

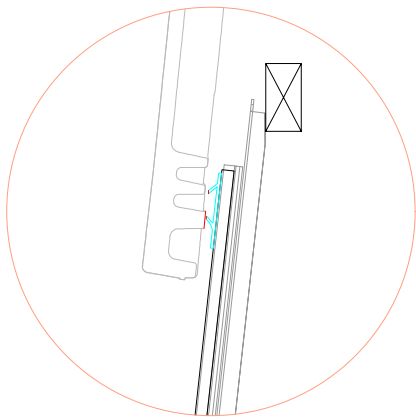
Grid dimensions in height

| V24.10 |

- 1 MATCH Tile hooks 2
- 2 ERLUS LEVEL RS Tile
- 3 Roof battens
- 4 MATCH Tile Modul Fx
- 5 Transition plate with EPDM N (optional)

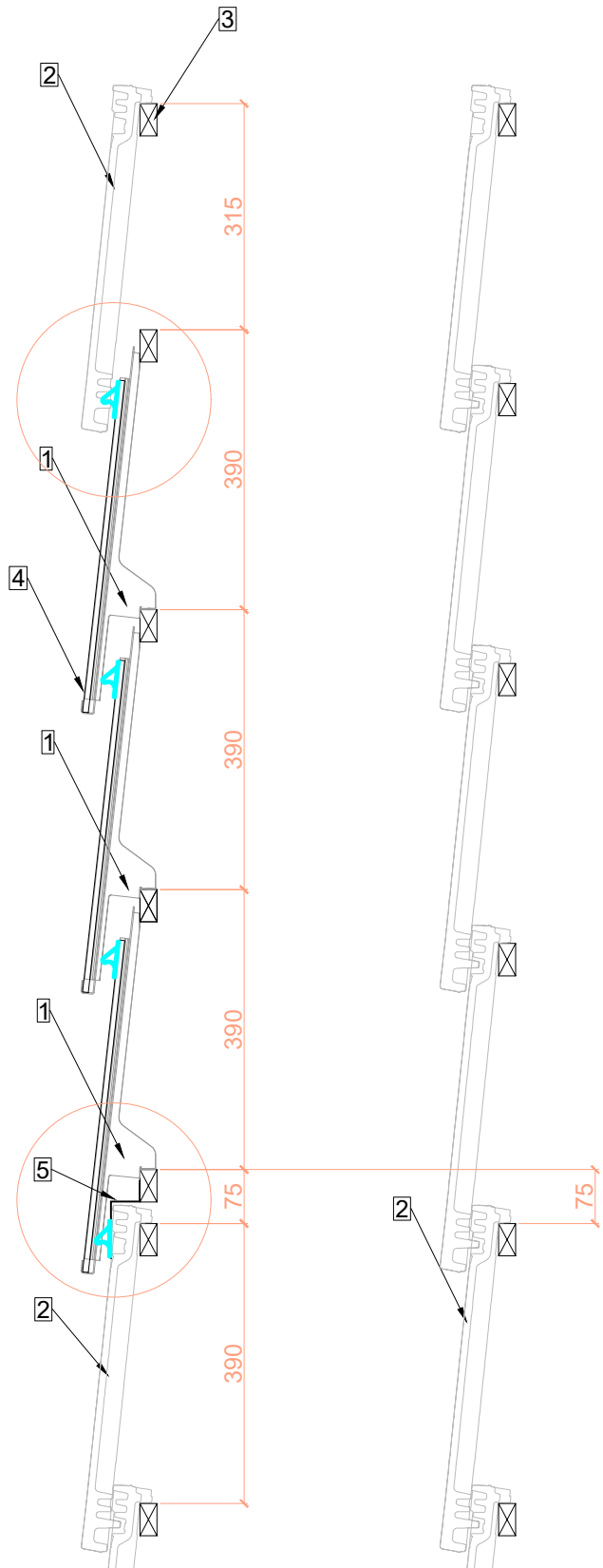
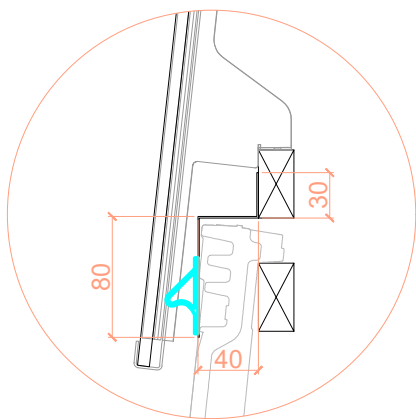
Transition top tile to modules:

Cut off the lower tab of the tile and cut back the tab of the EPDM so that the tile can rest neatly on the module.



