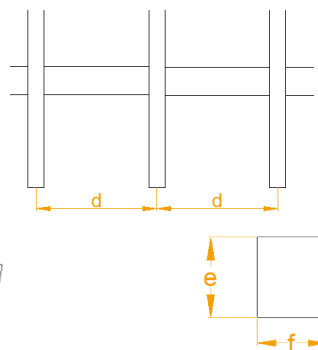
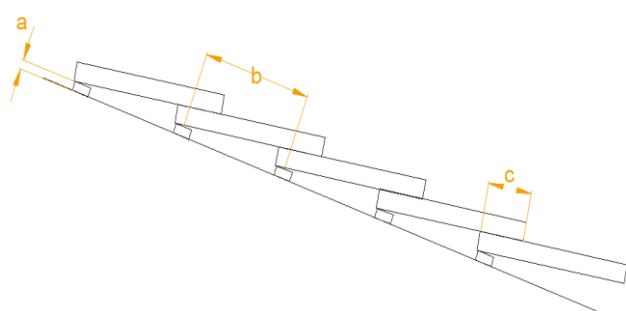
## Roof covering

- |                          |                                      |  |                          |                              |
|--------------------------|--------------------------------------|--|--------------------------|------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/>             | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>     |
| (1)                      | (2)                                  | (3)  | (4)                      | (5)                          |
| Roof tiles               | Trapezoidal and Sandwich sheet metal | Corrugated fiber cement/ Trapezoidal and Sandwich sheet (Hanger bolts) | Sheet metal fold         | Foil Bitumen Gravel Greenery |

Please select below points according to your choice of roofing!

### (1) Details Roof tiles

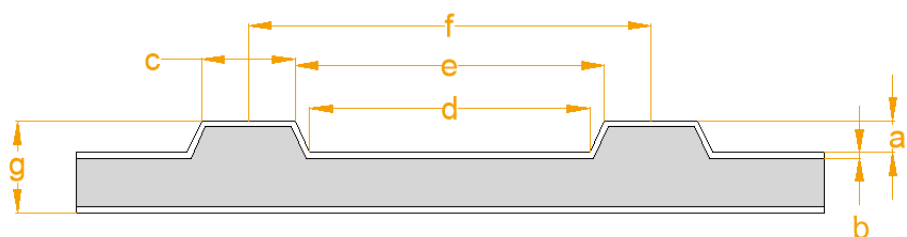
- Rafters  Wood  Steel  Concrete
- Shuttering  No  Yes Details: \_\_\_\_\_
- On-roof insulation  No  Yes Details: \_\_\_\_\_
- Tile type Name: \_\_\_\_\_ Dimensions: W: \_\_\_\_\_ cm H: \_\_\_\_\_ cm
- Replacement tile  No  Yes



Battens:  
 Height a: \_\_\_\_\_ cm  
 Distance b: \_\_\_\_\_ cm  
 Cover width c: \_\_\_\_\_ cm  
 Rafters: Distance d: \_\_\_\_\_ cm  
 Height e: \_\_\_\_\_ cm  
 Width f: \_\_\_\_\_ cm

### (2) Details Trapezoidal and Sandwich sheet metal (Short pieces)

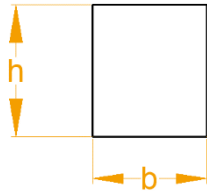
Sheet metal material  Steel  Aluminium Metal thickness b: \_\_\_\_\_ mm



Beading height a: \_\_\_\_\_ mm  
 Beading width c: \_\_\_\_\_ mm  
 Distance below d: \_\_\_\_\_ mm  
 Distance top e: \_\_\_\_\_ mm  
 High bead spacing f: \_\_\_\_\_ mm  
 Total height g: \_\_\_\_\_ mm

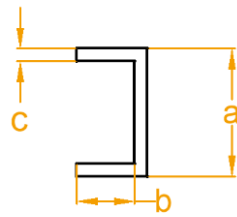
### (3) Details Corrugated fiber cement / Trapezoidal and Sandwich sheet metal (Hanger bolts)

Purlins:  Concrete  Wood  Steel Purlins distance: \_\_\_\_\_ cm



Height a: \_\_\_\_\_ cm

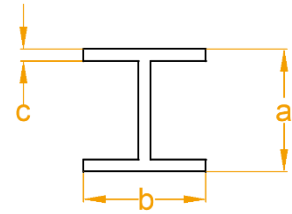
Width b: \_\_\_\_\_ cm



Height a: \_\_\_\_\_ cm

Depth b: \_\_\_\_\_ cm

Strength c: \_\_\_\_\_ cm



Height a: \_\_\_\_\_ cm

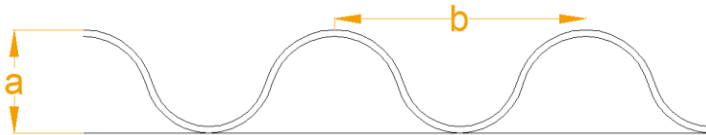
Width b: \_\_\_\_\_ cm

Strength c: \_\_\_\_\_ cm

Roof covering:

Corrugated fiber cement  Trapezoidal sheet metal

Sandwich sheet metal



a: \_\_\_\_\_ mm

b: \_\_\_\_\_ mm

Please fill the dimensions of trapezoidal and sandwich sheet in point (2)

Solar fastener version (Waterproofing hanger bolts)

Sealing washers

Calotte

### (4) Details Sheet Metal Fold

Fold type

Standing seam  Round seam  Kalzip  Zambelli type: \_\_\_\_\_ Others: \_\_\_\_\_

\_\_\_\_\_ Material \_\_\_\_\_ Fold height in mm \_\_\_\_\_ Fold distance in mm \_\_\_\_\_ Fold width in mm \_\_\_\_\_ Sheet thickness in mm

### (5) Details Foil, Bitumen, Gravel and Greenery

Roof covering

Foil / PVC  Bitumen  Gravel  Greenery  Others: \_\_\_\_\_

Manufacturer

(if known)

\_\_\_\_\_

Coefficient of friction

\_\_\_\_\_ (Can be determined by test)

Execution

Triton South 15°  Triton South 12°  Triton East/West (12°)  Roof parallel (Metis solution)

Load reserve

\_\_\_\_\_ kg/m<sup>2</sup>

Row distance

\_\_\_\_\_ m (Measure: Front edge to Front edge)



**Please attach to the checklist (if available):**

- Module allocation plan
- Drawings
- Module datasheet
- Photos from the roof
- Fall protection available?  Take into consideration? \_\_\_\_\_
- Lightning protection available?  Take into consideration? \_\_\_\_\_

**Sketch / Notes:**

Fill in north pointer