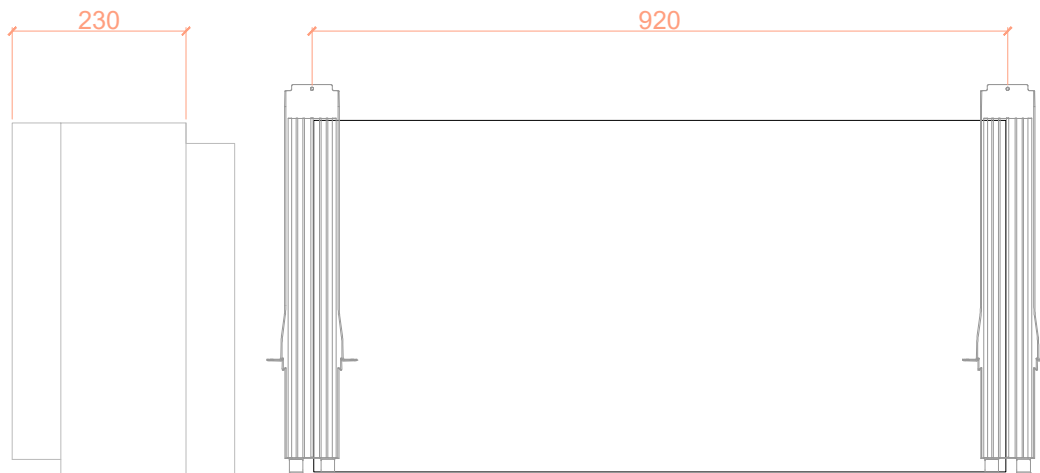
Transition from modules to tiles at the bottom:

As an option, a tinsmith sheet with an EPDM N can be fitted over the tiles on site.



Recommended roof battens: 24x48 or 30x50.

The distance between the tile battens and the MATCH Tile battens is relatively small at 75 mm. If thicker roof battens are selected, the roof battens should therefore be 40x50 or 50x50 instead of 30x60 or 40x60. The grid dimensions and data sheets of the tile used must also be observed!



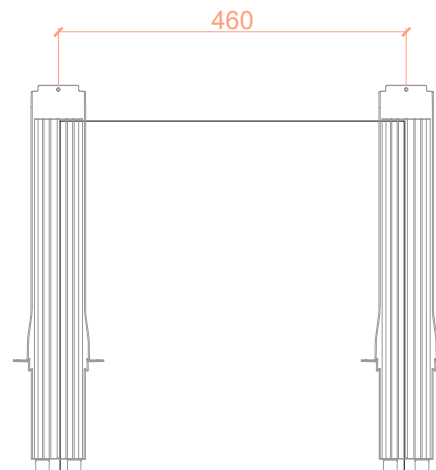
Grid dimensions:

Type F

1 tile: 230mm

2 tiles: 460mm (F2)

4 tiles: 920mm (F4)



Design recommendation:

Keep at least one row of tiles away from the ridge, eaves, verge and various obstacles (chimney, skylight) so that the finishes can be executed as with conventional tiled roofs.

Further design options

First:

The modules can also be laid out up to the ridge and secured with the ridge tile.

Verge, lateral obstructions (chimney, skylight):

The modules can be laid out directly up to the verge or obstruction. On-site terminations required.

Eaves:

The modules can be designed up to the eaves. Does not require any special terminations.

Obstacles above or below the modules:

The modules can be laid out directly up to the obstacle. On-site terminations and fuses required.

Erlus, LEVEL RS

Tile grid dimension in height:

380 - 390mm

Brick grid dimension in width:

approx. 230mm

Kompatible Mass

Grid dimension hook batten (x):

390mm

Distance between tile battens (y):

approx. 75mm

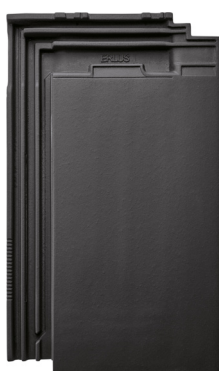
Grid dimension in width:

230mm

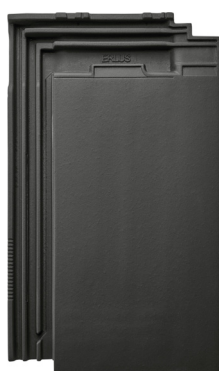
Matching modules (grid dimension)

Module type F2: 460mm (2 tiles)

Module type F4: 920mm (4 tiles)



"sintered gray" recommended for MATCH Tile Mxx-xx totallyblack Fx



"sintered black matt" recommended for MATCH Tile Mxx-xx totallyblack Fx



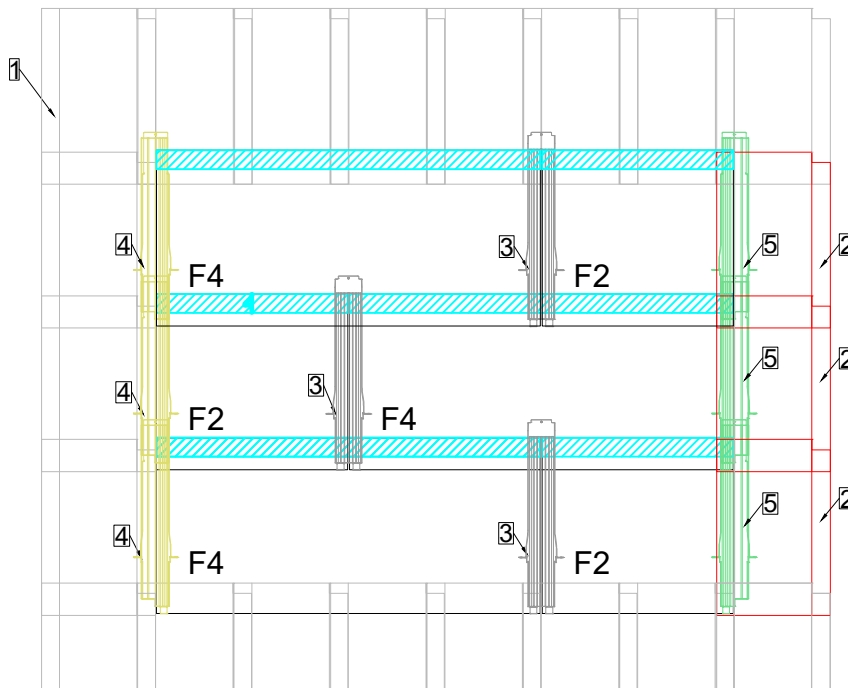
"sintered red" recommended to MATCH Tile Mxx-xx Solarcolor Fx



"red sinter-fired" recommended to MATCH Tile Mxx-xx terracottaM Fx

| | | |
|---|---------------------------------|---------------------------|
| 1 | ERLUS LEVEL RS Tile | Module |
| 2 | ERLUS LEVEL RS Tile double bead | F4 MATCH Tile Mxx-xx F4 N |
| 3 | MATCH Tile hook 2z | F2 MATCH Tile Mxx-xx F2 N |
| 4 | MATCH Tile hook 2l | |
| 5 | MATCH Tile hook 2r | |

Example of offset interpretation



Static design for different requirements

Surface load Suction < 2.4 kN/m² Surface load Pressure < 2.4 kN/m²

These values (kn/m²) are load limits without material safety coefficients

| Type | MATCH Tile Hook 2z | MATCH Tile Hook 2u | MATCH Tile Hook 2l | MATCH Tile Hook 2r |
|-----------|--------------------|--------------------|------------------------------|--------------------|
| Module F2 | 1 | 0 | instead "2z" transition left | 1 Transition right |
| Module F4 | 1 | 0 | instead "2z" transition left | 1 Transition right |

Flat load Suction 2.4 - 3.5 kN/m² Surface load Pressure 2.4 - 8 kN/m²

These values (kn/m²) are load limits without material safety coefficients

| | | | | |
|-----------|---|---|------------------------------|--------------------|
| Module F2 | 1 | 0 | instead "2z" transition left | 1 Transition right |
| Module F4 | 1 | 1 | instead "2z" transition left | 1 Transition right |

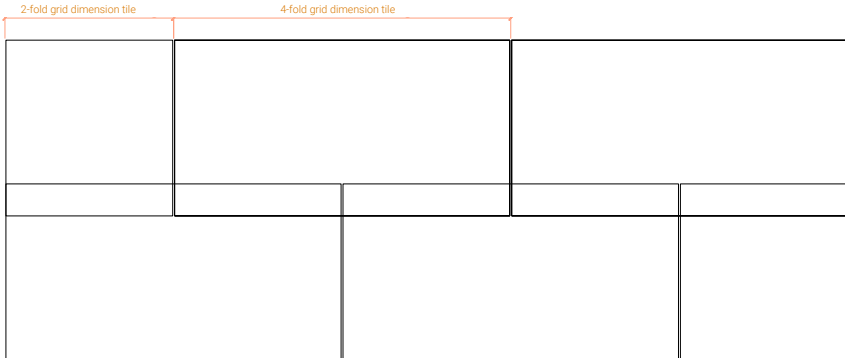
More extreme requirements can be designed on a project-specific basis. It is also recommended to install additional "MATCH Tile hooks 2u" in fillet and edge areas due to possible snow accumulation.

Modules that are not sufficiently secured with an overlying MATCH Tile hook must be secured against wind suction on site (e.g. fix tiles). Tiles under the modules are not secured by the hooks or modules, which is why these must also be secured on site.

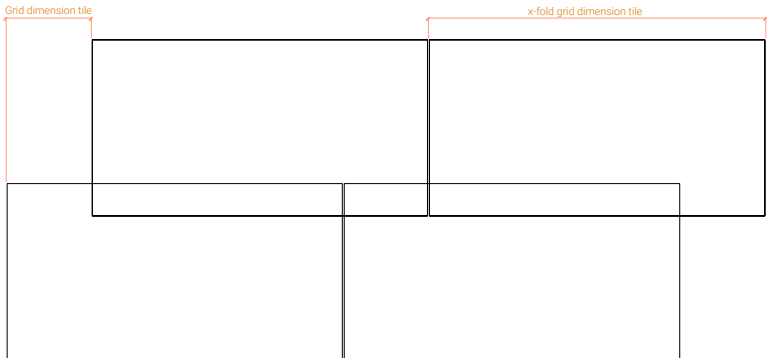
Laying variants

| V24.10 |

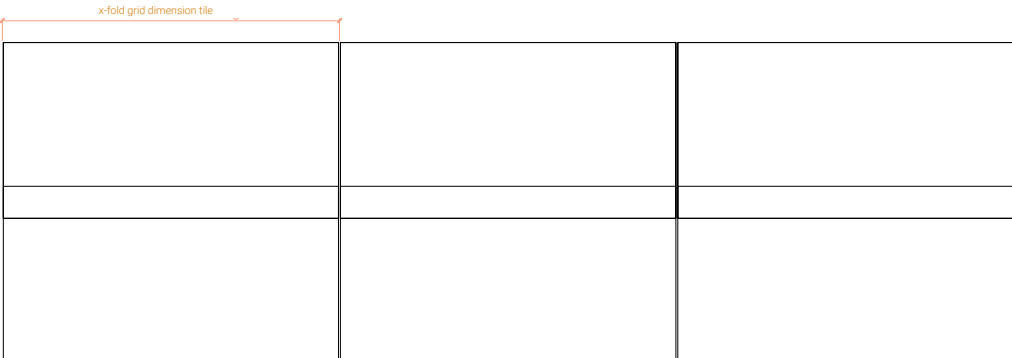
staggered laying



individual laying

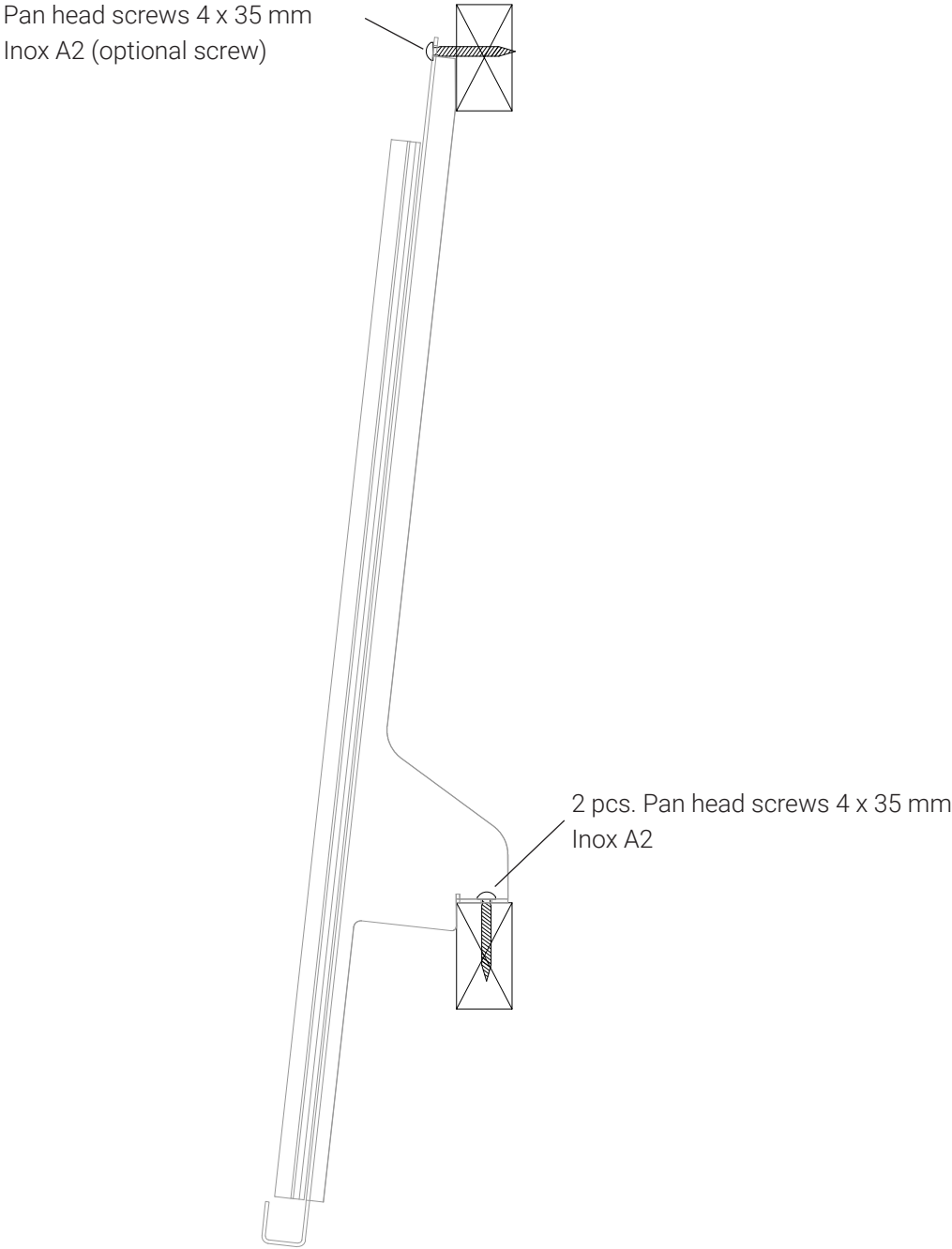


normal laying



MATCH hooks - screw recommendation

| V24.10 |



The MATCH hooks are each fixed to the roof battens with 2 screws. The screw at the top can also be attached; this is particularly recommended in the top row and in the edge areas. We recommend screwing the roof battens and the counter battens together. The structural analysis of the entire roof structure is the responsibility of the contractor.

Underroof

8° to 13° Sub-roof for exceptional loads

14° to 25° Sub-roof for increased loads

from 25° Sub-roof for normal loads

This information applies to the "MATCH Tile in-roof system" and not to the tiles used. It is recommended that the sub-roof is always drained into the gutter.

Rear ventilation

The requirements for rear ventilation are basically the same as for conventional bricks. This corresponds to at least 20 mm of counter-battening.

If the roof is newly constructed and the rear ventilation can be optimized, the following dimensions are recommended:

- Rafter length up to 8 m: 40 mm counter battens
- Rafter length 8 to 12 m: 60 mm counter battens
- Rafter length from 12 m: 80 mm counter battens

The information on rear ventilation refers to the optimum module output and not to the statics of the roof structure. The statics must be checked separately in each case.

Roof battens

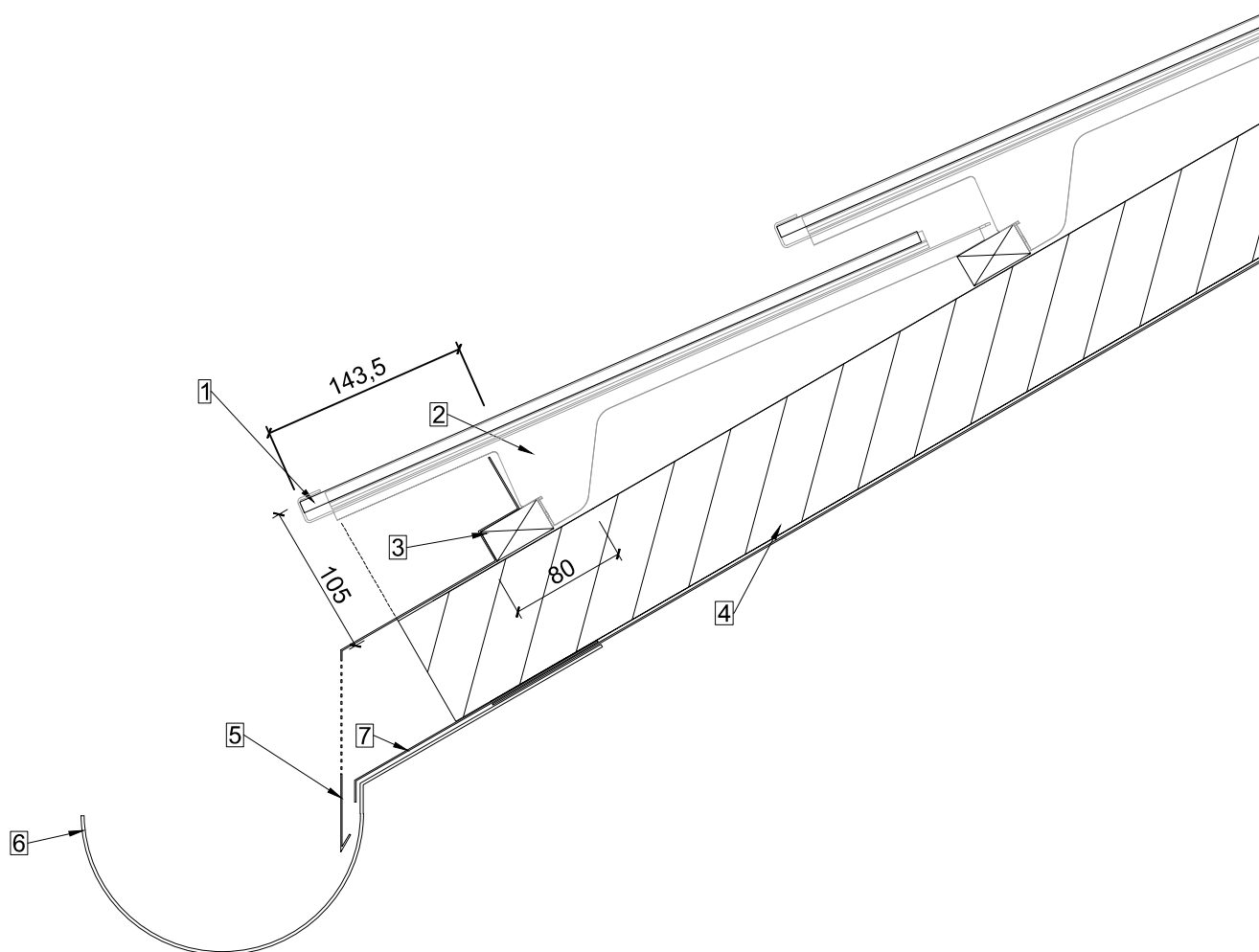
| Counter battens Distance in mm | char. Surface load in kN/m ² | | | | |
|-----------------------------------|---|-----------|-----------|-----------|-----------|
| | < 1.5 | 1.5 - 2.4 | 2.4 - 3.5 | 3.5 - 5.0 | 5.0 - 8.0 |
| 500 | 24x48 | 24x48 | 24x48 | 30x50 | 40x50 |
| 600 | 24x48 | 24x48 | 30x50 | 30x60 | 50x50 |
| 700 | 24x48 | 30x50 | 40x50 | 50x50 | 50x50 |
| 800 | 30x50 | 40x50 | 50x50 | 50x50 | --- |
| 1000 | 30x60 | 50x50 | 50x50 | --- | --- |

More extreme requirements can be designed on a project-specific basis or by matching the counter battens to the grid pattern of the Match Tile hooks.

Modules up to the eaves

| V24.10 |

- 1 MATCH tile module
- 2 MATCH tile hook
- 3 Roof battens
- 4 Counter battens
- 5 Ventilation plate
- 6 Gutter
- 7 Underroof drains into gutter



The MATCH tile modules can also be laid up to the eaves.